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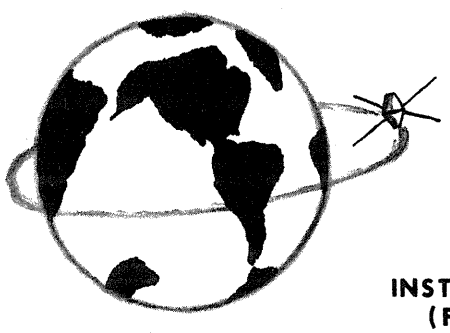
SOLAR-GEOPHYSICAL DATA

Issued: May 1966



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

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INSTITUTE FOR TELECOMMUNICATION SCIENCE AND AERONOMY
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ISSUED

31 MAY 1966

SOLAR-GEOPHYSICAL DATA

CONTENTS

The descriptive text was republished in January 1966. An addendum was given in the introduction of CRPL-FB-260, April 1966.

Solar Radiation Monitoring Satellite

Outstanding X-ray Events observed by the Solar Radiation Satellite, 1965-16D and the Explorer XXX Satellite, 1965-93A, beginning with January 1966, are reported in Section III. These data have been collected under the direction of Ronald K. Oines at Northern State College, Aberdeen, South Dakota, with advice on data reduction from Robert W. Kreplin of the U. S. Naval Research Laboratory. The presentation is therefore similar to that of earlier data reported from the U. S. Naval Research Laboratory. The flux is given in ergs cm^{-2} sec^{-1} assuming that the regions of the solar x-ray spectrum can be approximated, as described in the descriptive text issued January 1966 on pages 14-15 under Solar X-ray Radiation. The 0-3A spectral range is calculated using a 10×10^6 °K "gray" body assumption.

Solar Radio Emission

Beginning with this issue the Outstanding Occurrences observed at discrete frequencies are combined together and are presented in one table in Section IV. The discussions in the descriptive text published in January 1966, with addendum in CRPL-FB-260 published in April, still apply for each individual reporter.

The table which follows on page ii gives the key for identifying type of event and indicates which frequencies have been or may be expected to report each type of event. The second column lists the URANA or URANE synoptic code that is used by the International Ursigram and World Days Service for daily telegraphic interchange of data. The name code used to identify each reporting station is included at the bottom the table.

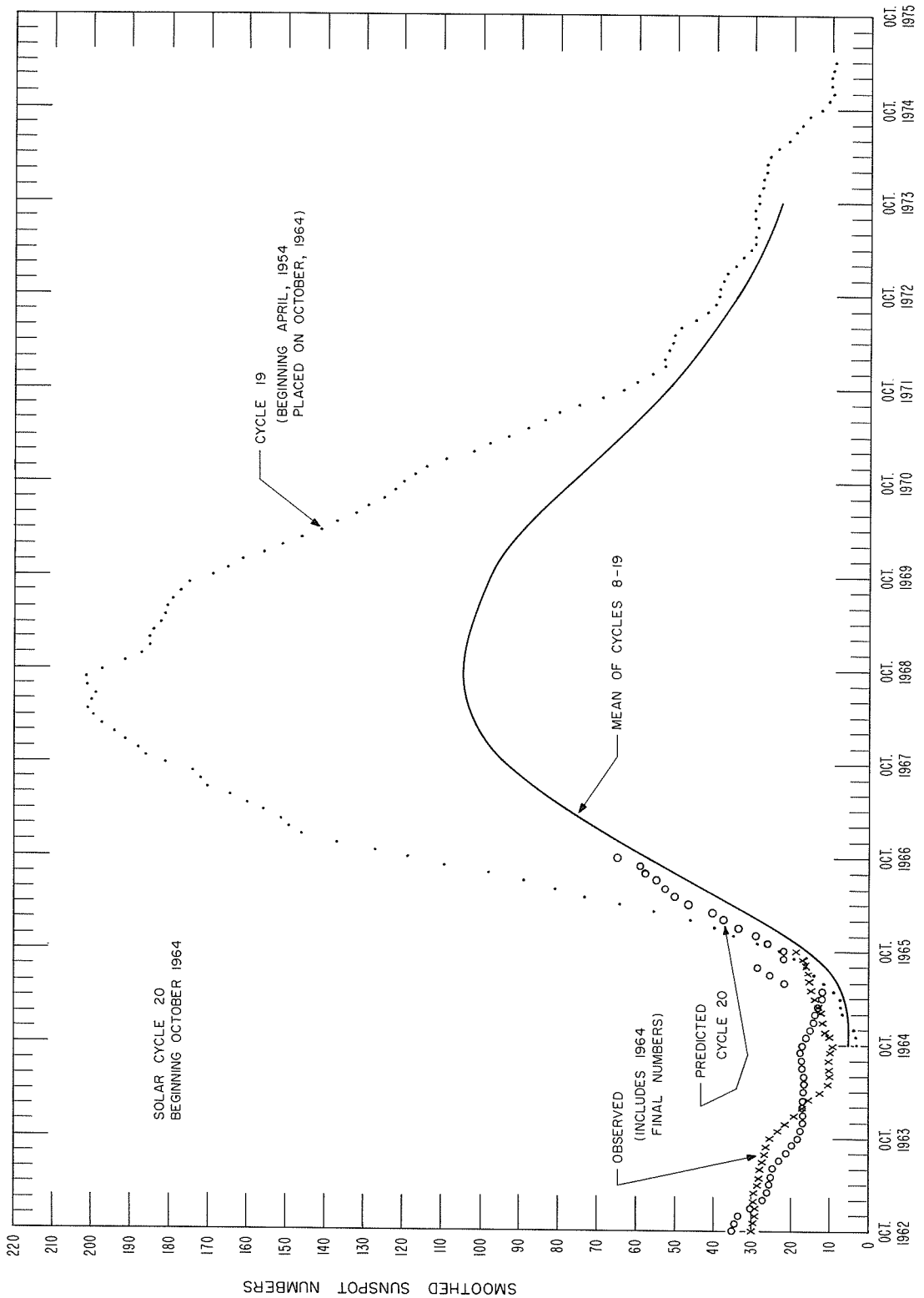
East-West Solar Scans

East-West solar scans from the 43 cm solar radio array at Fleurs, Australia, are presented in Section IV. These records are obtained in a manner similar to that for the 21 cm observations. Changes are being made in the installation at both wave-lengths and will be more fully discussed in a later edition of "Solar-Geophysical Data".

NUMBER CODE FOR TYPE OF SOLAR RADIO EMISSION EVENT

	Code	IUWDS URAN-Form	Mc/s											
			10700	8800	2800	2695	2690	1415	960	606	328	223	108/107	18
Simple 1	1	E1	x	x	x	x	x	x	x	x	x			
Simple 1F	2	E1			x									
Simple 2	3	E2	x	x	x	x	x	x	x	x	x			
Simple 2F	4	E2			x									
Simple	5								x		x			
Minor	6	A4										x	x	x
Minor +	7											x	x	
Simple 3	20	E3	x	x	x	x	x	x	x	x	x			
Simple 3A	21	E3			x									
Simple 3F	22	E3			x									
Simple 3AF	23	E3			x									
Rise	24	A1	x		x		x		x		x	x	x	
Rise A	25				x									
Fall	26				x									
Rise and Fall	27		x	x		x	x	x	x	x	x			
Precursor	28	E9		x	x									
Post Burst Increase	29	E4	x	x	x	x	x	x	x	x	x			
Post Burst Increase A	30	E4			x									
Post Burst Decrease	31	E5			x									
Fluctuations	40	E7	x	x	x	x	x	x	x	x	x			
Group of Bursts	41	A3,E8	x	x	x	x	x	x	x	x	x	x	x	
Series of Bursts	42	A2										x	x	x
Onset of Noise Storm	43	A7	x	x		x	x	x	x	x	x	x	x	x
Noise Storm in Progress	44	A6										x	x	x
Complex	45	E6	x	x	x	x	x	x	x	x	x			
Complex F	46	E6	x	x	x	x	x	x	x	x	x			
Great Burst	47	E6	x	x	x	x	x	x	x	x	x			
Major	48	A8										x	x	
Major +	49	A9										x	x	

Code	Station	Frequencies Reported, Mc/s
BOES	Boeing - Seattle	223
BOUL	ESSA - Boulder	108
HALE	Haleakala - Hawaii	107
OTTA	ARO-Ottawa, DRAO-Penticton	2800, 2700
PENN	Pennsylvania State University	10700, 2690, 960, 328
SGMR	AFCRL - Sagamore Hill	8800, 2695, 1415, 606



PREDICTED AND OBSERVED SUNSPOT NUMBERS

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

	1965								1966			
Day	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	0	9	18	0	20	52	29	13	18	7	25	64
2	14	24	20	0	20	63	28	8	17	9	11	58
3	8	36	19	15	21	60	20	8	16	20	11	74
4	8	38	17	14	22	62	13	8	15	17	18	74
5	7	34	8	0	22	55	13	8	8	17	12	55
6	0	30	17	16	19	39	29	8	7	17	14	59
7	11	32	22	7	23	27	40	8	7	16	10	70
8	15	24	29	31	22	7	46	15	13	13	9	65
9	9	23	33	12	18	8	38	7	13	10	15	47
10	0	9	29	14	15	13	41	7	7	11	13	37
11	0	7	35	16	19	8	40	0	8	14	10	25
12	15	0	30	13	17	9	26	0	0	8	0	27
13	21	0	23	8	17	8	17	14	17	16	0	24
14	15	14	12	7	8	7	16	0	30	12	0	29
15	30	0	11	0	8	0	10	14	36	16	9	29
16	36	0	8	0	16	7	9	22	57	13	26	35
17	55	12	7	0	8	0	7	21	50	19	44	40
18	72	25	0	7	9	0	0	20	64	24	53	40
19	75	16	0	7	7	10	0	18	68	32	60	24
20	72	21	0	7	0	12	0	15	63	39	54	37
21	70	19	0	7	0	15	0	10	52	41	49	40
22	62	14	0	0	0	26	7	11	44	50	52	56
23	50	7	0	0	11	23	0	9	38	55	40	69
24	43	7	0	8	17	16	7	8	41	42	31	58
25	30	7	7	0	13	24	0	12	27	37	23	56
26	22	7	0	8	17	17	7	23	19	36	18	54
27	7	8	7	14	24	17	0	29	16	35	10	40
28	0	23	0	12	23	9	8	64	14	31	12	40
29	0	18	0	16	37	8	8	64	19		35	48
30	0	14	9	15	50	8	15	44	28		42	52
31	0		7	22		14		38	15		52	
Mean:	24.1	15.9	11.9	8.9	16.8	20.1	15.8	17.0	26.7	23.5	24.5	47.5

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

AMERICAN, R_A

	1965								1966			
Day	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	0	14	12	0	15	33	29	10	25	0	11	32
2	3	20	9	0	17	39	27	10	21	12	12	37
3	4	29	6	7	19	50	20	10	19	14	14	34
4	1	39	6	2	19	43	11	9	13	16	16	49
5	1	33	3	0	16	37	1	10	7	17	15	40
6	0	33	13	0	21	26	29	12	1	15	14	47
7	9	34	22	7	21	16	43	9	0	14	10	49
8	10	21	20	6	19	5	34	2	1	13	10	55
9	4	13	22	9	19	10	38	3	0	12	16	36
10	0	2	19	10	18	11	43	0	0	14	15	26
11	1	0	20	10	17	11	38	0	0	15	7	19
12	7	0	25	14	21	9	24	0	0	11	0	22
13	10	0	15	1	18	10	15	0	19	12	3	16
14	4	0	14	1	12	2	16	0	30	14	1	22
15	29	0	11	0	11	0	14	18	37	13	15	31
16	37	0	11	0	10	0	12	21	31	16	21	28
17	57	10	4	0	5	0	0	18	43	13	43	28
18	55	17	0	3	4	0	0	19	43	25	46	29
19	65	15	0	1	2	8	0	16	55	24	46	16
20	55	13	0	2	1	12	0	0	55	33	41	42
21	48	11	0	0	0	14	0	7	41	36	32	38
22	43	5	0	0	0	22	0	8	34	43	29	42
23	39	0	0	0	14	20	3	10	36	55	19	58
24	30	0	0	0	14	21	4	6	31	47	17	51
25	23	0	0	0	12	16	0	17	18	47	16	47
26	14	1	0	3	15	11	0	20	14	47	10	34
27	1	6	0	16	13	12	0	35	15	32	0	22
28	0	6	0	12	21	11	6	44	14	28	12	22
29	0	8	1	3	35	11	9	55	20		36	33
30	0	13	5	12	41	11	10	47	21		41	33
31	0		0	19		12		28	3		32	
Mean:	17.7	11.4	7.7	4.5	15.0	15.6	14.2	14.3	20.9	22.8	19.4	34.6

DAILY SOLAR FLUX AT 2800 Mc/s

Ic

OTTAWA ARO

OBSERVED FLUX,S

Day	1965 May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.	Mar.	Apr.
1	71.1	70.8	76.0	72.0	75.4	92.0	78.8	75.4	82.0	79.9	81.2	106.9
2	70.8	73.7	75.6	73.0	75.9	93.2	79.5	75.0	78.9	79.2	78.0	106.4
3	70.7	75.2	76.2	77.3	76.6	96.0	81.1	74.9	78.5	79.8	77.1	102.1
4	69.7	78.2	75.9	78.4	76.7	97.5	79.8	74.5	80.5	81.3	76.7	102.5
5	69.0	78.3	75.4	76.3	78.7	91.6	78.0	75.4	80.0	82.9	76.0	101.9
6	70.4	78.4	78.5	78.8	77.1	85.2	80.7	76.2	79.7	84.5	76.6	104.0
7	71.4	77.2	81.5	79.6	77.7	83.6	85.2	75.3	80.9	85.1	77.4	102.6
8	72.0	78.4	81.0	77.3	78.6	82.8	80.4	76.7	80.6	84.6	77.5	107.0
9	72.4	79.0	81.4	77.6	76.1	83.3	82.0	75.0	80.1	85.2	79.6	100.0
10	72.1	78.3	80.3	76.1	75.6	80.4	84.1	75.3	79.8	86.0	79.6	94.4
11	71.1	76.5	79.9	76.7	75.7	76.0	84.2	75.6	80.9	85.8	79.0	93.5
12	71.8	76.0	78.2	75.9	75.3	74.8	80.8	75.9	84.0	85.4	79.3	94.4
13	74.4	76.8	76.3	74.8	75.0	75.8	77.3	74.0	87.2	86.1	81.0	92.6
14	75.4	76.1	74.7	73.7	75.2	74.7	76.0	74.7	93.2	86.1	82.3	90.5
15	80.5	76.7	74.5	72.5	74.9	73.8	76.5	76.8	101.9	85.4	88.1	95.7
16	86.3	76.0	72.1	73.8	73.7	72.3	74.0	77.6	106.0	84.7	93.8	92.6
17	91.1	76.3	71.9	72.4	73.8	72.5	74.3	78.4	101.7	84.1	106.2	94.5
18	90.4	78.2	71.9	73.2	73.0	72.2	75.0	78.4	104.8	84.1	110.6	92.1
19	92.4	74.9	72.5	74.3	72.8	71.8	73.4	76.8	108.6	83.0	115.5	88.2
20	94.7	76.0	73.0	73.7	72.8	72.7	72.7	74.5	102.3	84.7	111.9	92.6
21	92.8	75.9	72.6	73.6	72.5	73.3	72.2	74.1	98.9	87.6	121.2	90.8
22	92.2	78.2	71.5	72.9	71.2	76.2	71.8	72.3	94.7	87.9	105.8	92.4
23	86.2	80.2	70.9	73.0	71.8	78.7	71.3	72.7	93.5	84.5	96.8	97.8
24	85.1	78.1	70.1	72.7	76.1	76.3	71.2	71.2	91.8	83.7	93.5	102.5
25	81.0	79.3	70.0	72.2	75.8	77.9	70.6	72.1	88.1	80.9	91.6	102.6
26	77.9	78.7	69.4	72.0	77.0	78.2	71.8	76.9	85.4	84.8	85.0	100.0
27	76.0	77.7	70.0	74.5	78.4	78.0	74.1	83.7	82.4	84.8	83.4	95.6
28	74.5	76.7	70.6	73.2	80.5	77.2	77.0	83.8	80.5	85.7	87.9	93.6
29	73.7	76.4	71.1	74.2	87.3	76.7	73.9	84.7	80.7		96.4	93.1
30	74.0	77.0	71.1	75.0	89.0	76.2	75.1	81.9	78.7		99.2	91.9
31	71.6		70.7	74.9		78.1		80.8	77.7		110.6	
Mean:	78.1	77.0	74.3	74.8	76.3	79.6	76.8	76.5	87.9	84.2	90.3	97.2

FLUX ADJUSTED TO 1 A.U., Sa

Day	1965 May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.	Mar.	Apr.
1	72.2	72.8	78.6	74.2	76.8	92.2	77.6	73.3	79.3	77.6	79.7	106.8
2	71.9	75.8	78.2	75.2	77.3	93.3	78.2	72.9	76.3	76.9	76.7	106.3
3	71.9	77.4	78.8	79.6	77.9	96.1	79.8	72.7	75.9	77.5	75.8	102.1
4	70.9	80.5	78.5	80.7	78.0	97.5	78.4	72.3	77.8	79.0	75.5	102.6
5	70.2	80.6	78.0	78.5	80.0	91.6	76.7	73.2	77.4	80.6	74.8	102.0
6	71.7	80.7	81.2	81.1	78.3	85.1	79.2	74.0	77.1	82.1	75.5	104.2
7	72.7	79.5	84.3	81.8	78.9	83.5	83.7	73.0	78.2	82.8	76.2	102.8
8	73.4	80.7	83.8	79.5	79.8	82.6	78.9	74.4	77.9	82.3	76.4	107.3
9	73.8	81.4	84.1	79.8	77.2	83.0	80.4	72.7	77.4	82.9	78.5	100.3
10	73.5	80.7	83.0	78.2	76.7	80.1	82.4	73.0	77.2	83.8	78.6	94.8
11	72.5	78.9	82.6	78.8	76.7	75.7	82.5	73.2	78.2	83.6	78.0	93.9
12	73.3	78.4	80.8	77.9	76.3	74.5	79.1	73.5	81.2	83.2	78.3	94.8
13	76.0	79.2	78.8	76.7	75.9	75.4	75.7	71.7	84.3	83.9	80.0	93.1
14	77.0	78.5	77.2	75.6	76.1	74.3	74.4	72.4	90.1	83.9	81.4	91.0
15	82.3	79.1	77.0	74.4	75.7	73.3	74.8	74.4	98.5	83.3	87.1	96.3
16	88.3	78.4	74.5	75.6	74.5	71.8	72.4	75.1	102.6	82.7	92.9	93.2
17	93.2	78.7	74.3	74.2	74.5	72.0	72.6	75.9	98.4	82.1	105.1	95.2
18	92.6	80.8	74.3	75.0	73.7	71.6	73.3	75.9	101.4	82.2	109.6	92.9
19	94.6	77.4	74.9	76.1	73.4	71.2	71.6	74.3	105.1	81.1	114.6	89.0
20	97.0	78.5	75.4	75.5	73.4	72.0	70.9	72.1	99.0	82.8	111.0	93.5
21	95.1	78.4	75.0	75.3	73.1	72.6	70.5	71.7	95.7	85.7	120.3	91.7
22	94.5	80.7	73.9	74.6	71.7	75.4	70.0	70.0	91.8	86.0	105.1	93.4
23	88.4	82.8	73.2	74.6	72.3	77.9	69.5	70.3	90.6	82.7	96.2	98.8
24	87.3	80.7	72.4	74.3	76.6	75.5	69.3	68.8	88.9	81.9	92.9	103.7
25	83.1	81.9	72.3	73.8	76.2	77.0	68.8	69.7	85.4	79.3	91.1	103.8
26	80.0	81.4	71.7	73.5	77.4	77.3	69.9	74.4	82.7	83.1	84.7	101.3
27	78.1	80.3	72.3	76.0	78.7	77.0	72.1	80.9	79.9	83.2	83.1	96.0
28	76.5	79.3	72.9	74.7	80.8	76.2	74.9	81.0	78.1	84.1	87.6	94.9
29	75.8	79.0	73.4	75.7	87.6	75.6	71.9	81.9	78.3		96.1	94.5
30	76.1	79.6	73.4	76.4	89.3	75.1	73.0	79.2	76.3		99.0	93.3
31	73.6		73.0	76.3		76.9		78.1	75.4		110.4	
Mean:	79.9	79.4	76.8	76.6	77.2	79.1	75.1	74.1	85.0	82.1	89.4	97.8

CALCIUM PLAGE AND SUNSPOT REGIONS

APRIL 1966

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	
March												
30.8	S15	8244	New	(100)	(2.0)	b - d	1	≤ 4/4	≥ 1			
31.2	N19	8241	New	(300)	(2.0)	b - d	1	≤ 4/2	≥ 1			
31.3	S24	8245	New	(200)	(2.5)	b - d	1	≤ 4/4	≥ 2			
31.7	N38	8246	New	(300)	(2.5)	b - d	1	≤ 4/4	≥ 2			
April												
1.7	N22	8226 (2)	8184	(400)	(1.0)	ℓ / d	2	< 3/28	> 4			
1.8	S24	8231	New	(100)	(1.0)	b - d	1	3/30	2			
2.6	S26	8232	New	(200)	(2.0)	b - d	1	3/30	2			
2.7	N30	8238	New	200	1.0	b ∧ ℓ	1	3/31	9			
3.8	S21	8247	New	(200)	(1.5)	b - d	1	4/4	2			
3.8	N27	8223	8191	(5400)	(3.0)	ℓ ⌒ ℓ	2	3/27	15	1010	50	ℓ ∧ ℓ
5.2	N30	8248	New	400	2.5	b ⌒ d	1	4/4	8	(10)	(2)	b / d
5.4	N40	8234	8188	300	1.0	ℓ - d	3	3/30	9			
6.6	S26	8242	New	300	1.5	b ⌒ d	1	≤ 4/2	≥ 8	(10)	(2)	b - d
6.7	N20	8240	New	1500	2.5	ℓ ⌒ ℓ	1	3/31	14	30	26	b ∧ ℓ
8.1	S03	8256	New	(100)	(1.5)	b - d	1	4/9	2			
10.4	N19	8253	New	(200)	(1.0)	b - d	1	4/7	9			
11.1	N25	8251	8193	900	2.0	ℓ ⌒ ℓ	4	4/5	12			
12.1	N30	8254	8204	900	2.5	ℓ ⌒ ℓ	2	4/5	13			
13.0	S26	8260	New	100	1.0	b - d	1	4/11	2			
13.0	S33	8267 (1)	New	(100)	(1.5)	b - d	1	4/17	1			
13.1	S20	8266 (1)	New	(100)	(1.0)	b - d	1	4/17	1			
13.1	N10	8258 (1)	New	(100)	(1.5)	b - d	1	4/10	1			
13.5	N29	8264	New	(300)	(1.5)	b - d	1	4/15	3			
14.8	S22	8263 (1)	New	(100)	(1.5)	b - d	1	4/12	1			
15.6	S22	8268 (1)	New	(200)	(1.0)	b - d	1	4/17	1			
18.4	S23	8265 (1)	New	(100)	(2.0)	b - d	1	4/16	1			
18.6	N22	8262	8207	7500	3.0	ℓ ⌒ ℓ	2&3	4/11	15	130	27	ℓ ∧ ℓ
19.1	N03	8270 (1)	New	200	1.5	b - d	1	4/18	1			
20.7	N29	8275	New	(400)	(3.5)	b / d	1	4/22	5	(20)	(19)	b / ℓ
22.3	N19	8276	New	(300)	(1.5)	b - ℓ	1	4/24	5			
23.2	N14	8269	New	(300)	(2.0)	b - d	1	4/17	2			
24.0	N19	8272 (3)	New	(1400)	(2.5)	b / ℓ	1	4/20	10	90	26	b ∧ ℓ
26.8	N25	8273	New	2200	2.5	ℓ ∨ ℓ	1	4/20	13	(10)	(3)	b - d
										10	6	ℓ ∧ d
26.9	N41	8281 (1)	New	(200)	(2.0)	b - d	1	4/28	1			
27.9	N24	8274	New	(800)	(1.5)	ℓ - ℓ	1	4/21	13	(10)	(3)	b - d
28.0	S27	8280 (1)	New	(400)	(2.0)	b - d	1	4/25	1			
30.0	S26	8277 (1)	New	(100)	(1.5)	b - d	1	4/24	1			
30.1	N30	8278 (4)	8238	1500	3.0	ℓ ∧ ℓ	2	4/24	12			

(1) These small and ephemeral plages were seen on the disk for only one day.
(2) Region 8226 contains weak remnants of old plage 8184.
(3) Region 8272 has developed in the same position as the short-lived regions 8218 and 8227, of the previous rotation.
(4) Part of region 8278 is new plage which develops in the region after May 1.

No calcium plage observations were secured at the McMath-Hulbert Observatory on April 1, 3, 19, 23, 27, 30, 1966.

APRIL 1966

April 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	2355	N26	E19	βγ	16004
		S27	E56	βp	16006
2	1750	N26	E08	γ	16004
		S27	E46	βp	16006
3	2320	N26	W09	βγ	16004
		N28	W25	βp	16007
		N20	E32	βp	16008
4	1700	N26	W17	βγ	16004
		N28	W35	β	16007
		N37	W61	β	16009
		N20	E24	βp	16008
6	0010	N26	W33	βγ	16004
		N28	W49	αf	16007
		N29	W09	βp	16010
		N19	E08	βp	16008
6	1650	N26	W43	βγ	16004
		N29	W62	βp	16007
		N29	W19	βp	16010
		N20	W00	βf	16008
7	2345	N25	W59	βp	16004
		N28	W78	βf	16007
		N29	W37	β	16010
		N20	W17	βp	16008
8	1655	N25	W68	βp	16004
		N30	W45	βp	16010
		N20	W27	βγ	16008
9	No Obs.				
10	1625	N21	W52	βγ	16008
11-12	No Obs.				
13	1910	N21	E62	βp	16011
14	1615	N21	E52	βγ	16011
		N19	E38	αp	16012
16	0015	N21	E34	βγ	16011
		N18	E20	β	16012
16	1745	N21	E25	βγ	16011
		N21	E15	αf	16013
17-28	No Obs.				
29	1715	N28	E08	β	16019
		N21	E52	αp	16020

FINAL CORONAL LINE EMISSION INDICES

JANUARY 1966

CMP Jan 1966	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1
1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2	x	x	x	x	x	x	x	x	4	6	9	16	14	19	13	17
3	x	x	x	x	x	x	x	x	3	5	18	27	13	18	18	31
4	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5	32	40	x	x	10	12	x	x	x	x	x	x	x	x	x	x
6	9	20	7	8	4	5	9	10	0	0	11	15	10	19	13	15
7	27	46	x	x	13	15	x	x	0	0	x	x	14	23	x	x
8	x	x	x	x	x	x	x	x	0	0	14	17	12	26	10	15
9	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
10	35	103	18	44	0	0	15	17	8	9	13	15	48	83	17	22
11	37	86	23	47	5	9	17	20	11	16	29	40	52	104	20	31
12	24	43	15	29	1	4	13	17	14	19	19	30	46	91	18	30
13	11	17	11	21	0	0	14	17	x	x	x	x	x	x	x	x
14	14	26	x	x	0	0	x	x	x	x	x	x	x	x	x	x
15	x	x	x	x	x	x	x	x	1	7	20	25	6	12	22	25
16	10	17	19	24	1	5	15	17	x	x	x	x	x	x	x	x
17	9	12	19	25	3	5	17	20	0	0	15	23	26	41	29	52
18	x	x	x	x	x	x	x	x	2	7	12	15	41	57	28	55
19	52	81	x	x	17	24	x	x	2	4	12	15	81	119	36	65
20	39	75	22	29	2	12	11	14	1	5	x	x	72	122	17	23
21	61	91	x	x	9	36	x	x	1	6	8	12	54	69	17	20
22	30	44	10	16	1	5	13	20	2	9	10	12	24	39	16	18
23	52	63	x	x	x	x	x	x	0	0	14	22	7	10	15	20
24	27	30	15	20	10	11	14	20	14	20	18	35	25	41	14	26
25	12	14	25	33	17	20	22	36	x	x	x	x	x	x	x	x
26	15	20	24	40	18	39	17	28	42	67	21	42	16	18	11	15
27	x	x	x	x	x	x	x	x	0	0	15	24	11	24	19	24
28	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
29	10	18	12	19	6	14	21	25	17	24	4	8	5	10	7	15
30	x	x	x	x	x	x	x	x	12	16	13	19	19	23	12	19
31	15	31	12	14	4	6	23	25	x	x	x	x	x	x	x	x

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

FINAL CORONAL LINE EMISSION INDICES

FEBRUARY 1966

CMP Feb 1966	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1
1	14	25	x	x	3	6	12	23	x	x	x	x	x	x	x	x
2	17	31	x	x	5	7	x	x	7	9	25	36	15	24	18	24
3	22	44	17	27	3	4	15	20	x	x	x	x	x	x	x	x
4	30	67	14	32	2	5	12	16	x	x	x	x	x	x	x	x
5	35	63	10	15	1	5	x	x	0	0	39	53	65	97	38	56
6	18	30	20	25	0	0	21	25	0	0	6	8	42	70	14	30
7	68	92	32	50	13	16	11	19	0	0	16	22	65	122	18	25
8	x	x	x	x	x	x	x	x	1	8	17	23	45	75	28	33
9	46	68	21	35	16	18	19	38	0	0	x	x	34	47	27	44
10	8	10	14	16	5	15	23	25	0	3	11	16	15	18	13	16
11	6	9	19	31	4	9	23	25	x	x	47	60	x	x	39	56
12	18	20	17	24	6	6	14	18	9	12	0	0	17	23	21	30
13	21	25	20	26	10	14	18	21	0	0	43	49	22	32	46	54
14	x	x	x	x	x	x	x	x	7	13	7	10	42	56	9	13
15	x	x	x	x	x	x	x	x	0	0	22	28	91	138	32	47
16	55	90	27	60	10	19	18	22	9	10	15	18	91	139	19	27
17	x	x	x	x	x	x	x	x	21	64	6	13	141	174	8	17
18	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
19	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20	36	56	11	22	3	6	9	14	x	x	x	x	x	x	x	x
21	24	38	23	52	18	85	18	40	7	15	18	24	84	179*	60	87
22	14	18	32	73	21	69	34	49	7	17	12	18	85	165*	50	96
23	6	12	14	32	25	64	25	51	x	x	x	x	x	x	x	x
24	4	11	22	41	30	100	23	44	x	x	x	x	x	x	x	x
25	x	x	22	28	x	x	x	x	6	18	12	20	22	28	30	43
26	12	15	6	13	13	25	8	16	8	15	9	10	8	47	11	18
27	3	10	x	x	0	0	52	73	13	15	8	10	17	26	10	12
28	13	21	9	14	11	15	12	17	5	8	13	17	7	12	12	16

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

FINAL 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	6	7	14	15	15	19	10	15
3	11	20	x	x	6	11	8	12	7	8	19	25	20	28	14	21
4	x	x	x	x	x	x	x	x	7	8	15	19	29	47	16	29
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	11	13	16	24	51	67	20	27
8	56	127	25	38	1	9	36	44	x	x	16	18	38	50	11	13
9	x	x	x	x	x	x	x	x	11	12	25	29	33	44	24	28
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	7	10	18	21	43	56	15	19
12	16	20	x	x	5	11	12	16	x	x	x	x	x	x	x	x
13	28	33	15	26	22	24	14	18	15	18	14	16	44	58	10	13
14	25	32	11	30	4	10	15	17	9	15	12	15	56	96	12	13
15	57	92	18	42	7	23	12	19	7	14	16	25	51	62	20	33
16	52	73	11	13	12	25	12	14	6	8	x	x	47	64	x	x
17	48	70	19	36	12	19	11	14	x	x	x	x	x	x	x	x
18	37	45	11	13	10	14	13	15	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	14	17	x	x	44	66	x	x
21	78	105	23	51	16	23	9	16	x	x	x	x	x	x	x	x
22	66	112	29	56	22	31	13	14	17	26	2	15	79	129	21	55
23	65	88	22	42	13	16	11	12	14	20	0	0	39	50	4	19
24	48	66	14	28	8	12	10	14	2	12	16	20	23	31	21	29
25	29	34	15	21	10	11	20	28	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	25	26	17	22	13	14	19	25	x	x	x	x	x	x	x	x
28	23	30	17	22	8	9	18	20	x	x	x	x	x	x	x	x
29	8	15	6	35	7	14	21	27	4	9	17	27	2	10	14	16
30	16	18	x	x	7	8	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

PROVISIONAL CORONAL LINE EMISSION INDICES

APRIL 1966

CMP April 1966	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1
1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2	27	44	37	125	2	13	21	24	3a	8a	13a	19a	51a	94a	23a	43a
3	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4	x	x	x	x	x	x	x	x	3	10	x	x	68	128	x	x
5	x	x	21	23	x	x	23	30	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	21	34	21	30	0	0	21	29	x	x	x	x	x	x	x	x
8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
9	x	x	x	x	x	x	x	x	0	0	x	x	36	56	x	x
10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
11	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
12	60	108	37	84	10	34	22	29	x	x	x	x	x	x	x	x
13	32	57	41	87	1	8	38	43	3	5	19	32	45	72	14	26
14	15	22	27	76	2	7	15	17	x	x	x	x	x	x	x	x
15	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
16	32a	69a	14a	23a	0a	0a	18a	24a	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	72	92	x	x	4	15	x	x	x	x	x	x	x	x	x	x
19	x	x	x	x	x	x	x	x	x	x	18a	24a	x	x	34a	50a
20	x	x	x	x	x	x	x	x	4	7	14	25	63	96	31	47
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	x	x	x	x	x	x	x	x
23	13	25	x	x	0	0	x	x	x	x	x	x	x	x	x	x
24	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
25	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	77	138	35	49	9	18	26	34	0a	0a	56a	70a	63a	121a	59a	117a
28	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
29	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
30	x	x	x	x	x	x	x	x	3a	16a	32a	43a	47a	78a	54a	95a

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

SOLAR FLARES

APRIL 1966.

OBSERVATORY	OBSERVED UT DATE 1966 APR	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
HALE	01	0147	0158	0152	N29	E24		8223		11	SF	1	C	0152	.26	.30			
HALE	01	0210	0217	0212	N27	E29		8223		7	SN	1	C	0212	.41	.60			F
HALE	01	0233	0303	0234	N24	E27		8223		30	SN	1	C	0234	.36	.50			
CAPS	01	0711	0729		N25	E31		8223		18	SN	3		0716	1.30	1.70		182	GEL
MANI	01	0711	0737	0717	N26	E32		8223		26	1N	2		0717	2.40	3.12			
CATA	01	0712E	0725D	0713	N28	E33		8223		13D	SN		C	0713	1.35	2.00		180	
ZURI	01	0717E	0723	0719	N28	E28		8223		6D	SF		S	0719	1.47	2.10			
WEND	01	0959E	1005D		N23	E21		8223		6D	SN								
WEND	01	1103E	1150D		N25	E27		8223		47D	1N		V		3.09				
WEND	01	1242E	1255D		N26	E27		8223		13D	SN								
WEND	01	1332E	1348D		N27	E24		8223		16D	SN								
WEND	01	1412	1451		N25	E21		8223		39	1N		V		4.13				
SACP	01	1430	1444	1432	N25	E25		8223		14	SN		C		.51	.56			
ZURI	01	1432	1436	1433	N26	E27		8223		4	1N		S	1433	2.53	3.50			
WEND	01	1553	1622D		N25	E19		8223		29D	1N		V		4.13				
WEND	01	1629E	1653D		N25	E22		8223		24D	1N		V		3.09				
LOCK	01	1630	1710	1639	N29	E21		8223		40	SN		C	1639	.90	1.20		10	
HALE	01	1632E	1732	1642	N29	E23		8223		60D	SN	2	P	1642	1.03	1.40			F
SACP	01	1634	1705	1639	N27	E22		8223		31	SB		C		1.70	1.89			
KANZ	01	1640E	1707D		N25	E21		8223		27D	1F								
LOCK	01	1735	1840	1800	N29	E21		8223		65	1N		C	1800	2.00	2.60		20	
SACP	01	1737	1900	1750	N28	E24		8223		83	2B		C		7.85	8.88			
HALE	01	1743E	1934	1750	N29	E23		8223		111D	2B	2	P	1750	4.33	5.70			FI
LOCK	01	1920	1928	1922	N29	E21		8223		8	SN		C	1922	.60	.80		10	
CLMX	01	1921	1924	1922	N26	E21		8223		3	SB		C	1922	.60	.66			
SACP	01	1921	1932	1922	N29	E20		8223		11	SN		C		1.36	1.52			
HALE	01	1921	1939	1922	N29	E21		8223		18	SN	2	C	1922	.72	.90			F
LOCK	02	0058	0115D	0107	N30	E20		8223		17D	1N		C	0107	1.80	2.30		20	
HALE	02	0058	0300	0102	N27	E18		8223		122	1B	2	C	0102	2.06	2.60			FI
SACP	02	0059	0117D	0103	N27	E17		8223		18D	2B		P		6.12	6.64			
MITK	02	0100	0135	0102	N27	E16		8223		35	1F		C	0102	1.96	2.50			E
MANI	02	0100	0139	0110	N26	E20		8223		39	1B	2		0110	3.76	4.50			
MANI	02	0245	0254	0248	N27	E13		8223		9	SF	2		0248	.35	.40			
HALE	02	0246	0311	0247	N28	E13		8223		25	SN	2	C	0247	.46	.60			F
KANZ	02	0718E	0743D		N26	E17		8223		25D	1F								F
MANI	02	0718	0749	0724	N27	E14		8223		31	SN	2		0724	1.70	1.90			
WEND	02	0723	0743		N25	E16		8223		20	1N		V		3.09				
KODA	02	0805	0820D		N24	E19		8223		15D	1F		S	0820	1.94	2.36	1.36		
KANZ	02	0805E	0840D		N25	E13		8223		35D	1F								
MANI	02	0814E	0838	0817	N27	E13		8223		24D	SN	2		0817	1.40	1.60			
ZURI	02	0815E	0835D		N26	E12		8223		20D	2N		S	0815	9.46	11.50			
MANI	02	0942	0952D		N27	E12		8223		10D	SN	1		0945	.50	.60			
ARCE	02	0945E	1000D		N28	E19		8223		15D	SN		P	0945	1.09	1.40			H
MANI	02	0952			N27	E12		8223			SN	1		0952	1.34	1.60			
KAND	02	1119	1225		N26	E18		8223		66	SN		P						
KAND	02	1122	1300		N27	E17		8223		98	SN		P	1213		1.97			
KAND	02	1124	1225		N29	E22		8223		61	SN		P						
WEND	02	1134E	1140D		N27	E14		8223		6D	2B		V		6.19				
OTTA	02	1135	1317	1139	N27	E12		8223		102	1B	2	C	1139	3.41	4.21			E
CAPS	02	1136	1219	1139	N26	E12		8223		43	2B	3		1140	4.20	5.00		277	GFIK
CAPF	02	1138E	1222E	1138	N27	E10		8223		44D	2N		C	1141	5.16	5.40			
KAND	02	1140E	1225		N28	E18		8223		45D	SN		P						
KAND	02	1158E	1221D		N26	E08		8223		23D	1N		P	1213		2.18			
OTTA	02	1441	1453	1445	N26	E08		8223		12	SN	1	C	1445	.58	.68			E
SACP	02	1455U	1515	1501U	N28	E14		8223		20U	SN		P		.85	.92			
OTTA	02	1459	1516	1501	N29	E12		8223		17	SB	2	C	1501	.58	.72			E
LOCA	02	1500	1520	1510	N27	E12		8223		20	1N		V	1510	2.10	2.60			
KANZ	02	1503	1508D		N27	E15		8223		5D	SN								F
MCMA	02	1503E	1519		N29	E13		8223		16D	SN		C	1503	.31	.40			E
OTTA	02	1533	1550	1539	N28	E19		8223		17	SB	2	C	1539	.20	.25			D
LOCK	02	1645	1652	1647	N27	E08		8223		7	SF		C	1647	.30	.40		10	
OTTA	02	1646	1650D	1647	N28	E08		8223		4D	SN	1	C	1647	.35	.42			
MCMA	02	1646	1710	1648	N28	E10		8223		24	SF		C	1648	.21	.30			EK
OTTA	02	1659	1703D	1701	N28	E11		8223		4D	SN	2	C	1701	.31	.38			
LOCK	02	1659	1712	1702	N29	E13		8223		13	SN		C	1702	.30	.40		10	
HALE	02	1659	1720	1702	N28	E12		8223		21	SN	3	C	1702	.26	.30			FT
LOCK	02	1738	1808	1753	N29	E13		8223		30	SN		C	1753	.60	.80		10	
HALE	02	1738	1812	1752	N28	E12		8223		34	SN	3	C	1752	.77	1.00			FT
SACP	02	1740	1805	1746	N28	E12		8223		25	SN		C		.94	1.01			
MCMA	02	1742	1800D	1748	N28	E12		8223		18D	SN		C	1748	.31	.40			E
HALE	02	1756	1842	1816	N27	E07		8223		46	SF	3	C	1816	.62	.70			T
MCMA	02	1758	1933	1801	N27	E09		8223		95	SN		C	1801	.31	.40			D
MCMA	02			1906										1906	.41	.50			
MCMA	02	2044E	2054D		N28	E08		8223		10D	SN		C	2046	.31	.40			E
LOCK	02	2112	2140	2115	N27	E11		8223		28	SN		C	2115	.70	.80		20	
HALE	02	2113	2150	2115	N28	E09		8223		37	SB	2	C	2115	.93	1.10			FKT
HALE	02			2138										2138	.62	.80			
SACP	02	2114	2150	2122	N28	E10		8223		36	SN		C		1.79	1.93			
LOCK	02	2213	2250	2216	N29	E11		8223		37	SB		C	2216	1.10	1.40		30	
SACP	02	2214	2235U	2215	N29	E10		8223		21U	1N		C		2.30	2.49			
HALE	02	2214	2238	2216	N27	E08		8223		24	1B	1	C	2216	2.48	3.00			FT
MANI	02	2218E	2245	2220	N27	E07		8223		27D	1N	1		2220	2.42	4.80			
HALE	02	2241	2252	2245	N27	E09		8223		11	SF	1	C	2245	.26	.30			FT
LOCK	02	2334	0015	2339	N25	E02		8223		41	SF		C					10	H
LOCK	02			2354										2354	.30	.40			
HALE	02	2335	2343	2338	N23	E01		8223		8	SN	2	C	2338	.21	.21			HT
HALE	02	2345	0016	2355	N23	E01		8223		31	SN	2	C	2355	.46	.50			HT
SACP	03	0000E	0113D	0011	N25	E06		8223		73D	SF		P		1.02	1.07			
HALE	03	0107	0130	0113	N23	W02		8223		23	SF	1	C	0113	.15	.20			J
HALE	03	0109	0129	0113	N30	E08		8223		20	SN	1	C	0113	.31	.40			T
HALE	03	0402	0405	0403	N29	E09		8223		3	SN	1	C	0403	.46	.60			

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OBSERVATORY	DATE 1966 APR	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	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
┌MANI	03	0441E	0503	0447	N25	E05		8223		22D	SB	2		0447	1.30	1.43			
└MITK	03	0442	0450	0443	N28	E07		8223		8	SN		C	0443	.83	1.00			E
WEND	03	0736E	0749D		N30	E04		8223		13D	1F		V		3.09				
KANZ	03	1014	1025		N29	E04		8223		11	SN								
┌OTTA	03	1301	1325	1306	N28	W03		8223		24	1B	2	C	1306	2.67	3.18			E
└SACP	03	1302E	1332	1308	N27	E00		8223		30D	1N		P		2.11	2.23			
OTTA	03	1345	1354	1348	N29	E01		8223		9	SB	1	C	1348	.11	.14			D
OTTA	03	1619	1621	1620	N24	W09		8223		2	SB	2	C	1620	.29	.34			D
OTTA	03	1620	1622	1620	N29	E01		8223		2	SB	2	C	1620	.18	.21			D
LOCK	03	1652	1700	1654	N28	W01		8223		8	SN		C	1654	.40	.50		10	
┌SACP	03	1659	1729	1708	N27	W10		8223		30	SN		C		.42	.45			
├HALE	03	1702	1726	1706	N28	W10		8223		24	SN	2	C	1706	.31	.40			
├LOCK	03	1704	1717	1708	N29	W09		8223		13	SF		C	1708	.30	.40		10	
└OTTA	03	1706	1710D		N28	W10		8223		4D	SN	1	P	1706	.24	.29			
HALE	03	1837	1842	1838	N30	W03		8223		5	SF	2	C	1838	.21	.30			
┌HALE	03	1851	1911	1856	N28	W02		8223		20	SF	2	C	1856	.46	.60			F
└LOCK	03	1853	1902	1855	N28	W01		8223		9	SN		C	1855	.30	.40		10	
HALE	03	2126	2152	2129	N23	W16		8223		26	SN	1	C	2129	.15	.20			JL
┌HALE	03	2223	2310	2229	N29	W03		8223		47	SB	1	C	2229	1.24	1.50			F
└MANI	03	2224	2251D	2230	N26	W04		8223		27D	1N	2		2230	2.90	3.10			
HALE	03	2329	2340	2333	N22	E36		8240		11	SF	1	C	2333	.41	.60			F
┌MANI	04	0112	0120	0114	N27	W06		8223		8	SF	2		0114	.41	.42			
└HALE	04	0118	0127	0122	N23	W17		8223		9	SN	1	C	0122	.15	.20			
┌HALE	04	0141	0227	0158	N28	W07		8223		46	1B	1	C	0158	1.96	2.40			F
└MANI	04	0144	0229	0156	N27	W07		8223		45	1B	2		0156	3.00	3.15			
┌MANI	04	0235	0258	0237	N26	W07		8223		23	SN	2		0237	.80	.85			
├MANI	04			0245										0245	1.28	1.37			
└HALE	04	0238E	0303	0242	N26	W08		8223		25D	SN	1	C	0242	.57	.70			F
├HALE	04	0407	0432D	0411	N28	W08		8223		25D	SN	1	P	0411	1.03	1.30			
├MANI	04	0408	0458	0413	N27	W08		8223		50	1N	2		0413	1.10	1.16			
├MANI	04	0408	0458	0421	N27	W08		8223		50		2		0421	1.10	1.16			
├MANI	04			0438										0438	3.40	3.64			
└KODA	04	0424	0441	0432	N25	W07		8223		17	1N		C	0432	1.94	2.28	2.00		E
┌MANI	04	0642	0703	0649	N27	W09		8223		21	SN	2		0649	1.20	1.34			
└KODA	04	0648E	0649D		N28	W05		8223		1D	1N		P	0648	2.73	3.28			
┌KANZ	04	0733E	0737D		N27	W08		8223		4D	1N								F
├MANI	04	0733	0812	0745	N27	W08		8223		39	2N	2		0745	4.22	5.37			
├LOCA	04	0740E	0820	0745	N26	W10		8223		40D	1N		V	0745	4.41	5.30			
└KANZ	04	0812E	0815D		N27	W08		8223		3D	SF								E
KANZ	04	0942E	0950D		N27	W10		8223		8D	SF								D
KANZ	04	1034E	1037D		N28	W17		8223		3D	SF								
KANZ	04	1040E	1047		N24	W18		8223		7D	SF								E
┌OTTA	04	1216	1254	1236	N37	W12		8223		38	SB	2	C	1236	.81	.99			F
└CAPS	04	1248E	1258		N26	W13		8223		10D	SN	1		1251	.80	1.00			G
┌CAPS	04	1301	1321		N26	W12		8223		20	SF	2		1303	1.20	1.40		153	GE
├SACP	04	1301E	1328	1310	N26	W11		8223		27D	SF		P		1.75	1.86			
└MCMA	04	1325E	1335D		N24	W22		8223		10D	SF		C	1330	.62	.80			B
┌OTTA	04	1338	1400	1343	N37	W12		8223		22	SN	2	C	1343	1.39	1.70			F
├SACP	04	1339	1420U	1344	N25	W15		8223		41U	1N		P		2.05	2.18			
├CAPS	04	1341E	1348		N25	W09		8223		7D	SN	2		1344	.70	.80		188	GD
└CAPS	04	1352	1359		N25	W09		8223		7	SN	2		1353	.50	.60		182	GD
┌MCMA	04	1504E	1517D	1510	N24	W22		8223		13D	SF		C	1510	.52	.60			EH
├SACP	04	1516E	1622	1557	N24	W21		8223		66D	1N		P		2.58	2.79			
├MCMA	04	1550	1605D	1555	N24	W22		8223		15D	SB		C	1555	.72	.90			EH
└CAPS	04	1555E	1602		N23	W18		8223		7D	SN	2		1558	.90	1.10		161	GE
┌HALE	04	1828	1909	1835	N31	W22		8223		41	SN	2	C	1835	.62	.80			F
└HALE	04	1834	1854	1835	N28	W24		8223		20	SN	2	C	1835	.15	.20			
LOCK	04	2035	2052	2040	N31	W14		8223		17	SF		C	2040	.30	.40		10	
┌LOCK	04	2107	2150	2120	N28	W20		8223		43	1N		C	2120	2.00	2.60		10	
├SACP	04	2107	2244	2121	N26	W20		8223		97	2N		C		8.75	9.56			
├HALE	04	2111	2203	2123	N27	W23		8223		52	2B	2	C	2123	5.16	6.60			FJ
└MANI	04	2201E	2229D		N25	W23		8223		28D	1F	1		2210	3.00	3.81			
HALE	04	2311	2326	2314	N26	W20		8223		15	SF	1	C	2314	.46	.60			F
┌LOCK	05	0018	0030	0022	N29	W16		8223		12	SF		C	0022	.20	.30		10	
└HALE	05	0019	0033	0021	N27	W19		8223		14	SF	1	C	0021	.46	.60			J
┌MITK	05	0110	0132	0113	N27	W20		8223		22	SF		C	0113	.62	.80			E
├SACP	05	0112E	0118D	0113	N28	W19		8223		6D	1F		P		2.19	2.41			
├HALE	05	0112	0144	0113	N28	W19		8223		32	SB	1	C	0113	.93	1.20			FJ
└MANI	05	0114	0138	0119	N28	W19		8223		24	SF	2		0119	1.10	1.38			
┌HALE	05	0207	0212	0209	N29	W27		8223		5	SN	2	C	0209	.62	.80			
├MITK	05	0207	0233	0210	N27	W21		8223		26	SN		C	0210	.93	1.20			E
├HALE	05	0207	0258	0210	N28	W19		8223		51	SB	2	C	0210	1.24	1.60			F
├MANI	05	0209	0236	0215	N28	W18		8223		27	1B	2		0215	2.90	3.70			
└KODA	05	0211	0223	0214	N26	W20		8223		12	1N		S	0214	2.26	2.93	1.65	100	E
HALE	05	0300	0328	0303	N28	W25		8223		28	SN	1	C	0303	.72	1.00			F
HALE	05	0345	0353	0346	N28	W28		8223		8	SN	1	C	0346	.21	.30			
┌KANZ	05	0708E	0715		N19	E17		8240		7D	SF								E
└CAPS	05	0710E	0728D		N16	E17		8240		18D	SN	2		0712	1.10	1.20			E
MANI	05	0754	0802	0756	N19	E17		8240		8	SF	2		0756	.40	.40			
┌KANZ	05	0854	0906		N27	W23		8223		12	SF								D
├CAPS	05	0857	0905D		N24	W25		8223		8D	SF	2		0859	.60	.70		157	G
└MANI	05	0857	0909	0859	N26	W22		8223		12	SN	2		0859	.26	.30			
CAPS	05	1342	1346		N17	E14		8240		4	SF	1			.30	.30			
HALE	05	1939	1952	1946	N24	W39		8223		13	SN	3	C	1946	.72	1.10			H
HALE	05	2145	2256D	2159	N23	E12		8240		71D	SN	2	P	2159	.36	.40			JTFH
HALE	05	2318	2334	2327	N24	W26		8223		16	SF	2	C	2327	.10	.12			
KODA	06	0539E			N26	W44		8223			SN		P	0539	.65	1.08	2.08		D
KANZ	06	0743E	0754		N26	W43		8223		11D	SF								EH
KANZ	06	0809	0816		N30	W44		8223		7	SN								DH
KANZ	06	0837E	0859		N27	W36		8223		22D	SF								DH

SOLAR FLARES

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 APR	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. %	
ARCE	06	1007E	1010		N25	W46		8223		3D	SN		P	1008	.61	1.00			Z
SACP	06	1307	1317	1311	N27	W60		8238		10	SF		C		.26	.44			
┌KANZ	06	1309E	1314		N27	W43		8223		5D	SF								D
├SACP	06	1313U	1340U	1320	N25	W40		8223		27U	SN		C		.95	1.18			
├KANZ	06	1321E	1333		N27	W43		8223		12D	SN								D
└KANZ	06	1321E	1333		N27	W38		8223		12D	SN								E
KANZ	06	1342E	1354		N27	W38		8223		12D	SF								D
┌SACP	06	1559	1635U	1605	N26	W41		8223		36U	1N		C		2.99	3.82			
├MCMA	06	1600	1624	1607	N27	W43		8223		24	SN		C	1607	1.03	1.80			F
├LOCK	06	1610E	1625	1610E	N27	W42		8223		15D	1N		C	1610	1.50	2.40		10	
└KANZ	06	1610E	1625		N27	W42		8223		15D	1F								EH
┌LOCK	06	1613	1636	1619	N31	E70		8251		23	SN		C	1619	.40	1.20		10	
├MCMA	06	1615	1626		N32	E76		8251		11	SB		C	1622	.31	1.00			D
└SACP	06	1615	1631	1619	N30	E71		8251		16	1N		C		1.11	2.60			
HALE	06	1627E	1701	1630	N27	W44		8223		34D	SN	1	P	1635	1.13	1.90			F
┌HALE	06	1656	1718	1659	N28	W60		8238		22	SB	2	C	1659	.36				FJ
└SACP	06	1657	1722	1712	N26	W57		8238		25	SF		C		.68	1.10			
SACP	06	1709	1723	1713	N29	W21		8248		14	SF				.8	.9			
┌LOCK	06	1811	1819	1815	N28	W42		8223		8	SF		C	1815	.20	.30		10	
└HALE	06	1812	1819	1813	N29	W44		8223		7	SN	2	C	1813	.26	.40			T
┌LOCK	06	1844	1851	1846	N25	W49		8223		7	SF		C	1846	.30	.50		10	
├HALE	06	1844	1855	1845	N26	W52		8223		11	SB	1	C	1845	.28	.50			F
├SACP	06	1845	1854	1847	N22	W49		8223		9	SF		C		.51	.69			
├LOCK	06	1850	1859	1852	N28	W43		8223		9	SF		C	1852	.30	.50		10	
└HALE	06	1851	1856	1852	N28	W45		8223		5	SN	1	C	1852	.36	.60			TF
HALE	06	1909	1950U	1914	N27	W62		8223		41U	SF	2	C	1914	.10				
┌HALE	06	2058	2105	2100	N22	W03		8240		7	SN	1	C	2100	.10	.11			H
├SACP	06	2058	2105	2101	N22	W02		8240		7	SF		C		.18	.17			
└LOCK	06	2058	2108	2101	N22	W02		8240		10	SF		C	2101	.20	.20		10	L
┌SACP	06	2110	2158U	2128	N29	W48		8223		48U	1N		C		1.46	2.07			
├LOCK	06	2111	2145	2113	N32	W46		8223		34	SN		C	2113	.50	.90		10	
├HALE	06	2113	2200D	2115	N31	W50		8223		47D	SN	1	P	2115	.46	.90			F
└LOCK	06	2126	2139	2128	N28	W49		8223		13	SN		C	2128	.40	.70		10	
CLMX	06	2129	2154		N38	W60				25	SN		C	2149	.70	1.26			
┌HALE	06	2128	2153	2133	N30	W68		8238		25	SN	1	P	2133	.15				TJ
├HALE	06	2132	2155U	2138	N28	W63		8238		23U	SN	1	P	2138	.21				J
├LOCK	06	2135	2156	2141	N28	W64		8238		21	SN		C	2141	.40	1.00		10	
└SACP	06	2138	2205	2149	N26	W60		8238		27	1F		C		1.27	2.20			
LOCK	06	2208	2213	2210	N28	W64		8238		5	SF		C	2210	.20	.50		10	
LOCK	06	2208	2221	2213	N22	W00		8240		13	SF		C	2213	.20	.20		10	
┌LOCK	06	2230	2237	2233	N28	W64		8238		7	SN		C	2233	.30	.70		10	
└HALE	06	2232	2240	2233	N30	W68		8238		8	SN	1	P	2233	.31				T
┌LOCK	06	2235	2250	2240	N22	W00		8240		15	SF		C	2240	.40	.40		10	
└HALE	06	2244	2300	2247	N22	W04		8240		16	SF	1	P	2247	.31	.31			
┌LOCK	06	2310	2321	2315	N28	W64		8238		11	SF		C	2315	.20	.50		10	
└HALE	06	2310	2325U	2316	N30	W68		8238		15U	SN	1	P	2316	.15				T
┌MANI	06	2320	2336	2324	N25	W47		8223		16	1B	2		2324	1.40	2.10			
├LOCK	06	2320	2347	2324	N29	W46		8223		27	1N		C	2324	1.00	2.80		10	
├SACP	06	2320	2350U	2324	N28	W45		8223		30U	1N		C		2.84	3.85			
├HALE	06	2321E	2400	2322	N29	W50		8223		39D	1B	1	P	2322	1.44	2.70			F
└LOCK	06	2336	2345	2340	N29	W46		8223		9	SF			2340	.20	.50		10	
┌SACP	07	0013	0028	0017	N29	W52		8223		15	1N		C		2.16	3.26			
├LOCK	07	0014	0023	0016	N31	W55		8223		9	SF		C	0016	.40	.80		10	
└MANI	07	0015	0024	0017	N29	W60		8223		9	SN	2		0017	.31	.60			
┌LOCK	07	0024	0030	0026	N22	W03		8240		6	SF		C	0026	.30	.30		10	
└MANI	07	0025	0029	0027	N20	E01		8240		4	SN	2		0027	.26	.30			
HALE	07	0203	0224	0205	N22	W06		8240		21	SF	1	P	0205	.21	.21			J
HALE	07	0324	0338	0326	N24	W06		8240		14	SN	1	P	0326	.21	.21			
┌HALE	07	0347	0402	0348	N21	W07		8240		15	SF	1	P	0348	.10	.11			
└HALE	07	0400	0407	0402	N24	W08		8240		7	SN	1	P	0402	.26	.30			
HALE	07	0354	0427D	0359	N23	W48		8223		33D	SF	1	P	0359	.21	.40			
┌MANI	07	0418	0423D	0421	N20	W05		8240		5D	SF	2		0421	.60	.70			
└HALE	07	0418	0427D	0419	N22	W08		8240		9D	SN	1	P	0419	.26	.30			
MANI	07	0511E	0518D		N30	W22		8248		7D	SN	2		0512	.50	.70			
KANZ	07	0741	0758		N22	W02		8240		17	SF								
KANZ	07	0758E	0805D		N28	W66		8223		7D	SF								
KANZ	07	0810	0820		N20	W05		8240		10	SN								
KANZ	07	1017E	1028		N29	W51		8223		11D	SF								E
┌CAPS	07	1243E	1310		N26	W49		8223		27D	1F	3		1245	1.70	2.90		152	GEI
└SACP	07	1301	1356	1311	N25	W47		8223		55	SF		C		.70	.96			
SACP	07	1450	1506	1455	N30	W30		8248		16	1N		C		2.57	3.06			
KANZ	07	1538E	1543		N19	W10		8240		5D	SF								E
KANZ	07	1549E	1555D		N29	W70		8223		6D	SF								D
┌SACP	07	1613	1634	1626	N29	W73		8238		21	1N		C		1.79	4.51			
├MCMA	07	1619E	1620D		N29	W85		8238		1D	SF		P	1620	.31				D
├LOCK	07	1622	1655	1640	N27	W71		8238		33	SF		C	1640	.30	.90		10	
└HALE	07	1635	1656	1638	N29	W80		8238		21	SF	1	C	1638	.21				
┌HALE	07	1705	1716	1710	N22	W13		8240		11	SB	1	C	1710	.46	.50			
└HALE	07	1706	1724	1708	N22	W11		8240		18	SB	1	C	1708	.15	.20			D
┌LOCK	07	1721	1731	1724	N28	W60		8223		10	SF		C	1724	.20	.40		10	
├HALE	07	1721	1736	1724	N29	W60		8223		15	SB	1	C	1724	.15				
└HALE	07	1722	1727	1724	N28	W62		8223		5	SB	1	C	1724	.15				
HALE	07	1804	1808	1806	N30	W34		8248		4	SN	1	C	1806	.15	.20			
HALE	07	1900	1915	1903	N30	W32		8248		15	SN	1	C	1903	.21	.30			
┌HALE	07	1903	1908	1905	N30	W80		8238		5	SB	1	C	1905	.15				
└LOCK	07	1904	1909	1905	N27	W71		8238		5	SN		C	1907	.20	.60		10	
┌LOCK	08	0009	0020D	0014	N27	W57		8223		11D	SF		C	0014	.50	1.10		10	
└MANI	08	0013	0023	0015	N27	W58		8223		10	SF	2		0015	.36	.50			
HALE	08	0139	0143	0140	N30	W85		8238		4	SB	1	C	0140	.15				
HALE	08	0235	0242	0238	N30	W85		8238		7	SF	1	C	0238	.10				
KANZ	08	0809E	0816D		N32	E35		8251		7D	SN								

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OBSERVATORY	OBSERVED UT DATE 1966 APR	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	08	0905E	0928D		N29	W90		8238		23D	2N			0910			3.90		A
KAND	08	1101	1115		N22	W23		8240		14	SN		P						
KAND	08	1128	1145		N18	W20		8240		17	SN		P						
KAND	08	1128	1145		N17	W24		8240		17	SN		P						
CLMX	08	1433E	1547D		N29	W90		8238		74D	1B		C	1445	.60	3.00			
SACP	08	1608	1715	1626	N21	W23		8240		67	1B		C		3.66	3.93			
MCMA	08	1622	1644	1624	N21	W24		8240		22	SN		C	1624	.72	.90			E
HALE	08	1628E	1724	1633	N20	W27		8240		56D	SN	1	P	1633	1.32	1.60			F
HALE	08	1641	1702	1644	N27	W90		8238		21	SN	1	C	1644	.10				
HALE	08	1733	1759	1740	N27	W90		8238		26	SN	1	C	1735	.31				
HALE	08			1752										1752	.21				
SACP	08	1743	1821	1751	N26	W72		8223		38	SN		C		.69	1.58			
HALE	08	1748	1759	1750	N28	W90		8238		11	SN	1	C	1750	.10				
HALE	08	1802	1830	1813	N21	W28		8240		28	1N	1	C	1813	2.58	3.30			F
LOCK	08	1803	1829	1813	N22	W26		8240		26	SN		C	1813	1.00	1.50		10	
SACP	08	1805	1843	1815	N21	W26		8240		38	1N		C		2.90	3.15			
HALE	08	1917	1934	1923	N21	W27		8240		17	SN	1	C	1923	1.24	1.60			F
LOCK	08	1920	1938	1925	N22	W27		8240		18	SN		C	1925	.90	1.40		10	
LOCK	08	1958	2010	2002	N22	W27		8240		12	SF		C	2002	.50	.80		10	
LOCK	08	2027	2037	2030	N22	W27		8240		10	SF		C	2030	.30	.50		10	
SACP	08	2143	2318D	2214	N20	W30		8240		95D	1N		C		2.05	2.28			
HALE	08	2148E	2221	2153	N21	W28		8240		33D	SN	1	P	2153	1.13	1.40			F
LOCK	08	2148	2225	2213	N22	W27		8240		37			C						
LOCK	08			2155										2155	.80	1.20			L
LOCK	08	2236	2300	2241	N22	W28		8240		24	SN		C	2241	.90	1.40		10	
HALE	08	2242E	2300	2243	N21	W28		8240		18D	SN	1	P	2243	.83	1.10			F
MANI	08	2243	2304	2249	N20	W29		8240		21	SN	1		2249	.50	.60			
HALE	08	2248	2258	2253	N28	W90		8223		10	SF	1	C	2253	.15				
SACP	09	0020	0108D	0030	N21	W30		8240		48D	1N		C		2.13	2.38			
HALE	09	0021	0046D	0025	N21	W31		8240		25D	1N	1	P	0025	2.16	2.80			F
LOCK	09	0023	0047	0025	N22	W28		8240		24	1N		C	0025	1.50	2.30		20	
MANI	09	0029E	0053	0032	N20	W29		8240		24D	SN	2		0032	1.24	1.60			
MANI	09	0226	0239	0229	N28	W80		8223		13	SN	2		0229	.28	.80			
CAPS	09	0617	0631		N19	W30		8240		14	SN	3		0619	.90	1.20		163	G
MANI	09	0727	0745	0730	N20	W37		8240		18	SF	2		0730	1.40	1.96			
WEND	09	0831E	0930		N21	W33		8240		59D	2N		V		6.19				
KAND	09	0835E	0907		N18	W36		8240		32D	1N		C	0848		2.71			
WEND	09	1007E	1029		N26	W90		8223		22D	2B		V		7.22				
CAPS	09	1015E	1020		N28	W90		8223		5D	1F	3		1017	1.10			147	GB
CAPS	09	1044E	1047		N20	W30		8240		3D	SF	3		1044	.80	1.00		149	GB
SACP	09	1655	1709	1702	N20	W39		8240		14	SN		C		1.20	1.43			
HALE	09	1657	1707	1658	N21	W40		8240		10	SN	2	C	1658	.46	.70			
MCMA	09	1659E			N21	W42		8240			SN		P	1659	.41	.60			D
HALE	09	1750	1755	1753	N21	W40		8240		5	SF	2	C	1753	.26	.40			
MCMA	09	1919E	1941D		N21	W45		8240		22D	SN		P	1920	.31	.50			D
HALE	09	2014	2019	2016	N21	W41		8240		5	SF	2	C	2016	.26	.40			
LOCK	09	2145	2156	2149	N21	W41		8240		11	SF		C	2149	.30	.50		10	
HALE	10	0220	0235	0224	N28	E45		8259		15	SF	2	C	0224	.26	.50			GH
KAND	10	0945E	1015		N18	W51		8240		30D	SN		P						
KAND	10	0946	1015		N18	W51		8240		29	SN		P						
KAND	10	0950	1020		N18	W51		8240		30	SN		P						
CAPS	10	1225E	1240	1227	N22	W46		8240		15D	SN	3		1228	1.20	1.80		188	G
SACP	10	1317	1328	1321	N25	W78		8223		11	SN		C		.26				
SACP	10	1345	1400	1351	N25	W79		8223		15	SN		C		.34				
MCMA	10	1547E	1558		N21	W54		8240		11D	SF		P	1547	.31	.60			E
MANI	10	2311E	2335D		N19	W60		8240		24D	1N	1		2312	1.40	2.60			
MANI	10	2347E	0012	2350	N19	W59		8240		25D	1N	2		2350	1.55	2.80			
MANI	11	0120E	0200	0125	N20	W56		8240		40D	1B	2		0125	2.39	4.32			
KODA	11	0344	0347	0345	N21	W56		8240		3	SF		V	0346	.97	1.94	1.96		
KANZ	11	0741E	0755D		N21	W60		8240		14D	SN			0742			2.20		
KANZ	11	0805E	0813D		N21	W60		8240		8D	SN								D
KANZ	11	0851	0904D		N22	W61		8240		13D	SN								E
KANZ	11	0948E	1055		N22	W62		8240		67D	1B			1001			4.00		E
WEND	11	1004E	1014D		N21	W57		8240		10D	1B		V		5.16				
LOCA	11	1005E	1025D	1005	N21	W60		8240		20D	1N		S	1005	1.68	4.00			
CATA	11	1005E	1035D	1005	N20	W62		8240		30D	1B		C	1005	2.05	4.00		251	
CAPS	11	1006E	1036		N18	W60		8240		30D	1B	3		1009	1.90	4.20		229	GFK
ARCE	11	1012E	1017D		N22	W64		8240		5D	SN		P	1012	.74	1.60			
CAPS	11	1105E	1111		N19	W59		8240		6D	SN	3		1107	.40	.80		166	GE
MCMA	11	1225	1243D	1234	N20	W64		8240		18D	1B		C	1234	.83	2.10			D
CAPS	11	1230	1302		N18	W59		8240		32	1F	3		1135	1.80	4.00		147	GJK
LOCA	11	1245E	1315D	1250	N21	W60		8240		30D	1N		S	1250	1.89	4.50			
MCMA	11	1248	1302	1254	N19	W62		8240		14	SB		C	1254	.41	1.00			D
CAPF	11	1250E	1330E	1250	N22	W62		8240		40D	1N		P	1257	2.06	4.40			
SACP	11	1251E	1328	1256	N18	W58		8240		37D	1F		P		2.09	3.23			
SACP	11	1430	1520	1439	N21	W65		8240		50	1N		C		1.45	2.66			
MCMA	11	1435	1444	1439	N20	W65		8240		9	SN		C	1439	.41	1.30			D
SACP	11	1530	1622	1604	N20	W64		8240		52	1N		C		2.23	4.00			
MCMA	11	1607E	1608D		N20	W65		8240		1D	SN		P	1607	.52	1.50			E
SACP	11	1745	1801	1753	N20	W67		8240		16	SF		C		.43	.83			
LOCK	11	1802	1810	1805	N20	W65		8240		8	SF		C	1805	.20	.50		10	
HALE	11	2104E	2122	2107	N21	W69		8240		18D	SN	2	P	2107	.41				T
HALE	11	2337	2357U	2340	N21	W69		8240		20U	SB	1	C	2340	.46				T
HALE	12	0111E	0120D		N21	W69		8240		9D	SN	1	P	0112	.31				
HALE	12	0124E	0127		N21	W69		8240		3D	SN	1	P	0125	.15				T
KODA	12	0157	0202	0157	N22	W72		8240		5	SF		P	0157	.65		1.88		
HALE	12	0157	0206	0158	N23	W80		8240		9	SN	2	C	0158	.41				T
HALE	12	0226	0232D	0228	N21	W69		8240		6D	SF	1	P	0228	.21				T
HALE	12	0307	0313D	0312	N21	W69		8240		6D	SN	1	P	0312	.31				T
HALE	12	0309	0334	0317U	N22	E90		8262		25	SN	1	P	0313	.15				
KODA	12	0315E			N22	W72		8240			1N		P	0315	.97				

SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	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. %	
	1966 APR																		
MANI	12	0351	0401	0354	N17	E85		8262		10	SB	2		0354	.27	1.00			
MITK	12	0411	0453	0415	N20	W73		8240		42	1F		C	0415	1.24				
MANI	12	0555	0610	0600	N17	E87		8262		15	SN	2		0600	.15	.53			
MANI	12	0652	0714	0656	N23	W74		8240		22	1N	2		0656	.88	2.10			
MANI	12	0726	0733	0728	N24	W72		8240		7	SB	2		0728	.46	1.10			
SACP	12	1345	1405	1353	N21	W76		8240		20	SN		C		.77				
MCMA	12	1350	1403	1354	N20	W85		8240		13	SB		C	1354	.26				D
SACP	12	1410	1429	1412	N23	E80		8262		19	SN		C		.34				
ARCE	12	1440E	1450D		N23	W90		8240		10D	SN		C	1442	.20	1.10			
ARCE	12	1515E	1525D		N20	E90		8262		10D	SN		C	1520	.17	.90			
ARCE	12	1546E	1637D		N20	E90		8262		51D	SN		C	1549	.23	1.30			
SACP	12	1621	1654	1630	N20	W77		8240		33	1N		C		2.77				
MCMA	12	1627	1641	1631	N20	W88		8240		14	SN		C	1631	.41				E
ZURI	12	1627E	1643		N22	W80		8240		16D	1N		S	1630	.85				
ARCE	12	1630E	1640D		N22	W85		8240		10D	1N		C	1630	.84	3.40			
HALE	12	1718	1743	1724	N17	W44		8253		25	SF	3	C	1724	.26	.40			H
SACP	12	1715	1749	1721	N20	W77		8240		34	1N		C		2.52				
LOCK	12	1717	1742	1720	N22	W80		8240		25	1N		C	1720	1.00	3.40		20	L
HALE	12	1718	1748	1720	N20	W80		8240		30	1B	3	C	1720	.83				T
HALE	12	1856	1913	1906	N20	W80		8240		17	SN	1	C	1906	.26				JT
SACP	12	2003	2028	2009	N20	W78		8240		25	SF		C		.60				
HALE	12	2005	2009D	2008U	N20	W80		8240		4D	SN	1	P	2008	.31				T
LOCK	12	2016	2026	2020	N22	W80		8240		10	SF		C	2020	.30	1.00		10	
HALE	12	2019	2024	2020	N20	W80		8240		5	SN	1	C	2020	.26				T
LOCK	12	2031	2040D	2037	N22	W80		8240		9D	SF		C	2037	.30	1.00		10	
MCMA	12	2035E	2043D		N20	W89		8240		8D	SF		P	2039	.21				D
HALE	12	2048E	2056	2048	N20	W80		8240		8D	SN	1	P	2048	.15				T
MCMA	12	2120	2128	2123	N20	W90		8240		8	SN		C	2123	.21				D
HALE	12	2136E	2141	2137	N22	W80		8240		5D	SF	2	C	2137	.26				T
HALE	12	2212	2215D	2214	N16	W46		8253		3D	SF	2	P	2214	.21	.30			
SACP	12	2223	2243	2236	N20	W79		8240		20	SF		C		1.03				
MANI	12	2243	2244		N20	W82		8240		1	1N	1		2244	1.00	2.90			
SACP	12	2332	2359D	2345	N21	W80		8240		27D	SN		P		1.21				
LOCK	12	2337	2350	2342	N22	W90		8240		13	1N		C	2342	.70	2.80		20	
MANI	12	2343	0007	2347	N20	W83		8240		24	SN	2		2347	.31	1.05			
SACP	13	0016	0056	0027	N20	W81		8240		40	SN		C		.86				
LOCK	13	0020	0040	0028	N23	W90		8240		20	SF		C	0028	.40	1.60		10	H
SACP	13	0058	0119D	0109	N21	W77		8240		21D	SN		P		.62				
HALE	13	0103	0202D		N21	W90		8240		59D	SN	1	P	0112	.36				
MANI	13	0615	0636	0617	N20	W83		8240		21	SN	2		0617	.31	1.05			
MANI	13	0707	0727	0712	N20	W83		8240		20	SB	2		0712	.41	1.35			
KANZ	13	0710E	0955D		N23	W90		8240		165D	1B			0829			4.30		A
ISTA	13	0725E	0745		N20	W90		8240		20D	1								
MANI	13	0735	0740	0737	N19	W84		8240		5	SN	2		0737	.31	1.02			
KAND	13	0749E	0935D		N21	W90		8240		106D	1B		P						
ISTA	13	0815	0835		N20	W90		8240		20	1								
ARCE	13	0846E	0945D	0853	N22	W90		8240		59D	1N		C	0853	.45	2.60			
ARCE	13			0911										0911	.80	4.60			
KAND	13	1148	1211		N21	W90		8240		23	1B		P						
KAND	13	1216	1226		N21	W90		8240		10	SN		P						
KAND	13	1240	1347		N21	W90		8240		67	SN		P						
KAND	13	1317	1339		N23	W90		8240		22	SN		P						
KANZ	13	1600	1607D		N27	E66		8262		7D	SF								
HALE	13	1739	1805	1748	N26	E64		8262		26	SF	2	C	1748	.26				
SACP	13	1834	1904	1843	N16	E61		8262		30	SF		C		.34	.55			
HALE	13	1840	1901	1843	N15	E57		8262		21	SF	3	C	1843	.15	.30			
HALE	13	1925	1938	1928	N16	E60		8262		13	SF	2	C	1928	.15	.30			
SACP	13	2030	2056	2040	N16	E59		8262		26	SF		C		.52	.80			
LOCK	13	2032	2047	2040	N14	E60		8262		15	SF		C	2040	.20	.40		10	
HALE	13	2034	2057	2037	N15	E55		8262		23	SF	2	C	2037	.21	.40			
HALE	13	2138	2150	2140	N26	E62		8262		12	SN	2	C	2140	.21				
HALE	13	2221	2252	2236	N21	E51		8262		31	SN	2	C	2236	.21	.40			JH
LOCK	13	2229	2251	2240	N21	E51		8262		22	SF		C	2240	.30	.50		10	
MANI	13	2251	2259	2253	N19	E60		8262		8	SN	2		2253	.46	.90			
HALE	13	2300	2310	2302	N21	E51		8262		10	SN	2	C	2302	.10	.20			J
HALE	13	2343	2358	2345	N21	E51		8262		15	SF	2	C	2345	.10	.20			
HALE	14	0024	0032	0026	N21	E61		8262		8	SF	2	C	0026	.21				
HALE	14	0044	0058	0046	N27	E60		8262		14	SF	2	C	0046	.26				
HALE	14	0046	0109	0058	N15	E55		8262		23	SF	2	C	0058	.21	.40			
HALE	14	0047	0100	0049	N21	E51		8262		13	SF	2	C	0049	.10	.20			
LOCK	14	0050	0108	0056	N14	E57		8262		18	SF		C	0056	.20	.40		10	
MANI	14	0417	0432	0419	N20	E56		8262		15	SN	1		0419	.80	1.46			
WEND	14	0702	0720D		N23	E60		8262		18D	1F		V		3.09				
MCMA	14	1248	1324	1252	N26	E51		8262		36	SN		C						EKL
MCMA	14			1305										1305	.83	1.60			
OTTA	14	1249	1258D	1253	N24	E53		8262		9D	1N	1	C	1253	1.85	3.58			E
HALE	14	2225	2240	2226	N23	E56		8262		15	SB	2	C	2226	.15	.30			EJ
MEUD	15	0956	1018D		N20	E40		8262		22D	2B		C	1011	6.40	10.60			U
LOCA	15	1006	1108D	1025	N18	E41		8262		62D	1N		V	1025	3.36	4.90			
CAPS	15	1010E	1019D		N20	E40		8262		9D	2B	1		1014	5.50	7.90			
CATA	15	1013E	1130D	1021	N18	E40		8262		77D	3B		C	1021	10.79	16.00		257	
ZURI	15	1015E	1023D		N18	E39		8262		8D	3B		S		13.87	20.30			
ZURI	15	1113E	1135		N17	E39		8262		22D	2F		S		7.98	11.70			
SACP	15	1807	1816D	1811U	N25	E37		8262		9D	SF		P		1.46	1.77			
HALE	15	1918	1951	1938	N20	E23		8262		33	SB	3	C	1938	.15	.20			CH
HALE	15	2054	2107	2056	N25	E45		8262		13	SN	2	C	2056	.52	.80			
MCMA	15	2055	2056D		N23	E45		8262		1D	SN		P	2055	.36	.60			DV
HALE	16	0355	0414	0356	N25	E33		8262		19	SN	2	C	0356	.52	.70			F
KAND	16	1000	1010		N19	E25		8262		10	SN		P	1108		1.49			

SOLAR FLARES

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OBSERVATORY	OBSERVED UT DATE 1966 APR	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	16	1831	1845	1833	N23	E26		8262		14	SF	2	C	1833	.70	.88			E
HALE	16	1831	1852	1832	N23	E24		8262		21	SF	2	C	1832	.57	.70			
HALE	16	2111	2123	2113	S17	E16		8265		12	SF	1	C	2113	.31	.32			
MANI	17	0055	0111	0058	N22	E21		8262		16	SN	2		0058	.30	.36			
HALE	17	0138	0151	0143	N24	E38		8262		13	SF	1	C	0143	1.08	1.60			
CAPF	17	0842E	0854E	0847	N21	E19		8262		12D	1N		P	0849	2.06	2.60			
ISTA	17	0843	0854		N23	E13		8262		11	2								
CAPS	17	0843	0855		N22	E09		8262		12	1F	3		0848	2.50	2.80		142	GFI
CATA	17	0844E	0856D	0847	N22	E13		8262		12D	1B		C	0847	2.35			380	
LOCA	17	0845	0858	0848	N22	E12		8262		13	SB		V	0848	1.05	2.10			
ARCE	17	0845	0900	0846	N21	E11		8262		15	1N		C	0846	2.76	3.10			
KAND	17	0848	0858		N24	E11		8262		9	SN		V						
KAND	17	0850	0858		N23	E12		8262		8	SN		V						
KAND	17	0850	0858		N24	E15		8262		8	SN		V						
KAND	17	0855	0858		N23	E16		8262		3	SN		V						
KAND	17	0900	0915		N24	E14		8262		15	SN		V						
LOCA	17	0947	1003	0951	N22	E12		8262		16	SN		V	0951	1.05	2.10			
CATA	17	0957E	1002D	0957	N23	E09		8262		5D	SN			0957	.81	.94		199	
MCMA	17	1303	1313	1305	N20	E11		8262		10	SN		C	1305	.67	.70			FH
OTTA	17	1305	1310	1305	N18	E13		8262		5	SN	2	C	1305	.94	1.04			E
SACP	17	1420	1520	1453	N19	E12		8262		60	1N		C		2.41	2.45			
KANZ	17	1425E	1500D		N19	E12		8262		35D	1N								F
MCMA	17	1433	1515	1438	N19	E10		8262		42	SB		C	1438	.62	.70			E
MCMA	17			1453										1453	1.03	1.10			
OTTA	17	1433	1528	1436	N18	E13		8262		55	SN	2	C						E
OTTA	17			1443										1443	1.28	1.42			
LOCA	17	1440E	1520D	1445	N19	E12		8262		40D	1N		V	1445	2.73	5.50			
OTTA	17	1639	1652		N22	E13		8262		13	SF	2	C	1647	.94	1.08			
SACP	17	1744	1823	1756	N23	E12		8262		39	1N		C		3.45	3.59			
OTTA	17	1746	1830	1854	N22	E13		8262		44	1B	2	C	1854	2.56	2.96			F
HALE	17	1747	1816	1754	N24	E11		8262		29	1N	2	C	1754	1.86	2.20			FILS
MCMA	17	1748	1817	1755	N23	E13		8262		29	SN		C	1755	.93	1.10			E
MCMA	17	1945	1956D	1950	N22	E12		8262		11D	SF		C	1950	.36	.40			D
HALE	17	1945	2002	1947	N24	E12		8262		17	SN	2	C	1947	.62	.70			TJ
HALE	17	2021	2029	2024	N23	E04		8262		8	SN	2	C	2021	.93	1.00			HI
SACP	17	2021	2048	2036	N22	E04		8262		27	1N		C		2.16	2.19			
HALE	17	2031	2045	2034	N23	E04		8262		14	SN	2	C	2034	1.03	1.20			HI
MCMA	17	2032	2046	2036	N22	E04		8262		14	SB		C	2036	.41	.50			EH
HALE	18	0058	0112	0100	N23	E09		8262		14	SF	2	C	0100	.77	.90			F
HALE	18	0343E	0355D	0344	N23	E07		8262		12D	SN	1	C	0344	.41	.50			
MITK	18	0426	0439	0429	N23	E08		8262		13	SF		C	0429	1.65	1.90			E
MITK	18	0453	0528	0500	N24	E07		8262		35	1F		C	0500	2.17	2.40			E
MANI	18	0458	0524	0504	N23	E07		8262		26	SB	2		0504	1.80	2.03			
KODA	18	0504E	0511		N22	E07		8262		7D	SN		S				1.60		
KANZ	18	0817	0822D		N23	E08		8262		5D	SF								F
KANZ	18	0843E	0851		N22	E05		8262		8D	SF								D
KAND	18	0845E	0855		N22	E04		8262		10D	SN		V						
KANZ	18	0850	0858D		N21	E11		8262		8D	SF								D
WEND	18	0850	0901		N21	E11		8262		11	SN								
KAND	18	1137	1318		N21	W01		8262		101	1N		C	1239		2.44			
KAND	18	1137	1318		N23	E06		8262		101	1N		C	1244		2.18			
OTTA	18	1138	1139D		N23	E04		8262		1D	SB	1	C	1139	.46	.53			E
CATA	18	1143E	1202D	1145	N24	E03		8262		19D	1N		C	1145	2.25			178	
OTTA	18	1143E	1205	1150	N22	E02		8262		22D	SN	2	C	1150	1.53	1.70			E
OTTA	18	1231E	1319	1247	N22	W01		8262		48D	SB	1	C	1247	1.58	1.79			ETK
OTTA	18	1326	1351D		N22	E01		8262		25D	1B	1	C	1338	2.10	2.38			FT
KANZ	18	1327	1341		N22	E03		8262		14	SF								D
OTTA	18	1356E	1438D		N22	E02		8262		42D	1N	1	C	1405	1.87	2.08			FT
KANZ	18	1400E	1413D		N21	E04		8262		13D	1F								F
OTTA	18	1640	1655	1642	N22	W01		8262		15	SN	2	C	1642	.24	.26			E
KANZ	18	1649	1654D		N21	E02		8262		5D	SF								
OTTA	18	1700	1710	1705	N24	E07		8262		10	SN	2	C	1705	1.39	1.60			E
HALE	18	1701	1718	1704	N24	E06		8262		17	SN	1	C	1704	.62	.70			T
SACP	18	1702E	1712	1705	N24	E07		8262		10D	SF		P		1.64	1.69			
OTTA	18	1758	1815	1802	N18	W06		8262		17	SN	2	C	1802	.18	.19			D
HALE	18	1916	1932	1917	N20	W05		8262		16	SN	1	C	1917	.62	.70			T
HALE	18	1954	2028	2003	N22	E01		8262		34	SN	1	C	2003	.72	.80			T
MCMA	18	1959E	2006D		N22	W02		8262		7D	SF		P	2002	.52	.60			E
SACP	18	2133	2147U	2136	N24	W04		8262		14U	SF		P		1.04	1.07			
HALE	18	2134	2245	2137	N23	W05		8262		71	SN	2	C	2137	1.44	1.60			TEFI
HALE	18	2213	2246	2219	N23	W07		8262		33	SN	1	C	2219	.46	.50			T
HALE	19	0008	0012	0011	N19	W06		8262		4	SN	2	C	0011	.41	.50			TH
OTTA	19	1515	1530	1520	N22	W06		8262		15	SN	2	C	1520	.21	.23			
OTTA	19	1628	1650	1637	N15	W18		8262		22	SN	2	C	1637	.18	.20			
HALE	19	2100	2117	2105	N20	E57		8272		17	SN	2	C	2205	.26	.50			TFG
HALE	19	2146	2200	2147	N20	E57		8272		14	SN	1	C	2147	.52	1.00			TFG
HALE	19	2324	2336	2325	N19	E56		8272		12	SN	1	C	2324	.21	.40			T
HALE	20	0034	0114	0036	N21	E56		8272		40	SN	1	C	0026	.46	.90			
ARCE	20	0847E	0915D		N19	E51		8272		28D	1N		C	0847	1.95	3.80			H
KAND	20	0919	1004		N24	W24		8262		45	1N		C	0940		2.39			
SACP	20	1304	1316	1310	N19	E49		8272		12	SF		C		.43	.57			
MCMA	20	1306	1313	1307	N20	E48		8272		7	SF		C	1307	.21	.40			EH
SACP	20	1411	1426	1418	N20	E48		8272		15	SF		C		.26	.34			
MCMA	20	1412	1417	1413	N20	E48		8272		5	SN		C	1413	.31	.50			DV
MCMA	20	1611	1618D	1612	N22	E45		8272		7D	SN		C	1612	.26	.40			D
SACP	20	1854	1917U	1856	N22	W26		8262		23U	SN		C		.87	.94			
HALE	20	1854	1930	1857	N24	W24		8262		36	SN	3	C	1857	.77	1.00			
MCMA	20	1855	1910	1859	N23	W27		8262		15	SN		C	1859	.46	.60			E
HALE	20	1954	2025	1956	N22	E43		8272		31	SN	1	C	1956	.46	.70			

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS				REMARKS
	DATE	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. %	
	1966 APR																	
LOCK	20	2115	2140	2123	N19	E43		8272		25	SF		C	2123	.40	.60		10	
LOCK	21	0015	0040	0020	N21	E42		8272		25	SF		C	0020	.20	.30		10	H
LOCK	21			0034															
LOCK	21	0100	0114	0104	N21	E42		8272		14	SF		C	0104	.20	.30		10	H
LOCK	21	0130	0140	0134	N21	E42		8272		10	SN		C	0134	.30	.50		10	
HALE	21	0218	0227	0219	N19	E40		8272		9	SN	1	C	0219	.36	.50			
KAND	21	0911	0936		N19	W41		8262		25	1N		C	0912		3.53			
MEUD	21	0912E	0913D		N22	W38		8262		1D	1N		C		1.80	2.60			
MANI	21	0914	0934	0920	N20	W45		8262		20	1F	2		0920	2.20	3.52			
KAND	21	1140	1152		N21	E38		8272		12	SN		P						
LOCK	21	1659	1717	1701	N24	W37		8262		18	SN		C	1701	.50	.80		10	
LOCK	21	1825	1830	1827	N24	W37		8262		5	SF		C	1827	.20	.30		10	
LOCK	21	1842	1854	1845	N24	W37		8262		12	SF		C	1845	.30	.50		10	
HALE	21	1843	1901	1848	N24	W41		8262		18	SN	2	C	1848	.72	1.10			
LOCK	21	1908	1925	1912	N30	W19		8262		17	SF		C	1912	.20	.30		10	
LOCK	21	1922	1935	1926	N35	W42		8262		13	SF		C	1926	.20	.40		10	
HALE	21	2028	2100	2031	N21	W43		8262		32	SN	1	C	2031	.21	.30			
LOCK	21	2356	2402	2358	N24	W39		8262		6	SF		C	2358	.30	.50		10	
MANI	22	0628	0639	0633	N20	E26		8272		11	SN	2		0633	.36	.37			
MANI	22	0720	0739	0725	N18	E24		8272		19	SF	2		0725	1.16	1.15			
MCMA	22	1215	1246	1220	N18	E20		8272		31	SN		C	1220	.52	.60			EH
MCMA	22	1236	1255	1241	N29	W27		8275		19	SF		C	1241	.31	.40			E
OTTA	22	1242	1308	1243	N29	W27		8275		26	SN	2	C	1243	.46	.63			JT
MCMA	22	1353	1430		N29	W27		8275		37	SN		C	1400	.31	.40			E
OTTA	22	1415	1421	1415	N17	E18		8272		6	SN	2	C	1415	.75	.86			F
KANZ	22	1415E	1424D		N16	E18		8272		9D	SN			1416			2.00		DE
MCMA	22	1415	1426	1416	N18	E18		8272		11	SN		C	1416	.52	.60			E
SACP	22	1416E	1421D	1416U	N17	E18		8272		5D	SN		P		.61	.62			
KANZ	22	1553E	1559		N18	E17		8272		6D	SF								D
LOCK	22	1650	1718	1659	N18	E16		8272		28	SF		C	1659	.40	.40		10	H
LOCK	22	1655	1712	1701	N25	E45		8273		17	SF		C	1701	.20	.30		10	H
LOCK	22	1732	1749	1735	N18	E16		8272		17	SF		C	1735	.30	.30		10	
LOCK	22	1932	1941	1935	N17	E16		8272		9	SF		C	1935	.80	.80		10	
SACP	22	1934	1949U	1935	N17	E15		8272		15U	SF		C		.52	.52			
MCMA	22	1935	1940	1937	N18	E16		8272		5	SF		C	1937	.21	.21			D
SACP	22	1958	2012U	2004E	N19	E17		8272		14U	SF		P		.69	.71			
LOCK	22	1958	2012	2001	N21	E19		8272		14	SF		C	2001	.30	.30		10	
HALE	22	1958	2017	2000	N23	E20		8272		19	SN	1	C	2000	.46	.60			
SACP	22	2049	2103	2054	N27	E64		8274		14	SF		C		.26	.47			
SACP	22	2050	2057	2052	N17	E15		8272		7	SN		C		1.04	1.05			
LOCK	22	2050	2058	2052	N17	E16		8272		8	SF		C	2052	.80	.80		10	
HALE	22	2051	2058	2052	N17	E15		8272		7	SN	2	C	2052	.77	.90			
HALE	22	2216	2250	2223	N18	E15		8272		34	SN	2	C	2223	.52	.60			
LOCK	22	2221	2230	2223	N17	E16		8272		9	SF		C	2223	.80	.80		10	
MANI	22	2240	2250	2242	N28	W32		8275		10	SF	1		2242	.59	.87			
MANI	23	0440	0455	0443	N28	W33		8275		15	SF	2		0443	1.20	1.80			
MANI	23	0513	0520	0515	N28	W33		8275		7	SF	2		0515	.87	1.30			
CATA	23	0825E	0900D	0850	S23	E90		8277		35D	SF		C	0850	.45			135	
KAND	23	0857	0910		N19	E08		8272		13	SN		C						
WEND	23	0859	0910		N19	E11		8272		11	SN								
ARCE	23	0905E	0922D		N29	W38		8275		17D	SN		P	0922	.75	1.20			
KANZ	23	1000E	1006D		N28	W36		8275		6D	SF								E
HALE	23	1921	1941	1923	N30	W43		8275		20	SF	2	C	1923	.15	.30			
HALE	23	2237	2250	2245	N30	W47		8275		13	SN	1	C	2245	.93	1.60			
SACP	23	2240U	2256U	2244	N28	W46		8275		16U	1N		P		1.65	2.23			
LOCK	24	0013	0017	0015	N29	W48		8275		4	SF		C	0015	.20	.40		10	
HALE	24	0013	0021	0015	N31	W50		8275		8	SF	1	C	0015	.62	1.10			T
HALE	24	0031	0042	0034	N32	W48		8275		11	SN	1	C	0034	.77	1.40			T
LOCK	24	0031	0043	0032	N29	W46		8275		12	SN		C	0032	.40	.70		10	
SACP	24	0032	0040	0034	N29	W46		8275		8	SF		C		.43	.59			
MANI	24	0035	0054	0039	N26	W56		8275		19	1N	2		0039	1.10	2.10			
HALE	24	0100	0115	0102	N31	W50		8275		15	SN	1	C	0102	1.03	1.80			T
LOCK	24	0100	0117	0105	N27	W48		8275		17	SF		C	0105	.30	.50		10	
HALE	24	0121	0137D	0126	N28	W51		8275		16D	SF	1	P	0126	.93	1.70			T
ARCE	24	0815E	0820D		N24	E90		8278		5D	SN		C	0815	.20	1.10			
KANZ	24	0917E	0927		N29	W50		8275		10D	SN								
KANZ	24	1029E	1040		N29	W50		8275		11D	SF								E
KANZ	24	1341E	1346		N18	W08		8272		5D	SF								E
KANZ	24	1410	1430		N28	W50		8275		20	1B			1412			3.80		
WEND	24	1414E	1453		N29	W61		8262		39D	1N		V		5.16				
KANZ	24	1438E	1450		N28	E53				12D	SN								
LOCK	24	1647	1652	1648	N29	W50		8275		5	SF		C	1648	.20	.40		10	
LOCK	24	1738	1750	1741	N29	W50		8275		12	SF		C	1741	.20	.40		10	
HALE	24	1850	1908D	1900	N29	W58		8275		18D	1N	1	C	1900	.93	2.10			T
LOCK	24	1852	1908	1857	N29	W58		8275		16	SF		C	1857	.50	1.10		10	
MCMA	24	2122E	2143D	2130	N18	W12		8272		21D	SB		C	2130	.77	.90			E
LOCK	24	2122	2215	2132	N20	W11		8272		53	SF		C					10	JK
LOCK	24			2150										2150	1.20	1.20			
LOCK	24	2125	2145	2135	N23	W78		8272		20	1N		C	2135	.90	3.10		20	
HALE	24	2127	2204D	2142	N18	W10		8272		37D	1N	1	P	2127	1.86	2.00			HF
SACP	24	2130E	2217	2158	N19	W10		8272		47D	1N		P		2.41	2.44			
MANI	24	2148	2214		N18	W11		8272		26	SN	2		2200	1.65	1.70			
MCMA	24	2130E	2140D	2137	N23	W90		8262		10D	SF		C	2137	.72				
SACP	24	2131	2150	2138	N23	W81		8262		19	SN		C		.77				
KODA	25	0239E	0247		N18	W12		8272		8D	SN		P	0239	1.29	1.32			
MANI	25	0240	0256	0244	N20	W11		8272		16	SN	2		0244	1.20	1.30			
HALE	25	0427	0441D	0433	N20	W14		8272		14D	SN	1	P	0433	.77	.90			TF
MANI	25	0430	0451	0434	N20	W12		8272		21	SN	2		0434	1.50	1.70			
MITK	25	0431	0447	0432	N20	W13		8272		16	SN		C	0432	1.34	1.50			
KODA	25	0440	0450	0445	N17	W13		8272		10	SF		C	0445	.95	1.00	1.60		D

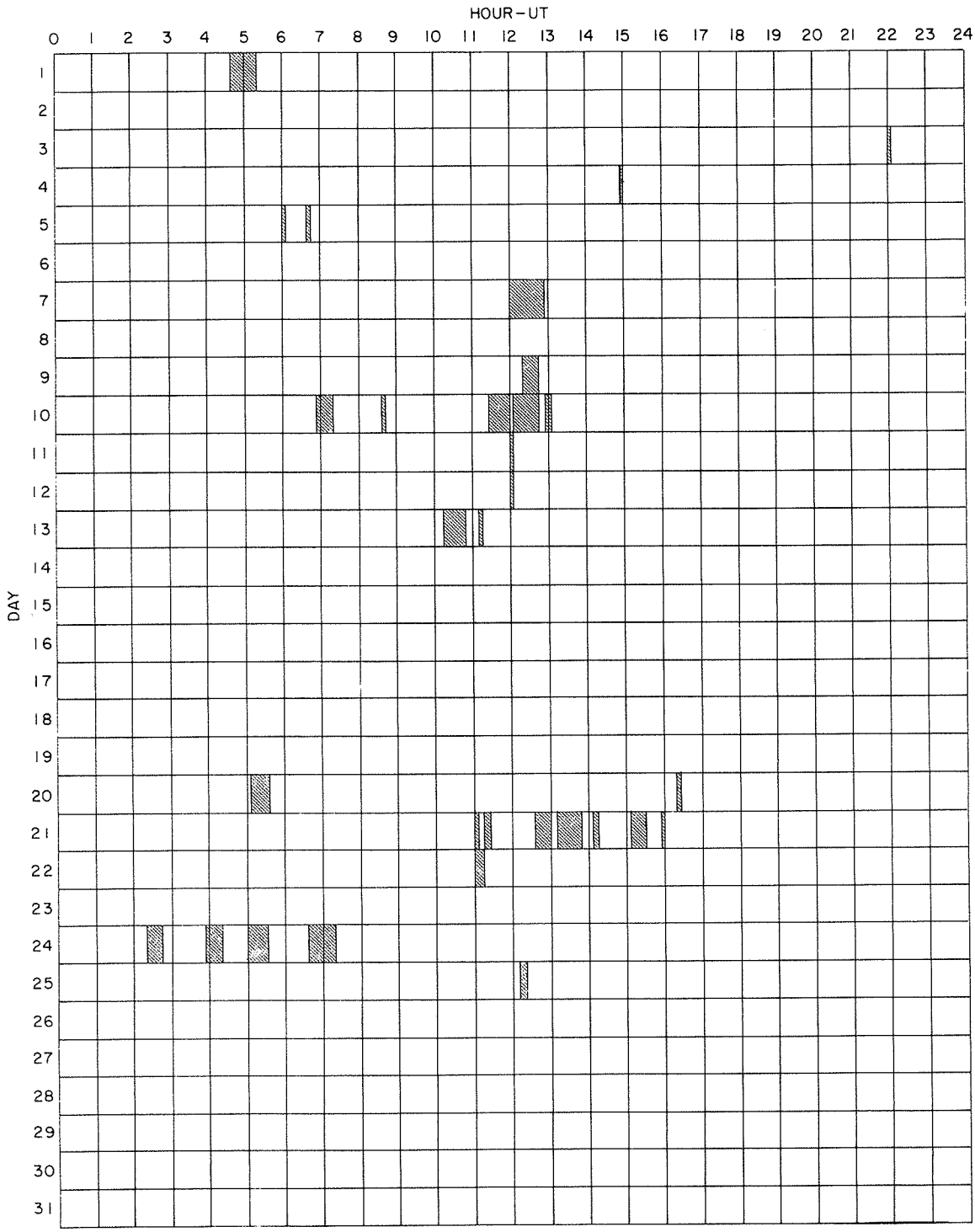
SOLAR FLARES

APRIL 1966

OBSERVATORY	DATE 1966 APR	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
┌CATA	25	0840E	0855D	0849	N19	W17		8272		15D	SB		C	0849	1.11			245	
├CAPS	25	0845E	0855		N19	W14		8272		10D	SF	3		0848	1.20	1.30		157	GF
└KANZ	25	0845E	0904		N21	W18		8272		19D	1N								F
KANZ	25	0900	0905		N31	W65		8275		5	SF								D
┌MCMA	25	1427	1436	1428	N19	W19		8272		9	SN		C	1428	.41	.50			E
└KANZ	25	1428E	1434		N20	W17		8272		6D	SF								D
┌LOCK	25	1523	1610	1541	N17	W23		8272		47	SN		C	1541	1.40	1.70		20	J
├MCMA	25	1525	1551	1538	N19	W20		8272		26	SB		C	1538	.77	.90			E
├CAPS	25	1529	1544		N17	W16		8272		15	SN	3		1543	.90	1.00		164	GJ
├KANZ	25	1531E	1550D		N19	W18		8272		19D	1N								E
└SACP	25	1533E	1559	1544	N20	W19		8272		26D	1F		P		2.59	2.69			
LOCK	25	1600	1624	1605	N34	E80		8279		24	1N		C	1605	1.20	3.10		10	
LOCK	25	1907	1925	1915	N27	W69		8275		18	SF		C	1915	.30	.80		10	
LOCK	25	1953	1959	1955	N29	W69		8275		6	SF		C	1955	.20	.50		10	
LOCK	25	2026	2044	2030	N29	W69		8275		18	SF		C	2030	.30	.80		10	
HALE	25	2310	2323	2313	N18	W26		8272		13	SN	1	C	2313	.26	.30			T
┌SACP	26	0000E	0014	0006	N27	E60		8279		14D	SF		P		.52	.87			
└MANI	26	0001	0014	0004	N28	E66		8279		13	SN	2		0004	.52	1.12			
LOCK	26	1532	1550	1538	N24	E58		8279		18	SF		C	1538	.40	.80		10	
LOCK	26	1540	1555	1543	N20	W32		8272		15	SF		C	1543	.30	.90		10	
LOCK	26	1700	1738	1715	N28	W78		8275		38	SF		C	1715	.30	1.00		10	H
LOCK	26	1735	1805	1750	N16	W35		8272		30	SF		C	1750	.20	.30		10	
LOCK	26	1754	1810	1758	N28	W78		8275		16	SF		C	1758	.30	1.00		10	H
LOCK	26	1830	1850	1836	N25	E48		8278		20	1N		C	1836	.90	2.40		10	
LOCK	26	1855	1915	1902	N28	W78		8275		20	SF		C	1902	.20	.70		10	H
LOCK	26	1900	1930	1910	N16	W36		8272		30	SF		C	1910	.20	.40		10	
LOCK	26	1939	1948	1941	N28	W78		8275		9	SF		C	1941	.30	1.00		10	H
LOCK	26	1948	2002	1950	N28	W78		8275		14	SF		C	1950	.30	1.00		10	
LOCK	26	2205	2212	2207	N29	W90		8275		7	SF		C	2207	.20	.80		10	
LOCK	26	2339	2345	2341	N28	W78		8275		6	SF		C	2341	.20	.70		10	H
┌LOCK	26	2349	2355	2352	N20	W41		8272		6	SF		C	2352	.20	.30		10	
└HALE	26	2350	2354	2352	N20	W44		8272		4	SN	1	C	2352	.21	.30			T
ARCE	27	0845E	1153D		N30	W90		8275		188D	1N		C	0940	.39	2.20			
KANZ	27	1021E	1028D		N21	W42		8272		7D	SF								
LOCK	27	2112	2122	2116	N29	E47		8279		10	SF		C	2116	.30	.50		10	H
┌LOCK	27	2322	2345	2330	N23	W49		8272		23	SF		C	2330	.30	.50		10	
└HALE	27	2328	2347	2331	N25	W55		8272		19	SN	1	C	2331	.31	.60			T
HALE	28	0357	0429D	0359	N30	E70		8283		32D	SN	1	P	0359	.41				T
KAND	28	0750	0759		N15	W55		8272		9	SN		C						
KAND	28	0829	0839		N14	W56		8272		10	SN		C						
ISTA	28	0840	0845		N18	W57		8272		5	1								
┌SACP	28	1403	1428	1407	N17	W61		8272		25	SF		C		.95	1.51			
└CLMX	28	1405	1412	1407	N19	W58		8272		7	SN		C	1407	.40	.60			
SACP	28	1450	1455	1451	N22	E65		8272		5	SF		C		.35	.63			
┌KANZ	28	1620E	1628		N18	W57		8272		8D	SF								
├SACP	28	1623	1644	1630	N16	W61		8272		21	SF		C		.53	.84			
└HALE	28	1629	1640	1631	N18	W61		8272		11	SN	1	C	1631	.31	.70			T
KANZ	28	1641	1655		N25	E20		8278		14	SF								
HALE	28	1701	1718	1707	N21	W90		8276		17	SN	1	P	1707	.21				
SACP	28	1750	1806	1800	N29	E20		8278		16	SF		C		.18	.19			
┌LOCK	28	2155	2205	2158	N16	W65		8272		10	SN		C	2158	.40	.90		10	
└HALE	28	2157	2203	2159	N16	W65		8272		6	SN	2	C	2259	.31				T
┌HALE	28	2222	2245	2232	N26	E28		8279		23	SN	2	C	2232	1.13	1.50			KL
└LOCK	28	2222	2250	2231	N25	E26		8279		28	SN		C	2231	.70	.90		20	
LOCK	28	2327	2341	2332	N17	W66		8272		14	SF		C	2332	.40	.90		10	
HALE	29	0352	0404	0354	N18	W76		8272		12	1N	2	C	0354	.72				T
HALE	29	0408	0418D	0411	N18	W76		8272		10D	SN	2	P	0411	.41				T
MANI	29	0920	0945		N29	E12		8278		25	SN	1		0930	.62	.74			
┌MEUD	29	1206	1214	1212	N28	E10		8278		8	SF		C	1212	.90	1.10			
└MCMA	29	1206	1215	1209	N29	E10		8278		9	SN		C	1209	.41	.50			E
┌CLMX	29	1317	1331	1319	N23	E60		8284		14	SN		C	1319	.50	.80			
├MCMA	29	1318	1355	1322	N27	E60		8284		37	SN		C	1322	.36	.70			E
└OTTA	29	1320E	1327		N26	E60		8284		7D	SN	1	C	1322	.53				E
┌OTTA	29	1502	1517		N26	E59		8284		15	SF	1	C	1511	.53				
├SACP	29	1505	1523	1510	N26	E61		8284		18	1F		C		1.30	2.20			
├MCMA	29	1505	1525	1509	N27	E60		8284		20	SF		C	1509	.31	.60			E
└CLMX	29	1506	1518	1510	N23	E60		8284		12	SN		C	1510	.40	.64			
SACP	29	1512	1520	1516	N26	E20		8279		8	SF		C		.95	1.02			
LOCK	29	1658	1735	1717	N17	W78		8272		37	SF		C	1717	.30	.90		10	
LOCK	29	2010	2025	2015	N29	E04		8279		15	SF		C	2015	.30	.40		10	
┌LOCK	29	2110	2135	2120	N17	W78		8272		25	SF		C	2120	.30	.90		10	
└HALE	29	2118	2134	2124	N19	W79		8272		16	1N	1	C	2124	.62				TJ
LOCK	29	2250	2315	2300	N17	W82		8272		25	SF		C	2300	.30	1.00		10	
LOCK	29	2320	2350	2324	N28	E09		8279		30	SF		C	2324	.50	.60		10	J
KANZ	30	1049E	1053		S24	E03		8282		4D	SF								
SACP	30	1459E	1507	1502	N23	E82		8285		8D	SF		P		.69				
LOCK	30	1845	1915	1855	S23	W01		8282		30	SF		C	1855	.30	.30		10	J
┌LOCK	30	2023	2039	2028	S24	W03		8282		16	SN		C	2028	.40	.40		20	J
└SACP	30	2036U	2043	2036U	S25	W04		8282		7U	SF		P		.34	.34			
LOCK	30	2050	2115	2057	S25	W02		8282		25	SF		C	2057	.30	.30		10	J
┌LOCK	30	2130	2235	2150	S25	W02		8282		65	SF		C	2150	.30	.30		10	K
├LOCK	30			2210															
└MANI	30	2213	2224	2216	S23	W01		8282		11	SN	1		2216	.75	.78			
┌LOCK	30	2250	0010	2320	S25	W02		8282		80	SF		C	2320	.30	.30		10	K
└LOCK	30			2345															
LOCK	30	2303	2330	2308	N2[illegible]	W08		8279		27	SF		C	2308	.40	.50		10	
SACP	30	2323	2350	2331	N20	E32		8284		27	SF		C		.43	.48			

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

APRIL 1966



Observatories included:

Arcetri	Haleakala	Kodaikanal	Meudon	Salonique
Arosa	Herstmonceux	Locarno	Mitaka	Tortosa
Capri-F (German)	Istanboul	Lockheed	Monte Mario	Wendelstein
Catania	Kandilli	Manila	Ottawa	Zürich
Climax	Kanzelhöhe	McMath-Hulbert	Sacramento Peak	

SOLAR FLARES

JANUARY 1966

OBSERVATORY	OBSERVED UT DATE 1966 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
CULG	01	0412	0433	0423	N21	W06		8107		21	SN		C	0423	.21	.21			
ATHN	01	0717			N22	W08		8107			SN	2		0720	.36	.40	1.40		
CULG	01	0720E	0727	0723	N24	W09		8107		7D	SN		P	0723	1.03	1.10			H
MANI	01	0721E	0736D		N21	W06		8107		15D	SF	2		0722	.41	.42			
	01	1410	1425	NO FLARE PATROL															
	01	1440	1510	NO FLARE PATROL															
ATHN	02	0615E	0619		S27	W30		8110		4D	SN	2		0618	.50	.60	1.20		
ATHN	02	0820	0827D	0822	S27	W26		8110		7D	SN	2		0822	.33	.40	1.10		
KANZ	03	0908E	0920D		N25	W36		8107		12D	SF								D
LOCK	03	2023	2037	2029	S10	W35		8110		14	SN		C	2029	.30	.30		20	
UCCL	04	1128	1129		S20	E45		8116		1	SN		C	1129	.31	1.00			D
UCCL	04	1319	1321	1320	N18	E85		8117		2	SB		C	1320	.21				D
SACP	04	2150	2207	2152	S18	E37		8116		17	SF		C		.42	.45			
HALE	04	2151	2202D	2152	S19	E36		8116		11D	SN		P	2152	.41	.50			F
HALE	04	2350	0010	2354	S19	E35		8116		20	SN		C	2354	.60	.80			F
ATHN	05	1020	1027	1023	N24	E78		8117		7	SN	2		1023	.25	1.20	1.20		
UCCL	05	1021	1023		N23	E85		8117		2	SN		C	1022	.21				D
ARCE	06	0850E	0955D	0900	N20	E50		8117		65D	SN		C	0900	.31	.54			
	07	0445	0500	NO FLARE PATROL															
ARCE	07	0900E	1000D	0915	N22	W08		8123		60D	SN		C	0915	.77	.86			
ARCE	08	0900E	0915D	0905	N12	W35		8122		15D	SB		C	0905	.19	.24			
UCCL	08	1019	1211D		N22	E80		8124		112D	SF		C	1019	.52				D
ATHN	09	0840E	0851	0845	N21	E28		8117		11D	SN	2		0845	.33	.40	1.20		
HALE	09	2345	0002	2347	N25	W26		8126		17	SF		C	2347	.20	.30			
SACP	09	2345	2358	2348	N25	W26		8126		13	SF		C		.52	.56			
KAND	10	1034	1049D		N10	W08		8117		15D	SF		S						
	10	1055	1125	NO FLARE PATROL															
UCCL	10	1126E	1127		N24	W03		8117		1D	SN		P	1126	.83	1.00			D
UCCL	10	1128E	1130		N26	W01		8117		2D	1N		C	1129	2.60	3.70			E
UCCL	10	1129	1131D		N22	E02		8117		2D	SN		P	1129	1.03	1.40			D
UCCL	10	1130	1140D		N23	W03		8117		10D	SN		P	1131	.83	1.00			D
UCCL	10	1131	1137		N26	W02		8117		6	1N		C	1136	1.56	2.20			E
UCCL	10	1131	1140D	1135	N21	W02		8117		9D	1N		P	1135	2.06	2.70			E
	10	1140	1400	NO FLARE PATROL															
SACP	10	1523	1533D	1528	N21	W01		8117		10D	SF		C		.42	.42			
CLMX	10	1524E	1531	1527	N21	W01		8117		7D	SF		C	1527	.20	.20			
MCMA	10	1748E	1759		N21	W05		8117		11D	SF		S	1752	.42	.42			DS
HALE	10	1757	1808	1800	N20	W04		8117		11	SN		C	1800	.10	.10			
HALE	11	0129	0158	0136	N20	W12		8117		29	SN		C	0136	.60	.70			F
KAND	11	0720E	0836		N28	W90				76D	1B		P						
	11	1200	1225	NO FLARE PATROL															
	11	1310	1340	NO FLARE PATROL															
	11	1355	1400	NO FLARE PATROL															
OTTA	11	1629	1631D		N24	W53		8126		2D	SF		C	1630	.15	.33			
HALE	11	2224	2235	2230	N24	W80		8122		11	SN		C	2230	.41	.80			
	12	0930	1010	NO FLARE PATROL															
	12	1020	1025	NO FLARE PATROL															
	12	1240	1245	NO FLARE PATROL															
	12	1255	1320	NO FLARE PATROL															
HALE	13	0052	0112	0058	N18	E90		8131		20	SN		P	0058	.20				
HALE	13	0202	0213	0210	N19	E90		8131		11	SN		C	0210	.20				
HALE	13	0237	0245	0242	N18	E90		8131		8	SN		C	0242	.10				
HALE	13	0246	0319	0254	N18	E90		8131		33	SN		C	0254	.41				
HUAN	13	1135E	1142		N15	E80		8131		7D	SF		P	1137	.26				D
	13	1355	1410	NO FLARE PATROL															
HALE	13	1917	1929	1925	N18	E80		8131		12	SB		C	1925	.41				
HALE	13	2158	2209D	2200	N17	E80		8131		11D	SN		C	2200	.20				
HALE	13	2242	2256	2250	N21	E80		8131		14	1F		C	2250	.71				
HALE	13	2259	2315		N17	E80		8131		16	SN		P	2301	.30				
MANI	14	0108	0118	0111	N19	E75		8131		10	SF	3		0111	.32	.70			
IKOM	14	0128			N19	E74		8131			1N		P						
CULG	14	0327	0344	0329	N24	E73		8131		17	SN		C	0329	.21				C
KAND	14	0805E	0825		N21	E90		8131		20D	SN		S						
ARCE	14	0825E	0830D		N18	E72		8131		5D	1B		P	0825	.96	2.29			F
KANZ	14	0916E	0921D		N19	E68		8131		5D	SF								
KANZ	14	0952	1010		N19	E73		8131		18	1F								
UCCL	14	1003E	1009D		N17	E75		8131		6D	1N		P	1003	2.06				BE

SOLAR FLARES

JANUARY 1966

OBSERVATORY	OBSERVED UT DATE 1966 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
UCCL	14	1009E	1012		N12	E85		8132		3D	SN		P	1011	.31				D
OTTA	14	1444	1448	1446	N20	E65		8131		4	SN		C	1446	.33				DT
KANZ	14	1444E	1501		N18	E64		8131		17D	SF								E
OTTA	14	1458	1529	1512	N20	E70		8131		31	SN		C	1521	.17				EKT
OTTA	14			1521															
HUAN	14	1553	1609	1555	N19	E67		8131		16	SN		C	1555	.57				E
OTTA	14	1554	1601	1555	N19	E68		8131		7	SN		C	1555	.51				ET
SACP	14	1555	1609	1557	N19	E65		8131		14	SF		C		.42	.74			
OTTA	14	1743	1757	1745	N20	E60		8131		14	SF		C	1745	.15	.34			T
HALE	14	1815	1828	1821	N30	E90		8133		13	SN		C	1821	.20				
HALE	14	1821	1826	1821	N25	W90				5	SB		C	1821	.30				A
HALE	14	1842	1846	1843	N24	W90				4	SN		C	1843	.41				AF
OTTA	14	1849	1853D		N19	E62		8131		4D	SN		C	1850	.45				ET
SACP	14	1849	1956U	1927	N19	E64		8131		67U	1N		C		1.65	2.86			
LOCK	14	1900	1955	1910	N18	E62		8131		55	1N		C	1910	1.50	3.30		20	J
HUAN	14	1910E	1958		N19	E65		8131		48D	SN		P	1927	.62				E
CLMX	14	1911E	1956	1927	N18	E66		8131		45D	SB		C	1927	.70	1.20			
HUAN	14	2045	2105	2055	N20	E66		8131		20	SF		C	2055	.26				DH
SACP	14	2046	2103U	2055	N14	E57		8131		17U	SF		C		.17	.24			
SACP	14	2123	2132U	2125	N14	E57		8131		9U	SF		C		.17	.24			
HALE	14	2211	2219	2214	N13	E58		8131		8	SF		C	2214	.20	.40			
LOCK	14	2219	2247	2230	N13	E55		8131		28	SN		C	2230	.70	1.30		20	H
HUAN	14	2226	2235	2229	N16	E58		8131		9	SF		C	2229	.42	.60			E
HALE	14	2226	2245	2228	N12	E55		8131		19	SN		C	2228	.50	1.00			F
SACP	14	2227	2244	2229	N14	E57		8131		17	SN		C		.42	.60			
HALE	14	2236	2244	2239	N30	E90		8133		8	SN		C	2239	.41				FH
HALE	14	2318	2344	2326	N30	E90		8133		26	SB		C	2326	.41				
HALE	15	0005	0016	0007	N30	E90		8133		11	SN		C	0007	.30				
HALE	15	0147	0200D	0154	N30	E90		8133		13D	SN		C	0154	.20				
WEND	15	1040E	1058		N17	E58		8131		18D	1N		V		3.10				
HUAN	15	1131E			N17	E56		8131			SF		P	1131	.31	.45			E
HUAN	15	1311	1323		N18	E56		8131		12	SF		P	1316	.42	.60			E
HUAN	15	1528	1555D		N19	E55		8131		27D	SF		P	1542	.31	.45			D
SACP	15	1538	1550	1544	N14	E48		8131		12	SN		C		.42	.52			
OTTA	15	1611	1624	1616	N13	E47		8131		13	SN		C	1616	.39	.61			E
CULG	15	2228	2247	2231	N09	E66		8132		19	SN		C	2231	.21	.50			CG
IKOM	16	0015	0035D		N19	E50		8131		20D	SF		V	0015	.83	1.40		75	D
	16	0120	0130	NO FLARE PATROL															
CATA	16	1100E	1135D	1100	N28	E37		8130		35D	SN		C	1100	.73	1.10		199	
MCMA	16	1550	1604	1552	N19	E40		8131		14	SN		S	1552	.26	.30			S
MCMA	16	1845E	2010D	1908	N21	E34		8131		85D	1N		V	1908	1.45	2.00			FK
MCMA	16			1941															
LOCK	16	1857	2128	1920	N24	E27		8130		151	SN		C	1920	.60	.80		20	J
LOCK	16	2050	2115	2100	N27	E27		8130		25	SN		C	2100	.30	.40		20	J
HUAN	16	1902E	1906D		N20	E34		8131		4D	SF		P	1905	.36	.40			E
CLMX	16	1902	1909	1927D	N20	E35		8131		7	SN		C	1909	.50	.55			
HUAN	16	1955E	1958D		N20	E35		8131		3D	SN		P	1955	.78	.90			E
SACP	16	2003E	2003E	2003U	N20	E34		8131		0D	SF		P		1.33	1.49			
HUAN	16	2157	2201	2158	N19	E37		8131		4	SF		C	2158	.31	.34			D
HUAN	16	2228	2232	2229	N20	E38		8131		4	SF		C	2229	.21	.23			D
CULG	17	0150E	0222	0158	N19	E34		8131		32D	1B		C	0158	1.08	2.34			
MITK	17	0201	0230	0210	N20	E36		8131		29	SN		C	0210	.73	.98			D
MITK	17	0423	0445	0429	N19	E35		8131		22	SN		C	0429	.73	.96			E
MANI	17	0443E	0452D	0446	N20	E39		8131		9D	SN	2		0446	.36	.40			
	17	0530	0605	NO FLARE PATROL															
	17	0625	0655	NO FLARE PATROL															
ATHN	17	0850E	0851	0900	N19	E30		8131		1D	SN	2		0851	.36	.50	1.40		
ATHN	17	0939	0943	0952	N19	E30		8131		4	SN	2		0943	.36	.50	1.30		
ATHN	17	1031	1225	1109	N18	E28		8131		114	2B	2		1110	9.60	11.90	2.00		
KANZ	17	1032E	1156D		N19	E27		8131		84D	2B			1111			3.50		FH
CATA	17	1034E	1134D	1045	N20	E26		8131		60D	1B		C	1045	2.16	2.70		240	
WEND	17	1046E	1250	1112	N19	E27		8131		124D	3B		V		18.65				
ONDR	17	1114	1232	1123	N20	E24		8131		78	2F		V	1123			2.70		BFHZ
MEUD	17	1119E	1241D		N18	E29		8131		82D	2B		C	1120	5.40	6.60			
HUAN	17	1206E	1249		N19	E29		8131		43D	1F		P	1207	1.13	1.28			
KANZ	17	1148E	1156D		N31	E58		8133		8D	SN								D
HUAN	17	1206E	1229		N30	E56		8133		23D	SF		P	1211	.21	.33			D
WEND	17	1207E	1225		N30	E58		8133		18D	SF								
ATHN	17	1221	1224	1222	N33	E59		8133		3	SN	2		1222	.33	.80			
HUAN	17	1505	1517		N30	E54		8133		12	SF		C	1510	.21	.32			E
HUAN	17	1800	1823	1802	N20	E26		8131		23	SB		C	1802	1.13	1.23			H
HALE	17	1800	1835	1806	N19	E22		8131		35	SF		C	1806	.80	.90			F
CLMX	17	1800	1835	1802	N21	E24		8131		35	SN		C	1802	.70	.77			
HUAN	17	1804	1810	1806	N19	E19		8131		6	SF		C	1806	.47	.56			E
HUAN	17	1841	1852		N31	E55		8133		11	SF		C	1843	.21	.32			D
HALE	17	1844	1847	1845	N16	E22		8131		3	SN		C	1845	.41	.50			
HUAN	17	1932	1936	1933	N30	E52		8133		4	SF		C	1933	.26	.39			D
HUAN	17	1945	1953	1948	N30	E52		8133		8	SF		C	1948	.36	.54			D
HUAN	17	2128	2149	2137U	N20	E23		8131		21	1N		C	2137	1.65	1.75			
CLMX	17	2130	2147D	2135	N21	E24		8131		17D	SB		C	2135	1.30	1.43			
HALE	17	2134	2144	2136	N17	E22		8131		10	1F		C	2136	2.00	2.30			L
HUAN	17	2224	2246D		N18	E25		8131		22D	SF		P	2235	.88	.93			E
CULG	18	0029	0052	0032	N17	E18		8131		23	SN		C	0032	.31	.34			CH
HALE	18	0031E	0033D		N16	E17		8131		2D	SF		C	0033	.60	.70			
CULG	18	0123	0143	0125	N21	E22		8131		20	SN		C	0125	.62	.69			T
CULG	18	0220	0240	0222	N17	E16		8131		20	SF		C	0222	.21	.22			T
CULG	18	0333	0345	0334	N17	E20		8131		12	SN		C	0334	.62	.69			T

SOLAR FLARES

JANUARY 1966

OBSERVATORY	OBSERVED UT DATE 1966 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
CULG	18	0556	0625	0556	N21	E18		8131		29	SB		C	0556	1.03	1.15			LT
CULG	18	0558	0620	0600	N20	E12		8131		22	SF		C	0600	.21	.22			T
CULG	18	0631	0643	0637	N36	E48		8133		12	SB		P	0637	.42	.80			
	18	0720	0730	NO FLARE PATROL															
HUAN	18	1128	1139	1129U	N20	E16		8131		11	SF		C	1129	.57	.58			EH
HUAN	18	1249	1303	1252	N30	E13		8130		14	SF		C	1252	.31	.33			E
HUAN	18	1253	1318	1259	N20	E10		8131		25	SN		C	1259	.67	.68			EH
HUAN	18	1409	1424U	1415	N18	E17		8131		15U	SF		C	1415	.31	.31			E
HUAN	18	1447	1503	1452	N18	E17		8131		16	SF		C	1452	.36	.37			E
CLMX	18	2049	2121	2107	N19	E12		8131		32	SN		C	2107	.90	.90			
CLMX	18	2107	2115	2109	N22	E00		8131		8	SN		C	2109	.40	.40			
CLMX	18	2132	2154		N21	E10		8131		22	SN		C	2139	.30	.30			
LOCK	18	2253	0030D	2328	N21	E08		8131		97D	2N		C	2328	6.10	6.10		20	IJ
MANI	18	2254	0115	2312	N21	E07		8131		141	2B	3		2345	6.55	7.02	2.80	120	
CULG	18	2324E	0223	2329	N20	E06		8131		179D	2B		P	2329	9.75	10.44			FSTU
HALE	18	2336E	2351D		N19	E08		8131		15D	2B		P	2341	5.20	5.70			F
MITK	18	2358E	0003D		N18	E04		8131		5D	1N		P	0002	2.70	2.90			FZ
IKOM	19	0015	0110D	0020	N19	E10		8131		55D	SF		V	0020	1.13	1.30		85	D
IKOM	19	0015	0120D		N17	E05		8131		65D	1B		V	0015	2.48	2.70	1.84	120	D
MITK	19	0023	0044D		N27	W10		8130		21D	1N		V						F
MITK	19	0305	0346		N27	W11		8130		41	1N		V						
KODA	19	0334	0345		N30	W03		8130		11	SN		V	0334			1.20		
MITK	19	0410E	0425D	0413	N27	W12		8130		15D	SN		V						
KAND	19	0813E	0822		N33	E41		8133		9D	SF		S						
ARCE	19	0815E	0835D	0825	N29	W01		8130		20D	SN		C	0825	1.11	1.36			EH
ARCE	19	0900E	1000D	0900	N30	W00		8130		60D	1N		C	0900	2.30	2.84			
ARCE	19	0920E	0950D	0925	N21	E02		8131		30D	SN		C	0925	.41	.45			D
MONT	19	1047	1104		N28	E03		8130		17	1F		C	1055	1.53				
KODA	19	1110	1130D	1125	N32	E33		8133		20D	1F		P	1125	2.27	3.30	1.04		
MONT	19	1113	1145		N28	E37		8133		32	1F		C	1125	1.75				
UCCL	19	1303	1309	1305	N28	W02		8130		6	SN		C	1305	1.03	1.60			D
CAPS	19	1310E	1315		N29	W01		8130		5D	SN	3		1310	1.00	1.20		166	GCEL
HUAN	19	1425	1436	1428	N30	E32		8133		11	SF		C	1428	.47	.55			EH
	19	1500	1645	NO FLARE PATROL															
HUAN	19	1647	1701	1650U	N20	E01		8131		14	SN		C	1650	1.55	1.55			
HUAN	19	1720E	1725D		N30	E31		8133		5D	SF		P	1720	.26	.30			CE
	19	1935	1940	NO FLARE PATROL															
MANI	19	2231E	2251D		N29	W09		8130		20D	1N	3		2235	2.40	2.76			
CULG	19	2255	2307	2258	N19	W03		8131		12	SN		C	2258	1.25	1.32			
MANI	20	0008E	0015		N19	W05		8131		7D	SF	2		0010	1.00	1.06			
VORO	20	0023	0039	0025	N28	W08		8130		16	1		C	0025	1.89	2.31		70	E
MANI	20	0023E	0047	0026	N29	W08		8130		24D	SN	2		0026	1.50	1.73			
CULG	20	0023E	0100	0025	N29	W06		8130		37D	1N		P	0025	2.91	3.36			T
IKOM	20	0035	0050		N28	W09		8130		15	SN		V	0038	1.24	1.40			D
CULG	20	0302E	0319	0307	N29	W07		8130		17D	1N		P	0307	2.29	2.64			JT
VORO	20	0303	0316	0306	N28	W08		8130		13	1		C	0306	2.16	2.64		63	E
MANI	20	0305	0318	0308	N31	W13		8130		13	SN	2		0308	1.30	1.55			
SIBE	20	0307	0320	0309	N28	W08		8130		13	1F		C	0309	2.58	5.10		38	
KODA	20	0307	0328	0309	N28	W10		8130		21	1B		C	0309		3.77	1.68		
MANI	20	0419	0426	0421	N21	W07		8131		7	SF	2		0421	.20	.22			
CULG	20	0450	0527	0505	N29	W10		8130		37	SB		C	0505	1.66	1.92			JUT
CAPS	20	0921E	0926		N31	W13		8130		5D	SN	3		0924	.50	.60		157	E
HUAN	20	1230	1239	1235	N28	W10		8130		9	SF		C	1235	.52	.53			E
	20	1550	1600	NO FLARE PATROL															
	21	1305	1315	NO FLARE PATROL															
	21	1510	1520	NO FLARE PATROL															
HUAN	21	1623	1644	1626	N20	W27		8131		21	SF		C	1626	.36	.38			EK
HUAN	21			1630															
HUAN	21	1652	1704	1655	N28	W31		8130		12	SF		C	1655	.31	.36			D
HUAN	21	1722	1737	1725	N29	W30		8130		15	SF		C	1725	.42	.48			E
	21	2340	2345	NO FLARE PATROL															
	22	0100	0105	NO FLARE PATROL															
MANI	22	0230	0241	0232	N18	W35		8131		11	SF	3		0233	.31	.40			
CAPS	22	0902	0910		S22	E37		8139		8	SN	3		0908	.80	1.00		173	EL
ARCE	22	1138E			S25	E39		8139			SN		P	1138	.47	.61			D
	22	1320	1330	NO FLARE PATROL															
KANZ	22	1345E	1351D		S23	E40		8139		6D	SN								
KANZ	22	1352E	1358D		S23	E39		8139		6D	SF								
LOCK	22	1649	1710	1651	N19	W39		8131		21	SN		C	1651	.70	1.00		20	I
SACP	22	1651	1714U	1654	N19	W40		8131		23U	SN		C		1.09	1.28			
HUAN	22	1702E			N21	W41		8131			SF		P	1702	.31	.38			E
HALE	22	1911	1931	1917	N20	W47		8131		20	1N		C	1917	1.50	2.40			
SACP	22	1911	1959U	1941	N18	W46		8131		48U	SN		C		.66	.84			
HALE	22	1932	2005	1938	N19	W50		8131		33	SN		C	1938	.90	1.50			
CULG	22	2316	2337	2320	S22	E32		8139		21	SN		C	2320	.21	.25			
	23	0405	0500	NO FLARE PATROL															
ARCE	23	0841E	0900D		S23	E25		8139		19D	SN		C	0854	.80	.92			H
CAPS	23	1026E	1106		S20	E25		8139		40D	1N	2		1040	3.00	3.30		165	
CAPS	23	1029	1040D		N15	E50				11D	SF	2							
CAPS	23	1206	1216		S20	E25		8139		10	SF	3		1212	.50	.60		160	
CAPS	23	1450E	1509		S20	E24		8139		19D	SF	3		1452	.60	.70		152	
SACP	23	1651	1701	1655U	S35	E66				10	SN		C		.42	.72			
HALE	23	1817	1851	1822	N18	W54		8131		34	SN		C	1822	.41	.70			H
CULG	23	2239E	2316	2245	N21	W65		8131		37D	SN		P	2245	.21				
CULG	23	2303	2333	2313	N19	W61		8131		30	SN		C	2313	.31	.68			

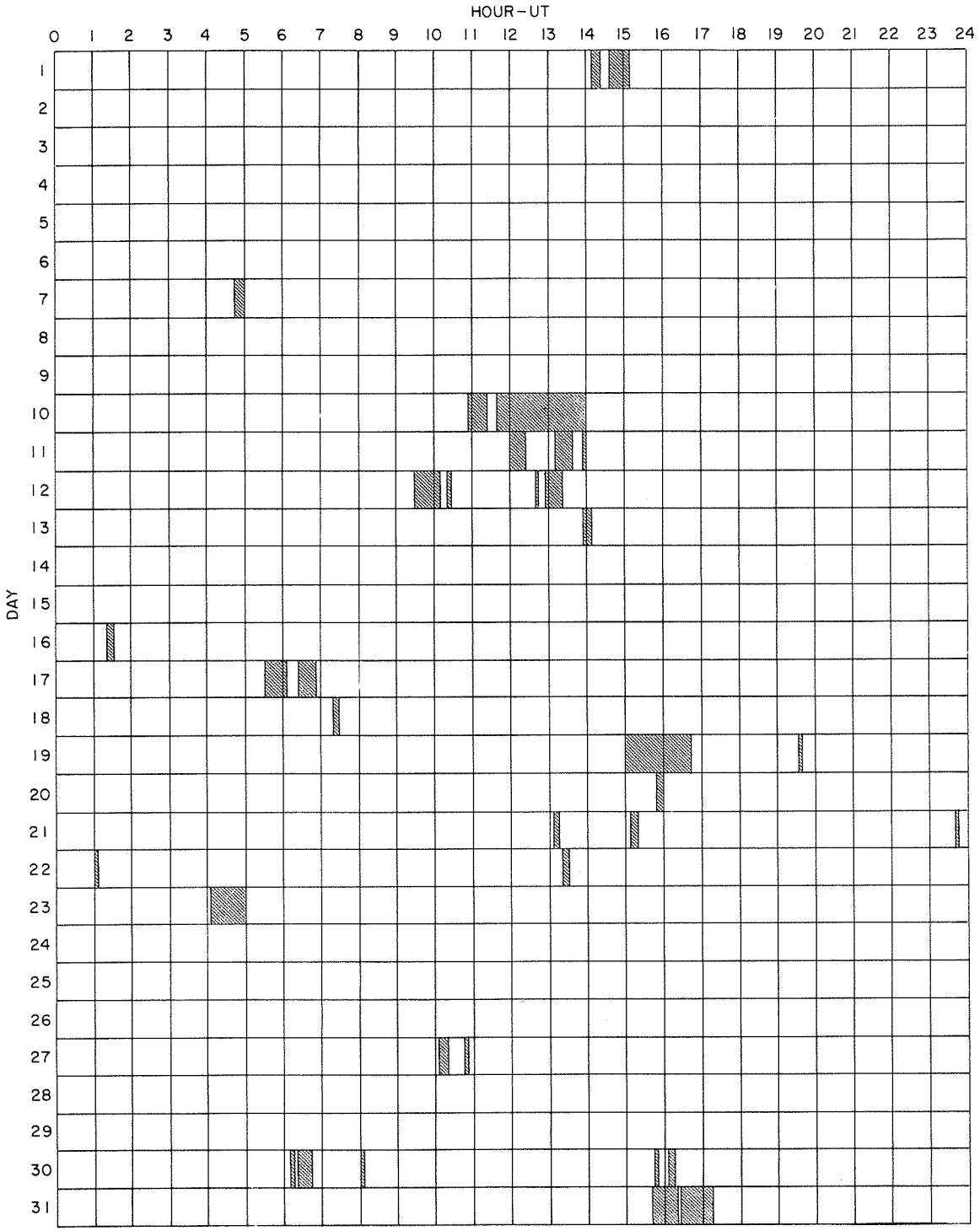
SOLAR FLARES

JANUARY 1966

OBSERVATORY	DATE 1966 JAN	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	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
HALE	24	0010	0022	0014	N24	W50		8131		12	SN		C	0014	•10	•20			
HALE	24	0032	0043	0034	N16	W50		8131		11	SN		C	0034	•20	•30			
CULG	24	0032	0044	0034	N19	W59		8131		12	SN		C	0034	•21	•40			
HALE	24	0218	0233	0224	N18	W61		8131		15	SN		C	0024	•41	•90			
CULG	24	0220	0233	0225	N18	W59		8131		13	SN		C	0225	•21	•40			
CULG	24	0247	0330D	0300	S20	E15		8139		43D	SF		P	0330	•21	•21			C
HALE	24	0312	0316	0313	S23	E19		8139		4	SF		C	0313	•50	•60			
MANI	24	0420E	0431	0423	N32	W42		8133		11D	SB	3		0423	•42	•60			
CULG	24	0602	0620D	0604	N36	W30		8133		18D	SN		P	0604	•21	•30			G
ARCE	24	1050E	1120D	1052	S24	E12		8139		30D	SN		C	1052	•61	•65			EH
ARCE	24	1110	1120D		N32	W22		8133		10D	SN		P	1110	•61	•85			CEH
CAPS	24	1155E	1210		N30	W35		8133		15D	SF	3		1204	•40	•60		154	EG
HALE	24	1802	1830	1805	S24	E07		8139		28	SN		C	1805	•30	•30			
HALE	24	1835	1851	1839	S24	E07		8139		16	SN		C	1839	•30	•30			
MCMA	24	1941	1949	1943	N32	W40		8133		8	SN		S	1943	•42	•70			D
HALE	24	1942	1950	1944	N33	W41		8133		8	SB		C	1944	1•20	2•00			
HUAN	24	1943E	1948U		N31	W40		8133		5U	SF		P	1943	•26	•33			D
HALE	24	2118	2127	2121	N20	W70		8131		9	SF		C	2121	•41				
HALE	24	2130	2158	2135	N34	W42		8133		28	1B		C	2135	1•40	2•40			
HALE	24	2214	2238	2223	S21	E05		8139		24	SF		C	2223	•20	•20			
HALE	25	0213	0236	0222	N22	W75		8131		23	SN		C	0222	1•30				
KANZ	25	1344	1356D		S26	W02		8139		12D	SF								
LOCK	25	1814	1838	1825	S23	W08		8139		24	SF		C	1825	•20	•20		10	
OTTA	25	1822	1834	1828	S23	W09		8139		12	SN		C	1828	•17	•18			D
HALE	25	1828E	1834		S24	W11		8139		6D	SF		P	1828	•10	•10			
HALE	25	2101	2130	2107	S07	W03				29	SN		C	2107	•20	•20			L
HALE	25	2112	2127	2117	S24	W12		8139		15	SF		C	2117	•40	•40			
HALE	25	2229	2240	2230	S24	W12		8139		11	SF		C	2230	•40	•40			
HALE	26	0026	0032	0028	S25	W14		8139		6	SF		C	0028	•20	•20			H
CULG	26	0647	0703	0652	N46	E39				16	SF		C	0652	•21	•40			CG
CULG	26	0658	0712	0703	N40	W69		8133		14	SN		C	0703	•21				CG
ATHN	26	1016E	1020	1018	S24	W13		8139		4D	SN	2		1018	•33	•40	•90		
CULG	26	2130	2145	2132	N55	E39				15	SF		C	2132	•21	•50			CG
IKOM	26	2350	2400		S24	W23		8139		10	SF		S	2350	1•03	1•20		70	D
CULG	27	0351E	0410D	0407	N27	W75		8133		19D	SN		P	0407	•21				GK
CULG	27	0419E	0437D	0431	N28	W75		8133		18D	SN		P	0431	•31				GK
CULG	27	0513E	0625	0519	N27	W76		8133		72D	SN		P	0519	•31				GK
	27	1005	1020	NO FLARE PATROL															
	27	1045	1050	NO FLARE PATROL															
HUAN	27	1501	1514D	1508U	N28	W87		8133		13D	SN		P	1508	•68				
ARCE	28	0815	0830D	0815	N28	W90		8133		15D	1N		C	0815	•41	2•22			C
SACP	28	1755	1823	1809	N26	E87		8154		28	SN		C		•42				
HALE	28	1756	1823	1807	N27	E90		8154		27	1B		C	1807	•50				
OTTA	28	1757	1823	1810	N28	E90		8154		26	1N		C	1810	•79				A
CULG	28	2242	2252	2245	S23	W51		8139		10	SF		C	2245	•21	•32			C
CULG	29	0043	0051	0044	S24	W53		8139		8	SN		C	0044	•21	•32			C
HALE	29	0232	0248	0236	S25	W49		8139		16	SN		C	0236	•20	•30			
KANZ	29	1000E	1042		S23	W39		8152		42D	SN			1013			1•30		EH
CAPS	29	1014	1035	1025	S26	W41		8152		21	SF	3		1025	•50	•70		147	DG
ARCE	29	1020E			S25	W40		8152			SN		C	1020	•58	•75			D
CAPS	29	1055	1111	1059	S26	W41		8152		16	SF	3		1059	•50	•70		143	DG
KANZ	29	1056E	1103D		S23	W39		8152		7D	SN								
CAPS	29	1249	1305	1300	S27	W42		8152		16	SN	3		1300	1•00	1•40		171	EGK
KANZ	29	1329E	1356		S24	W41		8152		27D	SN			1334			1•90		D
KANZ	29	1413E	1430		S24	W41		8152		17D	SN			1423			1•60		D
OTTA	29	1430	1441	1435	N29	W90		8133		11	1N		C	1435	•56				A
KANZ	29	1455E	1516D		S24	W41		8152		21D	SF								D
HUAN	29	1513E	1515		S26	W42		8152		2D	SF		P	1513	•36	•42			E
OTTA	29	1501	1513	1505	N39	W90		8133		12	1N		C	1505	•89				A
OTTA	29	1515	1539	1530	N41	W90		8133		24	SN		C	1530	•45				A
OTTA	29	1518	1525		N37	W90		8133		7	SN		C	1520	•23				A
OTTA	29	1529	1537	1531	N27	W90		8133		8	SN		C	1531	•33				A
OTTA	29	1752	1838	1811	S24	W55		8139		46	1N		C	1811	1•57	2•76			E
LOCK	29	1800	1831	1811	S23	W53		8139		31	1N		C	1811	1•40	2•40		20	
HALE	29	1800	1859	1811	S23	W59		8139		59	1B		C	1811	1•60	3•00			F
SACP	29	1801	1836	1810	S23	W57		8139		35	1N		C		1•92	2•72			
MCMA	29	1803E	1837		S25	W58		8139		34D	1B		S	1817	1•55	3•00			U
HALE	30	0207	0216	0209	N29	E80		8154		9	SN		C	0209	•20				
	30	0610	0615	NO FLARE PATROL															
	30	0620	0645	NO FLARE PATROL															
	30	0800	0805	NO FLARE PATROL															
KANZ	30	0905E	0932		S27	W25		8148		27D	SN								D
	30	1545	1550	NO FLARE PATROL															
	30	1605	1615	NO FLARE PATROL															
HALE	30	2308	2321	2311	S24	W63		8139		13	SN		C	2311	•20	•40			
CULG	31	0258	0307	0301	S25	W65		8152		9	SN		C	0301	•21	•45			H
	31	1540	1620	NO FLARE PATROL															
	31	1625	1715	NO FLARE PATROL															
HALE	31	1839	1913	1857	S26	W70		8152		34	SN		C	1857	•10				
HALE	31	2023	2033	2026	S26	W70		8152		10	SF		C	2026	•10				
HALE	31	2035	2041	2036	S26	W70		8152		6	SF		C	2036	•10				
CULG	31	2306	2314	2308	S21	W78		8152		8	SF		C	2308	•21				C
HALE	31	2307	2318	2309	S21	W75		8152		11	SF		C	2309	•10				

INTERVALS OF NO FLARE PATROL OBSERVATIONS

JANUARY 1966



Observatories included:

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

SOLAR RADIATION MONITORING SATELLITE

X-RAY OBSERVATIONS

ABERDEEN, SOUTH DAKOTA — JANUARY–APRIL 1966

OUTSTANDING EVENTS					
Date	Times of Observation	44-60A	8-12 A	0-8A	0-3A
Jan. 17	1313 1325	$>3.4 \times 10^{-1}$	$>1.3 \times 10^{-2}$	8.5×10^{-4}	2.5×10^{-5}
	1456 1506	2.4×10^{-1}	$>1.3 \times 10^{-2}$	7.7×10^{-4}	6.9×10^{-6}
18	1245 1255	1.6×10^{-1}	7.6×10^{-3}	3.5×10^{-4}	6.9×10^{-6}
	1428 1438	2.7×10^{-1}	1.3×10^{-2}	8.2×10^{-1}	8.5×10^{-6}
Feb. 12	0023 0035	---	1.4×10^{-3}	3.1×10^{-4}	6.9×10^{-6}
20	1956 2011	1.4×10^{-1}	1.3×10^{-3}	3.5×10^{-4}	$<7.5 \times 10^{-6}$
27	0001 0014	1.9×10^{-1}	2.2×10^{-3}	7.6×10^{-4}	$<8.3 \times 10^{-6}$
	2332 2344	3.5×10^{-1}	1.0×10^{-2}	1.0×10^{-2}	1.7×10^{-4}
28	1744 1758	---	2.5×10^{-3}	7.4×10^{-4}	$<7.6 \times 10^{-6}$
	2302 2313	3.3×10^{-1}	1.4×10^{-2}	$>1.2 \times 10^{-2}$	1.7×10^{-4}
March 1	1533 1543	---	3.5×10^{-3}	8.0×10^{-4}	5.3×10^{-7}
	1859 1912	3.5×10^{-1}	3.5×10^{-3}	1.1×10^{-3}	3.6×10^{-7}
2	0016 0029	---	5.1×10^{-3}	2.3×10^{-3}	1.2×10^{-6}
15	1534 1546	2.8×10^{-1}	2.8×10^{-3}	1.3×10^{-3}	---
17	1346 1359	---	1.2×10^{-2}	5.5×10^{-3}	3.1×10^{-6}
	1807 1817	---	1.2×10^{-2}	5.5×10^{-3}	8.2×10^{-6}
18	1920 1933	---	4.0×10^{-3}	9.8×10^{-4}	4.8×10^{-7}
20	1302 1316	---	6.8×10^{-3}	1.4×10^{-3}	5.3×10^{-7}
	1825 1834	---	6.8×10^{-3}	1.8×10^{-3}	7.9×10^{-7}
	2005 2018	---	1.3×10^{-2}	8.4×10^{-3}	4.8×10^{-6}
21	1232 1247	---	8.9×10^{-3}	2.6×10^{-3}	7.9×10^{-7}
	1751 1805	---	5.7×10^{-3}	1.0×10^{-3}	4.0×10^{-7}
26	1852 1903	3.5×10^{-1}	3.2×10^{-3}	1.3×10^{-3}	5.0×10^{-6}
28	1423 1433	3.1×10^{-1}	3.7×10^{-3}	1.3×10^{-3}	7.2×10^{-7}
29	1538 1551	---	4.9×10^{-3}	1.9×10^{-3}	7.4×10^{-7}
30	1508 1522	---	8.1×10^{-3}	1.7×10^{-3}	6.0×10^{-7}
31	1255 1306	---	6.7×10^{-3}	1.4×10^{-3}	5.3×10^{-7}
	1439 1452	---	4.6×10^{-3}	1.2×10^{-3}	8.4×10^{-7}
April 3	1311 1321	3.5×10^{-1}	5.7×10^{-3}	1.5×10^{-3}	3.6×10^{-5}
4	1240 1251	2.6×10^{-1}	$>3.3 \times 10^{-3}$	1.2×10^{-3}	2.3×10^{-5}
6	1324 1332	2.2×10^{-1}	2.3×10^{-3}	8.0×10^{-4}	2.4×10^{-5}
7	1255 1308	2.9×10^{-1}	---	$>1.7 \times 10^{-3}$	2.5×10^{-5}
11	1242-1255	---	---	$>1.3 \times 10^{-2}$	$>1.7 \times 10^{-4}$
11	1435 1438	---	5.1×10^{-3}	1.0×10^{-3}	3.8×10^{-5}
12	1212 1226	3.0×10^{-1}	4.8×10^{-3}	1.2×10^{-3}	5.5×10^{-5}
14	1257 1310	2.2×10^{-1}	3.0×10^{-3}	7.3×10^{-4}	1.2×10^{-5}

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

MARCH 1966

MAR. 1966	UNIVERSAL TIME			TYPE SWF	IMPORTANCE						BUR	WIDE SPREAD INDEX	STATIONS	KNOWN FLARE
	START	END	MAX	IMP	ABS	SCNA	SEA	SPA	SES	SFD				
01	2102	2108	2103							003		1	BO(WWV10-0.3)	
02	0313	0441	0322					140				5	MA(NPG19-140),	0335
02	0313	0443	0314	S 2								5	MA CA OK TO	
02	1317	1400	1326					12				1	UM(NSS21-12)	
05	1602	1611	1604	S 1-								5	FM BO MC WS	
15	0143	0152	0145	S 1-								5	MA CA	0145
15	1335		1643					48				1	UM(NBA24-48,GBZ20-28)	1338
15	1450	1522	1512	S 1-								5	FM BE BO	1446
15	1503	1510	1504D							003		1	BO(WWV10-0.3)	
15	1537	1545D	1540							011		1	BO(WWV10-1.1)	
15	1630	1631									1	1	MC	
15	1636	1644	1637D							034		1	BO(WWV10-3.4)	
15	1636	1730	1642					36				5	BO(NBA24-36,NPM26-22, NSS21-17),HA(WWVL20-22)	1636
15	1637	1642	1652		03	1						1	BO	
15	1638	1655	1642	S 1								5	HU FM MC WS	
15	1640	1727					1-					1	BO	
15	1849	1856	1850							006		1	BO(WWV10-0.6)	
15	1901	1903	1902							003		1	BO(WWV10-0.3)	
15	1904		1904D							004		1	BO(WWV10-0.4)	
15	1907E	1912	1907D							003		1	BO(WWV10-0.3)	
15	2008	2011	2009							002		1	BO(WWV10-0.2)	
15	2120	2123									1+	4	MC BO	2122
15	2242	2245	2242D							002		1	BO(WWV10-0.2)	
15	2258	2300	2259							002		1	BO(WWV10-0.2)	
16	0105	0200	0108					76				1	MA(NPG19-76)	0109
16	0107	0119	0112	S 1								5	MA CA OK TO	
16	0200	0234	0210					29					MA(NPG19-29)	0219
16	0316	0323									1+	1	MA	0315
16	0345	0350									1+	1	MA	
16	0426	0429									1	1	MA	
16	0426	0457	0435					36					MA(NPG19-36)	
16	1511	1512									1	1	MC	
16	1514	1516									1	1	MC	1501
16	1527	1533	1528D							005		1	BO(WWV10-0.5)	
16	1534	1537									1	1	MC	
16	1534	1540	1537							004		1	BO(WWV10-0.4)	
16	1548	1549									1	1	MC	
16	1610	1620	1612							003		1	BO(WWV10-0.3)	
16	1617	1619									1	4	MC BO	1603
16	1625	1630									1+	4	MC BO	
16	1625	1652	1637	SL 1								5	BE BO FM HU MC TR WS	
16	1625	1745	1629					58				5	UM(GBZ20-58,NSS21-42), BO(NPM26-14,NSS21-8)	
16	1626	1635D	1627							017		1	BO(WWV10-1.7)	
16	1701	1708	1703D							002		1	BO(WWV10-0.2)	
16	1805	1813	1806D							006		1	BO(WWV10-0.6)	
16	1920	1929									1+	4	BO MC	
16	1921	2018	1927					44				5	BO(NPM26-44,NBA24-22, NSS21-4),HA(WWV620-22)	1913
16	1922E	1929	1923							017		1	BO(WWV10-1.7)	
16	1925	1959	1929						1-			1	A3	
16	1925	2002					1					1	BO	
16	1929	2012	1932		06	1						1	BO	
16	1935D	1939D	1936D							006		1	BO(WWV10-0.6)	
16	1940	1952	1942	SL 1								5	MC FM WS	
16	2150E	2209	2150D							008		1	BO(WWV10-0.8)	
16	2150	2229D	2155					25				1	BO(NPM26-25,NBA24-8)	2145
16	2159	2200									1	4	MC BO	
16	2226	2240	2230D							006		1	BO(WWV10-0.6)	
16	2229	2400	2235					32				5	MA(NPG19-32), BO(NPM26-29), HA(WWVL20-18)	2225
16	2255	2258									1	4	MC BO	
16	2255E	2301	2256							002		1	BO(WWV10-0.2)	2252
17	0040E	0615									1	1	MA (NOISE STORM)	0023
17	0131	0139									1+	1	MA	0134
17	0134	0149	0139					20				1	MA(NPG19-20)	
17	0134	0151	0140	SL 1-								5	MA OK WS	
17	0241	0246									1+	1	MA	0206E
17	0246	0248									1	1	MA	
17	0248	0251									1	1	MA	
17	0307	0313									1+	1	MA	0307
17	0316	0320									1	1	MA	
17	0339	0344									1	1	MA	
17	0354	0400									1+	1	MA (DOUBLE BURST)	0356E
17	0423	0428									1	1.	MA (DOUBLE BURST)	0428
17	0427	0459	0437					48				1	MA(NPG19-48)	
17	0517	0522									1+	1	MA	0517
17	0545	0548									1	1	MA	
17	0559	0605									1+	1	MA	0559
17	1146	2306									1	4	MC BO (NOISE STORM)	
17	1154	1307U	1233					106				1	UM(GBZ20-106,NBA24-30)	1213
17	1205	1320	1216				2					1	AR	
17	1210	1300	1227						1+			1	UM	
17	1609	1610									1	1	MC	

IONOSPHERIC EFFECTS OF SOLAR FLARES

MARCH 1966

MAR. 1966	UNIVERSAL TIME START	END	MAX	TYPE SWF IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	WIDE SPREAD INDEX	STATIONS	KNOWN FLARE
17	1645	1652									1+	4	BO MC	1641
17	1653	1720	1702	SL 1								5	HU MC WS	
17	1700	1703									1	4	MC BO	
17	1737	1742									1	4	MC BO (DOUBLE BURST)	
17	1744	1749									1	4	MC BO	1742
17	1747	1835	1807				1					3	A5 A8	
17	1750	1855	1800						1+			1	A1	
17	1751	1755									1	4	BO MC	
17	1752	1825	1805	SL 1+								5	MC BE BO FM HU TR WS	
17	1756	1910	1810					32				5	BO(NPM26-32,NBA24-22), HA(WWVL20-40)	
17	1759	1819	1801							008		1	BO(WWV10-0.8)	
17	1827	1831	1828							004		1	BO(WWV10-0.4)	
17	1917	1920									1	4	MC BO HA(WWVL20-14)	1910
17	1919	2148D	1929					29				5	BO(NPM26-29,NBA24-8),	
17	1925	1931	1926	S 1-								3	MC WS	
17	1934	1938									1+	4	MC BO	
17	2003	2005									1	4	MC BO	
17	2005	2008									1	4	MC BO	
17	2008	2009									1	4	MC BO	
17	2011	2023D	2012							003		1	BO(WWV10-0.3)	
17	2148	2300	2155					40				5	BO(NPM26-40,NBA24-12), HA(WWVL20-22)	2143
17	2149	2159									1	4	MC BO	
17	2236	2238									1	4	BO (AN)	
18	0030E	0645									1	1	MA (NOISE STORM)	
18	0132	0135									1	1	MA	
18	0423	0515		S 1								5	CA MA OK TO	0420
18	0424	0428									1+	1	MA	
18	0433	0438									1	1	MA	
18	0439	0444									1+	1	MA	
18	1400	2351									1	5	BO MC (HU)(NOISE STORM)	1257
18	1420	1421									1	5	MC RO	
18	1552	1556									1+	4	MC BO	1541
18	1724	1732									1	4	BO MC	
18	1752	1800D	1755							006		1	BO(WWV10-0.6)	
18	1851	1852									1	4	MC BO	
18	1852	1853									1	4	MC BO	
18	1855	1857									1	5	MC BO (AN)	1856
18	1859	1903									1+	4	MC BO	
18	1906	1908									1	4	MC BO	
18	1910	1912									1	4	MC BO	
18	1913	1918	1914							005		1	BO(WWV10-0.5)	
18	1928	1934									1+	4	MC BO	
18	1940D	1944	1941							004		1	BO(WWV10-0.4)	
18	2008	2009									1	4	MC BO	
18	2053	2055									1	4	MC BO	2040
18	2056	2100									1+	4	MC BO	
18	2158	2201									1	4	MC BO	
18	2343	2348									1	5	BO (AN)	2337
18	2348	2351									1	5	BO (AN)	
19	0134	0138									1	1	MA	
19	0340	0415	0350	S 3								5	OK MA NZ TO CW+	0337
19	0340	0510	0347					158				5	MA(NPG19-158), BO(NPM26-108)	
19	0343	0359	0348			44	2					1	MA	
19	0343	0454	0401				1					5	MA TA	
19	0628E	1055									1	1	RO (NOISE STORM)	
19	0939	0943									1	1	RO	
19	0948	0959									1	1	RO	
19	1005	1010									1	1	RO	
19	1044	1051									1	1	RO	
19	1148	1155									1	1	RO	
19	1228	2255									1+	5	MC BO (HU)(NOISE STORM)	
19	1356	1420D	1401							003		1	BO(WWV10-0.3)	
19	1400	1420	1402	S 1-								5	BE DA FM MC WS	1357
19	1414	1420									1	5	MC RO	
19	1425	1428									1	5	MC RO	
19	1605	1612									1+	4	MC BO	1539
19	1710	1730	1715	S 1								5	MC TR WS	
19	1819	1821									1	4	MC BO	
19	2132	2133									1	4	MC BO	2130
19	2142	2310	2204					52				5	BO(NPM26-52), HA(WWVL20-32)	
19	2143	2145									1	4	MC BO	
19	2144	2210D	2157							004		1	BO(WWV10-0.4)	
19	2156	2158									1	4	MC BO	
19	2207	2210									1	4	MC BO	
20	0212	0258					1					1	AN	0226E
20	0223	0315	0225	S 1+								5	MA AN OK TO	
20	0224	0325	0228					68				1	MA(NPG19-68)	
20	0945	1115	1000				3					3	AR KU	0928
20	0955	1007	0958			90	3					5	RO DE	
20	0955	1013	1002						1+			1	DE	
20	0955	1020	1002	S 3								5	TO DA EN KU CW** CW***	

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20	1013	1017									1	1	RO	
20	1028	1031									1	1	RO	
20	1031	1038									1+	1	RO	
20	1300	2205									1	5	MC BO (HU)(NOISE STORM)	
20	1537	1542	1539							005		1	BO(WWV10-0.5)	
20	1537	1542	1539							005		1	BO(WWV10-0.5)	
20	1540	1543									1	1	MC	1534
20	1548	1551									1	1	MC	
20	1604	1607	1605							003		1	BO(WWV10-0.3)	
20	1604	1607	1605							003		1	BO(WWV10-0.3)	
20	1730	1734	1730D							006		1	BO(WWV10-0.6)	
20	1759	1820	1801D							036		1	BO(WWV10-3.6)	
20	1759	1852	1807				2					1	A3	1756
20	1800	1842D	1810					54				5	BO(NPM26-54,NBA24-47, NSS21-22),HA(WWVL20-36)	
20	1800	1854	1803						1+			1	A3	
20	1802	1830	1808	S 1+								5	MC BE BO FM WS	
20	1803	1823					1					4	BO MC	
20	1803	1825	1809		10	1						5	BO MC AN	
20	1842	2000D	1900					36				5	BO(NBA24-36,NPM26-25, NSS21-18),HA(WWVB60-43, WWVL20-36)	1847
20	1850D		1852							020		1	BO(WWV10-2.0)	
20	1857D	1906	1858D							032		1	BO(WWV10-3.2)	
20	1858	1900									1	5	MC BO (AN)	
20	1948	1950									1	5	MC BO (AN)	
20	1950	1951									1	4	MC BO	
20	2000	2015	2002							040		1	BO(WWV10-4.0)	
20	2000	2030	2011	SL 1+								5	BE BO FM HU MC WS	1959
20	2000	2100	2010					36				5	BO(NPM26-36,NBA24-28, NSS21-11),HA(WWVB60-65, WWVL20-36)	
20	2102	2103									1	5	MC BO (AN)	
20	2147	2148									1	4	MC BO	
21	0110	0138	0120	S 2								5	AN MA OK	0110
21	0114	0134	0121					36				1	MA(NPG19-36)	
21	0447	0451									1+	1	MA	
21	0458	0500									1	1	MA	
21	0504	0507									1	1	MA	
21	0932	1025	0945						1+			1	DE	0924
21	0933	1030	0943				1+					5	DE MA	
21	0934	1000		SL 1+								5	TO EN	
21	1200	2305D									1+	5	MC BO (HU)(NOISE STORM)	
21	1505	1512D	1507							008		1	BO(WWV10-0.8)	
21	1507	1512D	1512					53				1	UM(NBA24-53,GBZ20-26)	1503
21	1510	1520	1515	SL 1-								5	MC BO FM TR	
21	1543	1637	1604	SL 2								5	BE BO FM MC TR	1541
21	1616	1619	1617							014		1	BO(WWV10-1.4)	
21	1814	1822D	1822						1-			3	A1 A3	1819
21	1822	1935	1832					41				5	BO(NPM26-41,NSS24-7) HA(WWVB60-43,WWVL20-29)	
21	1824	1920	1836				2					3	A5 A3	
21	1825	1842	1830	S 1								5	MC BE BO FM WS	
21	1956	1957									1	4	MC BO	
21	2022D	2031	2027							036		1	BO(WWV10-3.6)	
21	2150	2217D	2200					43				5	MA(NPG19-43), BO(NPM26-36,NBA24-11), HA(WWVB60-54,WWVL20-18)	2138
21	2151	2154									1	5	MC BO (AN) (BI)	
21	2154	2157									1	5	MC BO (AN) (BI)	
21	2158	2160									1	5	MC BO (AN) (BI)	
21	2158E	2201	2159							007		1	BO(WWV10-0.7)	
21	2200	2215	2203		5	1						5	MC BO MA	
21	2217	2357	2236					177				5	MA(NPG19-177), BO(NPM26-70,NBA24-25, NSS21-4),HA(WWVB60-151, WWVL20-65),AN(NPM26-58)	2219
21	2219	2245D	2228							011		1	BO(WWV10-1.1)	
21	2224	2400D					1					1	BO	
21	2227	2246	2234		8	1						1	BO	
21	2227	2300	2235	SL 1+								5	TO AN BO CA MA TR WS	
21	2345	0015	2355	SL 1								5	CA MA WS	2306
22	0334	0337									1	1	MA	
22	0441	0446									1	1	MA	
22	0940	1030	0953				1					1	DE	0946
22	0940	1030	0946						1			1	DE	
22	1112	2304									1+	4	MC BO (NOISE STORM)	
22	1117	1123									1	1	RO	1110
22	1406	1412	1409							012		1	BO(WWV15-1.2)	
22	1613	1614									1	4	MC BO	
22	1620	1621									1	4	MC BO	
22	1625	1627									1	4	MC BO	
22	1632	1633									1	4	MC BO	
22	1757	1758									1	4	MC BO	
22	1803	1804									1	4	MC BO	
22	1808	1811									1	4	MC BO	1809
22	1811	1814									1	4	MC BO	

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	START	END	MAX	IMP	ABS	SCNA	SEA	SPA	SES	SFD				
22	1819	1823									1+	5	MC BO (AN)	
22	1930	2010	1938				1					3	A8 A1 A3 A5	
22	1932	2010	1942						1-			1	A1	
22	1932	2030	1940					28				5	BO(CYZ80-28,NBA24-18, NSS21-11),HA(WWVL20-22)	
22	1936	1957	1943	G 1-								1	MC	
22	1938	2016					1					1	BO	
22	1958	2251	2002		2	1						1	BO	
22	2255	2345	2300					14				1	HA(WWVL20-14)	
23	1200	2325									1	5	BO MC (HU)(NOISE STORM)	
23	1925	2120	2020					43				1	BO(NPM26-43,NBA24-25)	1907
23	2255	2350	2300					43				1	HA(WWVB60-43,WWVL20-14)	2246
24	0218	0224									1+	1	MA	0225
24	0218	0239	0229		75	3						5	MA DE	
24	0225	0255	0235	S 2+								5	OK AN CA MA NZ TO	
24	0225	0411	0240					216				5	HA(WWVB60-216, WWVL20-36), MA(NPG19-198), AN(NPM26-90)	
24	0228	0305	0243						1+			5	DE A3	
24	0228	0312	0249				1+					1	DE	
24	0233	0239									1+	1	MA	
24	0303	0305									1	1	MA	
24	0307	0312									1	1	MA	
24	0315	0319									1	1	MA	
24	0444	0447									1	1	MA	
24	1021	1024									1	1	RO	
24	1113	2204									1+	4	MC BO (NOISE STORM)	
24	1125	1145	1130					14				1	UM(GBZ20-14)	
24	1204	1206									1	1	MC	
24	1257	1258									1	1	MC	1236
24	1533	1536									1	1	MC	1534
24	1540	1550									1+	1	BO	
24	1649	1655	1651							010		1	BO(WWV10-1.0)	
24	1749	1755	1751							005		1	BO(WWV10-0.5)	
24	1756	1759									1	4	MC BO	1733
24	1810	1823	1812							008		1	BO(WWV10-0.8)	
24	1844	1846									1	1	BO	1840E
24	1846	1848									1	1	BO	
24	1910	1914									1+	4	BO MC	1858
24	1914	1917									1+	4	BO MC	
24	1915	1940	1919					32				1	HA(WWVB60-32,WWVL20-14)	
24	1955	2000D	1956D							034		1	BO(WWV10-3.4)	
24	2033	2054	2041	G 1								5	BO AN MC TR	2032
24	2035	2037									1	4	BO MC	
24	2037	2042									1+	4	BO MC	
24	2038	2108	2043					70				5	AN(NPM26-70), BO(NPM26-65,NBA24-27, NSS21-11), HA(WWVB60-140, WWVL20-43),UM(NBA24-26)	
24	2040	2115	2045						1			5	UM A3	
24	2042	2044									1+	4	BO MC	
24	2045	2048									1	4	BO MC	
24	2136	2145D	2142D							026		1	BO(WWV10-2.6)	
25	0025	0045		S 2								5	CA TO	0034E
25	0025	0110	0030					22				1	HA(WWVL20-22)	
25	0146	0329	0154	S 3								5	MA AN CA NZ OK TO	0143
25	0153	0300	0208					100				5	AN(NPM26-100), MA(NPG19-90D), BO(NPM26-54), HA(WWVL20-43)	
25	0153	0318	0211			3						1	MA	
25	0511	0541	0512	S 1+								5	MA OK TO	0513
25	0513	0515									1	1	MA	
25	0513	0607	0519					83				1	MA(NPG19-83)	
25	0515	0518									1	1	MA	
25	0515	0544	0524						1			1	DE	
25	0516	0540	0521				1+					1	A17	
25	0518	0602	0524			1						1	MA	
25	0529	0532									1	1	MA	
25	1002	1007	1115				1+					5	AR A17	0935
25	1311	1315	1312							005		1	BO(WWV10-0.5)	
25	1327	2300									1+	5	MC BO (HU)(NOISE STORM)	
25	1530	1545D	1536							018		1	BO(WWV10-1.8)	
25	1531	1630	1545					42				5	UM(GBZ20-42,NBA24-17), BO(NBA24-16)	1514
25	1644	1648									1+	4	MC BO	1616
25	1654	1656									1	4	MC BO	1654E
25	1712	1714									1	4	MC BO	
25	1909	1911	1909D							004		1	BO(WWV10-0.4)	
25	1929	1931									1	4	MC BO	1931E
25	1929	1935D	1930							018		1	BO(WWV10-1.8)	
25	1930	2115	1935					43				5	HA(WWVB60-43, WWVL20-14),BO(NBA24-24, NPM26-22)	

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25	1931	1933									1	4	MC BO	
25	1936D	1940D	1937							006		1	BO(WWV10-0.6)	
25	2039	2042									1	5	MC BO (HU)	
25	2050	2054									1	1	BO	
25	2113	2119	2114							005		1	BO(WWV10-0.5)	
26	0038	0115	0058			1						1	MA	0038
26	0038	0145	0100	S 2								5	CA MA OK TO	
26	0038	0210	0055					108				5	HA(WWVB60-108, WWVL20-36), MA(NPG19-85), BO(NPM26-75)	
26	0505	0510									1	1	MA	
26	0510	0515									1+	1	MA	
26	1210	1251	1239		24	1						5	MC AN BI	1221
26	1251	1405	1315		24	1						1	MC	
26	1544	1547									1	4	BO MC	
26	1743	1747									1	1	BO	
26	1755	1759									1	1	BO	
26	1830	1834									1	4	BO MC	1843E
26	1848	1920	1859	SL 1								5	HU BO MC WS	
26	1849E	1910	1851							012		1	BO(WWV10-1.2)	
26	1850	1856									1+	4	MC BO	
26	1850	1930	1854					86				5	HA(WWVB60-86, WWVL20-22),BO(NBA24-11, NSS21-10)	
26	1852	1950	1908				1					3	A5 A3 A8	
26	1853	1950	1858						2+			1	A3	
27	1123	1125									1	1	RO	1120E
27	1155	1245	1215						2+			1	UM	
27	1158	1257	1218					71				1	UM(GBZ20-71,NBA24-26)	
27	1200	1238		S 2								1	PU	
27	1206	1245	1215				1-					1	A17	
27	1513	1528	1515	SL 1+								5	BE BO WS	
27	1525	1526									1	5	MC (HU)	
27	1526	1527									1	1	MC	
28	0400	0528	0442	S 1+								5	CA MA OK	0419E
28	0426	0521	0448			1						1	MA	
28	0432	0514	0352				1					1	MA	
28	1505	1507									1	1	MC	1441
28	1805	1815D	1806							006		1	BO(WWV10-0.6)	
28	1907	2020	1920	S 2+								5	BO BE FM MC TR WS	1910
28	1910	2100	1920					100				5	BO(NPM26-100,NBA24-65, NSS21-33), HA(WWVB60-227, WWVL20-94),AN(NPM26-75, GBZ20-58,NSS21-36, WWVL20-36),UM(NBA24-60, GBZ20-35)	
28	1912	1935D	1914							012		1	BO(WWV10-1.2)	
28	1912	1957	1919		27	1						4	BO MC	
28	1912	2045	1924				2+					3	A8 A3 A5 BO MC	
28	1915	1935	1920						2			5	UM A1 A3 A18	
28	2357	0157	0007									5	HA(WWVB60-346, WWVL20-108), MA(NPG19-233), AN(NPM26-108,WWVL20-25)	2355
28	2359	0030	0005		6	1						1	BO	
28	2359	0209	0003	S 2								5	MA BO NZ OK TO WS	
29	0003	0038	0010			2						1	MA	
29	0253	0312	0302					32				1	MA(NPG19-32)	0258
29	0319	0432	0327									5	MA(NPG19-184), AN(NPM26-90), HA(WWVB60-86,WWVL20-40)	0324
29	0323	0344	0328	S 2								5	AN CA NZ OK TO CW+	
29	0324	0350	0330		44	1+						5	DE AN BI	
29	0327	0358	0335						1+			1	DE	
29	0946	0949									1	1	RO	0940E
29	0946	1029	0958		11	1						1	RO	
29	0950	1020	1002						1			1	DE	
29	0950	1028	1002				1+					1	DE	
29	1020	1025									1	1	RO	
29	1048	1120	1102						1			1	DE	1045E
29	1052	1138	1058		45	2						1	RO	
29	1054	1130	1058				2					5	DE AR LO	
29	1056	1143					1					1	RO	
29	1100	1135	1103					108				1	AN(GBZ20-108)	
29	1100	1145	1105	S 2								5	EN TR CW**	
29	1117	1121									1	1	RO	
29	1506	1530	1520						1			1	UM	1504
29	1508	1555	1517					32				1	UM(GBZ20-32,NBA24-26)	
29	1512	1530	1518	SL 1-								5	MC BE TR	
29	1519	1520									1	5	MC (HU)	
29	1524	1535	1525							012		1	BO(WWV10-1.2)	
29	1525	1527									1	5	MC BO (HU)	
29	1528	1531									1	5	MC (HU)	

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	START	END	MAX	IMP	ABS	SCNA	SEA	SPA	SES	SFD				
29	1617	1700	1627					42				5	UM(GBZ20-42,NBA24-26), BO(NPM26-41,NBA24-32, NSS21-14),HA(WWVL20-22)	1549
29	1622	1623									1	5	MC BO (HU)	
29	1622	1650	1632	SL 1+								5	MC BO FM TR	
29	1633	1634									1	5	MC BO (HU)	
29	1700	1703									1	5	MC BO (HU)	
29	1707	1708									1	4	MC BO	
29	1718	1719									1	5	MC BO (HU)	1717
29	1722	1725									1	5	MC BO (HU)	
29	1728	1729									1	5	MC BO (HU)	
29	1731	1733									1	5	MC BO (HU)	
29	1740	1950	1810					86				5	AN(GBZ20-86,WWVL20-43, NSS21-29),UM(GBZ20-85, NBA24-69), HA(WWVB60-281, WWVL20-83),BO(NBA24-25, NSS21-32)	1746
29	1745	1840	1806		43	2						5	BO MC HA	
29	1745	1845	1810						3-			5	UM A18	
29	1745	1900	1805	S 2+								5	BE AN BO FM MC TR WS	
29	1752	1830	1807				1+					3	A5 A8 BO MC	
29	1800	1826D	1801D							007		1	BO(WWV10-0.7)	
29	1813	1815									1	5	MC BO (HU) (AN)	
29	1821	1826									1	5	MC BO (HU) (AN)	
29	1826	1830									1	5	MC BO (HU)	
29	1826	1840	1829							008		1	BO(WWV10-0.8)	
29	1905	1907									1	5	MC BO (HU)	
29	2220	2300	2230					43				5	HA(WWVB60-43, WWVL20-22),MA(NPG19-25)	2151
30	0030	0045	0043			1-						1	MA	0049E
30	0030	0100	0042	S 1+								5	CA MA OK TO WS	
30	0036	0123	0042					43				5	MA(NPG19-43), HA(WWVB60-43,WWVL20-18)	
30	0932	0937									1	1	MA	0945E
30	1242	1346	1251		70	3						5	RO MC	1241
30	1245	1255D	1255						3			5	UM A3	
30	1245	1335	1253	S 3								5	TR BE BO EN FM MC WS CW+ CW** CW***	
30	1245	1400	1255					247				5	UM(GBZ20-247), BO(NSS21-18)	
30	1245	1415	1250				2					5	AR LO RO A3 A5 A8 A17	
30	1249E	1300D	1250							048		1	BO(WWV15-4.8)	
30	1325	1517									1+	4	MC BO (NOISE STORM)	
30	1330E	1337	1331							004		1	BO(WWV10-0.4)	
30	1610	1640	1621	G 2								5	BO FM TR	
30	1716	1830	1729					15				5	HA(WWVB60-151, WWVL20-43),BO(NPM26-78, NSS21-21),UM(GBZ20-42)	1718
30	1717	1740	1723	S 1+								5	BE HU MC TR WS	
30	1720	1800	1730						1			5	UM A3	
30	1949	2200	2020					194				5	HA(WWVB60-194, WWVL20-65),BO(NPM26-95, NSS21-25),UM(NBA24-60)	1930
30	1952	2100	2017	G 2								5	MC BE HU WS	
30	1952	2211					1+					4	BO A3	
30	1955	2040	2015						1+			5	UM A3	
30	1955	2105	2017		20	1						5	BO HA MC	
31	0109	0139	0113					36				1	MA(NPG19-36)	0053
31	0143	0210	0151					32				1	MA(NPG19-32)	0145
31	0818	0837		S 1								1	PU	0810E
31	1323	1325									1	4	MC RO	1245
31	1323	1755									1	5	MC BO RO (HU) (NOISE STORM)	
31	1645	1652									1	1	MC (SERIES OF BURSTS)	
31	1856	1915D	1901D							044		1	BO(WWV10-4.4)	
31	1858	2125					1+					1	BO	1807
31	1900	2030	1910	S 3								5	MC BE BO FM HU TR WS	
31	1900	2040	1930		52	2						5	BO BI HA MC	
31	1900	2200	1930					194				5	HA(WWVB60-194, WWVL20-72), MA(NPG19-120), UM(NBA24-78,GBZ20-28), BO(NSS21-39)	
31	1903	2000	1915				1+					3	A5 A3	
31	1905	1950	1915						2+			5	UM A3	

1. Stations associated with bursts where given in ( ) signify observations on 30 Mc/s riometers.
2. Stations AN and BI under SCNA events are from 30 Mc/s riometer observations at Anchorage and Barter Island, Alaska.

RIOMETER EVENTS

MARCH 1966

GREAT WHALE RIVER 30 Mc/s

MARCH 1966	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS	MARCH 1966	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS
03	0936	2012	1010	17	3	17	2204				
04	0000	0134	0040	10	2	18		0600	0153	22	3
04	0640	2200	0952	10	4	19	0050	0259	0158	5	1
05	0115	0701	0352	8	3	19	0731		1919		
05	1003	1351	1035	9	2	20		0922		21	6
06	0847	1800	1315	17	4	20	1320	2210	1645	19	7
07	1418	2150	1500	3	1	21	0050	0850	0249	28	6
09	1948					22	2128		2142		
10		0511	0041	47	11	23		0000		6	4
10	0801	1000	0905	3	1	23	0218	1740	1000	89	9
10	1354	2210	1515	15	1	25	1038	2010	1412	11	4
11	0042	0500	0212	28	4	26	0429	0541	0508	11	2
11	1944	2344	2145	3	1	26	1213	2250	1318	31	5
12	0838		0937			27	0110	2130	0428	42	8
13		0310		10	5	28	0505	2130	1131	77	8
13	1410					29	0136	1000	0318	28	3
14		2306	0606	64	7	29	1212	1950	1256	21	3
15	0132	2044	0241	10	11	30	0300	1010	0459	14	4
16	0206	0531	0333	10	2	30	1242		1754		
16	1005	2010	1156	14	2	31		1330		11	6
17	1112	1930	1256	8	3						

THIS TABULATION SHOWS ALL EVENTS STARTING ON ANY DAY OF THIS MONTH.
SEE PREVIOUS MONTH TABLE FOR EVENTS WHICH MAY NOT HAVE ENDED BY THE FIRST DAY OF THIS MONTH.
MAX IS THE TIME OF EVENT MAXIMUM.
ABS IS ABSORPTION.
PKS IS PEAKS.

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

APRIL 1966

DATE	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ PEAK	FLUX DENSITY MEAN	INT.	REMARKS
1	108	BOUL	44	1250 E	1330	235 D			1	
	2800	OTTA	20	1340	1432	70	2.6	1.3		
				1340	1350	40	2.0			
				1420	1432	30	2.6			
	2800	OTTA	20	1620	1640	60	5.0	2.5		
	2800	OTTA	21	1630	1755	90	7.8	4.0		
	8800	SGMR	20	1733	1751.5	65	29.4	5.1		
	2695	SGMR	20	1732	1734.2	62	1.0	0.5		
	8800	SGMR	3	1737	1737.5	2	16.0	3.0		
	2800	OTTA	1	1736.8	1737	2	4.4	2.2		
	2800	OTTA	1	1741.8	1742.5	1.2	1.6	0.8		
	2800	OTTA	2	1921.5	1922	1.5	1.4	0.9		
2	2800	OTTA	24	0020		8	12.0			
	108	BOUL	6	0030.4	0031.5	2.3			2	
	2800	OTTA	4	0058.5	0102.3	7.5	72.0	36.0		
	2800	OTTA	29	0106		35	12.0	6.0		
	10700	PENN	45	1135.3	1135.9	33.4	224.0	5.0		
	8800	SGMR	45	1135	1136.3	7	264.0	60.0		
	2695	SGMR	45	1135.2	1136	9	92.0	25.0		
	2690	PENN	45	1135	1135.9	4.2	119.0	37.0		
	606	SGMR	40	1134	2045	686	12.5			
	10700	PENN	29	1139.9	1139.9	28.6	28.0	14.0		
	8800	SGMR	29	1142	1142	56	23.0	12.0		
	2695	SGMR	29	1144.2	1144.2	50	15.0	7.0		
	2690	PENN	29	1139.2	1139.2	56.9	20.0	10.0		
	108	BOUL	44	1248 E	2225	742 D			1	
	2800	OTTA	1	1442	1444	5	1.4	0.7		
	8800	SGMR	3	1458.2	1459	2	36.1	12.0		
	2800	OTTA	3	1458	1458.8	1.5	12.2	6.1		
	2695	SGMR	3	1458.2	1459	2	16.1	5.0		
	8800	SGMR	29	1500.2	1500.2	20	18.0	8.0		
	2800	OTTA	29	1459.5		20	3.4	1.7		
	2695	SGMR	29	1500.2	1500.2	26	6.0	2.0		
	606	SGMR	22	1738	1742	8	12.5	6.0		
	8800	SGMR	20	1742	1746.5	26	2.2	1.0		
	2800	OTTA	21	1740	1758	50	5.0	2.5		
	2800	OTTA	1	1744	1744.8	1.5	1.6	0.8		
	2800	OTTA	1	1751.3	1751.7	1	3.4	1.7		
	2695	SGMR	20	1753	1758	30	5.7	2.0		
	2800	OTTA	1	1815.5	1816	2	1.0	0.5		
	2800	OTTA	21	1902		230	2.6	2.0		
	2800	OTTA	1	2102	2102.5	2	1.8	0.9		
	10700	PENN	3	2113.3	2114.2	13.6	102.0	51.0		
	2800	OTTA	3	2113.5	2214.2	6	54.0	15.0		
	2690	PENN	3	2113.5	2114.3	10.8	50.0	25.0		
	1415	SGMR	1	2113.5	2114.3	5	4.5	2.2		
	2800	OTTA	20	2140	2153	20	3.4	1.7		
	2800	OTTA	3	2214	2214.3	1.5	32.0	14.0		
	2800	OTTA	30	2215.5		13	3.4	1.5		
	2800	OTTA	1	2217	2217.5	1	1.6	0.8		
3	8800	SGMR	20	1058.3	1101.7	11	23.2	7.0		
	2695	SGMR	45	1057	1104.5	15	45.2	15.0		
	1415	SGMR	20	1100	1103.5	12	8.8	2.0		
	606	SGMR	20	1100	1103.9	30	101.0	30.0		
	606	SGMR	40	1130	1505.7	448	22.7			
	8800	SGMR	1	1201	1201.5	2	7.0	1.0		
	108	BOUL	44	1246 E	1658	745 D			2	
	8800	SGMR	20	1300.5	1306	18	11.5	3.0		
	2695	SGMR	20	1300.7	1305.7	19	8.2	2.0		
	606	SGMR	22	1601	1708	125	34.8	5.0		
	2800	OTTA	1	1705	1708	10	1.6	0.8		
	2800	OTTA	1	1754	1755	2	1.2	0.6		
	2800	OTTA	1	1853	1854.2	6	1.8	0.9		
	1415	SGMR	20	1928	1956	168	3.2	1.0		
	606	SGMR	22	1922.4	1954	178	45.8	10.0		
	10700	PENN	3	2156.5	2157	2.2	91.0	46.0		
	2800	OTTA	1	2156.8	2157	1	1.4	0.7		
	2690	PENN	1	2156.7	2157.2	3.3	2.0	1.0		
	2800	OTTA	21	2234	2256	36	3.4	1.7		
	2800	OTTA	1	2251	2251.5	1.5	1.0	0.5		
4	2800	OTTA	24	1500		50	4.6			
	2800	OTTA	20	1827		16	1.8	0.9		
	8800	SGMR	1	1833.5	1834.8	6	7.0	1.5		
	2800	OTTA	1	1833	1834.7	3	4.0	2.0		
	2695	SGMR	1	1834.1	1834.8	5	4.8	1.0		
	2690	PENN	1	1833.6	1834.8	2.1	4.0	2.0		
	108	BOUL	43	1940	2025	332 D			1	
	2800	OTTA	21	2035		135	3.0	2.5		
	2800	OTTA	45	2109	2117.5	11	21.0	10.0		
				2109	2112	7	10.0			
				2116	2117.5	4	21.0			
	2800	OTTA	30	2120		50	12.0	6.0		
	2800	OTTA	1	2121.8	2122.5	2	1.6	0.8		
5	2800	OTTA	45	0110.3	0111.3	8	25.0	9.0		
				0110.3	0111.3	2	25.0			
				0112.3	0112.5	6	22.0			
	108	BOUL	43	2040	2306	255 D			1	

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

APRIL 1966

DATE	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ PEAK	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ MEAN	INT.	REMARKS
6	2800	OTTA	1	1214	1215.3	2	1.6	0.8		
	108	BOUL	44	1242 E	1328	751 D			1	
	2800	OTTA	31	1515	1550	55	3.0	1.5		
	2695	SGMR	41	1554	1605.9	20	23.2			
	4995	SGMR	3	1600.2	1600.3	.5	16.0	3.0		
	2800	OTTA	1	1559	1600.5	3	5.0	2.5		
	2800	OTTA	20	1645	1740	100	1.6	0.8		
	10700	PENN	3	2109.8	2112.6	3.6	17.0	9.0		
	2800	OTTA	4	2109	2112.5	5	10.0	6.6		
	2690	PENN	1	2109.4	2112.7	5.2	7.0	3.0		
	2800	OTTA	29	2114		55	3.4	2.5		
	2800	OTTA	21	2250	2325	125	7.4	3.7		
	2800	OTTA	3	2320	2321	4	14.0	7.0		
	2800	OTTA	1	2414.8	2415	.8	1.4	0.7		
7	2800	OTTA	21	1220	1400	150	3.4	1.7		
	8800	SGMR	20	1237	1245	25	3.6	0.8		
	4995	SGMR	20	1237	1243	45	8.5	1.5		
	2800	OTTA	20	1238	1243	20	2.6	1.3		
	2695	SGMR	20	1237	1243	25	7.0	2.0		
	1415	SGMR	20	1237	1243	23	1.0	0.4		
	108	BOUL	44	1240 E	1330	754 D			1	
	2800	OTTA	20	1540		170	2.8	1.4		
	2800	OTTA	20	2020		130	2.6	1.3		
	2800	OTTA	20	2310	2415	130	2.8	1.4		
8	606	SGMR	1	1215	1215.1	.5	6.3	1.0		
	2800	OTTA	1	1609	1609.5	1	1.4	0.7		
	2800	OTTA	21	1615	1635	145	4.8	2.4		
	2800	OTTA	2	1629	1629.5	5	7.0	3.5		
	606	SGMR	41	1749.6	1749.7	.3	10.3			
	2800	OTTA	20	1812	1814	25	1.6	0.8		
	2695	SGMR	41	1923.6	1923.8	3	119.0	25.0		
	2695	SGMR	41	1933.4	1943.8	12	49.5			
	2800	OTTA	1	2028	2028.5	1	1.4	0.7		
	2800	OTTA	20	2150	2215	120	3.8	2.0		
9	2800	OTTA	20	0023	0033	65	2.6	1.3		
	2800	OTTA	1	0024	0024.2	1	2.0	1.0		
10	8800	SGMR	3	1222	1222.6	.8	18.0	6.0		
	4995	SGMR	3	1222	1222.6	1	11.7	3.8		
	8800	SGMR	20	1222	1228	23	9.9	4.5		
	4995	SGMR	20	1222	1228	23	5.7	2.5		
	2800	OTTA	20	1222	1225	15	2.2	1.1		
	2695	SGMR	20	1224.8	1226.8	20	11.9	5.1		
	2800	OTTA	1	1245	1245.7	1.5	1.0	0.5		
	1415	SGMR	1	1245.1	1245.5	1	2.2	0.9		
	606	SGMR	1	1245.1	1245.5	1	2.0	0.8		
	2800	OTTA	21	1340	1345	60	2.8	1.4		
	606	SGMR	41	1344	1345.3	4	8.6	2.1		
	2800	OTTA	1	1351.5	1351.7	.5	3.0	1.5		
	1415	SGMR	1	1351.5	1351.8	.6	6.0	1.2		
	606	SGMR	1	1351.5	1351.8	.6	3.7	0.7		
	2800	OTTA	1	1515	1515.5	1	3.2	1.6		
	1415	SGMR	1	1515.3	1515.6	.6	5.6	2.2		
	606	SGMR	1	1515.4	1515.6	.2	4.2	1.8		
	2800	OTTA	20	1530	1550	70	2.4	1.2		
	2695	SGMR	20	1538	1544.2	9	3.4	1.3		
	8800	SGMR	1	1544.2	1544.8	3	7.9	2.0		
	4995	SGMR	1	1543.1	1543.9	4	6.2	2.0		
11	8800	SGMR	3	1252.2	1252.8	1.6	13.9	2.9		
	4995	SGMR	1	1252.5	1252.8	1.3	7.0	3.0		
	606	SGMR	41	1421.5	1421.7	1.2	1.5	1.0		
12	108	BOUL	6	1537	1539	3.2			1	
	10700	PENN	3	1629.9	1630.1	1.2	32.0	7.0		
	2690	PENN	3	1629.9	1630.7	7.1	19.0	10.0		
	8800	SGMR	3	1630	1630.7	3	24.1	6.0		
	4995	SGMR	45	1630.5	1631.7	5.5	24.8	4.7		
	2800	OTTA	3	1630	1630.8	6	20.0	7.0		
	2695	SGMR	3	1630	1630.7	6	19.6	5.0		
	10700	PENN	45	1717.6	1718.5	2.8	137.0	44.0		
	8800	SGMR	41	1718	1718.5	2	127.0	25.0		
	4995	SGMR	41	1718.1	1718.6	6.8	35.4	7.0		
	8800	SGMR	29	1720	1720	32	12.4	3.0		
	2800	OTTA	1	2128	2129	2	1.0	0.5		
13	2800	OTTA	20	1330	1340	25	1.4	0.7		
	2800	OTTA	1	2031	2032.5	3	.8	0.4		
	2800	OTTA	1	2137	2138.3	2	2.0	1.0		
	2800	OTTA	29	2139		13	1.6	0.8		
14	2800	OTTA	1	0024.8	0025.2	1.5	1.2	0.6		
	2800	OTTA	20	1240	1249	60	2.4	1.2		
	2695	SGMR	20	1240	1248	25	4.5	1.0		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

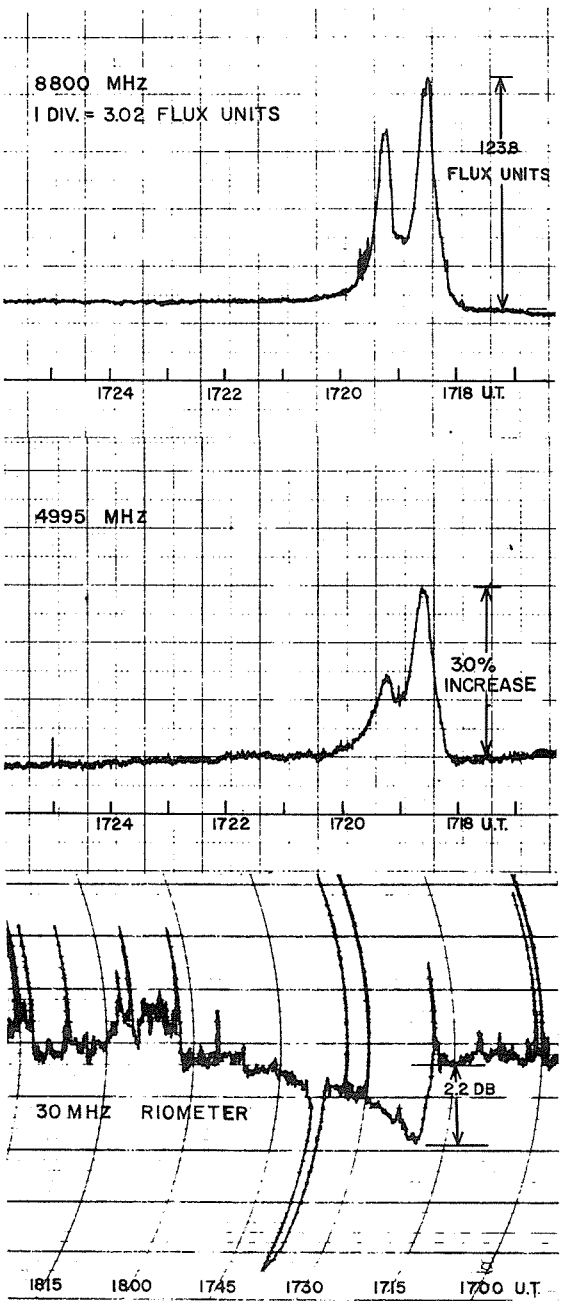
APRIL 1966

DATE	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}(c/s)^{-1}$ PEAK	FLUX DENSITY MEAN	INT.	REMARKS
16	8800	SGMR	1	1831	1831.9	3	3.0	0.6		
	4995	SGMR	1	1830.5	1831.8	2	5.2	1.3		
	2800	OTTA	21	1829		20	1.6	0.8		
	2800	OTTA	1	1831	1831.5	2	1.4	0.7		
	2695	SGMR	1	1829	1830.5	7	5.0	1.0		
17	2800	OTTA	20	1300	1307	20	1.6	0.8		
	2800	OTTA	22	1430	1439	120	3.2	1.6		
	4995	SGMR	20	1732	1752.7	158	12.5	3.0		
	2800	OTTA	21	1740		45	2.4	1.2		
	2695	SGMR	20	1749	1752.7	22	4.1	1.0		
	8800	SGMR	20	1750	1752.5	18	6.0	1.5		
	2800	OTTA	21	1750	1752	8	3.4	1.7		
	2690	PENN	20	1750	1752.6	9.1	8.0	4.0		
	4995	SGMR	3	1751	1752.7	4	11.0	2.6		
	2800	OTTA	1	1752	1752.7	1	3.2	1.6		
	2695	SGMR	1	1752.5	1752.7	.7	3.1	0.6		
	2800	OTTA	31	1825	1850	65	1.2	0.6		
	2800	OTTA	40	2057	2058	1.5	2.8			
18	2800	OTTA	22	1135	1242	195	5.0	2.5		
	2800	OTTA	20	1755	1756	35	1.0	0.5		
	2800	OTTA	20	1953	1956	17	1.4	0.9		
	2800	OTTA	21	2133	2215	105	2.8	1.4		
	2800	OTTA	3	2133	2135	5	8.4	4.2		
	2690	PENN	20	2133.2	2134.7	9.5	9.0	5.0		
20	2800	OTTA	21	1820	1855	75	1.6	1.0		
	2800	OTTA	1	1854	1856	2.3	3.2	2.0		
	2690	PENN	1	1854.4	1855.7	3.5	4.0	2.0		
	2800	OTTA	29	1856.3		14	1.8	0.9		
	2800	OTTA	20	1955		45	1.0	0.5		
21	108	BOUL	6	1352.2	1353	2.7			3	
	2800	OTTA	1	1535	1536.5	3	1.2	0.6		
	2800	OTTA	1	1825	1826.5	2.5	1.0	0.5		
	2800	OTTA	1	1843	1843.6	2.5	1.4	0.7		
	960	PENN	45	1944.2	1945.8	4.5	10.0	5.0		
	2690	PENN	5	1945.8	1946.1	.4	2.0	1.0		
	328	PENN	45	1945.2	1948.7	4.6	39.0	15.0		
	2690	PENN	5	2019.3	2019.5	.3	8.0	4.0		
	328	PENN	45	2018.7	2019.3	1.8	66.0	26.0		
22	2800	OTTA	1	2221.8	2222.2	1.5	.8	0.4		
23	328	PENN	5	2218.5	2220.8	3.7	15.0	8.0		
	328	PENN	5	2222.6	2225.3	14.4	37.0	2.0		
	328	PENN	5	2237	2238.5	2.5	15.0	8.0		
	328	PENN	45	2240	2241.1	3.3	310.0	172.0		
	328	PENN	5	2243.7	2245	3.3	45.0	22.0		
	328	PENN	45	2247.1	2249	3.9	208.0	120.0		
24	8800	SGMR	1	1357	1357.5	1	6.3	1.5		
	4995	SGMR	1	1357	1357.6	2	6.6	1.6		
	2800	OTTA	1	1357	1358	2	2.2	1.1		
	2695	SGMR	1	1357	1358	2	4.4	1.0		
	8800	SGMR	3	1410.6	1411.2	.9	12.4	3.0		
	4995	SGMR	3	1410.5	1411.2	1.3	17.8	3.9		
	2695	SGMR	3	1410.7	1411.2	1.5	22.0	5.0		
	8800	SGMR	40	1411.5	1414.2	6.5	6.3			
	4995	SGMR	40	1411.8	1414.2	6.2	8.2			
	8800	SGMR	29	1411.5	1411.5	10.5	6.3	1.5		
	4995	SGMR	29	1411.8	1411.8	8.5	5.5	1.3		
	2800	OTTA		1412 E	1414.5	58 D	9.8			RECORD INCOMPLETE
	2695	SGMR	29	1412.2	1412.2	16.8	5.4	1.2		
	2695	SGMR	40	1412.5	1416.8	6.5	4.4			
	2690	PENN	45	1410.5	1411.3	10.2	16.0	4.0		
	1415	SGMR	40	1411	1411.4	8	4.8			
	2800	OTTA	31	1510	1600	65	1.8	0.9		
	2800	OTTA	20	2100	2102	15	1.0	0.5		
	2800	OTTA	21	2127	2145	60	2.4	1.2		
	2800	OTTA	1	2228	2229	2	1.6	0.8		
25	2800	OTTA	20	1135	1140	60	1.6	1.0		
	2800	OTTA	20	1435	1540	210	4.6	2.3		
	2800	OTTA	1	1954	1956	5	1.0	0.5		
	2800	OTTA	20	2245	2315	105	3.0	1.5		
26	2800	OTTA	21	1415	1540	165	2.8	1.4		
	2800	OTTA	20	1530	1540	30	1.6	0.8		
	2800	OTTA	20	1950	2030	90	1.6	0.8		
28	328	PENN	45	1834.2	1838.5	13.3	100.0	33.0		
	2800	OTTA	24	2215		15	1.6			
29	2800	OTTA	20	1500	1520	35	1.8	0.9		

Errata: In the April issue of Solar Geophysical Data four pages of Solar Radio Emission data appeared in wrong locations. IVe and IVf were interchanged and IVk and IVo were interchanged.

SELECTED SOLAR NOISE BURSTS
AFCRL SAGAMORE HILL

APRIL 1966



COMPLEX BURST OBSERVED AT APPROXIMATELY 1718 U.T.,
APRIL 12, 1966 AT AFCRL HAMILTON, MASS.
NO SIGNIFICANT FLUX INCREASE OBSERVED AT 2695, 1415, OR 606 MHz

IVe

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

HALEAKALA — MARCH 1966 — 107 Mc s

DATE	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ PEAK	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ MEAN	INT.	REMARKS
15	107 HALE	48	2124	2125	3			3	
16	107 HALE	48	1520	1520	5			2	
	107 HALE	48	1925	1925.2	4.3			3	
	107 HALE	6	2202	2205	3			2	
	107 HALE	48	2259	2300	4.9			3	
17	107 HALE	6	0055	0056	3.7			3	
	107 HALE	6	0137	0138.5	3			3	
	107 HALE	41	0230	0252	32			2	
	107 HALE	6	0311	0312	2			3	
	107 HALE	6	0321	0322	2.1			2	
	107 HALE	6	0428	0429	1.1			3	
	107 HALE	41	1646	1704	19			2	
	107 HALE	41	1750	1758	27			3	
	107 HALE	48	2043	2045	6			2	
	107 HALE	41	2149	2155	6			3	
18	107 HALE	48	0137	0141	5.2			3	
	107 HALE	48	0208	0209	3.1			3	
	107 HALE	48	0427	0428	2.9			3	
	107 HALE	41	1715	1734	25			2	
	107 HALE	41	1854	1910	46			3	
	107 HALE	41	2057	2102	14			3	
	107 HALE	49	2347	2354	15			3	
19	107 HALE	49	0000 U	0030	105			2	
	107 HALE	43	1823	2003	150			2	
	107 HALE	41	2130	2211	46			2	
20	107 HALE	44	1623 E	0210	749 D			3	
21	107 HALE	44	1623 E	2253	749 D			3	
	107 HALE	41	2147	2208	36			3	
22	107 HALE	41	1813	1824	61			3	
	107 HALE	43	2315	0200	335 D			3	
23	107 HALE	44	1621 E	1905	261 D			3	

No observations were made in March before 1600 UT March 12.

Malfunction of equipment or excessive interference prevented measurement of occurrences after 2100 UT March 23.

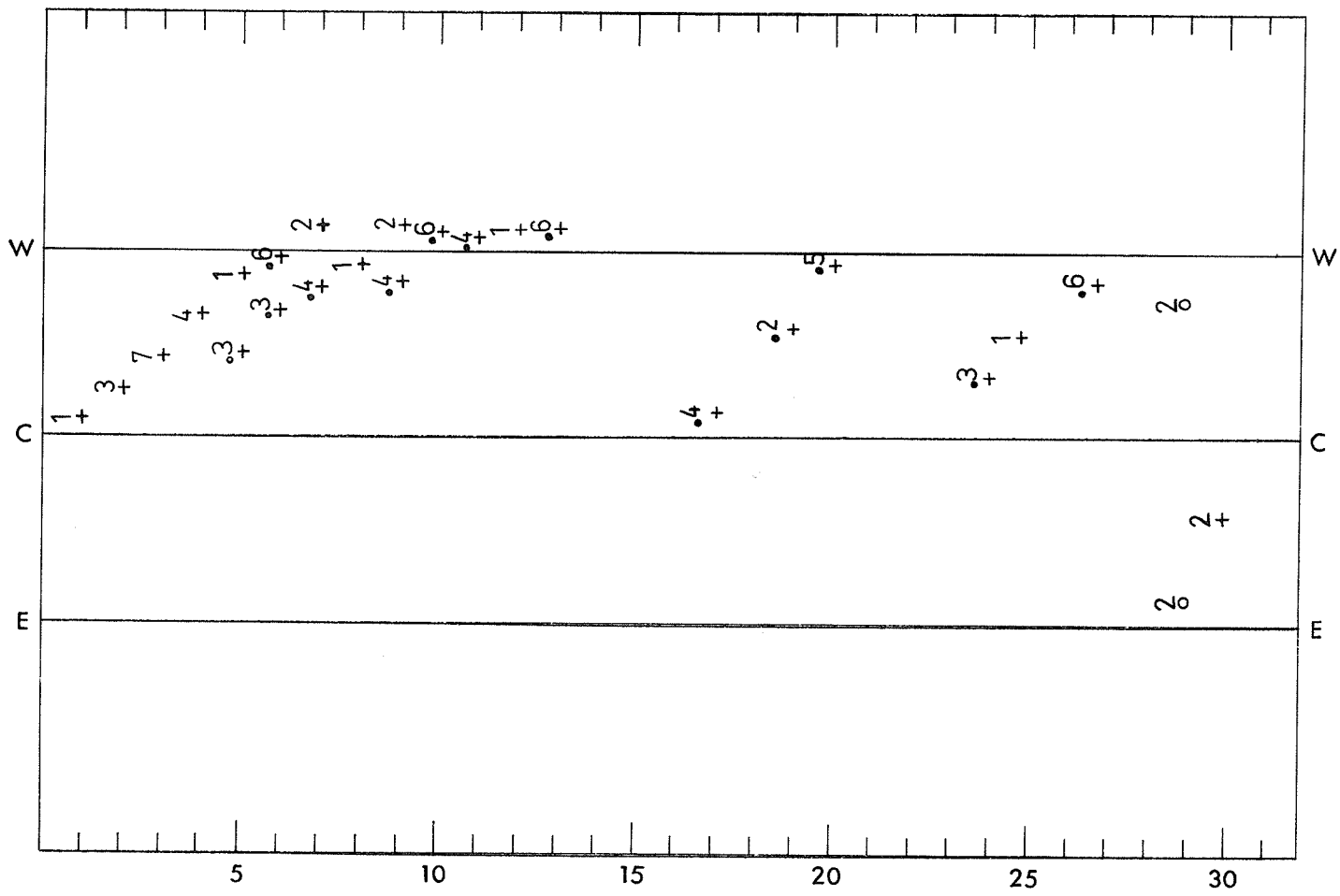
Sunrise-sunset times for March are approximately 1625 UT - 0435 UT.

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

APRIL 1966

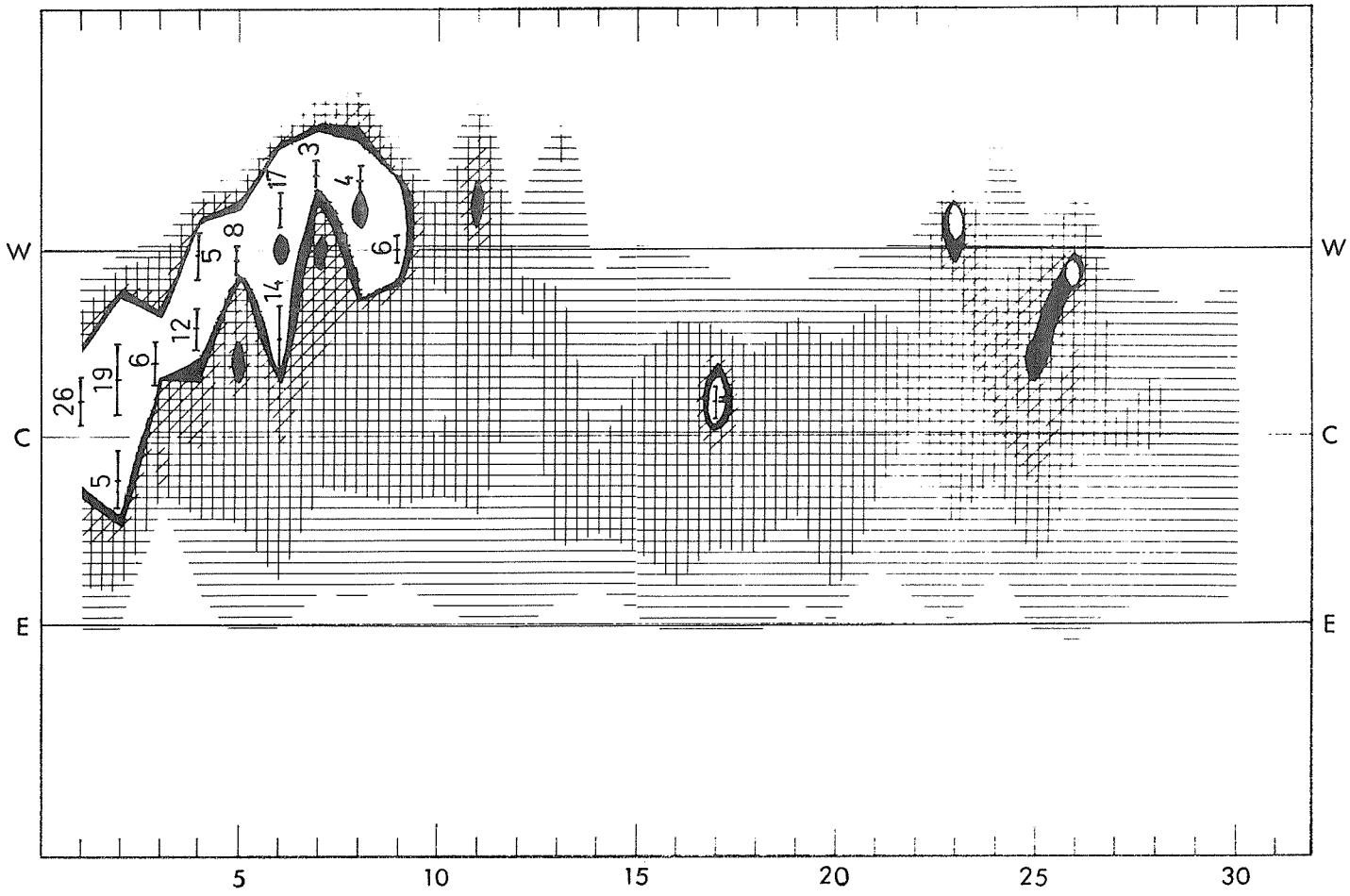
NANÇAY

408 Mc/s



SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

NANÇAY APRIL 1966 169 Mc/s



SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JANUARY, FEBRUARY, MARCH 1966

25-320 Mc/s

Fort Davis

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
January						
1	1350-2345					
2	1350-2345	IIIb	1423-1424	2	190-100	Occasional Weak I during day
		IIIg	1545-1546	2	320- 50	
		IIIg	1553-1554	2	280- 50	
		IIIg	1846-1847	2	280- 50	
3-11	1351-2345					
12	1350-2345	IIIg	1456-1457	2	240- 50	
		IIIg	2155-2156	2	320-<25	2156: U-burst
		IIIg	2200-2202	2	300- 50	2200: U-burst
		IIIG	2209-2213	2	>320-<25	
		IIIg	2258-2259	1	280-125	
13	1350-2345	IIIG	1814-1815	2	280-<25	
		IIIg	1928-1929	2	240- 50	
14	1350-2345	IIIg	2214-2215	2	260-180	Occasional Weak I during day
		IIIG	2226-2229	2	320- 60	
		IIIG	2230-2232	2	320-100	
15	1351-2345	IIIg	1540-1541	1	300-115	Occasional Weak I during day
		IIIG	1615-1617	2	320-125	
16	1350-2345	I	1820-2220	3	280-<25	Weak I throughout day
		IIIg	1852-1855	2	>320-115	1852: Possibly associated Type IV
		V				1845-2200: Forward and reverse drift pairs, 80-60 Mc/s.
17	1351-2345	IIIg	1838-1839	2	50- 25	Occasional Weak I during day
		IIIg	1844-1845	2	80-<25	
18	1350-2345	I	1420-1700	1	290- 60	Weak I throughout day
		IIIg	1638-1639	2	75-<25	
19	1350-2345					Weak I throughout day
20-22	1351-2345					
23	1351-2345					Occasional Weak I during day
24	1350-2345	IIIg	1719-1720	2	250- 50	Occasional Weak I during day
		IIIg	1729-1732	2	300- 50	
		IIIg	1801-1802	2	280- 50	
		IIIg	1908-1909	1	180-<25	
		I	2158-2345	1	240- 50	
25	1351-2345	IIIg	1601-1602	2	150-<25	Occasional Weak I during day
		IIIg	1624-1625	2	320-100	
		IIIg	1749-1750	2	250-<25	
		IIIg	1755-1756	1	180-<25	
		IIIg	1816-1817	2	240-<25	
		IIIg	1827-1828	2	250-<25	
		IIIg	1910-1912	2	240-<25	
		IIIG	2115-2117	3	300-<25	
26-27	1350-2345					
28	1351-2345	IIIb	2139-2140	1	180-115	Occasional Weak I during day
		IIIg	2141-2142	1	180- 50	
29	1351-2345	IIIg	1807-1808	2	310-150	Occasional Weak I during day
30-31	1351-2345					
February						
1	1351-2345					
2	1400-2345	IIIg	1514-1515	2	180- 90	
		Uncl.	1517-1523	2	80-<25	
3	1350-2345					Occasional Weak I during day
4-18	1351-2345					
19	1350-2345	IIIg	1554-1555	2	180- 50	
20	1350-2345	IIIb	1853-1854	1	175-100	Weak I throughout day
		IIIg	2044-2045	2	200-100	
		IIIg	2046-2047	1	320-180	
		IIIg	2049-2050	2	>320-200	
		IIIg	2055-2056	1	210-130	
21	1350-2345	I	1730-1940	1	320-150	Weak I throughout day
22	1351-2345					Weak I throughout day
23	1350-2345	IIIg	2153-2154	2	280-190	Occasional Weak I during day
		IIIg	2306-2307	2	230-140	
24	1351-2345	I	1352-1401	1	310-125	Weak I throughout day
25	1350-2345	IIIg	2114-2115	2	240-115	Occasional Weak I during day
		IIIG	2215-2216	3	250- 50	
		IIIg	2230-2231	1	180- 75	
		IIIg	2232-2233	2	320-100	2233: U-burst
26	1351-2345					
27	1351-2345	IIIg	2302-2303	2	140-100	
		IIIg	2339-2340	2	250-100	
28	1350-2345					
March						
1-7	1318-2330					
8	1318-2330	IIIb	2053-2054	1	50-<25	
9-12	1318-2330					
13	1318-2330	IIIb	1432-1433	1	130- 50	
14	1318-2330	IIIg	1421-1422	2	150- 55	Occasional Weak I during day
		IIIg	1828-1829	2	180- 25	
		IIIg	1831-1832	3	300-<25	
		IIIg	1936-1938	2	50-<25	
		IIIg	2019-2020	3	220-<25	2019: Type V
		IIIg	2229-2230	1	150-<50	
		IIIG	2255-2257	2	180-<25	2256: U-burst
		IIIg	2311-2312	1	200-<100	
		IIIg	2322-2323	3	220-<50	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

MARCH 1966

FORT DAVIS

25 - 320 Mc/s

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
15	1318-2330	IIIg	1352-1353	1	180- 90	Weak I throughout day
		IIIg	1520-1521	2	>320-200	
		IIIg	1613-1614	2	120-<25	
		IIIG	1629-1630	2	300-<25	
		Uncl.	1637-1638	2	320-240	
		II	1640.8-1644	3	310-110	
		IIIg	1657-1700	1	125-<50	
		IIIb	1727-1728	2	50-<25	
		IIIg	1742-1743	2	75-<25	
		IIIb	1804-1805	2	50-<25	
		IIIb	1843-1844	2	50-<25	
		IIIb	1858-1859	1	35-<25	
		IIIg	1915-1916	2	75-<25	
		IIIb	1959-2000	2	35-<25	
		IIIb	2007-2008	2	50-<25	
		IIIg	2011-2012	1	180- 60	
		IIIb	2049-2050	1	40-<25	
		IIIb	2100-2101	2	50-<25	
		IIIg	2103-2104	2	200-<25	
		IIIG	2108-2109	2	190-<25	
		IIIg	2110-2111	2	150- 50	
		IIIG	2115-2119	2	180-<25	
		IIIG	2120-2121	3	250-<25	2120: Type V
		IIIg	2147-2148	1	180- 65	
		IIIg	2152-2154	1	200- 75	
		IIIb	2158-2159	1	130- 60	
		IIIb	2301-2302	2	60-<25	
		IIIg	2316-2317	2	210-<25	
16	1318-2330	IIIg	1324-1325	2	300-200	Weak I throughout day
		IIIG	1413-1417	2	>320- 50	
		IIIb	1457-1458	2	>320-245	
		IIIG	1515-1519	2	>320-<25	
		IIIG	1521-1524	2	>320- 50	1523: U-burst
		IIIG	1528-1529	3	>320- 50	1529: Type V
		IIIG	1535-1536	2	310-<25	
		IIIG	1540-1543	2	320-100	
		IIIg	1545-1546	2	180- 60	
		IIIg	1548-1549	2	>320-<25	
		IIIG	1615-1619	2	240-<25	
		IIIg	1621-1624	2	80-<25	
		IIIG	1625-1630	3	>320-<25	1627: Type V
		IIIb	1651-1652	2	100-<25	
		IIIG	1702-1705	3	>320-<25	
		IIIb	1722-1723	2	125-<25	
		IIIb	1734	2	>320-200	
		IIIg	1739-1740	3	>320- 90	
		IIIg	1800-1802	3	>320-<25	
		IIIg	1805-1807	2	280-<25	
		IIIG	1822-1824	2	>320-<25	
		IIIg	1825-1826	2	>320-190	1826: U-burst
		IIIb	1830-1831	2	280-190	
		IIIb	1834-1835	2	180-<25	
		IIIb	1904	2	50-<25	
		IIIb	1918-1919	2	50-<25	
		IIIG	1921-1928	3	290-<25	1922: Type V
		IIIg	1936-1937	2	>320-240	1936: U-burst
		IIIg	1941-1942	2	>320- 50	
		IIIg	2034-2035	2	200-<25	
		IIIb	2041-2042	2	35-<25	
		IIIg	2051-2053	2	125-<25	
		IIIG	2129-2131	2	>320-<25	
		IIIG	2150-2151	3	>320-100	
		IIIG	2158-2202	3	280-<25	
		IIIg	2228-2229	2	280-125	
		IIIg	2251-2252	2	260- 50	
		IIIG	2255-2300	3	300-<25	
		IIIG	2302-2309	2	>320-<25	
17	1318-2330	IIIG	1427-1430	1	180- 50	Weak I throughout day
		IIIg	1443-1444	2	75- 50	
		I	1444-1549	1	320- 50	
		IIIb	1506	1	120- 50	
		IIIg	1554-1556	1	100-<25	
		IIIg	1606-1607	2	75-<25	
		IIIg	1609-1610	3	290-<25	
		IIIG	1637-1639	2	180-<25	
		IIIG	1641-1708	3	300-<25	1708-2330: Sporadic Type III bursts 100-<25 Mc/s.
		IIIG	1737-1742	3	100-<25	
		I	1740-1820	1	150- 50	
		IIIG	1745-1751	3	300-<25	
		IIIG	1753-1756	3	280-<25	
		IIIG	1757-1805	2	>320-<25	
		IIIG	1807-1812	2	>320-<25	
		IIIg	1817-1819	2	280-<25	
		IIIG	1839-1842	2	320-<25	
		IIIG	1908-1915	2	75-<25	
		IIIG	1917-1924	2	300-<25	
		IIIG	1926-1931	2	180-<25	
		IIIG	1932-1939	3	300-<25	
		IIIG	2002-2007	2	280-<25	
		IIIG	2018-2022	2	100-<25	
		I	2040-2044	2	140- 50	
		IIIG	2147-2151	3	230-<25	
		IIIG	2208-2209	2	240-<25	
		IIIG	2233-2235	2	280-<25	
		IIIG	2236-2238	2	240-<25	
		IIIG	2242-2243	2	280-<25	
		IIIg	2257-2258	2	180-<25	
		IIIg	2309-2310	2	180- 50	
		IIIg	2312-2313	2	180-<25	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

MARCH 1966

FORT DAVIS

25-320 Mc/s

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
18	1317-2330	IIIg	1317-1318	2	180-100	
		I	1320-1530	1	320-125	Weak I throughout day
		IIIG	1343-1348	2	180- 50	Sporadic Type III throughout day 100-<25 Mc/s.
		IIIG	1352-1358	2	180- 50	
		IIIg	1401-1402	2	180-100	
		IIIg	1403-1404	1	180-100	
		IIIG	1405-1415	2	180-<25	
		IIIb	1416-1417	2	150- 50	
		IIIG	1420-1425	2	180-<25	
		IIIG	1426-1432	2	320-<25	
		IIIg	1435-1436	1	180-100	
		IIIg	1439-1440	1	240-135	
		IIIg	1442-1443	2	180- 50	
		IIIG	1446-1448	2	180- 50	
		IIIG	1449-1450	2	180- 50	
		IIIg	1455-1456	2	175-100	
		IIIg	1458-1459	2	180- 50	
		IIIg	1500-1501	2	180- 50	
		IIIG	1504-1508	2	280-<25	
		IIIb	1513-1514	2	135-<25	
		IIIb	1525-1526	2	150- 50	
		IIIb	1529-1530	1	135- 50	
		IIIG	1545-1549	2	280-<25	
		IIIg	1550-1551	2	280-<25	
		IIIG	1553-1601	3	300-<25	1555: Type V
		IIIg	1643-1644	2	180- 50	
		IIIg	1713-1714	3	140-<25	
		IIIg	1718-1719	3	180-<25	
		IIIG	1721-1725	2	150-<25	
		IIIG	1726-1735	3	180-<25	
		IIIG	1736-1738	2	200-<25	
		IIIg	1750-1752	2	180-<25	
		IIIg	1800-1801	2	150-<25	
		IIIg	1808-1809	2	180-<25	
		IIIg	1812-1814	2	150-<25	
		IIIG	1816-1822	2	280-<25	
		IIIG	1824-1827	3	280-<25	1827: Type V
		IIIg	1829-1831	2	165-<25	
		IIIG	1850-1854	3	280-<25	
		IIIG	1855-1859	3	>320-<25	
		IIIG	1900-1903	3	320-<25	
		IIIG	1905-1916	3	>320-<25	
		IIIG	1917-1920	2	280-<25	
		IIIG	1921-1927	2	280-<25	
		IIIG	1928-1935	3	>320-<25	
		I	1953-2226	1	280-100	2000-2242: Forward and reverse drift pairs 50-<25 Mc/s.
		IIIG	2008-2011	3	280-<25	
		IIIg	2049-2050	2	165-<25	2014: U-burst
		IIIG	2051-2055	2	320-<25	2014: Type V
		IIIG	2056-2103	3	>320-<25	
		IIIG	2104-2107	2	>320-<25	
		IIIα	2116-2117	2	150-<25	
		IIIG	2157-2204	3	150-<25	
		IIIg	2205-2207	3	180-<25	
		IIIg	2211-2212	2	150-<25	
		IIIg	2216-2217	2	180-<25	
		IIIg	2251-2252	3	240-<25	
		IIIG	2309-2313	2	150-<25	
		IIIG	2315-2316	2	150- 50	
19	1318-2330	IIIG	1329-1332	2	280-<100	Weak I throughout day
		IIIG	1336-1338	2	230-<50	Sporadic Type III throughout day 100-<25 Mc/s.
		IIIG	1344-1346	2	150-<50	
		IIIG	1349-1351	2	290-<25	
		IIIg	1402-1404	2	150- 50	
		IIIG	1419-1432	2	>320-<25	
		IIIg	1525-1526	3	180-<25	
		IIIg	1553-1555	1	240-<25	1552-2200: Forward and reverse drift pairs 50-<25 Mc/s.
		IIIG	1605-1621	3	>320-<25	
		IIIG	1627-1631	2	250-<25	
		IIIG	1819-1821	3	310-<25	
		I	1920-2040	1-2	260-<25	
		IIIg	1920-1921	2	180-<25	
		IIIg	1931-1932	2	150-<25	
		IIIg	2036-2037	2	180-<25	
		IIIb	2115	1	140-<25	
		IIIG	2127-2131	1	240-<25	
		IIIG	2132-2134	3	290-<25	2132: U-burst with harmonics
		IIIG	2137-2138	2	250-<25	
		IIIG	2139-2142	2	300-<25	
		IIIG	2143-2148	3	310-<25	2145: U-burst with harmonics
		IIIG	2150-2200	3	320-<25	
		IIIg	2201-2203	3	290-<25	
		IIIG	2204-2206	3	290-<25	
		IIIG	2207-2211	3	290-<25	
		IIIg	2306-2307	2	200- 50	
20	1318-2330	I	1325-2330	1-2	240- 50	Noise storm has continuum background
		IIIG	1357-1358	2	200-<50	Sporadic Type III throughout day 100-<50 Mc/s.
		IIIg	1409-1410	3	150-<50	
		IIIG	1450-1454	2	180-<50	
		IIIG	1525-1528	2	130-<50	
		IIIg	1536-1537	2	100-<50	
		IIIG	1540-1544	2	320-<50	
		IIIG	1547-1551	2	100-<50	
		IIIG	1555-1558	2	300-<50	
		IIIb	1603-1604	2	100-<50	
		IIIb	1612-1613	2	100-<50	
		IIIg	1614-1615	1	100-<50	
		IIIg	1653-1654	2	75-<50	
		IIIg	1656-1657	2	85-<50	
		IIIg	1704-1706	1	180-<50	
		IIIG	1744-1747	2	280-<50	
		IIIG	1852-1853	2	250- 75	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

MARCH 1966

Fort Davis

25-320 Mc/s

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC	REMARKS
		TYPE	TIMES U.T.	INT.		
		IIIG	1858-1859	3	320-<50	
		IIIG	1948-1951	3	300-<50	
		IIIg	2054-2055	3	150-<50	
		IIIG	2102-2103	3	300-<50	
		IIIG	2107-2109	2	240-<50	
		IIIg	2140-2141	2	240-<50	
		IIIG	2145-2148	2	200-<50	
		IIIb	2215-2216	2	180-<50	
		IIIg	2302-2303	2	200-<50	
		IIIG	2308-2311	3	320-<50	
21	1318-2330	IIIg	1358-1359	2	200-<50	Weak I throughout day
		IIIg	1400-1403	1	200-<50	Sporadic Type III throughout day 100-<50 Mc/s.
		IIIg	1406-1407	1	210-<50	
		IIIg	1412-1413	2	150-<50	
		IIIG	1415-1417	3	320-<50	
		IIIg	1605-1606	1	140-<50	
		IIIg	1607-1608	2	200-<50	
		IIIg	1609-1610	1	180-<50	
		IIIb	1856-1857	3	220-<50	
		IIIG	2127-2129	2	300-<50	
		IIIg	2130-2131	2	250-<50	
		IIIb	2141-2142	2	250- 60	
		IIIG	2144-2146	2	280-<50	
		IIIb	2147-2148	2	170-<50	
		IIIG	2151-2200	3	>320-<50	
		IIIG	2203-2206	3	310-<50	
		I	2210-2330	1	>250-<50	
22	1318-2330	I	1318-2330	1	320-<50	1940-2151: Sporadic Type III 100-<50 Mc/s.
		IIIg	1612-1613	3	180-<50	2151-2330: Sporadic Type III 100-<25 Mc/s.
		IIIb	1615-1616	2	125-<50	
		IIIg	1632-1633	2	195-<50	
		IIIg	1702-1703	1	180-<50	
		IIIg	1757-1758	2	250-<50	
		IIIg	1803-1804	1	180-<50	
		IIIG	1807-1813	1	>320-<50	
		IIIG	1814-1824	3	>320-<50	
		IIIb	1921-1922	1	80-<50	
		IIIg	2250-2251	2	75-<25	
		IIIg	2319-2320	2	190- 50	
23	1318-2330	I	1318-2330	2-3	280-<25	Sporadic Type III throughout day 100-<25 Mc/s.
		IIIg	1339-1340	3	290-<25	
		IIIg	1649-1650	3	100-<25	
		IIIG	1716-1718	3	150-<25	
		IIIg	1957-1958	2	180-<25	
		IIIg	2011-2012	1	300-<25	
		IIIg	2120-2121	1	>320-150	
		IIIg	2123-2124	2	180-<25	
		IIIg	2141-2142	1	>320-135	
		IIIg	2243-2245	2	150-<25	
		IIIg	2249-2250	2	>320- 75	
		IIIg	2256-2257	1	180-100	
		II	2326.5-2330	2	>320-100	
24	1318-2330	I	1318-1400	1	280- 50	Weak I throughout day.
		IIIb	1536-1537	1	310-170	Sporadic Type III throughout day 100-<25 Mc/s.
		IIIg	1736-1737	2	290-<25	
		IIIg	1751-1752	1	240-<25	
		IIIg	1756-1757	2	180-<25	
		IIIg	1758-1759	2	240- 50	
		IIIG	1909-1918	3	320-<25	1916: Type V
		IIIG	2039-2045	2	320-<25	
		I	2020-2330	1	280- 50	
		IIIg	2255-2256	2	180- 50	
25	1318-2330	I	1318-2330	1-2	320- 50	Sporadic Type III throughout day 100-<25 Mc/s.
		IIIg	1458-1459	1	125-<25	
		IIIG	1537-1538	3	320-<25	
		IIIg	1642-1643	2	>320-180	
		IIIG	1645-1647	2	250-<25	1653: Type V
		IIIG	1929-1932	3	250-<25	
		IIIG	2039-2042	2	240-<25	
		IIIg	2048-2049	1	180-<25	
		IIIG	2052-2055	2	240-<25	
		IIIG	2057-2059	2	200-<25	
		IIIg	2231-2233	2	180-<25	
		IIIg	2235-2236	1	190-<25	
26	1318-2330	I	1318-1820	1	320- 50	Weak I throughout day.
		IIIG	1830-1833	2	150-<25	1830: Type V
		IIIG	1850-1853	3	320-<25	1852: Type V
						1910: Type V
27	1318-2330	IIIG	1319-1322	2	>320-100	Weak I throughout day.
		IIIg	1413-1414	2	190- 50	
		IIIb	1415-1416	1	240-150	
		IIIg	1418-1419	1	150-115	
		IIIG	1524-1526	2	240-<25	
		IIIG	1530-1534	3	320-<50	
		IIIg	1539-1541	1	180-110	
		IIIg	1733-1735	2	>320-160	
		IIIg	1736-1737	2	>320-200	
		IIIg	2015-2016	1	240-180	
		IIIg	2017-2018	2	>320-190	
		IIIb	2054-2055	1	180- 60	
		IIIG	2118-2124	2	320-<25	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

MARCH 1966

Fort Davis

25-320 Mc/s

1966 UNIVERSAL TIME	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
March						
28	1318-2330	IIIg	1446-1447	1	>320-280	
		IIIG	1503-1509	2	310- 50	
		IIIg	1914-1915	2	196- 60	
		IIIg	1919-1920	1	240-170	
		IIIG	1922-1924	1	>320-200	
29	1318-2330	IIIg	1319-1320	1	125-100	Weak I throughout day.
		IIIg	1321-1322	1	125-100	
		IIIg	1400-1402	1	230-100	
		IIIg	1403-1404	1	240-100	
		IIIg	1518-1519	3	150-<25	
		IIIG	1525-1526	3	135-<25	1525: Type V
		IIIG	1529-1532	2	>320-<25	
		IIIb	1637-1638	2	125-<25	
		IIIg	1659-1700	3	125-<25	
		IIIg	1702-1703	1	180- 70	
		IIIg	1707-1708	2	240- 50	
		IIIg	1718-1719	2	100-<25	
		IIIg	1723-1724	2	135-<25	
		IIIg	1728-1729	3	>320-<25	
		IIIg	1731-1732	3	>320-<25	
		IIIG	1801-1803	2	190-<25	
		Uncl.	1807-1808	2	100-<25	
		IIIG	1812-1814	2	100-<25	
		IIIG	1826-1830	3	>320-<25	
		IIIg	1832-1833	2	>320-<25	
		IIIg	2011-2012	2	>320- 50	
		IIIg	2100-2101	2	125-<25	
30	1318-2330	IIIg	1452-1453	1	290- 50	Weak I throughout day.
		IIIg	1506-1508	1	180-100	
		IIIg	1623-1624	2	300- 75	
		IIIG	1644-1646	2	320-<25	
31	1318-2330	I	1318-1720	1	310-100	Weak I throughout day.
		IIIb	1900-1901	2	180-<25	Sporadic Type III: 1627-2224, 100-<25 Mc/s.
		IIIg	2032-2033	1	180-<25	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

APRIL 1966

UNIVERSITY OF COLORADO

7.6-41 Mc/s

Date April 1966	Bursts				Date April 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
1 Apr	continuum	b1240-a0045	1	19-41	15 Apr	III	2352-2353	1-	26-37
2	continuum	b1240-a0038	1	19-41	16	III	0000:30-0001:30	1-	22-41
3	continuum	b1243-a0043	1	16-41		III	2125:45-2126	1-	24-39
4	continuum	b1235-a0049	1	16-41		III	2131-2131:15	1+	21-41
5	continuum	b1235-a0050	1	19-41	17	III	0032-0033	1	31-41
	III	1526:15-1530	3	12-41		III	1222-1223:15	1+	23-41
6	continuum	b1231-a0050	1	19-41	18	III	0033:45-0034	1	24-41
7	continuum	b1235-a0045	1	17-41		continuum	1605-1733	1-	24-41
	III	1644-1645:30	3	12-41	20	III	1709:45-1710	1	28-38
8	continuum	b1230-a0050	1	18-41		III	1754:15-1755	1	24-38
	III	1452:30-1455:30	2	13-41		continuum	1930-2125	1-	24-41
9	continuum	b1300-a0045	1-	20-41		III	2116:45-2117	1	26-38
	III	2023-2024	2	15-41		III	2159:45-2200:30	2	29-34
10	III	1244:45-1245:45	2	18-41		III	2209-2209:15	1-	32-41
	III	1246-1246:15	2	22-41		III	2238:30-2238:45	1-	26-41
	III	1250:15-1250:30	1-	26-37		III	2339:30-2339:45	1-	31-39
	III	1351:15-1352	2	17-41	21	III	0006:30-0007	1	23-41
	III	1355-1355:30	2	23-41		III	1305-1306	1+	22-41
	III	1413:45-1415:15	2	17-41		III	1659:45-1700	1-	23-33
	III	1451-1452	1+	12-41		III	1703:30-1704	1	21-41
	III	1514:45-1516	2	16-41		III	1711-1711:15	1-	28-36
	III	1519:30-1520:30	1+	16-41		III	1713:15-1713:30	1-	26-36
	III	1609-1609:15	1-	23-38		III	1727:30-1728	1	24-40
	III	1801:15-1801:45	1	24-35		III	1729:45-1730	1-	28-41
	III	1925:30-1926:30	1	16-41		III	1752:30-1752:45	1-	27-36
	III	2035:30-2036	1-	15-41		continuum	1813-2220	1	21-41
	III	2047:15-2050	1-	12-36		III	2240:45-2241	1-	21-41
	III	2126:15-2126:30	1-	32-41		continuum	2305-a0100	1-	24-41
	III	2131:15-2131:30	1-	31-41	22	III	1516:30-1516:45	1	21-33
	III	2132:30-2133	1	26-41		continuum	1655-2004	1-	20-41
	III	2134-2135	2	17-41		no observ.	2015-2318		
	III	2138-2139:15	1	20-41		continuum	b2318-a0105	1-	20-41
11	III	1636:45-1637:15	1	26-41	23	continuum	b1210-a0117	1-	20-41
	III	2031:30-2032	1	25-39		III	1329:15-1329:45	3	18-41
	III	2034-2034:15	1-	32-36		III	1953-1954	3	12-41
	III	2036-2036:15	1-	32-36	24	continuum	b1210-a0124	1	20-41
12	III	1312-1313:15	1	22-41		III	1647:30-1650	3	11-41
	III	1316:45-1317:30	1	27-41		III	1650:15-1650:45	3	11-41
	III	1531:30-1535	3	11-41		III	1651-1652	3	11-41
	II	d 1537-1552	3	22-41		III	1739-1740:45	3	11-41
	IV	1552-1900	1-	24-41		III	1742-1743	3	11-41
13	III	0050:45-0051:30	1	21-41	25	continuum	b1423-a0115	1	22-41
14	III	0059:30-0100:30	1+	13-41	26	III	0001-0002:15	2+	17-41
	III	1231-1231:15	1-	15-41		III	1230:30-1231	1	20-41
	III	1232:30-1232:45	1-	21-29		III	1242:30-1243:15	2	26-41
	III	1233:15-1233:45	1-	15-41		III	1243:15-1244:15	3	20-41
	III	1258:30-1259:15	2	14-41		III	1358:15-1358:30	1-	30-41
	III	1305:15-1305:30	1-	27-41		III	1524:30-1525:15	1-	28-36
	III	1317:45-1318	1-	31-41		III	1526:15-1527:30	1+	21-37
	continuum	1325-a0045	1-	20-41		III	1528:45-1529	1	23-39

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

APRIL 1966

UNIVERSITY OF COLORADO

7.6-41 Mc/s

Date April 1966	Bursts				Date April 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
26 Apr	III	1531:45-1532:30	1	24-37	27 Apr	III	1959:45-2000:15	1	26-36
	III	1638:45-1639:15	1	29-36		III	2103-2103:15	1	27-41
	III	1641-1641:15	1-	33-39		III	2111:45-2112:15	1+	21-41
	III	1646:30-1647	1+	24-41		III	2135-2136	3	12-41
	III	1708-1708:15	1	28-36		III	2223-2223:15	1	32-41
	III	1742:30-1742:45	1	28-39		III	2240:15-2240:30	1	25-41
	III	1834:15-1834:45	1+	18-41		III	2325:15-2325:30	1-	25-41
	III	1838:30-1839:15	1+	16-41	28	III	0050:45-0051	1	25-37
	III	2213:45-2215	2	16-41		III	0102:30-0102:45	1	26-41
	III	2311:30-2312:45	2	16-41		III	1320:30-1320:45	1-	25-37
	III	2312:45-2313:30	2	16-41		III	1332:30-1332:45	1-	24-36
	III	2318-2319:15	2	21-41		III	1348-1348:15	1	24-41
	III	2320:45-2322:15	2	16-41		III	1403:30-1403:45	1	21-28
	III	2340:30-2341:15	2	16-41		III	1704:30-1704:45	1-	27-38
	III	2342-2342:15	1+	24-41		III	2147:30-2147:45	1	23-32
	III	2345:15-2345:30	1+	27-41		III	2202:15-2202:45	1	25-41
	III	2350:15-2351:15	3	16-41		III	2219:15-2220	1	21-41
27	III	0042-0042:15	1-	25-36		III	2220:15-2221	2	17-41
	III	0053:30-0053:45	1-	28-41		III	2227:45-2228	1	25-34
	III	1351:45-1352:45	2	19-41		III	2319:30-2319:45	1-	23-37
	III	1441-1441:15	1	26-35		III	2321:30-2321:45	1	24-40
	III	1448-1448:15	1+	18-37	29	continuum	0012-0035	1-	30-41
	III	1507:30-1508:15	1	17-35		no observ	1930-0220		
	III	1512-1512:45	1+	16-35	30	III	1431-1431:45	1	22-41
	III	1647:45-1648:15	1+	14-41		III	1532:45-1533:15	2	22-41
	III	1704:45-1705	1	27-34					
	III	1721:45-1722:15	1+	21-39					
	III	1738:30-1738:45	1	27-38					
	III	1851:15-1852:15	2	21-41					
	III	1923:15-1924	1+	25-39					

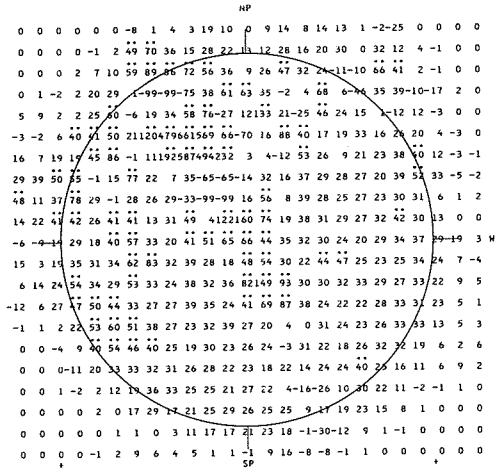
d = harmonic structure

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD

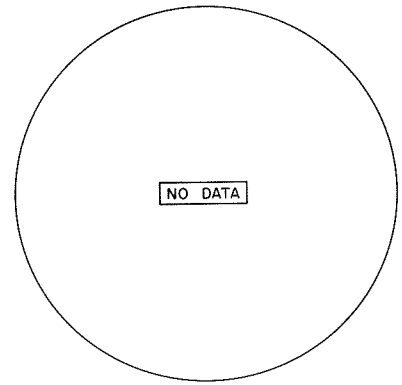
APRIL 1966

9.1 cm

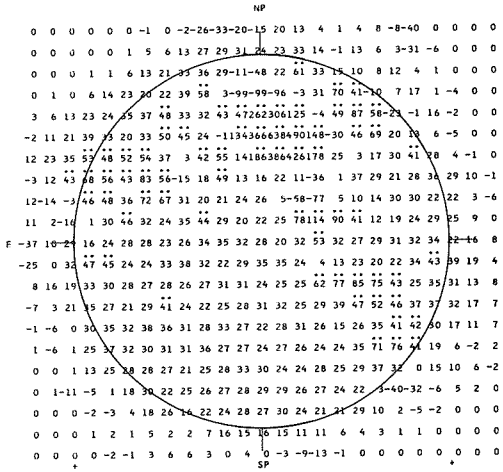


9.1 CM SPECTROHELIOGRAM

STANFORD, 01 APR 1966 20-21 HRS UT. S = 107(NRC) BRIGHTNESS UNIT = 1000 K

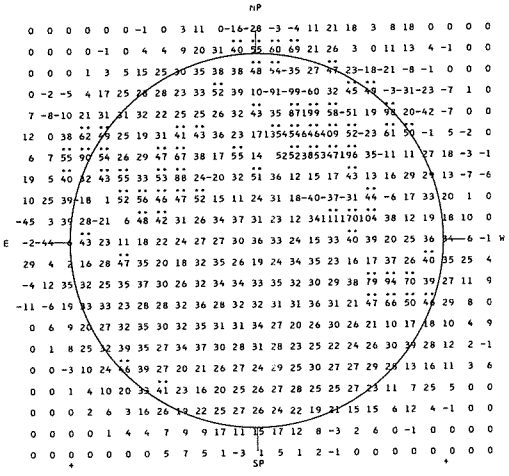


02 APR. 1966



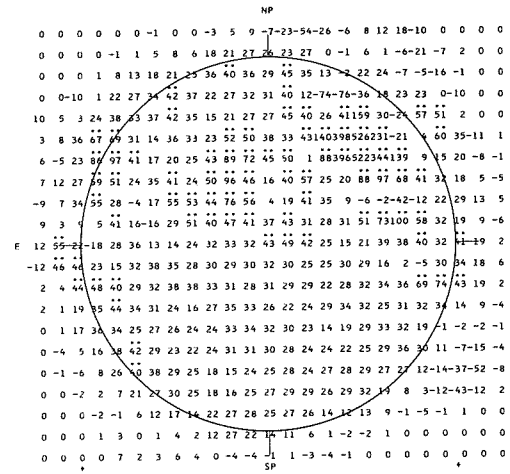
9.1 CM SPECTROHELIOGRAM

STANFORD, 03 APR 1966 20-21 HOURS UT. S = 102 BRIGHTNESS UNIT = 1000 K



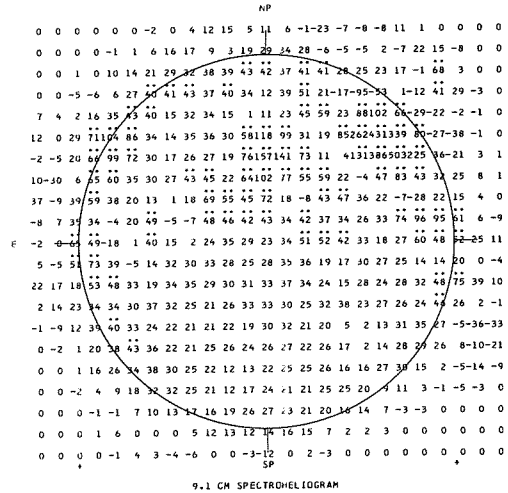
9.1 CM SPECTROHELIOGRAM

STANFORD, 04 APR 1966 20-21 HOURS UT. S = 103 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 05 APR 1966 20-21 HOURS UT. S = 102 BRIGHTNESS UNIT = 1000 K

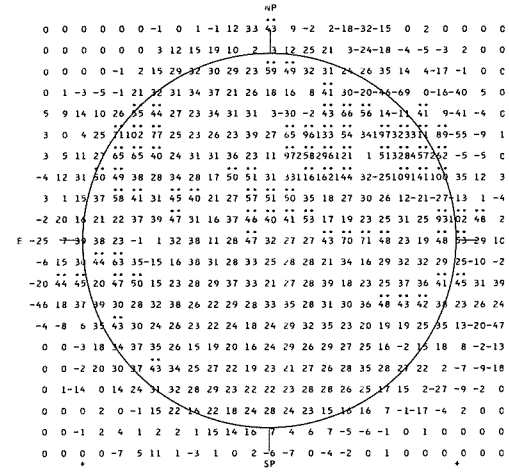


9.1 CM SPECTROHELIOGRAM

STANFORD, 06 APR 1966 20-21 HOURS UT. S = 104 BRIGHTNESS UNIT = 1000 K

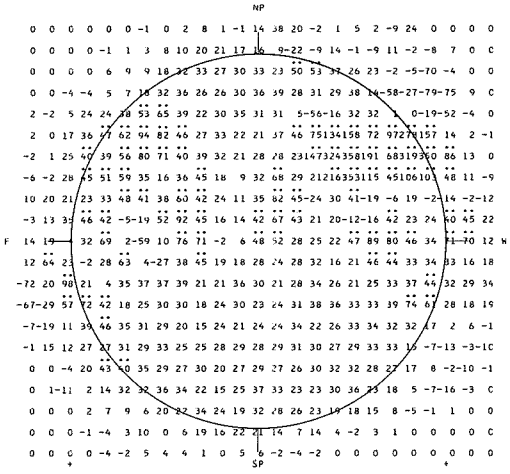
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD APRIL 1966 **9.1 cm**



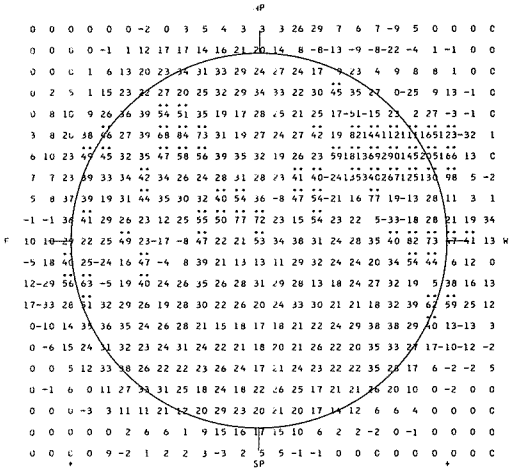
9.1 CM SPECTROHELIOGRAM

STANFORD, 07 APR 1966 20-21 HOURS UT. S = 103 BRIGHTNESS UNIT = 1000 K



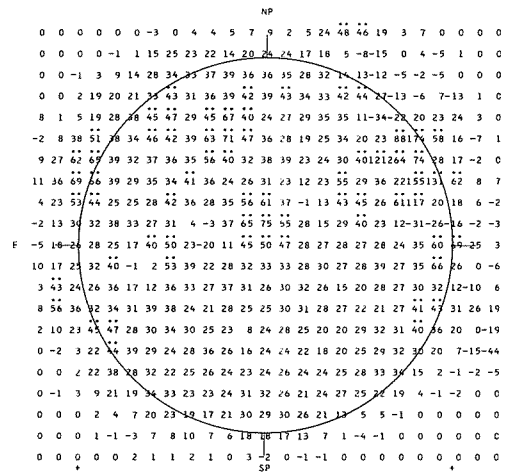
9.1 CM SPECTROHELIOGRAM

STANFORD, 08 APR 1966 20-21 HOURS UT. S = 107 BRIGHTNESS UNIT = 1000 K



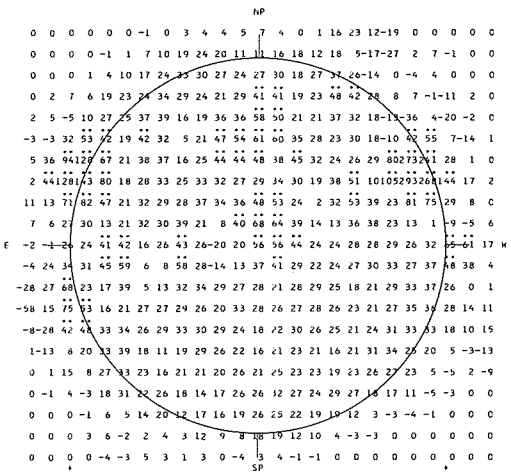
9.1 CM SPECTROHELIOGRAM

STANFORD, 09 APR 1966 20-21 HOURS UT. S = 100 BRIGHTNESS UNIT = 1000 K



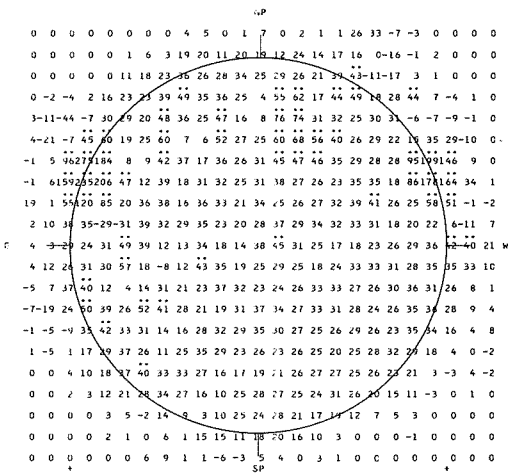
9.1 CM SPECTROHELIOGRAM

STANFORD, 10 APR 1966 20-21 HOURS UT. S = 94 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 11 APR 1966 20-21 HOURS UT. S = 94 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

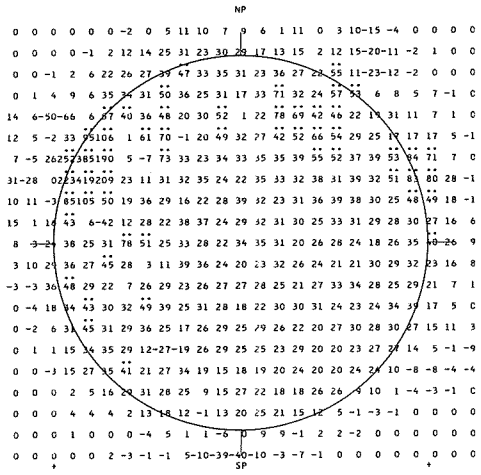
STANFORD, 12 APR 1966 20-21 HOURS UT. S = 94 BRIGHTNESS UNIT = 1000 K

IVp

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

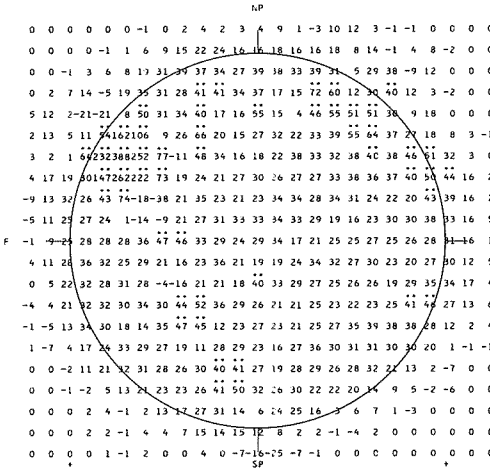
IV4

STANFORD — APRIL 1966 — **9.1 cm**



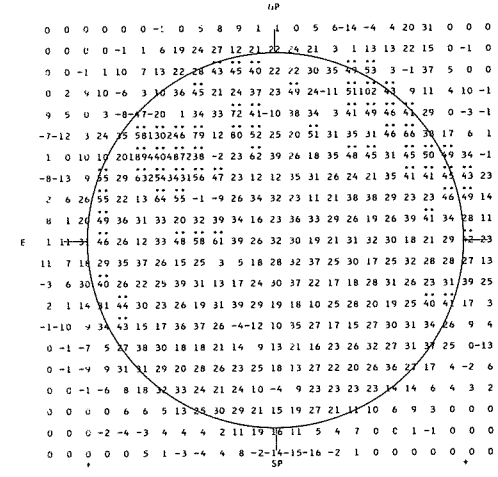
9.1 CM SPECTROHELIOGRAM

STANFORD, 13 APR 1966 20-21 HOURS UT. S = 93 BRIGHTNESS UNIT = 1000 K



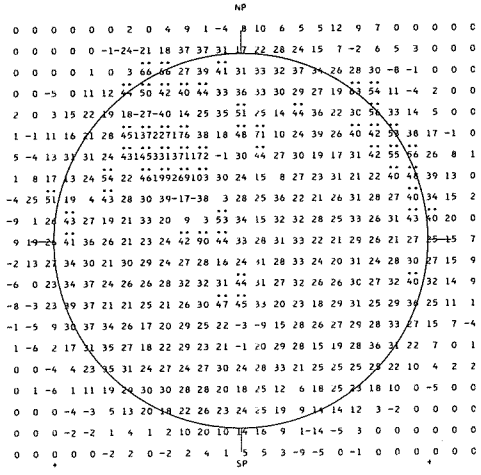
9.1 CM SPECTROHELIOGRAM

STANFORD, 14 APR 1966 20-21 HOURS UT. S = 91 BRIGHTNESS UNIT = 1000 K



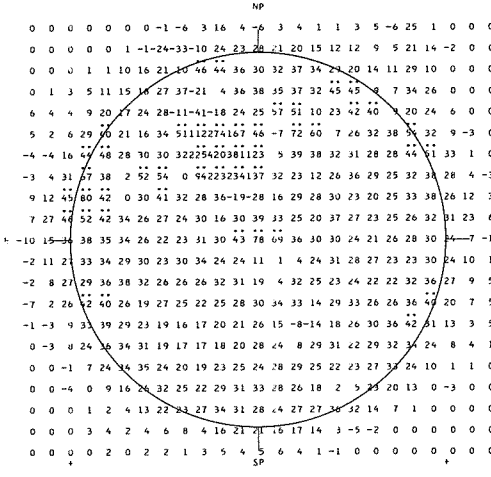
9.1 CM SPECTROHELIOGRAM

STANFORD, 15 APR 1966 20-21 HOURS UT. S = 96 BRIGHTNESS UNIT = 1000 K



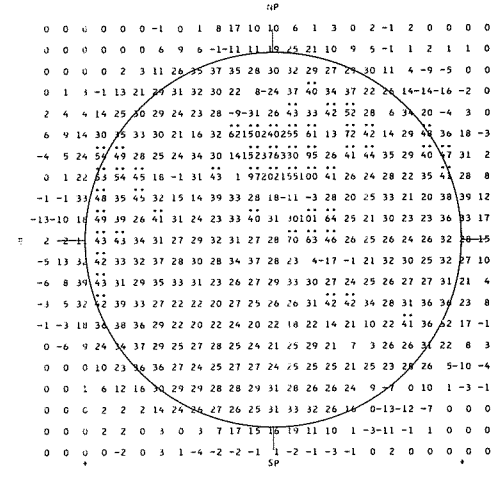
9.1 CM SPECTROHELIOGRAM

STANFORD, 16 APR 1966 20-21 HOURS UT. S = 93 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 17 APR 1966 20-21 HOURS UT. S = 95 BRIGHTNESS UNIT = 1000 K

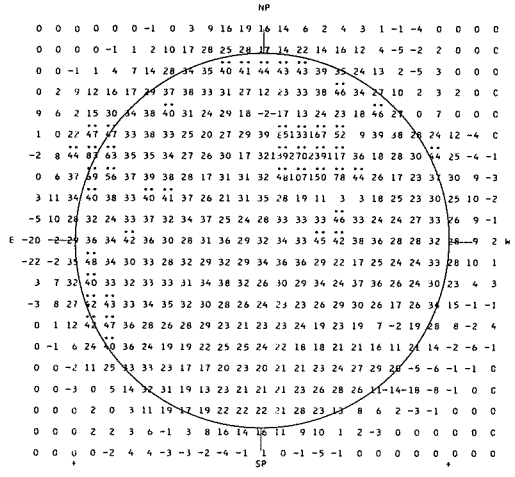


9.1 CM SPECTROHELIOGRAM

STANFORD, 18 APR 1966 20-21 HOURS UT. S = 92 BRIGHTNESS UNIT = 1000 K

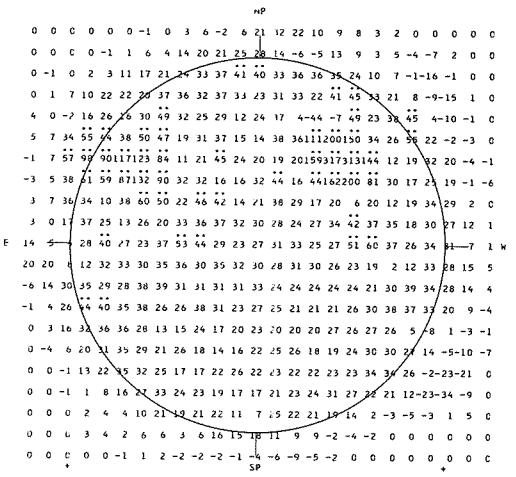
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD APRIL 1966 **9.1 cm**



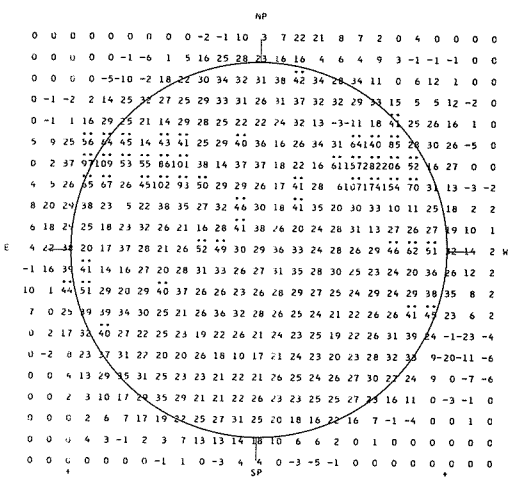
9.1 CM SPECTROHELIOGRAM

STANFORD, 19 APR 1966 20-21 HOURS UT. S = 88 BRIGHTNESS UNIT = 1000 K



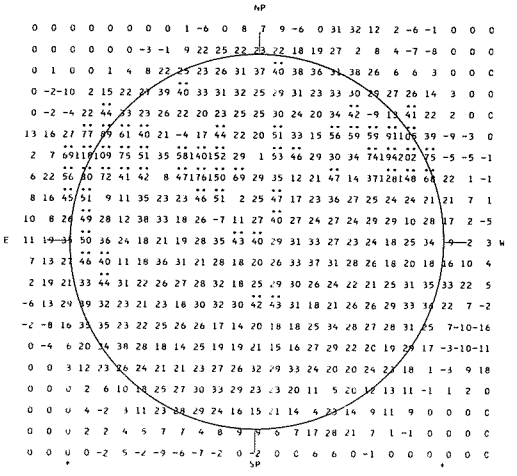
9.1 CM SPECTROHELIOGRAM

STANFORD, 20 APR 1966 20-21 HOURS UT. S = 93 BRIGHTNESS UNIT = 1000 K



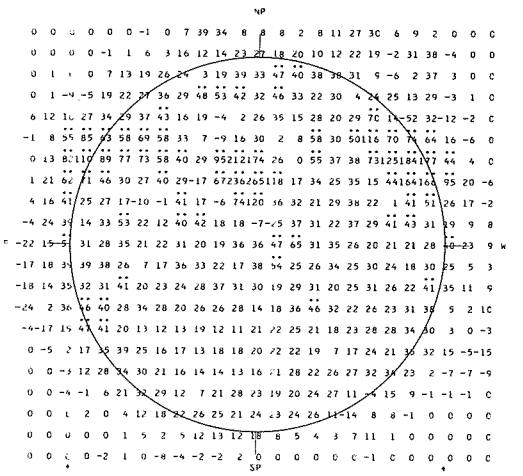
9.1 CM SPECTROHELIOGRAM

STANFORD, 21 APR 1966 20-21 HOURS UT. S = 91 BRIGHTNESS UNIT = 1000 K



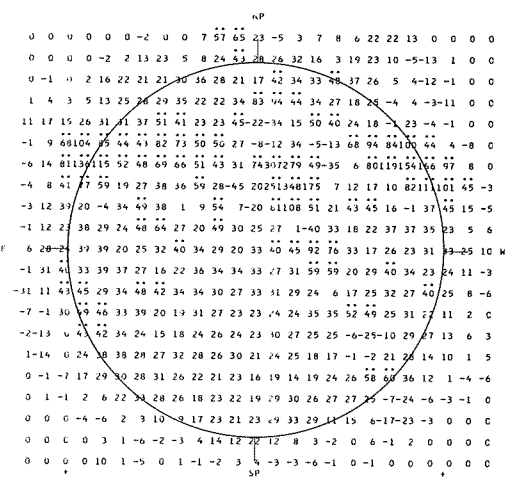
9.1 CM SPECTROHELIOGRAM

STANFORD, 22 APR 1966 20-21 HOURS UT. S = 92 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 23 APR 1966 20-21 HOURS UT. S = 98 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 24 APR 1966 20-21 HOURS UT. S = 103 BRIGHTNESS UNIT = 1000 K

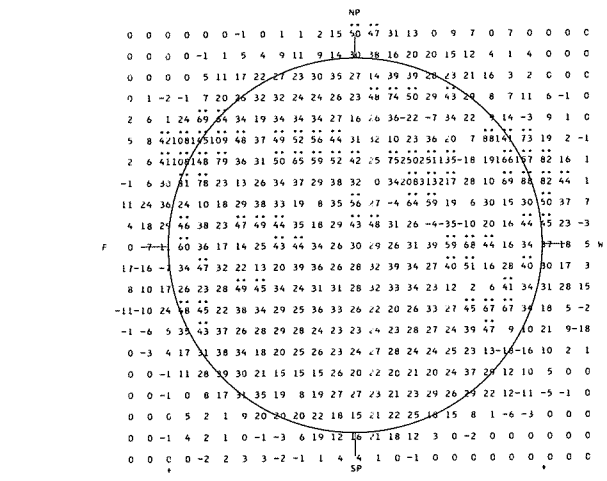
IVr

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

APRIL 1966

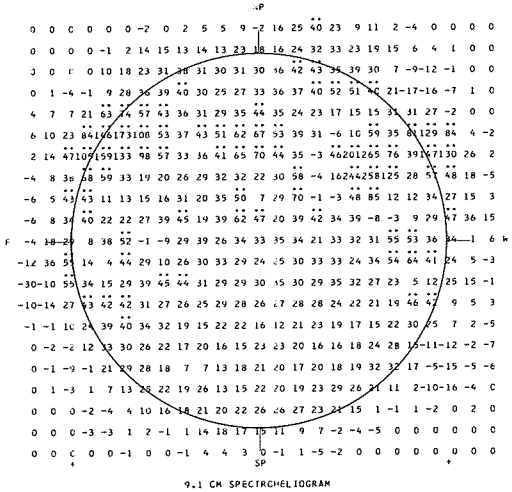
STANFORD

9.1 cm



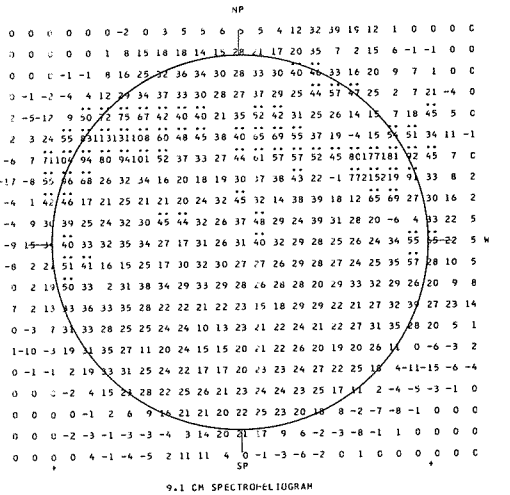
9.1 CM SPECTROHELIOGRAM

STANFORD, 25 APR 1966 20-21 HOURS UT. S = 103 BRIGHTNESS UNIT = 1000 K



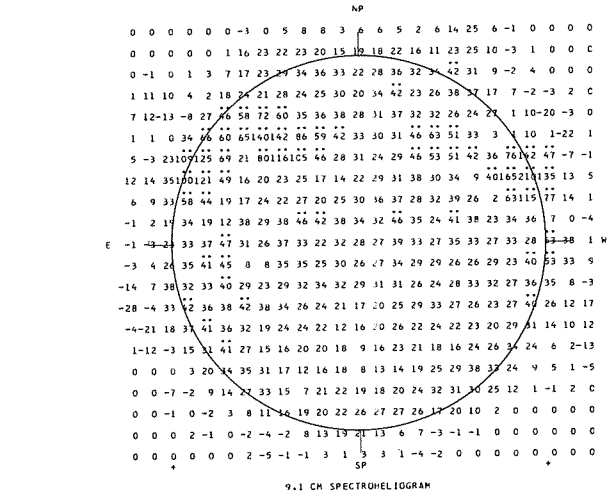
9.1 CM SPECTROHELIOGRAM

STANFORD, 26 APR 1966 20-21 HOURS UT. S = 100 BRIGHTNESS UNIT = 1000 K



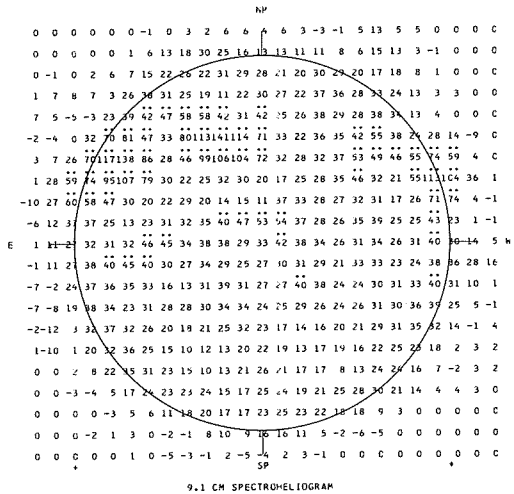
9.1 CM SPECTROHELIOGRAM

STANFORD, 27 APR 1966 20-21 HOURS UT. S = 96 BRIGHTNESS UNIT = 1000 K



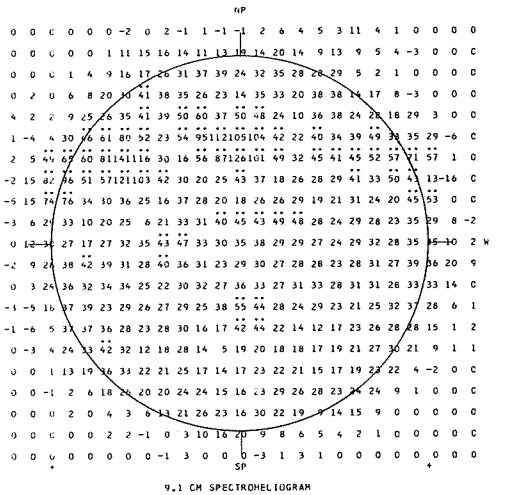
9.1 CM SPECTROHELIOGRAM

STANFORD, 28 APR 1966 20-21 HOURS UT. S = 94 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 29 APR 1966 20-21 HOURS UT. S = 93 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 30 APR 1966 20-21 HOURS UT. S = 92 BRIGHTNESS UNIT = 1000 K

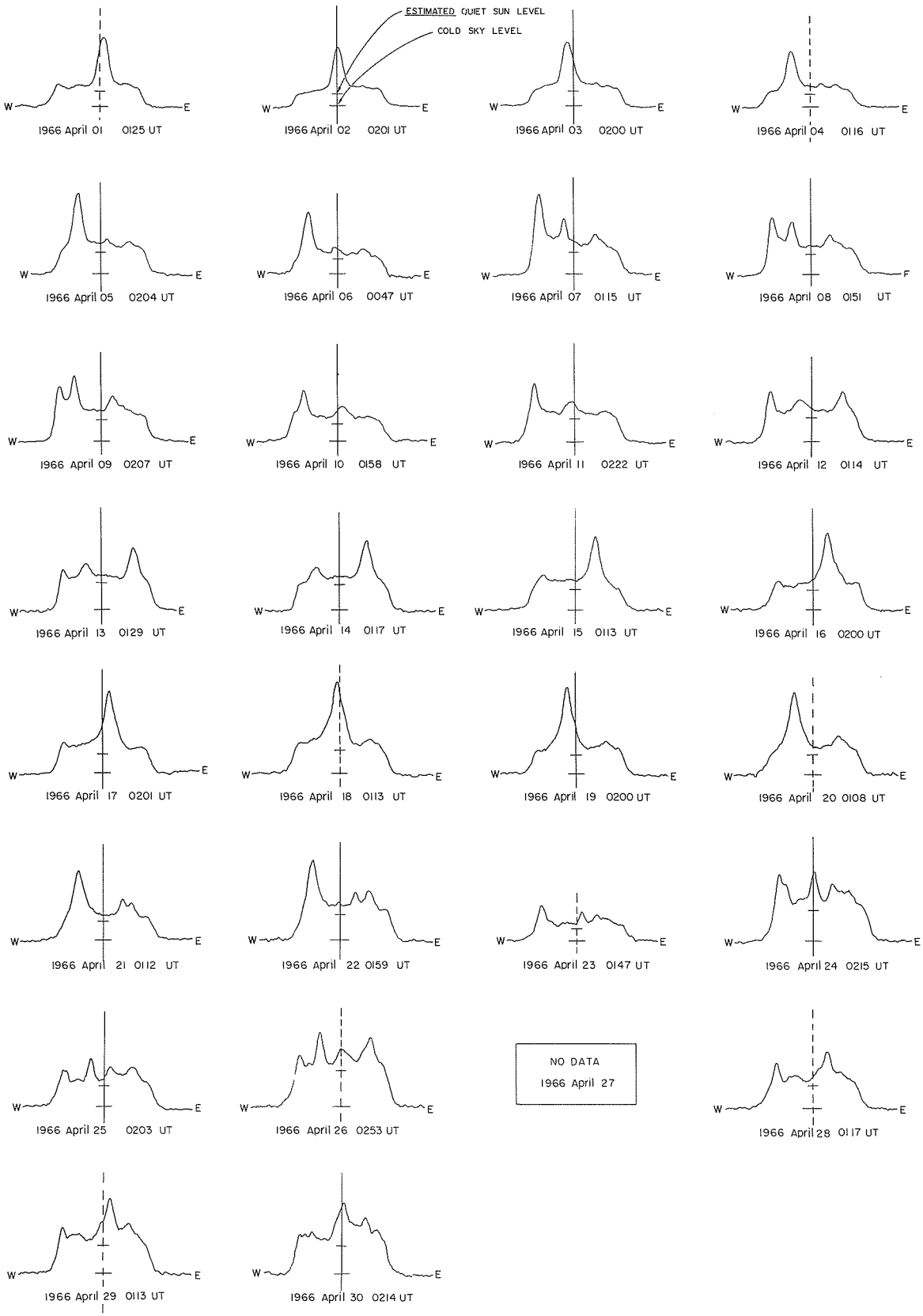
EAST - WEST SOLAR SCANS

IVt

FLEURS, AUSTRALIA

APRIL 1966

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

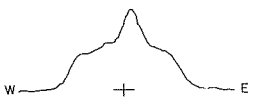


EAST - WEST SOLAR SCANS

APRIL 1966

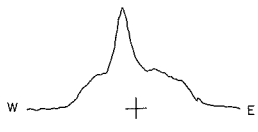
FLEURS, AUSTRALIA

43 cm

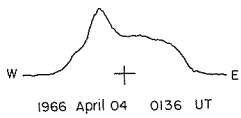


1966 April 01 0145 UT

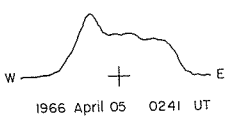
1966 April 02 0153 UT



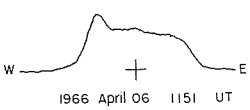
1966 April 03 0128 UT



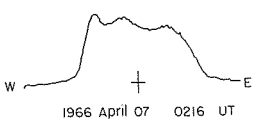
1966 April 04 0136 UT



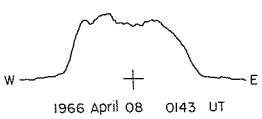
1966 April 05 0241 UT



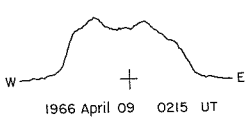
1966 April 06 1151 UT



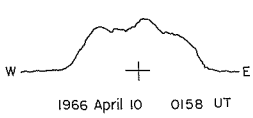
1966 April 07 0216 UT



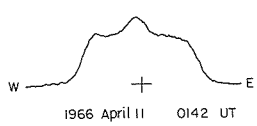
1966 April 08 0143 UT



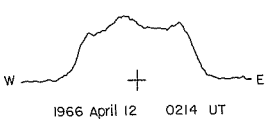
1966 April 09 0215 UT



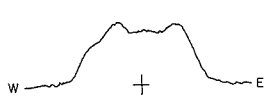
1966 April 10 0158 UT



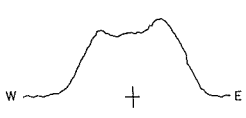
1966 April 11 0142 UT



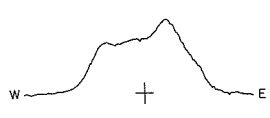
1966 April 12 0214 UT



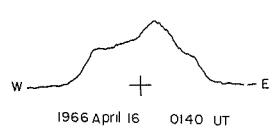
1966 April 13 0131 UT



1966 April 14 0142 UT



1966 April 15 0149 UT



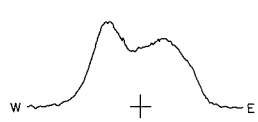
1966 April 16 0140 UT

1966 April 17 0212 UT

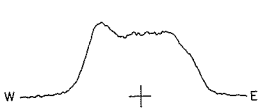
1966 April 18 0156 UT

1966 April 19 0212 UT

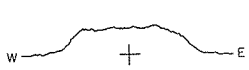
1966 April 20 0253 UT



1966 April 21 0158 UT

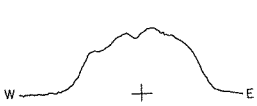


1966 April 22 0147 UT

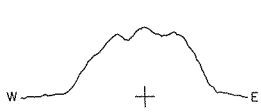


1966 April 23 0212 UT

1966 April 24 0203 UT



1966 April 25 0203 UT



1966 April 26 0203 UT

NO DATA
1966 April 27

1966 April 28 0154 UT

1966 April 29 0138 UT

1966 April 30 0228 UT

COSMIC RAY INDICES

(Neutron Monitors)

MARCH 1966

MARCH 1966	CHURCHILL DAILY AVERAGE COUNTS PER HOUR	DEEP RIVER DAILY AVERAGE COUNTS PER HOUR	CLIMAX DAILY AVERAGE COUNTS PER HOUR	DALLAS DAILY AVERAGE COUNTS PER HOUR
1	6573.3	7110.7	4279.5	6471.2
2	6560.3	7107.7	4314.9	6466.7
3	6542.8	7070.7	4298.2	6453.8
4	6544.3	7070.1	4278.1	6485.0
5	6536.9	7078.0	4265.1	6481.8
6	6540.5	7109.4	4264.3	6482.8
7	6560.4	7116.0	4272.3	6484.3
8	6558.3	7105.7	4267.6	6469.4
9	6543.3	7079.3	4262.7	6472.9
10	6527.5	7072.5	4269.0	6470.8
11	6527.4	7080.8	4274.8	6466.3
12	6571.8	7098.2	4284.0	6480.7
13	6504.6	7007.4	4211.6	6405.5
14	6474.0	7040.0	4301.7	6491.8
15	6495.1	7064.5	4287.4	6471.0
16	6527.0	7087.0	4294.3	6473.2
17	6538.8	7090.6	4305.2	6474.8
18	6529.3	7079.4	4290.5	6487.5
19	6514.6	7074.7	4271.5	6476.7
20	6514.9	7075.3	4262.6	6443.9
21	6519.9	7039.1	4272.6	6424.2 (19)
22	6477.0	7006.3	4243.2	6407.8
23	6358.2	6907.5	4173.7	6374.3
24	6215.1	6728.0	4069.5	6252.1
25	6222.7	6773.7	4076.7	6250.2
26	6186.6	6722.2	4018.5	6168.0
27	6171.1	6711.4	3996.3	6150.9
28	6140.9	6678.5	3986.8	6122.5
29	6205.6	6745.4	4023.9	6179.3
30	6239.6	6794.2	4060.5	6229.5
31	6276.6	6812.2	4058.2	6256.7 (21)

( ) 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.

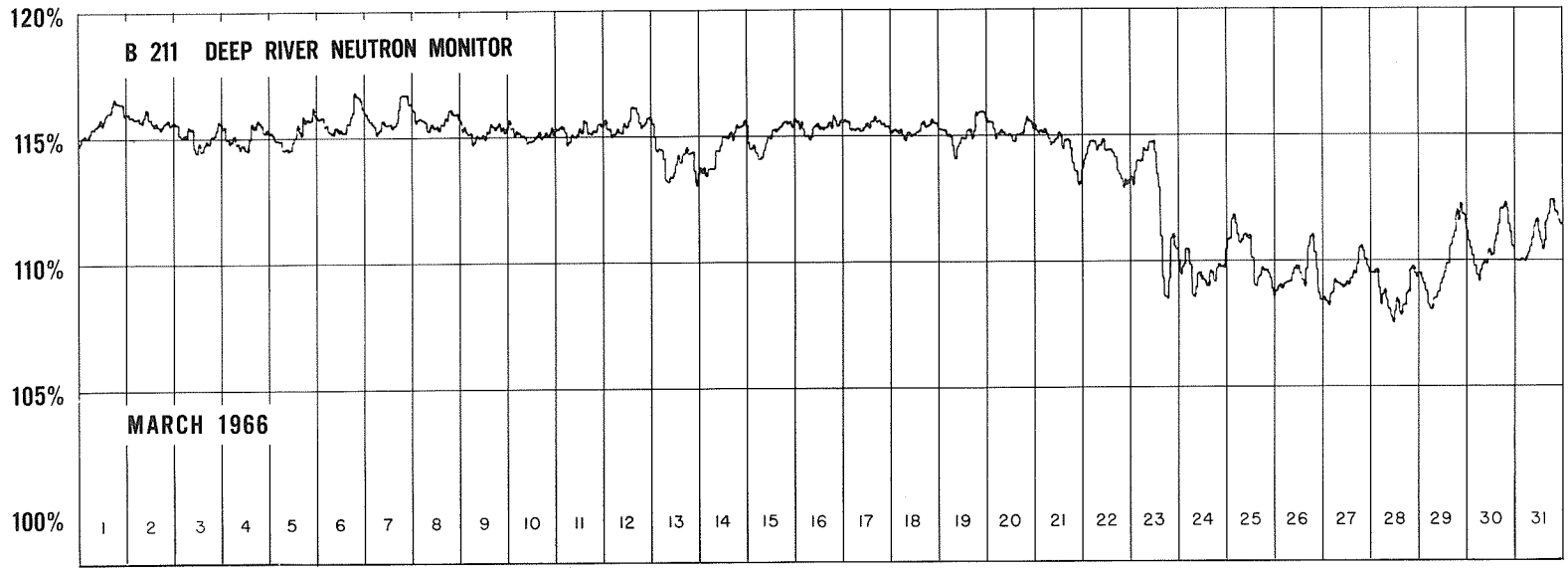
Deep River Neutron Monitor, Scaling Factor 300.

Climax IGC Station B305, Scaling Factor 100.

Dallas Super Neutron Monitor, Scaling Factor 120.

COSMIC RAY INDICES

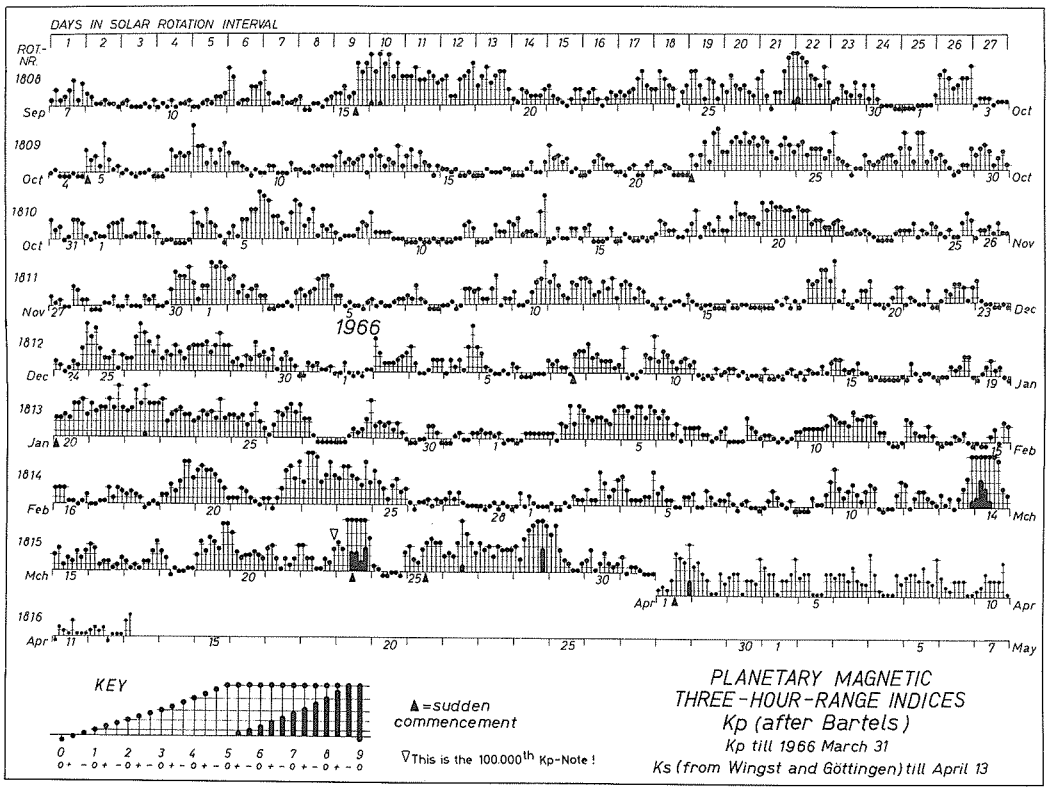
(Pressure Corrected Hourly Totals)



GEOMAGNETIC ACTIVITY INDICES

MARCH 1966

Day		Three-hour range indices Kp								Sum	Prel. Ci	Cp	Ap
		1	2	3	4	5	6	7	8				
1	Q	0+	2-	0+	1+	1-	0+	0+	0+	5+	0.0	0.1	3
2	Q	1-	0o	0o	1-	0+	1+	1o	1o	5o	0.1	0.0	3
3		2o	1o	1o	4-	3-	1+	2o	3o	17-	0.7	0.5	10
4		3+	2o	1o	1o	1o	1+	1+	4-	15-	0.6	0.5	9
5	q	2-	2+	1o	1o	0+	0+	1+	1+	9+	0.2	0.2	5
6	q	2-	0+	0+	2o	1+	1-	1o	1o	8+	0.1	0.1	4
7	Q	2-	1-	0o	1-	1o	0+	0+	0o	5-	0.0	0.0	2
8	q	0+	1o	2o	1+	1-	0+	1o	0o	7-	0.0	0.1	3
9	q	0o	0o	0o	1+	1-	1-	2-	3o	7+	0.3	0.1	4
10		4o	2+	1+	2o	3-	2-	1o	2o	17o	0.7	0.5	10
11		3-	2+	0+	0o	0+	0+	2-	3o	11-	0.4	0.3	6
12		3-	0+	1+	2o	2o	1+	1o	1-	11+	0.3	0.3	6
13		2-	1-	1+	0+	1+	2+	3+	6-	17-	1.1	0.8	14
14	D	6o	7+	7-	6-	5o	5-	2+	2-	39+	1.6	1.7	64
15		2o	3-	1o	2-	1+	2+	2-	2+	15o	0.5	0.4	7
16		3o	3-	1o	1+	1+	1-	1o	2-	13-	0.3	0.3	7
17		1+	1-	1o	1-	1+	1+	2+	3+	12o	0.4	0.3	6
18	q	2+	2-	0o	1-	0+	0+	1-	1-	7-	0.1	0.1	4
19	D	2o	3+	2+	4-	3+	3-	5-	5-	27-	1.1	1.0	20
20		4o	2+	2-	2o	2o	2+	2o	2-	18o	0.6	0.5	10
21		3-	3o	2-	1-	2-	1o	2-	3o	15+	0.4	0.5	8
22		3o	2-	2-	1-	1-	2-	1+	3-	13+	0.4	0.4	7
23	D	3+	3-	5o	7-	7-	6o	7o	4-	41o	1.7	1.7	67
24	Q	1o	1-	0o	0o	0+	0+	0o	2+	5-	0.1	0.0	2
25		3o	2-	1+	3-	3+	4-	3+	3+	22+	0.9	0.8	14
26	D	2o	2+	2o	3+	6-	4o	3+	2+	25o	1.0	1.0	20
27		3+	3-	3o	2o	3o	3-	3-	3-	22o	0.8	0.7	13
28	D	3o	2-	4-	4+	5-	5o	7o	5-	34o	1.5	1.5	42
29		4o	5-	3-	2-	1+	1-	1-	1+	17o	0.6	0.7	12
30		2-	3-	1-	1+	2+	1+	1o	1+	12+	0.4	0.3	6
31	Q	2o	0+	1o	1o	1-	0+	0+	0+	6o	0.0	0.1	3
										Means:	0.55	0.50	13
										No. of days :	31	31	31



DAILY AVERAGE INDICES A_p

	Day	Apr. 1965	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan. 1966	Feb.	Mar.
	1	4	4	5	13	5	6	2	4	19	2	3	3
	2	2	2	6	5	11	5	16	5	9	8	3	3
	3	3	3	9	5	6	4	3	1	2	6	11	10
	4	6	4	11	3	7	16	1	8	11	11	13	9
	5	4	26	6	3	4	9	8	13	3	4	18	5
	6	7	6	5	19	3	9	2	17	3	2	8	4
	7	8	5	3	8	6	7	6	9	3	7	4	2
	8	4	11	9	21	6	4	15	4	4	8	4	3
	9	11	12	12	12	7	3	4	5	6	8	3	4
	10	6	7	2	14	4	3	3	0	10	7	7	10
	11	8	2	5	2	6	4	3	3	10	2	12	6
	12	7	4	3	5	6	11	6	3	10	2	5	6
	13	5	3	2	5	3	6	8	10	6	2	6	14
	14	5	3	6	4	8	3	6	3	2	3	2	64
	15	4	4	19	10	6	15	2	2	1	5	4	7
	16	4	18	73	4	7	35	2	1	1	0	5	7
	17	11	5	34	2	11	18	2	4	2	2	4	6
	18	68	4	11	6	21	16	6	6	12	5	3	4
	19	14	2	2	13	27	17	4	10	7	3	14	20
	20	10	4	2	5	17	5	2	17	4	15	17	10
	21	3	5	2	3	12	5	1	10	2	23	4	8
	22	5	6	4	4	5	5	14	4	6	27	14	7
	23	5	5	3	13	9	10	19	2	3	14	28	67
	24	5	6	3	7	14	10	14	4	9	14	19	2
	25	4	3	11	6	13	12	11	5	12	11	10	14
	26	6	4	10	4	7	9	7	4	19	14	3	20
	27	5	6	6	8	6	20	6	4	10	3	4	13
	28	3	5	3	15	3	27	15	2	16	7	2	42
	29	5	3	11	12	6	7	5	3	8	6		12
	30	5	3	14	4	8	3	8	12	6	2		6
	31		4		3	11		6		3	2		3
	Mean:	8	6	10	8	9	10	7	6	7	7	8	13

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

NORTH ATLANTIC, NORTH PACIFIC — MARCH 1966

JAN 1966	WHOLE DAY INDICES: NORTH ATLANTIC	WHOLE DAY INDICES: NORTH PACIFIC	WHOLE DAY INDICES: AVERAGE HIGH LATITUDE	ADVANCE FORECASTS (J_c-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC: 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	NORTH ATLANTIC: SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF: 00	06	12	18	NORTH PACIFIC: 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	GEOMAGNETIC INDICES: K_{FR} HALF DAY (1)	(2)	A_{FR} OBSERVED	A_{FR} PREDICTED	K_{SI} HALF DAY (1)	(2)	A_{SI}
01	6+	6	6	6	6+	6-	7-	7o	6	5	7	7	6	6	6	6	1	0	2	5	0	0	1
02	6+	6	6	6	6+	6o	7-	7-	6	6	7	7	6	6	6	6	0	1	2	9	0	1	1
03	6+	6	6	6	7-	6-	7o	7-	6	6	7	7	6	6	6	6	2	2	8	12	1	1	5
04	7-	6	6	6	7-	6-	7o	7-	6	6	7	7	6	6	6	6	2	2	7	12	1	2	5
05	6+	6	6	6	6+	6-	7-	7o	6	6	7	7	6	6	6	6	2	1	3	7	2	0	4
06	7-	6	6	6	6o	6o	7o	7o	6	5	7	7	6	6	6	6	1	1	3	4	1	0	3
07	6+	6	6	6	7-	6o	7-	7-	6	6	7	7	6	6	6	6	1	0	2	2	0	0	1
08	6+	6	6	6	6+	6-	7-	7-	7	6	7	7	6	6	6	6	1	0	2	4	1	0	2
09	7-	6	6	6	6+	6o	7o	7o	7	6	7	7	6	6	6	6	0	2	4	7	0	1	1
10	6+	6	6	6	6o	6-	7o	7-	6	6	7	7	6	6	6	6	2	2	8	8	2	2	7
11	6+	6	6	6	7-	6-	7-	7-	6	6	7	7	6	6	6	6	1	1	6	6	0	0	2
12	7-	6	6	6	7-	6-	7-	7o	7	6	7	7	6	6	6	6	2	2	6	4	1	1	6
13	7-	6	6	7	7-	6o	7o	7o	6	6	7	7	6	6	6	4	1	3	8	2	0	2	6
14	(4o)	5	(4)	7	5+	2+	3+	5o	6	4	4	5	5	5	5	5	(5)	3	36	2	(7)	(4)	113
15	5-	5	5	7	3-	3+	7-	6o	4	2	6	6	5	5	5	5	2	2	7	5	2	1	5
16	6o	6	6	7	6o	5-	7-	7-	5	5	7	6	6	6	6	5	2	1	6	5	1	1	3
17	6+	5	6	6	6+	5+	7-	7o	6	5	6	7	5	6	6	5	1	2	5	8	0	1	3
18	6+	6	6	6	6+	6-	7-	7-	6	5	7	7	5	6	6	6	1	1	3	10	1	0	2
19	6+	6	6	6	7-	5+	7-	7-	7	5	7	6	6	6	6	6	3	(4)	18	10	2	3	15
20	6o	6	6	7	6+	5-	6-	6+	5	4	7	6	5	6	6	6	2	2	9	6	2	2	6
21	6+	6	6	7	6o	6o	7-	7-	4	4	6	6	6	6	6	6	2	2	7	6	2	2	6
22	6+	6	6	7	6+	6o	7-	7-	6	6	6	6	5	6	5	6	2	2	7	6	1	2	4
23	5+	(4)	5	6	7-	5+	6-	4+	6	6	5	4	6	4	4	4	(4)	(4)	28	6	(5)	(6)	104
24	5o	(4)	(4)	3	3+	4+	7-	6+	3	2	5	6	4	4	4	4	0	1	2	25	0	0	1
25	6+	5	6	4	6-	5o	7o	7-	6	5	6	6	5	6	5	5	2	3	13	10	2	3	11
26	6o	5	6	5	6+	5o	7-	6+	6	4	6	6	5	6	6	5	3	3	15	6	2	3	18
27	6+	5	6	6	6+	6-	7-	7-	6	4	7	6	5	5	5	6	3	2	13	3	3	2	11
28	6-	5	5	6	6+	4+	6-	6+	6	6	7	6	5	6	5	4	3	(4)	20	3	3	(5)	41
29	5+	5	5	7	4o	4+	7-	6+	5	3	6	6	5	5	5	5	3	1	12	3	2	1	7
30	6-	5	5	7	6o	4+	6-	7-	6	5	6	6	5	5	5	6	2	1	5	6	2	1	5
31	6o	5	6	5	6o	5o	6+	7-	6	5	7	6	5	5	5	5	2	1	4	15	2	0	4

			00	06	12	18
QUIET	P	16	16	17	18	22
	S	9	11	5	11	8
	U	3	0	0	1	0
	F	1	1	3	0	0
DISTURBED	P	0	1	0	0	1
	S	1	2	3	1	0
	U	0	0	2	0	0
	F	1	0	1	0	0

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

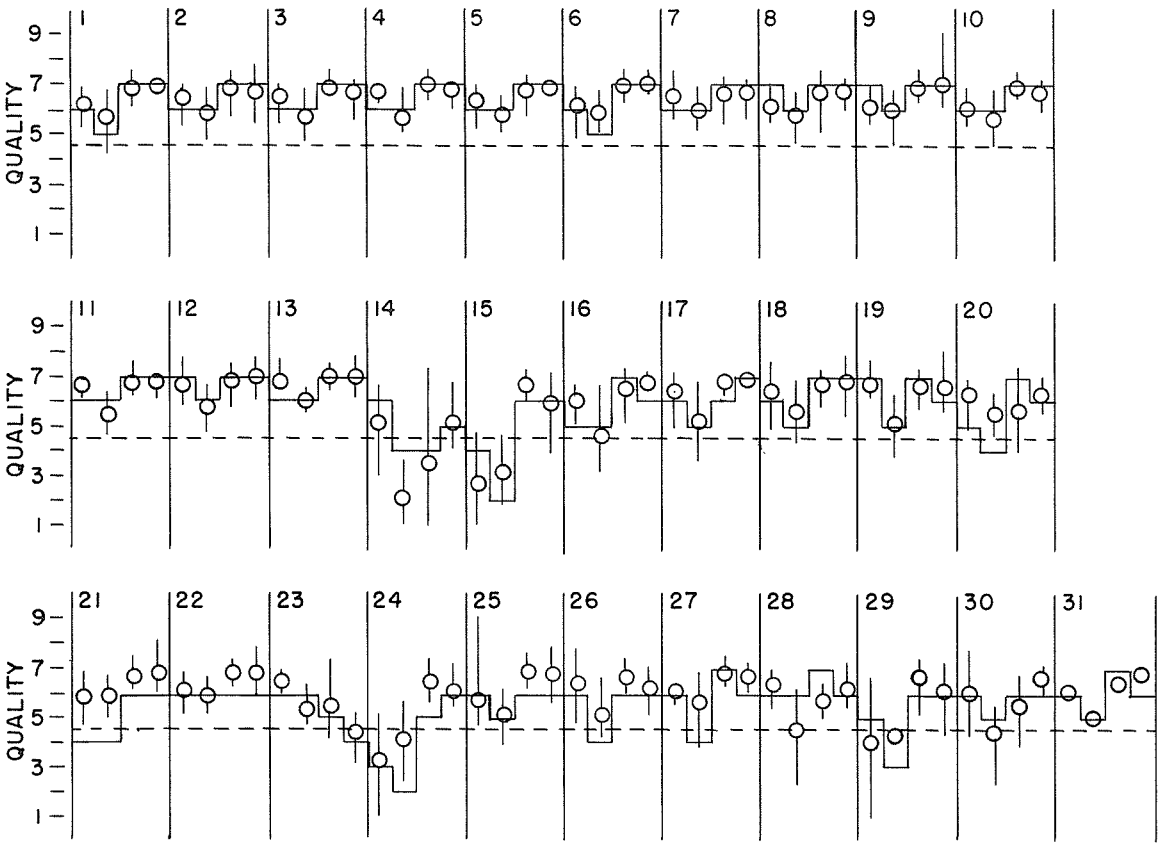
2) THE PREDICTED A_{FR} INDICES ARE ISSUED EACH WEDNESDAY FOR THE COMING SEVEN DAYS. THE VALUE FOR THE FIRST DAY OF EACH PREDICTION PERIOD IS UNDERSCORED.

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS VIIb

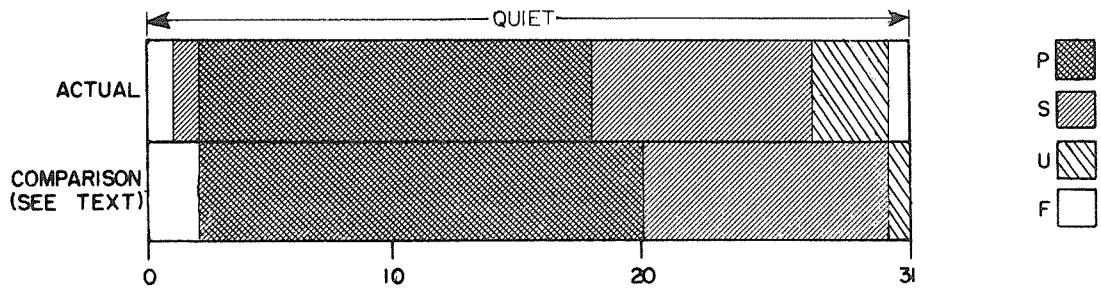
MARCH 1966

NORTH ATLANTIC

— Short-term forecast
o Quality figure
I Range of reports

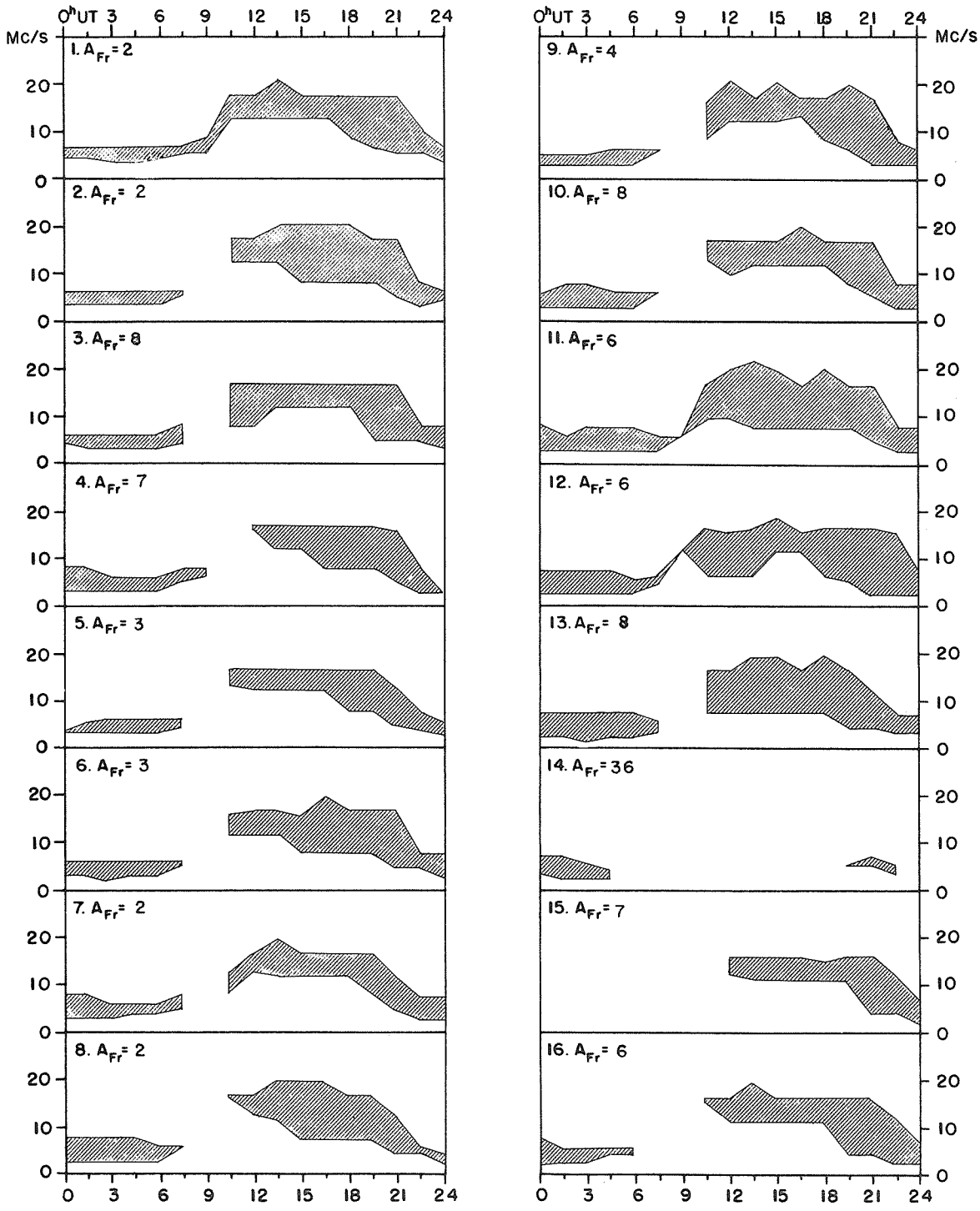


HIGH LATITUDE



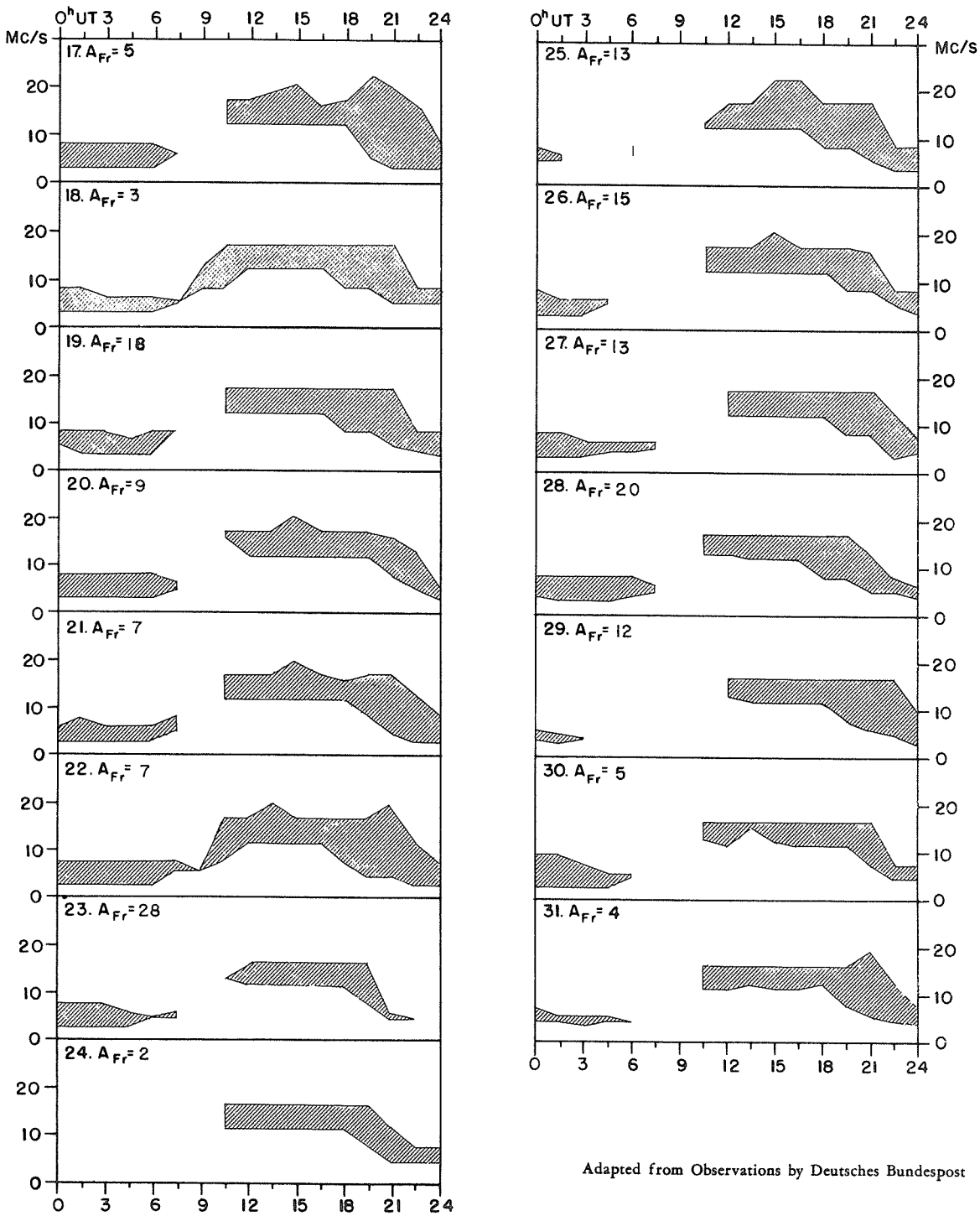
USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

MARCH 1966



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

MARCH 1966



Adapted from Observations by Deutsches Bundespost

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

APRIL 1966

Apr. 1966	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
1	0400		332 333	Solar Activity Magnetic Storm	Exists Expected	
2	0228*	ADALERTPRESTO TENFLARE Toyokawa 020059Z				
	0400		334 335	Solar Activity Magnetic Storm	Exists 01/1238Z	
3	0400		336	Solar Activity	Exists	
4	0250*	ADALERTPRESTO TENFLARE Toyokawa 040156Z				
	0400		337	Solar Activity	Exists	
5	0243*	ADALERTPRESTO TENFLARE Toyokawa 050109Z				
	0400		338	Solar Activity	Exists	
	0405*	ADALERTPRESTO TENFLARE Toyokawa 050207Z				
6	0400		339	Solar Activity	Exists	
7	0400		340	Solar Activity	Exists	
8	0400		341	Solar Activity	Exists	
9	0400		342	Solar Activity	Exists	
16	0400		343	Solar Activity	Exists	Beta Gamma Spot, Flares
17	0400		344	Solar Activity	Exists	
18	0400		345	Solar Activity	Exists	
19	0400		346	Solar Activity	Exists	

* Time when Alert was relayed by AGIWARN