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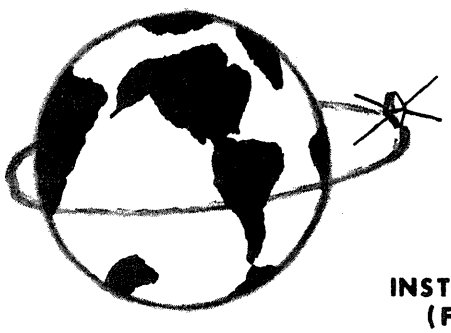
SOLAR-GEOPHYSICAL DATA

Issued: JUNE 1966



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

CRPL-FB 262

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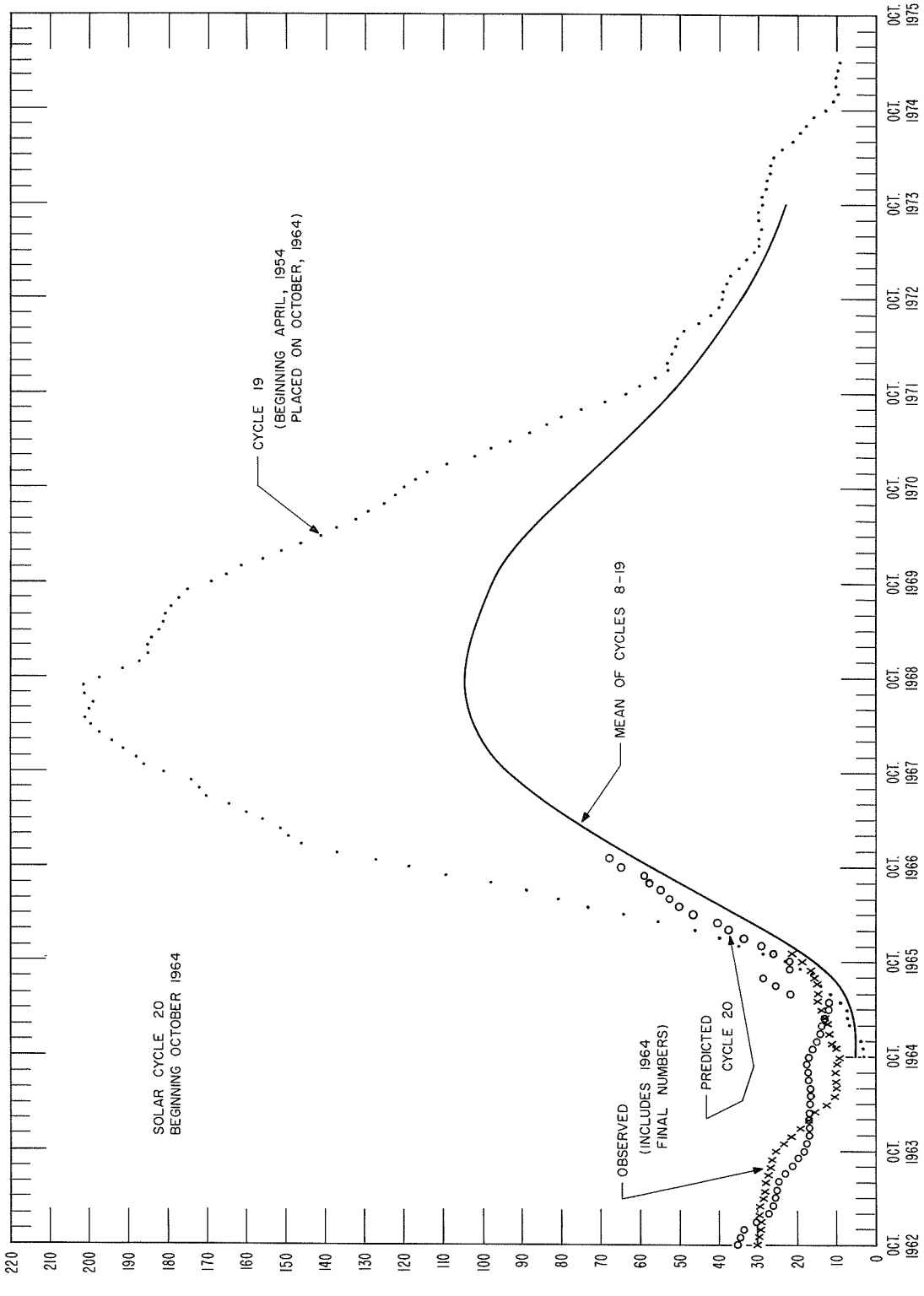
ISSUED

30 JUNE 1966

SOLAR-GEOPHYSICAL DATA

CONTENTS

The descriptive text was republished in January 1966. Addenda have been given in the introduction to each of the CRPL-FB reports, April and May 1966.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

Day	1965 June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.	Mar.	Apr.	May
1	9	18	0	20	52	29	13	18	7	25	64	50
2	24	20	0	20	63	28	8	17	9	11	58	48
3	36	19	15	21	60	20	8	16	20	11	74	57
4	38	17	14	22	62	13	8	15	17	18	74	61
5	34	8	0	22	55	13	8	8	17	12	55	38
6	30	17	16	19	39	29	8	7	17	14	59	23
7	32	22	7	23	27	40	8	7	16	10	70	13
8	24	29	31	22	7	46	15	13	13	9	65	16
9	23	33	12	18	8	38	7	13	10	15	47	8
10	9	29	14	15	13	41	7	7	11	13	37	0
11	7	35	16	19	8	40	0	8	14	10	25	14
12	0	30	13	17	9	26	0	0	8	0	27	14
13	0	23	8	17	8	17	14	17	16	0	24	23
14	14	12	7	8	7	16	0	30	12	0	29	52
15	0	11	0	8	0	10	14	36	16	9	29	46
16	0	8	0	16	7	9	22	57	13	26	35	47
17	12	7	0	8	0	7	21	50	19	44	40	33
18	25	0	7	9	0	0	20	64	24	53	40	27
19	16	0	7	7	10	0	18	68	32	60	24	34
20	21	0	7	0	12	0	15	63	39	54	37	57
21	19	0	7	0	15	0	10	52	41	49	40	80
22	14	0	0	0	26	7	11	44	50	52	56	66
23	7	0	0	11	23	0	9	38	55	40	69	68
24	7	0	8	17	16	7	8	41	42	31	58	68
25	7	7	0	13	24	0	12	27	37	23	56	64
26	7	0	8	17	17	7	23	19	36	18	54	70
27	8	7	14	24	17	0	29	16	35	10	40	66
28	23	0	12	23	9	8	64	14	31	12	40	60
29	18	0	16	37	8	8	64	19		35	48	39
30	14	9	15	50	8	15	44	28		42	52	58
31		7	22		14		38	15		52		56
	15.9	11.9	8.9	16.8	20.1	15.8	17.0	26.7	23.5	24.5	47.5	43.7

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

AMERICAN, R_A

Day	1965 June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.	Mar.	Apr.	May
1	14	12	0	15	33	29	10	25	0	11	32	24
2	20	9	0	17	39	27	10	21	12	12	37	37
3	29	6	7	19	50	20	10	19	14	14	34	35
4	39	6	2	19	43	11	9	13	16	16	49	19
5	33	3	0	16	37	1	10	7	17	15	40	15
6	33	13	0	21	26	29	12	1	15	14	47	17
7	34	22	7	21	16	43	9	0	14	10	49	12
8	21	20	6	19	5	34	2	1	13	10	55	11
9	13	22	9	19	10	38	3	0	12	16	36	8
10	2	19	10	18	11	43	0	0	14	15	26	0
11	0	20	10	17	11	38	0	0	15	7	19	0
12	0	25	14	21	9	24	0	0	11	0	22	5
13	0	15	1	18	10	15	0	19	12	3	16	9
14	0	14	1	12	2	16	0	30	14	1	22	22
15	0	11	0	11	0	14	18	37	13	15	31	28
16	0	11	0	10	0	12	21	31	16	21	28	24
17	10	4	0	5	0	0	18	43	13	43	28	18
18	17	0	3	4	0	0	19	43	25	46	29	14
19	15	0	1	2	8	0	16	55	24	46	16	33
20	13	0	2	1	12	0	0	55	33	41	42	56
21	11	0	0	0	14	0	7	41	36	32	38	59
22	5	0	0	0	22	0	8	34	43	29	42	51
23	0	0	0	14	20	3	10	36	55	19	58	59
24	0	0	0	14	21	4	6	31	47	17	51	59
25	0	0	0	12	16	0	17	18	47	16	47	49
26	1	0	3	15	11	0	20	14	47	10	34	61
27	6	0	16	13	12	0	35	15	32	0	22	48
28	6	0	12	21	11	6	44	14	28	12	22	41
29	8	1	3	35	11	9	55	20		36	33	40
30	13	5	12	41	11	10	47	21		41	33	37
31		0	19		12		28	3		32		56
Mean:	11.4	7.7	4.5	15.0	15.6	14.2	14.3	20.9	22.8	19.4	34.6	30.5

DAILY SOLAR FLUX AT 2800 Mc/s

OTTAWA ARO

OBSERVED FLUX,S

	1965							1966				
Day	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1	70.8	76.0	72.0	75.4	92.0	78.8	75.4	82.0	79.9	81.2	106.9	90.3
2	73.7	75.6	73.0	75.9	93.2	79.5	75.0	78.9	79.2	78.0	106.4	92.5
3	75.2	76.2	77.3	76.6	96.0	81.1	74.9	78.5	79.8	77.1	102.1	92.4
4	78.2	75.9	78.4	76.7	97.5	79.8	74.5	80.5	81.3	76.7	102.5	91.0
5	78.3	75.4	76.3	78.7	91.6	78.0	75.4	80.0	82.9	76.0	101.9	87.0
6	78.4	78.5	78.8	77.1	85.2	80.7	76.2	79.7	84.5	76.6	104.0	86.0
7	77.2	81.5	79.6	77.7	83.6	85.2	75.3	80.9	85.1	77.4	102.6	88.2
8	78.4	81.0	77.3	78.6	82.8	80.4	76.7	80.6	84.6	77.5	107.0	86.2
9	79.0	81.4	77.6	76.1	83.3	82.0	75.0	80.1	85.2	79.6	100.0	85.9
10	78.3	80.3	76.1	75.6	80.4	84.1	75.3	79.8	86.0	79.6	94.4	84.9
11	76.5	79.9	76.7	75.7	76.0	84.2	75.6	80.9	85.8	79.0	93.5	86.6
12	76.0	78.2	75.9	75.3	74.8	80.8	75.9	84.0	85.4	79.3	94.4	90.7
13	76.8	76.3	74.8	75.0	75.8	77.3	74.0	87.2	86.1	81.0	92.6	91.0
14	76.1	74.7	73.7	75.2	74.7	76.0	74.7	93.2	86.1	82.3	90.5	95.1
15	76.7	74.5	72.5	74.9	73.8	76.5	76.8	101.9	85.4	88.1	95.7	97.1
16	76.0	72.1	73.8	73.7	72.3	74.0	77.6	106.0	84.7	93.8	92.6	97.9
17	76.3	71.9	72.4	73.8	72.5	74.3	78.4	101.7	84.1	106.2	94.5	96.7
18	78.2	71.9	73.2	73.0	72.2	75.0	78.4	104.8	84.1	110.6	92.1	96.4
19	74.9	72.5	74.3	72.8	71.8	73.4	76.8	108.6	83.0	115.5	88.2	104.6
20	76.0	73.0	73.7	72.8	72.7	72.7	74.5	102.3	84.7	111.9	92.6	112.8
21	75.9	72.6	73.6	72.5	73.3	72.2	74.1	98.9	87.6	121.2	90.8	120.6
22	78.2	71.5	72.9	71.2	76.2	71.8	72.3	94.7	87.9	105.8	92.4	118.1
23	80.2	70.9	73.0	71.8	78.7	71.3	72.7	93.5	84.5	96.8	97.8	111.1
24	78.1	70.1	72.7	76.1	76.3	71.2	71.2	91.8	83.7	93.5	102.5	114.7
25	79.3	70.0	72.2	75.8	77.9	70.6	72.1	88.1	80.9	91.6	102.6	112.2
26	78.7	69.4	72.0	77.0	78.2	71.8	76.9	85.4	84.8	85.0	100.0	109.4
27	77.7	70.0	74.5	78.4	78.0	74.1	83.7	82.4	84.8	83.4	95.6	105.6
28	76.7	70.6	73.2	80.5	77.2	77.0	83.8	80.5	85.7	87.9	93.6	-
29	76.4	71.1	74.2	87.3	76.7	73.9	84.7	80.7		96.4	93.1	103.2
30	77.0	71.1	75.0	89.0	76.2	75.1	81.9	78.7		99.2	91.9	98.8
31		70.7	74.9		78.1		80.8	77.7		110.6		102.7
Mean:	77.0	74.3	74.8	76.3	79.6	76.8	76.5	87.9	84.2	90.3	97.2	98.3

FLUX ADJUSTED TO 1 A.U., Sa

	1965							1966				
Day	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1	72.8	78.6	74.2	76.8	92.2	77.6	73.3	79.3	77.6	79.7	106.8	91.7
2	75.8	78.2	75.2	77.3	93.3	78.2	72.9	76.3	76.9	76.7	106.3	94.0
3	77.4	78.8	79.6	77.9	96.1	79.8	72.7	75.9	77.5	75.8	102.1	94.0
4	80.5	78.5	80.7	78.0	97.5	78.4	72.3	77.8	79.0	75.5	102.6	92.5
5	80.6	78.0	78.5	80.0	91.6	76.7	73.2	77.4	80.6	74.8	102.0	88.6
6	80.7	81.2	81.1	78.3	85.1	79.2	74.0	77.1	82.1	75.5	104.2	87.5
7	79.5	84.3	81.8	78.9	83.5	83.7	73.0	78.2	82.8	76.2	102.8	89.9
8	80.7	83.8	79.5	79.8	82.6	78.9	74.4	77.9	82.3	76.4	107.3	87.8
9	81.4	84.1	79.8	77.2	83.0	80.4	72.7	77.4	82.9	78.5	100.3	87.5
10	80.7	83.0	78.2	76.7	80.1	82.4	73.0	77.2	83.8	78.6	94.8	86.6
11	78.9	82.6	78.8	76.7	75.7	82.5	73.2	78.2	83.6	78.0	93.9	88.3
12	78.4	80.8	77.9	76.3	74.5	79.1	73.5	81.2	83.2	78.3	94.8	92.6
13	79.2	78.8	76.7	75.9	75.4	75.7	71.7	84.3	83.9	80.0	93.1	92.9
14	78.5	77.2	75.6	76.1	74.3	74.4	72.4	90.1	83.9	81.4	91.0	97.2
15	79.1	77.0	74.4	75.7	73.3	74.8	74.4	98.5	83.3	87.1	96.3	99.2
16	78.4	74.5	75.6	74.5	71.8	72.4	75.1	102.6	82.7	92.9	93.2	100.1
17	78.7	74.3	74.2	74.5	72.0	72.6	75.9	98.4	82.1	105.1	95.2	98.9
18	80.8	74.3	75.0	73.7	71.6	73.3	75.9	101.4	82.2	109.6	92.9	98.7
19	77.4	74.9	76.1	73.4	71.2	71.6	74.3	105.1	81.1	114.6	89.0	107.1
20	78.5	75.4	75.5	73.4	72.0	70.9	72.1	99.0	82.8	111.0	93.5	115.5
21	78.4	75.0	75.3	73.1	72.6	70.5	71.7	95.7	85.7	120.3	91.7	123.6
22	80.7	73.9	74.6	71.7	75.4	70.0	70.0	91.8	86.0	105.1	93.4	121.0
23	82.8	73.2	74.6	72.3	77.9	69.5	70.3	90.6	82.7	96.2	98.8	113.9
24	80.7	72.4	74.3	76.6	75.5	69.3	68.8	88.9	81.9	92.9	103.7	117.7
25	81.9	72.3	73.8	76.2	77.0	68.8	69.7	85.4	79.3	91.1	103.8	115.1
26	81.4	71.7	73.5	77.4	77.3	69.9	74.4	82.7	83.1	84.7	101.3	112.3
27	80.3	72.3	76.0	78.7	77.0	72.1	80.9	79.9	83.2	83.1	96.0	108.5
28	79.3	72.9	74.7	80.8	76.2	74.9	81.0	78.1	84.1	87.6	94.9	-
29	79.0	73.4	75.7	87.6	75.6	71.9	81.9	78.3		96.1	94.5	106.8
30	79.6	73.4	76.4	89.3	75.1	73.0	79.2	76.3		99.0	93.3	101.6
31		73.0	76.3		76.9		78.1	75.4		110.4		105.6
Mean:	79.4	76.8	76.6	77.2	79.1	75.1	74.1	85.0	82.1	89.4	97.8	100.6

CALCIUM PLAGE AND SUNSPOT REGIONS

MAY 1966

MAY 1966	LAT.	MCMATH PLAGE NUMBER	RETURN OF REGION	CALCIUM PLAGE DATA						SUNSPOT DATA		
				CMP VALUES		HISTORY	AGE (ROTATIONS)	DATE FIRST SEEN	DURATION (DAYS)	CMP VALUES		HISTORY
				AREA	INT.					AREA	COUNT	
1.4	N30	8279	(4)	7000	3.0	ℓ ∧ ℓ	2&3	4/25	12	10	8	b - d
4.3	N25	8284	8240	3900	2.5	ℓ ⌐ ℓ	2	4/28	12	200	7	ℓ \ ℓ
5.4	N33	8293	New	(100)	(1.0)	b / d	1	5/8	3			
6.6	N17	8285 (2)	New	1900	3.0	ℓ \ ℓ	1	5/1	> 10	(10)	(3)	b - d
7.6	N30	8286	New	(500)	(2.5)	ℓ ∧ d	1	5/1	> 10			
7.8	N12	8290	New	(300)	(3.0)	b ⌐ d	1	5/5	> 6	10	3	b - d
8.7	N26	8291	New	400	1.5	b / d	1	5/5	> 6			
9.2	N29	8297	New	(600)	(1.0)	b - d	1	5/13	2			
9.8	S20	8303	New	(700)	(2.5)	b - d	1	5/15	2			
10.8	N23	8298	New	(200)	(3.0)	b / d	1	≤ 5/13	≥ 4			
11.1	N35	8289	8254	(1000)	(2.0)	ℓ ∧ d	3	5/4	11	(10)	(3)	b - d
12.0	N22	8295	New	(200)	(2.0)	b - d	1	5/8	2			
12.8	N23	8296	New	(200)	(2.5)	b ⌐ ℓ	1	5/9	11	(60)	(21)	b ∧ ℓ
13.6	S33	8308 (1)	New	(100)	(2.0)	b - d	1	5/17	1			
15.9	N22	8294	8262	5600	2.5	ℓ ⌐ ℓ	3&4	5/8	15	(120)	(23)	b ⌐ ℓ
16.7	N09	8306 (1)	New	100	2.0	b - d	1	5/16	1			
17.9	S27	8299	New	1100	2.5	ℓ ∧ d	1	≤ 5/13	≥ 11			
19.0	N32	8300	8275	1500	2.5	ℓ ∧ ℓ	2	5/13	13	10	2	ℓ - d
19.5	N23	8301	8276	1600	2.0	ℓ ∧ ℓ	2	5/13	13	(10)	(1)	ℓ - d
20.2	N47	8307	New	(300)	(2.0)	b - d	1	5/16	2			
20.9	S22	8302	New	3000	3.5	ℓ / ℓ	1	5/14	14	230	26	b ∧ ℓ
21.4	N18	8304	8272	1000	2.0	ℓ ∧ ℓ	2	5/15	13			
23.7	S06	8311 (1)	New	(100)	(1.5)	b - d	1	5/20	1			
24.6	N26	8309	8273	4100	2.0	ℓ ∧ ℓ	2	5/18	13			
25.7	N16	8310	New	3900	3.0	ℓ ∧ ℓ	1	5/19	13	110	55	ℓ ∧ d
27.4	N33	8312	8278	2500	2.5	ℓ ∧ ℓ	2&3	5/20	14	(10)	(1)	ℓ - d
28.4	S21	8321	New	100	1.5	b - d	1	5/28	6	(10)	(3)	b - d
28.6	N28	8313 (5)	8279	(800)	(1.5)	ℓ - d	3&4	5/22	3			
28.7	N24	8314 (3)	New	2300	3.0	b / ℓ	1	5/24	12	268	17	b ∧ ℓ
28.9	N10	8316	New	(200)	(1.0)	b - d	1	5/25	3			
30.0	N05	8318	New	1500	3.0	b ∧ ℓ	1	5/25	11	53	17	b ∧ d
30.3	N29	8315 (5)	8279	2500	2.0	ℓ ∧ ℓ	3&4	5/24	13	(10)	(1)	b - d
31.5	N21	8319 (6)	8284	1900	2.0	ℓ – ℓ	3	5/25	13	(10)	(2)	b - d

(1) These small and ephemeral regions were seen on the disk for only one day.
(2) Region 8285 developed near the position of region 8253 of the previous rotation.
(3) Region 8314 developed on the disk near the position of region 8313, but at a lower latitude, and eventually spread throughout the remnants of the old plage.
(4) Region 8279 is a combination of regions 8223 and 8248 of the previous rotation.
(5) Regions 8313 and 8315 are parts of region 8279.
(6) Region 8319 is a part of region 8284.

No calcium plage observations were secured at the McMath-Hulbert Observatory on May 7, 11, 12, 1966.

Erratum: Plage Region 8158, CMP date 7.3 February 1966, was latitude N36 instead of N26.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS IIb

MAY 1966

MAY 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.	MAY 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	0050	N21	W28	βγ	16024	9-13	No Obs.				
		N28	W07	αf	16019						
		N27	W01	αp	16021	14	1610	N28	E48	αp	16031
		N20	E35	αp	16020			N23	W51	βp	16032
		S26	W04	βp	16023			N23	W23	βp	16033
1	2215	N22	E23	βp	16020	15	1620	N28	E35	αp	16031
		S23	W16	βp	16023			N23	W66	αp	16032
								N23	W38	βp	16033
2	2315	N20	E10	αp	16020			N22	W03	αp	16034
		S23	W32	αp	16023						
		N22	W50	βf	16025	16	1755	N29	E21	αp	16031
		N16	E54	βf	16026			N23	W50	βp	16033
3	1640	N20	W00	βγ	16020	17-18	No Obs.				
		S22	W43	αp	16023						
		N23	W63	βp	16025	19	1635	S20	E18	βp	16035
		N16	E46	αp	16026			N18	W41	β	16036
		N29	W60	βf	16027			N12	E76	αp	16037
		N30	E50	αp	16028						
						20-24	No Obs.				
4	1615	N20	W13	βp	16020						
		N21	W79	αp	16025	25	1730	S18	W62	βp	16035
		N16	E30	αp	16026			N15	W02	βf	16037
		N27	W73	β	16027			N23	E36	βp	16039
		N26	W35	βf	16029						
						26	1835	N17	W15	βf	16037
6	0110	N20	W30	βγ	16020			N26	E24	βf	16039
		N11	E23	βf	16030			N05	E43	βγ	*16040
6	1605	N21	W38	βp	16020	27-31	No Obs.				
		N12	E15	βf	16030						
8	0020	N20	W59	βp	16020						

* Old Cycle

IIc

PROVISIONAL CORONAL LINE EMISSION INDICES

MAY 1966

No provisional coronal data are available for May 1966 as the instruments at Climax and Sacramento Peak are undergoing calibration. This report may be discontinued for one or more months.

SOLAR FLARES

MAY 1966

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 MAY																		
SACP	01	1340	1404	1352	S35	W38		8282		24	S		C		•8	•10			
LOCK	01	1555	1615	1605	S27	W16		8282		20	SF		C	1605	•20	•20		10	
LOCK	01	1608	1700	1622	N25	E63		8285		52	1B		C					10	FK
LOCK	01			1638										1638	1.00	2.20			
HUAN	01	1610	1654	1643	N22	E62		8285		44	SN	2	C	1643	•70				E
SACP	01	1610	1707D	1646	N22	E62		8285		57D	1		P		1.30	2.22			
KANZ	01	1618E	1625		N19	E60		8285		7D	SF								
HALE	01	1622	1705	1639	N23	E61		8285		43	1N	2	C	1639	1.29				FK
MCMA	01	1639	1654	1645	N24	E61		8285		15	SF		C	1645	•41	1.40			E
ONDR	01	1643	1656		N21	E59		8285		13	1F		V	1646			1.70		CGJ
KANZ	01	1645	1657		N21	E60		8285		12	SB								
LOCK	01	1702	1724	1708	S24	W15		8282		22	SN		C	1708	•60	•70		20	H
HALE	01	1704	1730	1709	S23	W15		8282		26	SN	2	C	1709	•93	1.00			
SACP	01	1705E	1707D	1707U	S25	W15		8282		2D	S		P		•69	•69			
MCMA	01	1705	1721	1710	S25	W14		8282		16	SN		V	1710	•52	•60			DH
HUAN	01	1705	1721	1709	S25	W15		8282		16	SN	2	C	1709	•48	•50			
LOCK	01	1831	1905	1848	S27	W17		8282		34	SF		C	1848	•40	•40		10	K
LOCK	01	2023	2057	2040	S13	W13		8282		34	SF		C	2040	•20	1.00		10	K
LOCK	01	2120	2157	2135	S13	W13		8282		37	SF		C	2135	•20	•20		10	H
MANI	01	2156E	2203D		N15	E68		8285		7D	SN	2		2158	•67	1.40			
LOCK	01	2224	2243	2229	N28	W23		8279		19	SF		C	2229	•20	•30		10	
MANI	01	2226	2242	2233	N27	W22		8279		16	SN	2		2233	•23	•40			
SACP	01	2227	2249	2230	N28	W21		8279		22	S		C		•26	•28			
LOCK	01	2350	2400	2355	S25	W19		8282		10	SF		C	2355	•20	•20		10	
MANI	02	0449E	0455	0451	N22	W42		8278		6D	SN	2		0451	•21	•32			
ONDR	02	0703	0809		S24	W21		8282		66	1N		V	0711			2.20		CDE
MEUD	02	0705	0732	0713	S23	W22		8282		27	SB		C	0713	•90	1.00			
KANZ	02	0713E	0738		S23	W21		8282		25D	1N			0719			2.00		F
LOCA	02	0715E	0745	0715	S23	W19		8282		30D	1B		V	0715	1.89	2.10			
CAPS	02	0716E	0733		S23	W23		8282		17D	SN	3		0722	1.80	2.00		176	
CAPF	02	0724E	0735D	0727	S23	W24		8282		11D	SF		V	0730	1.65	1.80			
MEUD	02	0806	0823	0813	N15	E52		8285		17	1N		C	0813	1.34	2.50			
ZURI	02	0807	0818	0813	N18	E60		8285		11	1F		P	0813	1.26				
ARCE	02	0808E	0822D		N16	E53		8285		14D	2N		C	0808	2.29	4.10			
ARCE	02													0810	3.43	6.10			W
KAND	02	0808	0838		N21	E66		8285		30	2B		C	0815		6.50			
ONDR	02	0809	0832	0815	N20	E65		8285		23	1N		V	0815			2.00		CGH
ARCE	02	0811E	0824D	0816	N18	E55		8285		13D	SN		C	0816	.98	1.90			
KANZ	02	0814E	0833		N20	E54		8285		19D	SN			0818			2.10		
MCMA	02	1149	1220	1155	S27	W25		8282		31	SN		C	1155	•21	•30			D
KAND	02	1155	1203		S24	W22		8282		8	SN		P						
HUAN	02	1416	1436	1429	N24	W14		8279		20	SF	2	C	1429	•26	•26			D
KANZ	02	1430E	1441		N23	W13		8279		11D	SF								EH
HUAN	02	1420	1429	1424	N18	E50		8285		9	SF	2	C	1424	•41	•55			E
MCMA	02	1423	1435	1424	N20	E50		8285		12	SN		V	1424	•67	1.20			E
KANZ	02	1424	1430		N19	E49		8285		6	SF								D
LOCK	02	1551	1558	1553	N22	E12		8284		7	SF		C	1553	•20	•20		10	
KANZ	02	1554E	1608		N23	E18		8284		14D	SF								D
MANI	03	0003	0020	0006	N21	W51		8278		17	SN	2		0006	•31	•44			
LOCK	03	0035	0100	0041	N20	W55		8278		25	SF		C	0041	•40	•80		10	
SACP	03	0057	0136D	0119	N22	W54		8278		39D	S		P		•71	1.02			
MANI	03	0122E	0140		N21	W51		8278		18D	SN	2		0125	•40	•59			
LOCK	03	0130	0145	0138	N20	W55		8278		15	SF		C	0138	•40	•80		10	
MANI	03	0412	0426	0415	N20	W52		8278		14	SF	2		0415	•51	•74			
KANZ	03	0708E	0714		N32	E54		8286		6D	SF								D
KANZ	03	0808E	0813D		N20	W59		8278		5D	SF								D
KANZ	03	0837E	0850		N20	E49		8285		13D	SF								
KANZ	03	0837E	0853		N20	E39		8285		16D	SF								
KANZ	03	0841E	0856D		N27	W58		8278		15D	SF								
ARCE	03	0900E	1010D		N30	W55		8278		70D	SN		C	0945	•45	1.00			
ARCE	03	0930E	1010D		N23	W60		8278		40D	SN		C	0945	•50	1.20			
ONDR	03	0957E	1015		N31	W56		8278		18D	1F		V	1000			1.60		CDJ
KANZ	03	1003E	1103D		N27	W59		8278		60D	1N			1035			2.10		DK
SALT	03	1000E	1005		N15	W32		8279		5D	SB	2							DG
ONDR	03	1036E	1043	1036	N31	W56		8278		7D	1F		V	1036			1.60		CDJ
MCMA	03	1104E	1118		N28	W58		8278		14D	SN		V	1105	•52	1.20			BD
MCMA	03	1120E	1215	1140	N21	W61		8278		55D	SN		V	1140	•52	1.20			EH
MCMA	03	1135	1149	1142	N28	W58		8278		14	SN		V	1142	•31	•70			D
ONDR	03	1141E	1149		N31	W57		8278		8D	1F		V	1142			1.30		CDJ
MCMA	03	1227	1233	1228	N28	W59		8278		6	SN		V	1228	•41	1.00			D
HUAN	03	1239E	1241D		N22	W62		8278		2D	SF	1	P	1240	•31	•51			E
KANZ	03	1343	1348		N20	E40		8285		5	SF								
KANZ	03	1412	1420		N28	W35		8279		8	SF								
SACP	03	1429	1529	1503	N21	W61		8278		60	S		C		•88	1.43			
MCMA	03	1445	1502	1452	N21	W62		8278		17	SF		C	1452	•36	•80			E
KANZ	03	1446	1450		N20	W60		8278		4	SF								
SALT	03	1446E	1510		N22	W60		8278		24D	SB	3		1455	•80	1.60		175	E
LOCA	03	1453	1535	1500	N18	E45		8285		42	1N		V	1500	1.36	2.40			

SOLAR FLARES

MAY 1966

OBSERVATORY	OBSERVED UT DATE	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
	1966 MAY																		
SACP	03	1454	1550	1510	N19	E44		8285		56	1		C		1.92	2.37			
KANZ	03	1457	1530		N20	E48		8285		33	1N			1505			1.90		
MCMA	03	1457	1546	1506	N21	E44		8285		49	SB		V	1506	.52	.80			D
MCMA	03			1511										1511	.83	1.10			
ONDR	03	1458E	1554		N16	E45		8285		56D	1F		V	1506			1.90		CHL
CAPS	03	1500	1521		N18	E44		8285		21	SF	3		1516	1.00	1.60		158	
SALT	03	1508E	1537		N21	E42		8285		29D	1N	3		1516	2.20	3.50		175	GJ
KANZ	03	1612E	1648D		N21	W64		8278		36D	SF								
LOCK	03	1635	1651	1642	N23	W32		8279		16	SF		C	1642	.20	.30		10	
LOCK	03	1738	1805	1743	N26	W25		8279		27	SF		C						
LOCK	03			1758										1758	.20	.30			
HALE	03	1822	1827	1824	N23	W32		8279		5	SN	2	C	1824	.52	.70			
HALE	03	1906	1917	1908	N19	W46		8279		11	SN	2	C	1908	.77	1.20			
LOCK	03	1919	1950	1925	N26	W25		8279		31	SF		C	1925	.20	.30		10	J
MCMA	03	1928E	2015		N27	W26		8279		47D	SF		V	1951	.41	.50			D
LOCK	03	1932	1940	1935	N23	W32		8279		8	SF		C	1935	.20	.30		10	
MCMA	03	2026E	2039D		N19	E43		8285		13D	SN		C	2027	.31	.50			D
LOCK	03	2043	2052	2046	N23	W32		8279		9	SF		C	2046	.30	.40		10	
HALE	03	2044	2054	2049	N23	W33		8279		10	SN	1	C	2049	.52	.70			
LOCK	03	2110	2130	2120	N26	W25		8279		20	SF		C	2120	.20	.30		10	J
MCMA	03	2115E	2132		N27	W27		8279		17D	SN		C	2118	.41	.50			D
MCMA	03	2149E	2157D		N19	W69		8278		8D	SN		V	2149	.31	.60			D
HALE	04	0150	0225	0153	N29	W67		8278		35	1B	2	C	0153	1.70				F
MANI	04	0152	0212D		N23	W69		8278		20D	1N	2		0154	1.30	2.81			
KANZ	04	0654E	0705		N30	W63		8278		11D	SF								
ARCE	04	0920E	1000D	0925	N23	W07		8284		40D	SN		C	0925	.39	.40			
KANZ	04	1028E	1040D		N20	W07		8284		12D	SF								
KAND	04	1152	1217		N21	W07		8284		25	SN		P	1158		1.30			
KAND	04	1158	1207		N21	W07		8284		9	SN		P	1158		1.30			
MCMA	04	1202	1210	1205	N20	W09		8284		8	SF		V	1205	.26	.30			D
CAPF	04	1208E	1209D	1208	N20	W07		8284		1D	SF		S		1.03	1.10			
KANZ	04	1448E	1504		N20	W09		8284		16D	SF								
SACP	04	1543	1606	1600	N06	W83				23	S		C		.43				
KANZ	04	1612E	1620		N20	W10		8284		8D	SF								
KANZ	04	1632E	1642D		N20	W10		8284		10D	SF								
LOCK	04	1859	1954	1913	N24	W39		8279		55	SF		C	1913	.20	.30		10	
LOCK	04	1923	1932	1926	N22	W77		8278		9	SF		C	1926	.10	.30		10	
LOCK	04	2005	2030	2013	N18	W14		8284		25	SF		C	2013	.20	.20		10	
LOCK	04	2117	2137	2124	N24	W39		8279		20	SF		C	2124	.20	.30		10	
MCMA	04	2120	2136		N27	W41		8279		16	SF		V	2125	.26	.40			DH
LOCK	04	2200	2245	2220	N24	W39		8279		45	SF		C	2220	.20	.30		10	J
MCMA	04	2202	2213	2204	N27	W41		8279		11	SN		V	2204	.31	.50			DH
HALE	05	0104	0115	0106	N23	W17		8284		11	SF	2	C	0106	.46	.50			
KANZ	05	0733E	0740		N25	W52		8279		7D	SF								D
KANZ	05	0759E	0904		N25	W52		8279		65D	SN								D
KAND	05	0845	0853		N24	W46		8279		8	SB		P	0847		1.50			
KANZ	05	0900E	1002		N20	W19		8284		62D	SF								D
MCMA	05	1221	1228	1223	N27	W48		8279		7	SN		C	1223	.41	.80			D
MCMA	05	1230	1238	1232	N20	W21		2884		8	SN		C	1232	.26	.40			D
SACP	05	1331	1348	1340	N18	E21		8285		17	S		C		.53	.54			
MCMA	05	1334	1348	1336	N18	E20		8285		14	SF		C	1336	.41	.50			D
KANZ	05	1336E	1344		N25	E03		8285		8D	SN								E
HUAN	05	1412	1422	1417	N19	W90		8278		10	SF	2	C	1417	.31				D
KANZ	05	1432E	1454D		N19	W22		8284		22D									H
HALE	05	1629	1640	1635	N28	W50		8279		11	SF	1	C	1635	.31	.60			
MCMA	05	1633	1638	1635	N27	W50		8279		5	SN		C	1635	.21	.40			EH
LOCK	05	1845	1925	1910	N18	E11		8285		40	SN		C	1910	.90	1.40		10	L
HALE	05	1846	1928	1851	N18	E12		8285		42	SN	1	C	1851	.62	.70			T
MCMA	05	1850	1917D	1854	N17	E12		8285		27D	SN		C	1854	1.29	1.40			FJKL
MCMA	05	1935E	2045D		N16	E04		8285		70D	SN		C	1954	1.65	1.80			FJKL
HALE	06	0055	0101	0057	N27	W34		8284		6	SF	1	C	0057	.26	.40			
IKOM	06	0322	0525		N20	W31		8284		123	1N		V	0325	2.37	3.00		110	EO
ARCE	06	0843E	0848D		N33	W85		8279		5D	SN		P	0843	.33	1.30			
LOCK	06	1728	1743	1735	N19	W37		8284		15	SF		C	1735	.30	.40		10	J
LOCK	06	1748	1803	1754	N19	W37		8284		15	SF		C	1754	.30	.40		10	J
MCMA	06	1857	2130		N20	W39		8284		153	SB		V	1907	.77	1.10			EHKT
LOCK	06	1858	1930	1908	N19	W38		8284		32	SF		C	1908	.40	.60		10	J
LOCK	06	1945	2120	2020	N19	W38		8284		95	SF		C	2020	.40	.60		10	J
LOCK	06	2105	2117	2108	N22	W67		8279		12	SF		C	2108	.20	.50		10	
LOCK	06	2155	2253	2210	N19	W38		8284		58	SF		C	2210	.30	.40		10	J
MCMA	06	2158	2249		N20	W39		8284		51	SB		V	2210	.31	.50			DH
LOCK	06	2315	0015	2320	N19	W38		8284		60	SF		C	2320	.30	.40		10	
SACP	06	2355E	2355D	2355D	N19	W41		8284		0D	S		P		1.31	1.56			
HALE	07	0125	0144	0135	N21	W41		8284		19	SF	1	C	0135	.31	.50			T
HALE	07	1635E	1640	1638	N24	W53		8284		5D	SN	1	P	1638	.21	.40			T
HUAN	07	1718	1727	1721	N19	W49		8284		9	SF	2	C	1721	.21	.27			D

SOLAR FLARES

MAY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 MAY	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. %	
HALE	07	1743	1812	1748	N33	E42		8289		29	SN	2	C	1748	.52	.90			F
HUAN	07	1744E	1811		N32	E35		8289		27D	SN	1	P	1748	.52	.66			E
LOCK	07	1745	1807	1752	N33	E39		8289		22	SF		C	1752	.50	.90		10	
LOCK	07	1800U	1825U	1820U	N23	W90		8279		25U	SF		C	1820	.30	1.10		10	
LOCK	07	1815	1850D	1824	N17	W56		8284		35D	SF		C	1824	.60	1.10		10	H
HALE	07	1820	1857	1824	N22	W58		8284		37	SN	1	C	1824	.36	.80			HKT
HALE	07	1949	2006	1953	N22	W58		8284		17	SN	1	C	1953	.46	1.00			HT
LOCK	07	2247	2256	2250	N20	W60		8284		9	SN		C	2250	.60	1.30		10	
HALE	07	2247	2257	2250	N22	W58		8284		10	SN	1	C	2250	.46	1.00			T
LOCK	07	2332	2345	2336	N18	W24		8285		13	SF		C	2336	.50	.60		10	
MANI	08	0318	0334	0322	N26	W81		8279		16	SN	3		0322	.26	.68			
MANI	08	0429E	0434D	0432	N26	W82		8279		5D	SB	2		0432	.41	1.17			
HUAN	08	1435	1457	1437	N32	E31		8289		22	SF	2	C	1437	.19	.22			D
HUAN	08	1810	1829	1817	N22	W70		8284		19	SF	2	C	1817	.21				D
HALE	09	0131	0146	0137	N23	W73		8284		15	SN	1	C	0137	.31				T
LOCA	09	0905E	0920		N21	W76		8284		15D	1N		S						
MCMA	09	1158	1206	1202	N30	E19		8289		8	SF		C	1202	.52	.70			E
HALE	09	1706	1711	1708	N22	W80		8284		5	SN	1	C	1708	.21				T
HALE	09	2029	2036	2033	N22	W80		8284		7	SN	1	C	2033	.31				T
HUAN	09	2029	2038	2032	N21	W90		8284		9	SN	2	C	2032	.26				D
SACP	09	2029	2040	2032	N20	W86		8284		11	S		C		.26				
MCMA	09	2031	2036	2032	N21	W90		8284		5	SN		C	2032	.26				D
MCMA	09	2138E	2140D		N21	W90		8284		2D	SF		S	2139	.26				DH
HALE	09	2255	2304	2259	N30	W31		8286		9	SN	1	C	2259	.21	.30			
HALE	10	0255	0330	0311	N18	W47		8285		35	SF	1	C	0311	.88	1.40			F
MCMA	10	2129	2141	2131	N24	E90		8294		12	SN		V						A
SACP	11	1435	1520	1448	N20	E77		8294		45	1		C		1.83				
HUAN	11	1441	1452		N19	E78		8294		11	SN	1	C	1448	.60				
SACP	11	1507	1534D	1518	N33	W09		8289		27D	S		C		.87	.94			
HUAN	11	1508	1546	1517	N32	W09		8289		38	SF	2	C	1517	.21	.22			D
KANZ	11	1714E	1719D		N35	E90		8294		5D	SN								A
HUAN	11	1839	1846	1843	N21	E75		8294		7	SF	2	C	1843	.46				E
SACP	11	1840	1847	1842	N22	E73		8294		7	S		C		.35	.76			
SACP	11	1952	2016	2001	N28	E84		8294		24	1		C		1.22				
HUAN	11	1957	2012		N26	E88		8294		15	SF	1	C	2003	.31				D
SACP	11	2041	2110	2053	N32	W86		8293		29	S		C		.18				
SACP	11	2048	2215	2109	N31	E88		8294		87	1		C		1.83				
KANZ	12	1024E	1033		N21	E90		8294		9D	SB			1028			3.90		A
LOCK	12	1822	1910	1839	N43	E80		8300		48	SF		C	1839	.30	1.00		10	
HALE	12	1825E	1930U	1827U	N27	E79		8294		65U	1N	1	P	1827	.62				EK
LOCK	12	2145	2220	2155	N27	W34		8298		35	SF		C	2155	.20	.30		10	
ARCE	13	0805E	0820D		N22	E90		8301		15D	1N		C	0815	.42	2.40			
KANZ	13	0820E	0840D		N24	E85		8301		20D	SF								
KANZ	13	0859E	0925D		N24	E85		8301		26D	SF								
LOCA	13	0954	1028	1005	N23	E82		8301		34	1N		V						
ARCE	13	0955E	1020D		N22	E88		8301		25D	1N		C	0959	.53	2.60			E
WEND	13	1006E	1033D		N25	E82		8301		27D	1N		V		4.13				
CAPS	13	1013E	1025		N27	E80		8301		12D	1F	3		1016	.60	3.50		147	L
MCMA	13	1152	1233	1155	N22	W08		8296		41	SF		V	1255	.31	.32			DH
KANZ	13	1320E	1335D		N23	W34		8298		15D	SF								
LOCK	13	1745	1800	1750	N24	W40		8298		15	SF		C	1750	.20	.30		10	J
LOCK	13	2000	2025	2010	N24	E52		8294		25	SF		C	2010	.60	1.10		10	
LOCK	13	2024	2040	2030	N24	W40		8298		16	SF		C	2030	.20	.30		10	J
LOCK	13	2043	2110	2046	N24	W40		8298		27	SF		C	2046	.20	.30		10	J
ONDR	14	0510E	0534		N23	W15		8296		24D	1N		V	0511			1.80		EHJ
ZURI	14	0715E	0737	0718	N22	W21		8296		22D	1N		P	0718	3.16	3.60			
KANZ	14	0720E	1103D		N23	W17		8296		223D	1N								HK
KAND	14	0730E	0757D		N20	W18		8296		27D	1N		P	0745		3.00			
ARCE	14	0810E	1005D		N21	W18		8296		115D	1N		C	1003	3.14	3.60			H
CAPS	14	0941	0948		N20	W17		8296		7	SF	2		0945	.30	.30		152	D
KANZ	14	1040E	1050D		N22	W23		8296		10D	SF								
KANZ	14	1225	1248		N22	W21		8296		23	SF								H
HALE	14	1657	1705	1658	N22	W26		8296		8	SN	1	C	1658	.62	.80			L
LOCK	14	2105	2136	2110	N21	E28		8294		31	SN		C	2110	.90	1.20		20	
MCMA	14	2107	2132	2108	N22	E29		8294		25	SN		V	2108	.72	.80			E
MANI	14	2345E	2357		N23	W31		8296		12D	SN	2		2345	.40	.52			
SACP	15	0033	0133	0040	N21	W32		8296		60	S		C		.53	.57			
KANZ	15	0755E	0820D		N22	W35		8296		25D	SF								F
MANI	15	0811E	0822	0813	N22	W31		8296		11D	1N	2		0813	1.70	2.20			
ZURI	15	0815E	0830	0820	N22	W34		8296		15D	1N		P	0820	3.58	4.60			
WEND	15	0816	0833		N24	W28		8296		17	1N		V		3.09				
KANZ	15	0822E	0831		N23	W29		8296		9D	SB			0827			2.50		

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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 MAY																		
ONDR	15	0824E	0834		N23	W31		8296		10D	1F		V	0825			2.00		CHJ
MANI	15	0825	0831	0827	N22	W29		8296		6	SB	2		0827	.51	.70			
KAND	15	1050E	1230D		N21	W36		8296		100D	SN		P						
KANZ	15	1618	1635		N22	W37		8296		17	SF								
SACP	15	1648	1740	1701	S22	W75		8303		52	S		C		.69	1.53			
MCMA	15	1659	1712	1702	S22	W78		8303		13	SF		C	1702		1.50			D
LOCK	15	1752	1757	1754	N22	W41		8296		5	SF		C	1754	.30	.50		10	
HUAN	15	1833E	1840D		N21	W39		8296		7D	SF	1	P	1836	.50	.58			E
LOCK	15	1845	1854	1850	N23	W43		8296		9	SF		C	1850	.30	.50		10	
LOCK	15	1901	1908	1903	N22	W41		8296		7	SF		C	1903	.20	.30		10	
LOCK	15	2006	2030	2012	N22	W44		8296		24	SF		C	2012	.30	.50		10	
LOCK	15	2015	2030	2019	S16	E27		8299		15	SF		C	2019	.10	.10		10	
LOCK	16	0017	0035	0022	N26	W68		8298		18	SF		C	0022	.10	.30		10	
LOCK	16	0035	0107	0054	N23	W45		8296		32	SF		C	0054	.50	.80		10	H
KANZ	16	0704E	0720		N21	W47		8296		16D	SN								DH
KANZ	16	0816	0826		N21	W46		8296		10	1N			0819			2.20		E
KANZ	16	0840E	0848D		N24	E43		8301		8D	SF								D
KAND	16	0915	0937		N20	W49		8296		22	SN		P						
ARCE	16	0915E	1010D		N21	W49		8296		55D	SN		C	1005	.20	.30			
KANZ	16	1005E	1015		N21	W49		8296		10D	SF								D
KANZ	16	1023E	1035		N21	W49		8296		12D	SF								D
ONDR	16	1240	1244	1241	N21	W53		8296		4	1F		V	1241			1.20		CDJ
SACP	16	1240	1250	1241	N20	W53		8296		10	S		C		.26	.36			
SACP	16	1332	1340	1334	S20	W90		8303		8	S		C		.18				
SALT	16	1415E	1433D		N21	W50		8296		18D	SN	3			.60	1.10			E
SACP	16	1541	1558U	1544	N23	W52		8296		17U	S		C		.18	.24			
LOCK	16	1839	1852	1844	S26	E54		8302		13	SF		C	1844	.50	.90		10	
SACP	16	1840U	1849	1846	S23	E54		8302		9U	S		C		.43	.59			
HALE	16	1840	1851	1843	S23	E53		8302		11	SN	1	C	1843	.46	.90			
MCMA	16	1840	1851	1842	S24	E55		8302		11	SN		C	1842	.93	1.84			
LOCK	16	1906	1915	1910	S19	W90		8303		9	SF		C	1910	.10	.40		10	
HALE	16	1941	1952D	1946	N23	E11		8294		11D	SN	1	P	1944	.15	.20			T
LOCK	16	2004	2014	2009	N18	W57		8296		10	SF		C	2009	.60	1.10		10	H
LOCK	16	2044	2056	2050	S17	W90		8303		12	SN		C	2050	.40	1.50		10	H
MCMA	16	2046	2057	2050	S20	W90		8303		11	SN		V	2050					D
KANZ	17	0743E	0749		N24	W60		8296		6D	SF								D
KANZ	17	1001E	1006		N21	W65		8296		5D	SF								E
LOCK	17	1624	1642	1631	N24	W61		8296		18	SN		C	1631	.50	1.00		10	
HUAN	17	1626	1636D		N23	W62		8296		10D	SF	1	P	1629	.31				D
ONDR	17	1628E	1640		N21	W64		8296		12D	1F		V	1633			1.70		CDJL
KANZ	17	1630	1639		N24	W63		8296		9	SF								D
LOCK	17	1732	1744	1738	N24	W61		8296		12	SF		C	1738	.40	.90		10	
HUAN	17	1733	1741		N23	W62		8296		8	SN	1	C	1738	.26				D
LOCK	17	1754	1822	1807	N23	W67		8296		28	SF		C	1807	.20	.50		10	
LOCK	17	1828	1846	1835	N22	W69		8296		18	SF		C	1835	.30	.80		10	
LOCK	17	1855	1915	1900	N20	W70		8296		20	SF		C	1900	.80	2.00		10	
LOCK	17	1929	1932D	1932	N25	W66		8296		3D	SN		C	1932	.30	.70		10	
LOCK	17	1955	2025	2010	N23	E22		8301		30	SN		C	2010	.90	1.10		20	
HALE	17	1957	2021D	2003	N25	E21		8301		24D	SN	1	P	2003	.93	1.10			T
LOCK	17	2055	2102	2057	N24	W66		8296		7	SN		C	2057	.30	.70		10	
HALE	17	2056	2058D	2058U	N24	W65		8296		2D	SN	1	P	2058	.21				T
LOCK	17	2125	2134	2128	N24	W66		8296		9	SN		C	2128	.30	.70		10	
HALE	17	2126	2131	2129	N24	W65		8296		5	SN	1	C	2129	.36				T
HALE	17	2340	0001	2346	N23	W67		8296		21	SN	1	C	2346	.52				TH
LOCK	17	2341	2353	2345	N24	W66		8296		12	SF		C	2345	.70	1.60		10	
ARCE	18	0812E			N23	W74		8296			SN		C	0812	.42	1.10			
WEND	18	0814E	0817D		N22	W69		8296		3D	S								
ONDR	18	1108E	1114D		N24	W80		8296		6D	1F		V	1109			1.70		CDJ
HUAN	18	1211E	1216D		N23	E13		8301		5D	SN	2	P	1212	.26	.25			D
HUAN	18	1454	1506	1458	S20	E32		8302		12	SF	2	C	1458	.31	.33			D
SACP	18	1456E	1512	1458	S20	E32		8302		16D	S		P		.43	.46			
KANZ	18	1458E	1506		S18	E31		8302		8D	SN								D
HUAN	18	1756	1912		S21	E31		8302		76	SF	1	C	1850	.26	.27			D
LOCK	18	1757	1855	1805	S22	E32		8302		58	SF		C	1805	.50	.70		10	J
MCMA	18	1803E	1804D		S20	E33		8302		1D	SN		C	1803	.21	.30			D
HUAN	18	1819	1927D		N23	W78		8296		68D	SN	1	C	1923	.36				D
LOCK	18	1838	1940	1855	N19	W34		8294		62	SN		C	1855	.30	.50		10	J
HUAN	18	1843	1909	1850	N18	W30		8294		26	SF	2	C	1850	.21	.22			D
HUAN	18	2054E	2200D		N18	W32		8294		66D	SF	1	P	2056	.26	.27			D
MCMA	18	2119E	2204D	2122	N17	W33		8294		45D	SN		V	2122	.41	.50			E
HUAN	18	2054E	2200D		N23	W80		8296		66D	SF	1	P	2056	.26				D
MCMA	18	2119E	2204D		N23	W80		8296		45D	SF		C	2124		1.50			D
HALE	19	0156	0230	0200	N23	W77		8296		34	SN	1	C	0223	.31				TK
ARCE	19	0911E	0918D		N15	E88		8310		7D	SN		P	0918	.26	1.30			
MCMA	19	1136	1205	1138	N18	W42		8294		29	SN		C	1138	.41	.60			DHT
HUAN	19	1224E	1227D		N12	E88		8310		3D	SF	1	P	1225	.26				D

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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 MAY																		
HUAN	19	1414	1422	1417	N13	E85		8310		8	SF	1	C	1417	.31				D
KANZ	19	1439E	1449D		N17	W43		8294		10D	1N			1442			2.00		H
HUAN	19	1443E	1445D		N18	W42		8294		2D	SF	1	P	1444	.31	.37			CD
SACP	19	1534	1600	1543	N18	E89		8310		26	S		C		.69				
MCMA	19	1512E	1525D		N19	W34		8294		13D	SF		V	1516	.31	.40			E
SACP	19	1521	1650	1547	N20	W33		8294		89	1		C		4.46	4.95			
MCMA	19	1527	1630	1550	N20	W34		8294		63	1N		V	1550	1.55	2.00			EK
LOCK	19	1530	1559	1541	N21	W34		8294		29	1B		C	1541	1.70	2.20		20	
CAPS	19	1538E	1608		N22	W32		8294		30D	1N	2		1548	3.50	4.20		176	
KANZ	19	1541E	1614D		N21	W32		8294		33D	1N			1544			2.00		F
HALE	19	1604	1702	1609	N21	W32		8294		58	SB	1	C	1609	.98	1.30			TF
HALE	19	1653	1710	1655	N19	W43		8294		17	SN	1	C	1655	.26	.40			
MCMA	19	1716E	1808D	1722	N17	W45		8294		52D	SN		C	1722	.41	.60			D
HUAN	19	1723E	1728D		N18	W44		8294		5D	SF	2	P	1723	.31	.37			CD
SACP	19	1934	2001	1944U	N20	W36		8294		27	1		P		1.92	2.17			
HALE	19	1935	2001	1944	N21	W36		8294		26	SN	1	C	1944	.62	.80			TL
HUAN	19	1939	1956	1943	N20	W35		8294		17	SN	2	C	1943	.41	.47			E
LOCK	19	1940	1955	1944	N22	W34		8294		15	SN		C	1944	.90	1.10		20	
HUAN	19	2017	2033	2022	N14	E80		8310		16	SF	1	C	2022	.26				D
MCMA	19	2038	2145		S22	E14		8302		67	SN		V	2127	.62	.70			EK
LOCK	19	2057	2120	2115	S19	E11		8302		23	SF		C	2115	.50	.60		10	
HUAN	19	2116	2133	2126	S21	E14		8302		17	SF	2	C	2126	.41	.41			D
LOCK	19	2120	2135	2125	S19	E11		8302		15	SN		C	2125	.60	.70		20	
HALE	19	2122	2137	2125	S20	E12		8302		15	SN	1	C	2125	.41	.42			
HALE	19	2138	2155	2143	N13	E89		8310		17	SN	1	C	2143	.15				TG
SACP	19	2140	2209	2144	N14	E84		8310		29	S		C		.18				
MCMA	19	2152	2234		S22	E14		8302		42	SN		C	2206	.52	.60			E
HALE	19	2235	2241	2237	N16	E79		8310		6	SN	1	C	2237	.15				TG
LOCK	19	2310	2340	2316	N19	W46		8294		30	SN		C	2316	.70	1.10		20	
HALE	19	2312	0005	2316	N19	W49		8294		53	1B	1	C	2316	1.65	2.70			TFI
SACP	19	2312	2348D	2317U	N20	W47		8294		36D	S		P		1.13	1.45			
HALE	20	0100	0111	0103	N28	E50		8309		11	SN	1	C	0103	.62	1.20			
HALE	20	0100	0134D	0105	N20	W39		8294		34D	SN	1	P	0105	.26	.40			TH
ARCE	20	0910E	1004D		N18	W53		8294		54D	SN		C	1003	1.03	1.90			H
SALT	20	0919E	0924D		S20	E06		8302		5D	SN	1							
ARCE	20	1010E	1044D		S21	E08		8302		34D	1N		C	1013	2.04	2.20			
CAPS	20	1012	1032		N17	W50		8294		20	1N	2				3.20		176	
ARCE	20	1023E	1030D		N19	W51		8294		7D	SN		C	1024	.17	.30			
ARCE	20	1126E			S21	E08		8302			1N		P	1126	2.02	2.20			O
MCMA	20	1218	1232	1219	N29	E90		8312		14	SN		C	1219		1.00			D
HUAN	20	1323	1433D	1343	S21	E05		8302		70D	SN	1	C	1343	.88	.88			E
SACP	20	1523	1603	1535	S24	E01		8302		40	S		C		.70	.70			
SACP	20	1622	1703	1632	S24	W00		8302		41	1		C		2.71	2.71			
LOCK	20	1630	1642	1633	S25	E01		8302		12	SN		C	1633	.60	.70		20	
MCMA	20	1631	1651	1633	S25	E00		8302		20	SN		V	1633	.72	.80			ET
LOCK	20	1710	1740	1720	S21	E02		8302		30	SF		C	1720	.40	.40		10	
MCMA	20	1714E	1800D		S25	E00		8302		46D	SN		C	1714	1.29	1.40			E
LOCK	20	2010	2050	2021	N20	W60		8294		40	SF		C	2021	.50	1.00		10	
HUAN	20	2017E	2034D	2020	N18	W62		8294		17D	SN	2	C	2021	.38				E
SACP	20	2040	2059	2047	N35	W15		8300		19	S		C		.53	.58			
LOCK	20	2044	2055	2047	N36	W15		8300		11	SF		C	2047	.40	.60		10	
LOCK	20	2100	2112	2104	S24	W03		8302		12	SN		C	2104	.50	.60		10	
SACP	20	2102	2116	2105	S25	W02		8302		14	S		C		1.05	1.05			
MCMA	20	2103	2107	2105	S26	W02		8302		4	SN		C	2105	.62	.70			E
LOCK	20	2150	2225	2205	S21	W02		8302		35	SF		C	2205	.40	.40		10	
LOCK	20	2246	2350	2300	S21	W01		8302		64	1N		C	2300	2.10	2.30		20	J
CATA	21	0603E	0635D	0623	N11	E60		8310		32D	S		C	0623	.46	.90			
CATA	21	0645E	0700D	0647	N19	W61		8294		15D	1		C	0647	.92	2.00			
CATA	21	0745E		0746	S21	W05		8302			S			0746	.50	.50			
MCMA	21	1132E	1212	1139	N16	E55		8310		40D	SN		C	1139	.52	.90			D
HUAN	21	1154	1234	1216	N18	W67		8294		40	SN	2	C	1216	.80				E
HUAN	21	1242	1306	1252	N18	W67		8294		24	SN	2	C	1252	.31				
SACP	21	1300	1310	1304	N15	W70		8294		10	S		C		.18	.34			
SACP	21	1326	1340U	1332	N15	W71		8294		14U	S		C		.35	.71			
HUAN	21	1353	1406	1357	S18	W13		8302		13	SB	2	C	1357	.80	.80			E
MCMA	21	1355	1405	1359	S18	W13		8302		10	SN		V	1359	.83	.90			E
SACP	21	1356	1407	1359	S17	W13		8302		11	S		C		1.22	1.22			
HUAN	21	1409	1438	1418	N18	W68		8294		29	SN	2	C	1418	.37				E
MCMA	21	1435	1520	1445	N15	E54		8310		45	1N		C	1445	1.29	2.20			ET
HUAN	21	1437	1503	1444	N13	E56		8310		26	1F	2	C	1444	1.30	1.80			E
HUAN	21	1620	1649	1634	N18	W69		8294		29	SF	2	C	1634	.31				D
SACP	21	1650	1658	1654	S17	W14		8302		8	S		C		.35	.35			
MCMA	21	1652	1700	1656	S18	W14		8302		8	SN		C	1656	.31	.31			E
MCMA	21	1722	1736	1729	N15	E53		8310		14	SF		C	1729	1.13	1.95			EH
HUAN	21	1736	1755	1740	N18	W70		8294		19	SF	2	C	1740	.31				D
SACP	21	1830	1848	1836	N18	W70		8294		18	S		C		.35	.69			
MCMA	21	1833	1840D		N19	W72		8294		7D	SN		V	1838		1.00			D
HUAN	21	1833	1845	1837	N19	W70		8294		12	SN	2	C	1837	.39				D

SOLAR FLARES

MAY 1966

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 MAY																		
SACP	21	1941	1947	1942	N14	W74		8294		6	S		C		.26	.58			
HUAN	21	2111	2122	2115	N17	W72		8294		11	SF	2	C	2115	.26				D
LOCK	21	2330	2345	2338	N16	W78		8294		15	SF		C	2338	.60	1.90		10	
SACP	21	2333	2344U	2339	N14	W77		8294		11U	S		C		.43	1.06			
LOCK	22	0116	0120	0118	N20	W70		8294		4	SN		C	0118	.40	1.10		10	
WEND	22	0545E	0558D		N18	W76		8294		13D	SN								
MANI	22	0613	0620	0615	N20	W82		8294		7	SN	2		0615	.25	.60			
MANI	22	0638	0648	0640	N13	E49		8310		10	SN	2		0640	.83	1.30			
MEUD	22	0757	0802		N23	W36		8301		5	SF		C						
ONDR	22	0916	0923		N17	W80		8294		7	1F		V	0918			2.90		DCJ
MEUD	22	0917	0928	0918	N17	W85		8294		11	SN		C						
KAND	22	0921E	1000D		N19	W80		8294		39D	SN		P						
KAND	22	0937	1000D		N23	W73		8294		23D	SN		P						
HUAN	22	1702	1711	1705	N13	E39		8310		9	SF	2	C	1705	.31	.35			D
HUAN	22	1730	1741	1731	N13	E39		8310		11	SF	2	C	1731	.31	.35			D
HUAN	22	1837	1942	1848	N37	E61		8312		65	SB	2	C	1848	.72				E
MCMA	22	1839	1933	1850	N39	E61		8312		54	1N		V	1850	.83	2.10			
SACP	22	1840E	1945U	1850	N39	E60		8312		65U	1		C		2.08	3.79			
LOCK	22	2156	2225	2210	N18	W90		8294		29	SN		C	2210	.40	1.50		10	H
LOCK	22	2228	2250	2234	N18	W90		8294		22	SF		C	2234	.30	1.10		10	H
LOCK	22	2355	0020	0005	N18	W90		8294		25	SF		C	2405	.30	1.10		10	H
LOCK	23	0045	0052	0048	N22	W80		8294		7	SF		C	0048	.30	1.10		10	
CAPS	23	0633	0704		N15	W90		8294		31	SN	3		0639	.60				G
KANZ	23	0714E	0736		N00	E90				22D	1N			0716			3.00		A
ARCE	23	0715E			N18	W90		8294			SN		P	0715	.25	1.40			
KANZ	23	0731E	0745		N28	E48		8312		14D	SF			0733			1.70		D
ARCE	23	0900E			N18	W90		8294			SN		C	0900	.17	.90			
KANZ	23	1026E	1039		S21	W34		8302		13D	SF								E
KAND	23	1036E	1053		N19	W90		8294		17D	SN		P						
KAND	23	1049	1104		N20	W90		8294		15	SN		P						
MEUD	23	1148E	1202	1149	N17	W90		8294		14D	1N		C						
MCMA	23	1202	1223	1206	N19	E31		8310		21	SF		C	1206	.41	.50			E
HUAN	23	1335	1358	1349	N27	E48		8312		23	SN	2	C	1349	.31	.41			D
SACP	23	1335	1400	1341	N28	E47		8312		25	S		C		.43	.58			
MCMA	23	1338	1357	1347	N29	E47		8312		19	SN		C	1347	.31	.50			D
MEUD	23	1340	1410		N17	W90		8294		30	SF		C						
HUAN	23	1358	1412	1403	S19	W39		8302		14	SF	1	C	1403	.31	.35			D
SACP	23	1416	1437	1422	N30	E49		8312		21	S		C		1.13	1.57			
MCMA	23	1416	1445	1424	N29	E47		8312		29	SF		C	1424	.31	.50			D
HUAN	23	1420	1437	1428	N29	E49		8312		17	SF	2	C	1428	.26	.35			D
SACP	23	1428	1437	1433	S23	W36		8302		9	S		C		.35	.39			
SACP	23	1441	1456D	1445	S23	W36		8302		15D	S		P		.43	.49			
HUAN	23	1514	1606	1526	N27	W58		8300		52	SF	2	C	1526	.21				D
MCMA	23	1930	1948	1939	N29	E73		8313		18	SF		V	1939	.83	1.70			D
HUAN	23	1933E	1953	1941	N28	E72		8313		20D	SF	1	C	1941	.26				CDH
HUAN	23	1934	1948	1937	S19	W42		8302		14	SF	2	C	1937	.39	.46			E
HALE	23	2310	2322	2315	N31	W70		8300		12	SF	1	C	2315	.15				
LOCK	24	0055	0113	0101	N27	E40		8312		18	SF		C	0101	.50	.80		10	
LOCK	24	0112	0120	0117	N29	E43		8312		8	SN		C	0117	.40	.60		10	
ONDR	24	0823	0848		N30	W75		8300		25	1F		V	0836			1.40		GJL
ARCE	24	0800E	0910D		N23	E58		8314		70D	1N		C	0810	2.27	4.60			
KAND	24	0838E	1030		N21	E56		8314		112D	1B		C	0946		5.10			
ARCE	24	0844E			N23	E58		8314			1N		P	0844	1.34	2.80			O
KAND	24	1020	1045		S18	W49		8302		25	SF		C						
MEUD	24	1132	1139	1136	S22	W50		8302		7	SB		C	1136	.93	1.50			
HUAN	24	1225	1309	1228	S21	W53		8302		44	SN	1	C	1228	.70	.92			E
MCMA	24	1226	1242D	1228	S23	W50		8302		16D	SN		V	1228	.62	1.10			EHK
MEUD	24	1228	1258D	1235	S21	W50		8302		30D	SN		C	1235	1.08	1.70			
HUAN	24	1232	1251	1243	N21	E57		8314		19	SF	1	C	1243	.26	.37			D
SALT	24	1232E	1256D		S20	W47		8302		24D	1F	1		1241	2.10	3.30			
HUAN	24	1302	1409	1314	N21	E57		8314		67	SN	1	C	1314	.41	.58			E
KAND	24	1315E	1334		S18	W49		8302		19D	SF		C						
WEND	24	1411E	1417D		S20	W53		8302		6D	SF								
SACP	24	1412E	1428D	1417	N13	E18		8310		16D	S		P		1.22	1.22			
HUAN	24	1412	1436	1418	N12	E19		8310		24	SB	2	C	1418	.88	.88			E
WEND	24	1414	1431D	1417	N12	E19		8310		17D	1B		V		3.61				
MEUD	24	1415	1426D	1416	N12	E20		8310		11D	SB		C	1416	.88	.90			
ZURI	24	1415	1430	1418	N13	E19		8310		15	1N		P	1418	2.10	2.40			
CAPS	24	1420	1430		N13	E15		8310		10	SF	3		1425	.40	.40		149	G
HUAN	24	1514	1543D	1518	N23	E56		8314		29D	SF	1	C	1518	.21	.29			D
WEND	24	1537	1614		S21	W53		8302		37	1N		V		3.09				
HUAN	24	1538	1622	1546	S22	W54		8302		44	SN	1	C	1546	.93	1.28			
ONDR	24	1540E	1626		S19	W54		8302		46D	1N		V	1551			2.90		
MCMA	24	1556E	1617D		S23	W54		8302		21D	SN		C	1557	.52	1.00			E
HUAN	24	1617	1653	1625	N23	E56		8314		36	SN	2	C	1625	.62	.88			E
KANZ	24	1642E	1719D		S22	W53		8302		37D	1								
HUAN	24	1713	1743	1726	N25	E53		8314		30	SF	2	C	1726	.21	.29			D
HUAN	24	1807	1916	1814	S21	W55		8302		69	SF	2	C	1814	.26	.36			D
HUAN	24			1841										1841	.31	.43			
HUAN	24	1817	1908	1838	N21	E52		8314		51	SF	2	C	1838	.52	.70			E
SACP	24	1846	1942	1915	N29	W79		8300		56	S		C		.35				
HUAN	24	1913	1926	1919	N30	W85		8300		13	SF	2	C	1919	.26				D
HUAN	24	1917	1940	1932	N24	E51		8314		23	SF	2	C	1932	.26	.35			D
HUAN	24	1940	2007	1950	N30	W85		8300		27	SN	2	C	1950	.31				D
SACP	24	1943	2058	2001	N29	W81		8300		75	1		C		2.19				
MCMA	24	2002E	2014		N30	W87		8300		12D	1N		V	2004					
HUAN	24	1942	2110D	1959	N22	E52		8314		88D	SN	1	C	1959	.62	.85			E
MCMA	24	2002E	2031D		N24	E52		8314		29D	SN		V	2007	.83	1.50			ET
HUAN	24	2117	2219D	2154	N21	E51		8314		62D	SF	2	C	2154	.57	.78			E
SACP	24	2238	2247	2242	S22	W57		8302		9	S		C		.18	.25			
MCMA	24	2241	2248	2243	S23	W57		8302		7	SN		C	2243	.31	.60			D

SOLAR FLARES

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OBSERVATORY	OBSERVED UT DATE 1966 MAY	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
SACP	25	0045	0100	0052	S22	W59		8302		15	S		C		.78	1.18			
ONDR	25	0448	0500D		S21	W62		8302		12D	1F		V	0450			1.60		CJ
ONDR	25	0526E	0538		S22	W60		8302		12D	1F		V	0529			2.00		CDJ
CATA	25	0620E	0645D	0634	N13	E10		8310		25D	S		C	0634	.79	.80			
CATA	25	0625E	0650D	0634	S19	W60		8302		25D	1		C	0634	1.66	3.70			
ONDR	25	0626E	0645		S22	W60		8302		19D	1B		V	0631			2.50		CHJ
CAPS	25	0633	0650		S21	W60		8302		17	1N	3		0636	1.40	2.80		182	GE
ONDR	25	0635E	0647		N15	W10		8310		12D	1N		V	0635			2.10		CDJ
CAPS	25	0640E	0648		N14	E08		8310		8D	SF	3		0641	.70	.70		151	GE
ONDR	25	0718	0723	0718	S21	W61		8302		5	1F		V	0718			2.10		CDJ
ONDR	25	0727	0737	0730	S21	W61		8302		10	1F		V	0730			2.30		CDJ
KANZ	25	0735E	0738		S21	W49		8302		3D	SF								
ONDR	25	0757	0826	0809	S20	W60		8302		29	1F		V	0809			2.20		CJ
KAND	25	0827E	1004D		S18	W63		8302		97D	1N		P	0838		4.60			
ARCE	25	0840E	1000D		S21	W64		8302		80D	1N		C	0855	1.13	2.70			H
ONDR	25	0852E	0910		S20	W60		8302		18D	1N		V	0855			2.40		HJ
CATA	25	1025E	1041D	1030	N13	E10		8310		16D	S		C	1030	.66	.70			
ONDR	25	1002E	1027		S20	W60		8302		25D	1N		V	1006			2.30		HJ
CATA	25	1025E	1050D	1030	S19	W60		8302		25D	1		C	1030	1.20	2.60			
CAPS	25	1038E	1112		S23	W61		8302		34D	SN	3		1040	.90	1.80		179	G
CATA	25	1042E	1200D	1114	N28	E20		8312		78D	2		C	1114	6.15	7.50			
CAPS	25	1047	1139		N28	E25		8312		52	1F	3			1.80	2.20		157	FG
MCMA	25	1106E	1230	1118	N29	E19		8312		84D	2B		V	1118	6.29	6.70			GHS
MCMA	25	1106E	1302		S23	W66		8302		116D	1B		V	1106		2.00			BKT
CAPS	25	1153	1232		S23	W61		8302		39	1B	3		1202	1.60	3.00		212	GJ
HUAN	25	1157E	1238		S21	W66		8302		41D	SN	1	P	1158	.88				
HUAN	25	1213	1232	1217	N17	E06		8310		19	SF	2	C	1217	.36	.36			D
MCMA	25	1214	1230	1217	N16	E04		8310		16	SN		V	1217	.62	.62			D
SACP	25	1218E	1240	1218	N16	E05		8310		22D	S		C		.80	.81			
SACP	25	1259	1341	1320	N13	E06		8310		42	S		C		.43	.44			
HUAN	25	1305	1331	1314	N13	E07		8310		26	SN	2	C	1314	.52	.53			E
MCMA	25	1307	1329	1314	N12	E05		8310		22	SB		V	1314	.52	.52			E
CAPS	25	1313E	1327		N24	E25		8312		14D	SN	3							CEG
HUAN	25	1328	1358	1345	S21	W67		8302		30	SN	2	C	1345	.52				E
CAPS	25	1331	1350		S23	W62		8302		19	1N	3		1341	2.40	4.60		176	GJ
KANZ	25	1335	1347D		S21	W65		8302		12D	SF								
HUAN	25	1409	1423	1415	S21	W67		8302		14	SN	2	C	1415	.36				D
SACP	25	1506	1541	1514	N16	E03		8310		35	S		C		.70	.70			
HUAN	25	1508	1527	1512	N17	E04		8310		19	SN	2	C	1512	.70	.70			E
MCMA	25	1512E	1533	1514	N16	E03		8310		21D	SN		V	1514	1.03	1.04			E
HUAN	25	1512	1547	1517	S21	W67		8302		35	SN	2	C	1517	.36				D
HUAN	25	1530	1554	1536	N13	E05		8310		24	1B	2	C	1536	2.63	2.63			
SACP	25	1530	1558	1535	N13	E04		8310		28	1		C		3.23	3.23			
MCMA	25	1532	1556	1536	N12	E03		8310		24	1B		V	1536	2.06	2.10			
CAPS	25	1534	1547		N12	E04		8310		13	1B	3		1535	3.00	3.00		204	G
HUAN	25	1644	1714	1659	S21	W70		8302		30	SF	2	C	1659	.62				
LOCK	25	1700	1738	1715	N31	W90		8300		38	SF		C	1715	.50	1.90		10	
HUAN	25	1730	1739	1732	S17	W69		8302		9	SF	2	C	1732	.31				E
HUAN	25	1826	1927		S19	W65		8302		61	SF	2	C	1840	.26				D
LOCK	25	1830	1850	1835	N31	W90		8300		20	SF		C	1835	.30	1.10		10	
HUAN	25	2104	2111	2106	S21	W71		8302		7	SF	2	C	2106	.52				
HUAN	25	2137	2148	2140	N27	E38		8314		11	SN	2	C	2140	.77	.90			E
MCMA	25	2137	2204	2140	N27	E35		8314		27	SN		V	2140	1.03	1.50			E
MCMA	25	2210	2240D		N25	E38		8314		30D	SN		V	2225	1.13	1.60			EK
SACP	25	2308	2317	2308	N26	E39		8314		9	S		C		.35	.41			
SACP	25	2351	2404	2352	N13	W01		8310		13	S		C		.61	.61			
KANZ	26	0953	1010		N13	W06		8310		17	1B								
KAND	26	0955	1003		N16	W06		8310		8	1B		C	1000		2.40			
ARCE	26	0955	1005	0956	N11	W06		8310		10	1N		C	0956	4.21	4.30			HC
CATA	26	1000E	1035D	1002	N14	W06		8310		35D	S		C	1002	.85	.90			
CATA	26	1135E	1155D	1137	N01	E40		8318		20D	S		C	1137	.67	1.00			
HUAN	26	1308	1327	1313	N14	W08		8310		19	SF	2	C	1313	.31	.31			D
MCMA	26	1312	1353		N14	W07		8310		41	SF		V	1314	.31	.31			DK
HUAN	26	1524	1617	1606	S21	W82		8302		53	SF	2	C	1606	.21				D
HUAN	26	1554	1609	1600	N14	W08		8310		15	SF	2	C	1600	.36	.36			D
MCMA	26	1556	1608	1605	N14	W08		8310		12	SN		C	1605	.41	.42			D
SACP	26	1559E	1559D	1559U	N14	W08		8310		0D	S		P		.53	.54			
MCMA	26	1631	1800	1634	N05	E46		8318		89	SN		V	1634	.41	.60			DHK
MCMA	26			1716															
MCMA	26	1653	1720	1706	N26	E26		8314		27	SN		C	1706	.31	.40			E
HUAN	26	1654	1717	1705	N25	E26		8314		23	SF	2	C	1705	.36	.39			D
MCMA	26	1714	1726	1716	N14	W08		8310		12	SN		C	1716	.31	.31			H
SACP	26	1739	1744	1740U	S20	W87		8302		5	S		P		.35				
MCMA	26	1739	1750		S20	W85		8302		11	SF		C	1741		.40			D
MCMA	26	1840	1935		N26	E25		8314		55	SF		C	1910	.52	.60			H
HUAN	26	1848	1858	1853	N24	E28		8314		10	SF	2	C	1852	.41	.45			E
HUAN	26	1919	1932	1924	N05	E44		8318		13	SF	2	C	1924	.31	.36			D
SACP	26	1942	2006	1948	N29	E78		8320		24	S		C		.26				
HUAN	26	1942	2013	1950	N29	E80		8320		31	SN	2	C	1950	.26				D
MCMA	26	1942	2015	1957	N29	E78		8320		33	SN		V	1957	.26	.50			D
MCMA	26	2031	2230	2038	N26	E27		8314		119	SN		C	2038	1.24	1.50			FHKT
HUAN	26	2032	2051	2037	N25	E24		8314		19	SN	2	C	2037	.91	.98			E
HUAN	26	2048	2112	2102	N29	E78		8320		24	SN	2	C	2102	.21				D
LOCK	26	2255	2315	2302	N24	E24		8314		20	SF		C	2302	.70	.80		10	
LOCK	26	2310	2318	2313	N17	W08		8310		8	SF		C	2313	.50	.60		10	
LOCK	26	2347	0008	2352	N17	W17		8310		21	SF		C	2352		.80		10	
ARCE	27	0804	0819D	0808	N23	E20		8314		15D	SN		C	0808	.97	1.10			E
CATA	27	0814E	0826D	0815	N24	E20		8314		12D	S		C	0816	.95	1.10			
KAND	27	0831E	0847		N03	E35		8318		16D	SN		P						
HUAN	27	1206	1317	1212	N27	E62		8320		71	SF	2	C	1212	.26				D
SACP	27	1334	1348	1337	N24	E15		8314		14	S		C		.96	.98			
SACP	27	1345	1357	1348	S21	W90		8302		12	S		C		.35				
HUAN	27	1408	1432	1414	N04	E32		8318		24	SB	2	C	1414	.80	.89			E
SACP	27	1409	1426U	1417	N05	E31		8318		17U	1		C		2.26	2.36			
MCMA	27	1411E	1437	1416	N05	E31		8318		26D	SB		V	1416	1.24	1.40			E
LOCA	27	1414	1435	1420	N05	E35		8318		21	SN		V	1420	.85	1.00			
CAPS	27	1419E	1427		N05	E30		8318		8D	SF	3		1424	1.60	1.80		142	

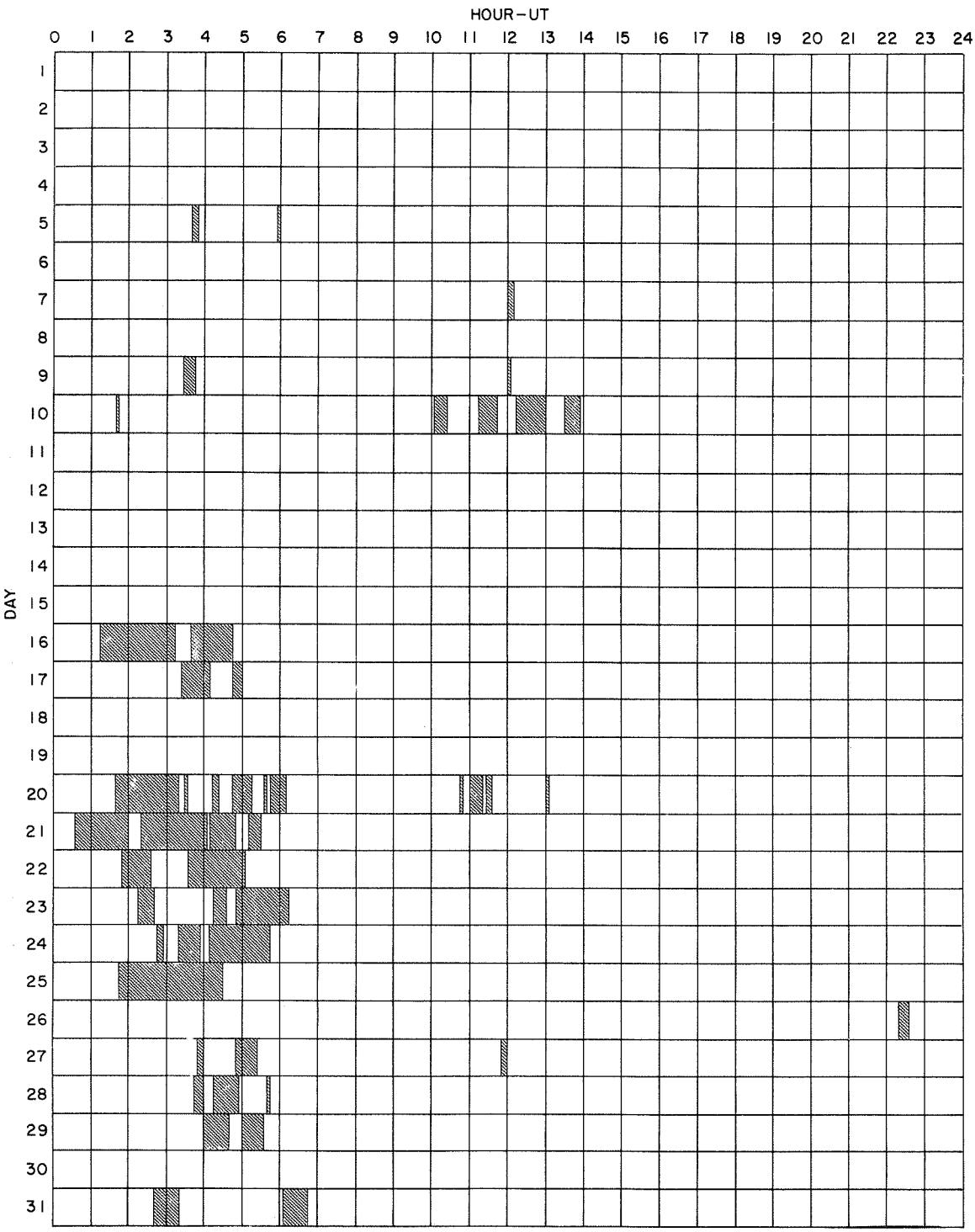
SOLAR FLARES

MAY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
					APPROX.		CENTRAL	MCMATH	CMP										
	DATE	START	END	MAX. PHASE	LAT.	MER. DIST.	DISTANCE	PLAGE REGION	DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 MAY																		
HUAN	27	1549	1607	1553	N05	E31		8318		18	SF	2	C	1553	.26	.26			D
MCMA	27	1551	1605	1554	N05	E30		8318		14	SN		V	1554	.62	.70			E
SACP	27	1620	1629	1624	N30	E03		8312		9	S		C		.43	.45			
MCMA	27	1622	1640D	1624	N31	E03		8312		18D	SF		V	1624	.31	.40			DH
SACP	27	1653	1720U	1706	N31	W07		8312		27U	S		C		1.23	1.28			
HUAN	27	1655	1716	1702	N31	W05		8312		21	SN	2	C	1702	.31	.32			D
HUAN	27	1851	1904	1854	N25	E11		8314		13	SF	2	C	1854	.24	.25			E
MCMA	27	1853	1903		N25	E15		8314		10	SN		C	1855	.62	.70			ET
LOCK	27	2058	2128	2103	N31	W11		8312		30	SN		C	2103	.80	1.00		10	
MCMA	27	2100	2103D	2102	N28	W15		8312		3D	SN		V	2102	.31	.40			E
SACP	27	2100	2106	2102	N27	W15		8312		6	S		C		.70	.73			
LOCK	27	2219	2229	2222	N25	E14		8314		10	SF		C	2222	.50	.60		10	
LOCK	28	0005	0055	0015	N04	E26		8318		50	SN		C	0015	1.50	1.70		20	
SACP	28	0016E	0057U	0020	N05	E27		8318		41U	S		C		1.91	1.94			
MANI	28	0023E	0040	0024	N05	E26		8318		17D	1N	1		0024	2.06	2.36			
LOCK	28	0058	0108	0100	N24	E11		8314		10	SF		C	0100	.30	.30		10	
MANI	28	0454E	0510		N05	E24		8318		16D	SN	1		0456	1.03	1.18			
ARCE	28	0935E	0950D		N03	E22		8318		15D	SN		C	0938	1.42	1.50			
MCMA	28	1451	1520	1459	N05	E17		8318		29	SN		V	1459	.83	.90			EK
SACP	28	1453	1515U	1459	N05	E18		8318		22U	1		C		2.18	2.18			
MCMA	28	1513	1535	1520	N30	W18		8312		22	SF		C	1520	.62	.80			D
SACP	28	1517	1526	1520	N30	W17		8312		9	S		C		.61	.65			
MCMA	28	1532	1545	1535	N14	W43		8310		13	SF		V	1535	1.29	1.70			F
HUAN	28	1536	1833	1621	N16	W41		8310		177	2B	2	C	1621	4.43	5.20			H
SACP	28	1541	1800	1628	N15	W41		8310		139	2		C		10.43	12.07			
MCMA	28	1545	1830	1616	N16	W39		8310		165	2B		V	1622	7.22	9.00			FH
MCMA	28			1622															
LOCA	28	1615E	1700D	1625	N16	W41		8310		45D	2N		V	1625	6.72	8.80			
SACP	28	1621	1708D	1632	N30	E09		8315		47D	S		P		1.22	1.27			
HUAN	28	1622	1711	1632	N29	E10		8315		49	SF	2	C	1632	.62	.62			E
MCMA	28	1623	1800	1633	N31	E10		8315		97	SF		V	1633	1.55	1.80			E
ARCE	28	1655E	1700D		N29	E10		8315		5D	SN		P	1655	1.07	1.30			
LOCK	28	1705E	1800	1705E	N24	E06		8315		55D	SF		C	1705	.80	.90		10	B
ARCE	28	1655E	1700D		N15	W40		8310		5D	2B		P	1655	4.72	6.60			BF
LOCK	28	1705E	1955	1705E	N16	W41		8310		170D	2B		C	1705	3.20	5.50		20	B
LOCK	28	1826	1845	1830	N03	E15		8318		19	SF		C	1830	.80	.83		10	
LOCK	28	1941	2006	1946	N21	E01		8314		25	SN		C	1946	.90	1.00		20	
SACP	28	1943	2000	1946	N23	W02		8314		17	S		C		.61	.61			
MCMA	28	1944	2001D	1945	N22	W03		8314		17D	SN		V	1945	.62	.70			E
LOCK	28	1947	2003	1953	N03	E17		8318		16	SF		C	1953	.60	.70		10	
LOCK	28	2033	2047	2040	N03	E17		8318		14	SF		C	2040	.50	.60		10	
LOCK	28	2137	2200	2150	N03	E11		8318		23	SF		C	2150	.50	.50		10	
LOCK	28	2212	2320	2225	N02	E13		8318		68	SN		C	2225	1.00	1.00		10	
MCMA	28	2214	2232D		N05	E14		8318		18D	SN		V	2218	1.34	1.40			E
MANI	29	0252	0319	0305	N04	E10		8318		27	SN	2		0305	1.86	1.86			
ARCE	29	0910	0915	0910	N30	E49		8320		5	1N		C	0910	1.33	2.40			EC
ARCE	29	0935	0940	0935	N30	E49		8320		5	SN		C	0935	.74	1.30			C
ARCE	29	0945	0950	0947	N30	E47		8320		5	SN		C	0947	1.10	1.90			C
KAND	29	0947	1045		N30	E58		8320		58	1N		C	0947		3.00			
KAND	29	1005	1243		N31	W68		8309		158	2N		C	1015		6.40			
KAND	29	1009	1330D		N24	W01		8314		201D	SN		C	1009		1.60			
KAND	29	1015	1330D		N05	E08		8318		195D	SN		C	1023		1.80			
MCMA	29	1432	1438D	1435	N05	E03		8318		6D	SN		V	1435	.52	.52			D
MCMA	29	1446E	1510D		N23	E13		8319		24D	SN		C	1447	.83	.90			
SACP	29	1446	1520	1459	N25	W12		8314		34	S		F		1.04	1.06			
KANZ	29	1447	1500		N24	W10		8314		13	SN								
HUAN	29	1532E	1725D		N17	E80		8326		113D	SF	1	C	1614	.26				D
HUAN	29	1622	1636	1629	N05	E03		8318		14	SF	2	C	1629	.31	.31			D
SACP	29	1623	1646	1630	N05	E02		8318		23	S		C		1.04	1.04			
KANZ	29	1627	1636		N06	E06		8318		9	SF								
MCMA	29	1629E	1641D	1629	N05	E02		8318		12D	SN		V	1629	.83	.83			D
MCMA	29	1922E	2030D		S20	E90				68D	SF		V	1938					
IKOM	30	0040	0100		N22	W42		8314		20	SF		V	0041	.31	.50			DG
IKOM	30	0230	0305D		S17	E90		8328		35D	SF		V				2.30	70	D
KAND	30	0802	0812		S25	E90		8328		10	SN		P						
MCMA	30	1242E	1310D		S20	E85		8328		28D	SF		V	1247		1.00			D
HUAN	30	1422	1432	1426	N31	E52		8330		10	SF	1	C	1426	.26	.36			D
SACP	30	1506	1513	1508	S20	E82		8328		7	S		C		.26				
LOCK	30	1742	1759	1747	S22	E80		8328		17	SN		C	1747	.40	1.40		10	
HUAN	30	1743	1752	1746	S21	E85		8328		9	SF	1	C	1746	.21				D
SACP	30	1751E	1757U	1751	S20	E80		8328		6U	S		P		.35				
HUAN	30	1935	1946	1937	N31	E53		8330		11	SF	2	C	1937	.19	.26			D
HUAN	30	2051	2058	2053	S21	E80		8328		7	SF	2	C	2053	.21				D
LOCK	30	2052	2103	2055	S22	E77		8328		11	SF		C	2055	.50	1.60		10	
SACP	30	2053	2100U	2055	S20	E78		8328		7U	S		C		.53				
HUAN	30	2109	2126	2118	S21	E80		8328		17	SF	1	C	2118	.26				D
LOCK	30	2115	2145	2130	N31	E56		8325		30	SF		C	2130	.30	.60		10	
HUAN	30	2209	2219D		N32	E51		8325		10D	SF	1	P	2216	.26	.36			D
LOCK	30	2210	2230	2215	N31	E56		8325		20	SN		C	2215	.20	.40		10	
WEND	31	0516	0547D		N31	E33		8329		31D	1N		V		5.16				
ARCE	31	0743E	0805D		N16	W76		8310		22D	SN		C	0843	.42	1.10			H
WEND	31	0926E	0944D		N12	E51		8326		18D	1N		V		3.09				
LOCA	31	1028	1100	1035	S21	E66		8328		32	1N		V	1035	1.89				
ZURI	31	1033	1040	1034	S21	E69		8328		7	1F		P	1034	1.05				
HUAN	31	1213	1306		N31	E30		8329		53	SF	1	C	1242	.26	.30			D
HUAN	31	1428	1600	1526U	N31	E29		8329		92	SN	2	C	1526	.62	.72			E
HUAN	31	1711	1755	1720U	N31	E27		8329		44	SN	1	P	1720	1.24	1.45			
LOCK	31	1720	1732	1725	N32	E27		8329		12	SN		C	1725	.30	.40		10	J
LOCK	31	1740	1752	1745	N32	E27		8329		12	SN		C	1745	.30	.40		10	J
HUAN	31	1817	1835	1822	N31	E27		8329		18	SF	2	C	1822	.52	.60			DH
LOCK	31	1818	1837	1828	N32	E27		8329		19	SN		C	1828	.40	.60		10	J
LOCK	31	1847	1910	1855	N32	E27		8329		23	SN		C	1855	.40	.60		10	J
HUAN	31	1916	1923	1918	N30	E25		8329		7	SF	2	C	1918	.39	.43			
LOCK	31	1918	1930	1921	N32	E27		8329		12	SF		C	1921	.30	.40		10	J
HUAN	31	1946	2011	1949	N31	E26		8329		25	SF	1	C	1949	.31	.35			D
HUAN	31	2028	2041	2033	N31	E25		8329		13	SF	2	C	2033	.21	.23			D
LOCK	31	2308	2325	2315	N32	E24		8329		17	SF		C	2315	.30	.40		10	

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

MAY 1966



Observatories included:

Arcetri	Herstmonceux	Kanzelhöhe	Meudon	Sacramento Peak
Capri-F (German)	Huancayo	Locarno	Mitaka	Tortosa
Catania	Ikomasan	Lockheed	Monte Mario	Wendelstein
Haleakala	Kandilli	Manila	Ondrejov	Zürich

SOLAR FLARES

FEBRUARY 1966

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 FEB																		
HALE	01	0040	0047	0041	N36	E85		8158		7	SF	1	C	0041	.10				H
HALE	01	1916	1924	1917	N39	E85		8158		8	SN	2	C	1917	.20				
ATHN	02	0714E	0742	0715	N35	E68		8158		28D	1B	1		0715	.66	2.80	1.80		
KANZ	02	0737E	0814D		N35	E63		8158		37D	1N			0742			2.30		
WEND	02	0758E	0816		N36	E63		8158		18D	1N		P		5.16				
CAPS	02	0801E	0830		N35	E68		8158		29D	2F	3		0815	2.50	7.00		153	
ATHN	02	0815	0822	0817	N35	E68		8158		7	SN	2		0817	.17	.70	1.60		
KANZ	02	0935E	0946D		N35	E63		8158		11D	1N								
ATHN	02	1042	1054	1045	N36	E66		8158		12	SN	2		1045	.46	1.70	1.60		
KANZ	02	1043	1059		N35	E62		8158		16	SN								D
CAPS	02	1316	1326		N35	E66		8158		10	1N	2		1318	1.00	2.60		161	DGL
KANZ	02	1344E	1412		N35	E60		8158		28D	SN								E
HUAN	02	1514	1520	1516	N36	E61		8158		6	SF		C	1516	.62				D
HUAN	02	1506	1607	1525	N28	E28		8154		61	1N		C	1525	2.58	2.95			
ATHN	02	1510	1538D	1531	N27	E30		8154		28D	1B	2		1531	3.30	4.70	1.30		
SACP	02	1512	1620U	1524	N26	E27		8154		68U	1N		C		3.41	3.86			
CAPS	02	1514	1544		N21	E25		8154		30	1N	3		1527	3.10	3.90		194	EFGKL
LOCA	02	1525E	1537D	1535	N25	E33		8154		12D	2N		S	1535	5.47	7.70			G
HUAN	02	1734	1739	1736	N35	E60		8158		5	SF		C	1736	.26				D
LOCK	02	1830	1900	1840	N32	E22		8154		30	SN		C	1840	.20	.30		10	H
HALE	02	1832	1910	1839	N29	E25		8154		38	SF	2	C	1839	.20	.30			
HALE	02	2257	2311	2303	N35	E58		8158		14	SN	1	C	2303	.60				
HALE	02	2326	2359	2338	N38	E60		8158		33	1N	2	C	2338	.80				
HALE	03	0032	0040	0034	N35	E56		8158		8	SF	1	C	0034	.10				J
CULG	03	0032	0047	0034	N36	E58		8158		15	SN		C	0034	.21	.50			
KANZ	03	0930E	0946		N35	E51		8158		16D	1N								
MANI	03	0932	0950D	0935	N36	E59		8158		18D	SN	2		0935	.52	1.10			
KANZ	03	0951	1014D		N35	E51		8158		23D	SN								EH
HUAN	03	1419	1424		N36	E50		8158		5	SF		P	1420	.21	.31			D
MANI	04	0542	0551	0544	N36	E47		8158		9	SN	2		0544	.31	.53			
IKOM	05	0125E	0225D	0135	N35	E33		8158		60D	SF		V	0135	.52	.80		75	D
OTTA	05	1529	1536D	1532	N18	E83				7D	1F		C	1532	1.00				
HALE	05	2047	2114	2101	N16	E80				27	SN	1	C	2101	.52				
SACP	05	2052	2109	2100	N14	E77				17	SF		C						
HALE	05	2106	2122	2109	N35	E18		8158		16	SF	1	C	2109	.10	.10			
	06	2225	2230	NO FLARE PATROL															
CULG	07	0352	0405	0357	N40	E04		8158		13	SN		C	0357	.52	.70			F
KAND	07	1224	1242		N37	E03		8158		18	SF		C						
OTTA	07	1558	1713	1628	N27	W40		8154		75	1N		C	1628	1.78	2.74			JL
OTTA	07	1559	1650	1630	N25	W36		8154		51	SN		C	1630	.78	1.11			JL
MCMA	07	1605E	1700		N29	W38		8154		55D	1B		V	1622	1.39	2.20			FJ
HUAN	07	1607E	1639D		N28	W40		8154		32D	SN		P	1621	1.25	1.55			C
	07	2025	2110	NO FLARE PATROL															
	07	2235	2240	NO FLARE PATROL															
CULG	07	2258	2309D	2303	N21	W42		8154		11D	SF		C	2303	.52	.75			CGHL
CULG	08	0426	0451	0428	N23	W46		8154		25	SF		C	0428	.31	.52			CGL
KANZ	08	0923	0939		N36	W12		8158		16	SF								E
	08	1145	1150	NO FLARE PATROL															
	08	1155	1310	NO FLARE PATROL															
LOCK	08	1959	2005	2001	N24	W57		8154		6	SN		C	2001	.20	.40		10	
MCMA	09	1550	1601	1552	N20	E76		8161		11	SF		V	1552	.21				D
HALE	09	1854	1908	1859	N37	W27		8158		14	SN	2	P	1859	.60	.90			H
	10	0120	0140	NO FLARE PATROL															
KANZ	10	0734E	0806		N34	W39		8158		32D	1N								FH
CAPS	10	0758E	0810		N34	W37		8158		12D	1N	2		0804	1.20	2.00		167	B
ARCE	10	0912E	0935D		N35	W38		8158		23D	SN		C	0935	.34	.57			EH
CAPS	10	0946E	1006		N33	W37		8158		20D	2F	1		1002	4.50	7.40		159	BE
KANZ	10	1010E	1027		N33	W44		8158		17D	SF								D
HUAN	10	1600	1621	1613	N32	W40		8158		21	SN		C	1613	.31	.41			D
HUAN	10	1759	1833		N32	W40		8158		34	SF		C	1810	.21	.27			D
HALE	10	1805	1829	1810	N35	W42		8158		24	SN	2	C	1810	.60	1.10			
LOCK	10	1810	1828	1814	N33	W42		8158		18	SN		C	1814	.50	.90		10	
HALE	10	2109	2119	2112	N33	W45		8158		10	SN	1	C	2112	.31	.60			
CULG	11	0122	0146D	0126	N32	W45		8158		24D	SN		P	0126	1.03	1.90			L
MANI	11	0125	0157	0130	N35	W51		8158		32	SN	2		0130	.62	1.10			
	11	1015	1030	NO FLARE PATROL															
KAND	11	1234	1302D		N30	W50		8158		28D	SF		V						
HUAN	11	1440	1455	1446	N33	W59		8158		15	SF		C	1446	.42				E
ARCE	11	1444E	1458D		N33	W57		8158		14D	SN		C	1445	.49	1.16			
CAPS	11	1444	1504		N34	W51		8158		20	2N	2		1455	2.40	5.30		180	G
ATHN	11	1445	1454	1447	N34	W57		8158		9	SN	2		1447	.39	1.00	1.40		
SACP	11	1641	1700D	1654	N32	W57		8158		19D	1N		P			2.73			
OTTA	11	1641	1718D		N31	W59		8158		37D	2		C	1655	3.92				E
HUAN	11	1641	1725	1653	N33	W60		8158		44	1F		C	1653	1.35				E
MCMA	11	1645	1720	1700	N33	W57		8158		35	1N		V	1700	1.44				F
LOCK	11	1645E	1735	1652	N32	W58		8158		50D	1N		C	1652	2.00	4.80		10	
LOCK	11	2335	0007	2343	N33	W60		8158		32	1N		C	2343	2.80	6.40		20	
MANI	11	2339	2359	2344	N35	W65		8158		20	1B	2		2344	2.49	5.22			
CULG	11	2351E	2359D		N32	W58		8158		8D	1B		S	2355	1.13	2.75			BEF

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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 FEB																		
	12	1210	1245	NO FLARE PATROL															
OTTA	12	1331	1347	1333	N32	E90		8166		16	1B		C	1333	.68				T
MCMA	12	1354E	1416	1403	N33	E90		8166		22D	SB		V						E
OTTA	12	1402	1412	1404	N32	E90		8166		10	SB		C	1406	.23				
OTTA	12			1406															
MCMA	12	1428	1439	1433	N33	E90		8166		11	SB		V						E
SACP	12	1429	1439U	1433	N31	E86		8166		10U	SN		C						
OTTA	12	1430	1437	1432	N32	E90		8166		7	1B		C	1432	.51				J
MCMA	12	1454	1503	1456	N33	E90		8166		9	SN		V						E
MCMA	12	1526	1535	1529	N33	E90		8166		9	SN		V						E
OTTA	12	1529	1536	1529	N30	E80		8166		7	SN		C	1529	.17				
LOCK	12	1600E	1725	1600	N30	E85		8166		85D	SN		C	1600	.40	1.40		10	K
LOCK	12			1640															
MCMA	12	1620	1656	1638	N33	E90		8166		36	SB		V						D
LOCK	12	1732	1807	1745	N30	E85		8166		35	SN		C	1745	.40	1.40		10	
LOCK	12	1820	1900	1840	N30	E85		8166		40	SN		C	1840	.40	1.40		10	
LOCK	12	1915	2005	1930	N30	E85		8166		50	SN		C	1930	.40	1.40		10	
MCMA	12	1953	1959	1955	N33	E88		8166		6	SN		V						D
LOCK	12	2118	2135	2125	N30	E85		8166		17	SN		C	2125	.30	1.00		10	
HALE	12	2356	0012	0000	N32	W75		8158		16	1N	1	C	2400	.62				
MANI	13	0122	0132	0124	N28	E82		8166		10	SN	2		0124	.21	.50			
HALE	13	0354	0414D	0401	N33	W75		8158		20D	1B	1	P	0401	1.08				
	14	0910	0925	NO FLARE PATROL															
ARCE	15	0835E	0940D	0850	N30	E46		8166		65D	SN		C	0850	.28	.50			H
KANZ	16	0923E	0931		N29	E31		8166		8D	SF								
ARCE	16	0925	0948	0935	N17	W90		8167		23	1N		C	0935	.35	2.02			
KANZ	16	1401E	1412D		N19	E08		8163		11D	SN								D
SACP	17	1555	1630	1608	N23	E53		8171		35	SF		C			.62			
HALE	17	1854	1903		N31	E14		8166		9	SN	1	P	1856	.26	.30			F
HALE	18	0102	0113	0105	N22	E49		8171		11	SN	1	C	0106	.31	.50			
KANZ	18	0854E	0915		N22	E42		8171		21D	1N								
KAND	18	0857	0925D		N24	E47		8171		28D	SN		C	0902		.72			
MANI	18	0906	0915	0908	N22	E46		8171		9	SN	2		0908	.31	.50			
OTTA	18	1409	1507	1418	N22	E39		8171		58	1N		C	1442	2.48	4.16			FHL
OTTA	18			1442															
KANZ	18	1432E	1500		N22	E38		8171		28D	1F								
CULG	18	2035	2102	2051	S26	E40		8172		27	SF		C	2051	.62	.78			C
MANI	19	0509	0517	0511	N31	W03		8166		8	SF	2		0511	.26	.31			
ATHN	19	1325E	1330	1326	N30	W08		8166		5D	SN	2		1326	.33	.40	1.30		
LOCK	19	2022	2029	2025	N34	W16		8166		7	SN		C	2025	.20	.30		10	
CULG	20	0027	0138	0037	N22	E20		8171		71	SN		C	0037	.52	.62			EHL
ATHN	20	0613	0624	0615	N22	E18		8171		11	SB	2		0615	.30	.40	1.80		
CAPS	20	1136E	1201		N23	E25		8171		25D	SF	1		1142	.60	.70		158	G
CAPF	20	1324E	1350D	1324	N21	E12		8171		26D	1N		P	1324	4.12	4.78			
ONDR	20	1325	1347		N22	E10		8171		22	1N		V	1331			3.00		C
ATHN	20	1329	1346	1333	N22	E12		8171		17	SN	2		1333	1.65	1.90	1.70		
CAPS	20	1330	1337		N23	E24		8171		7	SF	1			.40	.50			
MCMA	20	1405E	1450		N22	E10		8171		45D	SN		V	1405	.69	.80			BFHT
MCMA	20	1537	1730	1546	N22	E10		8171		113	SN		V	1546	1.96	1.90			FHT
LOCK	20	1915	1952	1920	N34	W31		8166		37	SN		C	1934	.40	.60		10	HK
LOCK	20			1934															
MCMA	20	1920	2027D	1934	N22	E08		8171		67D	SF		V	1934	.73	.70			EK
MCMA	20			2005															
LOCK	20	2335	2345	2338	N23	E07		8171		10	SN		C	2338	.20	.20		10	
LOCK	20	2352	0005	2357	N21	W02		8171		13	SN		C	2357	.40	.40		10	
SACP	21	0000	0024	0007	S27	E48		8173		24	SN		C			1.25			
MANI	21	0010E	0030	0012	S25	E48		8173		20D	SN	2		0012	.36	.60			
LOCK	21	1838	1850	1842	N19	W08		8171		12	SN		C	1842	.20	.20		10	
LOCK	21	2238	2249	2241	N17	E15		8174		11	SN		C	2241	.30	.30		10	H
LOCK	21	2342	2358	2345	N25	W06		8171		16	SN		C	2345	.20	.20		10	
TACH	22	0615	0634	0620	N23	W11		8171		19	SN		C	0620	.91	1.10	2.10	80	E
MANI	22	0617E	0622D		N22	W11		8171		5D	SB	1		0618	1.13	1.13			
KANZ	22	0902E	0928D		N28	E70		8177		26D	1N								E
KANZ	22	0902E	0928D		N20	E09		8174		26D	1N								E
KANZ	22	0948E	0955		N23	W06		8171		7D	SN								D
KANZ	22	1009E	1035D		N28	E70		8177		26D	1N								E
KANZ	22	1016E	1033D		N31	W47		8166		17D	SF								D
KANZ	22	1020E	1103D		N20	E09		8174		43D	1N								
KANZ	22	1055E	1103D		N23	W06		8171		8D	SN								E
	22	1235	1310	NO FLARE PATROL															
	22	1335	1345	NO FLARE PATROL															
KANZ	22	1421E	1432D		N28	E68		8177		11D	□								
KANZ	22	1427E	1432D		N20	E05		8174		5D	SF								
LOCK	22	1857	1920	1903	N21	E04		8174		23	SN		C	1903	.40	.40		10	
LOCK	22	1915	1921	1917	N21	W24		8171		6	SN		C	1917	.50	.60		10	H
LOCK	22	2010	2035	2020	N31	E63		8177		25	SN		C	2020	.50	1.20		10	
LOCK	22	2110	2220	2130	N23	W24		8171		70	SN		C	2130	.20	.30		10	
LOCK	22	2126	2150	2133	N31	E63		8177		24	SN		C	2133	.30	.70		10	
LOCK	22	2151	2211	2158	N31	E63		8177		20	SN		C	2158	.20	.50		10	
LOCK	22	2259	0020	2310	N21	E02		8174		81	SN		C	2339	.90	1.00		10	K
LOCK	22			2339		E02													

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 FEB	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
LOCK	22	2259	2320	2303	N29	E61		8177		21	SN		C	2307	1.10	1.60		20	K
LOCK	22			2307															
VORO	22	2307E	2314D	2308	N28	E62		8177		7D	SN		C	2308	.72	1.72		68	D
MANI	22	2307	2330	2311	N30	E70		8177		23	SN	2		2311	.52	1.15			
CULG	22	2308E	2335	2309	N28	E61		8177		27D	SB		P	2309	.83	1.60			
CULG	22	2308E	2400D	2335	N21	E01		8174		52D	SN		P	2335	1.26	1.31			E
CULG	23	0012E	0033D	0018	N28	E61		8177		21D	1B		P	0018	.83	2.20			
LOCK	23	0014	0028	0019	N30	E61		8177		14	SN		C	0019	.40	.90		20	
VORO	23	0016	0024D	0022	N28	E62		8177		8D	SN		C	0022	.63	1.51		58	DK
CULG	23	0126	0210	0145	N28	E61		8177		44	1B		C	0145	.83	2.20			
MANI	23	0143	0202	0149	N29	E69		8177		19	SN	2		0149	.36	.76			
CULG	23	0225	0247	0234	N20	W02		8174		22	SN		C	0234	.41	.41			
TACH	23	0717	0725	0719	N28	E54		8177		8	SN		C	0719	.83	1.70	2.40	55	DY
ATHN	23	0846E	0855	0848	N28	E54		8177		9D	SN	1		0848	.33	.70	1.10		
ATHN	23	0921	0928	0924	N28	E54		8177		7	SB	2		0924	.66	1.40	1.70		
CAPF	23	1243E	1310D	1243	N19	W03		8174		27D	1N		P	1243	2.93	3.30			
MCMA	23	1455E	1515		N21	W08		8174		20D	SN		V	1456	.52	.60			F
MCMA	23	1632	1700	1634	N21	W10		8174		28	SN		V	1634	1.24	1.40			FT
	23	1750	1800	NO FLARE PATROL															
CULG	23	2021	2026	2022	N28	E47		8177		5	SN		C	2022	.21	.36			
CULG	23	2126	2155	2145	N23	W33		8171		29	SN		C	2145	.62	.81			L
CULG	23	2238	2258D	2246	N22	W33		8171		20D	SB		P	2246	1.24	1.68			F
CULG	24	0225	0230D		N21	W14		8174		5D	SB		P	0230	.83	.92			
ARCE	24	0845E	0915D	0900	N20	W22		8174		30D	SN		C	0900	.50	.60			H
ARCE	24	0850E	0905D	0855	N18	W11		8174		15D	SN		C	0855	.34	.39			D
MONT	24	0852	0930	0913	N22	W11		8174		38	SB								
CATA	24	0907E	1050D	0957	N21	W11		8174		103D	SN		C	0957	.35	.30		150	
ATHN	24	0908	0915	0910	N21	W15		8174		7	SN	2		0910	.66	.80	1.20		
ATHN	24	0930	0941	0940	N19	W20		8174		11	SN	2		0940	.50	.60	1.70		
ATHN	24	0930	0941	0932	N21	W10		8174		11	SN	2		0932	.33	.40	1.70		
ARCE	24	0930E	1000D	0940	N18	W11		8174		30D	SN		C	0940	.25	.28			
MONT	24	0953	1046	1000	N22	W11		8174		53	SB								
MONT	24	1109	1200		N22	W08		8174		51	1N								
HUAN	24	1351	1446D		N20	W22		8174		55D	SF		P	1424	1.25	1.31			E
CLMX	24	1508	1513	1509	N20	W17		8174		5	SF		C	1509	.40	.40			
SACP	24	1508	1516	1510	N19	W17		8174		8	SF		C			.52			
CLMX	24	1528	1541	1532	N21	W16		8174		13	SF		C	1532	.30	.30			
HUAN	24	1650	1711D		N20	W26		8174		21D	SF		P	1655	.52	.55			E
LOCK	24	1818	1825	1821	N20	W20		8174		7	SN		C	1821	.20	.20		10	
CULG	24	2214	2226	2216	N24	W44		8171		12	SN		C	2216	.41	.68			
CULG	25	0013	0040	0020	N28	E30		8177		27	SB		C	0020	.41	.56			
CULG	25	0245	0309	0253	N21	W29		8174		24	SB		C	0253	1.24	1.52			H
CULG	25	0435	0454	0439	N31	W89		8166		19	SN		C	0439	.21				
CULG	25	0515	0554D	0526	N20	W31		8174		39D	SN		P	0526	.83	1.04			
IKOM	25	0610	0735D	0700	N30	W90		8166		85D	1B		V	0700			3.23	80	
CULG	25	0750	0808D	0755	N21	W54		8171		18D	SN		P	0755	.52	1.00			
CULG	25	0755	0808D	0801	N28	E25		8177		13D	SF		P	0801	.41	.52			
KAND	25	1054	1100		N21	W24		8174		6	SN		P						
	25	1205	1215	NO FLARE PATROL															
KANZ	25	1326E	1333		N21	W61		8171		7D	SF								
HUAN	25	1411	1434		N19	W37		8174		23	SN		P	1416	.57	.66			E
ATHN	25	1414	1431	1418	N20	W35		8174		17	SN	1		1418	.91	1.30	1.70		
CAPS	25	1420	1441D		N19	W32		8174		21D	SB	2		1424	.90	1.30		201	DK
	25	1605	1610	NO FLARE PATROL															
LOCK	25	1655	1740	1715	N21	W64		8171		45	SN		C	1715	.40	.90		10	H
LOCK	25	1713	1727	1720	N21	W36		8174		14	SN		C	1720	.50	.70		20	
LOCK	25	2131	2155	2137	N21	W36		8174		24	SN		C	2137	.40	.60		10	
CULG	25	2330	2400D	2356	N21	W39		8174		30D	SN		P	2356	1.03	1.50			LT
LOCK	25	2335	0000D	2352	N20	W39		8174		25D	SN		C	2352	.80	1.20		20	
VORO	25	2346E	0016	2359	N20	W41		8174		30D	SN		C	2359	.81	1.18		57	E
CULG	26	0055	0145	0115	N20	W41		8174		50	1N		C	0115	1.86	2.16			FJKS
VORO	26	0114E	0127D	0116	N20	W42		8174		13D	SN		C	0116	.81	1.18		60	E
CULG	26	0146	0207	0155	N22	W39		8174		21	SN		C	0155	.62	.90			T
CULG	26	0221	0235	0224	N22	W39		8174		14	SN		C	0224	1.24	1.80			HT
CULG	26	0254	0313	0300	N22	W39		8174		19	1N		C	0300	2.06	3.00			T
CULG	26	0355	0405	0358	N22	W39		8174		10	1N		C	0358	1.44	2.10			T
CULG	26	0514	0530	0519	N22	W39		8174		16	SN		C	0519	1.03	1.50			T
CULG	26	0540	0554	0544	N20	W38		8174		14	SN		C	0544	.62	.84			T
CULG	26	0544	0550D	0547	N22	W39		8174		6D	SN		C	0547	.62	.90			T
CULG	26	0705	0806D	0728	N19	W45		8174		61D	1N		P	0728	1.44	2.24			FT
TACH	26	0728	0735	0729	N19	W45		8174		7	SN		C	0729	.55	.80	2.80	60	EY
KANZ	26	0809E	0834		N20	W46		8174		25D	SF								E
KAND	26	0818	0824		N19	W42		8174		6	SF		P						
KAND	26	0827	0833		N19	W41		8174		6	SN		C						
KAND	26	0831	0858		N17	W46		8174		27	SF		C						
ARCE	26	0937E	0959D	0952	N20	W51		8174		22D	SN		C	0952	1.00	1.78			H
ARCE	26	0937E	0959D		N22	W46		8174		22D	SN		C	0959	.48	.76			E
KAND	26	1000	1028		N19	W44		8174		28	SB		C	1012		1.87			
CAPF	26	1004E	1015D	1004	N21	W48		8174		11D	1N		P	1004	1.76	3.20			
ATHN	26	1008	1026	1015	N22	W44		8174		18	SB	2		1015	.99	1.50	1.80		
CAPS	26	1008E	1029		N18	W44		8174		21D	SB	2		1014	.80	1.10		288	E
CATA	26	1009E	1035D	1010	N19	W48		8174		26D	1B		C	1010	1.63	2.80		220	
KANZ	26	1010E	1014D		N21	W46		8174		4D	SB								D
HUAN	26	1326E	1332D		N19	W52		8174		6D	SF		P	1326	.21	.29			D
LOCK	26	1920	1931	1926	N20	W48		8174		11	SN		C	1926	.20	.30		10	
LOCK	26	2008	2022	2013	N18	W56		8174		14	SN		C	2013	.40	.80		10	
MCMA	26	2017E	2022D		N19	W53		8174		5D	SN		S	2018	.52	1.00			E

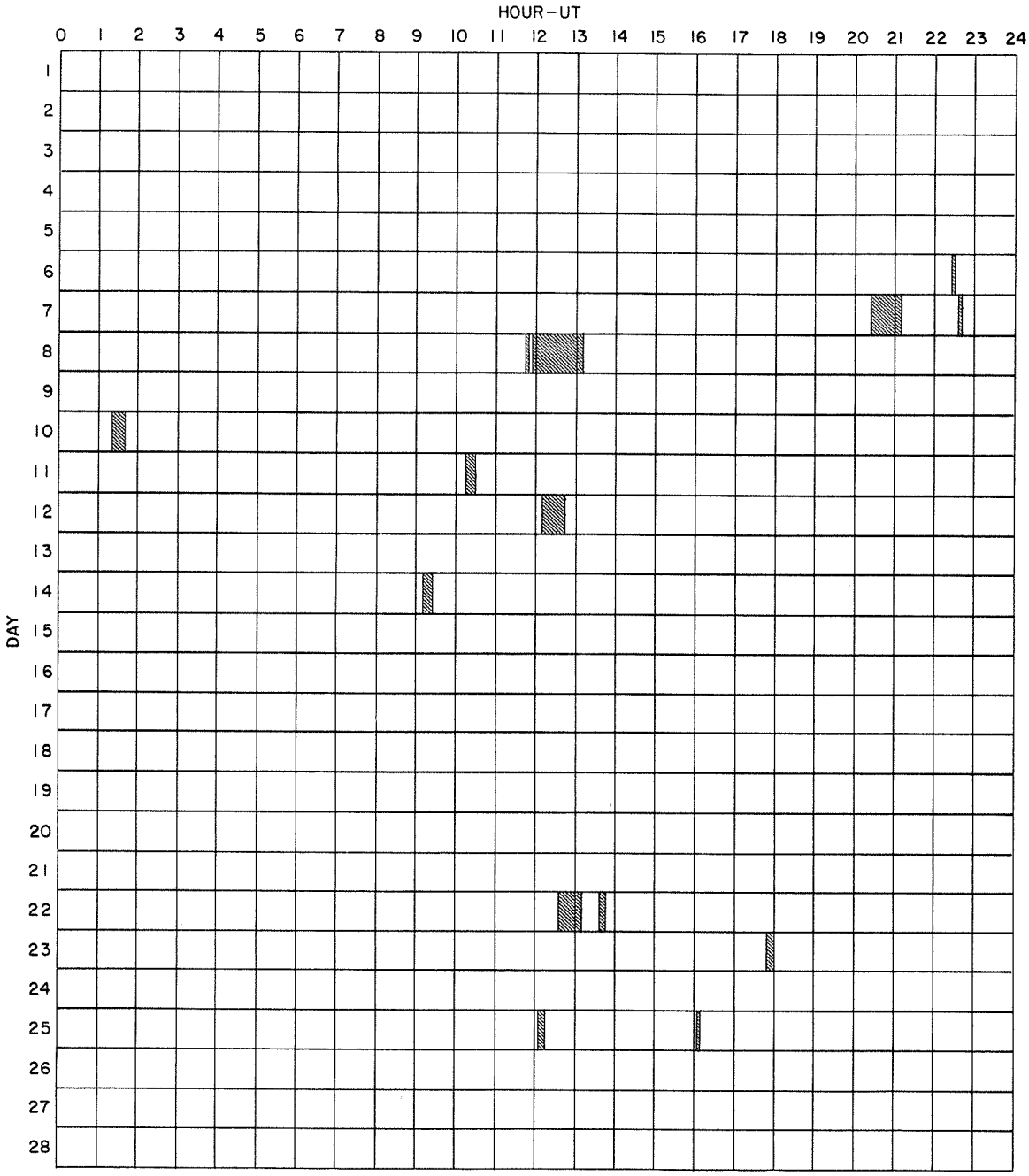
SOLAR FLARES

FEBRUARY 1966

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 FEB																		
CULG	26	2105	2116D	2108	N21	W78		8171		11D	SN		C	2105	.21				
LOCK	26	2105	2118	2110	N20	W68		8171		13	SN		C	2110	.30	.60		10	
LOCK	26	2105	2200	2118	N17	W58		8174		55	SN		C	2118	.40	.80		10	
CULG	26	2309	2400D	2320	N20	W57		8174		51D	1N		P	2320	1.03	2.25			FT
LOCK	26	2315	2339	2323	N18	W57		8174		24	SN		C	2323	.40	.80		10	
LOCK	26	2351	0002	2354	N18	W57		8174		11	SN		C	2354	.30	.60		10	
CULG	27	0015	0131	0043	N20	W49		8174		76	1B		C	0043	2.89	5.04			T
CULG	27	0043	0149	0049	N17	W54		8174		66	SB		C	0049	.21	.40			C
MANI	27	0044	0100	0047	N22	W52		8174		16	SB	2		0047	1.03	1.10			
CULG	27	0111	0154	0115	N18	W55		8174		43	SB		C	0115	.41	.80			T
CULG	27	0103	0114	0107	N20	W79		8171		11	SN		C	0107	.31				
CULG	27	0241	0333	0247	N18	W58		8174		52	SN		C	0247	.41	.90			T
CULG	27	0529	0620	0532	N22	W52		8174		51	SB		C	0532	.83	1.34			KT
KANZ	27	1345E	1404		N20	W60		8174		19D	1F								E
HUAN	27	1356E	1611D		N22	E72		8184		135D	□			1435	.31				
HUAN	27	1419E	1434D		N20	W60		8174		15D	SF		P	1425	.52	.83			E
HUAN	27	1453E	1518		N20	W63		8174		25D	SF		P	1501	.36				D
HUAN	27	1543	1548D		N20	W60		8174		5D	SF		P	1545	.42	.67			E
LOCK	27	1600E	1615	1602U	N21	W63		8174		15D	SN		C	1602	.30	.70		10	
LOCK	27	1705	1725	1715	N25	E77		8184		20	SN		C	1715	.30	.90		10	
OTTA	27	1706	1723	1709	N22	E64		8184		17	SF		C	1709	.28				JT
MCMA	27	1711E	1712D		N24	E80		8184		1D	SN		S	1712	.21				D
OTTA	27	1735	1745	1739	N23	E65		8184		10	SF		C	1739	.29				JKT
OTTA	27			1741															
LOCK	27	1735	1747	1739	N25	E77		8184		12	SN		C	1739	.20	.60		10	
LOCK	27	1745	1755	1749	N18	W67		8174		10	SN		C	1749	.50	1.20		10	
LOCK	27	1805	1830	1817	N25	E77		8184		25	SN		C	1817	.20	.60		10	
LOCK	27	1930	1950	1935	N19	W66		8174		20	SN		C	1935	.20	.50		10	
LOCK	27	1935	2000	1940	N25	E77		8184		25	SN		C	1940	.30	.90		10	
LOCK	27	2107	2115	2110	N22	W90		8171		8	SN		C	2110	.40	1.60		10	
CULG	27	2109	2112D	2110	N19	W90		8171		3D	SN		P	2110	.21				
LOCK	27	2107	2155	2115	N24	E75		8184		48	SN		C	2115	.50	1.50		10	
LOCK	27	2128	2143	2136	N20	W68		8174		15	SN		C	2136	.30	.70		10	
CULG	27	2140	2157	2152	N18	W67		8174		17	SN		P	2150	.93				T
LOCK	27	2145	2213	2153	N20	W68		8174		28	1N		C	2153	.90	2.20		20	
LOCK	27	2240	2300	2248	N24	E75		8184		20	SN		C	2248	.40	1.20		10	
CULG	27	2311	2359	2319	N20	W69		8174		48	1N		P	2319	1.65				FKT
CULG	27			2336				8174											
MANI	27	2331E	2410	2341	N23	E77		8184		39D	1N	2		2341	1.50	3.57			
CULG	28	0034	0111	0108	N22	W63		8174		37	SN		C	0108	.21	.55			KT
IKOM	28	0040	0250		N21	E70		8184		130	1N		V	0145	1.24	4.00	1.46	95	D
MANI	28	0045	0107	0051	N23	E76		8184		22	SN	2		0051	.60	1.40			
CULG	28	0326	0335	0327	N18	W63		8174		9	SB		C	0327	.21	.40			T
CULG	28	0340	0403	0346	N28	W08		8177		23	SN		C	0346	.31	.37			FT
CULG	28	0347	0445D	0401	N21	W69		8174		58D	1B		C	0401	1.44				T
MITK	28	0351	0425	0403	N17	W70		8174		34	1N		C	0403	.93				
MANI	28	0352	0513	0404	N22	W70		8174		81	2N	2		0404	2.50	5.50			
IKOM	28	0455	0720		N21	E70		8184		145	1F		V	0515	1.03	3.30		80	DH
CULG	28	0512	0519	0514	N24	W63		8174		7	SN		C	0514	.21	.50			CHT
CULG	28	0602	0613	0607	N20	W68		8174		11	SN		C	0607	.21				T
BUCA	28	0750E	0917D		N21	W69		8174		87D	1F		C	0757	.88				D
ATHN	28	0754	0821	0805	N21	W72		8174		27	SN	2		0805	.54	1.10	1.90		
KAND	28	0755E	0828		N20	W66		8174		33D	SN		C						
CATA	28	0805E	0830D	0806	N21	W70		8174		25D	SN			0806	.38			150	
ARCE	28	0815E	0825D	0820	N22	W75		8174		10D	SN		C	0820	.12	.34			D
MANI	28	0816	0848D	0822	N22	W72		8174		32D	1F	2		0822	1.40	3.10			
ARCE	28	0840E	0900D		N22	W75		8174		20D	SN		C	0900	.12	.34			D
KANZ	28	0843E	0910D		N20	W70		8174		27D	SB			0848			2.40		D
KAND	28	0851	0906		N19	W66		8174		15	SN		C						
BUCA	28	0931E	1021D	1006	N21	W70		8174		50D	1N		C	1006	1.66				E
KANZ	28	0939E	1022		N20	W70		8174		43D	1N			0941			2.00		
MONT	28	1001	1005D	1005	N24	W72		8174		4D	1N								
MONT	28	0955	1016	0956	N29	W10		8177		21	1N								
HUAN	28	1405E	1408D		N20	W80		8174		3D	SF		P	1406	.31				E
KANZ	28	1507E	1529		N20	W73		8174		22D	1N								
MCMA	28	1517	1528	1522	N20	W80		8174		11	SN		V	1522	.42				D
LOCK	28	1610	1645	1620	N19	W85		8174		35	SN		C	1620	.30	1.00		10	
LOCK	28	1650	1715	1657	N18	W85		8174		25	1N		C	1657	1.00	3.00		20	H
MCMA	28	1654	1656D		N20	W80		8174		2D	SN		S	1655	.42				D
LOCK	28	1745	1810	1755	N19	W85		8174		25	SN		C	1755	.30	1.00		10	H
CLMX	28	1833	1847	1840	N24	W87		8174		14	SN		C	1840	.50	1.35			
LOCK	28	1841E	1848	1841E	N18	W85		8174		7D	SN		C	1841	.50	1.70		10	H
LOCK	28	1930	2000	1940	N19	W85		8174		30	SN		C	1940	.50	1.70		10	H
LOCK	28	2025	2047	2032	N19	W85		8174		22	1N		C	2032	.60	2.00		20	H
CULG	28	2026E	2040	2032	N21	W86		8174		14D	1B		P	2032	.62				T
CLMX	28	2027	2043	2034	N22	W86		8174		16	SN		C	2034	.50	1.35			
LOCK	28	2050	2117	2107	N18	W85		8174		27	1N		C	2107	.80	2.70		20	H
CLMX	28	2102	2115	2111	N22	W86		8174		13	SN		C	2111	.40	1.08			
CULG	28	2103	2117D	2110	N21	W86		8174		14D	1N		P	2110	.52				T
CLMX	28	2128	2142	2134	N22	W86		8174		14	SN		C	2134	.40	1.08			
LOCK	28	2128	2144	2134	N18	W85		8174		16	SN		C	2134	.40	1.40		10	H
CLMX	28	2142	2220	2157	N22	W86		8174		38	SN		C	2157	.30	.81			
CULG	28	2148	2202D	2158	N21	W86		8174		14D	SN		P	2158	.21				T
LOCK	28	2148	2218	2153	N18	W85		8174		30	1N		C	2201	.70	2.40		20	HK
LOCK	28			2201															
MANI	28	2257E	0010	2304	N22	W85		8174		73D	1N	2		2304	1.67	5.05			
CULG	28	2259	2314	2310	N20	W88		8174		15	SN		C	2310	.41				CK
CULG	28	2303	2335	2313	N15	W80		8174		32	SB		C	2313	.52				

INTERVALS OF NO FLARE PATROL OBSERVATIONS

FEBRUARY 1966



Observatories included:

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

SOLAR RADIATION MONITORING SATELLITE

X-RAY OBSERVATIONS

ABERDEEN, SOUTH DAKOTA

MAY 1966

OUTSTANDING EVENTS					
DATE	Times of Observation	44-60A	8-12A	0-8A	0-3A
May 11	2114 2120	$> 3.5 \times 10^{-1}$	$> 3.3 \times 10^{-3}$	$> 1.9 \times 10^{-3}$	1.5×10^{-4}
12	1900 1910	1.7×10^{-1}	9.9×10^{-4}	1.7×10^{-3}	1.1×10^{-5}
28	0018 0030	---	$> 1.6 \times 10^{-2}$	$> 1.3 \times 10^{-3}$	$> 1.5 \times 10^{-4}$

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

APRIL 1966

APR 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE	SWF IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
1966 04 01	0710	0740	0718	4	S	1-								MA OK	0711
┌01	1323E	2400D		5									1	BO RO MC NOISE STORM	
└01	1330	2155D	2155	3			**	5						AN BI	1332
┌01	1632	1708	1707	1	G	1-								MC	1630
└01	1634	1710	1642	1						99				BO(NPM26-99,NBA24-83)	
┌01	1740	1830	1758	5						99				AN(GBZ19-104)	1737
														UM(NBA24-96,GBZ19-113)	
														HA(WWVB60-216,	
														WWVL20-72)	
														BO(NPM26-104,NBA24-83)	
├01	1740	1845	1755	5	SL	2								MC AN BE BO FM HU	
├01	1741	1845	1755	1							3			A18	
├01	1745	1845	1803	2					1					A8 A5	
├01	1746	1753	1749	1								26		BO(WWVH15-2.6)	
├01	1746	1834	1755	4			33	2						BO MC	
└01	1747	1830	1758	1							3			UM	
01	1921	1926	1922	1								04		BO(WWV15-0.4)	1921
┌02	0058	0123	0107	1				1						MA	0058
├02	0058	0133	0102	5	S	2								MA BO CA OK TO WS	0058
└02	0058	0150	0106	5						99				MA(NPG18-120)	0058
														HA(WWVL20-54)	
														AN(NPM26-70)	
														BO(NPM26-65,NSS21-13)	
02	0300	0600	0440	1			**	2						AN	0246
┌02	0941	1041	1018	1					2					MA	0942
└02	0950	1300	1110	1			**	2						BI	0952
┌02	1136	1242		3	S	2								JU EN	1136
├02	1137	1245	1142	5							3			UM A17 A8 A5	
└02	1137	1300	1147	1						99				UM(GBZ19-145,NBA24-39)	
┌02	1458	1530	1510	1						43				UM(GBZ19-43)	1455
├02	1500	1520	1510	1							1			UM	
└02	1502	1510	1505	5	S	1-								BO JU MC WS	1500
02	1644	2300D		4									1	BO MC NOISE STORM	1645
┌02	1657	1750	1714	2					2					A8 A5	1659
└02	1702	1710	1706	4	S	1-								FM WS	
02	1851	1857	1852	1								02		BO(WWV15-0.2)	1758
┌02	2108	2133	2120	5	SL	1-								BO HU MC	2113
├02	2113	2116	2114	1								06		BO(WWV15-0.6)	
└02	2113	2143	2117	5						99				HA(WWVB60-108,	
														WWVL20-43) MA(NPG18-99)	
														BO(NPM26-54,NBA24-17)	
┌02	2210	2237		1									1	HU	
├02	2214E	2216	2214D	1								15		BO(WWV15-1.5)	2214
├02	2214	2236		5	SL	1-								TO HU	
├02	2215	2320	2220	5						72				MA(NPG18-72)	
														BO(NPM26-50,NBA24-13)	
														HA(WWVB60-65,WWVL20-36)	
└02	2217	2218D	2217D	1								03		BO(WWV15-0.3)	
┌03	0438	0503	0447	1						60				MA(NPG18-60)	0441
└03	0439	0458	0445	1	G	1-								MA	
┌03	1304	1349		1					1					KU PU	1302
├03	1305	1335	1309	5	S	2								FM HU JU KU PU	
├03	1305	1345	1313	5										UM(NBA24-26) KU PU	
└03	1323	2400D		5									1	BO MC HU NOISE STORM	
03	1618D	1623	1619	1								02		BO(WWV15-0.2)	1619
03	2031	2035		4									1	BO MC	
03	2048	2150	2051	1						14				BO(NPM26-14)	
03	2156D	2158	2157	1								06		BO(WWV15-0.6)	
┌03	2225	2243	2226	1								05		BO(WWV15-0.5)	2223
├03	2225	2300	2231	5						99				MA(NPG18-125)	2224
														AN(GBZ19-70)	
														HA(WWVB60-151,	
														WWVL20-50) BO(NPM26-72,	
														NBA24-25,NSS21-5)	
├03	2225	2300	2229	5	S	2-								MA AN BO CA HU MC OK TO	
└03	2243	2245		4									1	BO MC	
1966 04┌04	0144	0230	0157	5						90				MA(NPG18-90)	0144
└04														HA(WWVL20-14)	
└04	0146	0235	0151	5	S	2-								MA CA OK TO WS	
┌04	0408	0445	0433	1	G	1-								MA	0408
└04	0409	0443	0437	1				1-						MA	
04	0430	0507		3	G	1								CA OK	0424
┌04	0733	0753		1						*				PU	0733
├04	0733	0756	0738	5	S	2								MA OK PU	
├04	0734	0900	0744	1							2+			ND	
└04	0745	0800	0751	1					1					MA	0740
┌04	1228	1255	1233	1					1					UM	1216
├04	1228	1255	1242	1						40				UM(GBZ19-40,NBA24-17)	
└04	1230	1300		1	S	1								KU	
┌04	1341	1344	1341D	1								02		BO(WWV15-0.2)	1338
└04	1346E	2353		5									1	BO MC HU NOISE STORM	
04	1554	1557	1554D	1								02		BO(WWV15-0.2)	1550
04	1812	1814		4									1	BO MC	
┌04	2111	2126	2112	1								02		BO(WWV15-0.2)	2107
1966 04├04	2112	2200	2127	5	SL	1+								FM AN BO HU MC OK WS	
├04	2114	2141	2126	5			14	1						BO BI MC	
├04	2125	2200		1			**	2						BI	
└04	2110	2215	2124	5						83				AN(NPM26-83)	
														HA(WWVB60-162,	

IONOSPHERIC EFFECTS OF SOLAR FLARES

APRIL 1966

APR 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
													WWVL20-47) MA(NPG18-68) BO(NPM26-26,NBA24-25, NSS21-11)	
1966 04-05	0205	0245	0210	5	S 1								CA MA OK WS	0207
-05	0207	0214	0208	1							03		BO(WWVH15-0.3)	
-05	0209	0242	0215	1					36				MA(NPG18-36)	
-05	0210	0233	0212	1				1-					MA	
-05	1652	1655		4								1	MC BO	
-05	1655	1656		4								1	MC BO	
1966 04 06	1559	1603	1600	1							03		BO(WWV15-0.3)	1559
06	2135	2225	2142	5					43				HA(WWVB60-43,WWVL20-14) BO(NPM26-29)	2135
06	2321	2401	2328	5					32				HA(WWVB60-32,WWVL20-14) MA(NPG18-32) AN(NPM26-40)	2320
1966 04-07	1642	1700	1650	5	S 1-								HU AN BE FM MC WS	1635
-07	1643	1656	1653	5					42				UM(GBZ19-43,NBA24-17) HA(WWVL20-25)	
-07	1644	1645		5								1	MC BO RO	
-07	1644	1701	1648	5		03	1						BO RO MC	
-07	1646	1703	1650	1						1			UM	
1966 04-08	1621	1627	1623	1							03		BO(WWV15-0.3)	1622
-08	1622	1654	1636	5	SL 1+								BE BO HU MC	
-08	1623	1650	1629	1						2			UM	
-08	1623	1720	1635	1					25				UM(GBZ19-25,NBA24-22)	
-08	1809	1849	1816	4		14	1						BO MC	
-08	1811	1825	1812	1							14		BO(WWV15-1.4)	1805
-08	1811	1900	1818	1					25				HA(WWVL20-25)	
-08	1812	1828	1815	5	S 1-								MC HU WS	
-08	1921	1927	1924	1							02		BO(WWV15-0.2)	1917
-08	1921	2000	1931	1					14				HA(WWVL20-14)	
08	2242	2308	2250	1					24				MA(NPG18-24)	2242
1966 04-09	0023	0035	0025	1							09		BO(WWVH15-0.9)	0023
-09	0025	0059	0028	5	SL 1+								MA TO	
-09	0025	0103	0031	5					55				MA(NPG18-55) HA(WWVL20-14)	
09	1658E	1705	1658D	1							04		BO(WWV15-0.4)	1655
1966 04-10	1220	1305	1228	1						2			UM	1225
-10	1222	1228	1225	1							02		BO(WWV15-0.2)	
-10	1222	1300	1232	5					55				UM(GBZ19-55,NBA24-21) LO(GBZ19-46)	
-10	1222	1300		1	SL 1								JU	
10	1352	1354		5								1	BO RO MC	1345
10	1405	1406		4								1	MC BO	
10	1445	1446		4								1	MC BO	
10	1451	1452		5								1	MC BO HU	
10	1452	1458	1454	1							03		BO(WWV15-0.3)	
10	1514	1516		5								1	BO MC HU	
10	1519	1520		4								1	MC HU	
-10	1545	1600	1552	1						1			UM	
-10	1545	1620	1549	5	S 1								BE FM JU MC	
-10	1545	1645	1555	5					43				LO(GBZ19-43) UM(GBZ19-39,NBA24-17)	
10	1926	1928		5								1	BO HA MC	
10	2035	2036		4								1	BO MC	
10	2046	2050		5								1	BO HA MC	
-10	2341	2402	2353	1			1-						MA	2347
-10	2341	2417	2350	5					99				MA(NPG18-190) HA(WWVL20-76) AN(NPM26-40) BO(NPM26-50)	
-10	2348	0020	2357	5	S 2								OK WS	
1966 04-11	0116	0153	0121	5	S 1								MA AN CA OK	0120
-11	0116	0204	0125	5					99				MA(NPG18-180) BO(NPM26-65) AN(NPM26-50)	
-11	0117	0139	0125	1			1						MA	
-11	0658	0705	0700	1	S 1-								OK	
-11	0659			1				1					RO	
-11	0840	0915	0847	1					50				LO(GBZ19-50)	
-11	0850	0930	0858	1					36				LO(GBZ19-36)	0851
-11	0957	1100	1013	1						3			UM ND	0948
-11	1000	1115	1013	5					99				UM(GBZ19-105) LO(GBZ19-216)	
-11	1004	1022	1008	5		23	1+						ND RO	
1966 04-11	1059	1132	1110	5					21				LO(GBZ19-65) UM(GBZ19-21,NBA24-4)	1105E
-11	1100	1115	1108	1						2			UM	1105E
-11	1225	1320	1256	5						3+			UM HU MC	1225
-11	1230	1400	1259	1					99				LO(GBZ19-216) UM(GBZ19-135)	1230
-11	1233	1325	1258	5	G 2								MC BE DA EN FM HU TR	
-11	1237	1320	1300	4		51	2						RO MC	
-11	1240	1332	1255	5				2					LO HU MC RO	
11	1436D	1444	1438	1							06		BO(WWV15-0.6)	1435

IONOSPHERIC EFFECTS OF SOLAR FLARES

APRIL 1966

APR 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
11	1815	1840	1822	1					50				LO(GBZ19-50)	
11	1951	1955	1952	1							02		BO(WWV15-0.2)	
11	2008	2012	2009	1							03		BO(WWV15-0.3)	
11	2339	2354	2343	1					11				MA(NPG18-11)	2337
11	2340	0135	0030	1	G 2+								OK	
1966 04 12	0346	0411	0359	1					20				MA(NPG18-20)	0351
12	1004	1031		1			1						ND	
12	1531	1533		5								2	BO MC HU	1515
12	1623	1700	1630	5					58				LO(GBZ19-58, UM(GBZ19-35,NBA24-30) BO(NBA24-29,NSS21-7)	1621
12	1625	1703	1630	4	SL 1								MC HU	
12	1625	1710	1650	1						2+			UM	
12	1626	1628	1627	1							03		BO(WWV15-0.3)	
12	1629	1637	1630D	1							09		BO(WWV15-0.9)	
12	1710	1755	1722	5	S 2								MC AN BE BO FM GS HU TR WS	1715
12	1714	1815	1723	5					99				UM(GBZ19-148,NBA24-95) MA(NPG18-75) LO(GBZ19-290) BO(NBA24-94,CYZ80-108, NAA17-39,NPG18-18, NSS21-33) AN(GBZ19-160) HA(WWVB60-173)	
12	1716	1745	1725	1						2+			UM	
12	1718	1815	1725	1				2+					LO	
12	1718	1727D	1718D	1							48		BO(WWV15-4.8)	
12	1719	1745	1720	5		63	3						BO HA MC	
12	1720	1740		3		**	1						AN BI	1720
12	2341	2407	2347	1					22				MA(NPG18-22)	2337
1966 04 13	0615	0627	0619	1			1-						MA	0615
13	0616	0631	0620	4	S 1								MA OK	
13	0616	0650	0622	1					31				MA(NPG18-31)	
13	0703	0800	0710	5					99				LO(GBZ19-216) MA(NPG18-34)	0707
13	0705	0719	0713	1			1-						MA	
13	0706	0727	0709	4	S 1								MA OK	
13	0733	0747	0738	1				1+					LO	0735
13	1015	1108	1025	1						2-			UM	
13	1020	1110	1028	1					65				LO(GBZ19-65) UM(GBZ19-42)	
13	1147	1220	1151	1					21				UM(GBZ19-21)	1148
13	1440	1530	1502	4	G 1-								MC WS	
1966 04 15	1000	1140	1020	5					99				LO(GBZ19-115) UM(GBZ19-85)	0956
15	1003	1115	1025	1						3+			UM	
15	1003	1133D		3	SL 1+								JU NE	
15	1013	1047	1025	5				2					LO A17	
15	1015	1045	1025	4	S 2								BN EN SO	
1966 04 16	1831	1834	1832	1							02		BO(WWV15-0.2)	1831
1966 04 17	0844	1013	0859	5	S 2								JU OK	0843
17	0942	1005	0947	1				1+					LO	
17	1750	1757	1753	1							05		BO(WWV15-0.5)	1748
17	2030	2037	2035	1							03		BO(WWV15-0.3)	2021
1966 04 18	0459	0538	0506	1					17				MA(NPG18-17)	0458
18	0500	0535	0504	4	S 1+								MA OK	
18	0752	0802	0758	1				1+					LO	
1966 04 22	0600	0640	0603	4	S 1								OK MA	
1966 04 23	0441	0453	0444	4	G 1-								MA OK	0440
1966 04 24	1343	1345		4								1	MC RO	1341
24	1345	1346		4								1	MC RO	
24	1348	1350		4								1	MC RO	
24	1356	1358		4								1	MC RO	
24	1410	1413	1411	1							10		BO(WWV15-1.0)	1410
24	1410	1430	1420	5	SL 1								BO BE DA HU JU MC TR WS	
24	1412	1430	1420	1						1-			UM	
24	1412	1500	1422	1					30				UM(NBA24-30)	
24	1647	1650		4								1	BO MC	1647
1966 04 24	1650	1652		4								1	BO MC	
24	1738	1740		4								1	BO MC	1738
24	1740	1742		4								1	BO MC	
24	1817	1832		4								1	MC BO SERIES OF 5 BURSTS	
24	1853	1903	1854	1							04		BO(WWV15-0.4)	1852
24	2130	2250	2135	1					43				HA(WWVB60-43,WWVL20-22)	2127
24	2143	2218	2200	1					14				MA(NPG18-14)	
1966 04 25	0433	0447	0437	1	G 1-								MA	0431
25	0437	0500	0448	1					30				MA(NPG18-30)	
1966 04 26	1834	1835		4								1	MC BO	
26	1838	1839		4								1	MC BO	
1966 04 28	1404	1415	1408	1					43				AN(GBZ19-43)	1403

** number in SCNA importance column is in db.
GS = Goddard Space Flight Center. BN = Brentwood, England (formerly CW***). SO = Somerton, England (formerly CW**).
BA = Barbadoes (formerly C*).

RIOMETER EVENTS

APRIL 1966

GREAT WHALE RIVER

30 Mc/s

APRIL 1966	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS
01	0505	0531	0518	3	1
01	1239		1432		
02		0815		33	13
03	0008	1034	0227	8	4
03	1300		1557		
04		1140		23	4
05	0445	1124	0653	8	3
05	2143				
06		1720	0536	18	15
06	2130				
07		1054	0146	40	11
07	1904				
08		1110	0416	75	11
09	0424		1049		
10		0024		5	8
10	0305	0940	0638	10	1
10	1250		1935		
11		0236		20	3
12	0738	2314	1720	17	3
13	0206		1505		
14		2149		21	14
15	0016	1040	0617	9	2
17	0406	1344	0716	8	3
19	0653	0922	0715	9	1
20	0655	2216	1420	12	11
21	0114	0400	0336	5	3
21	2358				
22		2201	1725	25	13
23	0319	1042	0357	46	5
23	1300	1930	1731	5	2
24	0122	0658	0334	8	3
24	0951	1436	1123	24	2
24	1956		2055		
25		0130		8	1
25	0840	2100	1017	7	1
26	0606	1020	0650	3	1
28	0353	1055	0959	5	3
28	1902	2030	1938	3	1
29	0220	2306	0539	6	7
30	0220	2314	1853	15	11

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

MAY 1966

DATE	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22}Wm^{-2}(c/s)^{-1}$		INT.	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
1	2800	OTTA	24	1600		40	1.8			
4	2800	OTTA	4	0151.5	0153	4	66.0	12.0		
9	108	BOUL	48	2140.6	2142.7	5.7			2	
11	2800	OTTA	21	2050	2155	210	5.6	2.8		
	1415	SGMR	20	2048	2057.1	23	8.1	1.8		
	606	SGMR	20	2049.6	2057.4	20	2.2	0.6		
	10700	PENN		2055.3	U	9	U	U		
	2800	OTTA	45	2056	2058.2	10	25.0	10.0		
				2056	2058.2	4	25.0			
				2100	2101	6	14.0			
12	328	PENN	5	1637.7	1641	8	56.0	28.0		
14	2800	OTTA	1	2050.5	2050.7	.3	1.0	0.5		
	2800	OTTA	1	2107	2108.6	4	1.4	0.7		
16	108	BOUL	6	1239.8	1240.5	.9			3	
	8800	SGMR	3	2047	2047.9	2	16.2	4.0		
	4995	SGMR	3	2046.5	2047.8	3.5	13.0	3.2		
	2800	OTTA	1	2046.5	2047.7	2.5	2.2	1.1		
	2695	SGMR	1	2046	2047.8	3	1.8	0.5		
17	8800	SGMR	40	1023	1029	56	10.0	U		
	4995	SGMR	40	1023	1029	56	6.0	U		
	2695	SGMR	40	1023	1038	56	4.0	U		
	1415	SGMR	40	1024	1028.7	55	2.5	U		
	606	SGMR	40	1024	1028.8	81	1.5	U		
	2800	OTTA	20	1945	2020	85	2.0	1.0		
	1415	SGMR	45	2055.7	2056.3	1.1	18.0	9.0		
	606	SGMR	45	2055.8	2056.9	1.3	10.9	4.6		
	1415	SGMR	41	2146.4	2146.8	.7	19.4	7.2		
	606	SGMR	41	2146.1	2146.8	.9	8.2	1.2		
19	2800	OTTA	20	1500	1540	120	2.6	1.3		
	2800	OTTA	20	1940	2020	130	2.4	1.2		
	2800	OTTA	1	2310	2313	5	3.0	1.5		
	2800	OTTA	29	2315		30	2.0	1.0		
20	2800	OTTA	20	1605	1640	65	1.6	0.8		
	2800	OTTA	21	2240	2315	120	3.8	2.4		
	2800	OTTA	1	2245	2245.7	1	1.4	0.7		
21	2800	OTTA	20	1345	1405	75	2.6	1.3		
	606	SGMR	41	1356.3	1356.6	1.3	12.0	3.7		
	328	PENN	5	1713.3	1714.6	3.9	89.0	52.0		
	2800	OTTA	1	1940.7	1941.3	2.3	2.2	1.1		
22	2800	OTTA	20	1845		145	3.0	1.5		
23	108	BOUL	44	1143 E	1230	160 D			1	
24	8800	SGMR	1	1415.5	1416	4.5	6.2	1.5		
	4995	SGMR	3	1415.4	1416	4.6	9.8	2.5		
	2800	OTTA	2	1415	1416.5	5	4.4	2.2		
	2700	PENN	3	1415.3	1416	3.4	19.0	10.0		
	2695	SGMR	45	1415	1416.2	5	4.7	1.0		
	1415	SGMR	45	1415.4	1416.3	5	14.5	4.0		
	960	PENN	1	1415.7	1416.2	2.3	7.0	4.0		
	606	SGMR	45	1415.4	1416.8	8.8	40.0	8.0		
	108	BOUL	48	1413.9	1414	5			3	
	2800	OTTA	29	1420		15	1.2	0.6		
	2800	OTTA	20	1500	1630	130	2.8	1.4		
	2800	OTTA	21	2140	2205	40	2.0	1.0		
	2800	OTTA	1	2156.5	2157.7	2	1.6	0.8		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

MAY 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
25	2800	OTTA	20	1058	1115	100	5.0	2.5		
	10700	PENN	3	1313.5	1313.8	1.2	9.0	5.0		
	8800	SGMR	3	1312	1313.6	4	30.1	7.2		
	4995	SGMR	3	1312	1313.6	4	20.7	5.0		
	2800	OTTA	1	1313	1313.8	1.5	4.2	2.1		
	2700	PENN	1	1312.9	1314.1	2.8	6.0	3.0		
	2695	SGMR	3	1312	1313.9	6	7.5	1.8		
	1415	SGMR	1	1312	1313.7	5	5.3	1.2		
	606	SGMR	1	1312.7	1314	4.3	5.6	1.3		
	606	SGMR	40	1317	1323.5	38	5.6	U		
	2800	OTTA	20	1505	1509	25	3.6	1.8		
	10700	PENN	3	1535.4	1535.7	1.3	20.0	10.0		
	8800	SGMR	3	1532.4	1535.5	15	32.0	8.0		
	4995	SGMR	3	1533	1535.5	13	77.3	17.0		
	2800	OTTA	4	1533	1535.5	6	76.0	14.0		
	2700	PENN	3	1533.2	1535.7	8.1	66.0	33.0		
	2695	SGMR	3	1533	1535.5	13	68.8	15.0		
	1415	SGMR	3	1533.4	1535.5	5.6	20.5	4.0		
	960	PENN	3	1534	1535.8	3	20.0	10.0		
	606	SGMR	3	1533.2	1535.5	11.8	229.0	40.0		
	108	BOUL	48	1530	1535	14			3	
	8800	SGMR	1	1602.5	1603.5	3.5	3.2	.8		
	4995	SGMR	1	1602.5	1603.5	3.5	3.0	.8		
	2800	OTTA	1	1602	1603.2	3	2.8	1.4		
	2695	SGMR	1	1602.5	1603.2	3.7	2.7	.7		
	2800	OTTA	20	1747	1750	70	1.5	1.2		
	2800	OTTA	1	2203	2207	7	1.5	0.8		
	2800	OTTA	1	2352.5	2353	1	4.0	2.0		
	606	SGMR	45	2351.4	2351.7	.7	116.0	25.0		
	108	BOUL	6	2350.5	2351	1.7			3	
26	1415	SGMR	45	0958.5	0958.9	11.5	6.5	.5		
	606	SGMR	45	0958.5	0958.8	13	103.0	20.0		
	4995	SGMR	1	1615	1615.5	1.7	3.6	.5		
	2800	OTTA	2	1614.8	1615.5	3.5	6.4	3.2		
	2695	SGMR	1	1614	1615.5	3.4	7.1	1.0		
	1415	SGMR	1	1615.3	1616	2.2	2.7	.5		
	2800	OTTA	20	2034	2036	32	2.0	1.0		
	2800	OTTA	20	2203	2207	10	2.0	1.0		
	2800	OTTA	20	2348	2351	30	2.0	1.0		
27	4995	SGMR	1	1408	1409.2	2	4.6	2.0		
	2695	SGMR	1	1408	1409.4	2	1.0	.4		
	10700	PENN	3	1412.3	1413.4	3.4	33.0	17.0		
	8800	SGMR	45	1412	1413.5	5	42.5	10.0		
	4995	SGMR	45	1412	1413.8	6	29.6	6.0		
	2800	OTTA	4	1413	1414	3	18.0	6.0		
	2700	PENN	3	1412.3	1413.5	3.8	17.0	8.0		
	2695	SGMR	3	1412	1413.8	4	18.1	4.5		
28	2800	OTTA	21	1555	1700	180	12.0	6.0		
	10700	PENN	20	1610.3	1612	35.2	20.0	10.0		
	2800	OTTA	45	1610	1622	40	52.0	20.0		
				1610	1622	14	52.0			
				1624	1626	7	28.0			
				1631	1632	4	18.0			
	2700	PENN	3	1609.2	1621.4	36.9	48.0	12.0		
	1415	SGMR	28	1610	1620	10	9.6	2.0		
	1415	SGMR	45	1620	1621.6	15.5	21.6	4.0		
	606	SGMR	28	1612	1618.5	6.5	3.0	.7		
	606	SGMR	45	1618.5	1623.3	17	8.0	1.5		
	1415	SGMR	29	1635.5	1635.5	450 D	9.6	2.4U		
	606	SGMR	30	1635.5	1635.5	450 D	3.0	.7U		
	606	SGMR	40	1635.5	1641.5	15	3.0	U		
	108	BOUL	43	2103	2215	174			2	
	2800	OTTA	24	2230		20	2.0			
29	2800	OTTA	1	1445	1445.5	5	2.0	0.8		

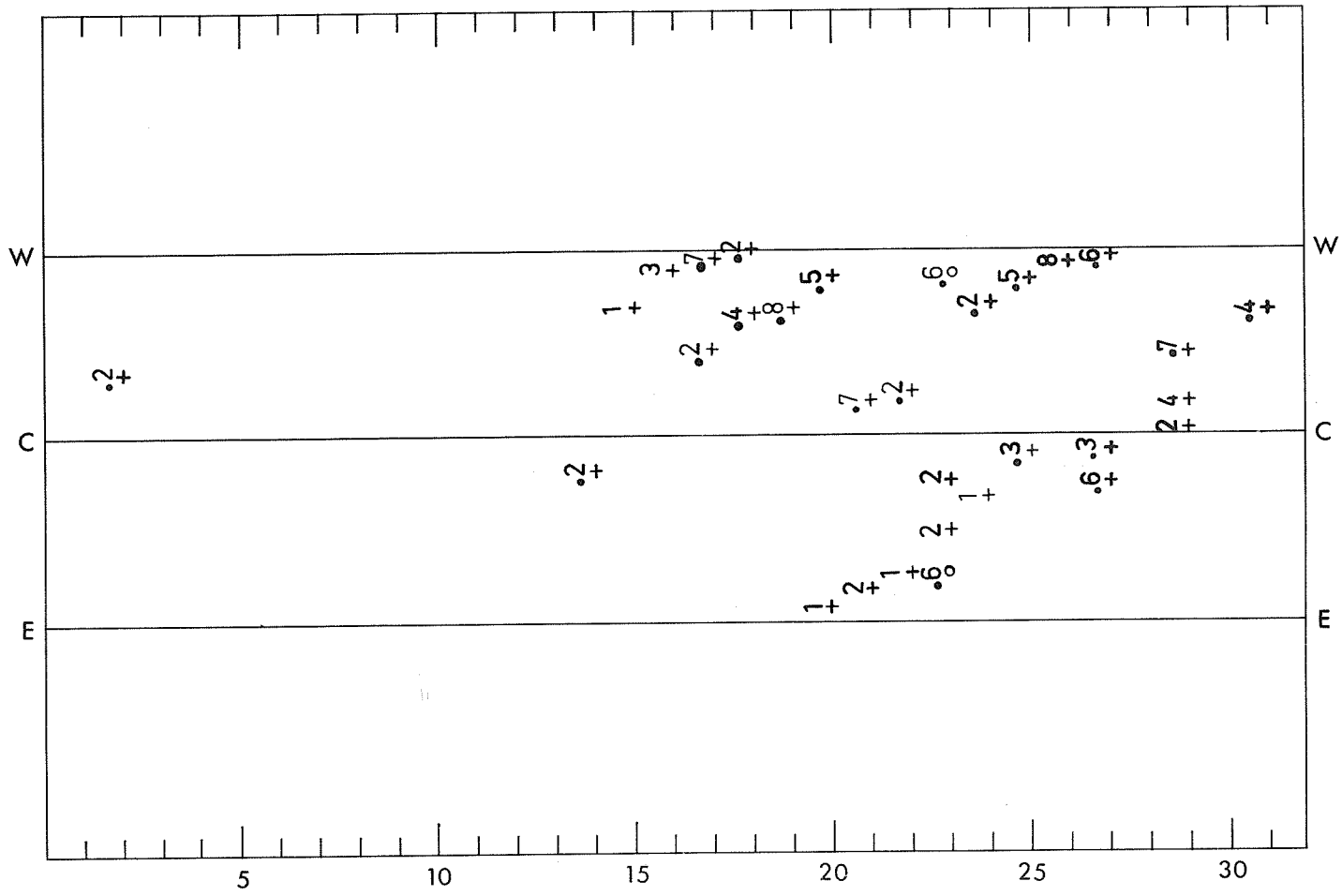
No data are available from Haleakala for April and May because of instrumental failure.

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

MAY 1966

NANÇAY

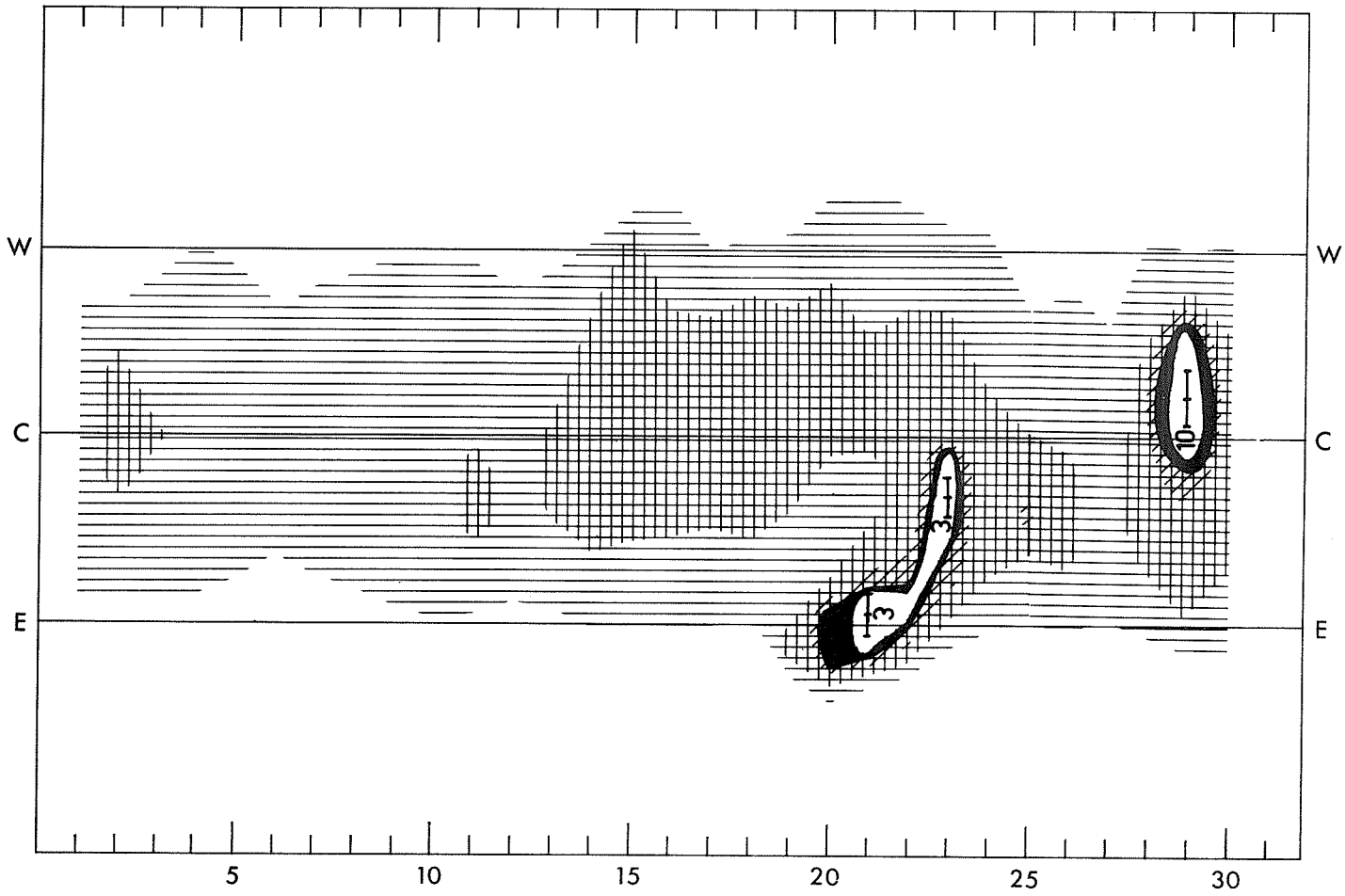
408 Mc/s



MAY 1966

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

NANÇAY MAY 1966 169 Mc/s



MAY 1966

PAI

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

MAY 1966

UNIVERSITY OF COLORADO

7.6-41 Mc/s

Date May 1966	Bursts				Date May 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
2	IV	1216-1248	1-	19-41	16	III	1203:30-1204:30	2	19-41
	III	1217:30-1221:45	2	12-41		III	1231:30-1232:15	1	28-41
	II	1223:30-1237:30	3	12-41		III	1239:45-1240:45	3	21-41
	IV	1300-1317	1-	25-41		III	1459:30-1459:45	1	29-41
	II	1306-1317	2	25-41		III	1501:45-1502	1	30-38
	no observ.	1950-2036				III	1503:15-1503:45	1	25-41
3	no observ.	1956-2049				III	1756:15-1757	2	21-41
4	III	0017-0017:45	1+	21-40		III	1806:45-1807:15	1	21-39
	III	g 0152-0154	2+	16-29		no observ.	2000-2020		
5	no observ.	1240-2200			17	III	1229:30-1230	1-	26-36
6	III	0029:30-0029:45	1	26-41		III	1413:15-1414	2+	16-41
	III	1918:15-1922	1	12-41		no observ.	1424-1439		
	no observ.	2030-0230				III	1520-1520:30	1	31-39
8	continuum	b1058-1259	1-	24-41		no observ.	1542-1558		
	III	1829:30-1831:15	2	7.6-41		III	1642:15-1642:45	3	17-41
	III	2129:30-2130	1+	16-41		III	1643:30-1644:30	3	7.6-41
9	continuum	b1054-1235	1-	24-41		III	1644:30-1645	1	16-31
	III	1445-1446:15	3	11-41		III	1733-1733:15	1-	22-41
	III	1707:15-1707:45	1+	25-41		III	1800:15-1801	1+	20-38
	III	2031:30-2033:15	2+	7.6-41		III	1857:30-1858:30	2	7.6-41
	III	2135-2140	3	26-41		III	1905:30-1907	2+	7.6-41
	II	2145-2155	3	26-41		III	1907:45-1908:30	1+	7.6-38
	III	2215:30-2218	2	12-41		III	1930:45-1932	2	7.6-41
11	III	2057-2102	2+	7.6-41		III	2056:15-2057:45	2+	7.6-41
	IV	2113-2148	1-	25-41		III	2144:30-2145:15	1+	22-41
	II	2118:30-2130	3	22-41		III	2146:45-2147:30	2+	13-41
13	III	1314-1314:30	1	26-41	18	III	0012:30-0013:45	2+	14-41
	III	1314:45-1316	2+	23-41		III	0034:30-0035:45	2+	16-41
	III	1316-1317:30	2+	23-41		III	0035:30-0036:30	2+	17-41
	III	1547:30-1548:30	1+	11-36		III	1540:15-1540:45	1	21-38
	III	2340-2340:30	1	24-41		III	1604:30-1605:15	1+	16-41
15	III	1321:30-1322	1+	24-41		III	1708-1709	2+	7.6-41
	III	1707-1707:30	1-	24-41		III	1730:45-1731	1-	26-41
	III	1752-1753	2	7.6-41	19	III	1716-1716:30	1	23-41
	III	1753-1754:15	2+	7.6-41		III	2222:45-2223:15	2	16-41
	III	1754:15-1754:45	1	24-41		no observ.	2336-2353		
	III	1858:45-1859	1-	24-41	20	III	0059:45-0100:15	2	21-41
	III	1901:30-1903:15	3	7.6-41		III	0100:30-0101	2	22-41
	III	1904:45-1906:15	3	7.6-41		III	0101:30-0101:45	2	22-41
	III	2054:45-2055	1-	25-38		III	0103:30-0105	2	16-41
	III	2106:15-2106:30	1	24-41		III	0132-0132:15	1-	23-33
	III	2114-2114:30	1	23-37		III	1249:30-1250	1	22-41
	III	2133:30-2133:45	1+	24-41		III	1526:45-1527:15	1	31-41
	III	2134-2134:45	2+	7.6-41		III	1551:30-1552:15	1+	24-41
	III	2324-2324:30	1+	22-41		III	2152-2152:30	1-	29-38
	III	2328:30-2329:30	2	13-41		III	2228:15-2228:30	1	26-37
	III	2331:30-2332	1+	16-41	21	III	0006:45-0007:15	1	28-41
	III	2354:15-2354:45	2+	12-41		III	0113:15-0113:45	2	22-41
16	III	0053-0054	2+	15-41		III	1257-1257:15	1	24-41
	III	0054:45-0055:15	1	25-38		III	1258:30-1258:45	1	24-41

g = unusual structure

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

MAY 1966

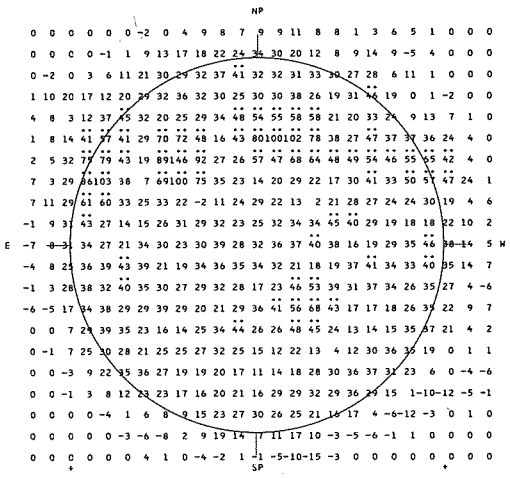
UNIVERSITY OF COLORADO

7.6-41 Mc/s

Date May 1966	Bursts				Date May 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
21	III	1315:45-1316	1-	25-38	26	III	1436:15-1437	1	23-39
22	III	2155:30-2156	1+	22-41		III	1828-1828:15	1+	23-41
23	III	0156:30-0157:45	1+	16-31		III	1852:15-1854:45	3	7.6-41
	continuum	b1145-1415	1	22-41		III	1901:30-1903:45	3	7.6-41
24	III	1310:45-1311:15	1-	23-41		no observ.	1920-2005		
	III	1312:45-1313	1-	28-36		III	2110-2110:30	1	25-37
	III	1316:30-1316:45	1-	25-38	27	III	0023:15-0023:30	1	25-41
	III	1352:15-1353:45	1	25-41		III	0128-0129:30	2	14-41
	III	1356:15-1357:15	3	16-41		III	1256-1256:30	1	24-38
	III	1358-1359:30	3	12-41		III	1303:45-1304:15	1	24-41
	III	1414:15-1420:30	3	11-41		III	1312-1315	2+	10-41
	III	1423-1423:15	1-	23-38		III	1318:15-1318:30	1-	24-32
	IV	1443-1512	1	22-41		III	1412-1412:30	1	24-31
	no observ.	1600-1720				III	1443:45-1444	1+	22-41
	III	1741:30-1744:15	2	7.6-41		III	1449:30-1450	1-	22-41
	III	1747-1749:15	3	7.6-41		III	1450:45-1451:15	1-	23-41
	III	1750:15-1750:30	2	32-41		III	1554:45-1555	1+	30-40
	III	1750:45-1751:45	2	7.6-41		continuum	1616:30-1623:30	2+	22-41
	III	1755:45-1756	1	7.6-41		continuum	1643:30-1658:30	2+	22-41
	III	1804:45-1805	1-	25-41		III	1709:45-1710:15	1	23-33
	III	1816:30-1817:15	2	19-41		III	2101-2102:15	2+	7.6-41
	III	1825:30-1825:45	1	25-35	28	III	1501-1501:45	1+	26-41
	III	1906:30-1908:30	1-	28-41		III	1505:15-1505:45	1+	22-41
	III	1942:15-1943:15	1+	25-41		III	1626-1628:45	3	7.6-41
	III	1948-1948:45	1	27-41		IV	1628-1855	2	21-41
	III	1949:30-1949:45	1-	29-41		III	1633:15-1634	2	9-41
	III	2022:15-2022:45	1	16-41		continuum	2220-a0155	2	22-41
	III	2116-2116:30	1+	24-41	29	III	1718:30-1718:45	1	23-32
	III	2119:30-2120	1+	24-41		III	1802:30-1803	1+	23-38
25	II	0154:30-0201:15	1	21-41		III	1812-1812:15	1-	26-34
	III	1313-1316:45	2+	12-41		III	2102:30-2103:15	1	24-34
	III	1316:30-1317:30	2	20-41		III	2230:15-2232:15	2	23-41
	III	1437-1437:30	1+	21-41		III	2232:15-2233:15	1+	19-41
	III	1526:15-1526:45	1+	25-41		III	2236:45-2237	1	26-34
	IV	1531:15-1604	1	25-41		III	2339-2339:15	1	25-38
	III	1531:15-1539:30	3	7.6-41	30	III	2305:30-2306	2+	12-41
	II	1541:30-1557:30	3	25-41	31	III	0059:45-0100	1	25-38
	III	1653:45-1655	3	21-41		III	1723:15-1723:45	1-	25-34
	III	1838-1839:30	2+	7.6-41		III	2056:45-2057:15	1	22-36
	III	1852:45-1855	1+	7.6-41					
	III	2147:30-2148:15	1+	28-41					
	III	2155:15-2156:15	2	21-41					
	III	2351:30-2353:45	3	12-41					
26	III	1349:45-1350:30	1+	24-41					
	III	1418:30-1419:30	2	11-36					

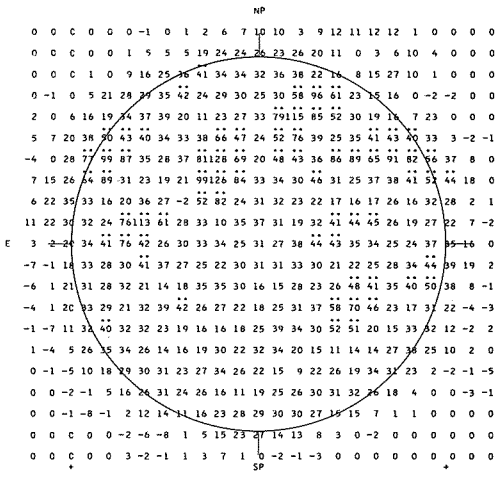
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD — MAY 1966 — **9.1 cm**



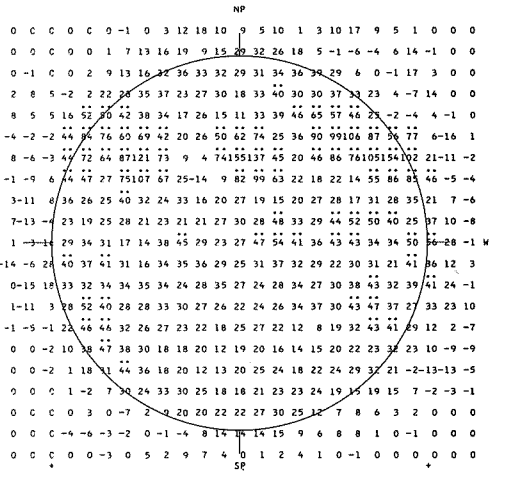
9.1 CM SPECTROHELIOGRAM

STANFORD, 01 MAY 1966 20-21 HRS UT. S = 90(NRC) BRIGHTNESS UNIT = 1000 K



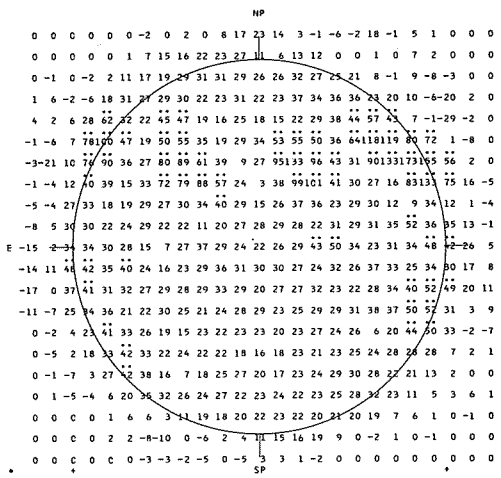
9.1 CM SPECTROHELIOGRAM

STANFORD, 02 MAY 1966 20-21 HOURS UT. S = 93 BRIGHTNESS UNIT = 1000 K



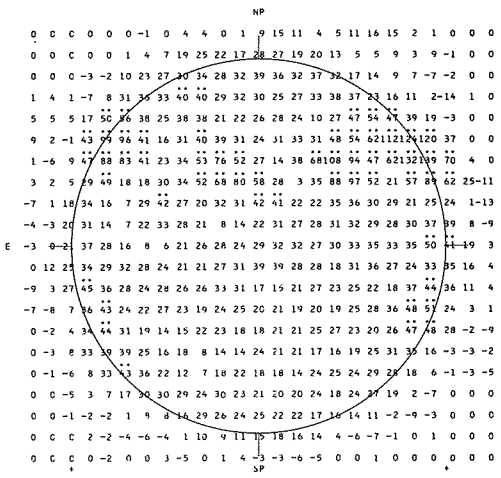
9.1 CM SPECTROHELIOGRAM

STANFORD, 03 MAY 1966 20-21 HOURS UT. S = 92 BRIGHTNESS UNIT = 1000 K



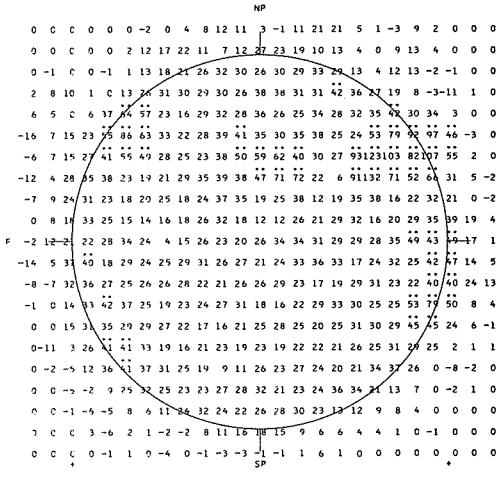
9.1 CM SPECTROHELIOGRAM

STANFORD, 04 MAY 1966 20-21 HOURS UT. S = 91 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 05 MAY 1966 20-21 HOURS UT. S = 87 BRIGHTNESS UNIT = 1000 K

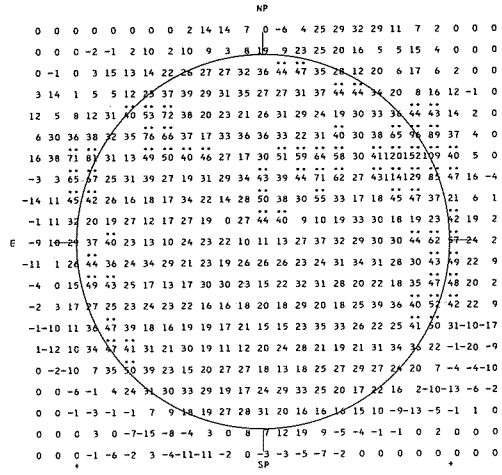


9.1 CM SPECTROHELIOGRAM

STANFORD, 06 MAY 1966 20-21 HOURS UT. S = 86 BRIGHTNESS UNIT = 1000 K

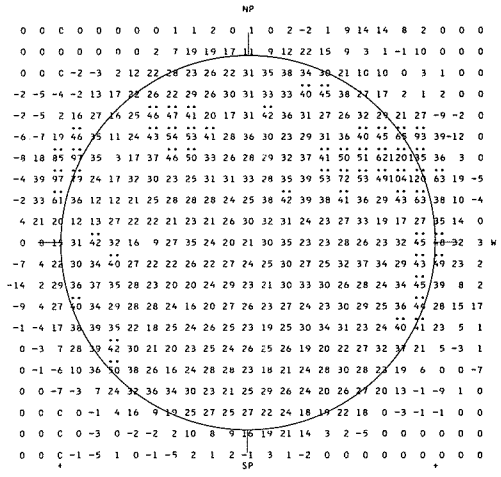
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD — **MAY 1966** — **9.1 cm**



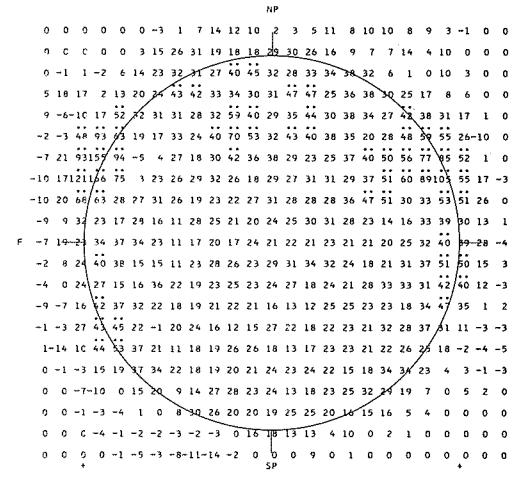
9.1 CM SPECTROHELIOGRAM

STANFORD, 07 MAY 1966 20-21 HOURS UT. S = 88 BRIGHTNESS UNIT = 1000 K



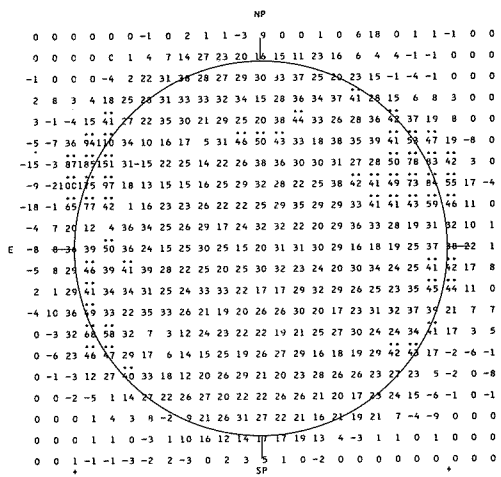
9.1 CM SPECTROHELIOGRAM

STANFORD, 08 MAY 1966 20-21 HOURS UT. S = 86 BRIGHTNESS UNIT = 1000 K



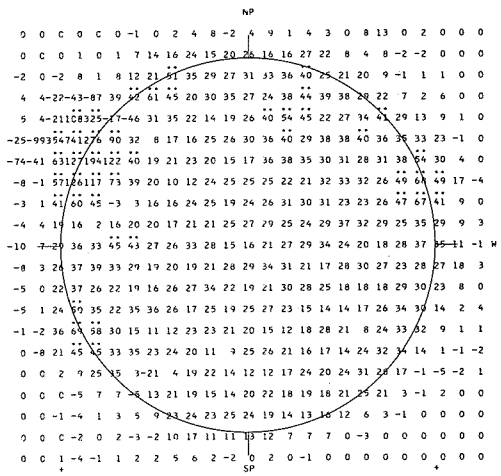
9.1 CM SPECTROHELIOGRAM

STANFORD, 09 MAY 1966 20-21 HOURS UT. S = 86 BRIGHTNESS UNIT = 1000 K



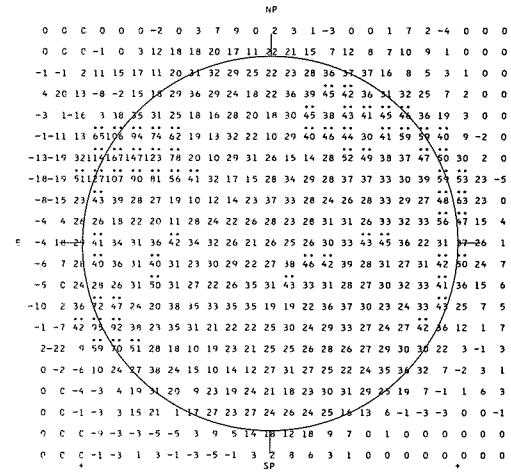
9.1 CM SPECTROHELIOGRAM

STANFORD, 10 MAY 1966 20-21 HOURS UT. S = 85 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 11 MAY 1966 20-21 HOURS UT. S = 87 BRIGHTNESS UNIT = 1000 K

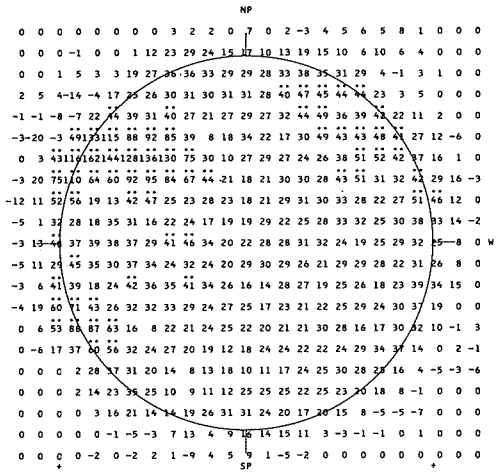


9.1 CM SPECTROHELIOGRAM

STANFORD, 12 MAY 1966 20-21 HOURS UT. S = 91 BRIGHTNESS UNIT = 1000

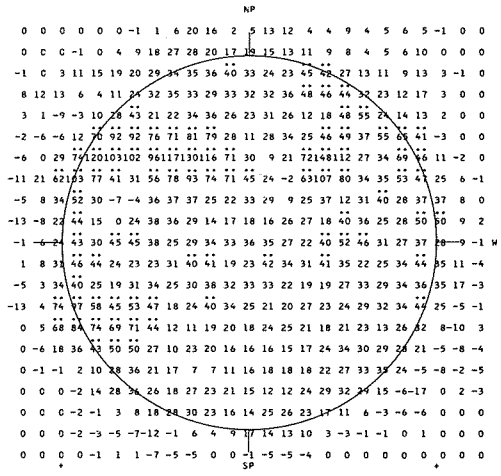
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD — **MAY 1966** — **9.1 cm**



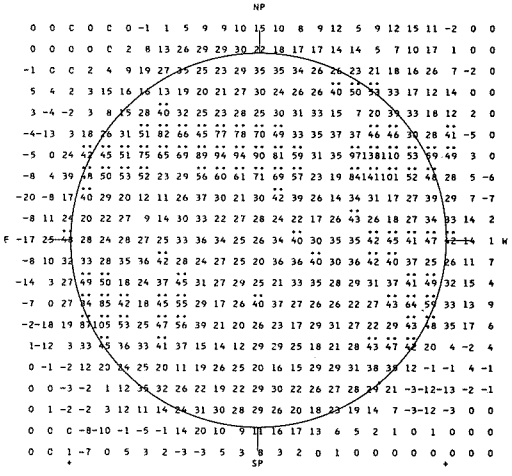
9.1 CM SPECTROHELIOGRAM

STANFORD, 13 MAY 1966 20-21 HOURS UT. S = 91 BRIGHTNESS UNIT = 1000 K



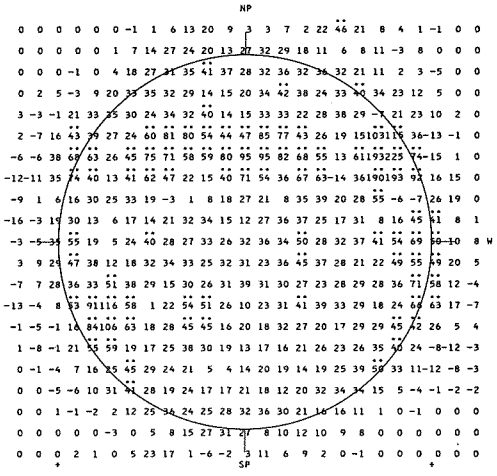
9.1 CM SPECTROHELIOGRAM

STANFORD, 14 MAY 1966 20-21 HOURS UT. S = 95 BRIGHTNESS UNIT = 1000 K



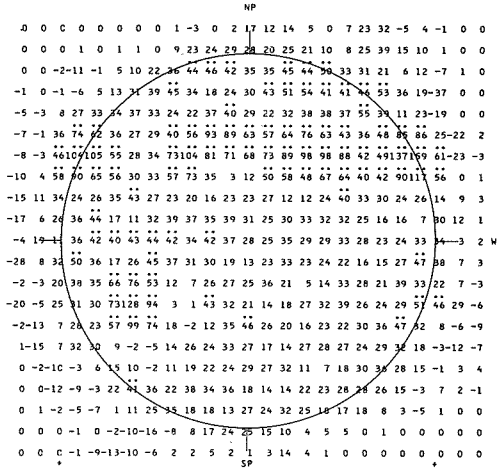
9.1 CM SPECTROHELIOGRAM

STANFORD, 15 MAY 1966 20-21 HOURS UT. S = 97 BRIGHTNESS UNIT = 1000 K



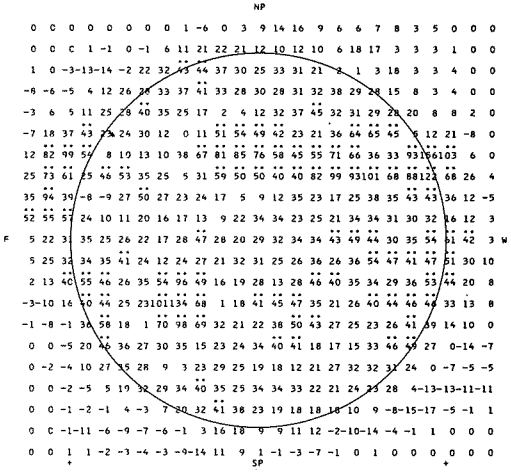
9.1 CM SPECTROHELIOGRAM

STANFORD, 16 MAY 1966 20-21 HOURS UT. S = 98 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 17 MAY 1966 20-21 HOURS UT. S = 97 BRIGHTNESS UNIT = 1000 K

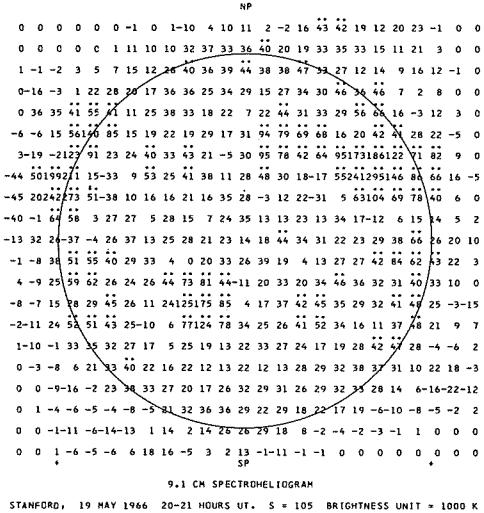


9.1 CM SPECTROHELIOGRAM

STANFORD, 18 MAY 1966 20-21 HOURS UT. S = 96 BRIGHTNESS UNIT = 1000 K

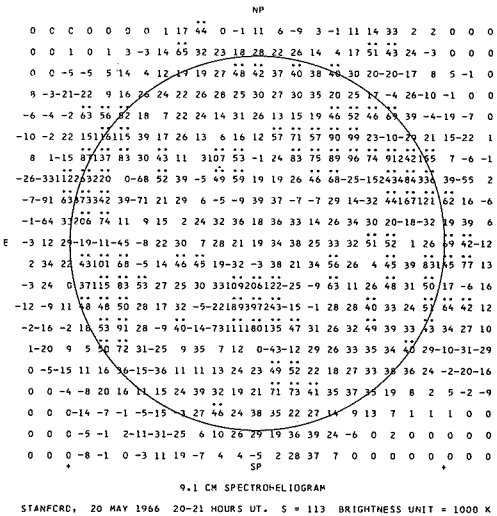
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD — **MAY 1966** — **9.1 cm**



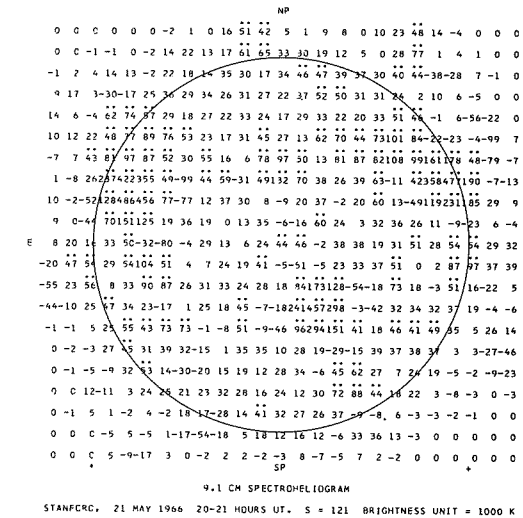
9.1 CM SPECTROHELIOGRAM

STANFORD, 19 MAY 1966 20-21 HOURS UT. S = 105 BRIGHTNESS UNIT = 1000 K



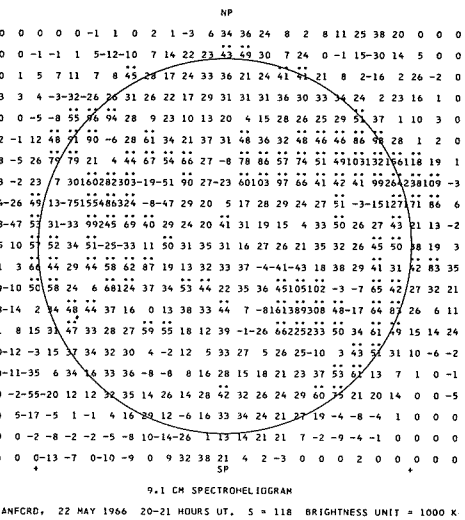
9.1 CM SPECTROHELIOGRAM

STANFORD, 20 MAY 1966 20-21 HOURS UT. S = 113 BRIGHTNESS UNIT = 1000 K



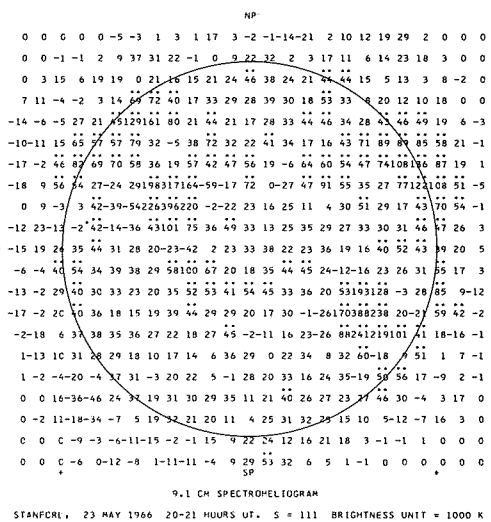
9.1 CM SPECTROHELIOGRAM

STANFORD, 21 MAY 1966 20-21 HOURS UT. S = 121 BRIGHTNESS UNIT = 1000 K



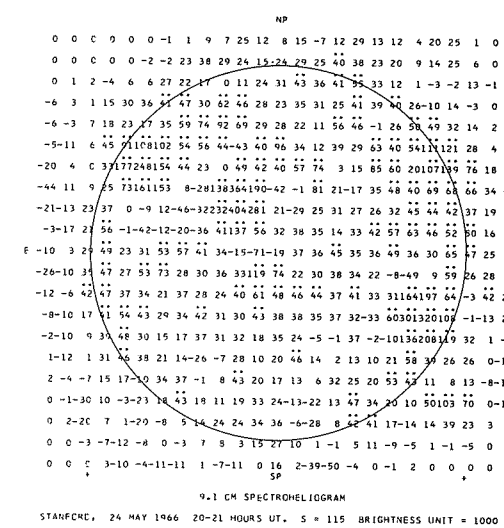
9.1 CM SPECTROHELIOGRAM

STANFORD, 22 MAY 1966 20-21 HOURS UT. S = 118 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 23 MAY 1966 20-21 HOURS UT. S = 111 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

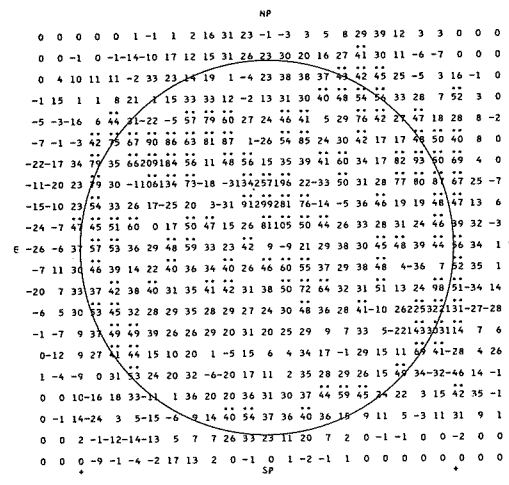
STANFORD, 24 MAY 1966 20-21 HOURS UT. S = 115 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD

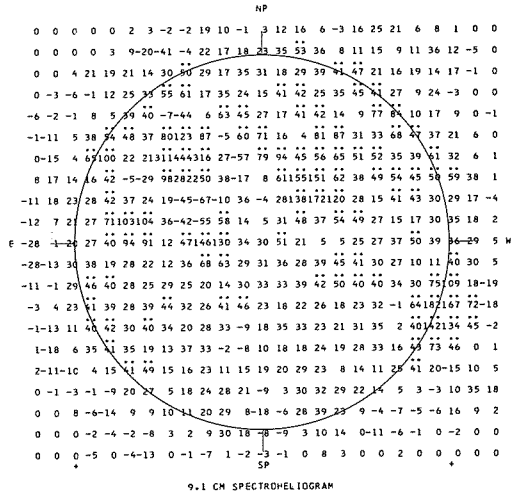
MAY 1966

9.1 cm



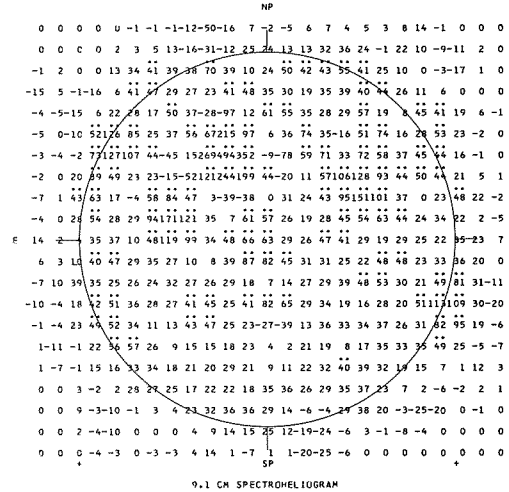
9.1 CM SPECTROHELIOGRAM

STANFORD, 25 MAY 1966 20-21 HOURS UT. S = 112 BRIGHTNESS UNIT = 1000 K



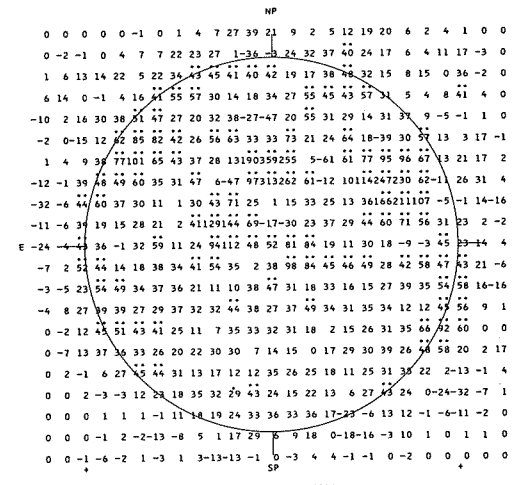
9.1 CM SPECTROHELIOGRAM

STANFORD, 26 MAY 1966 20-21 HOURS UT. S = 109 BRIGHTNESS UNIT = 1000 K



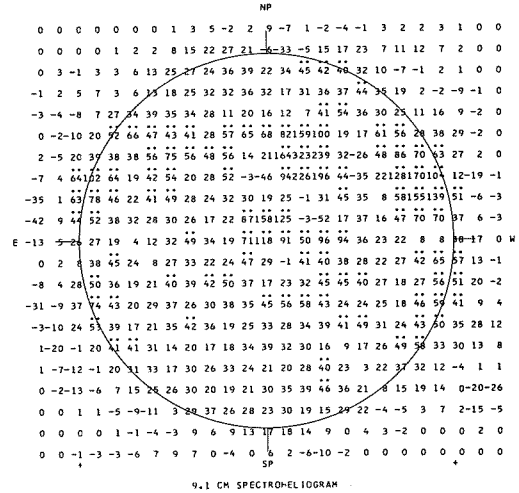
9.1 CM SPECTROHELIOGRAM

STANFORD, 27 MAY 1966 20-21 HOURS UT. S = 106 BRIGHTNESS UNIT = 1000 K



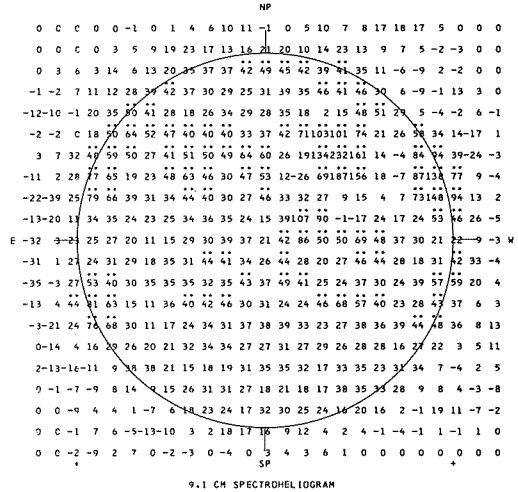
9.1 CM SPECTROHELIOGRAM

STANFORD, 28 MAY 1966 20-21 HOURS UT. S = 107 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

STANFORD, 29 MAY 1966 20-21 HOURS UT. S = 103 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM

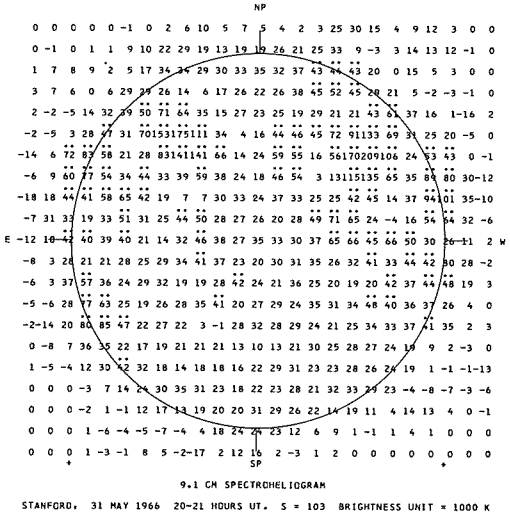
STANFORD, 30 MAY 1966 20-21 HOURS UT. S = 99 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD

MAY 1966

9.1 cm



9.1 CM SPECTROHELIOGRAM

STANFORD, 31 MAY 1966 20-21 HOURS UT. S = 103 BRIGHTNESS UNIT = 1000 K

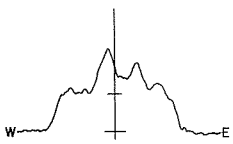
IVm

FLEURS, AUSTRALIA

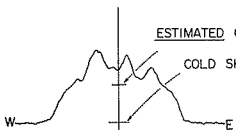
EAST - WEST SOLAR SCANS

MAY 1966

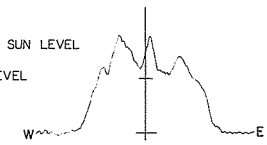
21 cm
Fan - Beam with 2 minutes of arc
E - W Resolution



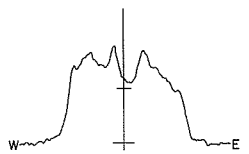
1966 May 01 0154 UT



1966 May 02 0100 UT

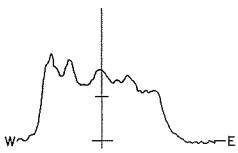


1966 May 03 0227 UT

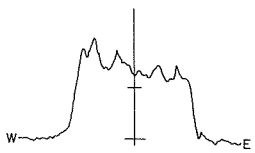


1966 May 04 0108 UT

NO DATA
1966 May 05

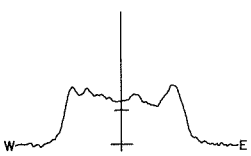


1966 May 06 0116 UT

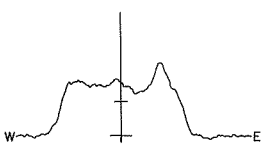


1966 May 07 0210 UT

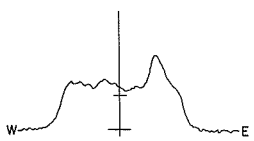
NO DATA
1966 May 08



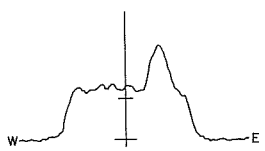
1966 May 09 0309 UT



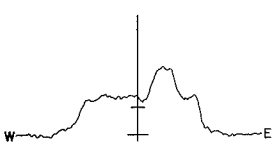
1966 May 10 0103 UT



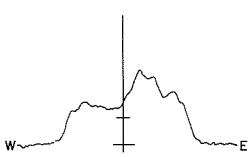
1966 May 11 0111 UT



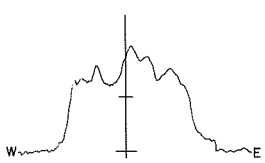
1966 May 12 0107 UT



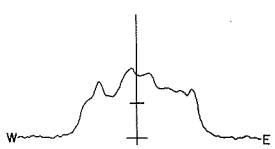
1966 May 13 0103 UT



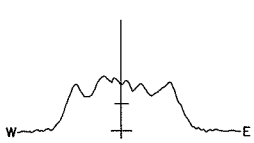
1966 May 14 0201 UT



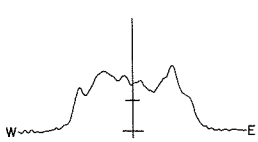
1966 May 15 0149 UT



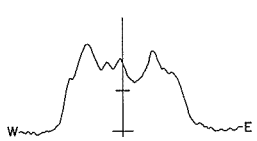
1966 May 16 0103 UT



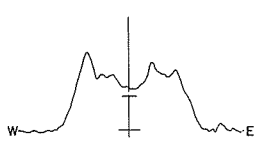
1966 May 17 0157 UT



1966 May 18 0107 UT

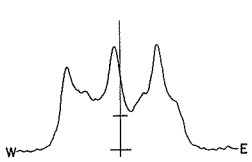


1966 May 19 0202 UT

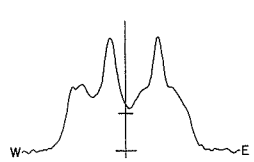


1966 May 20 0049 UT

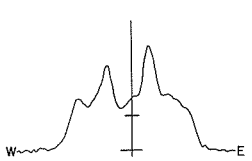
NO DATA
1966 May 21



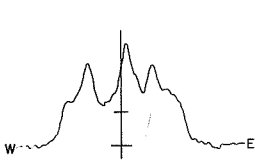
1966 May 22 0153 UT



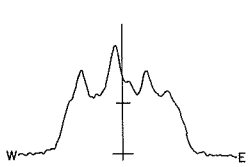
1966 May 23 0206 UT



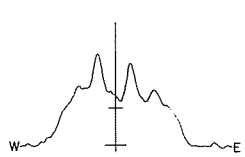
1966 May 24 0115 UT



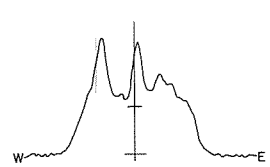
1966 May 25 0214 UT



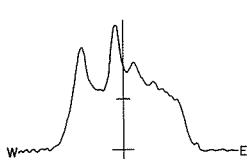
1966 May 26 0206 UT



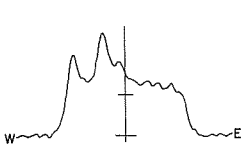
1966 May 27 0111 UT



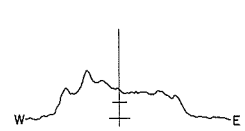
1966 May 28 0158 UT



1966 May 29 0203 UT



1966 May 30 0158 UT



1966 May 31 0107 UT

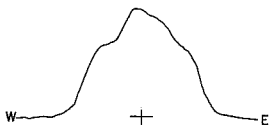
EAST - WEST SOLAR SCANS

IVn

FLEURS, AUSTRALIA

MAY 1966

43 cm



1966 May 01 0146 UT

1966 May 02 0211 UT

1966 May 03 0219 UT

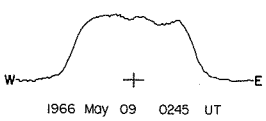
1966 May 04 0145 UT

NO DATA
1966 May 05

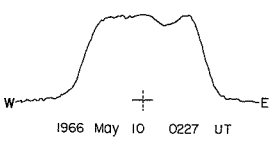
1966 May 06 0202 UT

NO DATA
1966 May 07

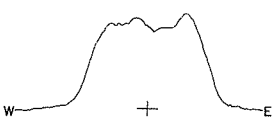
NO DATA
1966 May 08



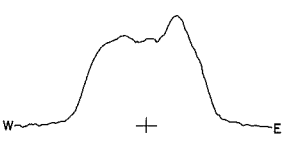
1966 May 09 0245 UT



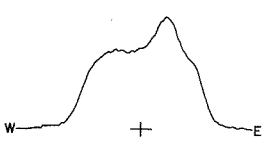
1966 May 10 0227 UT



1966 May 11 0219 UT

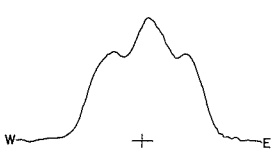


1966 May 12 0153 UT



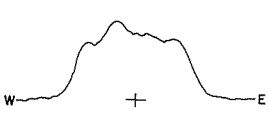
1966 May 13 0210 UT

1966 May 14 0210 UT



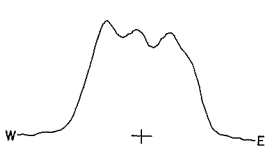
1966 May 15 0210 UT

1966 May 16 0218 UT



1966 May 17 0245 UT

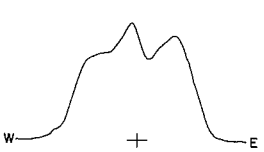
1966 May 18 0153 UT



1966 May 19 0201 UT

1966 May 20 0153 UT

NO DATA
1966 May 21



1966 May 22 0145 UT

1966 May 23 0145 UT

1966 May 24 0154 UT

1966 May 25 0154 UT

1966 May 26 0145 UT

1966 May 27 0145 UT

1966 May 28 0211 UT

1966 May 29 0145 UT

1966 May 30 0220 UT

1966 May 31 0145 UT

COSMIC RAY INDICES

(Neutron Monitors)

APRIL 1966

APRIL 1966	CHURCHILL	DEEP RIVER	CLIMAX	DALLAS
	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR
1	*	6870.1	4096.9	*
2		6895.2	4144.2	
3		6901.5	4150.1	
4		6905.1	4145.9	
5		6902.4	4129.7	
6		6906.1	4133.6	
7		6903.2	4132.6	
8		6957.2	4166.7	
9		6975.1	4178.1	
10		6977.1	4189.1	
11		6978.9	4190.3	
12		6980.8	4192.4	
13		7000.3	4215.7	
14		6991.6	4191.3	
15		6982.2	4178.0	
16		7006.6	4188.5	
17		7001.7	4198.1	
18		6999.4	4213.0	
19		6992.7	4230.0 (22)	
20		6993.2	4229.1	
21		7007.4	4227.7	
22		6976.1	4204.6	
23		6958.1	4185.1	
24		6938.2	4172.5	
25		6968.6	4170.0	
26		6976.7	4179.0	
27		6985.7	4182.9	
28		6978.8	4185.6	
29		7010.5	4212.4	
30		6972.8	4192.5	

* The data for April 1966 from Dallas and Churchill have not been processed. It will be published when it becomes available.

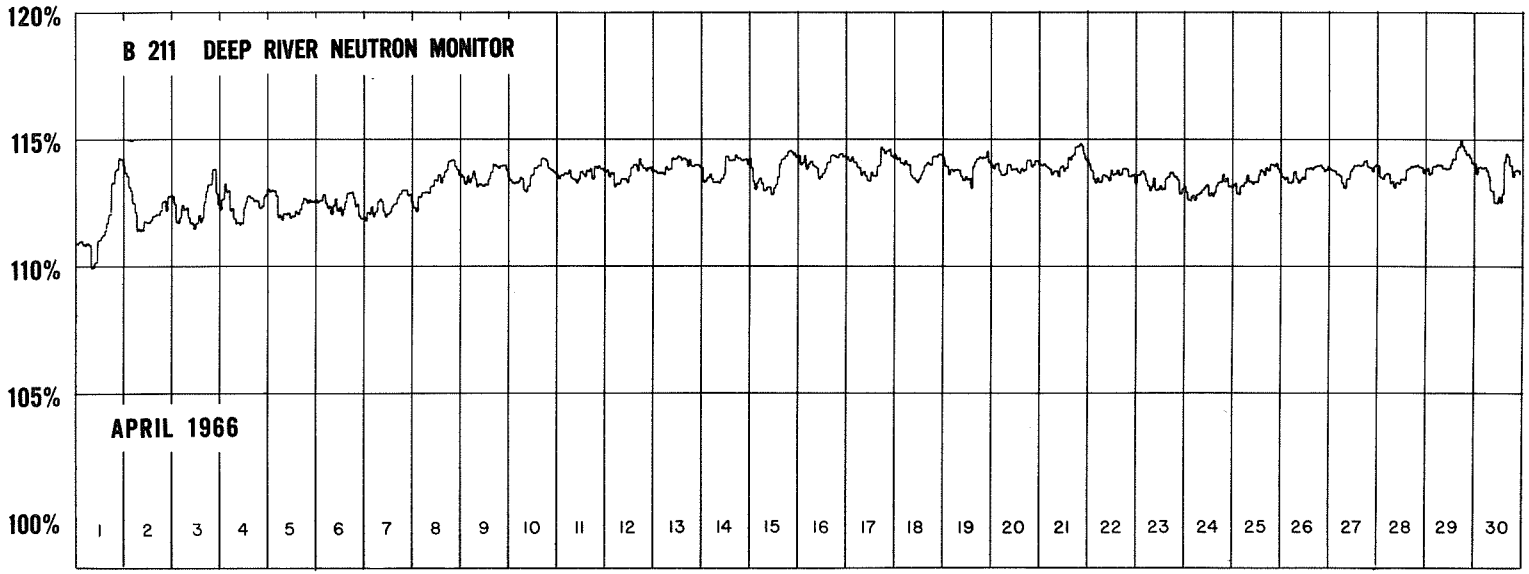
( ) Number of hours for which data are available if less than 24 (or number of section hours if less than 40 for Climax).

Deep River Neutron Monitor, Scaling Factor 300.

Climax IGC Station B305, Scaling Factor 100.

COSMIC RAY INDICES

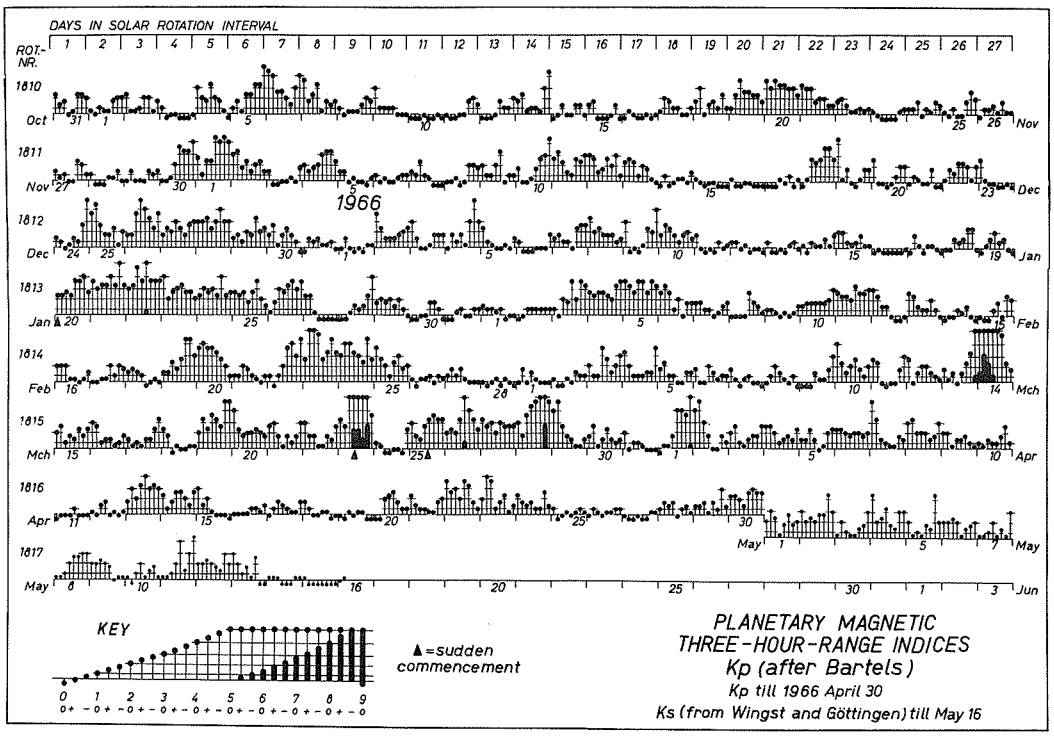
(Pressure Corrected Hourly Totals)



GEOMAGNETIC ACTIVITY INDICES

APRIL 1966

Day		Three-hour range indices Kp 1	2	3	4	5	6	7	8	Sum	Prel. Ci	Cp	Ap
1	D	0o	1-	1-	2-	4o	4o	4-	5+	20o	1.1	1.0	18
2	D	4o	5-	3o	2-	0+	0+	2-	1o	17-	0.7	0.7	13
3		2o	3-	1o	1-	1+	2-	2-	3-	14-	0.4	0.3	7
4		3-	3-	2o	1o	1+	2-	1+	2+	15o	0.4	0.4	8
5		1+	1+	2+	1+	0+	1-	2o	2+	12-	0.2	0.3	6
6		2+	2+	2o	2-	2o	2o	2-	2o	16o	0.4	0.4	7
7		5-	3+	1+	1o	1-	1-	2-	1+	15-	0.6	0.6	10
8		3o	3+	2o	2o	2o	1+	2-	3o	18+	0.6	0.6	10
9		2o	2o	1-	1+	1+	2-	1o	1-	11-	0.2	0.2	5
10		1o	1-	1+	1o	1o	2-	3-	1o	10+	0.3	0.2	5
11	Q	0o	0+	0+	0+	1o	0+	0+	0+	3o	0.1	0.0	2
12	q	1-	0+	1+	2-	0+	1-	0+	1-	6o	0.1	0.1	3
13	D	2-	3o	2o	3+	4o	3o	3+	3o	23+	0.9	0.9	15
14		2+	1o	2-	3-	3-	2o	1+	3-	16+	0.6	0.5	8
15		3o	1+	2o	1-	0+	0+	0+	0o	8o	0.2	0.2	4
16	q	0+	0+	0+	0+	1o	1o	1-	1+	5+	0.1	0.1	3
17	q	0+	1o	2-	1+	1o	1-	1-	2-	8+	0.1	0.1	4
18	q	2-	1o	0+	0+	1-	1-	0o	0+	5o	0.0	0.0	3
19	Q	0+	0o	1-	0+	1-	1-	0o	0o	3-	0.0	0.0	2
20		0o	0o	2o	2+	3-	2-	1o	1o	11-	0.4	0.2	5
21		2+	1+	1o	1o	1-	1-	2-	2o	11-	0.3	0.2	5
22	D	4-	3-	3o	2o	4-	3+	2-	1o	21o	0.9	0.8	13
23		2o	4o	4-	1o	2-	2+	1-	1+	17-	0.6	0.6	10
24		2+	2-	1+	2-	1o	1o	3-	1+	13o	0.3	0.3	6
25	Q	1o	0o	0+	1-	0+	1-	1o	1-	5-	0.1	0.0	3
26	Q	0+	1o	1-	0+	1-	1-	1o	1o	6-	0.1	0.1	3
27	Q	0+	0o	0o	0+	0o	0o	1-	1-	2o	0.0	0.0	1
28	q	1o	2-	1+	2-	0+	1o	1+	1-	9o	0.2	0.2	4
29		1+	1+	2-	1-	2-	1o	3o	1+	12o	0.4	0.3	6
30	D	2+	2+	2o	1+	3-	3o	3-	3-	19o	0.7	0.6	10
										Means:	0.37	0.33	7
										No. of days :	30	30	30



DAILY AVERAGE INDICES A_p

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

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

NORTH ATLANTIC, NORTH PACIFIC — APRIL 1966

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

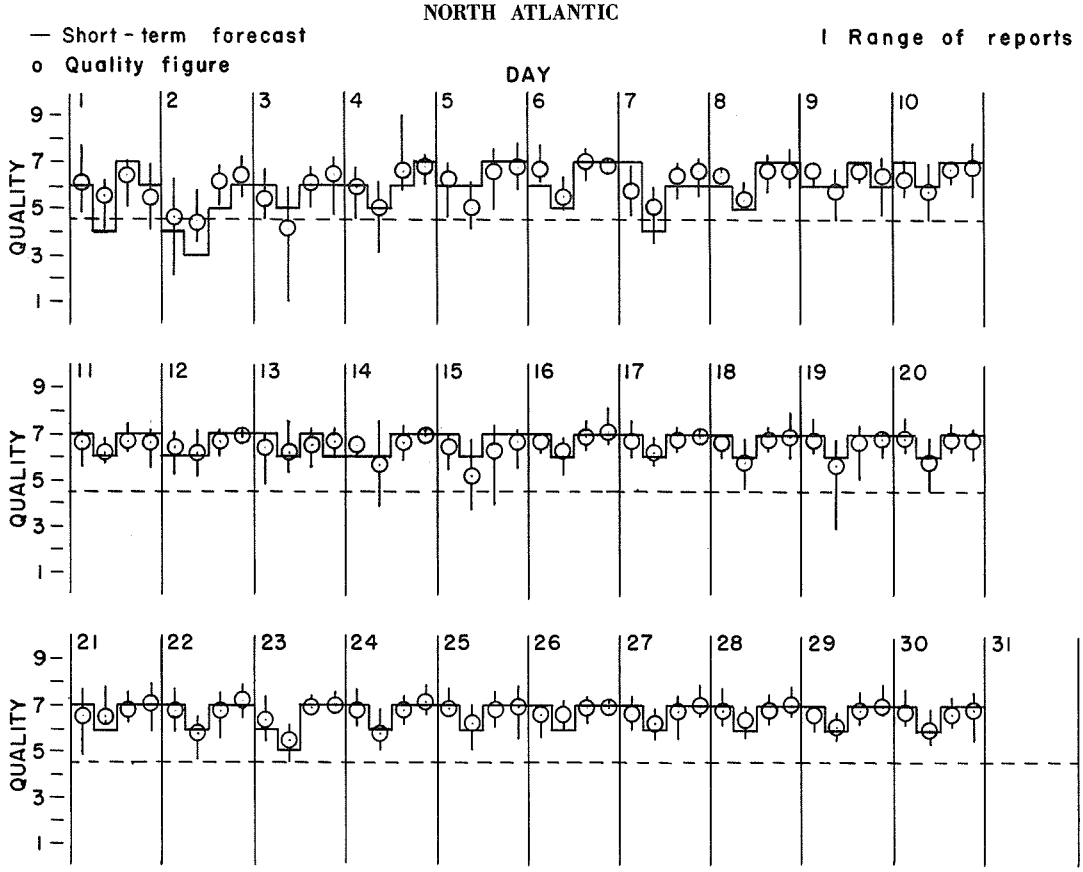
QUIET	P	25	21	20	26	27
	S	5	9	7	4	3
	U	0	0	0	0	0
	F	0	0	1	0	0
DISTURBED	P	0	0	0	0	0
	S	0	0	2	0	0
	U	0	0	0	0	0
	F	0	0	0	0	0

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

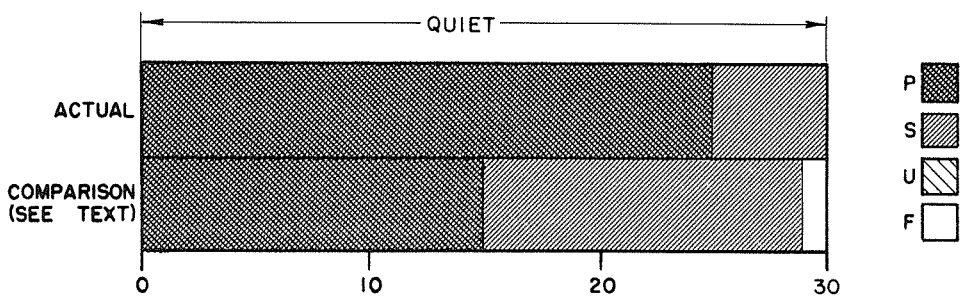
2) THE PREDICTED A_{FR} INDICES ARE ISSUED EACH WEDNESDAY FOR THE COMING SEVEN DAYS. THE VALUE FOR THE FIRST DAY OF EACH PREDICTION PERIOD IS UNDERSCORED.

APRIL 1966

NORTH ATLANTIC



HIGH LATITUDE

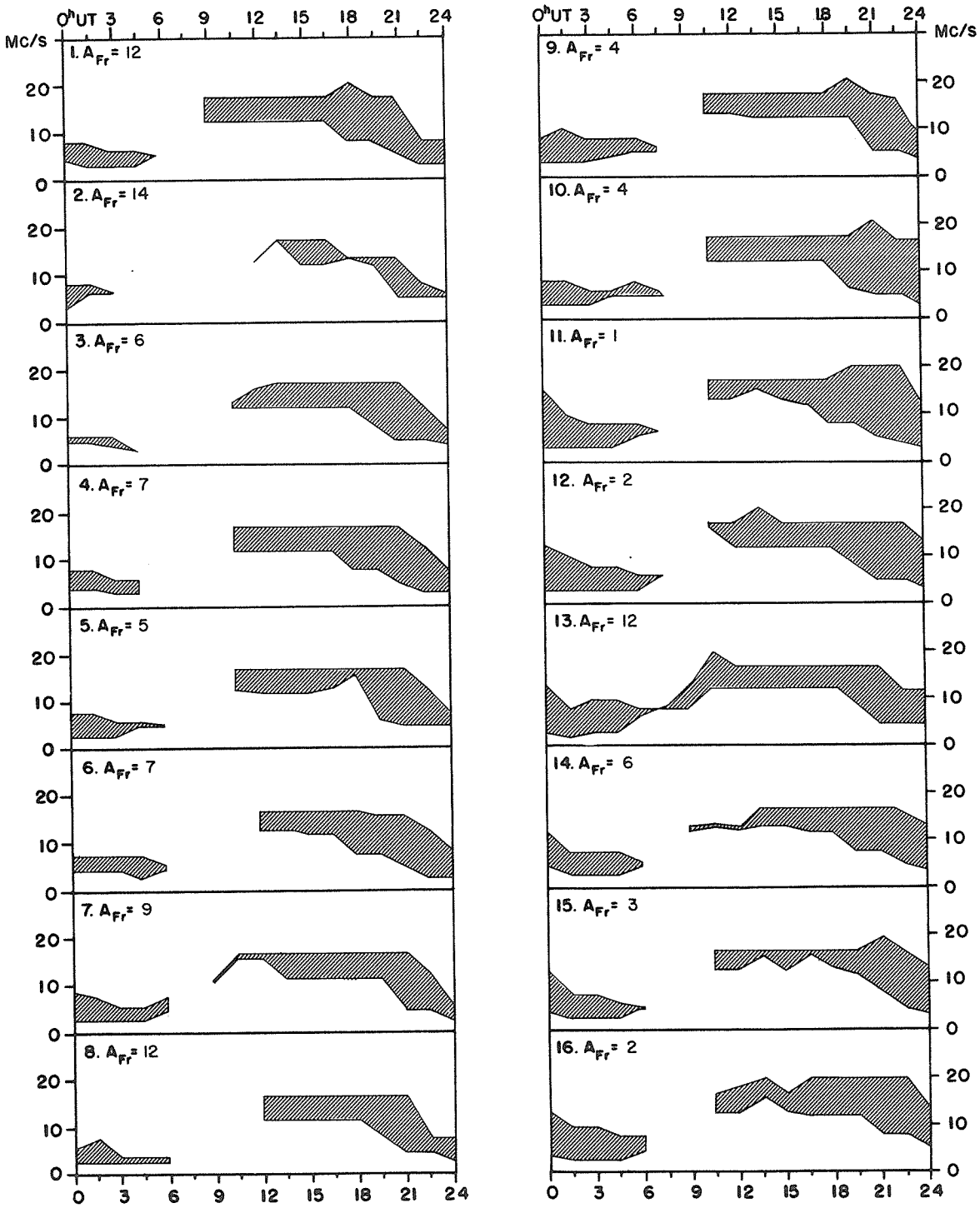


Erratum: An error occurred in the graphic representation of High Latitude Quality Forecasts (Actual vs Comparison) for March 1966. Two days at the left of the graph should be marked "Disturbed". The remaining twenty-nine days are "Quiet".

VIIc

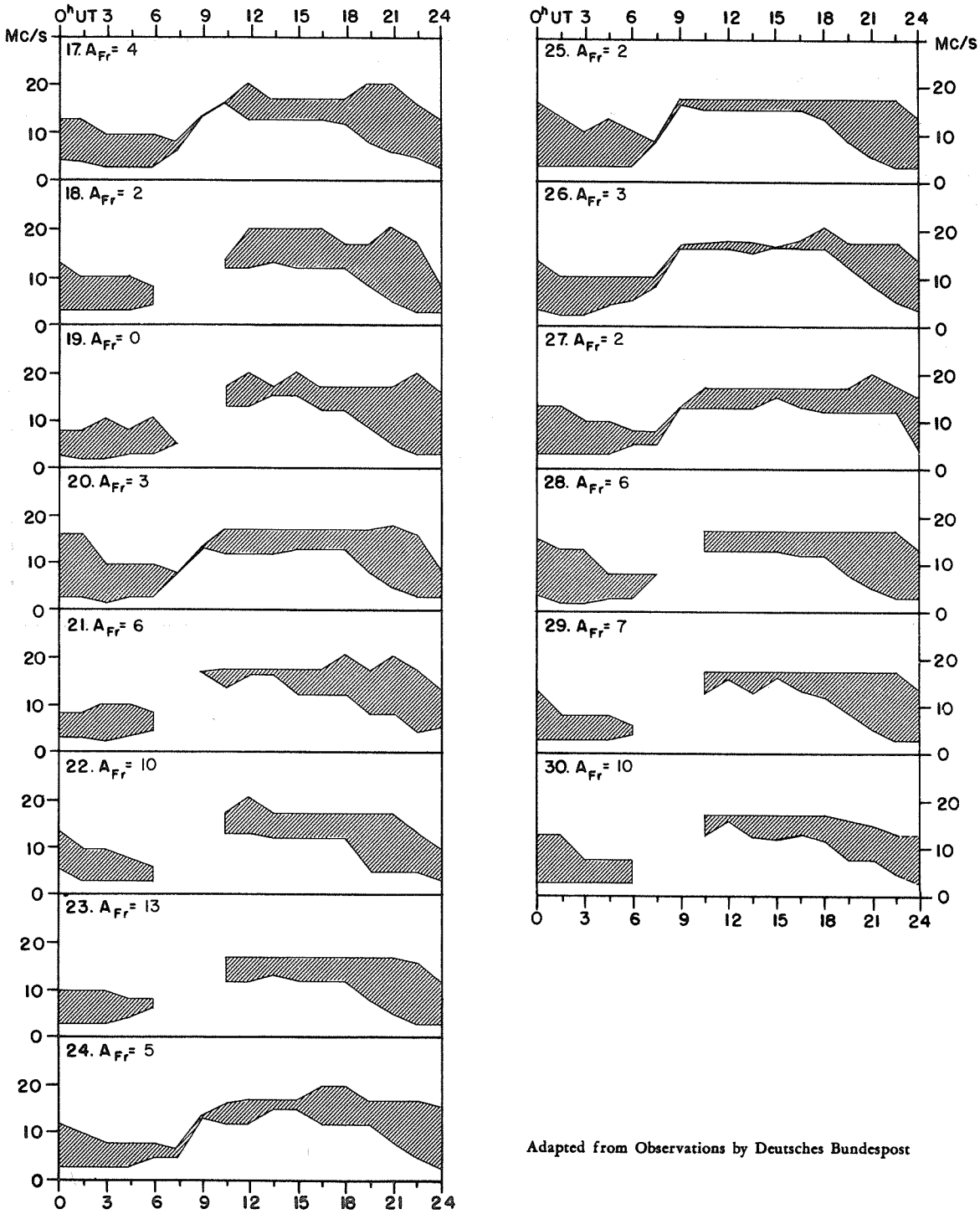
USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

APRIL 1966



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

APRIL 1966



Adapted from Observations by Deutsches Bundespost

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

MAY 1966

MAY 1966	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
4	0305*	ADALERTPRESTO TENFLARE Toyokawa 040151Z				
21	0400		347	Solar Activity	Exists	Flares
22	0400		348	Solar Activity	Exists	
23	0400		349	Solar Activity	Exists	
24	0400		350	Solar Activity	Exists	
25	0400		351	Solar Activity	Exists	
26	0400		352	Solar Activity	Exists	
	1400	AGIWARN, Magnetic Storm 26/08xxZ				
27	0400		353	Solar Activity	Exists	
			354	Magnetic Storm	Exists	
28	0400		355	Solar Activity	Exists	
	2005	McMath, Solar Flare 28/1615Z				
29	0400		356	Solar Activity	Exists	
			357	Magnetic Storm	Expected	
30	0400		358	Solar Activity	Exists	
			359	Magnetic Storm	Expected	

* Time when Alert was relayed by AGIWARN