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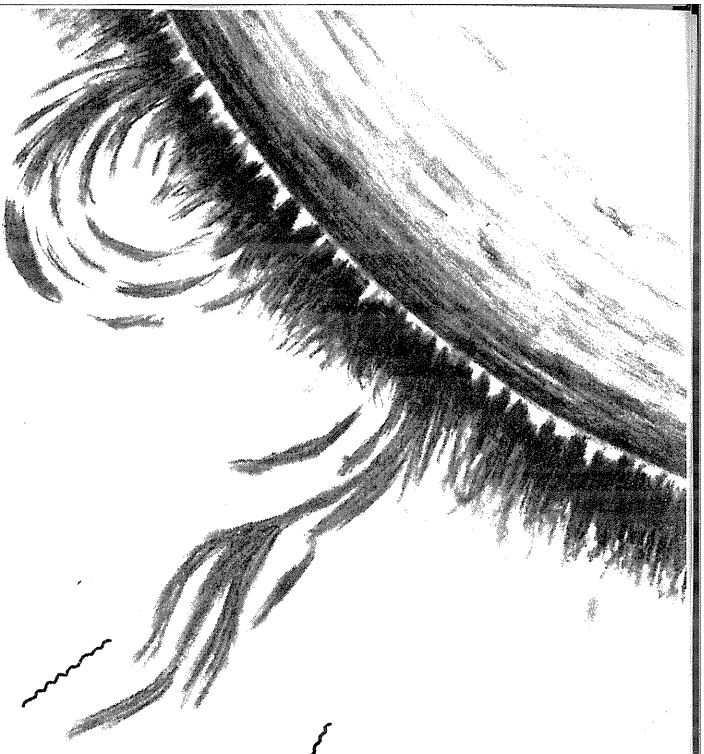
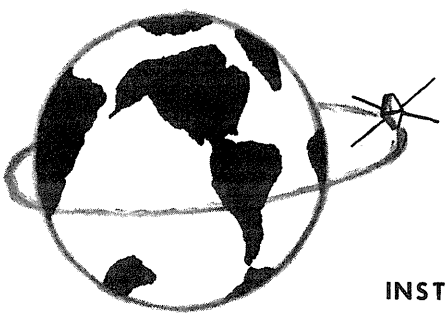


SPACE DISTURBANCES LABORATORY

SOLAR-GEOPHYSICAL DATA

Issued: October 1966



U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
INSTITUTE FOR TELECOMMUNICATION SCIENCES AND AERONOMY
BOULDER, COLORADO
80302

CRPL-FB 266

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
INSTITUTE FOR TELECOMMUNICATION SCIENCE AND AERONOMY
BOULDER, COLORADO

ISSUED

31 OCTOBER 1966

SOLAR-GEOPHYSICAL DATA

CONTENTS

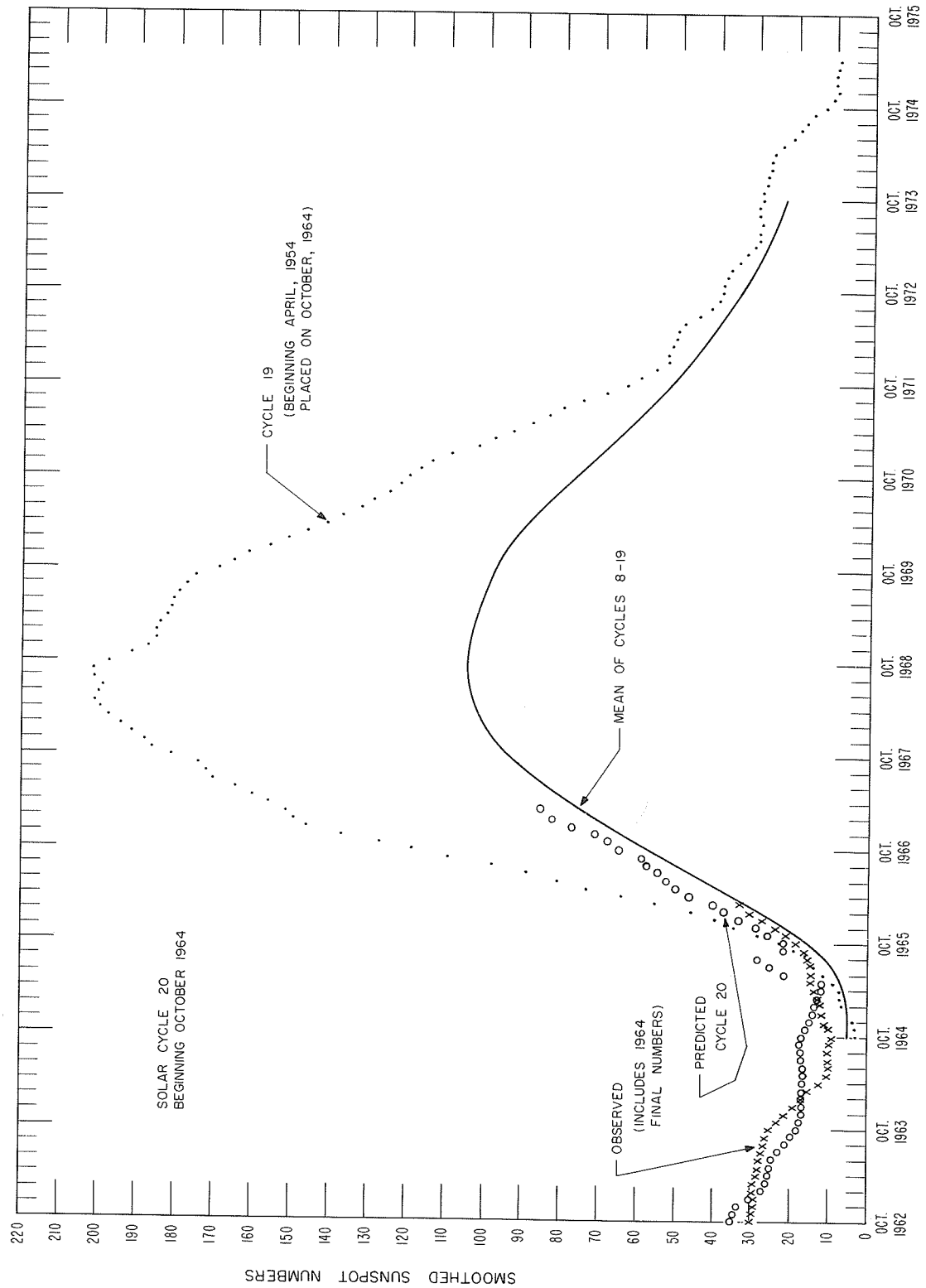
The descriptive text was republished in January 1966. Addenda have been given in the introduction to the CRPL-FB reports for April, May, August, and September 1966.

Addenda: Addenda will be found for:

February 1966 solar flares, published in CRPL-FB-262, June 1966; April 1966 solar flares, published in CRPL-FB-264, August 1966; and May 1966 solar flares, published in CRPL-FB-265, September 1966.

Revisions

The NRL solar radiation monitoring satellite data for July and August 1964, found in CRPL-FB-244, December 1964, has been replaced by revised data in this issue.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

	1965			1966							
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	52	29	13	18	7	25	64	50	71	49	78	44
2	63	28	8	17	9	11	58	48	74	49	62	44
3	60	20	8	16	20	11	74	57	41	54	65	25
4	62	13	8	15	17	18	74	61	60	53	51	18
5	55	13	8	8	17	12	55	38	43	48	53	26
6	39	29	8	7	17	14	59	23	43	46	50	30
7	27	40	8	7	16	10	70	13	38	58	31	36
8	7	46	15	13	13	9	65	16	35	68	13	38
9	8	38	7	13	10	15	47	8	33	56	7	39
10	13	41	7	7	11	13	37	0	25	58	0	37
11	8	40	0	8	14	10	25	14	43	52	16	42
12	9	26	0	0	8	0	27	14	34	62	36	38
13	8	17	14	17	16	0	24	23	34	56	30	29
14	7	16	0	30	12	0	29	52	31	37	37	35
15	0	10	14	36	16	9	29	46	22	34	41	38
16	7	9	22	57	13	26	35	47	40	48	36	57
17	0	7	21	50	19	44	40	33	46	42	35	76
18	0	0	20	64	24	53	40	27	39	49	35	83
19	10	0	18	68	32	60	24	34	33	38	27	76
20	12	0	15	63	39	54	37	57	42	65	24	78
21	15	0	10	52	41	49	40	80	29	55	22	89
22	26	7	11	44	50	52	56	66	34	66	38	86
23	23	0	9	38	55	40	69	68	59	56	65	71
24	16	7	8	41	42	31	58	68	63	70	71	62
25	24	0	12	27	37	23	56	64	80	67	89	68
26	17	7	23	19	36	18	54	70	78	74	95	54
27	17	0	29	16	35	10	40	66	69	52	90	48
28	9	8	64	14	31	12	40	60	52	61	84	35
29	8	8	64	19		35	48	39	47	76	89	40
30	8	15	44	28		42	52	58	55	63	76	38
31	14		38	15		52		56		66	66	
MEAN	20.1	15.8	17.0	26.7	23.5	24.5	47.5	43.7	46.4	55.7	48.8	49.3

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

AMERICAN, $R_{A'}$

	1965			1966							
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	33	29	10	25	0	11	32	24	56	33	77	30
2	39	27	10	21	12	12	37	37	48	37	70	28
3	50	20	10	19	14	14	34	35	41	54	69	18
4	43	11	9	13	16	16	49	19	50	51	64	16
5	37	1	10	7	17	15	40	15	39	36	46	15
6	26	29	12	1	15	14	47	17	26	30	40	20
7	16	43	9	0	14	10	49	12	22	52	23	27
8	5	34	2	1	13	10	55	11	26	45	8	36
9	10	38	3	0	12	16	36	8	27	49	0	36
10	11	43	0	0	14	15	26	0	24	44	1	48
11	11	38	0	0	15	7	19	0	26	56	17	41
12	9	24	0	0	11	0	22	5	32	47	24	32
13	10	15	0	19	12	3	16	9	18	27	31	28
14	2	16	0	30	14	1	22	22	21	19	28	31
15	0	14	18	37	13	15	31	28	24	14	33	37
16	0	12	21	31	16	21	28	24	33	33	42	47
17	0	0	18	43	13	43	28	18	36	40	38	61
18	0	0	19	43	25	46	29	14	31	40	33	58
19	8	0	16	55	24	46	16	33	27	35	29	67
20	12	0	0	55	33	41	42	56	28	46	15	63
21	14	0	7	41	36	32	38	59	32	38	17	77
22	22	0	8	34	43	29	42	51	42	43	43	63
23	20	3	10	36	55	19	58	59	58	56	66	64
24	21	4	6	31	47	17	51	59	61	59	83	57
25	16	0	17	18	47	16	47	49	66	57	89	65
26	11	0	20	14	47	10	34	61	62	65	96	39
27	12	0	35	15	32	0	22	48	44	62	95	26
28	11	6	44	14	28	12	22	41	35	75	86	26
29	11	9	55	20		36	33	40	29	71	81	35
30	11	10	47	21		41	33	37	33	75	51	36
31	12		28	3		32		56		75	33	
MEAN	15.6	14.2	14.3	20.9	22.8	19.4	34.6	30.5	36.6	47.2	46.1	40.9

DAILY SOLAR FLUX AT 2800 Mc s
OTTAWA ARO

OBSERVED FLUX, S

	1965			1966								
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	92.0	78.8	75.4	82.0	79.9	81.2	106.9*	90.3	101.9	96.8	122.2	114.5
2	93.2	79.5	75.0	78.9	79.2*	78.0	106.4	92.5	101.0	95.0	116.1	104.4
3	96.0	81.1	74.9	78.5	79.8	77.1	102.1	92.4	99.7	96.0	114.8*	101.5
4	97.5	79.8	74.5	80.5	81.3	76.7	102.5	91.0	99.1	101.4	112.7*	100.2
5	91.6	78.0	75.4	80.0	82.9	76.0	101.9	87.0	98.7	101.6	107.4	98.9
6	85.2	80.7	76.2	79.7	84.5	76.6	104.0	86.0	98.9	106.1	103.0	96.4
7	83.6	85.2	75.3	80.9	85.1	77.4	102.6*	88.2	94.1	108.9	98.7	94.4*
8	82.8	80.4	76.7	80.6	84.6	77.5	107.0*	86.2	96.6	110.6	95.0	94.8*
9	83.3	82.0	75.0	80.1	85.2	79.6	100.0	85.9	95.9	104.3	93.8	94.0
10	80.4	84.1	75.3	79.8	86.0	79.6	94.4	84.9	93.9	104.6*	91.8	92.6
11	76.0	84.2	75.6	80.9	85.8*	79.0	93.5	86.6	93.2	105.4	90.1	95.4
12	74.8	80.8	75.9	84.0	85.4	79.3	94.4	90.7	93.0	99.4	90.4	99.5*
13	75.8	77.3	74.0	87.2	86.1	81.0	92.6	91.0	93.1	97.2	90.8	101.1
14	74.7	76.0	74.7	93.2	86.1	82.3	90.5	95.1	93.9	96.6	90.5	106.0
15	73.8	76.5	76.8	101.9	85.4	88.1*	95.7	97.1	91.8	97.9	91.3	110.8
16	72.3	74.0	77.6	106.0	84.7	93.8*	92.6	97.9	94.9	99.5	92.8	123.3*
17	72.5	74.3	78.4	101.7*	84.1	106.2*	94.5	96.7	96.4	98.0	94.4	127.8
18	72.2	75.0	78.4	104.8*	84.1	110.6	92.1	96.4	95.1	98.1	95.1	141.3
19	71.8	73.4	76.8	108.6*	83.0	115.5	88.2	104.6*	93.8	98.3	97.7	145.3
20	72.7	72.7	74.5	102.3	84.7*	111.9	92.6	112.8*	91.3	98.6	99.2	144.9*
21	73.3	72.2	74.1	98.9	87.6	121.2	90.8	120.6	90.5	100.5	100.4	136.1
22	76.2	71.8	72.3	94.7*	87.9	105.8	92.4	118.1	93.0	103.2	103.1	130.6*
23	78.7	71.3	72.7	93.5	84.5*	96.8	97.8	111.1	96.0	111.3	112.2	126.6*
24	76.3	71.2	71.2	91.8	83.7	93.5	102.5	114.7	100.2	116.9	119.4*	125.3
25	77.9	70.6	72.1	88.1	80.9	91.6	102.6*	112.2	101.5*	122.1	123.6*	118.2*
26	78.2	71.8	76.9	85.4	84.8	85.0	100.0*	109.4	102.1*	123.7	127.5	108.9
27	78.0	74.1	83.7	82.4	84.8	83.4	95.6	105.6	97.5	120.1	130.7	102.5
28	77.2	77.0	83.8	80.5	85.7	87.9	93.6		98.1	120.5	130.0*	97.5
29	76.7	73.9	84.7	80.7		96.4	93.1	103.2	96.5	128.9	127.3	98.3
30	76.2	75.1	81.9	78.7		99.2	91.9	98.8	97.4	124.2	123.8	95.4
31	78.1		80.8	77.7		110.6		102.7		121.0	118.7	
MEAN	79.6	76.8	76.5	87.9	84.2	90.3	97.2	98.3	96.3	106.7	106.5	110.9

* adjusted for burst

FLUX ADJUSTED TO 1 A.U., S_a

	1965			1966								
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	92.2	77.6	73.3	79.3	77.6	79.7	106.8*	91.7	104.8	100.1	125.9	116.6
2	93.3	78.2	72.9	76.3	76.9*	76.7	106.3	94.0	103.9	98.2	119.6	106.3
3	96.1	79.8	72.7	75.9	77.5	75.8	102.1	94.0	102.6	99.3	118.2*	103.2
4	97.5	78.4	72.3	77.8	79.0	75.5	102.6	92.5	102.0	104.8	116.0*	101.9
5	91.6	76.7	73.2	77.4	80.6	74.8	102.0	88.6	101.7	105.0	110.5	100.5
6	85.1	79.2	74.0	77.1	82.1	75.5	104.2	87.5	101.9	109.7	106.0	97.9
7	83.5	83.7	73.0	78.2	82.8	76.2	102.8*	89.9	96.9	112.6	101.5	95.8*
8	82.6	78.9	74.4	77.9	82.3	76.4	107.3*	87.8	99.5	114.4	97.7	96.2*
9	83.0	80.4	72.7	77.4	82.9	78.5	100.3	87.5	98.9	107.8	96.4	95.3
10	80.1	82.4	73.0	77.2	83.8	78.6	94.8	86.6	96.8	108.1*	94.3	93.9
11	75.7	82.5	73.2	78.2	83.6*	78.0	93.9	88.3	96.1	109.0	92.5	96.6
12	74.5	79.1	73.5	81.2	83.2	78.3	94.8	92.6	95.9	102.7	92.8	100.8*
13	75.4	75.7	71.7	84.3	83.9	80.0	93.1	92.9	96.1	100.4	93.2	102.4
14	74.3	74.4	72.4	90.1	83.9	81.4	91.0	97.2	96.9	99.8	92.8	107.4
15	73.3	74.8	74.4	98.5	83.3	87.1*	96.3	99.2	94.7	101.1	93.7	112.0
16	71.8	72.4	75.1	102.6	82.7	92.9*	93.2	100.1	97.9	102.8	95.1	124.6*
17	72.0	72.6	75.9	98.4*	82.1	105.1*	95.2	98.9	99.5	101.2	96.8	129.1
18	71.6	73.3	75.9	101.4*	82.2	109.6	92.9	98.7	98.2	101.3	97.5	142.6
19	71.2	71.6	74.3	105.1*	81.1	114.6	89.0	107.1*	96.9	101.5	100.0	146.6
20	72.0	70.9	72.1	99.0	82.8*	111.0	93.5	115.5*	94.3	101.8	101.6	146.0*
21	72.6	70.5	71.7	95.7	85.7	120.3	91.7	123.6	93.5	103.7	102.7	137.2
22	75.4	70.0	70.0	91.8*	86.0	105.1	93.4	121.0	96.1	106.5	105.5	131.5*
23	77.9	69.5	70.3	90.6	82.7*	96.2	98.8	113.9	99.2	114.9	114.7	127.5*
24	75.5	69.3	68.8	88.9	81.9	92.9	103.7	117.7	103.5	120.6	122.0*	126.0
25	77.0	68.8	69.7	85.4	79.3	91.1	103.8*	115.1	104.8*	126.0	126.3*	118.8*
26	77.3	69.9	74.4	82.7	83.1	84.7	101.3*	112.3	105.6*	127.6	130.2	109.4
27	77.0	72.1	80.9	79.9	83.2	83.1	96.0	108.5	100.8	123.8	133.4	102.9
28	76.2	74.9	81.0	78.1	84.1	87.6	94.9		101.4	124.2	132.6*	97.9
29	75.6	71.9	81.9	78.3		96.1	94.5	106.8	99.8	132.9	129.8	98.6
30	75.1	73.0	79.2	76.3		99.0	93.3	101.6	100.7	128.0	126.1	95.7
31	76.9		78.1	75.4		110.4		105.6		124.6	120.9	
MEAN	79.1	75.1	74.1	85.0	82.1	89.4	97.8	100.6	99.4	110.1	109.2	112.4

* adjusted for burst

CALCIUM PAGE AND SUNSPOT REGIONS

SEPTEMBER 1966

Sept. 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	
1.0	N27	8470	8415	700	1.5	ℓ ∧ ℓ	3	8/24	12			
1.7	N22	8477	8422	700	1.5	ℓ ∧ ℓ	3	8/27	11			
2.1	N36	8476	8415	600	1.5	ℓ - ℓ	3	8/27	12			
2.4	S23	8473	New	900	2.5	ℓ - ℓ	1	8/27	12	(10)	(2)	b - d
2.5	N10	8483	New	300	1.0	b - d	1	8/31	3	(10)	(3)	b - d
2.9	N22	8474	New	700	2.5	ℓ - ℓ	1	8/28	12	10	4	ℓ - d
3.7	N28	8492	New	(200)	(2.0)	b - d	1	9/6	4			
4.0	S24	8493	New	(300)	(2.5)	b - d	1	9/6	2			
5.1	N21	8494	New	(300)	(1.5)	b - d	1	9/6	4			
6.0	S07	8498	New	(100)	(1.5)	b - d	1	9/7	2			
6.6	N23	8490	New	300	1.5	b - d	1	9/5	2			
7.6	S21	8484	New	800	3.0	ℓ ⟋ ℓ	1	9/?	12	10	8	b ⟋ ℓ
8.7	S23	8485	8429	400	2.0	ℓ - d	2	<9/4	>9			
8.7	N45	8499	New	400	1.5	b - d	1	9/7	3			
9.0	S16	8487	8453	500	2.0	ℓ - ℓ	2	<9/4	>11	(10)	(6)	b - d
9.2	N16	8488	New	(200)	(1.0)	b - d	1	<9/4	>2			
11.6	N09	8502	New	(300)	(2.0)	b - d	1	9/12	4	(10)	(5)	b - d
12.0	N32	8491(1)	8435	800	2.0	ℓ ⟍ ℓ	2	9/5	13	(10)	(1)	ℓ - d
12.3	S23	8495	New	600	2.5	ℓ ⟋ ℓ	1	9/6	12	(10)	(2)	ℓ - d
12.6	N20	8496	8438	2100	3.5	ℓ ⟍ ℓ	4	9/6	14	120	20	ℓ - ℓ
13.8	N29	8497	8438	1300	2.5	ℓ ∧ ℓ	4	9/6	14	(10)	(3)	b - d
15.2	N17	8503	New	(200)	(1.5)	b - d	1	9/12	2			
15.4	N38	8500	New	200	1.0	b ⟍ d	1	9/10	6			
15.4	N07	8510	New	(300)	(2.0)	b - d	1	9/17	≥3	(10)	(4)	b - d
16.3	S27	8501	New	900	3.0	ℓ ⟍ d	1	9/10	10			
17.0	N19	8511	New	(200)	(2.0)	b ⟋ ℓ	1	9/18	5	(10)	(3)	b ⟋ ℓ
18.8	N31	8504	New	(100)	(1.0)	ℓ - d	1	9/13	5			
19.5	S24	8508	8479	300	1.0	ℓ ⟍ d	2	<9/15	>8			
20.0	N07	8505	8454	4000	3.0	ℓ ∧ ℓ	2	9/13	14	650	51	ℓ ∧ ℓ
20.0	N22	8506	8443	1600	2.5	ℓ ∧ ℓ	4	9/13	13	(10)	(6)	b - ℓ
21.8	N24	8509	New	(2600)	(3.5)	ℓ ∧ ℓ	1	9/15	13	330	66	ℓ ∧ ℓ
22.5	N42	8512(2)	8442	800	1.0	ℓ - ℓ	3	9/16	13			
23.2	S20	8518	New	(100)	(1.5)	b - ℓ	1	9/27	2			
23.9	S10	8520	New	(100)	(1.0)	b - d	1	9/27	2			
24.8	N40	8515a(3)	8457	600	1.0	ℓ - d	2	<9/22	>5			
25.0	N23	8514	8461	(2600)	(2.0)	ℓ ∧ ℓ	2&4	9/18	13			
26.2	N09	8521	New	(300)	(1.5)	b - d	1	9/27	2			
27.1	N23	8516(4)	New	4000	3.5	ℓ ⌜ ℓ	1&4	<9/22	>11	260	63	ℓ ⟍ ℓ
27.6	N39	8515b(3)	8466	500	1.0	? - d	4	<9/27	>4			
28.3	S16	8522	New	400	3.0	b / ℓ	1	9/27	>5	10	3	b ∧ ℓ
29.5	N34	8523	New	400	1.5	b - d	1	9/27	>5	(10)	(2)	b - d
29.7	N23	8525	New	500	1.0	b - d	1	9/28	>4			
30.1	S20	8529	New	300	?.0	b - d	1	9/30	>?			

(1) Region 8491 is a return of the new part of region 8435 of the previous cycle.
(2) Region 8512 is a return of regions 8442 and 8455.
(3) The regions 8515a and 8515b are two different regions inadvertently numbered 8515.
(4) The region 8516 is mostly a new plage but is partly a return of region 8467.

No calcium plage observations were secured at the McMath-Hulbert Observatory on September 3, 20 and 21, 1966.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

SEPTEMBER 1966

Sept. 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	2250	N21	W52	(δ) 4	16114
2	No Obs.				
3	0015	N22	W67	(δ) 4	16114
3	2245	N22	W79	(δ) 4	16114
4	2240	N30	W66	(βp) 2	16122
		S22	E28	(βf) 2	16123
5	No Obs.				
6	0050	N28	W79	(βf) 2	16122
		S21	E22	(αp) 1	16124
		N32	E74	(αp) 1	16125
		N22	E81	(αp) 3	16126
6	2135	N21	E71	(βp) 3	16126
		S26	E72	(αp) 1	16127
7	2300	S21	W06	(αp) 2	16124
		N21	E60	(βp) 3	16126
		S23	E56	(αp) 1	16127
8	1740	S21	W22	(βp) 2	16128
		S21	W16	(βp) 2	16124
		S24	E45	(αp) 1	16127
		N20	E50	(βp) 5	16126
9	No Obs				
10	0040	S20	W38	(βp) 3	16128
		S21	W33	(βp) 2	16124
		N21	E33	(βp) 4	16126
10	1635	S20	W48	(βp) 3	16128
		S21	W41	(βp) 3	16124
		S17	W24	(βf) 2	16129
		N20	E24	(βp) 4	16126
11	2145	S20	W64	(βf) 2	16128
		S21	W57	(βp) 3	16124
		S15	W42	(αp) 1	16129
		N21	E07	(βp) 3	16126
		N27	E24	(αf) 1	16130
12	1905	S20	W80	αf	16128
		S20	W74	αf	16124
		S16	W57	αp	16129
		N21	W07	(βp) 2	16126
		N10	W16	(βp) 1	16131
13	2305	N22	W20	(βp) 3	16126
		N08	E72	(αp) 5	16132
14	1810	N22	W30	(βp) 3	16126
		N08	E64	(αp) 6	16132
15	2200	N22	W45	(βp) 4	16126
		N07	E49	(βγ) 6	16132
16	1705	N22	W54	(βp) 3	16126
		N07	E38	(βγ) 6	16132
		S22	W58	(αp) 1	16135
		N18	E38	(βp) 1	16133
		N21	E63	(βγ) 2	16134
17	1925	N21	W70	(βp) 3	16126
		N07	E23	(βp) 6	16132
		N07	W31	(αp) 1	16136
		N21	E49	(γ) 5	16134
18	No Obs.				
19	No Obs.				
20	1820	N06	W73	(αf) 1	16136
		N18	W52	(βγ) 2	16137
		N07	W14	(δ) 6	16132
		N21	E10	(βγ) 5	16134
		N24	E84	αp	16138
21	1720	N18	W64	(βp) 4	16137
		N07	W27	(δ) 5	16132
		N22	W07	(βγ) 5	16134
		N23	E70	(βf) 4	16138
22	1630	N18	W78	βp	16137
		N07	W42	δ	16132
		N22	W15	βγ	16134
		N23	E57	βf	16138
23	No Obs.				
24	1805	N07	W67	(δ) 5	16132
		N18	W56	(αp) 2	16139
		N22	W43	(βp) 5	16134
		N22	E31	(βγ) 4	16138
25	2330	N07	W88	δ	16132
		N22	W65	βp	16134
		N22	E17	βf	16138
26	1645	N23	W71	(βp) 4	16134
		N22	E07	(βf) 4	16138
27	1635	N22	W83	αp	16134
		N22	W07	βf	16138
28	No Obs.				
29	No Obs.				
30	1810	N24	W46	(βγ) 4	16138
		S17	W32	(β) 2	16140
		S16	W05	(βp) 1	16141

SOLAR FLARES

SEPTEMBER 1966

OBSERVATORY	OBSERVED UT				LOCATION						DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	SEPT																			
MANI	01	0034E	0041D	0038	N21	W46	.725	8461	28.6		7D	SB			0038	.31	.46			
HALE	01	0045E	0104	0046	N22	W46	.728	8461	28.6		19D	SB	1	P	0046	.31	.50			
HALE	01	0104E	0109D	0106	N26	W39	.664	8461	29.1		5D	SN	1	P	0106	.21	.30			
MANI	01	0159	0224	0205	N23	W37	.628	8461	29.3		25	SN			0205	.62	.80			
MITK	01	0200	0221	0203	N24	W37	.632	8461	29.3		21	SN		C	0203	1.13	1.50			
MITK	01	0208E	0222		N24	W37	.632	8461	29.3		14D	SN		C	0213	1.34	1.70			E
MANI	01	0308	0315	0310	N23	W48	.751	8461	28.5		7	SN			0310	.15	.24			
HALE	01	0317	0340U	0323	N22	W45	.717	8461	28.8		23U	SN	1	P	0323	.83	1.20			
HALE	01	0344E	0348D	0345U	N21	W47	.736	8461	28.6		4D	SN	1	P	0345	.21	.30			
MITK	01	0409	0425	0414	N21	W49	.758	8461	28.5		16	SF		C	0414	1.34	2.00			E
MANI	01	0414E	0420		N20	W49	.756	8461	28.5		6D	SN			0414	.21	.21			
MANI	01	0624	0638	0631	N22	W49	.760	8461	28.6		14	SF			0631	.72	1.10			
ISTA	01	0655	0700		N21	W48	.747	8461	28.7		5	S								
MANI	01	0712	0721	0715	N27	W40	.679	8461	29.3		9	SN			0715	.21	.28			
KAND	01	0715	0728		N21	W45	.714	8461	28.9		13	SF								
CAPS	01	0719	0728		N20	W50	.767	8461	28.6		9	SF	3		0725	.20	.30		155	E
CAPS	01	0728	0744		N23	W39	.652	8461	29.4		16	SF	3		0735	.40	.50		157	H
MANI	01	0734	0746	0737	N26	W40	.675	8461	29.3		12	SN			0737	.36	.49			
ISTA	01	0734	0747		N21	W41	.668	8461	29.2		13	S								
ISTA	01	0752	0757		N22	W42	.683	8461	29.2		5	S								
KAND	01	0840	1340		N24	W42	.689	8461	29.2		300	SN								
CAPS	01	0853E	0859		N24	W45	.722	8461	29.0		6D	SN	3		0854	.30	.40		170	
CAPS	01	1020	1032D		N23	W39	.652	8461	29.5		12D	SN	3		1026	.80	1.00		175	
MONT	01	1052	1105		N23	W53	.801	8261	28.5		13	SN		C			2.00			
CAPS	01	1053E	1103		N20	W49	.756	8461	28.8		10D	SF	3		1055	.40	.70		157	
KAND	01	1053	1340		N23	W48	.751	8461	28.9		167	1N			1056		2.80			
MONT	01	1145	1151		N27	W45	.731	8461	29.1		6	SB		C			2.00			
KAND	01	1145	1301		N26	W41	.686	8461	29.4		76	1B					2.90			
CAPS	01	1146E	1158		N24	W45	.722	8461	29.1		12D	SB	3		1147	1.20	1.90		201	
CAPS	01	1217E	1223D		N24	W45	.722	8461	29.1		6D	SF	3		1219	.30	.50		157	
HUAN	01	1237	1246	1239	N26	W45	.728	8461	29.2		9	SF	2	C	1239	.31	.38			
MCMA	01	1237	1247	1241	N26	W46	.738	8461	29.1		10	SB		C	1241	.26	.40			DH
CAPS	01	1239	1248		N24	W45	.722	8461	29.2		9	SB	3		1241	.80	1.30		216	
MCMA	01	1305	1312	1307	N22	W54	.809	8461	28.5		7	SN		C	1307	.26	.50			D
HUAN	01	1306	1313	1308	N22	W53	.800	8461	28.6		7	SF	2	C	1308	.31	.40			D
MCMA	01	1320	1342	1328	N22	W54	.809	8461	28.5		22	SN		C	1328	.62	1.10			D
HUAN	01	1321	1337	1328	N23	W53	.801	8461	28.6		16	SN	2	C	1328	.50	.65			E
CAPS	01	1325E	1339D		N18	W55	.815	8461	28.4		14D	1N	3		1327	2.00	3.40		176	
LOCK	01	1520	1542	1528	N23	W56	.829	8461	28.4		22	SN		C	1528	1.20	2.00		20	
MCMA	01	1522	1538	1527	N22	W54	.809	8461	28.6		16	SB		C	1527	.83	1.40			DV
CAPS	01	1522	1539		N18	W55	.815	8461	28.5		17	1B	3		1529	1.90	3.20		210	
LOCK	01	1633	1641	1637	N23	W56	.829	8461	28.5		8	SN		C	1637	.40	.70		10	
MCMA	01	1635	1640	1637	N22	W54	.809	8461	28.6		5	SF		C	1637	.26	.50			D
LOCK	01	1640	1655	1645	N24	W46	.733	8461	29.2		15	SF		C	1645	.50	.80		10	
MCMA	01	1643	1650	1645	N26	W46	.738	8461	29.2		7	SF		C	1645	.26	.40			D
LOCK	01	1724	1800	1736	N23	W56	.829	8461	28.5		36	SN		C	1736	1.00	1.70		10	
MCMA	01	1727	1820	1731	N22	W55	.818	8461	28.6		53	SB		C	1731	.36	.60			DKW
LOCK	01	1854	1900	1857	N23	W56	.829	8461	28.6		6	SF		C	1857	.30	.50		10	
MCMA	01	1855	1859	1857	N22	W55	.818	8461	28.7		4	SN		C	1857	.31	.50			D
MCMA	01	2009	2115D	2025	N25	W47	.746	8461	29.3		66D	SN		C						
MCMA	01			2042											2042	.83	1.40			E
LOCK	01	2025	2042D	2042	N26	W48	.759	8461	29.3		17D	SN		C	2042	1.00	1.60		20	
HUAN	01	2035	2058	2041	N25	W49	.766	8461	29.2		23	SN	2	C	2041	.80	1.00			E
HALE	01	2037	2105U	2041	N24	W51	.784	8461	29.0		28U	SB	1	P	2041	.93	1.50			
MCMA	01	2130	2141	2133	N22	W56	.828	8461	28.7		11	SN		C	2133	.41	.70			E
LOCK	01	2145	2210	2152	N24	W50	.774	8461	29.2		25	SN		C	2152	.80	1.30		10	
MCMA	01	2147	2148D		N25	W47	.746	8461	29.4		1D	SB		P	2147	.41	.60			E
MANI	02	0008	0026	0014	N22	W59	.854	8461	28.6		18	1N			0014	1.40	2.52			
LOCK	02	0008	0040	0013	N22	W58	.845	8461	28.7		32	SN		C	0013	1.00	1.90		20	
HALE	02	0206E	0210D	0208	N25	W51	.786	8461	29.3		4D	SB	2	P	0208	1.03	1.70			
MANI	02	0208E	0229	0214	N23	W50	.772	8461	29.3		21D	1N			0214	2.58	4.10			
HALE	02	0237	0241	0239	N21	W60	.861	8461	28.6		4	SN	1	C	0239	.10	.20			
MANI	02	0256	0304	0258	N22	W53	.800	8461	29.1		8	SF			0258	.36	.59			
HALE	02	0351U	0412	0353	N24	W53	.803	8461	29.2		21U	SN	1	P	0353	.62	1.00			
MANI	02	0358	0407	0400	N22	W54	.809	8461	29.1		9	SN			0400	.67	1.12			
MANI	02	0541E	0753D	0557	N22	W57	.837	8461	29.0		132D	2B			0557	5.16	8.90			
CAPS	02	0548E	0925	0602	N23	W55	.820	8461	29.1		217D	3B	3		0600	1.00	17.80		651	FIKX
MONT	02	0631	0930		N26	W57	.841	8461	29.0		179	2B		C			5.00			
ARCE	02	0758E	0905D		N22	W54	.809	8461	29.3		67D	1B		C	0758	2.75	4.70			H
MERS	02	0804E	0813D	0804	N21	W60	.861	8461	28.8		9D	SN		P	0804	.41	.70			BE
MONT	02	0825	0930		N21	W65	.900	8461	28.5		65	2B		C			5.00			
ARCE	02	0826E			N22	W54	.809	8461	29.3			1N		P	0826	1.20	2.00			O
ARCE	02	0826E			N18	W64	.892	8461	28.6			2N		P	0826	2.73	6.20			O
ARCE	02	0830	0905	0830	N18	W64	.892	8461	28.6		35	2B		C	0830	4.69	11.10			C
KAND	02	1120E	1140D		N24	W59	.856	8461	29.0		20D	□								
KAND	02	1125	1140D		N23	W66	.907	8461	28.5		15D	□								
KAND	02	1130	1140D		N24	W55	.821	8461	29.4		10D	□								
HUAN	02	1309E	1307		N26	W62	.881	8461	28.9		2D	SF	2	P	1306	.25	.38			D
HUAN	02	1359	1414		N22	W66	.907	8461	28.6		15	SF	1	C	1403	.31	.50			E

SOLAR FLARES

SEPTEMBER 1966

OBSERVATORY	OBSERVED UT DATE 1966 SEPT	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
MCMA	02	1403	1412	1404	N21	W68	.920	8461	28.5	9	SF		C	1404	.26	.60			D
MCMA	02	1430	1450	1432	N28	W25	.522	8470	31.7	20	SF		C	1432	.21	.20			D
HUAN	02	1545	1558	1551	N20	W65	.900	8461	28.8	13	SF	2	C	1551	.25	.39			D
MCMA	02	1755	1817	1758	N21	W68	.920	8461	28.6	22	SB		C	1758	.41	1.00			DH
HUAN	02	1801E	1818		N20	W66	.907	8461	28.8	17D	SF	1	P	1805	.25	.40			D
LOCK	02	1813	1837	1825	N32	W59	.866	8460	29.3	24	SF		C	1825	.50	1.00		10	L
HALE	02	2114E	2152D	2137U	N23	W68	.920	8461	28.8	38D	SF	1	P	2137	.41				
LOCK	02	2222	2247	2235	N27	W67	.916	8461	28.9	25	SN		C	2235	.90	2.00		20	H
LOCK	02	2331	2338	2335	N26	W66	.909	8461	29.0	7	SN		C	2335	.50	1.10		20	
MANI	03	0241E	0247		N21	W04	.247	8474	2.8	6D	SF			0242	1.16	1.20			
MANI	03	0414	0421	0416	N20	W73	.949	8461	28.7	7	SF			0416	.19	.42			
MANI	03	0448	0512	0454	N21	W70	.932	8461	29.0	24	SN			0454	.83	1.74			
MANI	03	0606	0625	0614	N22	W70	.932	8461	29.0	19	SF			0614	.41	.87			
CAPS	03	1014E	1108D		N15	W75	.960	8461	28.8	54D	1N	3		1018	.80			175	
MONT	03	1413	1427		N25	W77	.967	8461	28.8	14	1N		C			3.00			
HUAN	03	1417	1445D		N32	W71	.940	8460	29.3	28D	SF	1	P	1428	.57				D
LOCK	03	1534	1545	1539	N25	W47	.746	8467	31.1	11	SB		C	1539	.80	1.20		30	
HUAN	03	1537	1543		N24	W48	.753	8467	31.1	6	SN	1	C	1538	.57	.71			E
HALE	03	1622E	1626	1624	N19	W80	.979	8461	28.7	4D	SN	1	P	1624	.31				T
HALE	03	1622E	1713	1656	N23	W78	.971	8461	28.8	51D	SF	2	P	1656	.26				T
HALE	03	1759	1811	1804	N19	W84	.990	8461	28.4	12	SN	1	C	1804	.15				J
HALE	03	1920	1939	1937U	N22	W81	.982	8461	28.7	19	SN	1	C	1937	.21				T
HALE	03	2052U	2113D	2057	N22	W84	.990	8461	28.6	21D	SN	1	P	2057	.21				TJ
HALE	03	2252E	2305D	2301	N19	W84	.990	8461	28.7	13D	SB	1	P	2301	.41				ET
LOCK	03	2255	2310	2300	N19	W85	.992	8461	28.6	15	SF		C	2300	.30	1.00		10	
HALE	03	2333E	0010U	2353	N22	W84	.990	8461	28.7	37U	1B	1	P	2353	.52				ET
LOCK	03	2346	2351	2348	N24	W85	.991	8461	28.6	5	SF		C	2348	.30	1.00		10	H
LOCK	04	0042	0048	0044	N24	W85	.991	8461	28.7	6	SF		C	0044	.30	1.00		10	H
MANI	04	0410	0427D	0419	N22	W84	.990	8461	28.9	17D	3B			0419	5.00	13.20			
MITK	04	0415E	0423D		N21	W90	.999	8461	28.4	8D	3N		C	0418	5.57				FH
HALE	04	0425E	0432D	0426U	N21	W87	.996	8461	28.7	7D	B	1	P	0426	2.58				F
ISTA	04	0600E	0745		N21	W90	.999	8461	28.5	105D	1								
ARCE	04	0935E			N21	W90	.999	8461	28.6		1N		C	0935	.68	3.80			A
MCMA	04	1255E	1259D		N22	W90	.999	8461	28.8	4D	SF		P						B
HUAN	04	1353E	1402		N30	W62	.885	8467	30.9	9D	SF	1	P	1355	.21	.31			D
HUAN	04	1434E	1502		N23	W90	.999	8461	28.9	28D	SF	1	P	1440	.21				D
LOCK	04	1740	1802	1750	N28	W64	.896	8467	30.9	22	SF		C	1750	.80	1.70		10	
MCMA	04	1747	1807		N29	W65	.904	8467	30.9	20	SN		P	1750	.52	1.20			E
LOCK	04	1755	1807	1759	N24	W85	.991	8461	29.4	12	SN		C	1759	.30	1.00		20	H
MCMA	04	1756E	1759D		N22	W90	.999	8461	29.0	3D	SN		P						D
HUAN	04	1756	1803		N23	W90	.999	8461	29.0	7	SN	1	C	1759	.31				E
HALE	04	1756	1810	1757	N22	W87	.995	8461	29.2	14	N	1	C	1757	.36				
LOCK	04	2020	2050	2030	N24	W85	.991	8461	29.5	30	SF		C	2030	.30	1.00		10	H
LOCK	04	2140	2210	2153	N24	W85	.991	8461	29.5	30	SF		C	2153	.30	1.00		10	
LOCK	04	2152	2220	2203	N29	W69	.928	8467	30.7	28	1N		C	2203	.90	2.10		20	
LOCK	04	2317	2344	2330	N29	W70	.934	8467	30.7	27	SF		C	2330	.50	1.20		10	
HALE	05	0348	0407	0356	N29	W71	.939	8467	30.8	19	SN	1	C	0356	.21				
KAND	05	0812	1020		N30	W75	.958	8467	30.7	128	SN								
KAND	05	1109	1226D		N22	E90	.999	8496	12.2	77D	2B								
LOCK	05	1608	1635	1615	N26	W79	.974	8467	30.7	27	SF		C	1615	.30	.90		10	
MCMA	05	1611E	1620D	1616	N28	W78	.970	8467	30.8	9D	SN		P	1616	.41	1.50			D
LOCK	05	1650	1700	1655	N27	W74	.954	8467	31.2	10	SN		C	1655	.30	.80		10	
HALE	05	1651	1704	1653	N29	W75	.958	8467	31.1	13	SN	1	C	1653	.21				
LOCK	05	1747	1815	1753	N27	W77	.967	8467	31.0	28	SN		C	1753	.40	1.20		20	
HALE	05	1749	1814	1751	N30	W78	.970	8467	30.9	25	SN	1	C	1751	.26				
MCMA	05	1752E	1816		N28	W79	.974	8467	30.8	24D	SN		C	1753	.41	1.50			D
LOCK	05	1923	1932	1926	N27	W77	.967	8467	31.0	9	SF		C	1926	.30	.90		10	
HALE	05	1924	1930	1925	N30	W75	.958	8467	31.2	6	SN	1	C	1925	.31				
MCMA	05	1925	1930	1926	N28	W80	.977	8467	30.8	5	SN		C	1926	.52				E
LOCK	05	2020	2045	2025	N27	W74	.954	8467	31.3	25	SN		C	2025	.40	1.10		20	
HUAN	05	2023	2052	2033	N28	W79	.974	8467	30.9	29	SF	2	C	2033	.57				E
HALE	05	2031	2100	2034	N30	W78	.970	8467	31.0	29	SN	1	C	2034	.36				
LOCK	05	2116	2125	2119	N27	W77	.967	8467	31.1	9	SF		C	2119	.30	.90		10	
LOCK	05	2240	2253	2245	N26	W80	.978	8467	30.9	13	SF		C	2245	.40	1.20		10	
HALE	05	2242	2250	2244	N28	W81	.981	8467	30.9	8	SN	1	C	2244	.26				
LOCK	05	2332	2351	2340	N26	W80	.978	8467	31.0	19	SF		C	2340	.40	1.20		10	
MITK	06	0329	0343	0331	N22	E90	.999	8496	12.9	14	1F		C	0331	.83				
MITK	06	0420	0423	0421	N22	E90	.999	8496	12.9	3	1F		C	0421	1.13				
MANI	06	0422E	0426D		N21	E85	.992	8496	12.6	4D	SN				.36	1.00			
ISTA	06	0750E	0820		N21	E88	.997	8496	12.9	30D	S								
KAND	06	0810E	1045		N22	E83	.987	8496	12.6	155D	□								
ARCE	06	0825E	0840D		N32	E86	.992	8497	12.8	15D	SF		C	0825	.26	1.10			
ARCE	06	0855E	0910D		N29	W90	.998	8467	30.6	15D	SF		C	0900	.32	1.80			
ARCE	06	0950E	1005D		N24	E88	.997	8496	13.0	15D	1N		C	0950	.58	2.90			
ARCE	06	0950E	1005D		N27	W86	.993	8467	31.0	15D	SN		C	0955	.45	1.90			
HUAN	06	1220	1232	1221	N28	W88	.996	8467	30.9	12	SF	2	C	1221	.21				D

SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 SEPT	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
HUAN	06	1453	1505		N22	E80	.978	8496	12.6	12	SF	1	C	1455	.21				D
MCMA	06	1453	1516	1454	N22	E80	.978	8496	12.6	23	SN		C	1454	.26				D
HALE	06	1632	1646	1641	N23	E76	.963	8496	12.4	14	SN	3	C	1641	.21				
MCMA	06	1739E	1740D		N34	E78	.970	8497	12.6	1D	SF		P	1739	.62				E
HALE	06	1941	1959	1946	N23	E75	.958	8496	12.4	18	SN	2	C	1946	.21				
HALE	07	0309	0314	0311	N24	E66	.908	8496	12.1	5	SN	1	C	0311	.10				
ARCE	07	0840	0855D	0850	N28	E46	.744	8491	10.8	15D	SF		C	0850	.74	1.10			EC
ARCE	07	0850E	0915D		N22	E67	.914	8496	12.4	25D	SN		C	0850	.32	.70			D
CAPS	07	1258E	1306		N21	W64	.892	8474	2.7	8D	SF	3		1259	.30			150	D
MCMA	07	1258	1305	1300	N22	E65	.900	8496	12.4	7	SN		C	1300	.26	.50			DH
ONDR	07	1259E	1303D		N23	E64	.893	8496	12.3	4D	SN		V	1259			1.70		CDH
LOCK	07	1510	1522	1516	N21	E64	.892	8496	12.4	12	SF		C	1516	.60	1.30		10	
LOCK	07	2105	2153	2125	N21	E60	.861	8496	12.4	48	1N		C	2125	1.30	2.60		20	
MCMA	07	2112E	2139D	2120	N23	E62	.878	8496	12.5	27D	1B		C	2120	1.03	2.40			EL
HUAN	07	2116	2125D		N23	E60	.863	8496	12.4	9D	SN	1	P	2122	1.13	1.75			E
HALE	07	2116	2146	2121	N24	E62	.879	8496	12.5	30	1B	1	C	2121	1.24	2.60			
LOCK	07	2315	2330	2321	N21	E56	.826	8496	12.2	15	SF		C	2321	.20	.40		10	
LOCK	08	0020	0055	0045	N21	E54	.808	8496	12.1	35	SF		C	0045	.40	.70		10	
HALE	08	0040	0048	0044	N21	E55	.817	8496	12.2	8	SF	1	C	0044	.26	.50			
HALE	08	0250	0301	0253	N22	E51	.780	8496	11.9	11	SN	1	C	0253	.26	.40			
HALE	08	0302	0320	0307	N22	E51	.780	8496	12.0	18	SN	1	C	0307	.15	.30			
ARCE	08	0913E	0926D		S22	W15	.541	8484	7.3	13D	SF		C	0915	.36	.40			H
HUAN	08	1615	1627	1620	N21	E52	.788	8496	12.6	12	SN	1	C	1620	.58	.74			E
MCMA	08	1615	1650	1620	N22	E51	.780	8496	12.5	35	1B		C	1620	1.24	2.00			ELV
LOCK	08	1650	1715	1700	N20	E51	.777	8496	12.5	25	SF		C	1700	.40	.60		10	
LOCK	08	1807	1947	1911	N20	E50	.766	8496	12.5	100	SN		C	1911	1.20	1.90		20	
MCMA	08	1907	1940	1910	N22	E51	.780	8496	12.6	33	SB		C	1910	1.03	1.60			EV
HUAN	08	1916E	1920D		N21	E52	.788	8496	12.7	4D	SN	1	P	1916	.62	.79			E
HUAN	08	2003E	2006D		N36	E51	.815	8497	12.7	3D	SF	1	P	2005	.31	.42			D
MCMA	08	2003	2011	2006	N36	E52	.823	8497	12.7	8	SN		C	2006	.41	.70			D
LOCK	08	2328	2335D	2335	S19	W26	.597	8484	7.0	7D	SF		C	2335	.40	.50		10	
HALE	08	2333	0005	2337	S20	W24	.589	8484	7.2	32	SN	1	C	2337	.41	.50			
LOCK	08	2344	0020	2355	N20	E50	.766	8496	12.7	36	1N		C	2355	1.40	2.20		20	
HALE	08	2345	0016	2356	N23	E48	.751	8496	12.6	31	SB	1	C	2356	.72	1.10			
LOCK	09	0028	0046	0033	N23	E48	.751	8496	12.6	18	SF		C	0033	.80	1.20		10	
HALE	09	0143	0203	0144	S18	W26	.588	8484	7.1	20	SF	1	C	0144	.21	.30			
HALE	09	0210	0234	0212	S18	W28	.608	8484	7.0	24	SF	1	C	0212	.10	.11			
HALE	09	0325	0400	0330	S18	W28	.608	8484	7.0	35	SF	1	C	0330	.10	.11			
ISTA	09	0720	0735		S15	W45	.764	8484	5.9	15	S								
MONT	09	0721	0745		S22	W28	.644	8484	7.2	24	SB		C			2.00			
KAND	09	0726	0747		S22	W24	.609	8484	7.5	21	SN								
CAPS	09	0730E	0740D		S24	W20	.600	8484	7.8	10D	SF	2							
KAND	09	0820	1006		S20	W30	.645	8484	7.1	106	SN								
ARCE	09	1328	1350D	1333	S23	W24	.620	8484	7.8	22D	SN		C	1333	.35	.40			C
ARCE	09	1350	1420D		S20	W35	.694	8484	7.0	30D	SN		C	1415	1.12	1.50			C
MCMA	09	1422	1505	1434	S22	W35	.708	8484	7.0	43	SB		C	1434	.31	.40			EK
HUAN	09	1428	1456		S20	W36	.703	8484	6.9	28	SN	1	C	1436	.41	.48			E
CAPS	09	1436E	1459		S21	W34	.691	8484	7.1	23D	SN	3		1437	.40	.60		166	
HALE	09	1727	1737	1727	N22	E31	.549	8496	12.1	10	SN	3	C	1727	.31	.40			E
LOCK	09	1934	1952	1937	N22	E32	.562	8496	12.2	18	SN		C	1937	.60	.70		10	
HALE	09	1937E	1955		N22	E30	.537	8496	12.1	18D	SN	2	P	1937	.26	.30			E
HALE	09	1950	2000	1955	S19	W36	.696	8484	7.1	10	SF	1	C	1955	.31	.40			
LOCK	09	2213	2250	2224	N22	E35	.599	8496	12.6	37	SN		C	2224	1.20	1.60		20	
HALE	09	2220	2242	2225	N23	E32	.567	8496	12.3	22	SN	2	C	2225	.83	1.00			
HALE	10	0212	0222D	0216	S19	W42	.755	8484	6.9	10D	SN	1	P	0216	.31	.50			
CAPS	10	0606E	0640D		N22	E31	.549	8496	12.6	34D	1N	3		0635	2.20	2.60		170	
ONDR	10	1224	1238	1235	S21	W49	.827	8484	6.8	14	SN		V	1235			1.80		CDHJ
CAPS	10	1233E	1235D		S18	W45	.778	8484	7.1	2D	SN	3							
MCMA	10	1308E	1322		S18	W22	.549	8487	8.9	14D	SF		C	1308	.52	.60			E
HUAN	10	1259	1413		N21	E31	.544	8496	12.9	74	SF	1	C	1320	.21	.22			D
MCMA	10	1300E	1435		N22	E30	.537	8496	12.8	95D	SN		C	1300	.62	.70			BFK
CAPS	10	1327E	1401D		N23	E31	.555	8496	12.9	34D	SN	3		1331	.40	.50		173	DJ
HUAN	10	1421	1431	1425	S21	W51	.843	8484	6.8	10	SN	2	C	1425	.31	.43			D
MCMA	10	1423	1430	1426	S22	W52	.855	8484	6.7	7	SB		C	1426	.31	.60			D
CAPS	10	1424E	1430D		S22	W52	.855	8484	6.7	6D	SB	3		1426	.80	1.60		208	
MCMA	10	1510	1540	1518	S22	W52	.855	8484	6.7	30	SN		C	1518	.72	1.50			EH
HUAN	10	1514	1523	1518	S21	W51	.843	8484	6.8	9	SF	2	C	1518	.25	.34			D
LOCK	10	1515E	1527	1519	S24	W53	.869	8484	6.7	12D	SN		C	1519	.40	.80		20	
MCMA	10	1607	1730	1615	N22	E30	.537	8496	12.9	83	SN		C	1615	1.03	1.20			EJ
LOCK	10	1607	1641	1624	S24	W53	.869	8484	6.7	34	SN		C	1624	.80	1.50		20	H
MCMA	10	1609	1630	1611	S22	W52	.855	8484	6.8	21	SB		C	1611	.26	.50			DHK
HUAN	10	1609	1632	1625	S21	W52	.851	8484	6.8	23	SN	1	C	1625	.50	.70			
LOCK	10	1718	1727	1723	S24	W53	.869	8484	6.7	9	SN		C	1723	.60	1.10		20	
MCMA	10	1721	1726	1723	S22	W52	.855	8484	6.8	5	SB		C	1723	.26	.50			D
HUAN	10	1721	1726	1723	S21	W53	.859	8484	6.7	5	SN	1	C	1723	.25	.35			D
LOCK	10	1800	1820	1807	S25	E22	.625	8495	12.4	20	SF		C	1807	.50	.70		10	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 SEPT	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. %	
MCMA	10	1813	1940	1830	N22	E28	.511	8496	12.9	87	1B		C	1830	1.86	2.10			F
LOCK	10	1814	1915	1834	N22	E24	.461	8496	12.6	61	1B		C	1834	3.50	3.90		30	
HUAN	10	1819	1935D		N22	E25	.473	8496	12.6	76D	1F	1	C	1837	1.88	1.92			E
MCMA	10	1942	1955	1945	S22	W53	.862	8484	6.8	13	SN		C	1945	.41	.80			EH
LOCK	10	2037	2055	2042	S24	W54	.877	8484	6.8	18	SF		C	2042	.40	.80		10	H
MCMA	10	2041	2046	2042	S22	W53	.862	8484	6.9	5	SN		C	2042	.26	.50			DH
LOCK	10	2208	2222	2214	S24	W54	.877	8484	6.9	14	SF		C	2214	.60	1.10		10	
MCMA	10	2210	2215	2212	S22	W54	.870	8484	6.9	5	SN		C	2212	.31	.60			D
LOCK	10	2242	2312	2254	S22	W52	.855	8484	7.0	30	SF		C	2254	.70	1.30		10	
CAPS	11	0737E	0744		S21	W60	.908	8484	6.8	7D	SB	3		0740	.70			201	
CAPS	11	1302E	1324		S22	E12	.523	8495	12.4	22D	SN	3		1312	1.40	1.70		160	
MCMA	11	1303E	1327	1305	S25	E11	.559	8495	12.4	24D	SN		C	1305	1.03	1.20			EH
HUAN	11	1308E	1332		S24	E11	.545	8495	12.4	24D	SN	1	P	1308	1.38	1.45			EH
LOCK	11	1933	2000	1942	N21	E06	.258	8496	12.3	27	SF		C	1942	.30	.30		10	
LOCK	11	2100	2145	2124	N23	E08	.301	8496	12.5	45	SF		C	2124	.70	.80		10	
LOCK	11	2224	2247	2232	N23	E08	.301	8496	12.5	23	SN		C	2232	.80	.90		10	
HALE	12	0322	0350	0323	N22	E03	.260	8496	12.4	28	SB	2	C	0323	1.34	1.40			V
KAND	12	0712E	1229D		N08	E90	1.000	8505	19.0	317D	□								
ARCE	12	0825E	0840D		N06	E90	1.000	8505	19.1	15D	SN		C	0830	.23				
ONDR	12	0858	1041		N15	W90	.999		5.6	103	2B		V						ACJ
MONT	12	0925			N13	E90	1.000	8505	19.1		□		C						
ARCE	12	0930	0940	0930	N13	E80	.981	8505	18.4	10	1F		C	0930	1.44	4.60			C
ARCE	12	0950			N13	E90	1.000	8505	19.2		1N		C	0950	.74				AC
ARCE	12	0955	1015D		N18	E90	.999	8506	19.2	20D	2N		C	0955	1.38				AC
ARCE	12	1015E	1100D		N06	E90	1.000	8505	19.2	45D	1N		C	1020	.58				CY
ONDR	12	1242	1438		N36	W00	.481	8497	12.5	116	2F		V	1254			1.30		CFGHI
MCMA	12	1247	1318	1255	N36	W00	.481	8497	12.5	31	SN		C	1255	1.03	1.20			E
CAPS	12	1300E	1316D		N38	E03	.513	8497	12.8	16D	1F	3		1303	3.00	3.60		150	
ARCE	13	0845E	0910D	0900	S20	W90	1.001	8484	6.6	25D	SN		C	0900	.26				
KAND	13	0930	1020		S20	W90	1.001	8484	6.6	50	1B								
CAPS	13	1027E	1039D		N10	E85	.994	8505	19.8	12D	SF	3		1033	.20			153	
KAND	13	1155	1300		S25	W32	.705	8495	11.1	65	SF								
MONT	13	1256	1315		S39	E43	.875	8501	16.8	19	1N		C			5.00			
LOCK	13	1708	1735	1717	N23	W15	.364	8496	12.6	27	SF		C	1717	.40	.40		10	
MCMA	13	1713	1728	1715	N23	W17	.386	8496	12.4	15	SF		C	1715	.26	.30			D
LOCK	13	1808	1819	1811	N24	W11	.339	8496	12.9	11	SF		C	1811	.40	.40		10	
HUAN	13	2051	2101	2054	N06	E81	.986	8505	19.9	10	SF	1	C	2054	.25				D
HALE	13	2052	2100	2054	N06	E79	.980	8505	19.8	8	SN	1	C	2054	.21				
MCMA	13	2130	2134	2132	S18	W72	.968	8487	8.5	4	SN		C	2132	.26				D
HALE	13	2210	2220	2212	N06	E79	.980	8505	19.8	10	SN	1	C	2212	.21				
HUAN	13	2212	2218		N07	E80	.982	8505	19.9	6	SF	1	C	2214	.21				D
LOCK	13	2340	0030	2400	S24	W20	.599	8495	12.5	50	SF		C	2400	.80	1.00		10	
HALE	14	0310	0355	0314	N07	E75	.963	8505	19.8	45	1B	2	C	0314	.83				ETV
HALE	14	0402	0417D	0417D	N10	E73	.952	8505	19.6	15D	SN	2	P	0417	.31				T
ARCE	14	0940E	0950D	0940	N05	E73	.954	8505	19.9	10D	SN		C	0940	.61	1.50			EC
KAND	14	1014	1145		S20	E90	1.001		21.2	91	2B								
MONT	14	1012	1055		S19	W90	1.001	8484	7.7	43	□		C						
MERS	14	1013E	1047D	1025	S22	W90	1.001	8484	7.7	34D	□		V						A
ARCE	14	1020E			S21	W90	1.001	8484	7.7		1B		C	1020	.35				AC
KAND	14	1241	1259		N03	E71	.944	8505	19.9	18	1N								
MCMA	14	1332	1336	1333	N06	E70	.937	8505	19.8	4	SB		C	1333	.26	.70			D
CAPS	14	1333E	1335		N09	E68	.922	8505	19.7	2D	SF	3		1334				157	
CAPS	14	1354	1358		N05	E69	.931	8505	19.8	4	1F	3		1356	1.20			150	J
MCMA	14	1357	1410	1359	N06	E70	.937	8505	19.8	13	SN		C	1359	.31	.80			D
CAPS	14	1418	1424D		N06	E69	.930	8505	19.8	6D	1N	3		1420	1.00			168	FJ
MCMA	14	1418	1427	1420	N08	E70	.935	8505	19.8	9	SN		C	1420	.52	1.40			E
HUAN	14	1509	1514	1511	S23	W27	.645	8495	12.6	5	SF	2	C	1511	.37	.42			E
LOCK	14	1510E	1515	1510U	S24	W27	.654	8495	12.6	5D	SF		C	1510	.70	.90		10	
HALE	14	1613E	1659	1618	N04	E70	.938	8505	19.9	46D	SN	2	P	1618	.21				T
HALE	14	1640	1725	1706	N05	E64	.896	8505	19.5	45	1B	3	C	1706	.93				TEF
MCMA	14	1658	1702D	1700	N06	E70	.937	8505	20.0	4D	SN		C	1700	.26	.70			D
HUAN	14	1705E	1718		N04	E66	.912	8505	19.7	13D	SN	1	P	1707	.72				E
HALE	14	1706	1713	1707	N11	E71	.940	8505	20.0	7	SN	3	C	1707	.41				
HALE	14	1739	1821	1802	N05	E64	.896	8505	19.5	42	SN	2	C	1802	.26				T
HALE	14	1825	1853	1831	N06	E64	.895	8505	19.6	28	SB	2	C	1831	.52				TEV
LOCK	14	1825	1905	1837	N22	W30	.537	8496	12.5	40	SN		C	1837	1.10	1.30		20	
HALE	14	1827	1856	1841	N23	W30	.543	8496	12.5	29	SN	1	C	1841	1.44	1.70			
HALE	14	2021	2039	2026	N05	E63	.888	8505	19.6	18	SN	1	C	2026	.41	.90			T
HUAN	14	2032E	2036D		N04	E64	.897	8505	19.7	4D	SF	1	P	2033	.50	.78			D
LOCK	14	2050	2123	2100	S30	E20	.668	8501	16.4	33	SF		C	2100	.50	.70		10	
HALE	14	2148	2245	2154	N06	E63	.887	8505	19.6	57	SN	1	C	2154	.62	1.40			T
LOCK	14	2338	0002	2349	N21	E64	.892	8506	19.8	24	SN		C	2349	.80	1.70		10	
LOCK	15	0034	0045	0037	N06	E59	.853	8505	19.4	11	SN		C	0037	.40	.80		10	
LOCK	15	0047	0118D	0055	S28	E15	.617	8501	16.2	31D	SN		C	0055	1.00	1.30		20	
HALE	15	0049	0108	0053	S26	E14	.586	8501	16.1	19	SN	1	C	0053	.62	.80			F

SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 SEPT	START	END	MAX. PHASE	APPROX. LAT.	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. ~	
MANI	15	0052E	0057D		S18	E17	.504	8501	16.3	5D	SN			0052	.62	.66			
HALE	15	0110	0135	0116	S28	E15	.617	8501	16.2	25	SN	1	C	0116	.41	.50			F
HALE	15	0203	0225	0208	S26	E11	.572	8501	15.9	22	SN	1	C	0208	.52	.60			F
HALE	15	0256	0304	0257	N05	E57	.836	8505	19.4	8	SN	1	C	0257	.21	.40			
MANI	15	0308E	0316D		N22	E90	.999	8509	21.9	8D	SN			0308	.35	1.13			
HALE	15	0338	0347	0339	N05	E57	.836	8505	19.4	9	SN	1	C	0339	.31	.60			
MANI	15	0436E	0451D		N21	W38	.632	8496	12.3	15D	SF				.36	.47			
ARCE	15	0800E	1000D		N22	W40	.660	8496	12.3	120D	SN		C	0810	.67	.90			H
HUAN	15	1440	1448	1444	N20	E80	.979	8509	21.6	8	SF	1	C	1444	.25				D
LOCK	15	1515	1535	1520	N21	W42	.680	8596	12.5	20	SF		C	1520	.80	1.10		10	
HUAN	15	1517	1530D		N21	W40	.656	8496	12.6	13D	SF	2	C	1521	.36	.40			E
MCMA	15	1519	1530	1521	N20	W40	.653	8496	12.6	11	SF		C	1521	.26	.30			D
LOCK	15	1605	1635	1623	N22	E80	.978	8505	21.7	30	SF		C	1623	.40	1.20		10	
HALE	15	1616	1639	1625	N21	E76	.963	8509	21.4	23	SB	1	C	1625	.41				
HUAN	15	1621	1635		N20	E80	.979	8509	21.7	14	SF	1	C	1624	.25				D
HALE	15	1802E	1819	1804	N21	W44	.703	8496	12.5	17D	SN	1	P	1804	.26	.40			
MCMA	15	1803	1810		N20	W40	.653	8496	12.8	7	SF		C	1804	.26	.30			D
HALE	15	1821	1829	1822	N05	E52	.785	8505	19.7	8	SB	1	C	1822	.52	.80			
MCMA	15	1822E	1900		N07	E56	.824	8505	20.0	38D	SN		C	1822	.62	1.10			E
HALE	15	1823	1845	1825	N09	E55	.813	8505	19.9	22	SB	1	C	1825	.41	.70			
HUAN	15	1828E	1830D		N08	E58	.843	8505	20.1	2D	1F	1	P	1828	1.40	1.85			
LOCK	15	1912	1950	1920	N03	E51	.777	8505	19.6	38	SN		C	1920	.60	1.00		10	
HALE	15	1917	1925	1918	N04	E51	.775	8505	19.6	8	SN	1	C	1918	.21	.30			
MCMA	15	1919E	1927		N04	E52	.786	8505	19.7	8D	SN		C	1919	.41	.70			E
MCMA	15	1937	2030	1939	N04	E52	.786	8505	19.7	53	SN		C	1939	.41	.70			
MCMA	15			1954										1954	.26	.40			EK
MCMA	15			2022										2022	.41	.70			
LOCK	15	2019	2033	2023	N03	E51	.777	8505	19.7	14	SF		C	2023	.50	.80		10	
HALE	15	2021	2028	2024	N04	E51	.775	8505	19.7	7	SN	1	C	2024	.31	.50			
LOCK	15	2015	2030	2019	N21	W42	.680	8496	12.7	15	SF		C	2019	.50	.70		10	
MCMA	15	2053	2102		N04	E52	.786	8505	19.8	9	SN		C	2057	.41	.70			E
LOCK	15	2104	2117	2107	N06	E51	.773	8505	19.7	13	SN		C	2107	.70	1.10		10	
LOCK	15	2322	2335	2325	N05	E50	.763	8505	19.7	13	SN		C	2325	.90	1.40		20	
HALE	16	0121	0212	0125	N05	E45	.704	8505	19.4	51	SB	1	C	0125	.62	.90			TEI
HALE	16	0121	0220	0125	N09	E49	.749	8505	19.7	59	SB	1	C	0121	.98	1.50			TE
MANI	16	0132E	0200	0137	N04	E49	.753	8505	19.7	28D	2N			0137	3.51	5.20			
MITK	16	0239	0254	0240	N21	E70	.932	8509	21.4	15	SN		C	0240	.62				D
HALE	16	0250	0420D	0255	N05	E46	.717	8505	19.6	90D	SN	1	P	0255	.41	.60			TIF
MITK	16	0427	0449	0446	N05	E47	.729	8505	19.7	22	SN		C	0446	1.34	1.90			E
ISTA	16	0705	0725		N06	E45	.703	8505	19.7	20	S								
KAND	16	0714	1330D		N03	E45	.707	8505	19.7	376D	SF								
MANI	16	0715E	0733D		N04	E48	.741	8505	19.9	18D	SF			0716	.52	.78			
ARCE	16	0822E	0828D		N05	E42	.667	8505	19.5	6D	SN		C	0822	.93	1.20			
ISTA	16	0750	0758		N21	E72	.944	8509	21.7	8	1								
KAND	16	0847E	1330D		N18	E72	.944	8509	21.8	283D	1N								
KAND	16	0912	0923		N38	W58	.871	8491	12.0	11	SB								
ARCE	16	0915	0925		N37	W45	.772	8491	13.0	10	1N		C	0915	1.40	2.20			C
KAND	16	0914	1330		N24	W51	.784	8496	12.6	256	1N			0929		2.30			
CAPS	16	1140E	1159D		N21	E70	.932	8509	21.7	19D	SN	3		1145	.20			157	D
HUAN	16	1240	1252	1244	N21	E70	.932	8509	21.8	12	SF	1	C	1244	.21				D
CAPS	16	1243E	1249D		N21	E70	.932	8509	21.8	6D	SN	2							D
MCMA	16	1243E	1310		N22	E70	.932	8509	21.8	27D	SN		C	1243	.72	1.80			BELV
HUAN	16	1419	1434		N04	E40	.642	8505	19.6	15	SF	1	C	1431	1.08	1.25			E
MCMA	16	1428	1440	1431	N05	E41	.654	8505	19.7	12	SF		C	1431	.83	1.10			E
CAPS	16	1429E	1434D		N08	E40	.638	8505	19.6	5D	1F	1							
MCMA	16	1427	1500D	1435	N22	E70	.932	8509	21.9	33D	SB		C	1435	.62	1.60			DVW
MCMA	16			1440										1440	1.13	1.60			DVW
CAPS	16	1429E	1439D		N21	E70	.932	8509	21.9	10D	SB	1							
HUAN	16	1430	1441	1435	N21	E68	.920	8509	21.7	11	SB	1	C	1435	.50				DH
GNDR	16	1438E	1443D		N20	E67	.913	8509	21.6	5D	1N		V	1440			2.10		H
MCMA	16	1612	1642		N22	E69	.926	8509	21.9	30	1N		C						
MCMA	16			1627										1627	1.03	2.60			EL
MCMA	16													1630	.77	1.00			
LOCK	16	1622	1642	1627	N22	E67	.914	8509	21.7	20	1N		C	1627	1.40	3.10		20	
HALE	16	1623E	1641	1632	N22	E63	.886	8509	21.4	18D	SN	1	P	1632	.36	.80			TE
HUAN	16	1625	1639		N22	E67	.914	8509	21.7	14	SN	1	C	1633	.31				D
LOCK	16	1615	2215	1710	N04	E36	.587	8505	19.4	360	2B		C						L
LOCK	16			1845										1845	4.10	5.30		30	
LOCK	16			2110															
HALE	16	1623	2120	1702	N05	E34	.557	8505	19.2	297	SB	1	C	1702	1.24	1.50			TFIJL
HUAN	16	1640	1725D		N03	E35	.575	8505	19.3	45D	1F	1	P	1700	1.70	1.85			E
MCMA	16	1640	2148D	1702	N06	E40	.639	8505	19.7	308D	1N		C	1702	1.86	2.40			FKLU
MCMA	16	1640	2148D	1812	N06	E40	.639	8505	19.7	308D				1812	2.37	3.00			
HUAN	16	1800E	1940D		N02	E37	.605	8505	19.5	100D	SN	1	P	1820	1.29	1.41			
MCMA	16	1740	1838	1744	N22	E68	.920	8509	21.8	58	1B		C	1744	.52	1.30			EV
MCMA	16			1828										1828	1.55	3.70			EV
MALE	16	1818	1840	1821	N22	E66	.907	8509	21.7	22	1N	1	C	1821	.83				T
MUAN	16	1824	1836		N22	E67	.914	8509	21.8	12	SB	1	C	1828	.74	1.22			
LOCK	16	1830E	1840	1830U	N22	E67	.914	8509	21.8	10D	1N		C	1830	1.00	2.20		20	

SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 SEPT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
HALE	16	1927	1938	1929	N21	E66	.907	8509	21.8	11	SN	1	C	1929	.46				TF
LOCK	16	1935	2005	1941	N24	W58	.847	8496	12.5	30	1N		C	1941	1.30	2.30		20	
HALE	16	1936	2000	1941	N24	W55	.821	8496	12.7	24	SF	1	C	1941	.62	1.10			F
HUAN	16	1938	1951		N24	W58	.847	8496	12.5	13	SN	1	C	1941	.70	.98			E
HALE	16	1945	2142	1955	N22	E62	.878	8509	21.5	117	SN	1	C	1955	.31	.70			TFK
LOCK	16	2035	2053	2043	N22	E67	.914	8509	21.9	18	SF		C	2043	.70	1.50		10	H
LOCK	16	2058	2115	2102	N21	E64	.893	8509	21.7	17	SN		C	2102	.50	1.10		10	
MCMA	16	2118	2148D	2129	N27	E90	.998		23.6	30D	1B		C	2129					A
HUAN	16	2207	2210D		N22	W60	.862	8496	12.4	3D	SF	1	P	2210	.37	.54			D
HALE	16	2258	2356D	2330	N22	E63	.886	8509	21.7	58D	SF	1	P	2330	.62	1.40			T
LOCK	16	2330	0018	2350	N04	E34	.559	8505	19.5	48	SN		C	2350	.90	1.10		10	
HALE	17	0109	0135	0111	N21	E62	.877	8509	21.7	26	SF	1	C	0111	.52	1.10			
HALE	17	0238	0301	0251	N04	E29	.485	8505	19.3	23	SN	1	C	0241	.21	.22			
KAND	17	0650E	1020D		N18	E58	.843	8509	21.6	210D	SN								
KAND	17	0650E	1020D		N25	W65	.901	8496	12.4	210D	3B			1016		13.30			
ISTA	17	0830	0845		N07	E30	.496	8505	19.6	15	S								
ISTA	17	0835	0905		N22	E61	.870	8509	21.9	30	1								
ISTA	17	0835	0925		N21	E59	.853	8509	21.8	50	1								
ARCE	17	0945	1030D	1008	N24	W63	.887	8496	12.7	45D	2N		C	1008	3.03	6.70			CF
ONDR	17	0958E	1038		N24	W60	.864	8496	12.9	40D	2F		V	1000			2.50		BFH
CAPS	17	1022E	1138D		N24	W68	.921	8496	12.3	76D	2B	2		1028	3.00			265	
CAPS	17	1119E	1138D		N04	E29	.485	8505	19.6	19D	SN	2		1121	.20	.30		165	G
LOCK	17	1654	1705	1658	N03	E26	.442	8505	19.7	11	SF		C	1658	.50	.60		10	
LOCK	17	1800	1830	1810	N21	E55	.817	8509	21.9	30	SF		C	1810	.60	1.00		10	
HUAN	17	2034	2116		N21	E55	.817	8509	22.0	42	SF	1	C	2045	.37	.40			E
LOCK	17	2040	2105	2048	N09	E20	.340	8505	19.4	25	SN		C	2048	1.20	1.30		20	
HALE	17	2045	2056	2049	N10	E18	.309	8505	19.2	11	SB	1	C	2049	.83	.90			I
HUAN	17	2046	2056	2048	N10	E21	.358	8505	19.4	10	SN	1	C	2048	.62	.62			E
LOCK	17	2133	2146	2140	N09	E20	.340	8505	19.4	13	SF		C	2140	.50	.60		10	
HALE	17	2159	2209	2203	N10	E18	.309	8505	19.3	10	SF	1	C	2203	.52	.52			I
LOCK	17	2159	2212	2204	N09	E20	.340	8505	19.4	13	SF		C	2204	.60	.70		10	
HALE	17	2215	2225	2218	N22	W71	.938	8496	12.6	10	SB	1	C	2218	.36				
HALE	17	2316	2327	2317	N22	W71	.938	8496	12.6	11	SB	1	C	2317	.41				
LOCK	17	2337	0017	2359	N08	E19	.323	8505	19.4	40	SN		C	2359	1.50	1.70		20	
HALE	17	2340	0025	2345	N08	E26	.435	8505	19.9	45	SB	1	C	2345	.93	1.00			IJ
HALE	17	2356	0012	2359	N10	E18	.309	8505	19.3	16	SB	1	C	2359	1.44	1.50			EIT
HALE	18	0017	0025	0021	N22	W73	.949	8496	12.5	8	SF	1	C	0021	.21				
HALE	18	0200	0205	0202	N24	W75	.958	8496	12.5	5	SN	1	C	0202	.26				
HALE	18	0234	0242	0235	N04	E18	.312	8505	19.5	8	SN	1	C	0235	.21	.22			
HALE	18	0234	0300	0241	N10	E18	.309	8505	19.5	26	SB	1	C	0241	.46	.50			E
HALE	18	0257	0423D	0415	N22	E47	.739	8509	21.6	86D	SB	2	P	0415	1.13	1.70			KF
HALE	18	0307	0311	0308	N04	E18	.312	8505	19.5	4	SN	1	C	0308	.21	.22			
HALE	18	0314	0353	0319	N05	E17	.293	8505	19.4	39	SB	1	C	0319	.72	.80			E
MANI	18	0404E	0423D	0411	N21	E48	.747	8509	21.8	19D	SN			0411	.83	1.30			
ISTA	18	0805	0820		N21	E48	.747	8509	21.9	15	S								
KAND	18	0833	0934		N20	E43	.689	8509	21.6	61	1N			0845		2.20			
WEND	18	0845E	0913		N22	E45	.717	8509	21.7	28D	1N				4.13				
MANI	18	0900E	0924D	0908	N21	E45	.714	8509	21.8	24D	1N			0908	2.27	3.50			
MCMA	18	1258	1304	1259	N09	E11	.192	8505	19.4	6	SN		C	1259	.62	.63			EH
CAPS	18	1259E	1302D		N11	E18	.312	8505	19.9	3D	SN	3		1300	.80	.80		176	C
MCMA	18	1340E	1350D		N29	W79	.974	8496	12.6	10D	SF		C	1344	.31				D
MCMA	18	1452	1610	1500	N23	E42	.686	8509	21.8	78	1B		C	1500	2.48	3.50			EH
CAPS	18	1454E	1522		N23	E44	.709	8509	21.9	28D	1B	3		1502	2.30	3.20		354	C
MCMA	18	1516	1550	1528	N06	E13	.224	8505	19.6	34	SN		C	1528	.31	.32			DL
CAPS	18	1518E	1535		N08	E15	.257	8505	19.8	17D	SF	3		1524	1.00	1.10		150	C
MCMA	18	1944	2001	1948	N21	E41	.668	8509	21.9	17	SN		C	1948	.52	.70			E
HALE	18	1945	1954	1947	N22	E39	.648	8509	21.7	9	SB	1	C	1947	.62	.80			
HALE	18	2032	2040	2034	N11	E12	.216	8505	19.8	8	SB	2	C	2034	.26	.30			
HALE	18	2314	2323	2317	N20	E28	.500	8509	21.1	9	SN	1	C	2317	.46	.50			
HALE	18	2351	2354D	2353	N07	E09	.155	8505	19.7	3D	SB	1	P	2353	.36	.40			E
HALE	19	0127	0259D	0157	N30	E11	.424	8506	19.9	92D	SN	1	C	0157	1.24	1.40			
HALE	19	0204	0213	0208	N20	E36	.604	8509	21.8	9	SN	1	C	0208	.36	.50			T
HALE	19	0222	0252	0231	N07	E03	.052	8505	19.3	30	SN	1	C	0231	.31	.32			
KAND	19	0700	0707		N07	E03	.052	8505	19.5	7	SF								
ONDR	19	0745E	0757		N33	W85	.990	8497	12.9	12D	SB		V	0750			3.20		CD
ISTA	19	0745E	0800		N30	W90	.998	8497	12.6	15D	S								
KAND	19	0745	0804		N23	W90	.999	8496	12.6	19	SN								
ISTA	19	0825	0830		N09	E07	.125	8505	19.9	5	1								
MANI	19	0828	0837	0830	N09	E06	.108	8505	19.8	9	SN			0830	.72	.73			
ISTA	19	0837	0900D		N22	E33	.575	8509	21.8	23D	1								
MANI	19	0840	0904	0844	N20	E36	.604	8509	22.1	24	SN			0844	.62	.77			
ONDR	19	0842E	0855D		N21	E33	.570	8509	21.8	13D	SN		V	0843			1.70		CDH
KAND	19	0850E	1233		N20	E36	.604	8509	22.1	223D	SN								
KAND	19	0850E	1233		N06	E05	.089	8505	19.7	223D	SN								
KAND	19	0940	1233		N23	W90	.999	8496	12.7	173	SN								
KAND	19	0946	1011		N22	W90	.999	8496	12.7	25	SN								
CAPS	19	0949E	1002D		N19	W90	.999	8496	12.7	13D	1N	1		0956	.50			170	

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OBSERVATORY	OBSERVED UT DATE 1966 SEP	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
ONDR	19	0950E	1008D		N29	W90	.998	8497	12.7	18D	1N		V				1.90		AC
ONDR	19	1203E	1254	1212	N23	E29	.531	8509	21.7	51D	2B		V	1212			4.10		CFHLR
MCMA	19	1207E	1255		N23	E28	.519	8509	21.6	48D	2B		C	1218	5.16	6.10			FL
MCMA	19	1323E	1348		N31	W88	.996	8497	13.0	25D	SN		C	1324	.52				D
ARCE	19	1335E	1352D		N33	W88	.995	8497	13.0	17D	1N		C	1343	1.11				H
HUAN	19	1503	1508D		N11	E01	.069	8505	19.7	5D	SF	1	P	1505	.21	.21			D
SACP	19	1641	1829	1810	N24	E19	.420	8509	21.1	108	1N		C		3.07	3.09			
HALE	19	1803E	1850	1814	N25	E25	.497	8509	21.6	47D	1B	1	P	1814	2.78	3.20			TF
MCMA	19	1807E	1827		N23	E28	.519	8509	21.9	20D	SN		C	1807	.83	1.00			EH
SACP	19	1840	1901	1854	N10	W00	.050	8505	19.8	21	1N		C		2.23	2.20			
HALE	19	1926	1943	1938	N22	E27	.500	8509	21.8	17	SN	1	C	1938	.21	.22			T
HALE	19	2111	2318	2122	N21	E25	.467	8509	21.8	127	SN	1	C	2122	.52	.60			TK
HALE	19			2206					21.8					2206	.41	.50			T
HALE	19			2252					21.8					2252	.41	.50			T
HUAN	19	2206E	2210D		N21	E26	.480	8509	21.9	4D	SF	1	P	2207	.37	.38			D
HALE	19	2225	2247	2230	N25	E15	.389	8509	21.1	22	SF	1	C	2230	.15	.20			
HALE	19	2318	2320D	2318	N23	E20	.421	8509	21.5	2D	SN	1	P	2318	.41	.50			FV
HALE	19	2135	2345	2159	N09	W07	.125	8505	19.4	130	1B	1	C	2259	2.37	2.40			F
SACP	19	2153	2242	2159	N06	W08	.140	8505	19.3	49	1N		C		3.87	3.79			
HUAN	19	2206E	2210D		N09	W08	.142	8505	19.3	4D	1F	1	P	2207	2.27	2.28			
HALE	19	2225	2320D	2253	N10	W03	.072	8505	19.7	55D	SB	1	P	2253	1.24	1.24			
HALE	19	2338E	2400D	2338E	N09	W03	.061	8505	19.8	22D	SN	2	P	2338	.31	.32			
HALE	19	2338E	2400D	2400D	N22	E22	.437	8509	21.6	22D	SN	1	P	2400	1.75	2.00			F
MITK	19	2347	0010	2349	N22	E22	.437	8509	21.6	23	1N		C	2349	2.17	2.40			E
MITK	20	0021	0038	0022	N22	E23	.449	8509	21.7	17	1B		C	0022	3.71	4.20			
HALE	20	0025E	0045		N25	E22	.463	8509	21.7	20D	SB	1	C	0025	1.34	1.50			FI
MITK	20	0040	0108	0053	N24	E22	.454	8509	21.7	28	1N		C	0053	3.61	4.00			E
HALE	20	0041	0105	0045	N25	E20	.441	8509	21.5	24	SN	1	C	0045	.31	.32			
HALE	20	0110	0132	0112	N21	E23	.442	8509	21.8	22	SN	2	C	0112	.83	.90			
MITK	20	0110	0135	0113	N21	E24	.455	8509	21.8	25	1N		C	0113	1.86	2.10			
MITK	20	0222E	0231		N21	E24	.455	8509	21.9	9D	SN		V						
HALE	20	0222	0236	0223	N22	E23	.449	8509	21.8	14	SB	2	C	0223	.41	.50			
HALE	20	0248	0255	0250	N23	E10	.318	8509	20.9	7	SN	2	C	0250	.31	.32			
MITK	20	0255E	0323D		N24	E20	.431	8509	21.6	28D	2F		V						
HALE	20	0255	0330	0257	N24	E16	.388	8509	21.3	35	1B	2	P	0257	2.27	2.50			FI
HALE	20	0332	0415	0337	N09	W09	.158	8505	19.5	43	1B	2	C	0337	3.20	3.20			FI
MITK	20	0347E	0400D		N00	W10	.212	8505	19.4	13D	SN		V						
MITK	20	0506	0511		N21	E22	.429	8509	21.9	5	SF		V			.52			
WEND	20	0636E	0655D		N23	E21	.433	8509	21.9	19D	1N				3.09				
ONDR	20	0640E	0655		N23	E23	.457	8509	22.0	15D	SB		V	0645			1.80		DH
ONDR	20	0823E	0840	0827	N25	E20	.441	8509	21.8	17D	1B		V	0827			5.30		CHJ
MONT	20	0824	0900		N21	E20	.404	8509	21.9	36	2N		C			2.50			
ARCE	20	0825	0845	0827	N23	E19	.410	8509	21.8	20	2N		C	0827	5.57	6.10			HFC
CAPS	20	0827E	0840		N22	E19	.400	8509	21.8	13D	SB	2		0835	1.00	1.10		228	C
ONDR	20	0848	0928	0900	N30	E18	.476	8509	21.7	40	2F		V	0900			2.00		CFHJL
WEND	20	0850	0909		N22	E18	.389	8509	21.7	19	1N				3.09				
WEND	20	0851	0920D		N29	E19	.474	8509	21.8	29D	1N				5.16				
ARCE	20	0853	0920	0900	N26	E17	.421	8509	21.6	27	SN		C	0900	1.62	1.80			HC
MONT	20	0855	1010		N22	E21	.425	8509	21.9	75	2B		C			2.50			
WEND	20	0929	1004		N22	E21	.425	8509	22.0	35	1N				3.09				
ONDR	20	0932	1012		N09	W17	.291	8505	19.1	40	SN		V	0947			1.90		CDEJ
WEND	20	0934	1005D		N08	W13	.224	8505	19.4	31D	1N				3.09				
ARCE	20	0935	1000D	0945	N07	W15	.257	8505	19.3	25D	SN		C	0945	.51	.50			DC
CAPS	20	0942E	0952D		N07	W16	.274	8505	19.2	10D	SN	1							
MONT	20	1035	1110		N20	E19	.382	8509	21.9	35	SB		C			1.00			
WEND	20	1036E	1050		N22	E20	.412	8509	21.9	14D	1N				3.09				
ONDR	20	1040E	1049		N23	E20	.422	8509	21.9	9D	SN		V	1040			2.00		CDJ
WEND	20	1046	1136		N10	W14	.244	8505	19.4	50	3B				14.95				
MONT	20	1048	1120		N08	E11	.190	8505	21.3	32	2B		C			5.00			
ONDR	20	1053E	1125	1059	N09	W18	.308	8505	19.1	32D	2N		V	1059			2.50		CFJ
WEND	20	1116	1146		N22	E54	.809	8514	24.5	30	1N				3.09				
WEND	20	1129	1231D		N18	E44	.697	8514	23.8	62D	1N				3.09				
WEND	20	1224	1242		N07	W08	.138	8505	19.9	18	1N				3.09				
WEND	20	1229	1300		N23	E19	.410	8509	21.9	31	1N				3.09				
CAPS	20	1248E	1257D		N24	E19	.420	8509	22.0	9D	SB	1		1249	1.00	1.10		216	
ONDR	20	1249E	1255		N23	E19	.410	8509	22.0	6D	SN		V	1250			2.80		CDJ
WEND	20	1310E	1338		N14	E16	.295	8509	21.7	28D	1N				3.09				
WEND	20	1316	1339		N23	E18	.399	8509	21.9	23	1N				3.09				
WEND	20	1324	1336		N18	W50	.764	8511	16.8	12	1N				3.09				
ARCE	20	1330E			N18	W52	.785	8511	16.7		SN		C	1330	.38	.60			
ARCE	20	1330E	1345		N24	E15	.377	8509	21.7	15D	SN		C	1330	.55	.60			D
SACP	20	1336	1422	1350	N22	E17	.377	8509	21.8	46	SF		C		1.29	1.28			
ONDR	20	1405	1420	1414	N23	E18	.399	8509	21.9	15	SB		V	1414			3.20		CDHJR
WEND	20	1407	1420		N22	E18	.389	8509	21.9	13	1N				3.09				
HUAN	20	1411	1419	1413	N21	E18	.379	8509	21.9	8	SN	2	C	1413	.31	.31			E
CAPS	20	1413E	1417D		N22	E18	.389	8509	21.9	4D	SF	1		1416	.40	.40		160	
ARCE	20	1415E	1430D		N22	E15	.354	8509	21.7	15D	SN		C	1415	.32	.30			DH
WEND	20	1447	1507		N22	E18	.389	8509	22.0	20	1N				4.13				
ARCE	20	1450	1500D	1450	N21	E18	.379	8509	22.0	10D	SN		C	1450	1.28	1.40			C

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 SEPT	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
ONDR	20	1451E	1455D		N22	E15	.354	8509	21.7	4D	1N		V	1454			2.40		CJ
ARCE	20	1515	1530D	1520	N22	E15	.354	8509	21.8	15D	SN		C	1520	.99	1.10			C
WEND	20	1522	1545D		N24	E14	.368	8509	21.7	23D	1N				3.09				
WEND	20	1603	1624		N22	E17	.377	8509	21.9	21	1N				3.09				
LOCK	20	1738E	2100	1805	N03	W15	.267	8505	19.6	202D	2B		C	1805	7.00	7.00		30	
SACP	20	1801E	2125D	1804U	N05	W15	.260	8505	19.6	204D	2B		P		11.69	11.48			
HUAN	20	1803E	1905D		N07	W13	.223	8505	19.8	62D	2N	1	S						H
HALE	20	1851E	2045		N06	W14	.241	8505	19.7	114D	2N	2	P	1851	8.25	8.50			BFIZ
LOCK	20	2110	2125	2114	N10	W20	.342	8505	19.4	15	SN		C	2114	.30	.30		10	
LOCK	20	2308	2317	2312	N22	E13	.333	8509	21.9	9	SN		C	2312	.20	.20		10	
LOCK	20	2344	0005	2348	N19	W56	.825	8511	16.8	21	SN		C	2348	.60	1.10		10	
HALE	20	2349	0015	2350	N19	W57	.834	8511	16.7	26	SN	2	C	2350	.41	.70			
LOCK	20	2347	2357	2350	N22	E13	.333	8509	22.0	10	SN		C	2350	.50	.70		20	
HALE	20	2350	2354	2351	N22	E12	.323	8509	21.9	4	SN	2	C	2351	.31	.32			
LOCK	21	0050	0103	0053	N21	E06	.260	8509	21.5	13	SN		C	0053	.70	.70		10	
MITK	21	0051	0058	0053	N21	E05	.254	8509	21.4	7	SF		C	0053	.52	.52			D
HALE	21	0147	0151	0149	N10	W19	.326	8505	19.6	4	SF	1	C	0149	.41	.42			T
HALE	21	0204	0209	0205	N03	W18	.315	8505	19.7	5	SF	1	C	0205	.31	.32			T
HALE	21	0204	0213	0205	N03	W18	.315	8505	19.7	9	SF	1	C	0205	.41	.42			T
HALE	21	0243	0248	0245	N22	E08	.289	8509	21.7	5	SN	1	C	0245	.21	.22			T
HALE	21	0315	0325	0319	N10	W19	.326	8505	19.7	10	SN	1	C	0319	.46	.50			T
HALE	21	0346	0356	0350	N21	E08	.274	8509	21.8	10	SN	1	C	0350	.21	.22			T
MITK	21	0415	0426	0419	N23	E08	.304	8509	21.8	11	SN		C	0419	.93	1.00			E
ARCE	21	0930E	1000D		N23	E78	.971	8516	27.2	30D	1F		C	0930	1.34	4.00			
MONT	21	0929	1010		N21	E03	.245	8509	21.6	41	2N		C			5.00			
CAPS	21	0930	0959		N22	E06	.276	8509	21.8	29	SB	3		0937	1.50	1.50		260	
ONDR	21	0930E	1007	0934	N22	E05	.270	8509	21.8	37D	2B		V	0934			4.90		CH
WEND	21	0931	1000		N23	E06	.291	8509	21.8	29	1N				5.16				
ARCE	21	0945E	1000D		N21	E08	.274	8509	22.0	15D	SN		C	0945	1.66	1.70			
ARCE	21																		
ARCE	21	0945E	1000D		N21	W01	.241	8509	21.3	15D	SB		C	0945	.58	.60			Z
WEND	21	1002	1030		N09	W25	.420	8505	19.5	28	1N				3.09				
WEND	21	1002	1032		N23	E07	.297	8509	21.9	30	1N				3.09				
MONT	21	1020			N22	E05	.270	8509	21.8		SN		C			2.00			
WEND	21	1022	1046		N23	E77	.967	8516	27.2	24	1N				4.13				
CAPS	21	1027E	1033		N22	E80	.979	8516	27.4	6D	1N	3		1029	.70			170	
ONDR	21	1029	1039		N25	E80	.978	8516	27.4	10	SF		V	1031			1.60		CD
LOCK	21	1641	1651	1646	N22	E78	.971	8516	27.5	10	SF		C	1646	.30	.80		10	
LOCK	21	1645	1656	1649	N42	E60	.892	8516	26.2	11	SF		C	1649	.40	.80		10	
LOCK	21	1649	1708	1653	N22	E03	.262	8509	21.9	19	SB		C	1653	.40	.40		30	H
SACP	21	1811	2033	1832	N27	E40	.680	8514	24.8	142	1N		C		3.75	4.32			
LOCK	21	1814	2005	1831	N25	E41	.682	8514	24.8	111	1N		C	1831	3.10	4.30		20	L
SACP	21	1830	1911	1848	N23	W00	.274	8509	21.8	41	SF		C		.86	.83			
LOCK	21	1833	1910	1848	N23	W01	.275	8509	21.7	37	SB		C	1848	.70	.70		30	H
SACP	21	1912	1945	1932	N23	W01	.275	8509	21.7	33	SF		C		.60	.58			
LOCK	21	1914	1943	1919	N23	W01	.275	8509	21.7	29	SN		C	1919	.70	.70		20	
LOCK	21			1929										1929	.70	.70		20	
HUAN	21	1933E	1935D		N22	W01	.258	8509	21.7	2D	SF	1	P	1933	.25	.25			D
LOCK	21	1958	2030	2008	N23	W01	.275	8509	21.8	32	SN		C	2008	1.00	1.00		20	H
MALE	21	2010E	2018	2011	N24	W01	.291	8509	21.8	8D	SN	1	C	2011	.31	.32			T
LOCK	21	2051	2106	2055	N23	W04	.282	8509	21.6	15	SN		C	2055	.60	.60		20	
MALE	21	2051	2110	2054	N22	W04	.266	8509	21.6	19	SN	1	C	2054	.21	.22			T
LOCK	21	2105	2135	2113	N23	W01	.275	8509	21.8	30	SN		C	2113	.80	.80		20	H
SACP	21	2106	2144	2113	N24	W02	.293	8509	21.7	38	SF		C		1.02	1.00			
HALE	21	2108	2119	2113	N24	W02	.293	8509	21.7	11	SN	1	C	2113	.41	.42			T
LOCK	21	2216	2250	2219	N23	W01	.275	8509	21.9	34	SN		C	2219	.30	.30		20	H
SACP	21	2322	2350D	2327	N09	W34	.555	8505	19.4	28D	1N		P		2.23	2.37			
LOCK	21	2325	0005	2332	N11	W34	.556	8505	19.4	40	SN		C	2332	1.20	1.40		20	
HALE	21	2327	2355D	2331	N10	W34	.555	8505	19.4	28D	SN	1	P	2331	.72	.90			T
MANI	21	2331	2352		N13	W23	.397	8505	20.3	21	SF			2335	.72	.86			
LOCK	21	2325	2400	2347	N24	W05	.302	8509	21.6	35	SN		C	2347	1.00	1.10		20	
HALE	21	2333	2344	2334	N22	W13	.334	8509	21.0	11	SN	1	C	2334	.21	.22			T
SACP	21	2340	2350D	2347	N24	W07	.312	8509	21.5	10D	SN		P		1.55	1.52			
HALE	22	0020	0039	0022	N27	E71	.939	8516	27.3	19	SN	1	C	0022	.72				
HALE	22	0241	0248	0243	N11	W34	.556	8505	19.6	7	SN	1	C	0243	.52	.60			
HALE	22	0249	0307	0259	N18	W75	.959	8511	16.5	18	SN	1	C	0259	.26				
HALE	22	0322	0342	0327	N22	W16	.366	8509	20.9	20	SN	1	C	0327	.21	.22			
HALE	22	0349	0413D	0351	N18	W75	.959	8511	16.5	24D	SN	1	P	0351	.21				
ARCE	22	0930	0945	0930	N21	E64	.893	8516	27.2	15	SN		C	0930	.47	1.10			DC
ARCE	22	0935E	0945D		N18	W75	.959	8511	16.8	10D	SN		C	0940	.51	1.40			
ARCE	22	1340E	1400D		N26	E66	.909	8516	27.5	20D	SN		C	1340	.29	.60			
SACP	22	1453	1534	1501	N21	W15	.344	8509	21.5	41	SF		C		1.21	1.19			
HUAN	22	1500E	1514		N21	W15	.344	8509	21.5	14D	SF	1	P	1502	.57	.57			E
ARCE	22	1500	1530	1500	N22	W10	.305	8509	21.9	30	SN		C	1500	1.46	1.50			FC
MCMA	22	1502E	1540	1505	N21	W16	.356	8509	21.4	38D	SN		C	1505	.72	.80			E
MCMA	22	1552E	1600	1555	N23	E63	.886	8516	27.4	8D	SN		C	1555	.36	.70			EH
LOCK	22	1600	1630	1610	N36	W38	.709	8506	19.8	30	SF		C	1610	.30	.30		10	H
LOCK	22	1615	1700	1630	N02	W43	.684	8505	19.5	45	SF		C	1630	.40	.60		10	

SOLAR FLARES

SEPTEMBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 SEPT	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
HUAN	22	1623	1638	1632	N03	W40	.643	8505	19.7	15	SF	2	C	1632	.21	.23			D
LOCK	22	1651	1707	1656	N25	E58	.849	8516	27.1	16	SF		C	1656	.60	1.10		10	
MCMA	22	1655	1705	1657	N23	E61	.871	8516	27.3	10	SN		C	1657	.52	1.00			E
SACP	22	1728	1807	1743	N10	W42	.664	8505	19.6	39	SF		C		1.11	1.26			
LOCK	22	1735	1755	1741	N11	W41	.651	8505	19.7	20	SN		C	1741	.80	1.00		10	H
MCMA	22	1740	1747	1742	N05	W43	.679	8505	19.5	7	SN		C	1742	.41	.60			EH
LOCK	22	1802	1822	1817	N18	W79	.976	8511	16.8	20	SF		C	1817	.30	.90		10	
HALE	22	2126	2207D	2136	N26	E60	.866	8516	27.4	41D	SN	1	P	2136	.36	.70			
LOCK	22	2156	2210	2200	N23	E58	.847	8516	27.3	14	SN		C	2200	.50	.90		20	
HALE	22	2158E	2207D	2159	N23	E57	.838	8516	27.2	9D	SN	1	P	2159	.41	.80			
LOCK	22	2237	2249	2244	N19	W80	.979	8511	16.9	12	SF		C	2244	.30	.90		10	
LOCK	22	2247	2312	2255	N10	W48	.738	8505	19.3	25	SN		C	2255	.80	1.20		20	
HALE	22	2300E	2316D	2303	N09	W49	.749	8505	19.3	16D	SB	1	P	2303	.31	.50			
LOCK	22	2337	2344	2340	N19	E56	.825	8516	27.2	7	SF		C	2340	.30	.50		10	
LOCK	23	0010	0023D	0023	N22	E45	.718	8516	26.4	13D	SN		C	0023	.60	.90		10	
SACP	23	0030	0050	0041	N11	W46	.714	8505	19.6	20	SF		C		.88	1.04			
LOCK	23	0035	0051	0039	N24	E53	.803	8516	27.0	16	SN		C	0039	.50	.90		20	
MANI	23	0037E	0049	0040	N23	E57	.838	8516	27.3	12D	SN			0040	.52	.89			
ISTA	23	0730E	0810D		N25	E54	.814	8516	27.4	40D	S								
CAPS	23	1418	1500D		N25	E50	.777	8516	27.3	42D	SN	3		1435	1.00	1.60		160	
SACP	23	1418	1530	1450	N25	E50	.777	8516	27.3	72	1F		C		1.70	2.15			
MCMA	23	1419	1545	1421	N23	E50	.772	8516	27.3	86	SN		C	1421	.83	1.20			E
SACP	23	1444	1601	1507	N21	E27	.494	8514	25.6	77	1F		C		2.04	2.10			
MCMA	23	1457	1530	1503	N22	E26	.488	8514	25.6	33	SF		C	1503	.77	.90			E
SACP	23	1542	1601	1559	N25	E49	.767	8516	27.3	19	1F		P		2.46	3.11			
CAPS	23	1553	1600D		N25	E51	.786	8516	27.5	7D	SB	3		1556	.50	.80		200	
LOCK	23	1553	1630	1601	N23	E47	.742	8516	27.2	37	SN		C	1601	1.00	1.50		20	
MCMA	23	1553	1640	1600	N23	E50	.772	8516	27.4	47	1B		C	1600	2.06	3.20			E
HUAN	23	1600E	1627D		N24	E51	.784	8516	27.5	27D	SN	1	P	1602	1.06	1.31			E
LOCK	23	1725	1800	1740	N25	E50	.777	8516	27.5	35	SF		C	1740	.40	.60		10	
LOCK	23	1730	1750D	1750	N23	E34	.593	8516	26.3	20D	SN		C	1750	.50	.70		10	
MCMA	23	1735E	1820D	1800	N23	E50	.772	8516	27.5	45D	1B		C	1800	1.55	2.40			F
MCMA	23			1820										1820	1.86	2.90			
LOCK	23	1817	1838	1820	N23	E47	.742	8516	27.3	21	SB		C	1820	1.00	1.50		30	
HUAN	23	1818	1830	1820	N24	E48	.754	8516	27.4	12	SB	2	C	1820	1.05	1.30			
LOCK	23	1814	1840	1820	N19	W57	.835	8506	19.5	26	SF		C	1820	.70	1.30		10	
LOCK	23	1855	2010	1910	N27	E16	.424	8514	25.0	75	SF		C	1910	1.00	1.10		10	L
LOCK	23	1919	1945	1925	N24	E32	.574	8516	26.2	26	SF		C	1925	.60	.70		10	
LOCK	23	2015	2035	2022	N23	E33	.581	8516	26.3	20	SN		C	2022	.50	.60		20	
LOCK	23	2140	2205	2149	N22	E42	.684	8516	27.1	25	SN		C	2149	.70	1.00		10	
LOCK	23	2200	2220	2204	N26	E31	.575	8516	26.2	20	SF		C	2204	.30	.40		10	
LOCK	23	2351	0100	0002	N26	E14	.394	8514	25.0	69	1N		C	0002	3.50	3.90		20	L
LOCK	23	2355	0011	0001	N21	W50	.769	8506	20.2	16	SN		C	0001	.40	.60		20	H
MANI	24	0210	0225	0215	N23	E44	.709	8516	27.4	15	SB			0215	1.03	1.45			
MANI	24	0617E	0623		N04	W58	.846	8505	19.9	6D	SF			0617	.15	.27			
CAPS	24	1409	1414		N28	E34	.621	8516	27.1	5	SF	3							D
HUAN	24	1412	1435		N19	W57	.835	8506	20.3	23	SF	1	P	1416	.50	.67			E
MCMA	24	1814	1834	1818	N18	W58	.843	8506	20.4	20	SN		C	1818	.52	1.00			E
HALE	24	1908	1940	1911	N28	W41	.695	8509	21.7	32	SN	1	C	1911	.41	.60			T
MCMA	24	1909	1917	1910	N28	W42	.706	8509	21.6	8	SN		C	1910	.26	.40			D
HALE	24	1920	1925	1921	N25	E30	.557	8516	27.1	5	SN	1	C	1921	.26	.30			T
HALE	24	2354	0100D	2357	N27	E12	.391	8514	25.9	66D	SN	1	P	2357	1.24	1.30			TE
HALE	24	2357	0004	2358	N20	W50	.767	8509	21.2	7	SF	1	C	2358	.21	.30			T
HALE	25	0352	0414D	0358	N19	E27	.483	8516	27.2	22D	SN	1	P	0358	1.24	1.40			F
KAND	25	0945	1050D		N23	E25	.483	8516	27.3	65D	SN			1031		.90			
ARCE	25	0959	1020D	1005	N25	E25	.499	8516	27.3	21D	SF		C	1005	1.21	1.40			C
CAPS	25	1005E	1024		N21	E23	.443	8516	27.1	19D	SN	3		1005	.60	.70		165	E
KAND	25	1028	1044		N10	W90	1.000	8505	18.7	16	□								
HUAN	25	1634	1639	1636	N10	W90	1.000	8505	18.9	5	SN	2	C	1636	.25				D
ARCE	26	0810E	0825D		N21	E11	.303	8516	27.2	15D	SN		C	0820	1.02	1.10			
ARCE	26	0825E			N09	W90	1.000	8505	19.6		SN		C	0825	.23				
CAPS	26	0947E	0952D		N05	W90	1.000	8505	19.7	5D	SN	3		0949				182	D
ISTA	26	0949E	0952		N05	W90	1.000	8505	19.7	3D	S								
ARCE	26	0950E			N05	W90	1.000	8505	19.7		SN		C	0950	.15				
MONT	26	0958	1020		N13	E10	.200	8516	27.2	22	1N		C			3.00			
ISTA	26	1009	1018D		N25	E11	.357	8516	27.2	9D	1								
HUAN	26	1249E	1312		N20	W85	.992	8509	20.2	23D	SN	2	P	1255	.25				D
HUAN	26	1520	1535	1524	N21	W85	.992	8509	20.3	15	SN	2	C	1524	.25				D
CAPS	26	1527E	1540		N05	W90	1.000	8505	19.9	13D	SN	3		1528				170	D
MCMA	26	1635	1644	1638	N05	W88	.999	8505	20.1	9	SB		C	1638					D
SACP	26	1632	1650	1640	N19	W84	.991	8509	20.4	18	SN		C		.60				
LOCK	26	1634	1646	1636	N18	W83	.988	8509	20.5	12	1N		C	1636	.60	2.00		20	
HUAN	26	1635	1645	1638	N20	W88	.997	8509	20.1	10	SB	2	C	1638	.37				D
LOCK	26	1725	1820	1735	N23	W73	.949	8509	21.3	55	1F		C	1735	1.00	2.70		10	L
HALE	26	1933	1957	1941	N19	W84	.991	8509	20.5	24	SN	1	C	1941	.31				

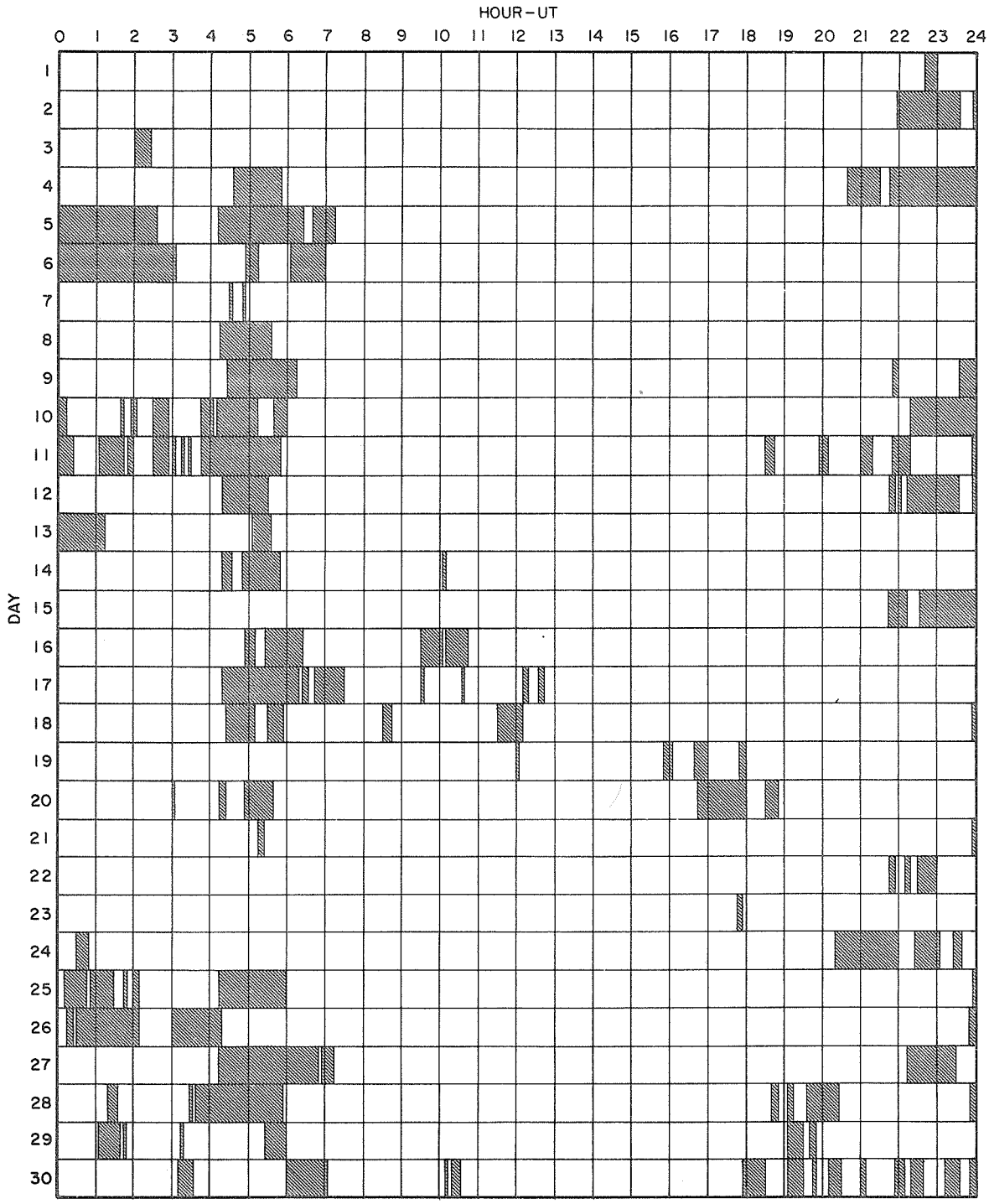
SOLAR FLARES

SEPTEMBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 SEPT	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	27	0158E	0203		N20	W00	.227	8516	27.1	5D	SF	2	P	0158	.21	.22			
KAND	27	0700E	0852		N22	W90	.999	8509	20.5	112D	□								
ISTA	27	0715E	0925		N21	W90	.999	8509	20.6	130D	S								
KAND	27	0928	0940		N22	E01	.261	8516	27.5	12	SN								
HUAN	27	1409	1428		N19	W90	.999	8509	20.8	19	SF	2	C	1419	.25				D
HALE	27	1639E	1647D		N29	W32	.607	8514	25.3	8D	SN	3	P	1639	.21	.32			D
HUAN	27	1717E	1733D		N20	W90	.999	8509	21.0	16D	SN	2	S						
LOCK	27	1836	1900	1841	N23	W11	.330	8516	26.9	24	SF		C	1841	.40	.40		10	
ISTA	28	0740E	0830D		S18	E90	1.001	8527	5.1	50D	1F								
ISTA	28	0858	0945D		N25	W90	.999	8509	21.6	47D	SF								
KAND	28	0906	0930D		N25	W90	.999	8509	21.6	24D	□								
ISTA	28	0925	0945D		N26	W11	.372	8516	27.6	20D	SF								
HALE	28	1702	1811	1706	N26	W34	.610	8516	26.2	69	SF	1	C	1706	.57	.70			TF
LOCK	28	2025	2035	2028	N22	W22	.439	8516	27.2	10	SF		C	2028	.60	.70		10	
ISTA	29	0710E	0715		N27	W27	.539	8516	27.3	5D	S								
KAND	29	0823	0935		N24	W28	.528	8516	27.2	72	SF							200	
HUAN	29	1113	1133		N28	W31	.590	8516	27.1	20	SF	1	C	1117	.31	.33			D
KAND	29	1143E	1206		N24	W28	.528	8516	27.4	23D	SF								
HUAN	29	1335	1430D		S17	W16	.479	8522	28.4	55D	SF	1	C	1346	.50	.51			E
HALE	29	1645	1737	1651	S17	W17	.487	8522	28.4	52	SN	1	C	1651	.46	.50			TF
HALE	29	1953E	2015	1953U	N28	W36	.644	8516	27.1	22D	SN	1	P	1953	.21	.30			T
HALE	29	2001	2040	2012	N24	W37	.635	8516	27.1	39	SN	1	C	2012	.36	.50			TF
SACP	29	2013E	2025D	2015U	N25	W37	.639	8516	27.1	12D	SF		P		1.72	1.91			
MCMA	29	2021E	2029		N26	W37	.644	8516	27.1	8D	SN		C	2022	.62	.80			E
HALE	29	2238	2258U	2239	N28	W36	.644	8516	27.2	20U	SN	1	C	2239	.21	.30			T
MITK	30	0239	0345	0256	N25	W38	.651	8516	27.3	66	SF		C	0256	1.13	1.50			E
ISTA	30	0705E	0820		N31	E46	.758	8526	3.7	75D	SF								
MCMA	30	1625E	1645D		S18	W05	.427	8529	30.3	20D	SN		C	1642	.52	.60			EJ
HUAN	30	1640	1648		S18	W05	.427	8529	30.3	8	SF	1	C	1643	.25	.25			D
HUAN	30	1953E	2005D		S18	W06	.430	8529	30.4	12D	SF	1	P	1955	.21	.21			D
LOCK	30	2053	2106	2058	S16	W36	.673	8522	28.2	13	SN		C	2058	.60	.80		10	
HALE	30	2056E	2101D	2057	S15	W36	.667	8522	28.2	5D	SN	1	P	2057	.31	.40			
LOCK	30	2116	2130	2120	S18	W10	.449	8529	30.1	14	SN		C	2120	.60	.70		20	J
LOCK	30	2247	2305	2255	S18	W10	.449	8529	30.2	18	SN		C	2255	.70	.80		20	
LOCK	30	2310	2400	2320	N24	W50	.776	8516	27.2	50	SN		C	2320	.70	1.10		10	
MANI	30	2347E	2348D		N21	W33	.573	8525	28.5	1D	SF			2347	.52	.83			
LOCK	30	2359	0020	0009	S16	W36	.673	8522	28.3	21	SF		C	0009	.30	.40		10	

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

SEPTEMBER 1966



Observatories included:

Arcetri	Haleakala	Huancayo	Manila	Mitaka	Tortosa
Capri-S (Swedish)	Herstmonceux	Istanboul	McMath-Hulbert	Sacramento Peak	Wendelstein

SOLAR FLARES

JUNE 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 JUNE																		
HALE	01	0100	0123	0110	N25	W45	.772	8314	28.7	23	SN	1	C	0110	.10	.20			
LOCK	01	0102	0128	0112	N26	W44	.767	8314	28.7	26	SN		C	0112	.50	.80		10	
MANI	01	0317	0328	0319	N18	E89	1.000	8332	7.8	11	SB	3		0319	.21	.70			
WEND	01	0535	0546		N31	E33	.702	8330	3.7	11	SN								
ARCE	01	0735E	0810D		N12	E38	.640	8326	4.2	35D	SN		C	0735	.83	1.10			H
	01	0915	0920	NO FLARE PATROL															
	01	1100	1105	NO FLARE PATROL															
KAND	01	1128E	1142		N31	E22	.615	8330	3.1	14D	SN		C	1137		1.00			
KAND	01	1128E	1210		N10	E36	.607	8326	4.2	42D	SN		C			1.20			
MCMA	01	1205	1231	1208	N32	E28	.670	8330	3.6	26	SN		C	1208	.41	.60			EH
HUAN	01	1406	1414	1408	N31	E30	.677	8330	3.8	8	SF	2	C	1408	.25	.28			D
MCMA	01	1408	1515D	1413	N32	E27	.662	8330	3.6	67D	SN		C	1413	.62	.90			E
HUAN	01	1449	1512	1456	N31	E30	.677	8330	3.9	23	SN	1	C	1456	.95	1.07			E
MCMA	01	1542	1548	1543	N32	E23	.633	8330	3.4	6	SN		C	1543	.21	.30			D
HALE	01	1634	1657	1640	N33	E26	.665	8330	3.6	23	SB	2	C	1640	.20	.30			
HUAN	01	1636	1642D		N31	E28	.661	8330	3.8	6D	SF	1	P	1638	.25	.28			D
LOCK	01	1636	1648	1639	N32	E27	.662	8330	3.7	12	SF		C	1639	.20	.30		10	
MEUD	01	1637	1643	1638	N31	E26	.645	8330	3.6	6	SF		C	1638	.52	.70			
SACP	01	1820	1824E	1821	S20	E50	.794	8328	5.5	4D	SF		P		.59	.80			
SACP	01	1849	1855	1851	N21	W80	.987	8312	26.8	6	SF		C		.17				
SACP	01	1901	1910	1904	N17	E48	.771	8326	5.4	9	SN		C		.08	.11			
HALE	01	2238E	0108	0035	N35	W76	.982	8312	27.2	150D	SN	2	C	0035	.26				
MCMA	01	2253E	2258D		N23	E90	1.000	8332	8.7	5D	SN		P	2257	.41				K
SACP	01	2253E	2300	2253U	N23	E90	1.000	8332	8.7	7D	SN		P		.34				E
LOCK	01	2313	2324	2318	N32	E22	.626	8330	3.6	11	SN		C	2318	.30	.40		10	
HALE	01	2315	2327	2317	N33	E21	.630	8330	3.5	12	SB	2	C	2317	.36	.50			E
SACP	01	2321E	2333	2321U	N32	E22	.626	8330	3.6	12D	SN		P		.68	.77			
SACP	01	2327	2336	2331	S21	E45	.747	8328	5.4	9	SF		P		.17	.21			
LOCK	02	0129	0140	0132	N22	E19	.488	8330	3.5	11	SN		C	0132	.30	.30		10	
MANI	02	0412	0442	0418	N30	E22	.603	8330	3.8	30	1F	3		0418	1.91	2.42			
MANI	02	0753	0815	0800	N31	E17	.580	8330	3.6	22	SF	2		0800	.31	.38			
ARCE	02	0800E	0840		N36	E20	.656	8330	3.8	40D	SF		C	0800	.63	.80			
CATA	02	0805E	0815D	0805	N34	E20	.634	8330	3.8	10D	SN			0805	.37	.50		153	
CATA	02	0805E	0815D	0805	N21	E80	.987	8332	8.3	10D	SF			0805	.37			136	
ARCE	02	0805E	0815D		N23	E88	1.000	8332	8.9	10D	SN		C	0805	.23	1.10			
ARCE	02	0910	0923	0915	N32	E16	.587	8330	3.6	13	SN		C	0915	.50	.60			
UCCL	02	0915E			N32	E19	.605	8330	3.8		SB		P						E
MCMA	02	1132	1158	1134	N33	E04	.556	8329	2.8	26	SN		C	1134	.72	.90			E
SACP	02	1307	1317	1312	N13	E23	.447	8326	4.3	10	SN		C		.76	.79			
HUAN	02	1307E	1319D	1312	N13	E22	.434	8326	4.2	12D	SF	1	C	1312	.31	.31			E
CLMX	02	1308	1318	1310	N11	E21	.405	8326	4.1	10	SF		C	1310	.30	.30			
MCMA	02	1308	1320	1310	N12	E21	.412	8326	4.1	12	SN		C	1310	.41	.50			EH
MEUD	02	1310	1315	1311	N12	E22	.426	8326	4.2	5	SF		C	1311	.52	.60			
HUAN	02	1411	1432	1425	N06	W47	.736	8318	30.1	21	SB	2	C	1425	.52	.62			E
CLMX	02	1422	1432	1423	N04	W46	.722	8318	30.1	10	SB		C	1423	.30	.36			
SACP	02	1422	1432	1424	N04	W47	.734	8318	30.1	10	SN		C		1.02	1.27			
MCMA	02	1423	1430	1425	N03	W47	.733	8318	30.1	7	SB		C	1425	.41	.60			EH
MCMA	02	1558	1625	1608	N33	E01	.553	8329	2.7	27	SN		C	1608	.62	.70			E
HUAN	02	1605	1616	1609	N33	E02	.554	8329	2.8	11	SF	2	C	1609	.25	.26			D
HUAN	02	1614	1627	1618	N05	W49	.758	8318	30.0	13	SN	2	C	1618	.31	.39			E
LOCK	02	1614	1638	1618	N05	W47	.735	8318	30.2	24	SN		C	1618	.40	.60		20	J
SACP	02	1615	1624	1618	N04	W49	.757	8318	30.0	9	SN		C		.42	.54			
MCMA	02	1628	1635	1629	N03	W48	.744	8318	30.1	7	SN		C	1629	.31	.50			E
HALE	02	1631E	1701		N04	W49	.757	8318	30.0	30D	SB	2	P	1631	.05	.10			
LOCK	02	1725	1736	1729	N05	W47	.735	8318	30.2	11	SN		C	1729	.50	.80		20	J
MCMA	02	1726	1734	1730	N03	W49	.756	8318	30.1	8	SB		C	1730	.41	.60			E
HUAN	02	1726	1739	1730	N05	W49	.758	8318	30.1	13	SF	2	C	1730	.37	.47			E
CLMX	02	1727	1732	1729	N04	W46	.722	8318	30.3	5	SF		C	1729	.30	.36			
SACP	02	1727	1738	1730	N03	W48	.744	8318	30.1	11	SN		C		.60	.81			
OTTA	02	1729E	1730D		N03	W49	.756	8318	30.1	1D	SB	1	P	1730	.53	.82			
SACP	02	1736	1750	1743	N34	E14	.602	8330	3.8	14	SN		C		.85	.95			
HALE	02	1737	1750	1742	N34	E13	.597	8330	3.7	13	SN	2	C	1742	.31	.40			E
SACP	02	1803	1813	1807	S23	E42	.726	8328	5.9	10	SF		C		.34	.42			
HALE	02	1827	1857	1830	N04	W49	.757	8318	30.1	30	SB	2	C	1830	.26	.40			
LOCK	02	1858	1915	1902	N05	W47	.735	8318	30.3	17	SB		C	1902	.80	1.20		30	J
SACP	02	1859	1910	1903	N03	W50	.767	8318	30.0	11	SN		C		.51	.66			
HUAN	02	1900	1911	1903	N05	W50	.769	8318	30.0	11	SN	2	C	1903	.37	.47			E
MCMA	02	1901	1910	1902	N03	W50	.767	8318	30.0	9	SB		C	1902	.52	.80			E
LOCK	02	2103	2113	2106	N31	E09	.540	8330	3.6	10	SF		C	2106	.30	.40		10	
MCMA	02	2246E	2258D		N34	W76	.981	8312	28.2	12D	SN		P	2250	.26				D
LOCK	02	2358	0005	0000	N35	W73	.972	8312	28.5	7	SN		C	0000	.30	.90		10	
LOCK	03	0010	0022	0013	N35	W73	.972	8312	28.5	12	SF		C	0013	.30	.90		10	J
HALE	03	0300	0323	0312	N34	W76	.981	8312	28.4	23	SN	2	C	0312	.20				
CAPS	03	0615	0626		N23	E62	.903	8332	7.9	11	SN	3		0621	.50	1.20		161	GD
MEUD	03	0759	0805	0759	N05	W60	.868	8318	29.8	6	SF		C	0759	.31	.60			
ISTA	03	0845	0855		S12	W60	.871		29.9	10	1								
ARCE	03	0840	0858	0850	N04	W59	.858	8318	29.9	18	SN		C	0850	.30	.60			
CATA	03	0843E	0858D	0847	N04	W60	.867	8318	29.9	15D	SN			0847	.54	1.00		190	

SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 JUNE																		
KAND	03	0845E	0858		N06	W58	.850	8318	30.0	13D	SF		V						
MEUD	03	0847	0852	0848	N05	W60	.868	8318	29.9	5	SN		C	0848	.31	.60			
ARCE	03	0955	1016D		N23	W80	.988	8314	28.4	21D	SN		C	1016	.33	1.00			
HUAN	03	1225	1239	1235	N33	W88	1.000	8312	27.9	14	SF	2	C	1235	.21				D
HUAN	03	1249	1306	1255	N34	W88	1.000	8312	27.9	17	SF	2	C	1255	.25				D
CLMX	03	1319	1326	1320	N04	W54	.810	8318	30.5	7	SB		C	1320	.30	.42			
SACP	03	1547	1607D	1552	S21	E30	.585	8328	5.9	20D	SN		C		.76	.84			
HALE	03	1858	1920	1910	N14	E06	.269	8326	4.2	22	SN	2	C	1910	.21	.21			
LOCK	03	1859	1915	1903	N14	E06	.269	8326	4.2	16	SF		C	1903	.40	.40		10	
HUAN	03	1859	1915	1908	N14	E07	.276	8326	4.3	16	SF	2	C	1908	.25	.25			D
MCMA	03	1900	1913D		N14	E06	.269	8326	4.2	13D	SN		C	1910	.21	.21			D
SACP	03	1902	1919	1907	N14	E06	.269	8326	4.2	17	SF		C		.26	.25			
HALE	03	1919	1944	1922	N24	W27	.585	8320	1.8	25	SN	2	C	1922	.10	.11			
LOCK	03	1920	2000	1947	N25	W28	.604	8320	1.7	40	SF		C	1947	.20	.30		10	
HUAN	03	2108	2114	2110	N13	E06	.254	8326	4.3	6	SF	2	C	2110	.37	.37			E
MCMA	03	2147	2259D		N14	E05	.263	8326	4.3	72D	SN		C	2202	.83	.82			EH
LOCK	04	0030	0053	0042	N13	W07	.259	8326	3.5	23	SF		C	0042	.30	.30		10	
SACP	04	0033	0052	0040	N12	W06	.237	8326	3.6	19	SN		C		.34	.34			
CULG	04	0215	0240	0218	N31	W02	.521	8326	3.9	25	SB		C	0218	.83	.92			H
KANZ	04	0714	0717D		N15	E02	.267	8326	4.5	3D	SF								D
ARCE	04	0915	0935D	0915	N31	W06	.528	8330	3.9	20D	SB		C	0915	.86	1.00			
UCCL	04	1153E			N34	W90	1.000	8312	28.7		SB		P						D
HUAN	04	1155E	1201		N33	W90	1.000	8312	28.7	6D	SF	1	P	1156	.37				
HUAN	04	1206	1248	1223	N33	W90	1.000	8312	28.8	42	1N	2	C	1223	.77				
ONDR	04	1225E	1251		N33	W90	1.000	8312	28.8	26D	1N		V	1227			5.00		AG
ONDR	04	1300	1338		N33	W90	1.000	8312	28.8	38	1F		V	1321			4.00		AG
HUAN	04	1301	1347	1323	N33	W90	1.000	8312	28.8	46	SN	2	C	1323	.52				
HUAN	04			1336										1336	.57				
MCMA	04	1343E	1353D		N32	W22	.622	8329	2.9	10D	SN		C	1345	.62	.80			EH
HALE	04	1617	1633	1623	N14	W06	.267	8326	4.2	16	SN	1	P	1623	.31	.32			TE
LOCK	04	1856	1918	1905	N35	W14	.611	8330	3.7	22	SF		C	1905	.40	.50		10	
SACP	04	2215	2230	2224	S20	E13	.398	8328	5.9	15	SN		C		.51	.52			
CULG	04	2223	2228	2224	S19	E13	.384	8328	5.9	5	SF		C	2224	.41	.44			
LOCK	05	0036	0044	0038	N13	W18	.378	8326	3.7	8	SN		C	0038	.50	.60		10	
CULG	05	0040	0056	0043	N12	W19	.382	8326	3.6	16	SN		C	0043	.41	.42			H
SACP	05	0041	0047	0043	N12	W20	.396	8326	3.5	6	SF		C		.51	.52			
ARCE	05	0920	0955D	0930	N12	W17	.356	8326	4.1	35D	SF		C	0930	1.05	1.10			
KAND	05	1330	1346		N23	W59	.881	8319	1.1	16	SF		C						
SACP	05	1607	1620	1611	N33	W30	.689	8330	3.4	13	SN		C		.34	.40			
LOCK	05	1608	1620	1612	N36	W29	.709	8330	3.5	12	SN		C	1612	.20	.30		20	
SACP	05	1905	1919	1910	N24	E90	1.000	8335	12.5	14	SN		C		.17				
HUAN	05	1906	1919	1910	N22	E90	1.000	8335	12.5	13	SF	2	C	1910	.21				D
LOCK	05	2128	2141	2132	N25	W70	.951	8319	31.6	13	SF		C	2132	.40	1.00		10	
MCMA	05	2130	2135D	2132	N21	W70	.948	8319	31.6	5D	SN		C	2132	.52	1.20			D
SACP	05	2130	2140	2133	N20	W68	.936	8319	31.8	10	SF		C		.51	.98			
MCMA	05	2150	2205D	2155	N13	W32	.564	8326	3.5	15D	SN		C	2155	.21	.30			EH
CULG	05	2326	2347	2329	N29	W47	.804	8320	2.5	21	SN		C	2329	.31	.51			CH
KAND	06	0745E	1114		N19	E90	1.000	8335	13.1	209D	1N		C						
ARCE	06	0840E	0910D		N21	E90	1.000	8335	13.1	30D	1N		C	0845	.59	3.30			
ARCE	06	0930E	1000D		N21	E90	1.000	8335	13.1	30D	SN		C	0955	.26	1.50			
HUAN	06	1154	1200	1156	N22	W76	.975	8319	31.8	6	SF	1	C	1156	.21				D
HUAN	06	1206	1216	1209	N22	W77	.978	8319	31.7	10	SF	2	C	1209	.25				D
HUAN	06	1308	1327	1314	N21	W80	.987	8319	31.5	19	SF	2	C	1314	.25				D
HUAN	06	1347	1434	1357	N21	W80	.987	8319	31.6	47	SF	2	C	1357	.52				
UCCL	06	1417E			N17	E90	1.000	8335	13.3		SN		P						D
HUAN	06	1449	1532	1456	N21	W81	.989	8319	31.5	43	SN	2	C	1456	.31				D
MEUD	06	1451	1525	1455	N20	W78	.981	8319	31.8	34	SN		C	1455	.21				
MEUD	06			1516															
SACP	06	1453	1504	1458	N20	W80	.987	8319	31.6	11	SN		C		.34				
MCMA	06	1455	1504	1457	N20	W87	.999	8319	31.1	9	SN		C	1457	.36				D
LOCK	06	1740	1755	1745	N25	W80	.988	8319	31.7	15	SF		C	1745	.20	.60		10	
HUAN	06	1900	1913	1906	N20	W85	.997	8319	31.4	13	SF	2	C	1906	.31				D
MCMA	06	1906E	1919		N20	W89	1.000	8319	31.1	13D	SN		P	1910	.52				BE
LOCK	06	2130	2205	2137	N36	W40	.786	8330	3.9	35	SF		C	2137	.40	.60		10	
LOCK	06			2155										2155	.40	.60		10	
SACP	06	2345	2355	2350	S22	W11	.413	8328	6.2	10	SN		C		.85	.88			
MANI	06	2354E	2358D		S20	W10	.378	8328	6.2	4D	SF	2		2355	.31	.33			
SALT	08	1040E	1047		N32	W62	.917	8330	3.8	7D	SB	3		1044	.40	1.00		180	D
KANZ	08	1043E	1052		N33	W60	.907	8330	3.9	9D	SF								D
KHAR	08	1126E	1226		N30	W67	.941	8330	3.5	60D	2N		V	1207	2.27	7.00	2.30		CEKOR
HUAN	08	1204	1236	1212	N32	W66	.938	8330	3.6	32	SN	2	C	1212	.57				E
OTTA	08	1209E	1211D		N31	W67	.942	8330	3.5	2D	SB	1	P	1209	.23				
MEUD	08	1210	1210D		N31	W65	.932	8330	3.6	0D	SN		C	1210	.52				D
KIEV	08	1210	1220	1213	N35	W70	.960	8330	3.3	10	SN		C	1213	1.55			60	D
SACP	08	1211E	1220	1213	N31	W62	.915	8330	3.9	9D	1		P		1.49	2.60			
SALT	08	1211E	1225		N32	W63	.922	8330	3.8	14D	1N	3		1214	1.10	2.90		175	

SOLAR FLARES

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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 JUNE																		
MEUD	08	1510	1515	1512	N31	W65	.932	8330	3.8	5	SF		C	1512	.52				D
HUAN	08	1522	1535	1530	N32	W68	.948	8330	3.5	13	SF	2	C	1530	.25				D
MEUD	08	1528E	1533	1530	N31	W65	.932	8330	3.8	5D	SF		C	1530	.52				CD
	08	2350	2400	NO FLARE PATROL															
HALE	09	0316	0330	0321	N35	W76	.980	8330	3.4	14	SN	1	C	0321	.21				
MEUD	09	0813	0818	0814	N20	E55	.841	8336	13.5	5	SF		C	0814	.31	.50			D
ZURI	09	0814E	0821	0818	N20	E52	.814	8336	13.2	7D	SF		P	0818	1.05	1.90			
SACP	09	1358	1417	1402	N30	W10	.518	8332	8.8	19	SF		C		.51	.53			
OTTA	09	1353	1411	1359	N21	E49	.789	8336	13.3	18	IN								
OTTA	09			1404								1	C	1404	1.91	3.10			EHJK
SACP	09	1356	1452	1404	N23	E49	.796	8336	13.3	56	1F		C		1.78	2.37			
HUAN	09	1357	1409	1400	N21	E52	.817	8336	13.5	12	SF	2	C	1400	.37	.51			E
KANZ	09	1417E	1440		N22	E46	.763	8336	13.0	23D	1F								FL
HUAN	09	1419	1438	1423	N21	E50	.799	8336	13.3	19	SN	2	C	1423	.31	.42			EH
OTTA	09	1423	1438		N22	E50	.802	8336	13.3	15	SN	1	C	1434	.71	1.19			E
LOCK	09	2133	2200	2145	N33	W82	.993	8330	3.7	27	SF		C	2145	.30	1.00		10	
HUAN	09	2145	2159D		N32	W88	.999	8330	3.3	14D	SF	1	C	2151	.31				D
SACP	09	2146E	2147D	2147U	N30	W80	.988	8330	3.9	1D	SN		P		.34				
HALE	09	2256	2310	2259	N22	E40	.702	8336	13.0	14	SN	1	C	2259	.21	.30			
SACP	10	0128	0136D	0136U	N22	E40	.701	8336	13.1	8D	1F		P		1.72	2.06			
CULG	10	0130E	0150D	0140	N21	E40	.696	8336	13.1	20D	SN		P	0140	1.03	1.40			
HALE	10	0131	0220	0137	N25	E41	.727	8336	13.1	49	SN	1	C	0137	.62	.90			TE
KODA	10	0200			N26	E40	.722	8336	13.1		SF		P	0200	1.29	1.80			
MANI	10	0310	0320	0312	N18	E43	.716	8336	13.4	10	SF	2		0312	.36	.52			
LOCK	10	1616	1650	1622	N28	W41	.743	8332	7.6	34	SF		C	1622	.60	.90		10	
	11	0210	0230	NO FLARE PATROL															
KAND	11	0603	0729		N19	E29	.558	8336	13.4	86	1N		P	0628		2.20			
KANZ	11	0848	0915D		N24	E25	.555	8336	13.2	27D	SF								
ARCE	11	0910E	0950D	0920	N22	E25	.537	8336	13.3	40D	SN		C	0920	.48	.60			DH
MONT	11	1036	1112		N20	E27	.542	8336	13.5	36	2N			1045	3.09	6.00			HM
MONT	11	1133	1155		N23	E29	.588	8336	13.7	22	1B			1140	1.55	2.50			
MCMA	11	1136	1220	1138	N22	E23	.516	8336	13.2	44	SN		C	1138	1.03	1.20			EH
CATA	11	1144E	1153D	1149	N23	E24	.536	8336	13.3	9D	SN			1149	.62	.70		159	
MCMA	11	1150	1208	1200	N20	E25	.519	8336	13.4	18	SB		C	1200	.52	.60			DH
MONT	11	1210			N21	E26	.539	8336	13.5		1N			1215	2.06	3.00			
MCMA	11	1348E	1420		N20	E25	.519	8336	13.5	32D	SF		C	1351	.21	.30			DH
HUAN	11	1550	1601	1554	N20	E18	.443	8336	13.0	11	SF	2	C	1554	.52	.52			DH
SACP	11	1551	1605	1556	N20	E17	.432	8336	12.9	14	SN		C		.85	.88			
LOCK	11	1551	1605	1554	N20	E18	.443	8336	13.0	14	1N		C	1554	2.00	2.20		20	H
MCMA	11	1552	1613	1554	N21	E17	.444	8336	12.9	21	SB		C	1554	.46	.50			EHK
LOCA	11	1553	1605	1554	N18	E15	.389	8336	12.8	12	SN		V	1554	1.26	1.40			
MEUD	11	1554E	1554D		N20	E20	.464	8336	13.2	0D	SN		C	1554	.52	.60			CD
SACP	11	1641	1701	1653	N20	W42	.713	8332	8.5	20	SN		C		.34	.41			
HUAN	11	1650	1655	1652	N22	W42	.722	8332	8.6	5	SF	2	C	1652	.31	.37			D
MEUD	11	1651	1654	1652	N20	W40	.691	8332	8.7	3	SN		C	1652	.41	.50			D
LOCK	11	1651	1657	1653	N24	W41	.721	8332	8.6	6	SN		C	1653	.60	.80		20	
LOCK	11	1704	1735	1710	N22	E22	.505	8336	13.4	31	SF		C	1710	.50	.60		10	J
HUAN	11	1706	1715	1709	N24	E21	.516	8336	13.3	9	SF	2	C	1709	.21	.21			D
MCMA	11	1707	1717	1708	N24	E19	.498	8336	13.1	10	SN		C	1708	.31	.40			E
LOCK	11	1735	1758	1740	N27	W33	.660	8332	9.3	23	SF		C	1740	.40	.50		10	
LOCK	11	1820	1840	1830	N21	E01	.350	8334	11.8	20	SF		C	1830	.30	.30		10	
LOCK	11	1935	2010	1950	N22	E22	.505	8336	13.5	35	SF		C	1950	.50	.60		10	J
LOCK	11	1940	1958	1945	N25	W17	.492	8334	10.5	18	SN		C	1945	.50	.60		10	
HUAN	11	2028	2042	2032	N23	E20	.496	8336	13.4	14	SF	1	C	2032	.62	.64			E
SACP	11	2028	2045	2033	N23	E20	.496	8336	13.4	17	SF		C		.77	.81			
LOCK	11	2029	2049	2034	N22	E21	.495	8336	13.4	20	SN		C	2034	.90	1.00		20	J
MCMA	11	2030	2044	2034	N24	E19	.498	8336	13.3	14	SB		C	2034	.72	.80			E
HALE	11	2031	2043	2033	N24	E18	.489	8336	13.2	12	SN	1	C	2033	.41	.50			
SACP	11	2057	2131	2115	N21	E23	.506	8336	13.6	34	SN		C		.42	.45			
MCMA	11	2110	2127	2115	N22	E23	.516	8336	13.6	17	SN		C	2115	.26	.30			E
LOCK	11	2110	2130	2115	N19	E24	.499	8336	13.7	20	SN		C	2115	.50	.60		10	J
MCMA	11	2200E	2228D		N23	E18	.477	8336	13.3	28D	SN		C	2215	.21	.21			D
LOCK	11	2248	2340	2305	N19	E24	.499	8336	13.8	52	SN		C	2305	.50	.56		10	J
CULG	11	2306E	2318	2310	N18	E21	.455	8336	13.5	12D	SN		P	2310	.41	.46			
SACP	11	2310	2358D	2350	N21	E22	.495	8336	13.6	48D	SN		C		1.62	1.71			
LOCK	11	2345	2400	2350	N21	E20	.474	8336	13.5	15	SF		C	2350	.30	.30		10	J
CULG	11	2346	0024	2351	N19	E22	.476	8336	13.6	38	SB		C	2351	1.55	1.72			
LOCK	11	2348	0003	2351	N19	E24	.499	8336	13.8	15	SB		C	2351	1.30	1.60		30	J
VORO	11	2349	2357	2349	N22	E21	.495	8336	13.6	8	SF		C	2349	.72	.83		75	DJ
HALE	11	2349	2359	2352	N21	E20	.474	8336	13.5	10	SN	1	C	2352	1.03	1.20			
MANI	11	2352E	0006D	2355	N20	E23	.496	8336	13.7	14D	SF	1		2355	.60	.68			
MANI	12	0318	0400	0330	N18	E41	.693	8339	15.2	42	1N	3		0330	1.34	2.01			
WEND	12	0613	0626		N23	E14	.441	8336	13.3	13	SN								
WEND	12	0632	0643		N23	E14	.441	8336	13.3	11	SB								
KAND	12	0634	0639		N23	E16	.458	8336	13.5	5	SN		C						

SOLAR FLARES

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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.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	1966 JUNE																		
CATA	12	0635E	0640D	0636	N23	E14	.441	8336	13.3	5D	SN			0636	.17	.20		182	
MONT	12	0901	0945		N22	E14	.428	8336	13.4	44	1N			0920	2.06	4.00			
MONT	12	1010	1040		N22	E14	.428	8336	13.5	30	SN			1015	1.03	2.00			
KANZ	12	1025E	1039D		N23	E15	.449	8336	13.6	14D	SF								BF
MONT	12	1058	1145D		N22	E13	.420	8336	13.4	47D	1N			1115	2.06	4.00			
HUAN	12	1308	1333		N27	W50	.816	8332	8.8	25	SF	1	C	1314	.45	.60			D
SACP	12	1309	1343	1313	N25	W50	.809	8332	8.8	34	SF		C		.59	.82			
MCMA	12	1310	1342	1315	N26	W52	.830	8332	8.6	32	SN		C	1315	.41	.80			D
HUAN	12	1343	1350	1344	N23	E10	.413	8336	13.3	7	SN	1	C	1345	.25	.25			D
SACP	12	1343	1351	1345	N22	E10	.398	8336	13.3	8	SF		C		.77	.79			
MEUD	12	1344	1348	1345	N21	E13	.407	8336	13.5	4	SF		C	1345	.26	.30			D
MCMA	12	1344	1349D	1345	N23	E09	.407	8336	13.2	5D	SN		C	1345	.26	.30			D
HUAN	12	1600	1621	1603	N23	E10	.413	8336	13.4	21	SB	1	C	1603	1.01	1.00			E
SACP	12	1601	1621	1606	N23	E09	.407	8336	13.3	20	SN		C		1.87	1.93			
LOCA	12	1601	1625	1605	N22	E09	.392	8336	13.3	24	1N		C	1605	2.10	2.30			
LOCK	12	1601	1625	1604	N23	E12	.426	8336	13.6	24	SB		C	1604	1.40	1.50		30	
MCMA	12	1602	1630	1603	N23	E10	.413	8336	13.4	28	SB		C	1603	1.03	1.10			EV
HALE	12	1605E	1626	1605U	N23	E08	.402	8336	13.3	21D	SB	2	P	1605	.83	.90			E
CLMX	12	1608E	1627		N22	E10	.398	8336	13.4	19D	SB		C	1611	.50	.50			
MEUD	12	1610E	1611D		N21	E12	.399	8336	13.6	1D	SN		C	1611	1.03	1.10			CD
LOCK	12	1801	1814	1805	N22	E08	.387	8336	13.4	13	SF		C	1805	.30	.30		10	
MCMA	12	1804	1811	1805	N23	E09	.407	8336	13.4	7	SN		C	1805	.26	.30			D
HUAN	12	2032	2048	2034	N23	E07	.397	8336	13.4	16	SN	1	C	2034	.58	.58			E
LOCK	12	2032	2055	2034	N23	E07	.397	8336	13.4	23	SN		C	2034	.90	1.00		20	
HALE	12	2033	2046	2038	N22	E05	.373	8336	13.2	13	SN	1	C	2038	.62	.70			
MCMA	12	2033	2049	2035	N23	E08	.402	8336	13.5	16	SB		C	2035	.52	.60			E
SACP	12	2033E	2049	2035	N23	E07	.397	8336	13.4	16D	SF		C		1.11	1.14			
LOCK	12	2142	2200	2150	N23	E07	.397	8336	13.4	18	SF		C	2150	.50	.60		10	J
HUAN	12	2145	2154		N22	E06	.377	8336	13.4	9	SF	1	P	2147	.25	.25			D
MCMA	12	2145	2158	2148	N23	E08	.402	8336	13.5	13	SF		C	2148	.26	.30			D
HALE	12	2145	2159	2150	N22	E04	.370	8336	13.2	14	SF	1	C	2150	.31	.32			
CULG	12	2145	2202	2148	N19	E01	.315	8336	13.0	17	SN		P	2148	.41	.42			
MANI	12	2255	2309	2258	N20	E09	.363	8336	13.6	14	SN	2		2258	.65	.70			
LOCK	12	2255	2316	2300	N23	E06	.392	8336	13.4	21	SF		C	2300	.50	.90		10	
CULG	12	2256	2309	2259	N20	E04	.338	8336	13.3	13	SN		C	2259	1.03	1.05			E
LOCK	13	0010	0042	0016	N23	E06	.391	8336	13.5	32	SN		C	0016	.80	.90		20	
HALE	13	0010	0132D	0016	N23	E03	.382	8336	13.2	82D	SN	1	P	0016	.31	.32			FK
HALE	13			0106										0106	1.03	1.10			
MITK	13	0012	0024	0017	N23	E05	.387	8336	13.4	12	SN		C	0017	1.75	1.90		140	F
MANI	13	0015E	0035	0017	N22	E08	.385	8336	13.6	20D	SN	2		0017	.80	.87			
SACP	13	0016	0139E	0107	N23	E05	.387	8336	13.4	83D	1N		P		2.39	2.46			
MANI	13	0044	0056	0046	N22	E07	.380	8336	13.6	12	SN	2		0046	.52	.56			
SIBE	13	0045E	0131D	0106	N22	E01	.363	8336	13.1	46D	1F			0106	2.28	2.50			E
LOCK	13	0100	0135	0110	N23	E05	.387	8336	13.4	35	SB		C	0110	1.00	1.10		30	
MITK	13	0101	0130	0105	N23	E04	.384	8336	13.3	29	1N		C	0105	1.96	2.10		160	F
MANI	13	0102	0137	0109	N22	E07	.380	8336	13.6	35	SN	2		0109	1.70	1.85			
HALE	13	0143	0150	0148	N23	E03	.382	8336	13.3	7	SN	1	C	0148	.52	.60			TE
HALE	13	0237	0254	0241	N23	E03	.382	8336	13.3	17	SN	1	C	0241	.83	.90			TE
VORO	13	0238	0312	0258	N24	E01	.395	8336	13.2	34	1N		C	0258	2.07	2.24		72	EHJK
VORO	13	0238	0312	0258	N22	E05	.371	8336	13.5	34									
MITK	13	0238	0325	0259	N23	E03	.382	8336	13.3	47	1N		C	0259	2.68	2.90		160	E
HALE	13	0256	0312	0301	N23	E02	.380	8336	13.3	16	1N	1	C	0312	2.06	2.20			T
MANI	13	0257	0322	0305	N22	E05	.371	8336	13.5	25	1N	3		0305	3.11	3.35			
KODA	13	0301E	0307D		N21	E05	.355	8336	13.5	6D	1B		P	0303	2.58	2.73			
MANI	13	0347	0359	0353	N22	E04	.368	8336	13.5	12	SF	1		0353	1.30	1.40			
HALE	13	0347	0417	0353	N23	E04	.384	8336	13.5	30	SF	1	C	0353	1.03	1.10			THS
MANI	13	0422	0507	0426	N22	E03	.366	8336	13.4	45	SN	2		0426	1.21	1.30			
MANI	13			0431															
HALE	13	0433	0502D	0445	N23	E02	.380	8336	13.3	29D	SB	1	P	0445	1.24	1.30			TE
MITK	13	0434	0510	0449	N23	E05	.387	8336	13.6	36	SN		C	0449	1.34	1.40		140	D
WEND	13	0512E	0628D		N22	E07	.380	8336	13.7	76D	1N		V		5.16				
MITK	13	0535	0620	0545	N23	E03	.382	8336	13.5	45	1F		C	0545	3.20	3.50		130	F
CATA	13	0540E	0755D	0713	N23	E00	.378	8336	13.2	135D	1B		C	0713	3.53	3.80		234	
MANI	13	0600	0625	0610	N22	E02	.364	8336	13.4	25	SF	2		0610	1.34	1.40			
MEUD	13	0640E	0725	0703	N22	E01	.363	8336	13.4	45D	1B		C	0703	2.99	3.10			CDEF
MANI	13	0640	0740	0649	N22	E02	.364	8336	13.4	60	1N	2		0649	2.09	2.23			
MITK	13	0640	0747	0710	N23	W02	.380	8336	13.1	67	1N		C	0710	4.02	4.40		160	F
WEND	13	0642	0715D		N22	E05	.371	8336	13.7	33D	2N		V		9.28				
CAPS	13	0644	0743		N23	E04	.384	8336	13.6	59	1N	3		0646	4.50	5.00		180	GF
MONT	13	0658E	0725D		N22	E01	.363	8336	13.4	27D	1B			0658	2.02	3.00			
LOCA	13	0709E	0830	0710	N21	E00	.346	8336	13.3	81D	2N		P	0710	9.24	9.80			
KHAR	13	0710E	0855D		N24	W01	.395	8336	13.2	105D	1N		S	0716	4.02	4.40	1.80		BFO
KAND	13	0713E	0820		N22	E03	.366	8336	13.5	67D	2N		C	0743		9.40			
ZURI	13	0722E	0759	0723	N21	W01	.346	8336	13.2	37D	2N		P	0723	5.47	5.80			
KANZ	13	0722E	0808		N22	E01	.363	8336	13.4	46D	1N			0723			2.50		BF
MEUD	13	1100	1108		N24	W62	.901	8332	8.8	8	SF		C	1101	.52				D
SALT	13	1250E	1302		N20	W06	.344	8336	13.1	12D	SN	3		1255	1.80	1.90		175	E
SACP	13	1251	1308	1256	N23	W04	.384	8336	13.2	17	SF		C		.86	.88			
CLMX	13	1252	1303	1254	N23	W03	.382	8336	13.3	11	SN		C	1254	.50	.50			

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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 JUNE																		
OTTA	13	1252	1309	1256	N22	W04	.368	8336	13.2	17	SB	2	C	1256	.71	.77			EJ
KAND	13	1255	1306		N24	E02	.396	8336	13.7	11	SB		C						
WEND	13	1255E	1311D		N22	W04	.368	8336	13.2	16D	1N		V		3.09				
HUAN	13	1500	1507	1504	N24	W67	.932	8332	8.6	7	SF	1	C	1504	.21				D
OTTA	13	1501	1507	1504	N23	W77	.977	8332	7.9	6	SN	2	C	1504	.35				
MEUD	13	1503	1506	1503	N24	W64	.914	8332	8.8	3	SF		C	1503	.31				D
LOCK	13	1540	1555	1545	S20	E32	.610	8338	16.1	15	SN		C	1545	.40	.50		10	
LOCK	13	1607	1625	1612	N34	W01	.548	8336	13.6	18	SN		C	1612	.50	.60		10	J
OTTA	13	1608	1634	1613	N21	W03	.349	8336	13.4	26	1N	2	C	1613	2.38	2.54			
HUAN	13	1628	1653	1638	N20	W08	.355	8336	13.1	25	SF	2	C	1638	.31	.31			D
OTTA	13	1629	1657	1634	N19	W08	.340	8336	13.1	28	SB	2	C	1634	1.55	1.65			F
HALE	13	1629	1702	1635	N19	W10	.354	8336	12.9	33	SF	2	C		.62	.70			T
CLMX	13	1630	1651	1642	N20	W03	.333	8336	13.5	21	SN		C	1642	.50	.50			
LOCK	13	1630	1655	1637	N21	W08	.370	8336	13.1	25	SN		C	1637	1.00	1.10		20	J
ONDR	13	1636E	1650		N15	W05	.260	8336	13.3	14D	1F		V	1637			1.60		CDH
MEUD	13	1639	1645		N20	W07	.349	8336	13.2	6	SN		C	1640	.36	.40			D
LOCK	13	1738	1800	1747	N22	W01	.363	8336	13.7	22	SN		C	1747	.40	.42		10	
OTTA	13	1742	1758	1744	N19	W02	.315	8336	13.6	16	SB	2	C	1744	.24	.25			
LOCK	13	1800	1820	1809	N17	W70	.944	8332	8.5	20	1N		C	1809	.90	2.20		20	L
MEUD	13	1803	1809	1806	N24	W66	.926	8332	8.8	6	SF		C	1806	.77				D
OTTA	13	1804	1815	1806	N22	W68	.936	8332	8.7	11	SN	2	C	1806	.71				
HUAN	13	1806E	1811D		N24	W68	.938	8332	8.7	5D	SF	1	P	1807	.37				E
LOCK	13	1830	1912	1840	N15	W72	.953	8332	8.4	42	1F		C	1840	1.50	3.80		10	L
LOCK	13	2200	2240	2210	N20	W45	.743	8334	10.5	40	SF		C	2210	.40	.60		10	
CULG	13	2253	2303	2257	N18	W04	.304	8336	13.7	10	SN		P	2257	.31	.31			E
LOCK	13	2254	2303	2257	N19	W08	.340	8336	13.4	9	SN		C	2257	.30	.31		10	
CULG	14	0016	0047	0025	N20	W70	.945	8332	8.8	31	1N		C	0025	.52				G
LOCK	14	0020	0038	0027	N25	W72	.958	8332	8.6	18	SF		C	0027	.20	.50		10	
MANI	14	0505E	0514		N19	W11	.360	8336	13.4	9D	SN			0505	.52	.55			
KAND	14	0610	0850		N21	W08	.368	8336	13.7	160	1N		C	0656		3.20			
MANI	14	0648	0705	0654	N19	W12	.368	8336	13.4	17	SN			0654	.26	.28			
MONT	14	1015	1035D	1035	N23	W12	.423	8336	13.5	20D	1N			1022	2.06	3.00			
SALT	14	1022E	1032		N21	W12	.395	8336	13.5	10D	SN	3		1027	1.70	1.90		170	
MEUD	14	1023	1028	1025	N21	W08	.368	8336	13.8	5	SF		C	1025	.31	.30			D
MEUD	14	1042	1048	1045	N23	W75	.970	8332	8.8	6	SF		C	1045	.52				D
MONT	14	1050	1130		N23	W12	.423	8336	13.6	40	1N			1100	2.06	3.00			
KAND	14	1115	1250		N21	W08	.368	8336	13.9	95	1N		C	1135		3.20			
HUAN	14	1433	1517D	1456	N23	W16	.455	8336	13.4	44D	SF	1	C	1456	.80	.82			E
HUAN	14			1500										1500	1.05	1.07			
LOCK	14	1528E	1610	1528E	N22	W16	.442	8336	13.4	42D	SN		C	1528	1.60	1.80		10	B
MCMA	14	1929	1958D	1934	N22	W18	.461	8336	13.5	29D	SN		C	1934	.72	.80			E
HUAN	14	1929	2010	1937	N22	W19	.471	8336	13.4	41	SF	2	C	1937	.60	.61			E
CLMX	14	1930	1933D		N25	W21	.523	8336	13.2	3D	SF		C	1932	.60	.60			
HALE	14	1931	1942D	1933	N21	W18	.449	8336	13.5	11D	SF	1	P	1933	.26	.30			T
CULG	14	2229	0112	2300	N25	W60	.888	8334	10.4	163	SN		C	2300	.31	.67			H
LOCK	14	2255	2345	2310	N27	W59	.885	8334	10.5	50	SF		C	2310	.40	.80		10	J
CULG	15	0051	0210	0142	N22	W22	.500	8336	13.4	79	SN		P	0142	.83	.92			
LOCK	15	0117E	0200	0125	N24	W20	.501	8336	13.6	43D	SN		C	0125	1.00	1.10		10	
HALE	15	0125	0155	0127	N23	W21	.500	8336	13.5	30	SN	1	C	0127	.41	.50			FJ
KAND	15	0636	0736		N24	W22	.520	8336	13.6	60	SN		C						
KAND	15	0735	0740		N29	W64	.920	8334	10.5	5	SF		C						
HALE	15	1620	1628	1621	N24	W30	.602	8336	13.4	8	SF	2	C	1621	.25	.30			
LOCK	15	1633	1643	1636	N25	W73	.962	8334	10.2	10	SB		C	1636	.40	1.00		30	
SACP	15	1633	1645	1636	N24	W72	.957	8334	10.3	12	SF		C		.68	1.44			
MEUD	15	1634	1643		N26	W70	.949	8334	10.4	9	SN		C	1635	.26				D
MCMA	15	1635	1640D		N24	W74	.966	8334	10.1	5D	SF		C	1636	.26	.80			D
HALE	15	1635	1643	1637	N24	W73	.962	8334	10.2	8	SN	1	C	1637	.21				T
LOCK	15	1749	1756	1753	N26	W77	.978	8334	10.0	7	SF		C	1753	.40	1.20		10	
LOCK	15	1920	1950	1930	N24	W30	.602	8336	13.6	30	SF		C	1930	.40	.50		10	J
HALE	15	1923	1942	1926	N23	W35	.649	8336	13.2	19	SN	1	C	1926	.37	.50			F
LOCK	15	1940	2010	1950	N26	W77	.978	8334	10.0	30	SF		C	1950	.30	.80		10	
HALE	15	2118	2130	2121	N24	W73	.962	8334	10.4	12	SF	1	C	2121	.21				T
LOCK	15	2120	2130	2125	N26	W77	.978	8334	10.1	10	SN		C	2125	.60	1.70		20	
SACP	15	2120	2142	2125	N23	W76	.973	8334	10.2	22	1F		C		.86	2.07			
HUAN	15	2122	2127D		N23	W75	.970	8334	10.3	5D	SN	1	P	2126	.31				D
HALE	15	2253	2301	2257	N23	W73	.961	8334	10.5	8	SF	1	C	2257	.21				T
MANI	15	2255	2306	2258	N27	W72	.959	8334	10.6	11	SN	2		2258	.15	.36			
CULG	16	0013	0026	0019	N25	W80	.986	8334	10.0	13	SB		C	0019	.41				
LOCK	16	0017	0027	0019	N25	W76	.974	8334	10.3	10	SN		C	0019	.60	1.70		20	
HALE	16	0018	0025	0020	N23	W78	.980	8334	10.2	7	SF	1	C	0020	.26				T
KAND	16	0515	0615		S25	W02	.441	8338	16.1	60	SN		C						
ARCE	16	0900E			N24	E90	1.000	8344	23.1		SN		C	0900	.17	.90			
HALE	16	1633	1646	1636U	N34	E10	.562		17.4	13	SF	1	P	1636	.36	.40			
HUAN	16	1816	1819	1817	N17	E14	.359	8340	17.8	3	SF	2	C	1817	.25	.25			D
MCMA	16	2032	2045	2034	N24	W47	.776	8336	13.3	13	SF		C	2034	.62	1.00			EH
MCMA	16	2121	2131	2122	N18	E14	.371	8340	17.9	10	SN		C	2122	.26	.30			D
CULG	16	2133E	2212D	2150	N25	W90	1.000	8334	10.1	39D	SN		P	2150	.21				

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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.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	1966 JUNE																		
LOCK	16	2137	2218	2148	N26	W83	.993	8334	10.7	41	SN		C	2148	.40	1.40		10	
LOCK	16	2340	0005	2346	N26	W83	.993	8334	10.8	25	SF		C	2346	.20	.70		10	
SALT	17	1345E	1355		N17	E07	.296	8340	18.1	10D	SF	3		1350	1.60	1.70		160	E
SACP	17	1513	1529	1520	N18	E04	.296	8340	17.9	16	SF		C		.76	.77			
MCMA	17	1516	1529	1523	N18	E04	.296	8340	17.9	13	SF		C	1523	.41	.41			EJ
LOCK	17	1718	1741	1726	N20	E69	.939	8344	22.9	23	SN		C	1726	.60	1.40		10	
MCMA	17	1725	1733	1728	N22	E72	.956	8344	23.1	8	SN		C	1728	.26	.80			D
SACP	17	1725E	1741	1727	N22	E70	.946	8344	23.0	16D	SN		P		.59	1.18			
HALE	17	1725	1745	1728	N21	E69	.940	8344	22.9	20	SN	2	C	1728	.41				K
HALE	17			1735															
OTTA	17	1728E	1741		N21	E74	.964	8344	23.3	13D	SN	2	C	1731	.11				
OTTA	17	1730E	1735		S17	W02	.315	8338	17.6	5D	SF	1	C	1731	.29	.31			
MCMA	17	1850E	1945		N18	E04	.296	8340	18.1	55D	SN		C	1910	.46	.50			EH
LOCK	17	1918	1937	1930	N17	E04	.280	8340	18.1	19	SF		C	1930	.40	.42		10	H
SACP	17	1928E	1935	1928U	N18	E04	.296	8340	18.1	7D	SN		P		.34	.34			
MCMA	17	2045	2100D	2048	N18	E04	.296	8340	18.2	15D	SN		C	2048	.77	.80			EH
LOCK	17	2105	2140	2124	N17	E04	.280	8340	18.2	35	SF		C	2124	.20	.21		10	H
MONT	18	0725	0745D		N18	W08	.316	8340	17.7	20D	SN			0740	1.03	2.00			
KAND	18	0700	0739		N17	W09	.309	8340	17.6	39	SN		C						
KAND	18	0700	0810		N23	W65	.917	8336	13.4	70	SB		C						
CATA	18	0713E	0750D	0738	N24	W65	.918	8336	13.4	37D	1B		C	0738	1.57			282	
KANZ	18	0713E	0800	0731	N25	W65	.920	8336	13.4	47D	SN			0731			2.60		D
MONT	18	0718	0800	0722	N18	W67	.925	8336	13.3	42	1B			0730	1.65	2.50			
CAPS	18	0723E	0747		N23	W70	.946	8336	13.1	24D	SN	3		0728	.50	1.30		170	FG
ISTA	18	0725E	0755		N13	W65	.909	8336	13.4	30D	1								
WEND	18	0746E	0815D		N25	W69	.942	8336	13.1	29D	1F		V		4.13				
WEND	18	1043	1052		N25	W70	.947	8336	13.2	9	SF								
MONT	18	1055	1110		N18	W08	.316	8340	17.9	15	SN			1100	1.03	2.00			
MONT	18	1117			N18	W08	.316	8340	17.9		SN			1118	1.03	2.00			
SACP	18	1316	1329	1320	N22	E60	.881	8344	23.1	13	SN		C		.60	.94			
MCMA	18	1936	1950	1940	N18	W12	.349	8340	17.9	14	SF		C	1940	.26	.30			D
LOCK	19	0002	0012	0004	N19	W61	.884	8339	14.4	10	SN		C	0004	.30	.60		10	
LOCK	19	0023	0038	0030	N19	W61	.884	8339	14.4	15	SF		C	0030	.20	.40		10	
MANI	19	0434	0441D	0438	N17	W17	.388	8340	17.9	7D	SF	2		0438	.52	.55			
UCCL	19	0919E			N22	E53	.823	8344	23.4		SN		P						D
CATA	19	0920E	1005D	0926	N20	W18	.431	8340	18.0	45D	SB		C	0926	1.04	1.20		234	
KAND	19	0921	0958		N19	W18	.420	8340	18.0	37	SN		C						
KAND	19	0921	1050		N19	W14	.379	8340	18.3	89	1B		C	0942		2.20			
CAPS	19	0928E	1004		N16	W20	.414	8340	17.9	36D	SF	3		0933	1.40	1.50		153	GE
HERS	19	0936E	0952D	0936U	N18	W22	.457	8340	17.8	16D	SN		P	0937	1.44	1.60			E
KANZ	19	0940E	1005		N17	W19	.412	8340	18.0	25D	1N								
CLMX	19	1455	1511	1459	N21	E41	.701	8344	22.7	16	SF		C	1459	.30	.36			
MCMA	19	1456	1508	1500	N22	E42	.716	8344	22.8	12	SN		C	1500	.52	.70			EH
CULG	20	0333	0357	0338	N18	W30	.555	8340	17.9	24	SN		C	0338	.72	.87			
MANI	20	0341E	0352D		N18	W34	.604	8340	17.6	11D	SF	1		0350	.41	.52			
KAND	20	0908E	0935		N19	W30	.561	8340	18.1	27D	SN		C						
SALT	20	0910E	0920		N17	W30	.549	8340	18.1	10D	1N	3		0915	1.80	2.20		175	CE
ARCE	20	0913E	0923D	0915	N16	W35	.607	8340	17.8	10D	SN		C	0915	1.40	1.70			
HUAN	20	1245	1256	1249	N18	E00	.283	8353	20.5	11	SF	2	C	1249	.31	.31			D
CAPS	20	1247E	1300D		N16	E03	.254	8353	20.8	13D	SF	3		1255	1.50	1.50		150	CG
SALT	20	1255E	1305D		N21	E03	.336	8353	20.8	10D	SN	3		1255	1.20	1.20			
KAND	20	1255	1331		N18	W11	.336	8352	19.7	36									
KAND	20	1347	1415																

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 JUNE																		
HUAN	22	1216	1232		N23	W63	.903	8340	17.8	16	SF	1	C	1220	.21	.33			E
KANZ	22	1337E	1345		S22	E33	.644	8348	25.0	8D	SF								D
HUAN	22	1556	1613		S24	E31	.638	8348	25.0	17	SF	1	C	1603	.37	.42			E
MCMA	22	1558	1644	1605	S24	E32	.648	8348	25.1	46	SN		C	1605	.52	.70			E
LOCK	22	1559	1610D	1607	S24	E33	.658	8348	25.1	11D	SN		C	1607	.50	.70		10	J
MCMA	22	1819	1905	1833	N27	E15	.485	8344	23.9	46	SB		C	1833	.52	.60			EH
HUAN	22	1821	1900	1832	N26	E17	.488	8344	24.0	39	SF	2	C	1832	.62	.63			E
HALE	22	1823E	1903	1826U	N26	E15	.472	8344	23.9	40D	SN	2	P	1826	.72	.80			F
SACP	22	1831E	1853	1834	N26	E16	.480	8344	24.0	22D	SF		P		1.02	1.07			
HUAN	22	1947	2003	1951	N23	E29	.577	8350	25.0	16	SF	2	C	1951	.25	.27			E
MCMA	22	2019	2023D		S24	E30	.628	8348	25.1	4D	SN		C	2023	.36	.50			D
MCMA	22	2045E	2055D		N27	W08	.443	8345	22.3	10D	SF		C	2055	.21	.21			D
LOCK	22	2126	2150	2132	S24	E33	.658	8348	25.4	24	SN		C	2132	1.00	1.30		10	J
HUAN	22	2128	2137	2132	S23	E28	.600	8348	25.0	9	SN	2	C	2132	.21	.22			D
HALE	22	2132	2136	2133	S21	E26	.562	8348	24.8	4	SN	2	C	2133	.31	.40			
LOCK	22	2130	2205	2138	N25	E16	.467	8344	24.1	35	SN		C	2138	1.00	1.10		20	
HUAN	22	2132	2154	2137	N27	E16	.492	8344	24.1	22	SN	2	C	2137	.60	.61			E
HALE	22	2135	2205	2137	N26	E13	.457	8344	23.9	30	SN	2	C	2137	.52	.60			E
SACP	22	2136E	2206	2137	N26	E14	.464	8344	23.9	30D	SF		P		.95	.99			
MCMA	22	2150E	2210		N27	E15	.485	8344	24.0	20D	SN		C	2152	.26	.30			E
SACP	22	2152	2240	2210	N31	E65	.926	8355	27.8	48	1F		C		1.45	2.64			
LOCK	22	2152	2300	2205	N27	E68	.937	8355	28.0	68	SF		C	2205	1.20	2.80		10	L
HUAN	22	2154	2220D		N28	E68	.938	8355	28.0	26D	SF	1	P	2210	.25				E
LOCK	22	2228	2244	2232	N25	E16	.467	8344	24.1	16	SF		C	2232	.40	.42		10	
LOCK	22	2345	2400	2350	S24	E33	.658	8348	25.5	15	SF		C	2350	.30	.40		10	
SACP	23	0048	0059	0050	S25	E27	.610	8348	25.1	11	SF		C		.34	.38			
LOCK	23	0048	0102	0050	S27	E27	.628	8348	25.1	14	SN		C	0050	.90	1.20		20	
CULG	23	0049	0101	0050	S26	E26	.610	8348	25.0	12	SB		C	0050	.21	.25			
LOCK	23	0201	0212D	0204	S24	E24	.572	8348	24.9	11D	SB		C	0204	1.40	1.70		30	
MANI	23	0201E	0214	0203	S24	E22	.554	8348	24.7	13D	SB	2		0203	.31	.38			
CULG	23	0514	0541	0521	N20	W68	.932	8340	18.1	27	SN		C	0521	.21				
KAND	23	0703	0714		N22	W68	.933	8340	18.2	11	SN		P						
MANI	23	0735E	0759		N22	W13	.402	8345	22.3	24D	SN	1		0736	1.34	1.38			
ARCE	23	0925	0950	0945	N24	W15	.445	8345	22.3	25	1N		C	0945	3.41	3.80			
ONDR	23	0942	0957		N24	W14	.437	8345	22.4	15	1N		V	0948			2.50		CH
KIEV	23	0940E	1000D	0945	N26	W06	.419	8344	23.0	20D	1N		C	0945	4.13	5.00		60	G
HUAN	23	1154	1209	1158	N22	W75	.968	8340	17.9	15	SN	2	C	1158	.31				D
HUAN	23	1239	1249	1245	S26	E22	.575	8348	25.2	10	SF	2	C	1245	.21	.22			DH
KAND	23	1240	1255		S26	E25	.601	8348	25.4	15	SN		C						
MCMA	23	1241	1253	1245	S25	E23	.573	8348	25.3	12	SN		C	1245	.26	.40			DH
MCMA	23	1313	1324	1319	S24	E22	.554	8348	25.2	11	SN		C	1319	.41	.50			EH
HUAN	23	1316	1327	1319	S26	E21	.567	8348	25.1	11	SF	1	C	1319	.21	.22			DH
MCMA	23	1352	1356	1353	S25	E23	.573	8348	25.3	4	SB		C	1353	.21	.21			DH
MCMA	23	1458	1514	1503	S25	E22	.564	8348	25.3	16	SN		C	1503	.21	.21			DH
LOCK	23	1607	1630	1613	N22	W01	.343	8344	23.6	23	SF		C	1613	.40	.42		10	J
LOCK	23	1642	1702	1651	N21	W03	.330	8344	23.5	20	SF		C	1651	.60	.70	.00	10	J
LOCK	23	1715	1734	1720	N22	W03	.346	8344	23.5	19	SF		C	1720	.40	.42		10	
MCMA	23	1805	1810	1807	S25	E22	.564	8348	25.4	5	SF		C	1807	.41	.50			E
HUAN	23	1805	1810	1808	S25	E17	.524	8348	25.0	5	SF	1	C	1808	.25	.26			D
LOCK	23	1805	1812	1808	S26	E18	.543	8348	25.1	7	SN		C	1808	.70	.80		10	
HALE	23	1806	1812	1809U	S24	E16	.504	8348	25.0	6	SN	2	P	1809	.41	.50			J
LOCK	23	1830	1840	1833	S26	E18	.543	8348	25.1	10	SF		C	1833	.60	.70		10	
MCMA	23	1831	1837	1833	S25	E22	.564	8348	25.4	6	SF		C	1833	.31	.40			D
KAND	24	0655	0720		N29	E90	1.000	8358	1.0	25	1B		C						
ARCE	24	0855E	0955D		N25	W30	.601	8345	22.1	60D	1N		C	0930	2.05	2.50			H
ARCE	24	0901E			N10	E90	1.000	8358	1.1		SN		C	0901	.29	1.70			
MEUD	24	1051E	1113D		N20	E48	.768	8353	28.1	22D	SN		C	1051	.36	.60			E
KAND	24	1145E	1211		N26	W23	.539	8345	22.8	26D	SN		C						
SACP	24	1426	1442	1432	N34	E90	1.000	8361	1.4	16	SB		C		.42				
MCMA	24	1430	1437	1434	N34	E90	1.000	8361	1.4	7	SB		C	1434	.26				
LOCK	24	1634	1647	1637	S25	E06	.465	8348	25.1	13	SN		C	1637	.50	.60		10	J
HALE	24	1637	1652	1641	S22	E04	.413	8348	25.0	15	SF	1	C	1641	.41	.50			C
MCMA	24	1656	1735	1707	N26	W33	.639	8345	22.2	39			C	1707	.31	.40			EHK
MCMA	24			1713							SN			1713	.41	.60			EHK
MCMA	24	1810	1855		N22	W14	.409	8344	23.7	45	SF		C	1812	.62	.70			F
MCMA	24	1937E	1943D	1938	N22	W14	.409	8344	23.8	6D	SN		C	1938	.41	.50			E
HALE	24	2305	2314	2308	N14	E77	.974	8358	30.7	9	SB	2	C	2308	.26				D
MANI	25	0118	0125	0120	N21	W19	.445	8344	23.6	7	SF	2		0120	.26	.29			
HALE	25	0208	0220	0210	N14	E77	.974	8358	30.9	12	SN	2	C	0210	.15				
CULG	25	0208	0238	0213	N13	E82	.990	8358	1.2	30	SN		C	0213	.41				
CULG	25	0549	0605	0555	N30	E88	.999	8361	1.8	16	SN		C	0555	.21				
CULG	25	0530	0613	0540	S21	E03	.396	8348	25.5	43	SN		C	0540	.21	.22			CH
CULG	25	0558	0635	0607	S22	E00	.409	8348	25.2	37	SN		C	0607	.21	.22			CL
CULG	25	0631	0635	0632	S22	E00	.409	8348	25.3	4	SN		C	0632	.21	.22			CL
KAND	25	0645	0700		N24	W24	.528	8344	23.5	15	SN		V						
KAND	25	0745	0847		N30	E80	.986	8361	1.3	62	SN		V						
ARCE	25	0800E	0910D		N21	W28	.547	8344	23.2	70D	SN		C	0800	1.33	1.60			H

SOLAR FLARES

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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.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	1966 JUNE																		
KAND	25	0904	0940		N24	W24	.528	8344	23.6	36	SN		C						
KAND	25	0912	1017		N30	E80	.986	8361	1.4	65	1B		C						
MEUD	25	0959E	1004D		N32	E80	.986	8361	1.4	5D	1N		C	1000	1.03				C
KANZ	25	1005E	1009D		N32	E80	.986	8361	1.4	4D	SF								G
SACP	25	1226	1240D	1233	S25	W05	.463	8348	25.1	14D	SB		P		.52	.54			
KANZ	25	1350E	1410D		N26	W40	.710	8345	22.6	20D	SF								B
MCMA	25	1405	1437	1409	N25	W45	.754	8345	22.2	32	SB		C	1409	.77	1.20			E
HUAN	25	1421E	1435		N31	E80	.986	8361	1.6	14D	SF	1	C	1432	.25				
MCMA	25	1429	1438	1432	N33	E84	.994	8361	1.9	9	SN		C	1432	.26				D
HUAN	25	1509	1536		N31	E80	.986	8361	1.6	27	SF	1	C	1517	.21				D
LOCK	25	1523	1700	1550	S25	W09	.478	8348	25.0	97	1B		C	1550	3.00	3.30		30	L
SACP	25	1524	1711U	1541	S24	W09	.463	8348	25.0	107U	1B		P		4.24	4.46			
MEUD	25	1525	1618D	1543	S23	W08	.444	8348	25.0	53D	1B		C	1543	2.48	2.70			LUZ
CLMX	25	1525	1639	1551	S23	W09	.449	8348	25.0	74	1B		C	1551	2.80	2.80			
HUAN	25	1525	1639	1538	S24	W08	.459	8348	25.0	74	1N	2	C	1538	1.86	1.91			H
MCMA	25	1525	1655	1543	S25	W10	.482	8348	24.9	90	1B		C	1543	2.58	2.80			FH
LOCA	25	1527	1620	1540	S24	W08	.459	8348	25.0	53	1N		V	1540	1.89	2.10			
KANZ	25	1530E	1550D		S25	W10	.482	8348	24.9	20D	2N								EF
SACP	25	1600	1642D	1619	S21	W13	.445	8348	24.7	42D	SF		P		.85	.88			
SACP	25	1534	1642U	1550	N33	E77	.978	8361	1.4	68U	1N		P		.85	2.12			
LOCK	25	1827	1847	1833	S22	W11	.445	8348	24.9	20	SN		C	1833	.90	1.00		10	H
HALE	25	1828	1843	1832	S18	W10	.382	8348	25.0	15	SF	1	C	1832	.41	.50			H
LOCK	25	2328	2358	2340	N26	W47	.777	8345	22.5	30	SF		C	2340	.90	1.40		10	
CULG	26	0002	0015	0006	N22	W36	.645	8344	23.3	13	SN		C	0006	.62	.78			L
LOCK	26	0003	0025	0008	N21	W35	.628	8344	23.4	22	SN		C	0008	1.10	1.40		20	H
MITK	26	0005	0015	0008	N26	W36	.668	8344	23.3	10	SN		C	0008	.72	1.00		140	D
IKOM	26	0030E	0100		N34	W50	.832	8345	22.3	30D	1F		V	0035	1.65	2.80		85	E
LOCK	26	0034	0100	0040	N22	W32	.599	8344	23.6	26	1N		C	0040	2.00	2.60		20	L
MITK	26	0038	0051	0039	N23	W32	.606	8344	23.6	13	1N		C	0039	1.86	2.30		140	F
IKOM	26	0038E	0052D	0040	N21	W30	.569	8344	23.8	14D	SF		V	0040	1.13	1.40		96	E
MANI	26	0040E	0050		N21	W32	.593	8344	23.6	10D	SN	2		0045	.72	.88			
MANI	26	0320E	0332		N24	W46	.760	8345	22.7	12D	SN	2		0325	.83	1.27			
MANI	26	0618E	0629	0620	N21	W31	.581	8344	23.9	11D	SN	1		0620	.36	.44			
KAND	26	0618	0643D		N23	W37	.661	8344	23.5	25D	SN		P						
KAND	26	0640	0643D		N10	E63	.891	8358	1.0	3D	SN		P						
MCMA	26	1518	1635	1525	N24	W39	.688	8344	23.7	77	SN		C	1525	.41	.60			EK
MCMA	26			1545										1545	.72	1.00			EK
LOCK	26	1928	1939	1932	S26	W32	.668	8348	24.4	11	SN		C	1932	.80	1.10		10	
HALE	26	1930	1938	1935U	S21	W26	.566	8348	24.9	8	SF	1	C	1935	.41	.50			T
CULG	26	2305	2325	2311	S23	W27	.595	8348	24.9	20	SN		C	2311	.52	.62			
CULG	26	2346	2352	2350	S23	W28	.605	8348	24.9	6	SN		C	2350	.31	.39			
CULG	27	0011	0034	0017	N28	W40	.719	8344	24.0	23	SN		C	0017	.31	.42			
CULG	27	0050	0116	0102	N23	W45	.745	8344	23.7	26	SN		C	0102	1.03	1.50			L
MANI	27	0219E	0222D		N21	W45	.738	8344	23.7	3D	SN	1		0221	.62	.92			
HALE	27	0436	0500D	0438	N29	W62	.903	8345	22.5	24D	SN	1	P	0438	.26	.60			T
HALE	27	0455	0500D	0457	N28	W62	.901	8345	22.6	5D	SN	1	P	0457	.21	.50			T
CATA	27	0500E	0520D	0506	N20	W50	.786	8344	23.5	20D	SN			0506	.83	1.30		186	
KAND	27	0520E	0645		S24	W33	.663	8348	24.7	85D	1N		C	0535		2.60			
ARCE	27	0840E	0920D		S26	E14	.522	8359	28.4	40D	SN		C	0900	1.27	1.50			H
MCMA	27	1122E	1227D	1138	S26	E13	.516	8359	28.4	65D	SN		C	1138	.46	.50			EK
HUAN	27	1423	1444	1433	N28	W48	.792	8344	24.0	21	SF	1	C	1433	.31	.40			E
CAPS	27	1435E	1447		N22	W50	.792	8344	23.9	12D	SN	3		1438	.70	1.10		164	G
LOCA	27	1440E	1545	1500	N26	W42	.728	8344	24.5	65D	1N		V	1500	1.89	2.70			
OTTA	27	1451E	1537		N25	W46	.763	8344	24.2	46D	2N	1	C	1502					F
HUAN	27	1455	1534	1502	N27	W49	.798	8344	23.9	39	SN	1	C	1502	.41	.54			E
CAPS	27	1500	1542		N22	W51	.801	8344	23.8	42	1N	3		1505	1.40	2.20		170	G
LOCK	27	1520E	1550	1520U	N27	W46	.771	8344	24.2	30D	1N		C	1520	1.40	2.20		10	
OTTA	27	1748	1800D		N24	W72	.954	8345	22.3	12D	SN	1	C	1755	.23				
LOCK	27	1750	1805	1755	N26	W73	.960	8345	22.3	15	SF		C	1755	.30	.80		10	
HALE	27	2250	2258	2253	S22	W36	.679	8348	25.3	8	SF	1	C	2253	.26	.40			
LOCK	27	2355	0115	0020	N27	W58	.871	8344	23.6	80	2N		C	2420	3.50	7.00		20	L
HALE	28	0001	0130	0020U	N24	W59	.873	8344	23.6	89	2B	1	C	0020	3.71	7.50			TF
HALE	28	0200	0220	0207	N25	W67	.928	8344	23.1	20	SF	1	C	0207	.21				T
	28	0600	0605	NO FLARE PATROL															
KAND	28	0655E	0714		S23	W45	.774	8348	24.9	19D	SN		C						
MANI	28	0658E	0717	0659	N34	E45	.792	8361	1.7	19D	1B	2		0659	2.81	4.51			
CAPS	28	0702E	0711D		N35	E42	.774	8361	1.4	9D	SF	3		0705	.60	.80		151	E
MEUD	28	0721	0723D		S22	W45	.770	8348	24.9	2D	SF		C	0722	.21	.30			D
KANZ	28	0725E	0728D		S21	W45	.765	8348	24.9	3D	SF								D
KANZ	28	0842E	0851		N24	W57	.857	8344	24.1	9D	SF								D
KANZ	28	0924E	0930D		N26	W82	.990	8345	22.2	6D	SF								
MCMA	28	1341	1345D		N15	E31	.545	8358	30.9	4D	SN		C	1344	.21	.21			DH
KANZ	28	1404E	1521D		N21	W84	.994	8345	22.3	77D	1N								E
KANZ	28	1535E	1603D		N36	E39	.757	8361	1.6	28D	1N								FH
HUAN	28	1526	1616	1534	N37	E51	.849	8362	2.5	50	SF	1	C	1534	.95	1.35			E
MCMA	28	1550E	1554D		N38	E52	.859	8362	2.6	4D	1B		P	1550	1.03	2.10			F
HUAN	28	1605	1618	1610	N28	W88	.999	8345	22.1	13	SF	2	C	1610	.21				D

SOLAR FLARES

JUNE 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 JUNE																		
KANZ	28	1611E	1615D		N21	W84	.994	8345	22.4	4D	1N								D
HUAN	28	1710	1724	1718	N27	W88	.999	8345	22.1	14	SN	2	C	1718	.31				D
LOCK	28	1715	1727	1718	N29	W82	.990	8345	22.6	12	SN		C	1718	.40	1.40		10	
LOCK	28	1745	1820	1752	N29	W82	.990	8345	22.6	35	SF		C	1752	.40	1.40		10	
LOCK	29	0100	0130	0110	N15	E24	.449	8358	30.8	30	SF		C	0110	.50	.60		10	
KAND	29	0435E	0520		N13	E21	.394	8358	30.8	45D	SN		P						
ISTA	29	0750E	0930D		N31	W90	1.000	8344	22.6	100D	S								
KAND	29	1025	1115		N28	E29	.609	8361	1.6	50	1B		C	1041		2.40			
MEUD	29	1028	1041D	1031	N32	E26	.619	8361	1.4	13D	SN		C	1031	.88	1.10			E
KAND	29	1040	1120D		N22	W75	.966	8344	23.8	40D	SN		C						
KAND	29	1103	1115		N13	E21	.394	8358	1.0	12	SN		C						
LOCK	29	1700	1740	1710	N16	E15	.341	8358	30.8	40	SN		C	1710	1.40	1.50		20	
MEUD	29	1701E	1719D		N15	E15	.330	8358	30.8	18D	SF		C	1709	.98	1.00			CE
MCMA	29	1701	1817	1718	N17	E16	.363	8358	30.9	76	1B		C	1718	1.86	2.10			F
HUAN	29	1702	1741	1708	N16	E16	.353	8358	30.9	39	SF	2	C	1708	.36	.36			E
HUAN	29													1730	.21	.21			
LOCK	29	1933	2000	1938	N16	E15	.341	8358	30.9	27	SN		C	1938	1.10	1.20		20	
HUAN	29	1934	1947	1939	N16	E14	.329	8358	30.9	13	SN	2	C	1939	.52	.50			E
MCMA	29	1934	1955	1939	N15	E15	.330	8358	30.9	21	SB		C	1939	.52	.52			E
MANI	29	2329	2352	2335	S23	W22	.551	8359	28.3	23	SN	1		2335	.33	.36			
MANI	30	0115	0130	0119	S23	W62	.911	8348	25.4	15	1N	2		0119	1.29	2.65			
SIBE	30	0220	0255	0228	S23	W00	.434	8377	30.1	35	1F		C	0228	1.52				E
MANI	30	0227	0239D	0237	S23	W63	.917	8348	25.4	12D	1B	2		0237	2.40	5.10			
MITK	30	0228	0255	0232	S25	W68	.948	8348	25.0	27	1N		C	0232	1.34			160	F
HALE	30	0229	0243	0237U	S22	W67	.939	8348	25.1	14	SN	1	P	0237	.26				
CULG	30	0231E	0308D		S22	W66	.933	8348	25.2	37D	SB		P	0231	.52				
KODA	30	0232	0240	0232	S23	W66	.935	8348	25.2	8	1N		C	0232	1.61		2.08		
TACH	30	0352	0357	0354	N37	E21	.634	8362	1.7	5	1N		C	0354	1.28	1.70		88	
MANI	30	0403	0414	0406	S22	W64	.922	8348	25.4	11	SN	2		0406	.65	1.34			
KAND	30	0630	0652		N22	W90	1.000	8344	23.5	22	SB		C						
CULG	30	0624	0641D	0637	S23	W70	.955	8348	25.0	17D	SB		P	0637	1.24				
KAND	30	0630	0650		S23	W73	.968	8348	24.8	20	SN		C						
MANI	30	0635	0656	0641	S23	W66	.935	8348	25.3	21	1B	2		0641	1.40	3.10			
CAPS	30	0638E	0645		S23	W70	.955	8348	25.0	7D	SF	3		0645	1.20			145	
MANI	30	0718	0807	0735	N22	W89	.999	8344	23.6	49	SN	2		0735	.26	.84			
ARCE	30	0810	0835D	0810	N34	E37	.726	8362	3.1	25D	1N		C	0810	1.36	2.00			H
KHAR	30	0812E	0835	0815	N37	E35	.731	8362	3.0	23D	1N		V	0821	3.40	4.70	1.60		DHO
MEUD	30	0813E	0821D		N35	E35	.716	8362	3.0	8D	SN		C	0816	.41	.50			CEH
ISTA	30	0813E	0825D		N38	E39	.767	8362	3.3	12D	S								
KAND	30	0815	0820		N29	E27	.598	8367	2.4	5	SN		C						
MEUD	30	1428	1434	1430	N35	E32	.693	8362	3.0	6	SF		C	1430	.31	.40			D
MCMA	30	1428	1436	1429	N35	E33	.701	8362	3.1	8	SN		C	1429	.52	.70			D
MCMA	30	1914	1947	1916	N15	E02	.215	8358	1.0	33	SN		C	1916	.26	.26			D
HUAN	30	1953	2004	1955	S26	W78	.986	8348	25.0	11	SF	1	C	1955	.25				D
MCMA	30	1954	2006	1956	S27	W80	.991	8348	24.8	12	SN		C	1956	.41				D
LOCK	30	2155	2225	2210	S24	W82	.994	8348	24.8	30	SF		C	2210	.30	1.10		10	H
HUAN	30	2200	2219	2205	S26	W80	.991	8348	24.9	19	SF	1	C	2205	.25				D
	ADDENDA																		
	1966 FEB																		
UCCL	21	1109	1113D	1110	N22	W03	.488	8171	21.2	4D	SN		C	1110	.77	1.00			D
UCCL	22	0902	0920D	0912	N28	E75	.986	8177	28.0	18D	1N		C	0912	2.06				DH
UCCL	22	1009	1015		N28	E75	.986	8177	28.0	6	SN		P	1009	1.03				DH
UCCL	22	1201	1202D		N26	E75	.984	8177	28.1	1D	SN		P	1201	.52				D
UCCL	22	1249	1256D		N23	W20	.586	8171	21.0	7D	SN		C	1250	.52	.80			D
	1966 APR																		
UCCL	05	0929	0932D		N23	W34	.699	8223	2.8	3D	SN		P	0929	.31	1.00			D
UCCL	06	1616E	1632D		N33	E80	.996	8251	12.7	16D	1N		P						E
UCCL	12	1358E	1402D		N20	W85	.999	8240	6.2	4D	1N		P						D
UCCL	26	0754E	0754D		N28	E85	.999	8283	2.7				P						D
	1966 MAY																		
ATHN	02	0712E	0725	0715	S23	W20	.455	8282	30.8	13D	SN	2		0715	.99	1.10	1.60		
ATHN	02	1155	1203	1156	S25	W23	.506	8282	30.8	8	SN	2		1156	.50	.60	1.20		
ATHN	03	1225	1237	1228	N29	W63	.932	8278	28.8	12	SN	2		1228	.67	1.30	1.90		
ATHN	03	1446	1501	1450	N24	W62	.917	8278	29.0	15	SN	2		1450	.66	1.80	1.60		
ATHN	03	1458	1514	1500	N17	E41	.714	8285	6.7	16	SN	2		1500	.76	1.10	1.50		
ATHN	04	0620	0633	0622	N26	W66	.942	8278	29.3	13	SN	2		0622	.60		1.50		
UCCL	04	1201E	1213D		N21	W10	.450	8284	3.8	12D	1		P						D
ATHN	05	0847E	0853	0849	N27	W46	.809	8279	1.9	6D	SN	2		0849	.50	.80	1.50		
ATHN	05	1221	1227	1222	N27	W48	.825	8279	1.9	6	SF	2		1222	.33	.60	1.30		
ATHN	05	1414E	1426	1415	N22	W85	.998	8278	29.2	12D	SN	2		1415	.17		1.40		

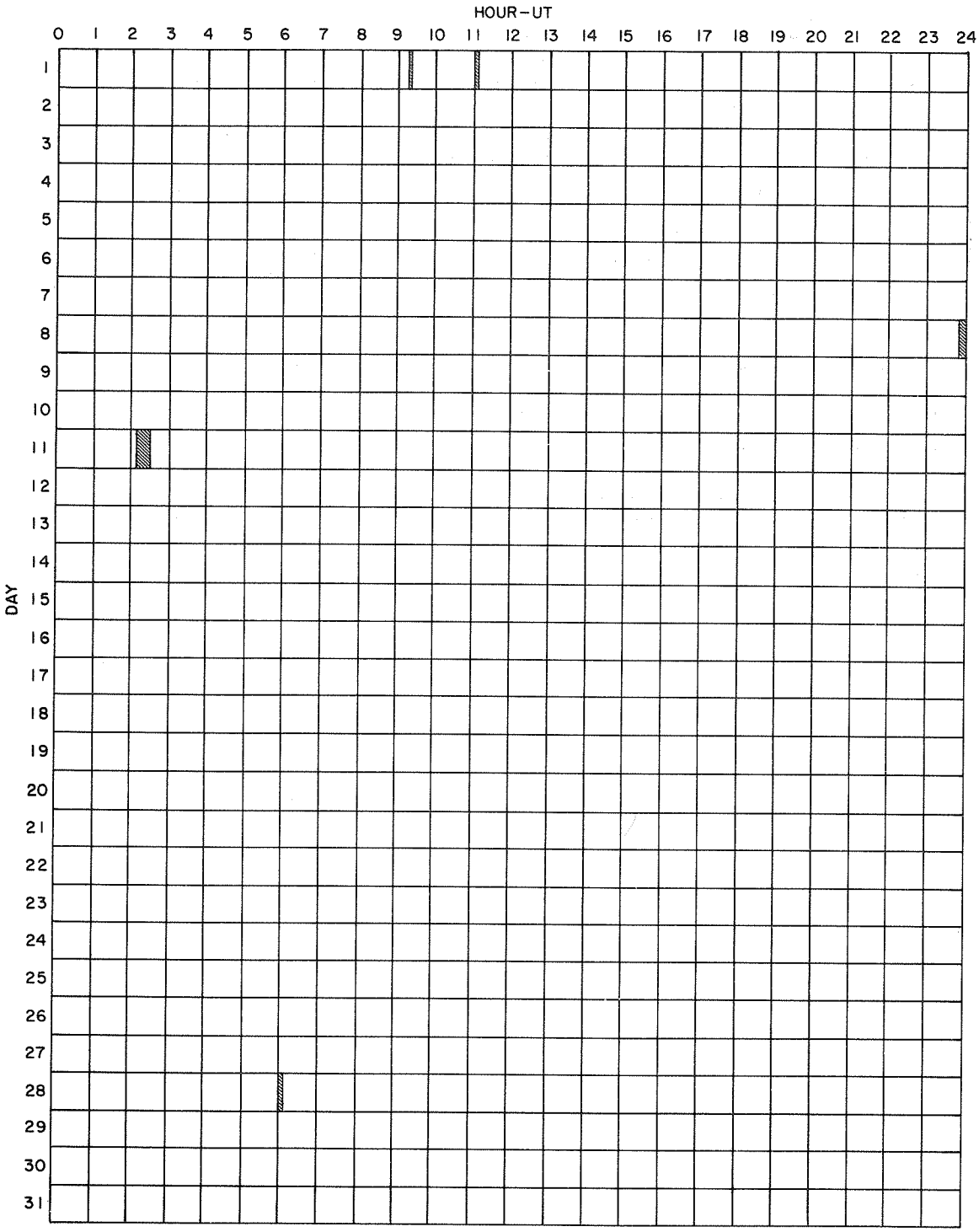
SOLAR FLARES

MAY 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 MAY	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
ATHN	08	1250E	1302	1252	N22	W61	.905	8284	4.0	12D	SF	1		1252	.50	1.10	1.50		
ATHN	09	0912E	0921	0915	N22	W76	.979	8284	3.7	9D	SN	2		0915	.50		1.60		
ATHN	09	1204E	1209	1204	N28	E21	.606	8289	11.1	5D	SF	2		1204	.99	1.30	1.10		
UCCL	12	1023E	1028D		N21	E90	1.000	8301	19.2	5D	S		P						D
ATHN	14	0500E	0518	0501	N23	W17	.510	8296	12.9	18D	SN	3		0501	1.32	1.50	1.60		
ATHN	14	0707E	0713	0709	N23	W18	.518	8296	12.9	6D	SN	3		0709	.43	.50	1.30		
ATHN	14	0827	0834	0829	N22	W17	.498	8296	13.1	7	SN	2		0829	.27	.30	1.30		
ATHN	15	0818E	0822	0818	N23	W29	.618	8296	13.2	4D	SN	2		0818	.72	.90			
ATHN	16	0812	0823	0815	N21	W45	.766	8296	13.0	11	SN	1		0815	.99	1.60	1.50		
UCCL	16	0822E	0826D		N20	W50	.809	8296	12.6	4D	1N		P	0822	1.03				D
UCCL	16	1007E	1012D		N20	W50	.809	8296	12.7	5D	SN		P	1007	.52				D
UCCL	16	1241E			N20	W56	.860	8296	12.3		SN		P						D
ATHN	19	1553E	1615	1553	N19	W32	.615	8294	17.3	22D	1N	2		1553	1.59	2.10	1.50		
ATHN	20	0720E	0737	0720	S20	E07	.328	8302	20.8	17D	SN	2		0720	1.65	1.70	1.80		
ATHN	22	0626E	0631	0627	N18	W74	.968	8294	16.7	5D	SN	2		0627	.33		1.60		
ATHN	23	0430	0440	0433	S18	W30	.554	8302	20.9	10	SF	3		0433	.66	.80	1.30		
ATHN	23	1340E	1355	1345	N25	E43	.760	8312	26.8	15D	SF	2		1345	.66	1.00	1.10		
ATHN	24	0453	0507	0456	N12	E22	.435	8310	25.9	14	SN	2		0456	.50	.60	1.60		
ATHN	24	0556	0608	0558	S19	W46	.746	8302	20.8	12	SN	2		0558	.33	.50	1.80		
ATHN	24	0823	0829	0824	N22	E57	.869	8314	28.6	6	SN	1		0824	.33	.70	1.80		
ATHN	24	0918	0923	0920	S19	W50	.787	8302	20.6	5	SN	1		0920	.33	.50	1.70		
ATHN	24	1134E	1138	1135	S20	W52	.809	8302	20.6	4D	SN	2		1135	.33	.60	1.40		
ATHN	24	1227	1234	1230	S20	W52	.809	8302	20.6	7	SN	2		1230	.33	.60	1.40		
ATHN	24	1312E	1323	1315	N21	E51	.817	8314	28.4	11D	SN	2		1315	.36	.60	1.60		
ATHN	24	1322	1336	1325	N14	E15	.368	8310	25.7	14	SN	2		1325	.53	.60	1.80		
ATHN	24	1414	1432	1416	N11	E19	.387	8310	26.0	18	SB	2		1416	.86	.90	1.90		
ATHN	24	1547E	1605	1549	S20	W53	.818	8302	20.7	18D	SN	2		1549	.33	.60	1.50		
ATHN	25	0508E	0515	0508	N13	E55	.833	8316	29.3	7D	SN	2		0508	.17	.20	1.40		
ATHN	25	0508E	0521	0508	N14	E08	.300	8310	25.8	13D	SF	2		0508	.99	1.00	1.20		
ATHN	25	0532E	0539	0532	N10	E10	.263	8310	26.0	7D	SF	2		0532	.99	1.00	1.30		
ATHN	25	0532E	0552D	0532	S19	W59	.869	8302	20.8	20D	1N	2		0532	2.15	4.40	1.50		
ATHN	25	0622E	0645	0622	N11	E10	.276	8310	26.0	23D	SN	2		0622	.66	.70	1.60		
ATHN	25	0628E	0652	0628	S19	W59	.869	8302	20.8	24D	1N	2		0628	2.15	4.40	1.60		
ATHN	25	0805E	0817	0805	S20	W64	.907	8302	20.5	12D	SN	1		0805	.33	.70	1.50		
ATHN	25	0843E	0901	0843	S20	W64	.907	8302	20.6	18D	1N	1		0843	.99	2.20	1.90		
ATHN	25	0958	1010	1001	S21	W63	.901	8302	20.7	12	SN	1		1001	.33	.80	1.50		
ATHN	25	1002	1014	1004	N14	E06	.286	8310	25.9	12	SN	1		1004	.39	.50	1.40		
ATHN	25	1015	1046	1019	S21	W62	.894	8302	20.8	31	1N	2		1019	1.12	3.40	1.50		
ATHN	25	1045	1145	1050	N19	E17	.446	8310	26.7	60	1N	2		1050	2.48	3.00	1.50		
ATHN	25	1136	1210	1140	S21	W63	.901	8302	20.8	34	1N	2		1140	.92	2.20	1.70		
ATHN	25	1213	1227D	1216	N14	E06	.286	8310	26.0	14D	SF	2		1216	.46	.50	1.40		
ATHN	25	1310	1325	1315	N13	E04	.260	8310	25.8	15	SN	2		1315	.62	.60	1.70		
ATHN	25	1512E	1524	1514	N15	E03	.289	8310	25.9	12D	SN	2		1514	.99	1.00	1.60		
ATHN	25	1531	1553	1535	N13	E04	.260	8310	25.9	22	SB	2		1535	1.65	1.70	2.00		
ATHN	26	0748	0759	0750	N05	E49	.759	8318	30.0	11	SN	1		0750	.50	.80	1.80		
ATHN	26	0952	1005	0957	N12	W05	.247	8310	26.0	13	SB	2		0957	1.52	1.60	2.00		
ATHN	26	1314	1325	1317	N12	W06	.253	8310	26.1	11	SF	2		1317	.20	.20	1.10		
ATHN	26	1348	1353	1350	N12	W06	.253	8310	26.1	5	SF	2		1350	.20	.20	1.10		
ATHN	26	1423E	1427	1423	N12	W07	.261	8310	26.1	4D	SF	2		1423	.15	.20	1.20		
ATHN	26	1558	1607	1601	N12	W07	.261	8310	26.1	9	SN	2		1601	.36	.40	1.40		
ATHN	27	0806E	0824	0809	N24	E18	.511	8314	28.7	18D	SN	2		0809	1.12	1.30	1.70		
ATHN	27	1333	1348	1335	N24	E14	.480	8314	28.6	15	1N	2		1335	2.15	2.40	1.50		
UCCL	27	1349E			S22	W90	1.000	8302	20.8		SB		P						D
ATHN	27	1413E	1422	1414	N04	E32	.536	8318	30.0	9D	SN	1		1414	1.65	1.90	1.70		
ATHN	27	1658	1712	1700	N23	W08	.431	8312	27.1	14	SN	1		1700	1.32	1.40	1.50		
ATHN	28	0425	0510	0430	N03	E24	.412	8318	30.0	45	1B	2		0430	1.98	2.20	1.90		
ATHN	28	0740	0807	0745	N03	E22	.381	8318	30.0	27	1N	2		0745	2.64	2.90	1.40		
ATHN	28	0817	0840	0820	N03	E22	.381	8318	30.0	23	1N	2		0820	2.64	2.90	1.40		
ATHN	28	0903	0908	0905	N23	E05	.417	8314	28.8	5	SN	2		0905	.66	.70	1.10		
ATHN	28	0943	0954	0945	N03	E22	.381	8318	30.1	11	SN	2		0945	.59	.60	1.20		
ATHN	28	1115E	1120	1115	N03	E21	.365	8318	30.0	5D	SF	2		1115	.33	.40	1.10		
ATHN	28	1455	1516	1459	N03	E17	.301	8318	29.9	21	1N	2		1459	2.31	2.40	1.40		
ATHN	28	1540	1721D	1614	N16	W37	.648	8310	25.9	101D	2B	1		1614	8.58	10.70	2.00		
ATHN	29	0538	0548	0540	N31	E12	.559	8315	30.1	10	SN	2		0540	.99	1.20	1.30		
ATHN	29	0557	0605	0600	N05	E10	.202	8318	30.0	8	SN	2		0600	.66	.70	1.20		
ATHN	29	0935E	0938		N26	E50	.822	8320	2.1	3D	SN	1		0935	.50	1.30			
ATHN	29	1628E	1639	1629	N06	E02	.128	8318	29.8	11D	SN	2		1629	.41	.80	1.50		
ATHN	30	1242	1256	1245	S20	E80	.986	8328	5.5	14	SN	2		1245	.66		1.40		
ATHN	30	1425	1431	1426	N30	E49	.829	8329	3.3	6	SN	2		1426	.66	1.10	1.30		
ATHN	31	0525E	0547	0526	N32	E26	.656	8329	2.2	22D	1N	2		0526	2.31	3.00	1.60		
ATHN	31	0747E	0803	0748	N13	E53	.812	8326	4.3	16D	SN	1		0748	.33	.60	1.40		
ATHN	31	1216E	1231D		N32	E28	.671	8329	2.6	15D	SN	2		1218	.66	.90	1.30		

INTERVALS OF NO FLARE PATROL OBSERVATIONS

JUNE 1966



Observatories included:

Abastumani	Culgoora	Kandilli	Lockheed	Monte Mario	Tachkent
Arcetri	Haleakala	Kanzelhöhe	Lvov	Ondrejov	Tortosa
Bakou	Herstmonceux	Kharkov	Manila	Ottawa	Uccle
Capri-S (Swedish)	Huancayo	Kiev	McMath	Sacramento Peak	Vorochilov
Catania	Ikomasan	Kodikanal	Meudon	Salonique	Wendelstein
Climax	Istanboul	Locarno	Mitaka	Siberie	Zürich

SOLAR RADIATION MONITORING SATELLITE
X-RAY

Aberdeen, South Dakota — SEPTEMBER 1966

OUTSTANDING EVENTS					
DATE	TIMES OF OBSERVATION	44-60A	8-20A	0-8A	0-3A
Sept. 12	1050 1055	$>2.1 \times 10^{-1}$	$>4.8 \times 10^{-2}$	$>1.3 \times 10^{-2}$	----
	1237 1243	----	4.8×10^{-2}	5.5×10^{-3}	4.4×10^{-5}
14	1133 1142	1.6×10^{-1}	1.0×10^{-2}	7.5×10^{-4}	9.9×10^{-6}
17	1005 1010	$*>4.8 \times 10^{-1}$	$*6.3 \times 10^{-2}$	$*2.2 \times 10^{-2}$	----
18	1450 1500	$*>6.5 \times 10^{-1}$	$*3.1 \times 10^{-1}$	$*>7.9 \times 10^{-2}$	----
19	1234 1242	$* 6.3 \times 10^{-1}$	$*2.2 \times 10^{-2}$	$*6.4 \times 10^{-3}$	----

* Validity of these values doubtful due to large aspect angle.

No observations were made from September 1-10 and 20-30 because the aspect angle of the satellite made it unuseable.

Flux observed on the 8-20A band is reported here instead of the 8-12A band as previously reported. The values are directly proportional to one another.

SOLAR RADIATION MONITORING SATELLITE

X-RAY

NRL

JULY 1964

NRL SOLAR X-RAY DATA (FINAL)
OBSERVING TIMES FOR JULY 1964

1	0128	0200	15	0020	0044	18 (cont'd)	1410	1435	22	0112	0141
	0316	0343		0119	0135		1543	1609		0258	0327
	0500	0531		0153	0222		1734	1812		1302	1311
	0845	0900		0339	0405		1920	1936		1444	1500
	1328	1343		0535	0552		1943	1959		1631	1644
	1513	1529		1204	1220		2111	2127		2349	0004
	1700	1713		1351	1405		2224	2238			
	1834	1905		1523	1553		2314	2322	28	0035	0050
	2022	2036		1710	1742					1352	1408
	2201	2220		1852	1930	19	0011	0022		1534	1553
	2350	0007		2149	2158		0057	0113		1720	1735
				2228	2259		0230	0302		2113	2123
2	0010	0025					0427	0443		2259	2313
	0138	0154	16	0014	0041		1242	1257			
	0324	0353		0130	0142		1417	1444	29	0042	0058
	0438	0450		0216	0232		1558	1633		0226	0242
	0511	0527		0359	0419		1742	1822		0417	0426
	0657	0722		0544	0602		1936	1951		1215	1231
	0843	0859		1028	1043		2120	2136		1402	1418
	1710	1724		1213	1229		2305	2333		1544	1603
	1844	1859		1400	1416					1730	1745
	2030	2046		1537	1603	20	0018	0034		1920	1952
	2210	2226		1717	1752		0052	0122		2033	2049
	2348	0004		1900	1918		0239	0310		2106	2134
				1925	1939		0425	0441		2219	2234
3	0000	0017		2054	2103		0624	0631		2308	2325
	0137	0203		2111	2126		0920	0934			
	0348	0403		2242	2254		1104	1120			
	0520	0549					1251	1304	30	0050	0103
	0718	0733	17	0024	0054		1425	1441		0237	0246
	0855	0908		0138	0151		1611	1627		1223	1241
	1040	1051		0225	0235		1759	1812		1409	1427
	1345	1401		0358	0421		1940	1959		1553	1609
	1532	1545		0555	0608		2149	2200		1616	1631
	1711	1734		1037	1053		2241	2258		1744	1751
	1840	1922		1222	1239		2315	2331		1929	1945
	2040	2054		1406	1424		2330	2343		2116	2144
	2213	2236		1543	1558					2302	2334
				1730	1747	21	0028	0042			
14	0013	0022		1911	1929		0102	0131	31	0048	0114
	0158	0213		2102	2117		0248	0319		0235	0254
	0348	0358		2215	2228		0435	0450		0729	0743
	0516	0533		2247	2311		0621	0635		0913	0930
	1012	1024					1113	1129		1101	1114
	1154	1211	18	0000	0016		1300	1316		1236	1303
	1341	1357		0048	0103		1431	1450		1418	1452
	1519	1544		0220	0253		1621	1636		1602	1618
	1659	1718		0407	0433		1802	1840		1757	1827
	1842	1905		0554	0611		1953	2027		1906	1919
	2023	2045		1046	1102		2138	2154		2124	2154
	2207	2235		1203	1213		2251	2307		2238	2249
	2333	2348		1232	1245		2340	2354		2311	2344

NRL SOLAR X-RAY DATA (FINAL)
DAILY AVERAGE X-RAY FLUX FOR JULY 1964

DATE	44-60A	8-12A	0-8A
1	2.41×10^{-2}	$< 1.2 \times 10^{-4}$	$< 1.1 \times 10^{-4}$
2	2.19×10^{-2}	$< 2 \times 10^{-4}$	$< 1.8 \times 10^{-4}$
3	1.90×10^{-2}	$< 4 \times 10^{-4}$	$< 4 \times 10^{-4}$
14	1.88×10^{-2}	$< 8 \times 10^{-4}$	$< 5 \times 10^{-4}$
15	2.19×10^{-2}	$< 2 \times 10^{-4}$	$< 1.5 \times 10^{-4}$
16	2.69×10^{-2}	$< 1.5 \times 10^{-4}$	$< 1.2 \times 10^{-4}$
17	2.82×10^{-2}	$< 1.2 \times 10^{-4}$	$< 1.0 \times 10^{-4}$
18	2.90×10^{-2}	$< 1.1 \times 10^{-4}$	$< 1.0 \times 10^{-4}$
19	2.69×10^{-2}	$< 1.5 \times 10^{-4}$	$< 1.2 \times 10^{-4}$
20	2.28×10^{-2}	$< 2 \times 10^{-4}$	$< 1.5 \times 10^{-4}$
21	2.02×10^{-2}	$< 5 \times 10^{-4}$	$< 3 \times 10^{-4}$
22	1.35×10^{-2}	$< 2.5 \times 10^{-3}$	$< 1.0 \times 10^{-3}$
28	1.98×10^{-2}	$< 2.5 \times 10^{-3}$	$< 1.2 \times 10^{-3}$
29	2.05×10^{-2}	$< 7 \times 10^{-4}$	$< 4 \times 10^{-4}$
30	2.17×10^{-2}	$< 3 \times 10^{-4}$	$< 2 \times 10^{-4}$
31	2.41×10^{-2}	$< 2 \times 10^{-4}$	$< 1.5 \times 10^{-4}$

NO OUTSTANDING EVENTS WERE
OBSERVED IN JULY 1964

The above data are revisions of data published in CRPL-FB-244, December 1964.

SOLAR RADIATION MONITORING SATELLITE
X-RAY

NRL

AUGUST 1964

NRL SOLAR X-RAY DATA (FINAL)
OBSERVING TIMES FOR AUGUST 1964

1	0058	0139	5	0004	0013	9	0026	0051	21	0030	0043
	0244	0310		0135	0159		0212	0226		0337	0354
	0922	0930		0858	0913		0852	0907		0533	0539
	1104	1110		0930	0945		1030	1041		0606	0622
	1234	1300		1117	1129		1209	1243		0702	0726
	1426	1446		1135	1150		1353	1431		0754	0808
	1610	1633		1318	1336		1541	1618		0844	0914
	1803	1836		1502	1537		1915	1944		1033	1104
	1915	1929		1653	1727		2102	2134		1212	1228
	2004	2012		1806	1819		2248	2318		1234	1251
	2100	2117		1838	1854					1408	1435
	2143	2204		1951	2008	10	0035	0059		1604	1613
	2333	2349		2035	2101		0858	0901		1700	1717
				2139	2150		1036	1051		1734	1803
2	0116	0130		2211	2244		1221	1237		1930	1947
	0253	0317		2358	0005		1408	1424		2107	2133
	0440	0452					1557	1610		2143	2156
	0746	0801	6	0008	0037		1758	1801		2254	2316
	1016	1032		0125	0137		1939	1954	22	0711	0722
	1110	1122		0144	0210		2123	2141		0850	0909
	1243	1309		0637	0653		2307	2323		1039	1113
	1434	1456		0822	0836	11	0044	0100		1227	1243
	1619	1634		0907	0923		0807	0823		1607	1624
	1644	1700		1005	1026		0903	0911		1744	1816
	1811	1827		1054	1108		1044	1100		1945	1958
	1914	1929		1139	1213		1231	1302		2116	2143
	2013	2023		1330	1403		1417	1451		2154	2205
	2109	2126		1511	1527		1602	1634		2302	2317
	2143	2214		1847	1912		1809	1812	23	0215	0225
	2330	0002		2034	2104		1949	2005		0355	0412
				2223	2254		2134	2150		0440	0454
3	0116	0141					2307	2333		0544	0558
	0612	0624	7	0017	0059		2350	2324		0625	0642
	0756	0811		0153	0218					0719	0745
	0842	0854		0916	0932	18	1853	1926		0903	0934
	0943	0957		1010	1022		2055	2106		1053	1115
	1116	1144		1104	1117		2236	2251		1232	1245
	1254	1333		1149	1209					1253	1309
	1443	1522		1334	1356	19	0826	0840		1442	1452
	1630	1708		1528	1541		1010	1027		1622	1634
	1820	1836		1825	1839		1158	1232		1753	1823
	1933	1949		1913	1923		1342	1354		1940	2206
	2005	2033		2058	2113		1402	1418		2126	2142
	2153	2225		2239	2258		1731	1744		2312	2326
	2340	0006					1829	1842			
			8	0016	0033		1911	1942	24	0552	0607
4	0126	0142		0054	0105		2057	2129		0728	0741
	0312	0326		0202	0225		2235	2300		0909	0927
	0621	0634		0512	0525	20	0021	0034		1055	1112
	1034	1050		0925	0941		0703	0716		1242	1301
	1130	1141		1014	1032		0832	0851		1632	1643
	1308	1327		1158	1218		1018	1052		1817	1832
	1458	1515		1341	1421		1202	1242	31	0553	0608
	1645	1659		1529	1608		1357	1410		0832	0903
	1942	1958		1720	1736		1538	1601		1404	1413
	2031	2043		1906	1922		1726	1754		1544	1606
	2127	2141		2019	2034		1912	1944		1722	1754
	2216	2221		2053	2120		2058	2126		1908	1924
	2358	0014		2239	2306		2244	2300		2053	2118

NRL SOLAR X-RAY DATA (FINAL)
DAILY AVERAGE X-RAY FLUX FOR AUGUST 1964

DATE	44-60A	8-12A	0-8A
1	2.80×10^{-2}	$< 1.5 \times 10^{-4}$	$< 1.2 \times 10^{-4}$
2	3.11×10^{-2}	2.2×10^{-4}	$< 1.0 \times 10^{-4}$
3	3.11×10^{-2}	1.6×10^{-4}	$< 1.0 \times 10^{-4}$
4	3.12×10^{-2}	2.2×10^{-4}	$< 1.0 \times 10^{-4}$
5	$> 3.17 \times 10^{-2}$	8.2×10^{-4}	$< 1.0 \times 10^{-4}$
6	$> 3.22 \times 10^{-2}$	1.3×10^{-3}	$< 1.0 \times 10^{-4}$
7	$> 3.12 \times 10^{-2}$	$< 1.5 \times 10^{-4}$	$< 1.0 \times 10^{-4}$
8	2.82×10^{-2}	$< 1.5 \times 10^{-4}$	$< 1.2 \times 10^{-4}$
9	2.58×10^{-2}	$< 1.7 \times 10^{-4}$	$< 1.3 \times 10^{-4}$
10	2.51×10^{-2}	$< 3 \times 10^{-4}$	$< 1.4 \times 10^{-4}$
11	2.54×10^{-2}	$< 4 \times 10^{-4}$	$< 3 \times 10^{-4}$
12		$< 1.2 \times 10^{-3}$	$< 5 \times 10^{-4}$
18	3.01×10^{-2}	$< 1.5 \times 10^{-3}$	$< 6 \times 10^{-4}$
19	2.99×10^{-2}	$< 4 \times 10^{-4}$	$< 3 \times 10^{-4}$
20	2.93×10^{-2}	$< 2 \times 10^{-4}$	$< 1.7 \times 10^{-4}$
21	2.93×10^{-2}	$< 1.5 \times 10^{-4}$	$< 1.0 \times 10^{-4}$
22	2.87×10^{-2}	$< 1.2 \times 10^{-4}$	$< 1.0 \times 10^{-4}$
23	2.59×10^{-2}	$< 2 \times 10^{-4}$	$< 1.3 \times 10^{-4}$
24	1.96×10^{-2}	$< 4 \times 10^{-4}$	$< 3 \times 10^{-4}$
31	2.10×10^{-2}	$< 4 \times 10^{-4}$	$< 3 \times 10^{-4}$

NRL SOLAR X-RAY DATA (FINAL)
OUTSTANDING EVENTS FOR AUGUST 1964

DATE	TIME OF OBSERVATION	44-60A	8-12A	0-8A
22	1945 1958	3.3×10^{-2}	3.4×10^{-4}	$< 1.1 \times 10^{-4}$

The above data are revisions of data published in CRPL-FB-244, December 1964.

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

AUGUST 1966

AUG 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
01	2013	2019		5								1	MC BO HA (SERIES OF BURSTS)	
01	2035	2037		5								1	MC BO HA	2030
01	2043	2045		5								1	MC BO HA	2030
01	2045	2047		5								1	MC BO HA	2030
01	2110	2113		5								1	BO HA	
01	2130	2132		5								1	BO MC HA	2133
01	2234	2239		5								1	HA BO	
02	2122	2130	2125	1							15		BO(WWV10-1.5)	
02	2126	2139	2130	1		8	1						BO	
04	0444	0507	0450	1	G 1-								MA	0442
04	0444	0507	0453	1					12				MA(NPG18-12)	
04	0445	0502	0451	1		35	1						MA	
04	1801	1802		4								1	MC BO	
04	1811	1812		4								1	MC BO	
04	1921	1922		4								1	BO MC	
04	2118	2158	2136	5	G 1+								BE AN	2117
05	2316	2328	2318	1		17	1-						MA	
05	2320	2322		2								1	HA	
06	0326	0339	0331	5	G 1-								MA AN	0324
06	0346	0358	0347	5				1-					MA AN	
06	0756	0806	0801	5					14				MA AN	0740
06	1900	2030	1914	1				2-					A3	1900
06	1901	1907	1904	1							10		BO(WWV10-1.0)	
11	1935	1936		5								1	MC BO HA	
11	1937	1939		5								1	MC BO HA	
11	1943	1948		5								2	MC BO HA (DOUBLE BURST)	
12	1633	1634		5								1	MC BO RO	
12	1636	1638		5								1	BO MC RO	
12	1638	1642		5								1	MC RO	
12	1742	1743		5								1	MC BO RO	
12	1756	1802		5								1	MC BO RO (SERIES OF BURSTS)	
12	2116	2117		5								1	HA BO	
14	1822	1824		4								1	BO MC	
14	1824	1825		4								1	BO MC	
14	1825	1828		4								1	BO MC	
14	1842	1843		1								1	MC	
14	1905	1906		1								1	MC	
15	1112	1135	1126	1				1-					RO	
15	1115	1232	1136	1		28	1						RO	
15	2152	2154		5								1	BO HA	
16	2110	2113		5								1	BO MC HA	2123
16	2123	2131	2124	1					03				BO(WWI9-0.3)	2123
16	2252	0004	2255	1							10		MA(NPG18-10)	2246
17	0030	0045	0035	5	G 1+								OK MA TO	0028
17	0030	0210	0033	1							05		BO(KKE42-0.5)	
17	0031	0047	0036	1		15	1						MA	
17	0031	0115	0037	5					53				MA(NPG18-53) HA(WWVL20-22)	
18	1818	1833	1824	2	SL 1-								MC BE	1818
18	1820	1845	1840	1						2			UM	
18	1820	1930	1840	5					47				UM(NPM26-47,NBA24-13) HA(WWVL20-11)	
19	0434	0455	0441	1		8	1						MA	0436
19	0435	0458	0438	1	S 1								MA	
19	0437	0458	0442	1					18				MA(NPG18-18)	
19	1534	1536		4								1	MC BO	
19	1534	1738		4								1	BO MC (NOISE STORM)	
19	1546	1549		4								1	BO MC	
19	1734	1736		4								1	MC BO	
20	1843	2010	1905	1					52				UM(NPM26-52,NBA24-9)	
20	1854	1910	1856	2	SL 1-								MC BE	
21	1504	1506		4								1	BO MC	
21	1514	1516		4								1	BO MC	
21	1609	1704		4								1	BO MC (NOISE STORM)	
23	1625	1628		4								1	MC BO	
23	1630	1631		1								1	MC	
23	1631	1633		1								1	MC (DOUBLE BURST)	1623E
23	1754	1815		5	SL 1-								MC TR	1746
24	1336	2400D		4								1	MC BO (NOISE STORM)	

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AUG 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
24	1520	1522		4								1	BO MC	
24	1522	1524		4								1	BO MC	
24	1707	1708		4								1	MC BO	
24	1710	1713		4								2	MC BO	
24	1713	1714		1								1	MC	
24	1734	1735		1								1	MC	
24	1822	1823		4								1	MC BO	
24	1846	1847		4								1	MC BO	
24	1912	1913		4								1	MC BO	
24	1956	1959		1								1	MC	
24	2002	2004		1								1	BO	
24	2032	2033		4								1	BO MC	
24	2033	2034		4								1	BO MC	
24	2226	2227		4								1	BO MC	2212
25	0621	0645	0625	1				1-					A17	0621
25	0621	0750	0635	1						1			ND	
25	0622	0648	0628	1					36				MA(NPG18-36)	
25	0623	0636	0627	1		16	1-						MA	
25	0623	0643	0627	5	S 1								MA OK	0621
25	1349	1350		1								1	MC	
25	1357	1450	1410	1					38				UM(NSS21-38)	1354
25	1400	1415	1408	5	SL 1-								MC BE HU	
25	1431	1433		1								1	MC	
25	1503	1506		1								1	MC	
25	1554	1555		1								1	MC	
25	1630	1631		1								1	MC	
25	1718	1721		1								1	MC	
25	1739	1745		5								2	BO MC	
25	1801	1802		5								1	BO MC	
26	1412	2012		5								2	BO MC (NOISE STORM)	1413
26	1601	1602		1								1	MC	
26	1602	1604		1								1	MC	
26	1800	1805		5								1+	BO MC AN	1800
26	1800	1915	1835	1						3			UM	1800
26	1800	1950	1837	5					80				UM(NPM26-80) AN(NBZ19-30) HA(WWVL20-22)	
26	1808	1818		5								3	MC BO (DOUBLE BURST)	
26	1810	1855	1830	1	G 1								MC	
26	1812	1816	1813	1							02		BO(WWI11-0.2)	
26	1812	1853	1820	1						1+			A3	1813
26	1819	1821		5								1	MC BO	1813
26	1825	1835		5								2	BO MC	1813
26	1842	1849		5								2	BO MC	1813
26	1849	1853		5								2	BO MC	1813
26	1853	1857		5								2	BO MC	1813
26	2030	2034	2032	1							02		BO(WWI9-0.2)	2028
26	2145	2256	2230	1				1+					A3	2146
26	2150	2215	2210	1								1	AN	
26	2200	0040	2217	5					43				HA(WWVB60-43,WWVL20-22) MA(NPG18-36) AN(NPM26-20)	
26	2200	2255	2230	1						2+			A3	
26	2200	2300	2235	1		**	1						BI	
27	1425	1438	1435	1							02		BO(KKE42-0.2)	
27	1608	1700	1615	1					15				UM(NSS21-15)	1600
27	1610	1621	1615	1	G 1-								MC	
27	1610	1630	1618	5						1-			UM A3	
27	1632	1634		5								1	MC BO	
27	1715	2100		5								1	BO MC HA (NOISE STORM)	1707
27	1855	2000	1910	5					66				UM(NPM26-66,NSS21-18) HA(WWVB60-32,WWVL20-25) AN(NPM26-15)	1855
27	1900	1930	1907	1	SL 1								MC	
27	1900	2000	1915	5						2			UM A3	
27	1900	2030	1913	1				3+					A3	
27	2020	2125	2100	2	G 1+								MC BE	2015
27	2020	2320	2100	5					76				HA(WWVB60-20,WWVL20-36) AN(NPM26-15)	
27	2030	2155	2040	1						3			A3	
27	2033	2258	2108	1				3+					A3	
27	2036	2039		5								1	HA BO MC	2015
27	2039	2040		5								1	HA BO MC	2015
27	2040	2042		5								1	HA BO MC	2015
27	2054	2055		5								1	HA BO MC	2015
28	0046	0128	0055	1	G 1-								MA	0047
28	0303	0325	0314	1				1					ND	
28	0303	0330	0310	1						1			ND	
28	0510	0532	0521	5	SL 1-								OK MA	
28	0513	0543	0530	1					15				MA(NPG18-15)	0512
28	1137		1157	1				1					RO	
28	1140	1310		1				1					RO	

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AUG 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
28	1155	1227	1203	1		40	2						RO	1153
28	1158	1300	1208	1				2					LO	
28	1457	1520	1501	1		16	1						RO	
28	1500	1510	1505	3	SL 1-								BE AN	
28	1523	1600	1527	1							235		BO(WWI11-23.5)	1522
28	1523	1615	1530	5				3					A6 A1 A2 A3 A17 LO RO	
28	1523	1730	1533	5					99				UM(NSS24-208) AN(GBZ19-120,NSS24-90, WWVL20-30) HA(WWVB60-108, WWVL20-47) MA(NPG18-22)	
28	1524	1700	1530	5	S 3+								MC AN BA BE BN BO FM GS HU OK SO SW TO TR WS	
28	1525	1526		5								1	BO RO	
28	1526	1620		5				1					BO RO	
28	1526	1715	1535	1				3					A3	
28	1526	1720	1530	1						2+			A3	
28	1527	1547	1530	5								1	BO AN	
28	1527	1619	1532	5		95	3						BO RO	
28	1632	1634		5								1	BO MC	
28	1637	1650	1640	1							02		BO(WWI11-0.2)	1637
28	1703	1754	1710	1					58				MA(NPG18-58)	
28	1710	2202		5								1	BO MC (NOISE STORM)	
28	2050	2052	2051	1							05		BO(WWI8-0.5)	2047
28	2131	2135	2133	1							15		BO(WWI11-1.5)	2123
28	2132	2337	2135	1					34				HA(WWVB60-34,WWVL20-18)	
28	2200	2201		5								1	HA BO	
28	2201	2202		5								1	HA BO	
28	2204	2206		1								1	HA	
28	2210	2222	2213	1							03		BO(WWI11-0.3)	2210
28	2221	2222		1								1	HA	2216
29	0536	0552	0546	1		12	1-						MA	0536
29	0538	0600	0546	1	G 1-								MA	
29	0539	0610	0551	1					20				MA(NPG18-20)	
29	1315	1323	1317	1							04		BO(WWI11-0.4)	
29	1317	2018		1								1	MC (NOISE STORM)	1318
29	1325	1400	1335	5						2+			RO A18	
29	1325	1445	1340	1					80				UM(NSS24-80)	
29	1330	1337	1332	1							03		BO(WWI11-0.3)	
29	1330	1422		1				1					RO	
29	1332	1430	1336	5	S 2								MC BE BN BO FM SO TR	1332
29	1336	1435	1341	1		33	2						RO	1334
29	1523	1525		1								1	MC	
29	1525	1531		1								3	MC	
29	1531	1555	1532	1			3						MC (NO CALIBRATION)	
29	1536	1550		1								3	MC	
29	1720	1745	1727	1					22				UM(NPM26-22,NSS24-8)	
29	2026	2030		1								2	BO	2021
29	2030	2039		1								2	BO (DOUBLE BURST)	2028
29	2041	2046		1								2	BO	2028
29	2046	2050		1								2	BO	2028
29	2054	2100		1								2	BO	2028
29	2304	2320		1								3	BO	
30	0047	0155	0105	1					72				AN(NPM26-72)	
30	0050	0130	0105	1	S 3								AN	
30	0232	0256	0240	1					14				MA(NPG18-14)	0233
30	0233	0256	0234	1	S 1								MA	
30	1301	1302		1								1	MC	
30	1301	2400D		5								2	BO MC RO (NOISE STORM)	
30	1331	1335		1								1	MC	
30	1335		1340	1			1						MC (NO CALIBRATION)	
30	1435	1440		1								2	MC	
30	1443	1720	1505	1				3					LO	
30	1450	1452		1								1+	MC	1450
30	1450	1630	1505	1					99				UM(NPM26-150,NSS24-108)	
30	1451	1459	1454	1							17		BO(WWV15-1.7)	
30	1455	1535		5				1					BO RO	
30	1455	1545	1515	1						2			UM	
30	1455	1552	1503	5		41	2						BO RO	
30	1455	1554	1517	5	SL 2+								BE BA BO HU MC SO TR WS	
30	1455	1600	1505	5				3					A17 RO	
30	1457	1520	1501	1		16	1						RO	
30	1511	1518	1512	1							15		BO(WWV10-1.5)	1450
30	1545	1552	1546	1							04		BO(KKE42-0.4)	1545
30	1703	1708		1								1+	BO	
30	1720	1740		1								2	BO	
30	1755	1804		1								1+	BO	
30	1817	1822		1								1+	BO	
30	1904	1912		1								1+	BO	
30	1914	1924		1								1+	BO	
30	1925	1934		1								1+	BO	
30	1949	2010		1								2	BO	
30	2024	2050		1								2	MC (SERIES OF BURSTS)	2017
31	0038	0450	0106	5					99				MA(NPG18-133)	0038

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AUGUST 1966

AUG 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
													HA(WWVB60-108, WWVL20-47)	
31	0040	0440	0258	5	G 3								OK AN GH MA NZ	0038
31	0040	0449	0051	1		30	2						MA	
31	1315	2400D		5								1	MC BO (NOISE STORM)	1307
31	1606	1607		1								1	MC	
31	1607	1610		1								1	MC (DOUBLE BURST)	
31	1831	1835	1832	1							05		BO(WWI9-0.5)	1830
31	1836	1920	1906	5	G 2								MC BE HU	
31	1848		1900	5					42				UM(NPM26-42,NSS24-8) HA(WWVL20-22)	1847
31	1850	1856	1851	1							06		BO(WWI9-0.6)	
31	1904	1909	1905	1							02		BO(WWI9-0.2)	1905
31	1905	1935	1912	1						1+			UM	
31	2019	2022		5								1+	BO MC	2013
31	2230	0030	2345	1					15				AN(NPM26-15)	

Manila data for SCNA, SEA and BUR were not received in time for inclusion in the above table.

** in ABS column signifies number in SCNA is db. of absorption and not importance on 1- to 3+ scale.

RIOMETER EVENTS

AUGUST 1966

GREAT WHALE RIVER

30 Mc/s

AUG. 1966	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS	AUG. 1966	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS
01	0048	1300	0358	26	5	19	0112	2050	1152	38	13
03	0308	1040	0519	23	4	20	0247	1018	0253	10	6
03	1420	1837	1659	8	1	21	0223	0840	0550	3	1
04	0340	1937	1235	25	4	22	0000	0000	0000	0	0
┌04	2330					23	0900	*	1209	31	5
└05		*	0847	23	5	┌23	2230				
06	0049	1120	0605	11	6	└24		0734	0132	32	10
┌06	2110					24	1138	2250	1214	22	3
└07		1020	0401	12	10	25	0058	1350	1211	16	7
┌08	2056					25	1759	2158	2125	7	3
└09		1420	0555	11	6	26	0040	0810	0605	40	11
┌09	1850					26	1206	1310	1238	3	2
11			0339			27	*	1124	0637	5	3
└13		1420		31	25	27	1524	2343	1715	8	1
┌13	1900					┌28	0716		1750		
└14		*	0312	25	18	└29		0048		14	2
15	0520	1600	0652	11	3	29	0910	*	2205	25	7
16	0127	0954	0643	10	2	┌30	*		2036		
17	0235	0620	0404	4	1	└31		0910		18	8
18	0333	1410	1045	12	5						

* Time not known due to equipment failure or other cause.

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.

No data:zeros for all values of a day.

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

AUGUST 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	10700	PENN	3	1143.2	1144.1	5.2	78.7	9.8		
	8800	SGMR	45	1143.2	1143.7	4.8	79.0	25.0		
	4995	SGMR	45	1143.2	1143.6	4.3	41.6	8.0		
	2800	OTTA	3	1143	1143.7	1.5	34.0	11.0		
	2700	PENN	3	1143.5	1144.1	4.1	26.9	4.5		
	2695	SGMR	45	1143.5	1143.8	4	24.7	4.0		
	1415	SGMR	3	1143.2	1143.7	1.4	16.8	4.0		
	960	PENN	3	1143.5	1143.8	3.5	11.7	1.5		
	606	SGMR	45	1143.2	1143.7	1.2	87.6	30.0		
	2800	OTTA	30	1144.5		10	4.4	2.2		
	2800	OTTA	1	1146	1147	1.5	5.2	2.6		
	1415	SGMR	3	1151	1151	.3	8.2	1.0		
	2800	OTTA	21	1215	1244	275	3.6	1.8		
	8800	SGMR	3	1236.3	1236.6	.7	19.8	3.0		
	4995	SGMR	3	1236.2	1236.5	1.1	16.0	2.0		
	2800	OTTA	1	1236.3	1236.7	1.5	5.0	2.5		
	2695	SGMR	1	1236.4	1236.8	1.1	4.8	.5		
	8800	SGMR	29	1237	1241	5	7.9	1.0		
	4995	SGMR	29	1237.3	1241	4.7	6.4	1.0		
	2695	SGMR	29	1237.5	1241.2	7.5	2.9	.5		
	2800	OTTA	1	1240.7	1241	1.5	3.6	1.8		
	1415	SGMR	3	1240.5	1241	.7	31.3	6.0		
	606	SGMR	1	1240.5	1240.8	1	6.3	1.0		
	2800	OTTA	1	1303.9	1304	.4	7.0	3.5		
	960	PENN	3	1826.8	1828.7	2.5	13.5	2.9		
	328	PENN	5	1826.7	1827.8	2.9	22.0	11.0		
	960	PENN	1	1831.5	1833	2.7	4.3	2.1		
	960	PENN	3	1842.3	1844.2	12.7	21.7	3.4		
	328	PENN	5	1842.3	1844.3	14	51.3	9.9		
	960	PENN	3	1902.4	1903.6	4	76.0	23.3		
	328	PENN	5	1902	1903.6	4.6	35.5	10.8		
	2800	OTTA	1	2040.8	2041.1	.5	3.2	1.6		
2	8800	SGMR	3	1756.8	1757.6	13.2	3.8	1.2		
	4995	SGMR	3	1757.2	1757.6	11.8	3.8	1.2		
	486	WASH		2333		3	120.0			
3	2800	OTTA	26	1240		140	5.6			
4	2800	OTTA	21	2145	2225	160	2.6	1.3		
	2800	OTTA	2	2147	2142.5	2.5	2.4	1.2		
	2800	OTTA	1	2200	2201	2	1.6	0.8		
6	2800	OTTA	20	1730	1935	280	3.0	2.0		
7	2800	OTTA	20	1540	1640	120	1.8	0.9		
	2800	OTTA	21	2113	2121	60	3.4	1.7		
	2800	OTTA	1	2117.5	2118.3	2	2.4	1.2		
	606	SGMR	41	2129.1	2131.4	2.4	84.2	5.0		
8	4995	SGMR	20	1614.8	1615.7	12.2	7.0	2.6		
	2800	OTTA	21	1615	1618	60	5.0	2.5		
	2800	OTTA	3	1615.5	1615.7	.5	10.0	5.0		
	2695	SGMR	22	1615	1617.5	15	5.8	3.5		
	2700	PENN	24	1905	1907.5	178.6	2.5	2.5		
	4995	SGMR	20	1907.2	1908.4	10.8	7.4	4.0		
	2800	OTTA	3	1907	1908.5	3	12.0	8.0		
	2700	PENN	20	1907.7	1908.5	16.8	9.5	4.8		
	2695	SGMR	3	1906.5	1908.5	7	14.0	5.8		
	1415	SGMR	1	1907.8	1908.6	4.2	3.8	1.7		
	2800	OTTA	29	1910		57	6.0	3.0		
	2695	SGMR	29	1913.5	1913.5	7	2.3	1.4		
	2700	PENN	3	1939.2	1940.6	5.5	12.0	6.0		
	2800	OTTA	20	2340	2350	80	2.6	1.6		
9	2800	OTTA	1	1726	1726.5	1	1.8	0.9		
10	2800	OTTA	20	1200	1300	180 D	3.8	1.9		
	2800	OTTA	21	1605	1842	255	5.2	2.6		
				1605	1730	130	2.4			
				1815	1842	125	5.2			
	8800	SGMR	20	1822	1831.7	58	11.9	4.0		
	4995	SGMR	20	1819.8	1823.8	60.2	6.5	2.0		
	2800	OTTA	2	1821	1824	4	1.6	1.0		
	2700	PENN	20	1818.1	1824.9	44	5.1	2.4		
	2695	SGMR	20	1819.1	1824	60.9	7.1	2.5		
	1415	SGMR	20	1821	1826	39	4.5	2.0		
12	2800	OTTA	26	1230		420	14.0			
	8800	SGMR	40	1559	1607.6	31	11.4	3.5		
	4995	SGMR	40	1546	1602.7	44	6.9	2.0		
	2695	SGMR	40	1546.6	1549.4	43.4	8.2	3.0		
	1415	SGMR	20	1546	1605.4	24	5.3	2.0		
13	1415	SGMR	3	1708.7	1708.8	.5	8.8	3.8		
	606	SGMR	1	1708.1	1708.7	.9	2.5	1.2		
	1415	SGMR	41	1712.8	1713.3	1.7	3.8	1.3		
	606	SGMR	41	1712.9	1714	1.6	2.8	1.2		
14	1415	SGMR	3	1035.2	1040.6	8.3	29.5	16.9		
	606	SGMR	45	1027.4	1041.3	21.6	1501.0	204.9		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

AUGUST 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
	2800	OTTA	21	1825	1838	90	5.0	2.5		
	2800	OTTA	2	1830	1830.3	.5	4.6	2.3		
	2800	OTTA	1	1835	1836.2	3	4.0	2.0		
15	2800	OTTA	20	1512	1519	15	3.0	1.5		
	960	PENN	1	2051.6	2051.8	.3	7.0	3.5		
	328	PENN	5	2051.7	2051.8	.3	22.0	11.0		
	960	PENN	3	2107	2107.5	.9	43.1	9.8		
	328	PENN	5	2106.7	2107.6	1.1	108.2	48.8		
16	2700	PENN	20	1203.8	1206	32	6.5	3.2		
	2800	OTTA	21	1355	1430	100	8.8	4.4		
	2800	OTTA	2	1426	1427	4	12.0	6.0		
	10700	PENN	20	1426	1426.6	25	6.9	3.5		
	2700	PENN	20	1425.4	1427.4	30	10.3	5.1		
	1415	SGMR	40	1426.3	1427.2	4.2	8.2	2.0		
	606	SGMR	40	1426.3	1427.3	3.8	12.2	3.0		
	960	PENN	1	1534.6	1535	1.2	4.5	2.2		
	328	PENN	5	1534.8	1535.4	1.2	56.9	18.7		
	2700	PENN	24	1623	1741	285	3.7	1.9		
	606	SGMR	3	1624.1	1624.2	1.9	9.2	1.5		
	2800	OTTA	21	1625	1800	510	12.0	6.0		
	960	PENN	1	1627	1627.3	1.2	4.5	2.2		
	328	PENN	5	1627.2	1627.4	1	13.5	6.8		
	960	PENN	1	1647.4	1648.2	1.4	5.6	2.8		
	328	PENN	5	1647.2	1648.4	2	25.1	12.5		
	10700	PENN	20	1744.6	1752.6	136	14.6	7.3		
	8800	SGMR	20	1745	1752	35	14.8	3.0		
	4995	SGMR	20	1745	1752.8	35	17.7	4.0		
	2800	OTTA	46	1747.5	1758	27	107.0	18.0		
				1747.5	1753.8	8	40.0			
				1755.5	1758	19	107.0			
	2700	PENN	45	1748.2	1758	178	187.0	8.0		
	2695	SGMR	45	1745	1758	35	116.0	20.0		
	1415	SGMR	40	1745	1753.3	33	46.6	12.0		
	960	PENN	20	1747	1752	28	4.7	2.3		
	606	SGMR	40	1745	1758.5	195	64.2	14.0		
	486	WASH		1744		134 U	120.0D			
	328	PENN	5	1743.6	1752	61	25.9	11.9		
	8800	SGMR	20	1824.8	1831.7	115.2	5.9	1.0		
	4995	SGMR	20	1827.5	1839.5	26.5	8.9	2.0		
	2800	OTTA	4	1827	1832	28	29.0	12.0		
	2695	SGMR	22	1825	1831.9	105	30.2	6.5		
	1415	SGMR	20	1819	1830.6	17	30.2	8.0		
	1415	SGMR	29	1836	1840	144	17.2	2.0		
	2800	OTTA	1	1937	1937.5	1	4.0	2.0		
	2800	OTTA	1	2343	2344.5	3	3.4	1.7		
17	2800	OTTA	20	2025	2047	75	4.6	2.0		
	960	PENN	45	2044.4	2048	5.3	34.3	7.6		
	486	WASH		2048		2	120.0D			
	328	PENN	5	2047.8	2048.2	1.2	26.3	13.1		
	2800	OTTA	21	2320	2345	120	12.0	6.0		
	2800	OTTA	4	2357.5	2358	1.5	16.0	11.0		
	2800	OTTA	29	2359		6	4.2	2.1		
18	2800	OTTA	21	1400	1506	135	6.6	3.3		
	10700	PENN	45	1453	1456.3	44	939.4	89.4		
	4995	SGMR	45	1452.7	1456.6	7.6	423.0	124.0		
	2800	OTTA	4	1453	1456.5	13	300.0	106.0		
	2700	PENN	45	1453.4	1456.6	46	225.3	30.2		
	2695	SGMR	45	1451.8	1456.5	8.5	457.0	95.0		
	1415	SGMR	45	1453.3	1458.7	6.4	300.0	54.5		
	960	PENN	45	1454.4	1502.8	42	87.3	11.5		
	606	SGMR	45	1454	1502.5	10.8	1825.0	534.0		
	4995	SGMR	29	1500.3	1500.3	105.7	23.7	11.9		
	2695	SGMR	29	1500.3	1500.3	105.7	20.6	10.3		
	1415	SGMR	29	1459.7	1459.7	55.9	93.8	46.6		
	606	SGMR	29	1504.8	1504.8	100.8	464.0	232.0		
	328	PENN	5	1500	1503.8	22	52.1	11.7		
	2800	OTTA	1	1702	1702.6	1	2.0	1.0		
	486	WASH		1702		3	95.0			
	2800	OTTA		1752.8	1752.8		7.0			
	4995	SGMR	1	1801	1801.1	.9	3.5	1.8		SPIKE
	2800	OTTA	1	1800.8	1801	1	3.8	1.9		
	2695	SGMR	1	1800.5	1800.9	.8	6.3	3.2		
	1415	SGMR	3	1800.6	1801.2	1.2	8.2	4.1		
	4995	SGMR	21	1858.6	1947	72.4	14.2	6.8		
	4995	SGMR	3	1907.8	1908.1	1	10.3	5.1		
	2695	SGMR	1	1907.8	1908	.5	3.2	1.5		
	2800	OTTA	21	1910	1950	85	7.0	3.5		
	2695	SGMR	21	1922	1950.8	45.5	8.3	4.2		
	2800	OTTA	2	1940.5	1940.6	1	5.0	2.5		
	2695	SGMR	1	1939	1939.5	1.5	5.3	2.6		
	486	WASH		1937		2	35.0			
19	1415	SGMR	1	1147.4	1148.8	1.7	6.3	1.0		
	606	SGMR	1	1147.4	1148	1.7	7.3	1.0		
	8800	SGMR	3	1157.4	1157.5	2.6	159.3	40.0		
	4995	SGMR	1	1157.5	1157.8	2.5	7.4	1.0		
	8800	SGMR	29	1200	1200	6	11.1	3.0		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

AUGUST 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
	4995	SGMR	29	1200	1200	6	1.3	.5		
	2800	OTTA	24	1208		4	13.6			
	8800	SGMR	3	1206.9	1209.2	5.1	269.0	60.0		
	4995	SGMR	3	1206.9	1208.3	4.2	131.0	20.0		
	2800	OTTA	4	1208	1209	4	51.4	25.7		
	2695	SGMR	3	1208	1209.2	4	73.6	15.0		
	1415	SGMR	45	1208	1209	3	709.0	80.0		
	8800	SGMR	29	1212	1212	80	32.9	7.0		
	4995	SGMR	29	1211	1211	81	26.8	5.0		
	2695	SGMR	29	1212	1212	80	17.2	3.0		
	1415	SGMR	29	1211	1211	120	3.1	.5		
	8800	SGMR	20	1410.6	1411.4	27.4	12.4	2.0		
	4995	SGMR	20	1410	1411.3	28	10.1	1.5		
	2695	SGMR	1	1410	1411.2	5	3.3	.5		
	1415	SGMR	1	1411.1	1411.3	.5	3.1	.5		
	606	SGMR	45	1411	1411	.7	80.7	15.0		
	2800	OTTA	21	1515	1540	30	4.6	2.3		
	2695	SGMR	3	1522	1525.3	7	30.0	5.0		
	2800	OTTA	28	1523		2	2.8			
	8800	SGMR	3	1525	1525.7	1.6	20.6	4.0		
	4995	SGMR	3	1524.9	1525.2	5.1	20.2	4.0		
	2800	OTTA	3	1524.8	1525.2	5	22.0	11.0		
	1415	SGMR	40	1523	1528.6	6	12.6	3.0		
	606	SGMR	3	1523	1525.3	2.6	112.0	20.0		
	2800	OTTA	1	1716.7	1717.3	1.5	2.8	1.4		
	2695	SGMR	20	1714.5	1717.4	11.5	50.0	15.0		
	486	WASH		1717		1	100.0			
	2800	OTTA	20	1800	1820	35	4.2	2.1		
	606	SGMR	20	1804.4	1806.3	10.6	39.2	7.0		
	486	WASH		1758		27	115.0			
	2800	OTTA	1	2112	2113.2	2	5.6	2.8		
	2800	OTTA	46	2152	2156.5	8.5	13.2	5.3		
				2152	2156.5	5	13.2			
				2157	2158	3.5	12.4			
	2700	PENN	3	2153.6	2156.8	6.4	13.0	6.5		
	1415	SGMR	20	2154.6	2156.6	9.4	20.7	5.0		
	960	PENN	1	2155	2156.4	3.5	2.4	1.2		
	606	SGMR	20	2154.6	2156.6	9.4	11.2	3.0		
	2800	OTTA	29	2200.5	2200.5	30	7.6	3.8		
	2800	OTTA	1	2210	2211	2	4.8	2.4		
	486	WASH		2250		2	65.0			
	486	WASH		2257		1	55.0			
20	1415	SGMR	20	1047.8	1050.8	10.2	169.3	50.0		
	606	SGMR	22	1047.8	1048.4	12.2	140.8	40.0		
	2800	OTTA	21	1205	1325	250	9.8	4.9		
	8800	SGMR	3	1234.8	1235.8	4.2	12.2	1.5		
	4995	SGMR	1	1234.5	1235.7	4.5	5.6	.5		
	2800	OTTA	3	1235	1235.8	3	9.0	4.5		
	2700	PENN	3	1234.4	1235.8	3.4	12.4	3.0		
	2695	SGMR	3	1231.5	1235.6	8	9.1	1.0		
	1415	SGMR	1	1234.5	1235.7	3	4.1	.5		
	960	PENN	3	1236.2	1236.4	.8	12.8	3.4		
	606	SGMR	41	1234.7	1236.8	2.9	12.4	2.0		
	8800	SGMR	3	1247.5	1247.7	5.5	12.2	1.5		
	4995	SGMR	3	1247.3	1247.7	6.7	8.7	1.0		
	2800	OTTA	45	1247.5	1247.8	1.5	7.6	3.8		
	2700	PENN	3	1247.6	1247.7	2.6	11.1	1.9		
	2695	SGMR	3	1247	1247.7	6	14.3	2.0		
	1415	SGMR	41	1245.8	1248.5	4.2	15.6	2.0		
	960	PENN	3	1248.2	1248.4	.8	9.8	2.7		
	606	SGMR	41	1247	1247.6	2	31.0	5.0		
	2800	OTTA	3	1324	1324.4	1	7.6	3.8		
	2700	PENN	3	1324.3	1324.4	.3	11.8	5.9		
	960	PENN	3	1324	1324.4	.5	99.8	49.9		
	2800	OTTA	1	1326	1326.5	3	2.8	1.4		
	2700	PENN	3	1325.5	1326.3	4.3	8.3	4.1		
	960	PENN	3	1325.9	1326	.4	44.8	15.0		
	960	PENN	3	1342.4	1342.8	.6	87.7	38.3		
	10700	PENN	3	1347.8	1348.1	3.2	39.6	7.2		
	8800	SGMR	45	1347.9	1348.2	4.1	39.8	8.0		
	4995	SGMR	45	1347.8	1348.5	4.7	17.3	4.0		
	2800	OTTA	45	1348	1348.2	3	34.0	17.0		
	2700	PENN	3	1347.9	1348.1	3.7	50.8	7.2		
	2695	SGMR	45	1347.9	1348.1	4.1	65.9	12.0		
	1415	SGMR	45	1347.8	1348.2	2.2	37.0	6.0		
	960	PENN	3	1347.8	1348.5	2.5	130.6	27.0		
	606	SGMR	3	1348	1348.2	1	7.8	1.0		
	8800	SGMR	41	1410	1414	7	12.2	3.0		
	4995	SGMR	41	1410.2	1413.8	5.8	8.7	1.0		
	2800	OTTA	1	1410	1410.6	1.5	4.8	2.4		
	2700	PENN	1	1410.2	1410.6	1.2	4.7	2.4		
	2695	SGMR	41	1410	1414	6	20.8	4.0		
	1415	SGMR	41	1409.6	1414	5.4	14.4	2.0		
	960	PENN	3	1410.4	1410.5	.2	76.8	38.4		
	606	SGMR	41	1410.3	1413.3	3.9	83.7	16.0		
	10700	PENN	1	1413.1	1413.8	1.2	6.1	3.0		
	2800	OTTA	45	1413.4	1414	2	10.4	5.2		
	2700	PENN	3	1413.3	1414	3.3	14.2	3.0		
	960	PENN	45	1413.3	1413.6	.8	26.8	12.0		
	10700	PENN	3	1449.8	1450	3.4	12.2	2.1		
	8800	SGMR	3	1447.3	1450.2	6.5	8.1	1.0		
	4995	SGMR	3	1447.3	1450.2	6.7	8.0	1.0		
	2800	OTTA	40	1447	1450	7	5.6	2.8		
	2700	PENN	3	1448	1450.1	6.4	8.3	1.8		
	2695	SGMR	41	1447.2	1450.1	5.8	10.4	1.0		
	1415	SGMR	41	1449.6	1452.8	3.6	12.3	2.0		

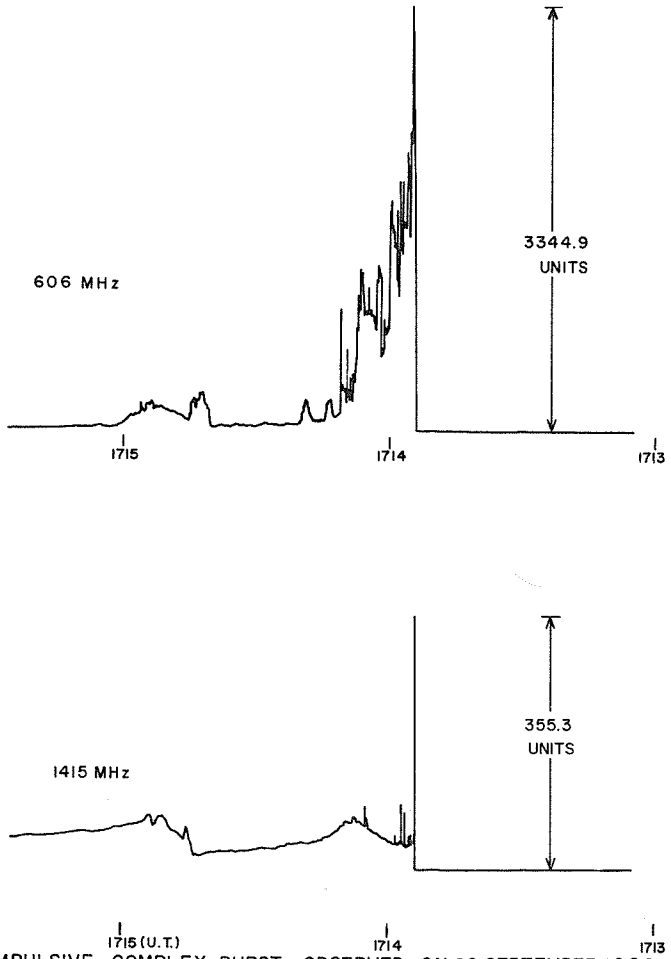
SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

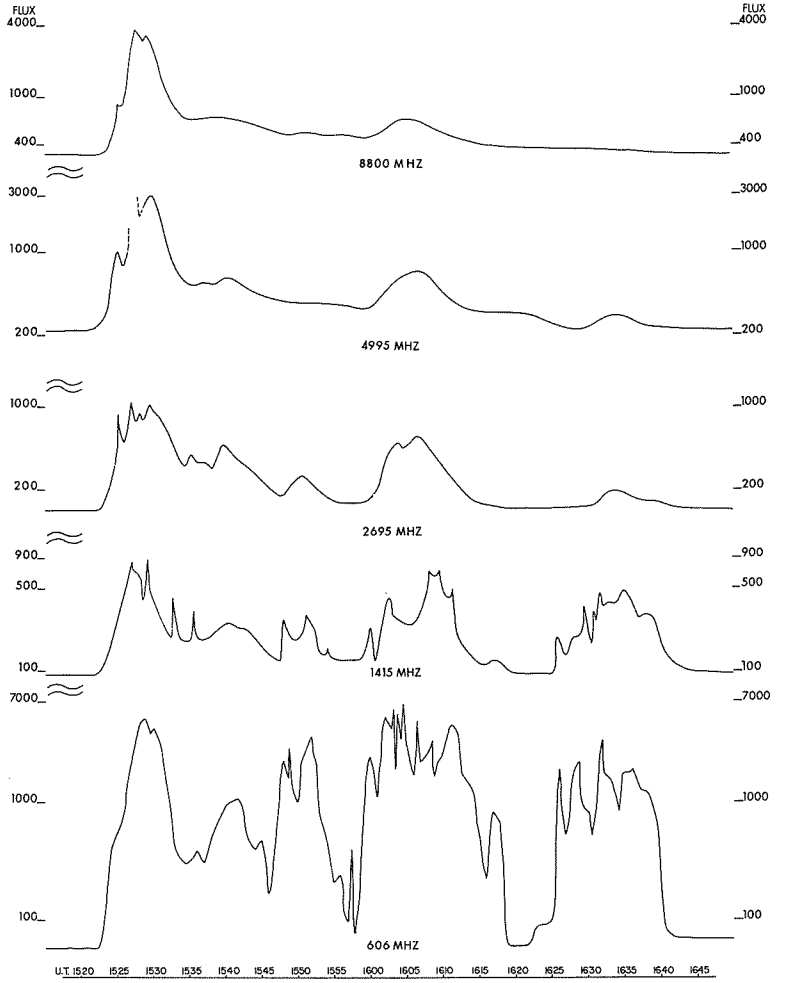
SEPTEMBER 1966

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		
	960	PENN	40	1450	1450.1	2.9	26.8	5.5		
	606	SGMR	41	1447.2	1452.6	6.3	537.2	8.0		
	606	SGMR	45	1452.2	1452.6	.8	537.2	55.0		
	1415	SGMR	45	1459.2	1459.3	.4	20.6	2.0		
	606	SGMR	45	1459.2	1459.4	.4	483.6	40.0		
	10700	PENN	3	1524.8	1525.1	1	15.9	8.0		
	8800	SGMR	3	1524.8	1525.1	7.2	20.3	3.0		
	4995	SGMR	3	1524.8	1525.1	7.2	38.1	3.0		
	2800	OTTA	3	1525	1525.2	4	11.4	5.7		
	2700	PENN	3	1524.8	1525.1	2.2	16.5	5.0		
	2695	SGMR	3	1524.8	1525.1	7.2	20.8	2.0		
	1415	SGMR	1	1524.3	1525.1	1.2	4.9	.1		
	606	SGMR	1	1524.6	1524.7	.9	3.1	.1		
	486	WASH		1615		2	100.0			
	10700	PENN	24	1630	1900	344	52.2	26.1		
	2800	OTTA	21	1625	1830	345	20.2	10.1		
	2800	OTTA	3	1641	1641.3	1	10.4	5.2		
	1415	SGMR	45	1636.2	1643.1	22.8	355.3	17.8		
	10700	PENN	3	1702.8	1704.4	5.8	13.0	6.5		
	2800	OTTA	46	1701.8	1704.7	9	23.8	8.0		
				1701.8	1702.7	1.5	10.4			
				1703.5	1704.7	7.5	23.8			
	2700	PENN	45	1702	1704.2	7.7	26.0	11.8		
	2700	PENN	1	1702.8	1704.4	5.8	5.9	3.0		
	1415	SGMR	46	1701	1704	7	205.7	20.0		
	960	PENN	1	1702.8	1704.2	2.8	1.2	0.6		
	10700	PENN	3	1710.2	1714	33	84.8	16.1		
	8800	SGMR	45	1703.4	1714	70.6	162.4	40.0		
	4995	SGMR	45	1703.8	1714.9	36.2	90.0	30.0		
	2800	OTTA	45	1711.5	1715	39	225.0U	3.2		
				1711.5	1713	2	32.6			
				1714	1715	8	225.0U			
				1722	1724.5	28	53.4			
	2700	PENN	45	1712.2	1714.8	35	257.6	30.9		
	2695	SGMR	45	1641	1714.3	79	261.6	60.0		
	1415	SGMR	46	1708.5	1713.9	25.5	1084.6	50.0		
	960	PENN	45	1711.6	1713.8	7.6	125.6	8.3		
	606	SGMR	45	1712.3	1713.9	32.7	3344.9	33.5		
	486	WASH		1712	1714	290 U	120.0D			
	328	PENN	5	1712.2	1713.9	3.4	341.7	45.2		
	2700	PENN	24	1733	1804	282	21.3	10.6		
	1415	SGMR	29	1734	1734	56	24.7	4.0		
	606	SGMR	29	1745	1745	45	9.3	2.0		
	328	PENN	5	1749.8	1749.8	.3	100.0	50.0		
	606	SGMR	40	1830	2049.2	259 D	18.6	5.0		
	4995	SGMR	3	2021.7	2021.9	1.3	13.8	3.0		
	2800	OTTA	1	2021.5	2022	1	5.8	2.6		
	2695	SGMR	3	2021.6	2022	1.4	8.5	2.0		
	486	WASH		2308		2	95.0			
21	2800	OTTA	20	1300	1325	50	2.6	1.3		
	2800	OTTA	2	1410	1410.9	2	4.4	2.2		
	2800	OTTA	20	1515	1520	40	2.2	1.1		
	2800	OTTA	20	1825	1850	140	4.4	3.5		
22	2800	OTTA	1	1339	1339.3	5	2.2	1.1		
	2800	OTTA	20	1450	1455	180	4.4	3.5		
23	2800	OTTA	24	1420		8	3.6			
	10700	PENN	20	1553.3	1555.2	41	33.4	7.3		
	2800	OTTA	3	1553	1555	5	23.6	11.8		
	2700	PENN	20	1552.2	1555	32	17.3	3.8		
	2800	OTTA	29	1558	1558	52	6.0	3.0		
	10700	PENN	3	1817	1817.7	1	24.6	12.3		
	2800	OTTA	20	1720	1800	150	4.8	2.4		
24	2800	OTTA	20	1810	1940	200	4.6	2.3		
25	2800	OTTA	20		0030	130	3.8	1.9		
	960	PENN	45	1920.5	1921	.8	28.4	9.2		
	328	PENN	45	1920.2	1921.1	1.2	11.2	4.6		
26	10700	PENN	45	1522.6	1522.9	3	42.4	13.1		
	4995	SGMR	45	1523	1523.5	1.8	30.7	9.4		
	2800	OTTA	45	1523	1523.2	3	13.4	6.7		
	2700	PENN	45	1522.5	1522.8	2.3	9.5	4.2		
	2695	SGMR	45	1523	1523.1	1.7	11.9	6.5		
	2800	OTTA	21	1730		270	5.1	4.0		
	4995	SGMR	1	1738.5	1739.1	2.3	6.1	2.3		
	2800	OTTA	1	1739	1739.5	1	4.6	2.3		
	2695	SGMR	1	1738.3	1739.2	2.3	4.2	1.4		
	2800	OTTA	20	2235	2241	60	3.4	1.7		
27	2800	OTTA	20	1235	1455	585	17.0	8.5		
	4995	SGMR	20	1630	1700	90	2.0	.5		
	2695	SGMR	20	1630	1700	90	3.0	1.0		
	1415	SGMR	20	1630	1700	90	4.0	1.0		
	606	SGMR	20	1630	1700	90	3.0	1.0		
29	2800	OTTA	20	1227	1230	10	3.6	1.8		
	2800	OTTA	1	1546	1547.3	3	7.4	3.7		
	2800	OTTA	21	1940	1950	80	3.6	1.8		
	2800	OTTA	1	2006	2007	4	1.6	0.8		
	2800	OTTA	20	2305	2320	45	1.6	0.8		
30	2800	OTTA	21	2300	2315	40	3.0	1.5		
	2800	OTTA	3	2306.5	2307.5	4	9.2	4.6		

SELECTED SOLAR NOISE BURSTS
AFCRL SAGAMORE HILL



IMPULSIVE COMPLEX BURST OBSERVED ON 20 SEPTEMBER, 1966
SAGAMORE HILL RADIO OBSERVATORY (AFCRL) HAMILTON, MASS.



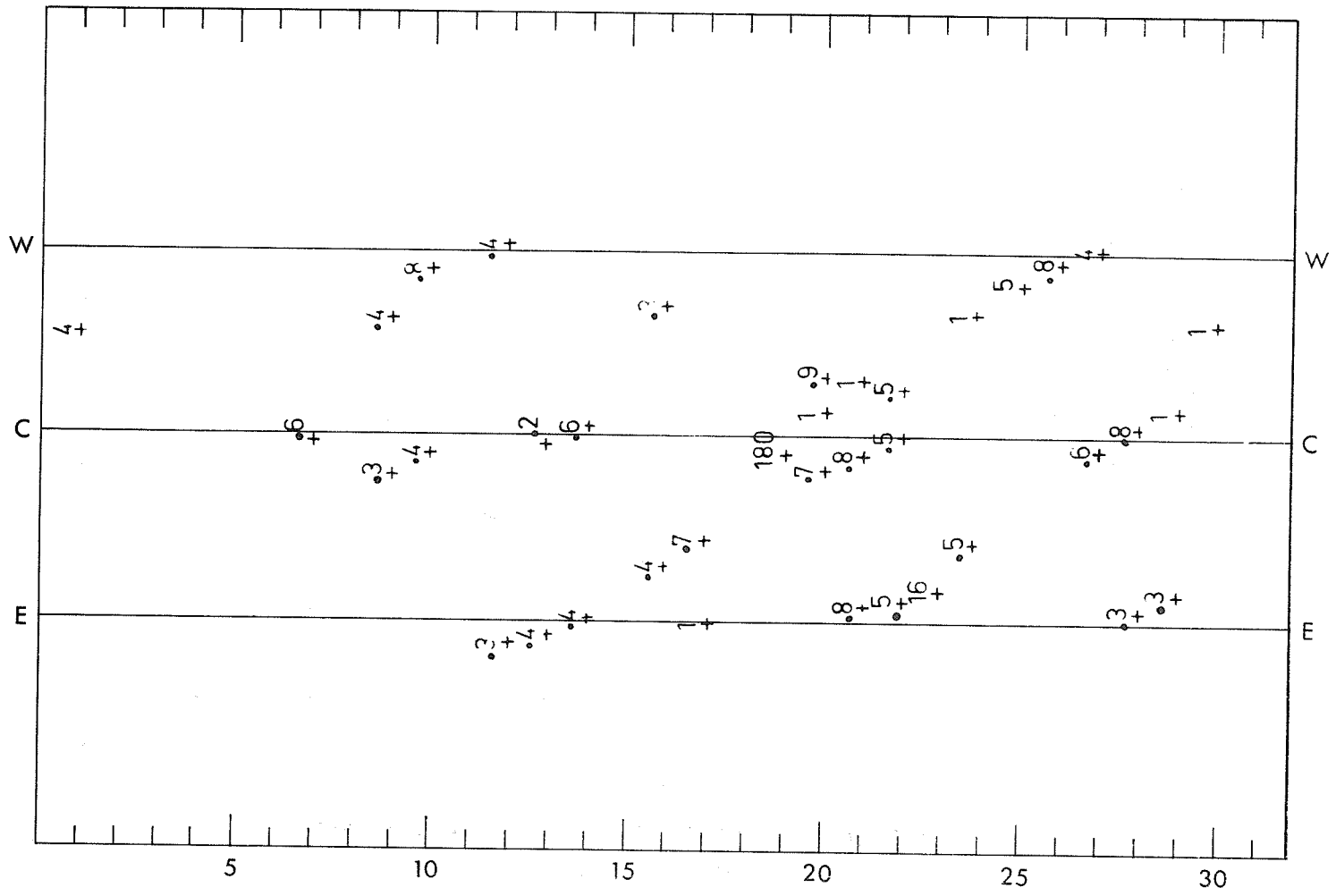
COMPLEX RADIO BURST OF THE SOLAR PROTON EVENT
28 AUGUST, 1966 SAGAMORE HILL RADIO OBSERVATORY (AFCRL) HAMILTON, MASS.

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

SEPTEMBER 1966

NANÇAY

408 Mc/s

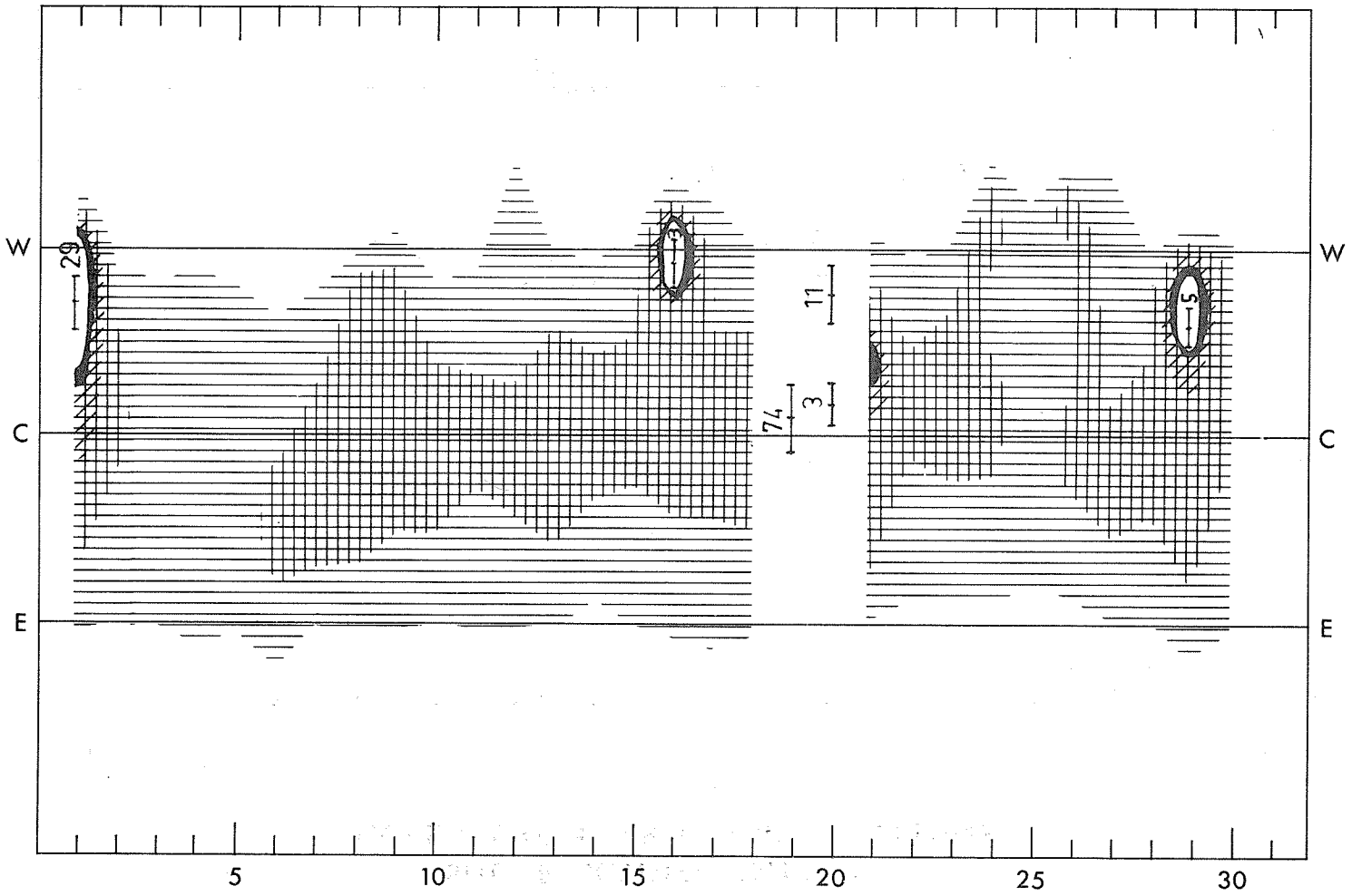


IVF

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

SEPTEMBER 1966

NANÇAY **169 Mc/s**



SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1966

UNIVERSITY OF COLORADO

7.6-41 Mc/s

Date Sep 1966	Bursts				Date Sep 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
1 Sep	continuum	b1225-1352	1-	20-41	4 Sep	III	1250-1251	1+	13-38
	III	1402-1403	2	16-41		III	1253-1253:45	1	12-41
	III	1403-1404	2	16-41		III	1254:45-1255	1	12-31
	III	1414:30-1415	2	16-41		III	1301:30-1302	1	18-41
	III	1441-1442	2+	13-41		III	1302:30-1304:15	1+	14-41
	continuum	1352-1746	1	21-41		II	1452-1528	1	20-41
	continuum	1746-2111	1-	22-41		III	1557:30-1558	1-	21-41
	continuum	2111-a0050	1+	22-41		III	1659:45-1700:15	1-	9-29
2 Sep	III	0003-0004:45	2+	16-41		III	1727:30-1727:45	1-	20-33
	III	1300:30-1301	1	20-41		III	1749-1749:30	1	25-41
	III	1303:45-1304:15	1-	22-29		III	1807:30-1807:45	1-	17-31
	III	1307:15-1307:30	1	20-41		III	1810:15-1811	1-	16-35
	no observ.	1330-1759				III	1955:15-1955:30	1	16-38
	III	1814-1814:15	1+	21-41		III	2042-2042:15	1-	27-41
	III	1815-1815:15	1-	27-41		III	2122:30-2123:15	1-	21-41
	III	1815:30-1815:45	1-	24-35		III	2243:45-2244	1-	19-41
	III	1909:15-1909:30	2	20-41		III	2258:15-2303:30	1	14-41
	III	1912:30-1913	2	21-41		III	2309:30-2310	1	22-41
	III	1931:15-1931:45	1-	24-41		III	2310:30-2310:45	1-	30-41
	III	2053:30-2053:45	1	22-41		III	2338-2339	1	11-40
	III	2104:45-2105	1-	21-39		III	2340:30-2341	1	13-24
	III	2229:15-2229:30	1+	21-41	5 Sep	no observ.	1800-2159		
	III	2230-2230:30	1	21-41	7 Sep	III	1259-1259:15	1-	26-33
	III	2232-2232:45	1	21-41		III	1259:30-1300:30	1	20-35
	III	2233:15-2235:15	1+	11-41		III	1431:30-1431:45	1-	24-41
	III	2240-2240:30	1+	22-41		III	1433:45-1434:15	1-	22-38
	III	2246:45-2247:15	1	21-41		III	1437-1438:30	2	20-41
	III	2255:30-2256	1-	24-41		III	1453:45-1455	2	21-41
	III	2311:30-2312	1-	26-34		III	1455:45-1456:45	1	23-41
	III	2320-2320:30	1	22-41		III	1502:45-1503	1+	22-41
	III	2322:30-2322:45	1	28-41		III	1504:15-1505	2	16-41
	III	2334-2335	1+	20-41		III	1505:30-1507:30	2	23-41
	III	2336-2336:45	1+	21-41		III	1701:15-1701:30	1	26-41
3 Sep	III	0009:15-0009:45	2	13-41		III	1702:45-1703	1-	23-41
	III	0034:45-0035	2	22-41		III	1705:15-1705:30	1	20-41
	III	1329-1330	2	15-41		III	1707:45-1708:15	1	25-41
	III	1444:30-1445:30	1+	23-41		III	1712-1712:15	1-	21-41
	III	1510-1510:15	1-	25-41		III	1713:45-1714	1-	21-41
	III	1511:30-1511:45	1	25-41		III	1716:45-1717:15	1	24-41
	III	1528:45-1529	1	16-41		III	1717:30-1717:45	1-	25-41
	III	1607:45-1608	1-	29-41		III	1718:15-1718:30	1-	25-39
	III	1641:45-1642	1-	25-35		III	1719-1719:15	1-	22-41
	III	1717:30-1718	1-	25-41		III	1719:45-1720	1-	26-41
	III	2247:15-2247:45	1-	24-41		III	1732-1732:15	1-	20-41
	III	2313:15-2313:30	1	22-41		III	1736:15-1736:30	1	22-41
	III	2328:15-2328:45	1	20-41		III	1739:15-1739:30	1-	27-41
	III	2344-2344:30	1	7.6-41		III	1745:30-1745:45	1-	25-35
	III	2347-2348:45	1	21-39		III	1800-1800:15	1-	24-34
	III	2350:30-2350:45	1-	22-31		III	1800:30-1801	1	22-39
4 Sep	III	0020:15-0020:30	1-	22-35		III	1802:45-1803	1	22-41
	III	0036-0036:15	1-	33-41		III	1809:15-1809:45	1+	12-41
	III	0042:15-0045:30	1	22-41		III	1813:45-1814	2	9-41
	III	1243:30-1244:30	1	13-36		III	1844:15-1844:30	1-	24-38
	III	1245-1245:15	1	25-38		III	1845:30-1845:45	1-	25-38
	III	1247:15-1248:15	1	13-41		III	1852:15-1852:30	1	20-41
	III	1248:45-1249:30	1	11-41					

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1966

UNIVERSITY OF COLORADO

7.6-41 Mc/s

Date Sep 1966	Bursts				Date Sep 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
7 Sep	III	1853:30-1854	1-	22-36	8 Sep	III	1705:15-1705:30	1	19-32
	III	1856:30-1857	1	24-38		III	1716-1716:15	2	16-41
	III	1906:45-1907:15	2	7.6-41		III	1730:15-1730:30	1-	21-34
	III	1909:30-1910:15	1	23-41		III	1732-1732:15	1	21-38
	III	1911:15-1912	1	24-36		III	1734-1735	1+	16-41
	III	1920:30-1920:45	1-	27-41		III	1735:45-1736:15	1+	16-41
	III	1922:15-1922:30	1-	24-41		III	1745:45-1746	1-	25-36
	III	1923:45-1924	1-	24-41		III	1749:15-1749:30	1	22-39
	III	1954:30-1955	1+	22-41		III	1755:15-1755:30	1-	23-36
	III	1956-1956:15	1	23-36		III	1756-1756:15	1-	23-38
	III	1957-1958:15	2	7.6-41		III	1756:30-1756:45	1	19-41
	III	2001:15-2001:45	2	7.6-41		III	1757:15-1757:30	1	21-41
	III	2003:30-2004	1+	21-41		III	1802-1802:30	1+	7.6-41
	III	2004:45-2005:30	1	22-41		III	1841:30-1841:45	1-	21-34
	continuum	2007-2018:30	1+	21-41		III	1842:15-1842:30	1-	21-34
	III	2052:45-2053:30	1+	21-41		III	1843:30-1843:45	1-	21-34
	III	2058:15-2058:45	1	20-41		III	1844-1844:15	1-	21-34
	III	2100-2100:15	1	21-39		III	1845:15-1845:30	1-	23-36
	III	2103:45-2104:15	2	12-41		III	1854-1854:15	1	14-38
	III	2104:30-2104:45	1-	23-38		III	1906-1906:15	1	7.6-41
	III	2105:30-2107:45	2	16-41		III	1950:30-1950:45	1-	22-36
	III	2109:30-2110	1	7.6-41		III	1954:30-1956:30	1	13-40
	III	2110:30-2111	2	7.6-41		III	1957-1957:15	1	12-41
	III	2111:15-2111:30	1	18-41		III	2021-2021:30	1-	25-38
	III	2112:15-2113	2	7.6-41		III	2023:15-2023:30	1-	20-36
	III	2113:15-2114	2	12-41		III	2029-2029:30	1	16-41
	III	2128-2128:15	2	17-41		III	2033:15-2033:30	1	13-39
	III	2128:30-2130:15	2	12-41		III	2037-2037:15	1-	24-39
	III	2139:30-2140	1-	22-39		III	2100-2100:30	1-	25-36
	continuum	2204:45-2220	1+	16-41		III	2101:30-2102	1-	23-38
	III	2300:30-2301	1+	25-41		III	2108-2108:15	1-	21-37
	III	2308-2308:15	1-	22-38		III	2132-2133	1+	15-41
	III	2319:45-2320:30	1	23-36		III	2258:15-2258:30	1	16-41
	III	2321-2321:15	1-	23-33		III	2300-2300:15	1-	21-41
8 Sep	III	0009:45-0010	1-	26-38		III	2300:45-2301:15	2	16-41
	III	0021:30-0022:30	1+	16-41		III	2310:30-2311	1	21-40
	III	1253:15-1253:45	1	13-37		III	2313:15-2314	1	22-41
	III	1304:15-1304:30	1-	21-38		III	2320:45-2322:45	2	7.6-41
	III	1324:45-1325	1	18-39		III	2323:30-2323:45	1	22-41
	III	1337-1337:15	1	25-40	9 Sep	III	1309-1309:45	1+	15-41
	III	1351:45-1352	1-	22-39		III	1330:15-1331	1-	17-41
	III	1352:15-1355:15	2	12-41		III	1333:15-1334	1	13-41
	III	1457:15-1457:30	1-	23-30		III	1334:15-1336:15	2	12-41
	III	1518:30-1518:45	1-	27-36		III	1338:30-1338:45	1-	28-37
	III	1519:30-1519:45	1-	22-30		III	1507:15-1507:45	1-	35-41
	III	1543:15-1543:45	2	11-41		III	1528:30-1530:30	1	12-41
	III	1547:30-1547:45	1-	7.6-41		III	1600-1600:30	1-	20-41
	III	1548:30-1548:45	1	16-41		III	1719:45-1720:15	1	7.6-41
	III	1602-1602:15	1-	23-38		III	1720:45-1721:15	1-	7.6-39
	III	1608:30-1608:45	1-	21-30		III	1721:45-1722	1-	24-39
	III	1617-1617:15	1-	22-39		III	1724:15-1724:30	1-	7.6-41
	III	1617:30-1617:45	1-	22-39		III	1725:45-1726:15	1+	7.6-41
	III	1630:30-1630:45	1	26-39		III	1854-1854:45	1-	18-37
	III	1639:45-1640	1-	27-34		III	1919-1919:30	1+	11-41
	III	1640:30-1645:45	1-	28-40		III	1932-1932:30	2	7.6-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1966

UNIVERSITY OF COLORADO

7.6-41 Mc/s

Date Sep 1966	Bursts				Date Sep 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
9 Sep	III	1934:15-1934:45	1-	22-37	10 Sep	III	1429-1429:30	1+	17-37
	III	1935:15-1938:30	2+	7.6-41		III	1435:30-1435:15	1-	20-33
	III	1953-1953:15	1-	26-34		III	1438-1438:15	1-	24-32
	III	2014-2014:45	1+	7.6-41		III	1442:30-1442:45	1-	29-36
	III	2016-2016:45	1-	20-38		III	1454:45-1455:15	1	21-41
	III	2017:30-2019:45	1	13-41		III	1458-1458:15	1	16-37
	III	2020:30-2021	1	9-41		III	1514:45-1516:30	2	11-41
	III	2036-2036:15	1-	23-38		III	1517-1518	1-	28-41
	III	2036:30-2037:15	1	7.6-41		III	1518-1520:45	2	7.6-41
	III	2037:45-2038	1-	26-38		III	1525:15-1526:15	1	21-37
	III	2042:15-2043:15	1	13-38		III	1532:45-1533:15	1	21-40
	III	2045:15-2045:45	1	7.6-41		III	1542:15-1543:30	2	7.6-41
	III	2055-2055:30	1	21-39		III	1605:15-1608:30	2	7.6-41
	III	2104:30-2105:45	1+	7.6-41		III	1609:30-1610:15	1+	20-41
	III	2109-2109:45	1	9-41		III	1611:30-1612:15	1+	24-41
	III	2119:45-2120	1	13-41		III	1614:30-1615:45	1	16-41
	III	2120:15-2120:45	1-	20-41		III	1620:45-1621	1-	26-41
	III	2126:15-2127:15	2	7.6-41		III	1622:45-1624	1+	7.6-41
	III	2130-2130:30	2	7.6-41		III	1624:30-1625:15	2	7.6-41
	III	2135-2135:45	1-	20-38		III	1625:30-1628	1	7.6-41
	III	2150:15-2151:30	1+	12-41		III	1632-1633:15	1	24-41
	III	2155:15-2155:30	1-	30-41		III	1638-1638:15	1-	20-41
	III	2203:15-2203:45	1	15-41		III	1639:15-1639:45	1	16-41
	III	2216:30-2217	1-	21-33		III	1644:15-1644:30	1-	24-38
	III	2222:45-2224:15	1+	16-41		III	1701:30-1701:45	1-	23-36
	III	2226-2226:30	1	16-41		III	1702:15-1702:30	1-	26-38
	III	2227-2227:45	1+	10-41		III	1703:45-1704	1-	29-37
	III	2229:15-2230	1	23-41		III	1710:45-1711:15	1-	22-41
	III	2230:30-2230:45	1	21-37		III	1714:15-1714:30	1-	20-40
	III	2231:15-2232:15	1+	16-41		III	1717-1717:15	1-	21-39
	III	2243-2243:15	1-	26-41		III	1719-1719:30	1-	22-38
	III	2246:15-2246:30	1-	30-38		III	1721-1725:30	2	7.6-41
	III	2246:45-2247	1+	24-37		III	1725:45-1727:15	2	7.6-41
	III	2247:15-2247:45	1+	16-41		III	1738:45-1739	1-	24-38
	III	2248-2248:30	1	24-41		III	1747:30-1748	1	23-41
	III	2250:30-2251	1-	24-40		III	1750:15-1750:30	1-	23-41
	III	2316-2317	2	16-41		III	1751-1752	1+	7.6-41
	III	2337:30-2338:30	1+	17-41		III	1753:30-1754:15	1	25-41
	III	2356:15-2356:30	1+	20-41		III	1755-1755:30	1	25-41
	III	2356:45-2357	1	23-40		III	1756:30-1757	1+	21-41
	III	2357:30-2358	1+	17-41		III	1801:15-1803:45	1+	7.6-41
10 Sep	III	0016-0016:15	1-	27-41		III	1805:15-1806	1+	7.6-41
	III	0016:30-0018	1+	17-41		III	1816-1816:15	1-	21-41
	III	0033:15-0033:30	1-	21-38		III	1817-1817:15	1-	23-39
	III	0034:45-0035	1-	25-37		III	1829:45-1830	1-	21-41
	III	0041:15-0042:15	1+	13-41		III	1837:45-1838:15	1	7.6-41
	III	0043:15-0043:45	1+	16-41		III	1844-1845:15	1+	7.6-41
	III	1248-1248:30	1-	17-32		III	1848-1848:30	1	22-38
	III	1327:45-1328:15	1-	28-38		III	1851:15-1851:45	1-	35-41
	III	1345:45-1346:15	1	17-35		III	1857:30-1858	1	21-41
	III	1420:30-1421	1	28-41		III	1931:30-1932:15	1	23-41
	continuum	1422:30-1429	1-	24-41		III	1934:15-1935	1-	23-40
	III	1422:30-1424	1+	11-41		III	1941:30-1945	1+	7.6-41
	III	1426:15-1427:30	1+	11-41		III	1946:30-1947:15	1-	23-37
	III	1428-1428:15	1	19-41		III	1954:30-1955	1	9-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1966

UNIVERSITY OF COLORADO **7.6-41 Mc/s**

Date Sep 1966	Bursts				Date Sep 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
10 Sep	III	1957-1957:30	1-	24-41	14 Sep	III	1837:30-1838:15	1	25-41
	III	2009:15-2010	1	16-41		III	2354:15-2355	1-	25-41
	III	2020:15-2020:45	1	9-39	15 Sep	continuum	b1249-a0030	1-	20-41
	III	2035:30-2035:45	1-	24-41	16 Sep	continuum	b1255-1815	1-	20-41
	III	2038-2038:15	1	22-41		III	1255:15-1255:30	1+	22-28
	III	2039:30-2040:45	1+	7.6-41		III	1257:30-1258:30	1	16-41
	III	2109:30-2110	1-	22-41		III	1305-1305:30	1+	16-41
	III	2110:15-2110:30	1-	22-40		III	1313:30-1314	1+	17-41
	III	2111:15-2113:30	1+	9-41		III	1427:15-1428:30	2	12-41
	III	2116:30-2117	1+	16-41		III	1556:15-1558	2	22-40
	III	2201:30-2202	1	30-41		III	1619-1621:30	1+	10-41
	III	2209:30-2213:30	1+	7.6-41		III	1624-1625:15	2	13-41
	III	2214:45-2215	1-	22-34		III	1714:15-1715:30	1+	11-41
	III	2225:45-2226	1-	22-37		III	1729:15-1730	1+	10-39
	III	2312:45-2313	1-	22-39		III	1756:30-1759:15	1+	7.6-41
	III	2314-2314:15	1-	26-41		III	1759:45-1800:15	1+	21-41
	III	2317:30-2317:45	1	24-41		continuum	1815-1855	1	20-41
11 Sep	III	0008-0008:30	1	22-41		II	1815-1820	1	24-41
	III	0021:15-0021:45	1+	16-41		II	1827:15-1836	1+	21-41
	III	0032:15-0032:30	1	16-41		III	1833:30-1833:45	1+	9-41
	III	1245-1245:15	1-	26-39		II	1838-1843:15	1+	20-31
	III	1324:45-1325	1-	30-40		continuum	1855-a0030	1	22-41
	III	1357-1357:15	1-	26-39		III	2051-2051:30	1	12-41
	continuum	1359:30-a0032	1	22-41		III	2117:30-2118:15	2	10-41
12 Sep	no observ.	1900-0000				III	2147:45-2149	1+	16-41
13 Sep	III	1237:30-1237:45	1	24-38		III	2316:15-2317:15	1+	13-41
	III	1324:15-1325	1+	21-41		III	2346:30-2347:45	1+	12-41
	III	1410:15-1410:30	1-	27-41		III	2359:45-0000:45	1+	15-41
	III	1525:15-1525:45	1-	22-37	17 Sep	continuum	1245-a0031	1-	22-41
	III	1533:45-1534	1-	23-31		III	1534-1534:45	1+	12-41
	III	1543:45-1544:15	1-	26-33		III	1842:45-1843:15	1+	7.6-41
	III	1545:30-1545:45	1-	28-35		III	2048-2050	2	7.6-41
	III	1556:30-1557	1-	28-38		III	2144:30-2145	1+	16-41
	III	1600-1600:30	1-	25-41		III	2358:15-2359:15	2	16-41
	III	1613-1613:15	1-	31-37	18 Sep	continuum	1235-a0033	1-	20-41
	III	1614:30-1614:45	1-	31-41		II	1505:30-1513:30	2	24-41
	III	1621-1622:15	1	12-41		II	1526:15-1538:15	1+	22-41
	III	1634-1634:15	1-	32-38		III	2031-2032:30	2	11-41
	III	1650:15-1650:30	1-	19-33		III	2053:45-2054:30	1+	12-41
	III	1723-1723:15	1-	20-41		III	2214:30-2216	2	11-41
	III	1733-1733:15	1-	21-41		III	2241:15-2242:15	2	22-41
	III	1734-1734:15	1-	33-41		III	2305:45-2307:30	2	16-41
	III	1748:45-1749	1-	16-41		III	2339:30-2340:15	2	19-41
	III	1848:45-1849:30	1-	21-37	19 Sep	III	0004:15-0005:15	2	20-41
	III	1937:15-1937:30	1-	27-37		III	0012:45-0013:30	2	17-41
	III	2031:30-2032	1+	9-41		continuum	b1236-1340	1-	18-41
	III	2032:45-2033	1	21-41		III	1322:15-1325:45	2	16-41
	III	2334:30-2334:45	1-	22-41		continuum	1340-1750	1	18-41
	III	2338:45-2339:15	1	23-41		III	1410:45-1413:30	2	16-41
	III	2344-2344:15	1-	22-38		II	1536:30-1543:30	1	20-41
14 Sep	III	1535-1535:15	1-	29-41		II	1546-1549:15	1	21-41
	III	1537:15-1537:30	1-	24-38		III	1609:45-1610:30	1+	12-41
	III	1538:30-1539:15	1-	25-34		III	1655:45-1656:30	1+	10-41
	III	1545:30-1546	1-	24-29		continuum	1750-2110	1-	13-41
	III	1755:15-1756:45	1-	24-41		III	1850:30-1857:15	2	10-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1966

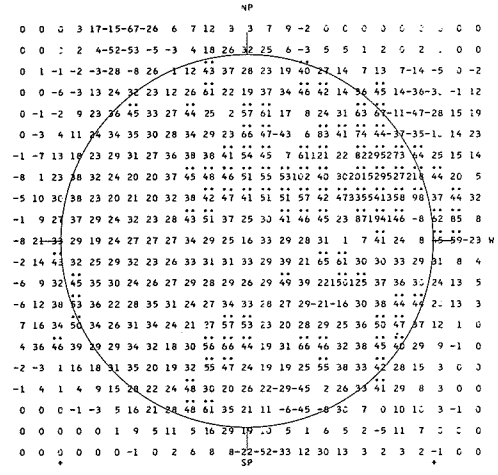
UNIVERSITY OF COLORADO

7.6-41 Mc/s

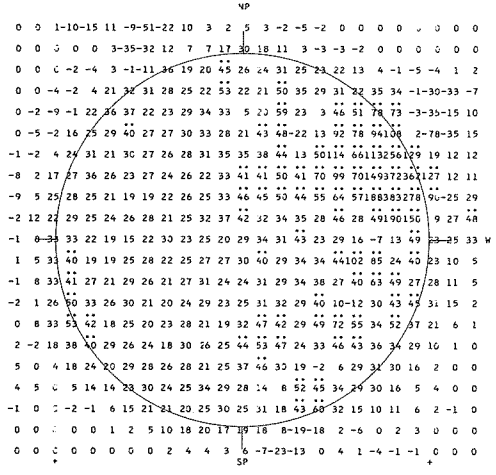
Date Sep 1966	Bursts				Date Sep 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
19 Sep	III	2014-2015:30	2	12-41	23 Sep	III	1856:45-1857	1	16-41
	continuum	2110-2127:15	1+	11-41		continuum	1905:30-1934:45	1-	22-41
	continuum	2127:15-2206:30	1-	18-41		III	2228:30-2228:45	1-	20-37
	continuum	2206:30-2214	1+	13-41	24 Sep	continuum	1833-1843:30	1-	26-41
	continuum	2214-a0030	1	20-41		III	2242:45-2243	1-	22-32
	III	2250-2253:30	2	14-41		III	2244:30-2244:45	1-	19-31
	III	2256:30-2257:30	2	14-41		III	2246:15-2246:45	1+	25-41
20 Sep	III	1231:15-1232:45	1-	18-33		III	2354-2354:15	1-	26-39
	continuum	1303-1713	1-	20-41	25 Sep	III	1308:30-1312:45	1+	14-41
	III	1506-1510:45	1	12-41		IV	1312-1340	1-	22-41
	III	1558:45-1559:30	1+	12-41		II	1316:30-1335:45	1+	16-41
	III	1650:45-1652	1+	12-41		III	1333:45-1334	1+	16-41
	continuum	1713-1731	1+	10-41		III	1418-1418:15	2	22-41
	continuum	1731-1843	1	20-41		III	1919-1919:30	1-	25-32
	continuum	1843-a0029	1-	20-41		III	1923-1923:30	1	21-39
	III	1904:45-1905:15	1	10-41		III	2033:30-2034	1	11-41
	III	2041:45-2042:15	1+	16-41		III	2127:15-2128:15	1-	25-31
21 Sep	III	1256-1257	1-	19-41		continuum	2201:30-2213	1-	25-41
	continuum	1303-2355	1-	20-41	26 Sep	no observ.	1936-0030		
	III	1617:15-1619:45	1+	10-41	27 Sep	IV	1313-1443:15	2	20-41
	III	1656:15-1657:15	1+	11-41	28 Sep	III	1410:15-1410:45	1	25-41
	III	1823:30-1824:45	1	9-41		III	1518:30-1518:45	1-	24-36
	III	1853:15-1854:30	1+	9-41		III	1648:45-1649	1	22-40
	III	1906:45-1907:15	1	13-41		III	2008-2008:15	1	26-40
	III	1924:45-1925:45	1+	7.6-41		no observ.	2053-2229		
	III	1930:15-1932:15	2	7.6-41	29 Sep	no observ.	1504-0030		
	III	2023:15-2024	1	9-39	30 Sep	no observ.	1435-0030		
	III	2025:15-2026	1	9-41					
	III	2027:15-2028:30	1+	9-41					
22 Sep	III	1502:45-1503:15	1	25-41					
	III	1516-1516:15	1	21-41					
	continuum	1516:15-1635	1-	20-41					
	III	1611:15-1611:45	1+	12-41					
	II	1618:30-1622	1	21-41					
	III	1717-1717:45	1+	16-41					
	III	1718-1718:15	1	30-41					
	III	1718:30-1718:45	1	16-41					
	III	1725:30-1727	2	9-41					
	III	1734-1734:15	1	27-41					
	III	1737-1737:30	1	9-41					
	III	1739:30-1743:30	1	9-41					
	III	1803-1803:15	1-	20-41					
	continuum	1836:45-1842	1-	25-41					
	III	1919-1919:45	1	7.6-41					
	continuum	1919:45-1925:15	1-	26-41					
	III	1935:30-1936:15	1+	10-41					
	III	2051:45-2052:15	1+	13-41					
	III	2106-2106:15	1-	24-41					
	III	2204:15-2205	1	22-41					
	III	2215:45-2216:15	1-	24-41					
	III	2252-2253	2	16-41					
	III	2253:45-2254	1	32-39					
23 Sep	III	0015-0015:30	1-	22-41					
	III	1703:30-1704:15	1+	14-41					
	III	1856-1856:15	1	16-41					

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

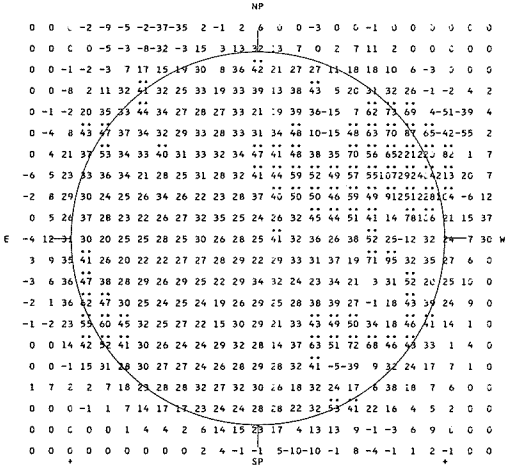
STANFORD — **SEPTEMBER 1966** — **9.1 cm**



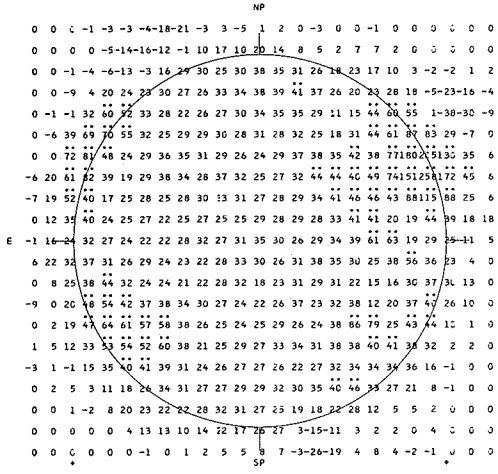
9.1 CM SPECTROHELIOGRAM
STANFORD, 01 SEP 1966 20-21 HRS UT. S = 115(NRC) BRIGHTNESS UNIT = 100[illegible] K



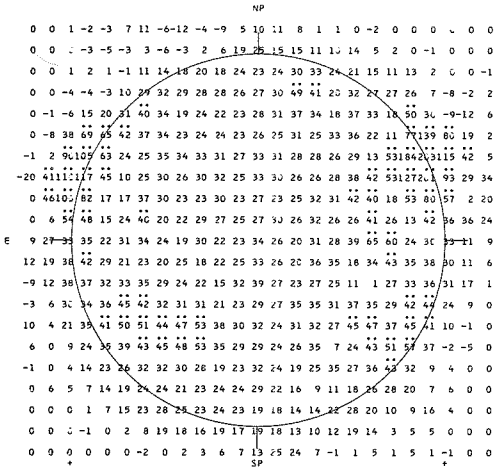
9.1 CM SPECTROHELIOGRAM
STANFORD, 02 SEP 1966 20-21 HOURS UT. S = 104 BRIGHTNESS UNIT = 1000 K



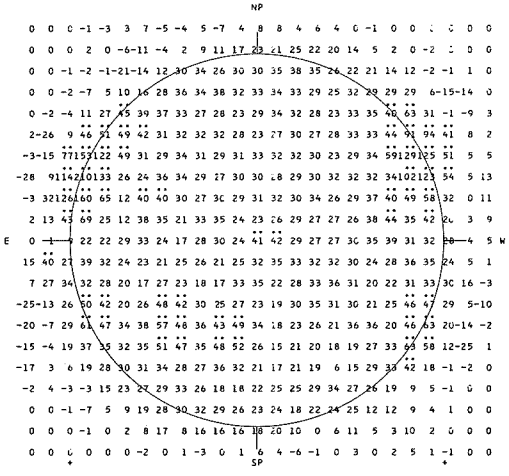
9.1 CM SPECTROHELIOGRAM
STANFORD, 03 SEP 1966 20-21 HOURS UT. S = 102 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 04 SEP 1966 20-21 HOURS UT. S = 100 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 05 SEP 1966 20-21 HOURS UT. S = 99 BRIGHTNESS UNIT = 1000 K



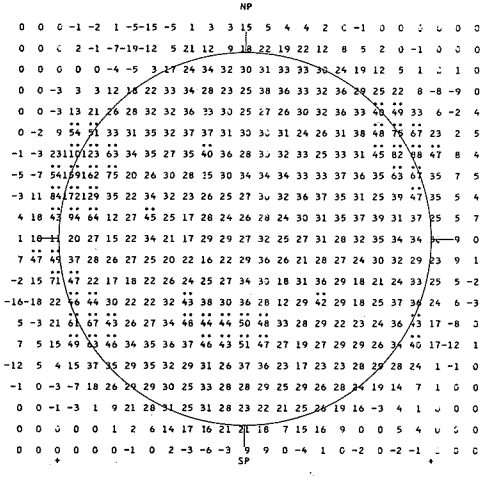
9.1 CM SPECTROHELIOGRAM
STANFORD, 06 SEP 1966 20-21 HOURS UT. S = 96 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

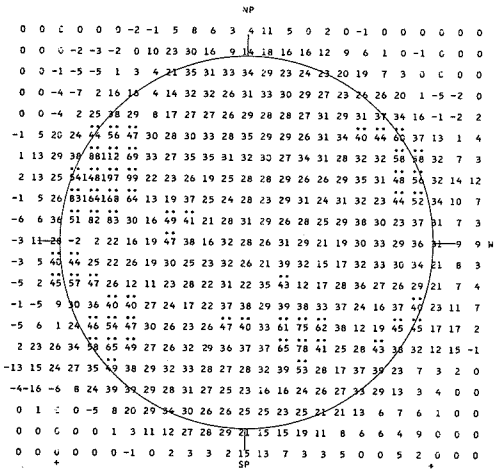
STANFORD

SEPTEMBER 1966

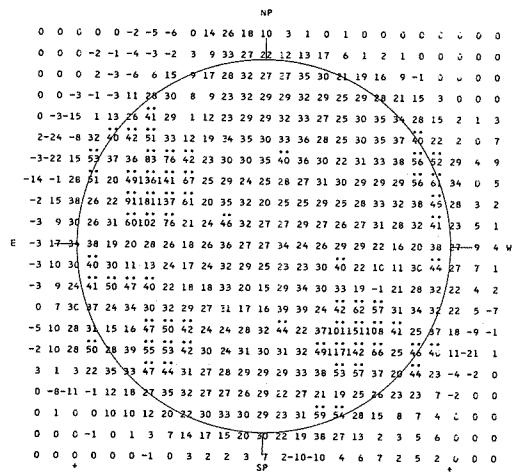
9.1 cm



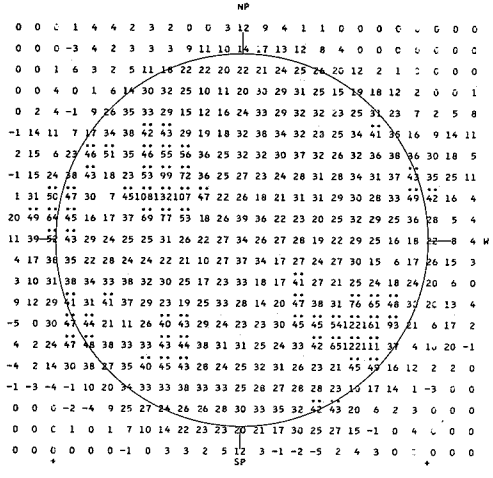
9.1 CM SPECTROHELIOGRAM
STANFORD, 07 SEP 1966 20-21 HOURS UT. S = 94 BRIGHTNESS UNIT = 1000 K



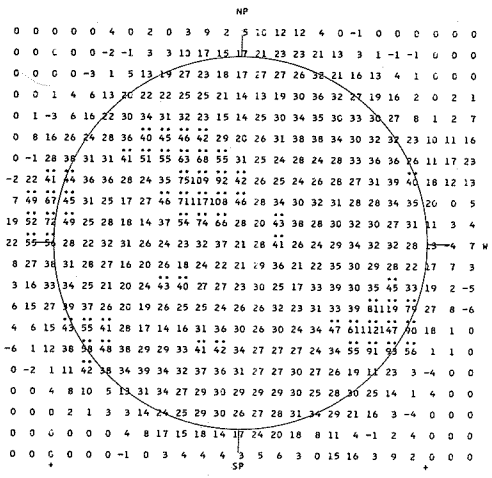
9.1 CM SPECTROHELIOGRAM
STANFORD, 08 SEP 1966 20-21 HOURS UT. S = 95 BRIGHTNESS UNIT = 1000 K



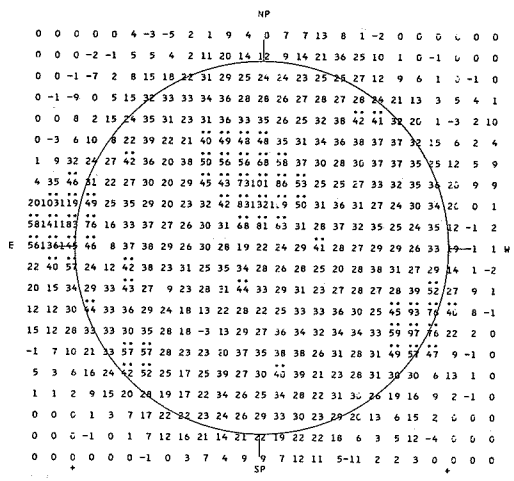
9.1 CM SPECTROHELIOGRAM
STANFORD, 09 SEP 1966 20-21 HOURS UT. S = 94 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 10 SEP 1966 20-21 HOURS UT. S = 93 BRIGHTNESS UNIT = 1000 K



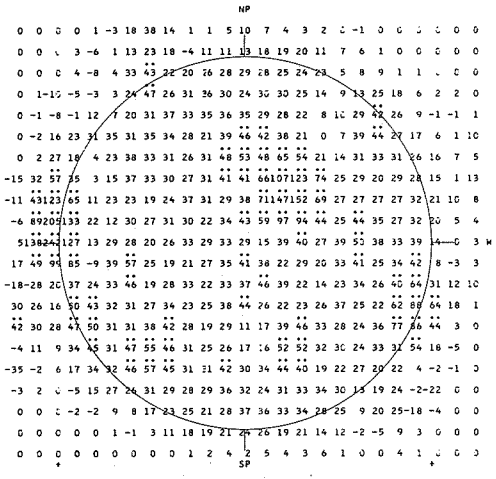
9.1 CM SPECTROHELIOGRAM
STANFORD, 11 SEP 1966 20-21 HOURS UT. S = 95 BRIGHTNESS UNIT = 1000 K



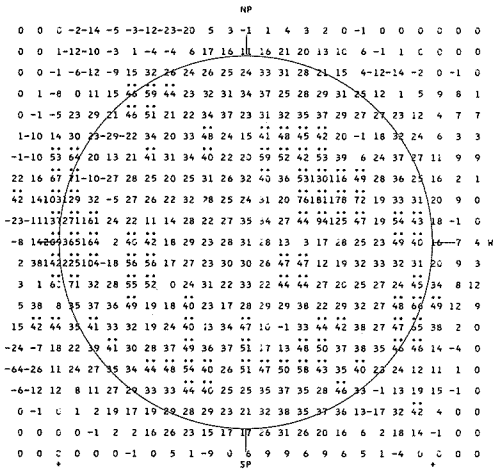
9.1 CM SPECTROHELIOGRAM
STANFORD, 12 SEP 1966 20-21 HOURS UT. S = 100 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

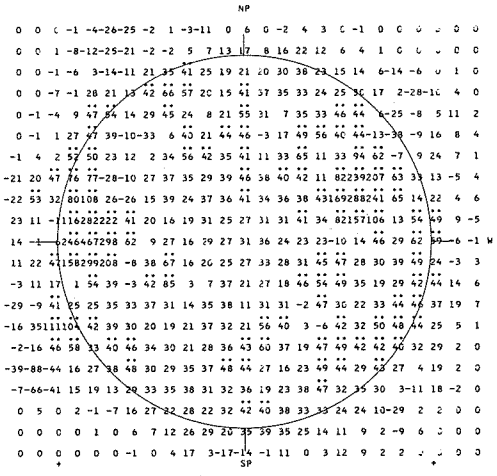
STANFORD — **SEPTEMBER 1966** — **9.1 cm**



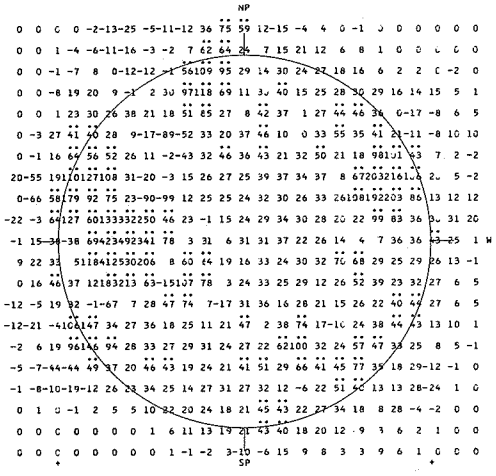
9.1 CM SPECTROHELIOGRAM
STANFORD, 13 SEP 1966 20-21 HOURS UT. S = 101 BRIGHTNESS UNIT = 1000 K



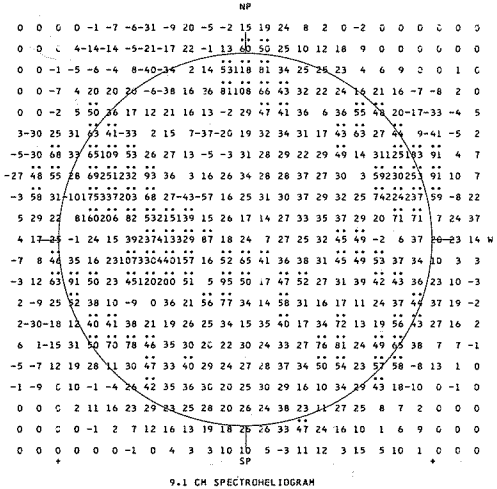
9.1 CM SPECTROHELIOGRAM
STANFORD, 14 SEP 1966 20-21 HOURS UT. S = 106 BRIGHTNESS UNIT = 1000 K



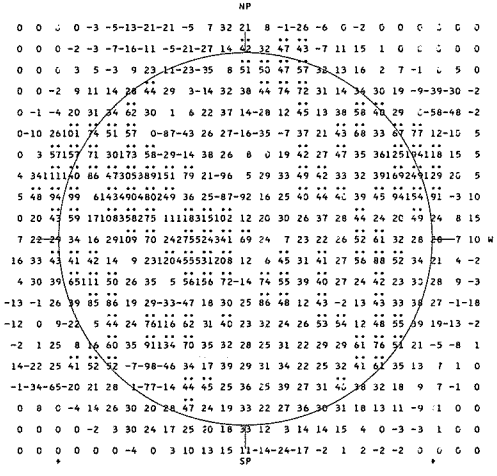
9.1 CM SPECTROHELIOGRAM
STANFORD, 15 SEP 1966 20-21 HOURS UT. S = 111 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 16 SEP 1966 20-21 HOURS UT. S = 123 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 17 SEP 1966 20-21 HOURS UT. S = 128 BRIGHTNESS UNIT = 1000 K



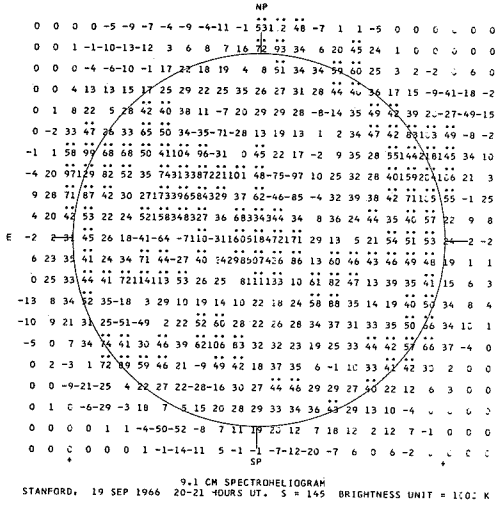
9.1 CM SPECTROHELIOGRAM
STANFORD, 18 SEP 1966 20-21 HOURS UT. S = 141 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

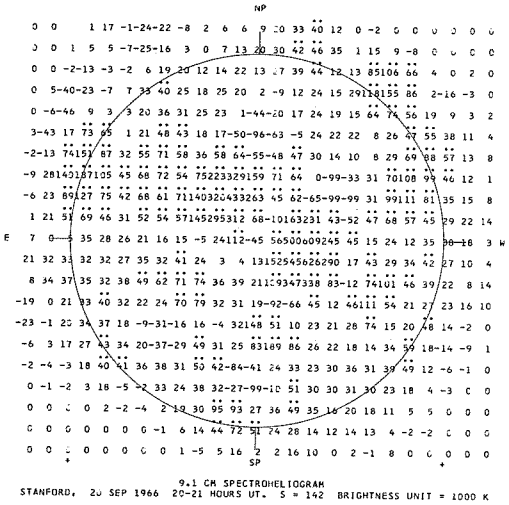
STANFORD

SEPTEMBER 1966

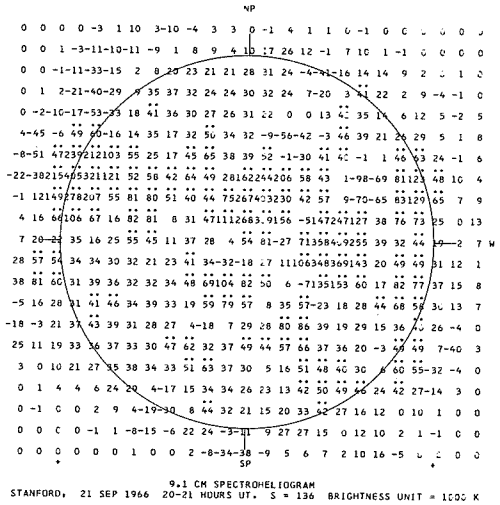
9.1 cm



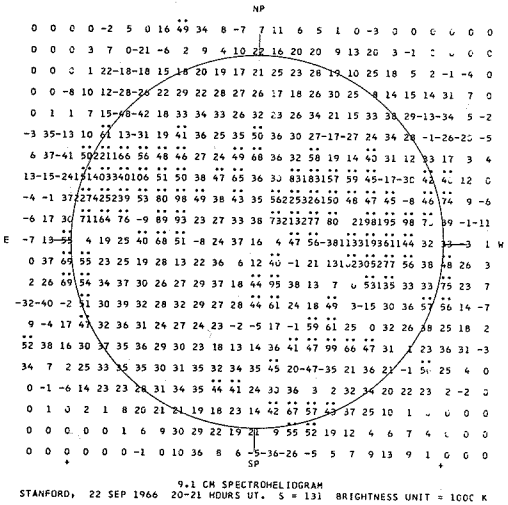
9.1 CM SPECTROHELIOGRAM
STANFORD, 19 SEP 1966 20-21 HOURS UT. S = 145 BRIGHTNESS UNIT = 1000 K



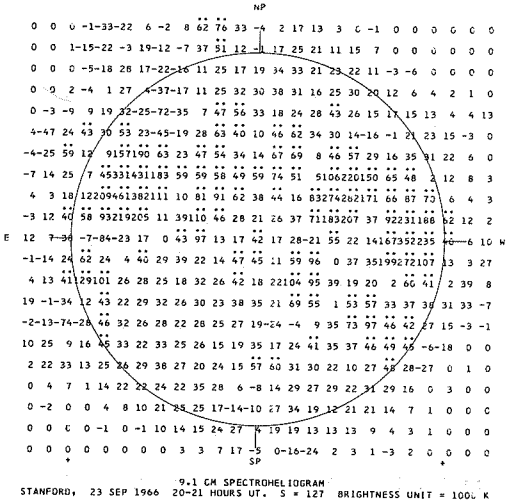
9.1 CM SPECTROHELIOGRAM
STANFORD, 20 SEP 1966 20-21 HOURS UT. S = 142 BRIGHTNESS UNIT = 1000 K



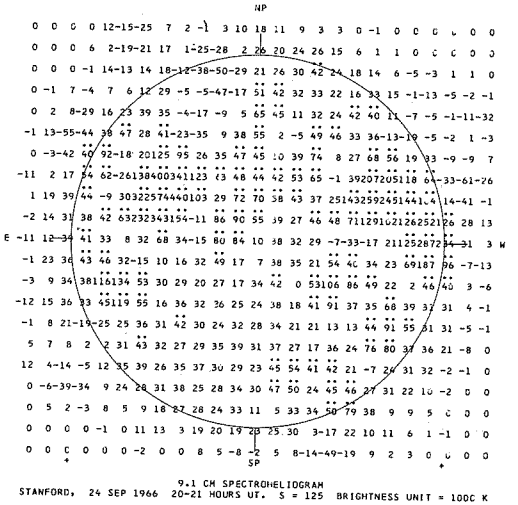
9.1 CM SPECTROHELIOGRAM
STANFORD, 21 SEP 1966 20-21 HOURS UT. S = 136 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 22 SEP 1966 20-21 HOURS UT. S = 131 BRIGHTNESS UNIT = 1000 K



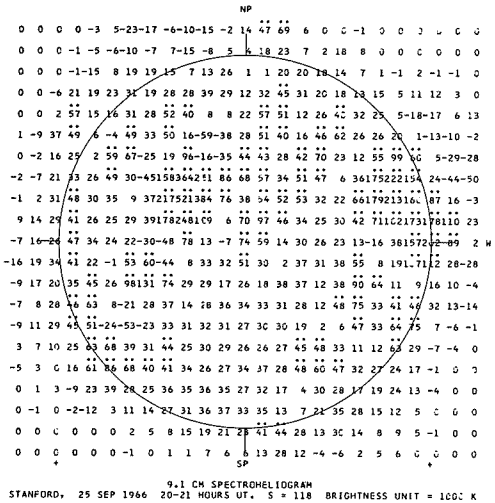
9.1 CM SPECTROHELIOGRAM
STANFORD, 23 SEP 1966 20-21 HOURS UT. S = 127 BRIGHTNESS UNIT = 1000 K



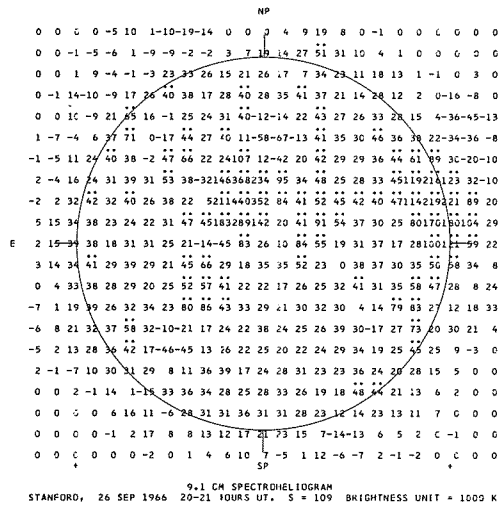
9.1 CM SPECTROHELIOGRAM
STANFORD, 24 SEP 1966 20-21 HOURS UT. S = 125 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

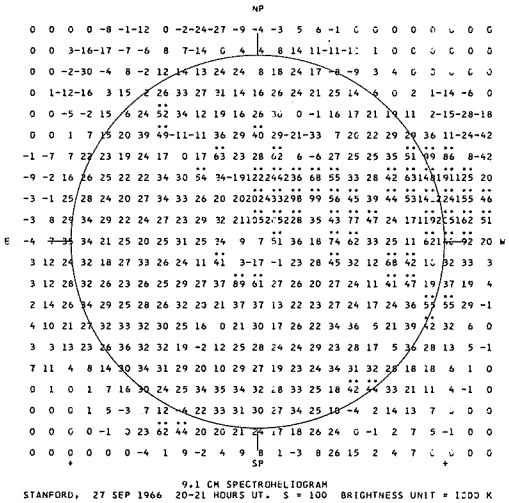
STANFORD — **SEPTEMBER 1966** — **9.1 cm**



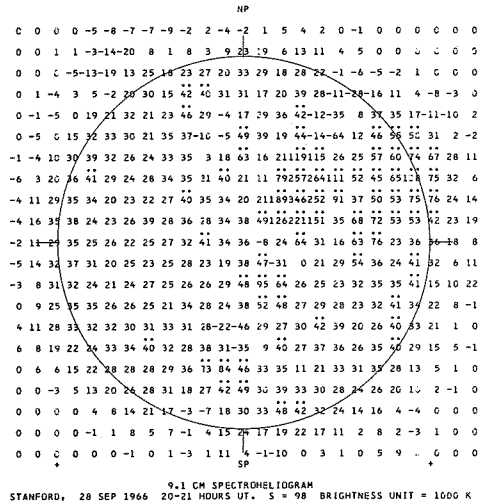
9.1 CM SPECTROHELIOGRAM
STANFORD, 25 SEP 1966 20-21 HOURS UT. S = 118 BRIGHTNESS UNIT = 1000 K



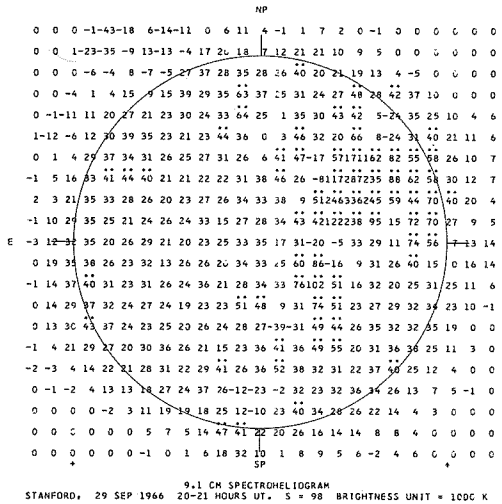
9.1 CM SPECTROHELIOGRAM
STANFORD, 26 SEP 1966 20-21 HOURS UT. S = 109 BRIGHTNESS UNIT = 1000 K



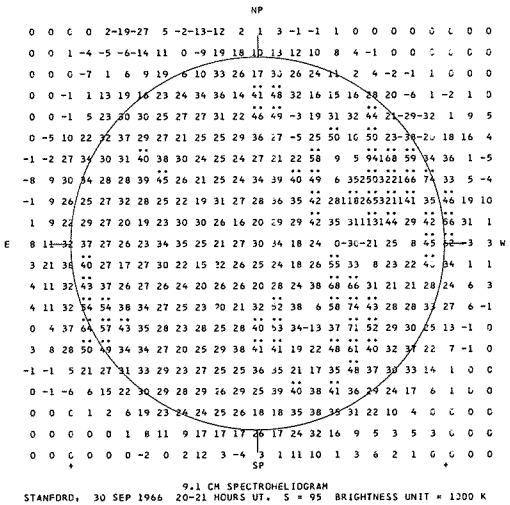
9.1 CM SPECTROHELIOGRAM
STANFORD, 27 SEP 1966 20-21 HOURS UT. S = 100 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 28 SEP 1966 20-21 HOURS UT. S = 98 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 29 SEP 1966 20-21 HOURS UT. S = 98 BRIGHTNESS UNIT = 1000 K



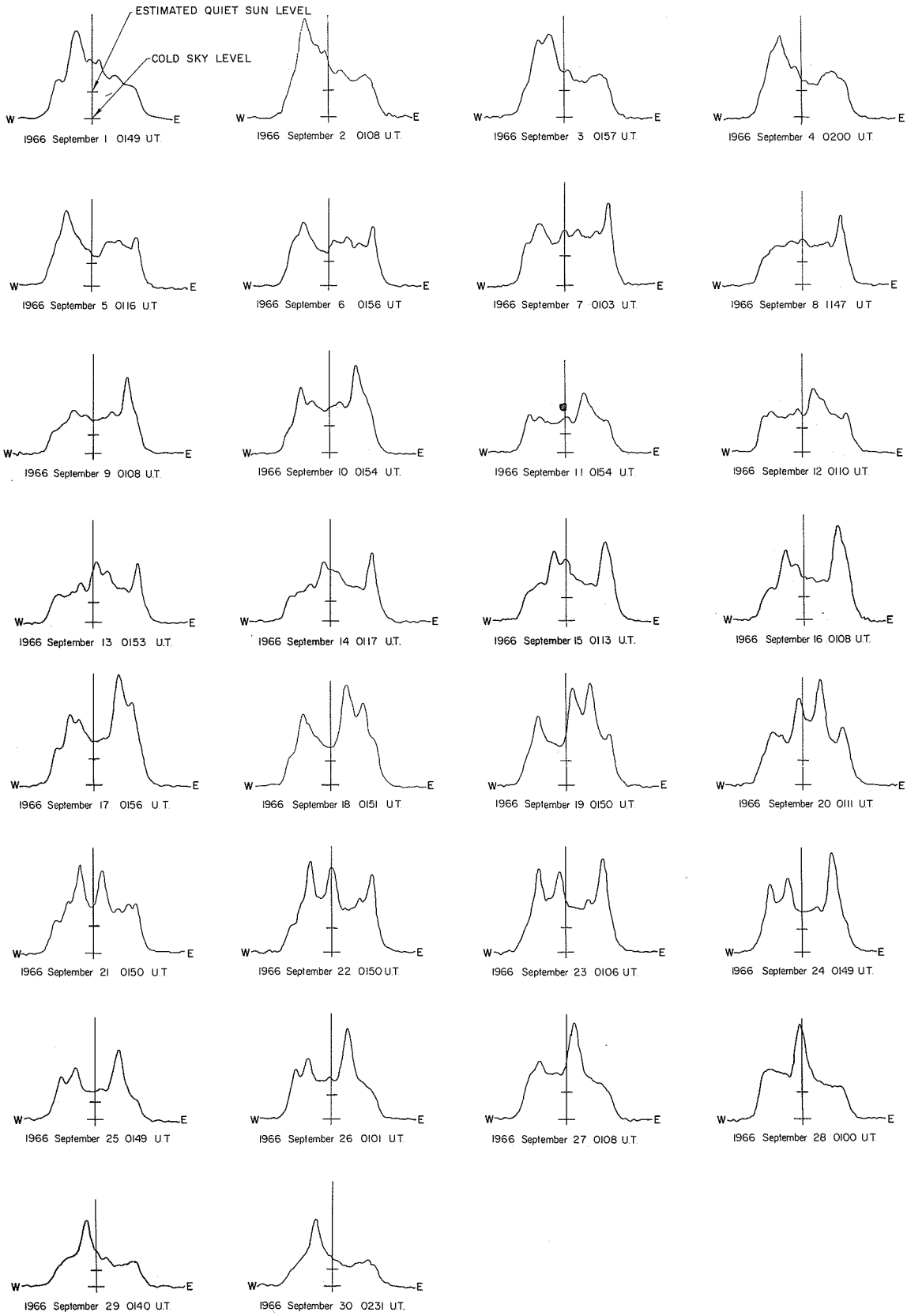
9.1 CM SPECTROHELIOGRAM
STANFORD, 30 SEP 1966 20-21 HOURS UT. S = 95 BRIGHTNESS UNIT = 1000 K

EAST - WEST SOLAR SCANS

FLEURS, AUSTRALIA

September 1966

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



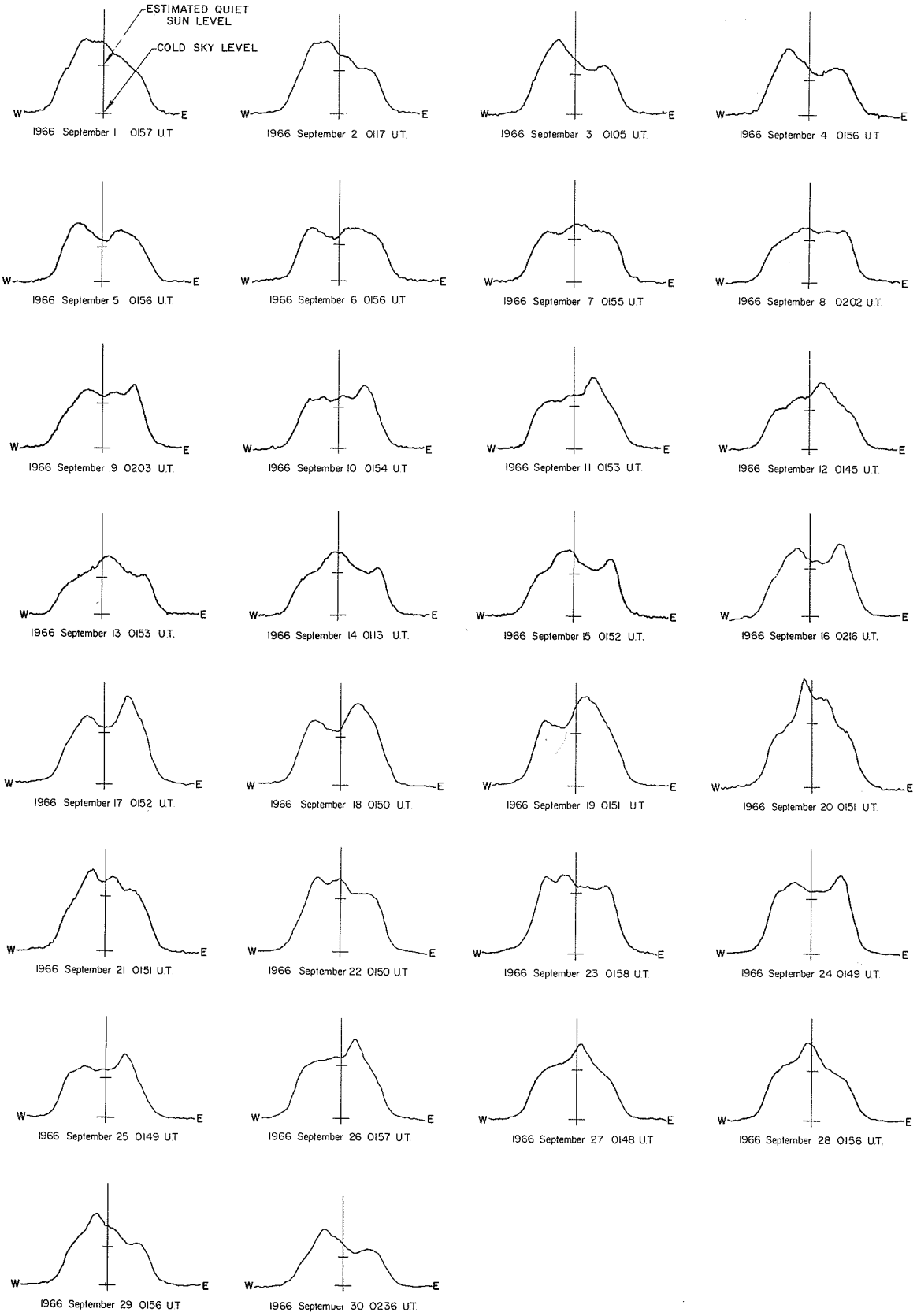
1966 September 1 0149 U.T.
1966 September 2 0108 U.T.
1966 September 3 0157 U.T.
1966 September 4 0200 U.T.
1966 September 5 0116 U.T.
1966 September 6 0156 U.T.
1966 September 7 0103 U.T.
1966 September 8 1147 U.T.
1966 September 9 0108 U.T.
1966 September 10 0154 U.T.
1966 September 11 0154 U.T.
1966 September 12 0110 U.T.
1966 September 13 0153 U.T.
1966 September 14 0117 U.T.
1966 September 15 0113 U.T.
1966 September 16 0108 U.T.
1966 September 17 0156 U.T.
1966 September 18 0151 U.T.
1966 September 19 0150 U.T.
1966 September 20 0111 U.T.
1966 September 21 0150 U.T.
1966 September 22 0150 U.T.
1966 September 23 0106 U.T.
1966 September 24 0149 U.T.
1966 September 25 0149 U.T.
1966 September 26 0101 U.T.
1966 September 27 0108 U.T.
1966 September 28 0100 U.T.
1966 September 29 0140 U.T.
1966 September 30 0231 U.T.

EAST - WEST SOLAR SCANS

FLEURS, AUSTRALIA

September 1966

43 cm
Fan-Beam with 4 minutes of arc
E-W Resolution



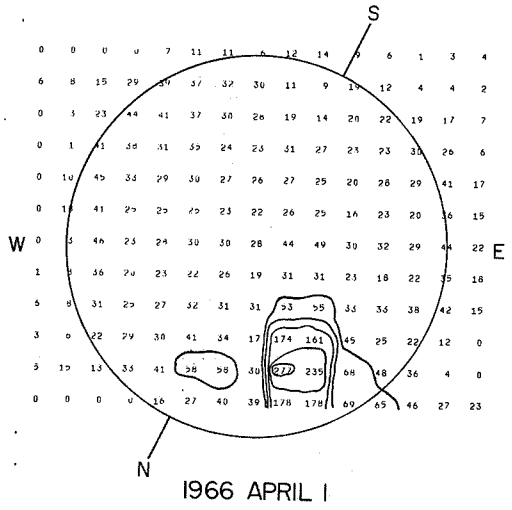
1966 September 1 0157 U.T.
1966 September 2 0117 U.T.
1966 September 3 0105 U.T.
1966 September 4 0156 U.T.
1966 September 5 0156 U.T.
1966 September 6 0156 U.T.
1966 September 7 0155 U.T.
1966 September 8 0202 U.T.
1966 September 9 0203 U.T.
1966 September 10 0154 U.T.
1966 September 11 0153 U.T.
1966 September 12 0145 U.T.
1966 September 13 0153 U.T.
1966 September 14 0113 U.T.
1966 September 15 0152 U.T.
1966 September 16 0216 U.T.
1966 September 17 0152 U.T.
1966 September 18 0150 U.T.
1966 September 19 0151 U.T.
1966 September 20 0151 U.T.
1966 September 21 0151 U.T.
1966 September 22 0150 U.T.
1966 September 23 0158 U.T.
1966 September 24 0149 U.T.
1966 September 25 0149 U.T.
1966 September 26 0157 U.T.
1966 September 27 0148 U.T.
1966 September 28 0156 U.T.
1966 September 29 0156 U.T.
1966 September 30 0236 U.T.

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

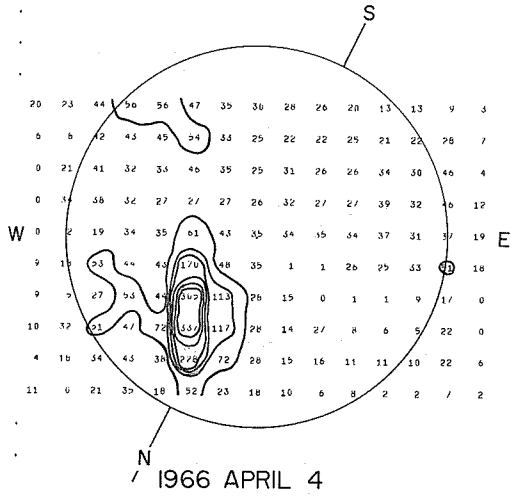
FLEURS, AUSTRALIA

APRIL 1966

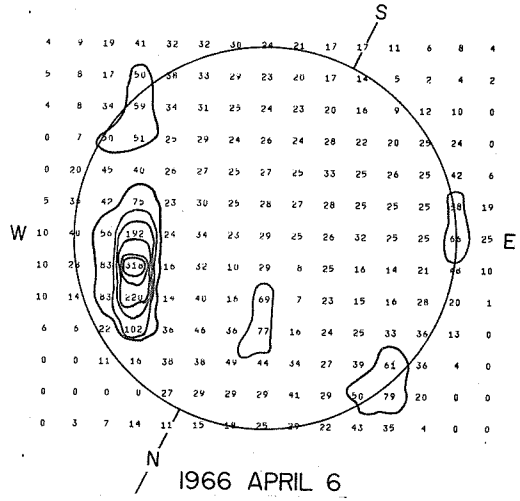
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



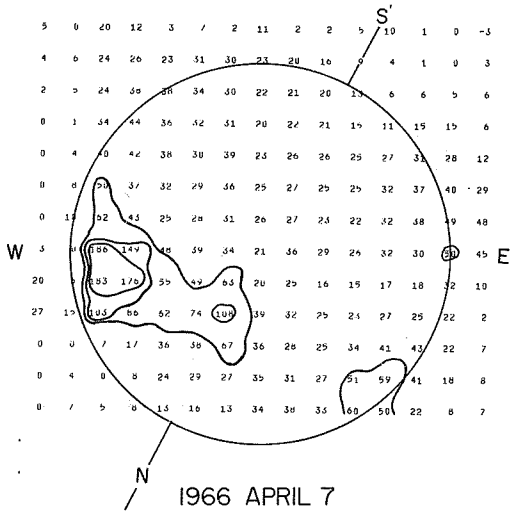
1966 APRIL 1



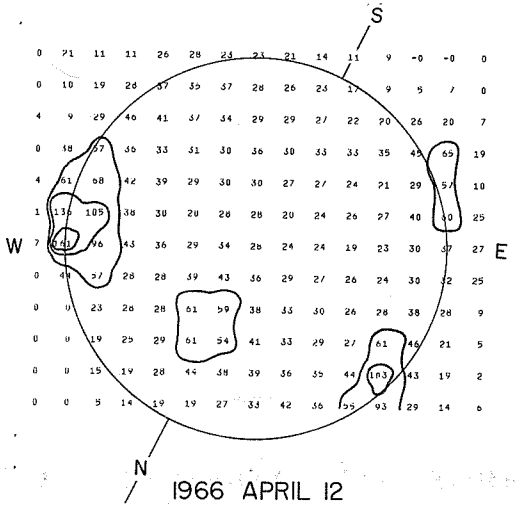
1966 APRIL 4



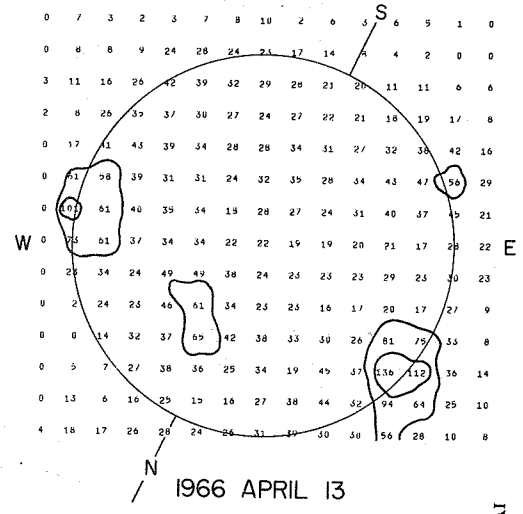
1966 APRIL 6



1966 APRIL 7



1966 APRIL 12



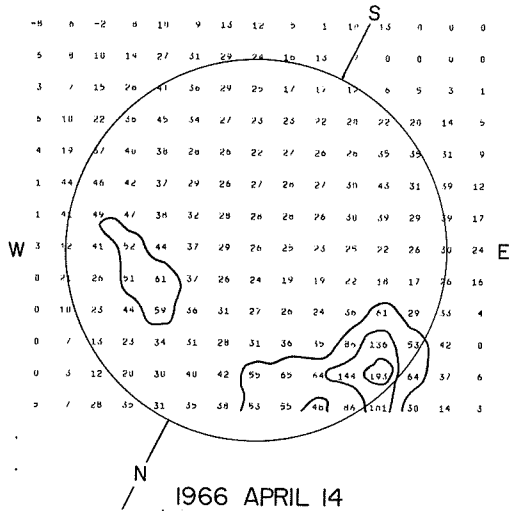
1966 APRIL 13

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

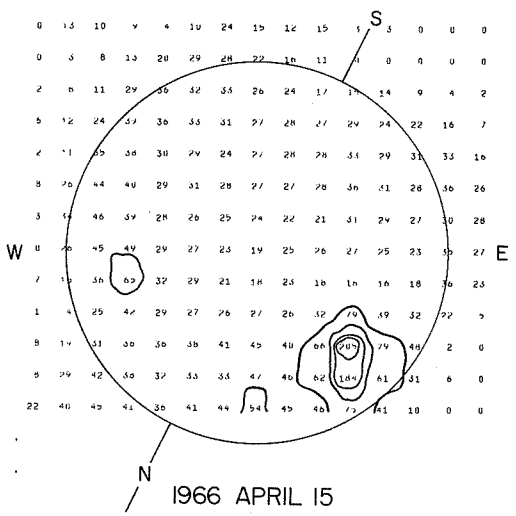
FLEURS, AUSTRALIA

APRIL 1966

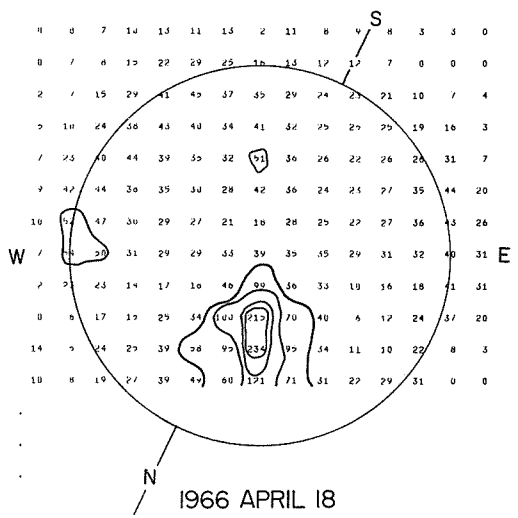
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



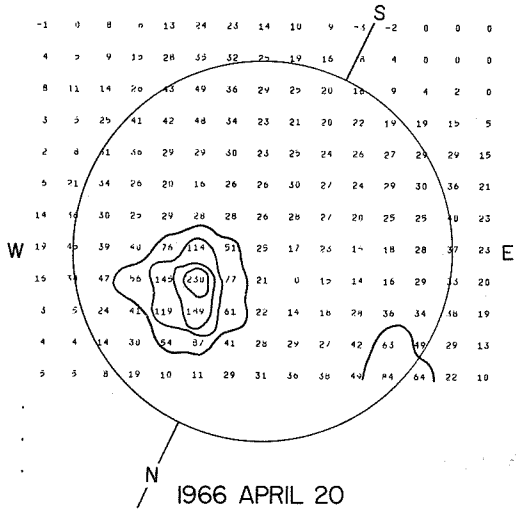
1966 APRIL 14



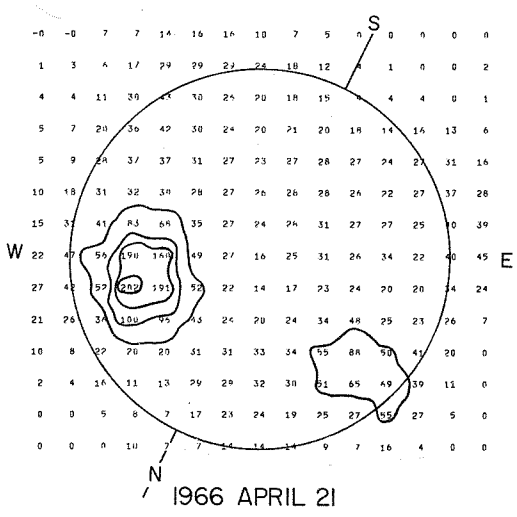
1966 APRIL 15



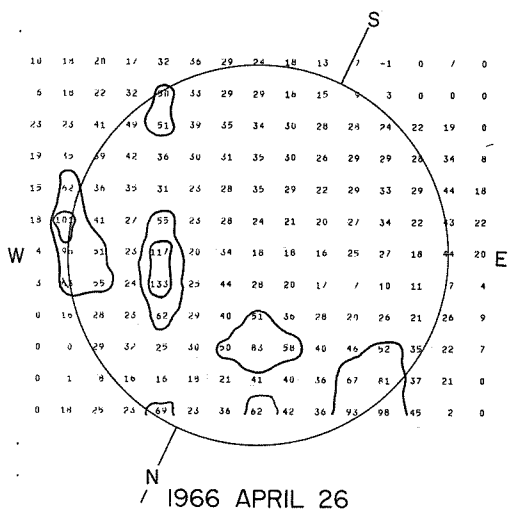
1966 APRIL 18



1966 APRIL 20



1966 APRIL 21



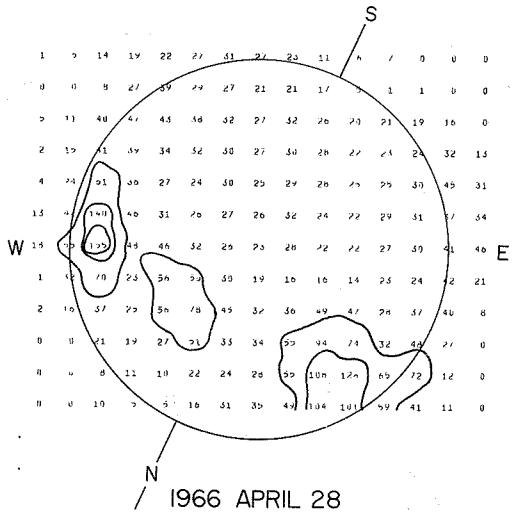
1966 APRIL 26

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

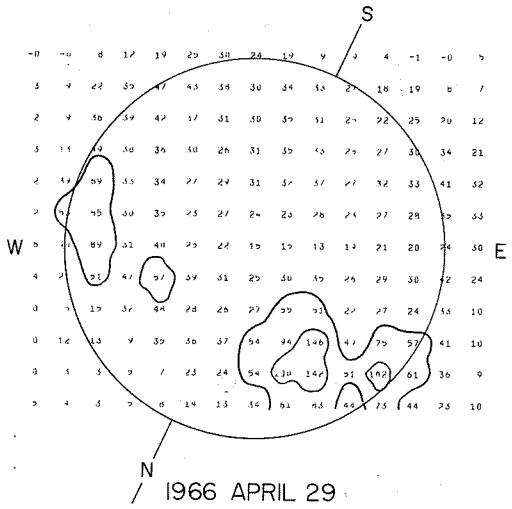
FLEURS, AUSTRALIA

APRIL 1966 MAY 1966

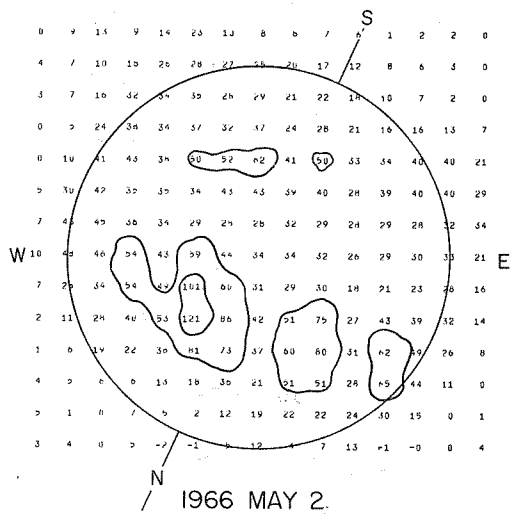
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



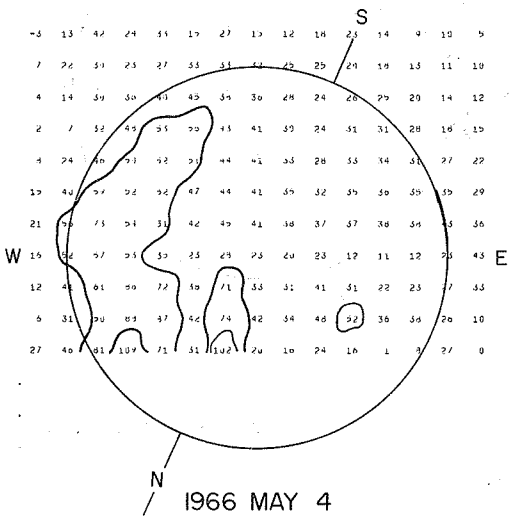
1966 APRIL 28



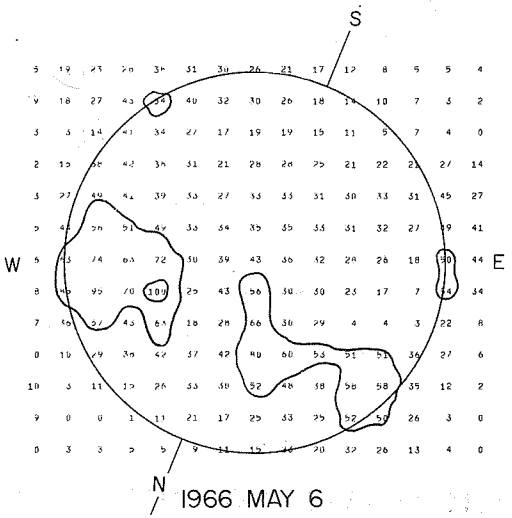
1966 APRIL 29



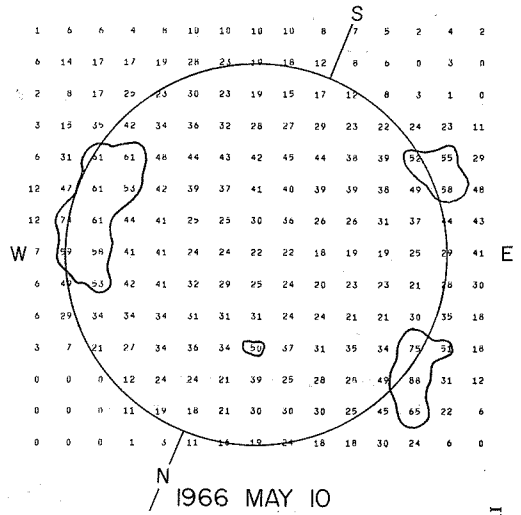
1966 MAY 2



1966 MAY 4



1966 MAY 6



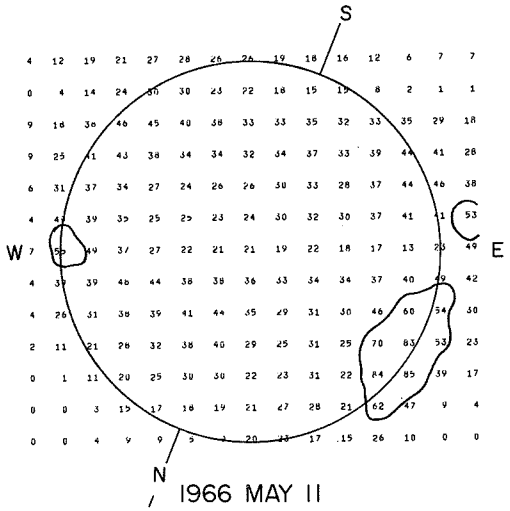
1966 MAY 10

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

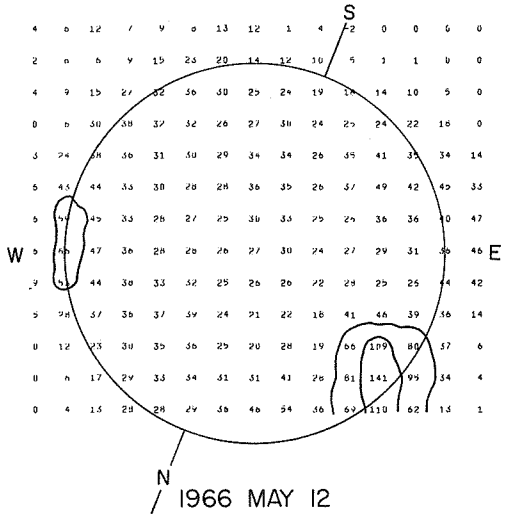
FLEURS, AUSTRALIA

MAY 1966

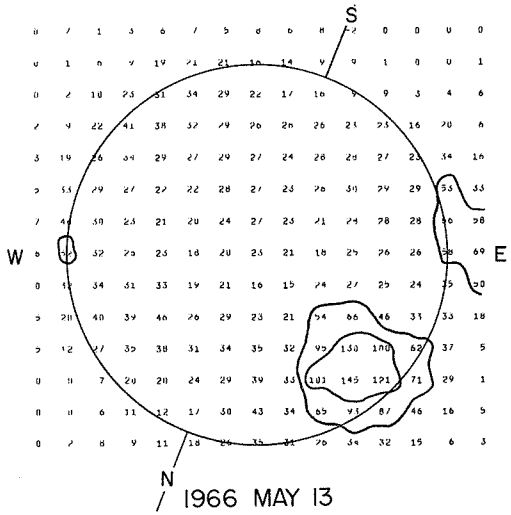
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



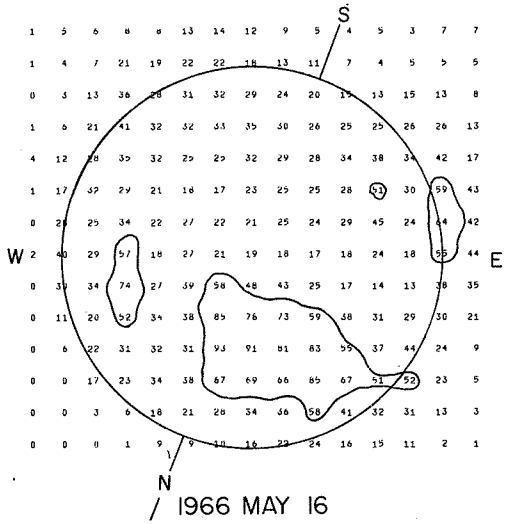
1966 MAY 11



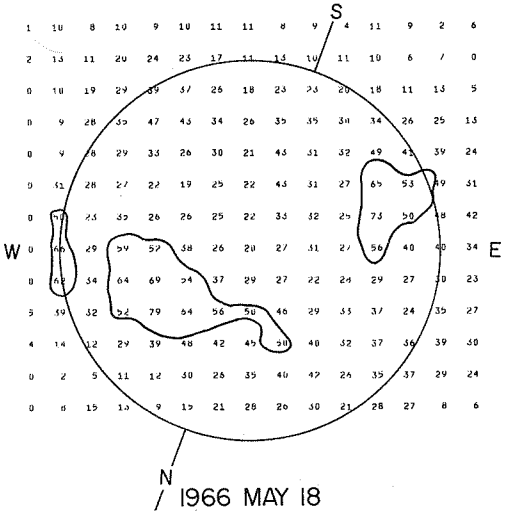
1966 MAY 12



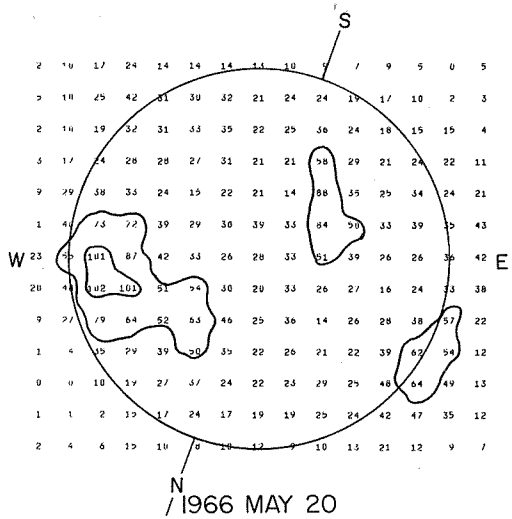
1966 MAY 13



1966 MAY 16



1966 MAY 18



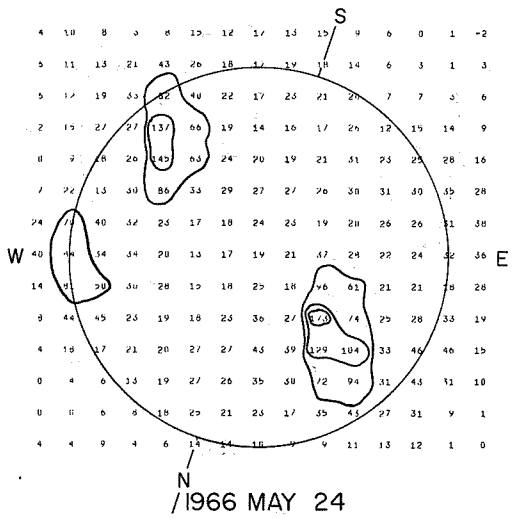
1966 MAY 20

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

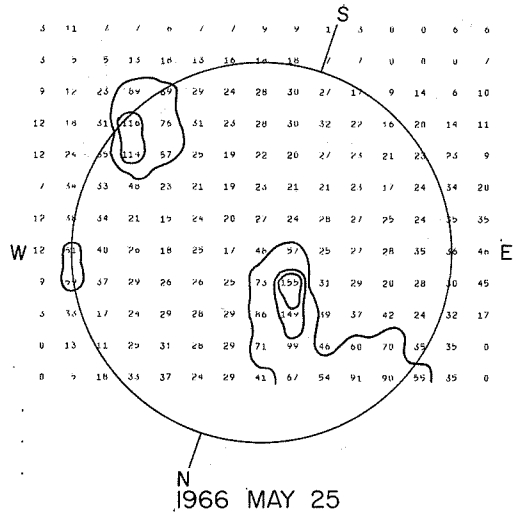
FLEURS, AUSTRALIA

MAY 1966 JUNE 1966

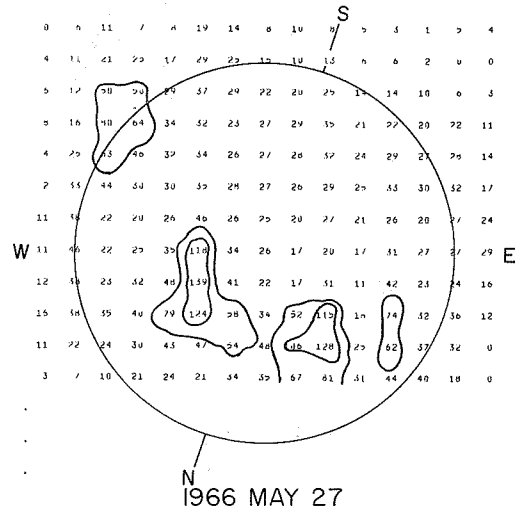
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



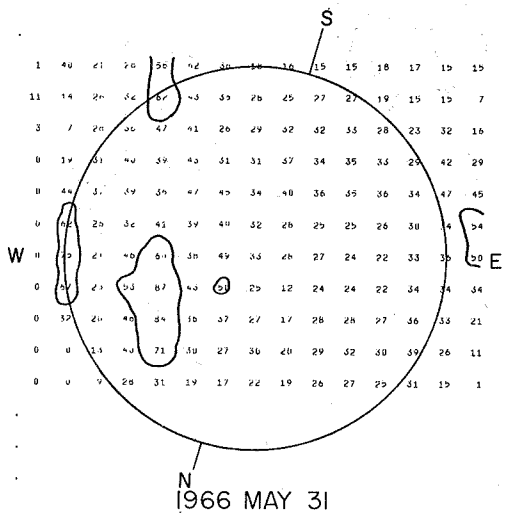
/1966 MAY 24



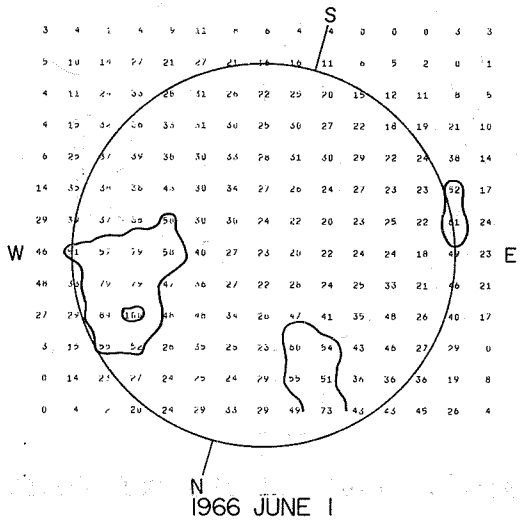
1966 MAY 25



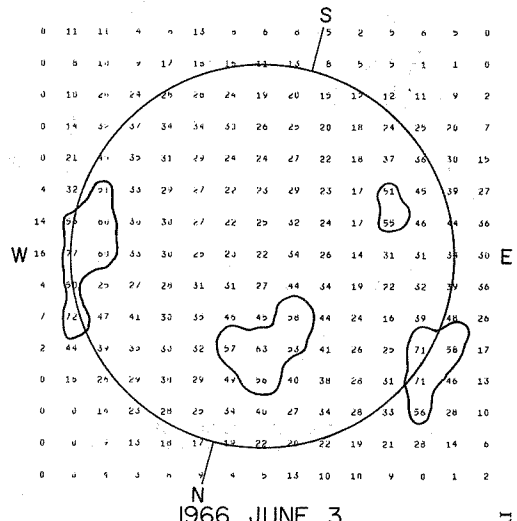
1966 MAY 27



1966 MAY 31



1966 JUNE 1



1966 JUNE 3

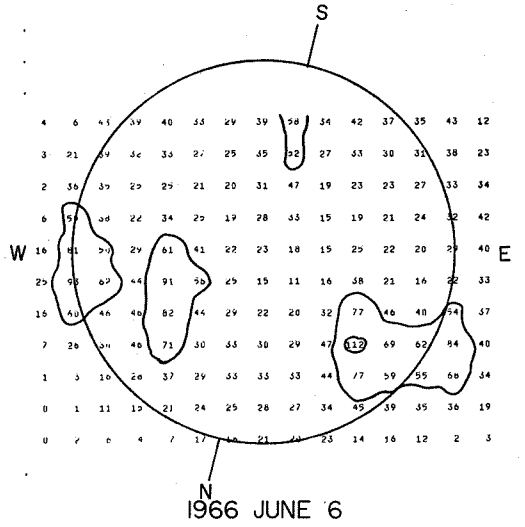
IVX

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

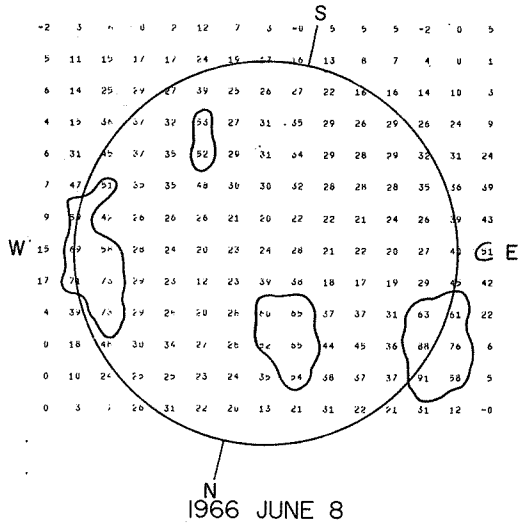
FLEURS, AUSTRALIA

JUNE 1966

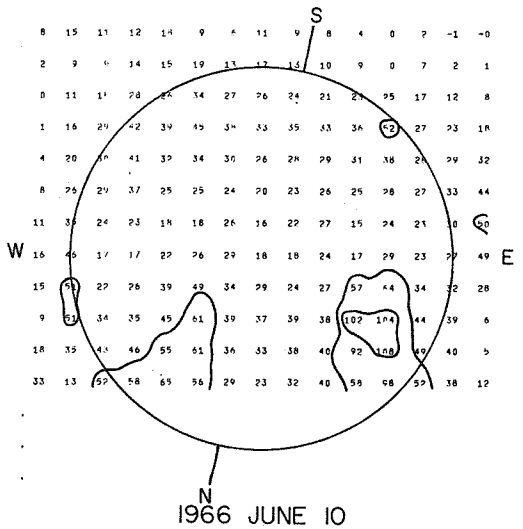
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



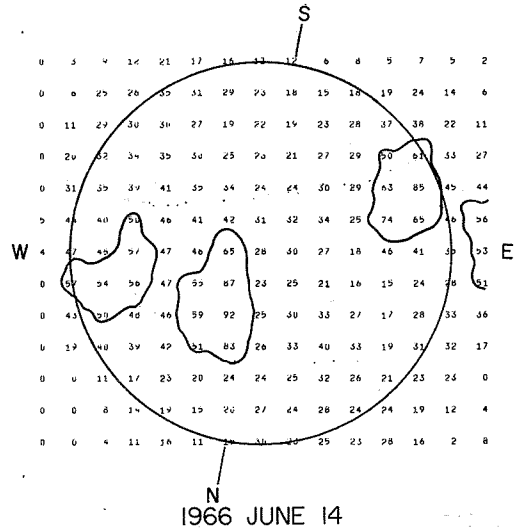
1966 JUNE 6



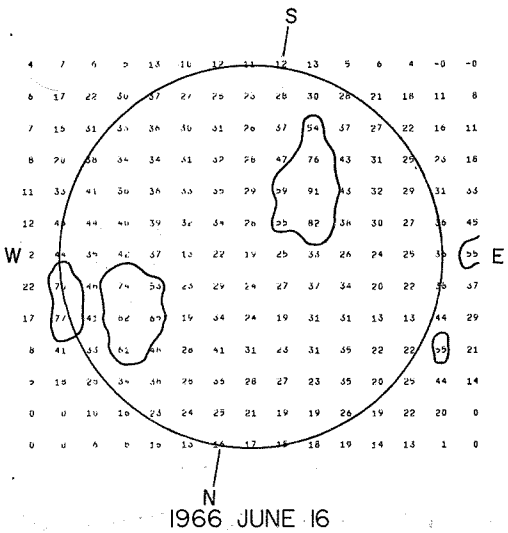
1966 JUNE 8



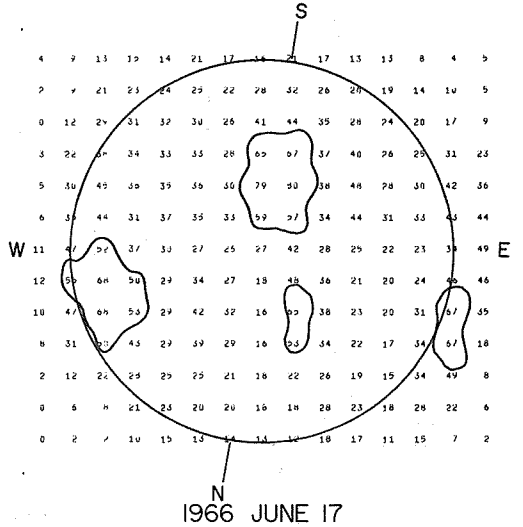
1966 JUNE 10



1966 JUNE 14



1966 JUNE 16



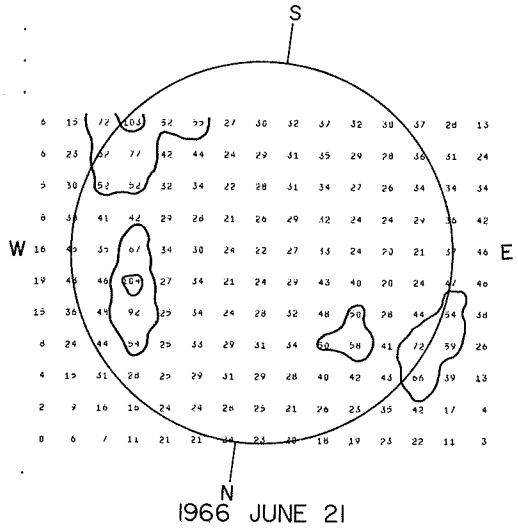
1966 JUNE 17

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

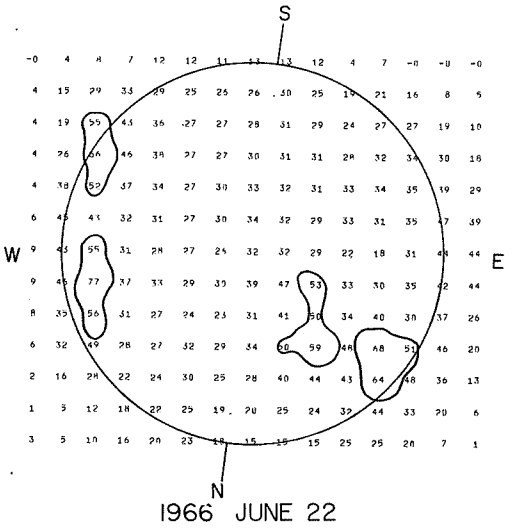
FLEURS, AUSTRALIA

JUNE 1966

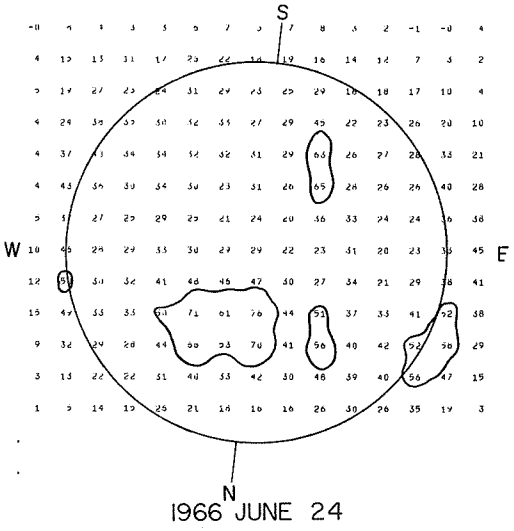
21cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



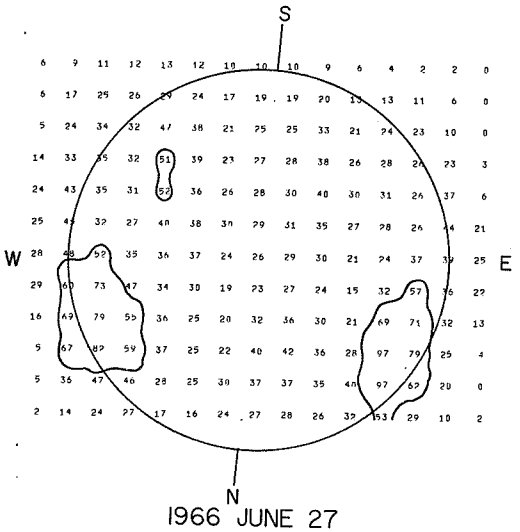
1966 JUNE 21



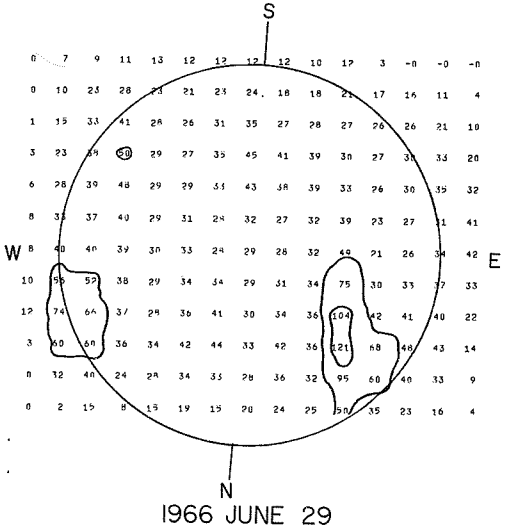
1966 JUNE 22



1966 JUNE 24



1966 JUNE 27



1966 JUNE 29

COSMIC RAY INDICES

(Neutron Monitors)

AUGUST 1966

AUG. 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	*	6820.8	4076.4	*
2		6868.8	4105.5	
3		6894.0	4109.7	
4		6797.6	4051.9	
5		6793.4	4068.9	
6		6854.5	4108.0	
7		6845.3	4118.8	
8		6867.1	4125.8	
9		6871.0	4144.6	
10		6872.6	4138.9	
11		6873.5	4150.0	
12		6894.2	4146.8	
13		6891.2	4149.0	
14		6866.0	4132.6	
15		6855.6	4118.8 (39)	
16		6864.7	4123.1	
17		6884.8	4132.9	
18		6885.4	4149.6	
19		6877.8	4145.2	
20		6872.2	4134.6	
21		6877.7	4139.7	
22		6887.3	4137.6	
23		6818.5	4090.6	
24		6814.8	4091.4	
25		6836.3	4105.1	
26		6861.3	4123.0	
27		6875.3	4132.1	
28		6891.0	4138.9	
29		6884.9	4134.5	
30		6755.7	4077.7	
31		6460.3	3874.9	

* The data for August 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).

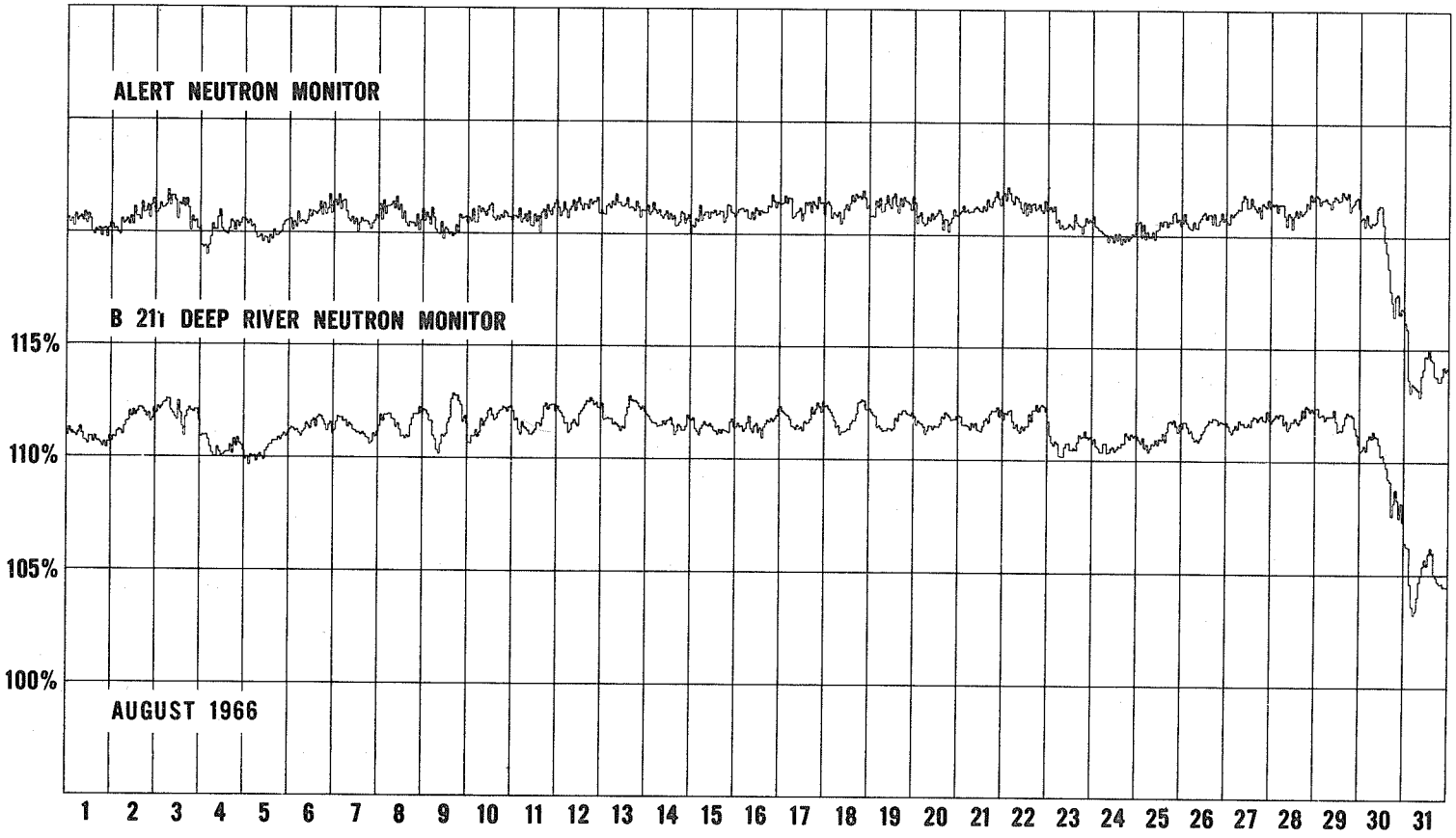
Deep River Neutron Monitor, Scaling Factor 300.

Climax IGC Station B305, Scaling Factor 100.

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

AUGUST 1966



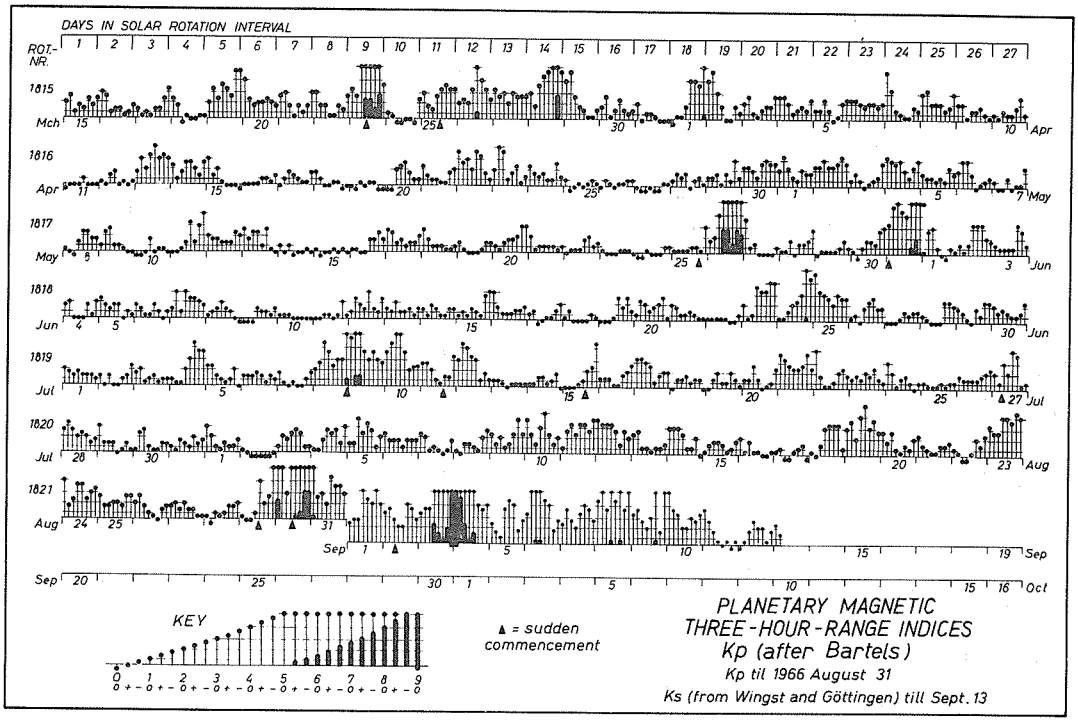
GEOMAGNETIC ACTIVITY INDICES

AUGUST 1966

DAY		Kp THREE-HOUR RANGE INDICES 1	2	3	4	5	6	7	8	SUM	Ci	Cp	Ap
1		3	2	1	1-	1+	1	1	2-	12-	0.4	0.3	6
2	QQ	1-	0+	0	0	0	0	0	0+	1+	0.0	0.0	1
3		1	2	2-	2+	3-	2+	1	1	14	0.7	0.3	7
4		1-	1-	2-	3-	2+	3-	1+	3	15	0.6	0.4	8
5		1+	1+	4-	2+	3+	3-	1	2	18-	0.7	0.6	10
6		2+	2-	2-	2-	1	2-	2-	2-	13+	0.4	0.3	6
7	Q	2+	2	1-	1	1-	0+	1-	2-	9+	0.3	0.2	5
8	Q	1-	0+	1+	1+	1	1-	2	3-	10	0.4	0.2	5
9		2+	1+	2	1	1+	2+	4-	2+	16+	0.7	0.5	9
10		4-	2+	1+	3	4	2+	1+	2	20	0.7	0.7	12
11		1	3-	3+	2+	3+	3+	3-	4-	22+	1.0	0.8	14
12		4-	3+	3+	3+	3-	1+	3-	2	22+	1.0	0.8	14
13		2+	3-	1	1	1-	1	1	1+	11	0.3	0.3	6
14		3	3	3	2+	1	1	2	0+	16-	0.5	0.5	9
15	Q	1-	1+	2-	2-	1+	1-	1	2-	10	0.2	0.2	5
16	QQ	2	1-	2-	1-	1-	0+	0+	1-	7	0.1	0.1	4
17	QQ	1-	1	0	0	1-	1	1+	0	5-	0.1	0.0	2
18		1-	0+	1+	3	3+	3+	3+	1	16+	0.6	0.6	10
19	D	3	4-	2	4	5-	3	4-	3-	27-	1.1	1.0	20
20		3-	2-	3-	1	1-	1+	1	2	13	0.4	0.3	7
21	Q	2+	1+	1	1-	1-	1+	1+	2-	10+	0.2	0.2	5
22	QQ	1	1-	0	0	1-	2	1+	2+	8	0.2	0.1	4
23	D	3+	3-	3-	4	4	4-	4+	4	29-	1.1	1.1	22
24	D	4	2-	2+	4-	4-	2+	3	3+	24	0.9	0.9	16
25		3-	2-	2-	2	2	2-	3-	3-	17	0.6	0.5	8
26		2	3-	2-	1	1-	0+	1+	2-	11+	0.3	0.3	6
27	Q	2-	2	1+	2	1+	1+	1-	1-	11	0.2	0.2	5
28	QQ	1-	0	1	1-	1	2-	2-	2	9-	0.2	0.1	4
29		1-	0+	0+	1	4	2	3-	5	16	1.0	0.8	13
30	D	7-	5	3	5	5+	6-	7+	7+	45+	1.8	1.8	82
31	D	5+	3-	3	2	4+	4-	4-	3	28-	1.2	1.1	23
										MEAN	0.58	0.49	11

For the Kp values the integers represent the former values given with a zero following the number; i.e., 0 = 0o, 1 = 1o, etc.

Preliminary storm sudden commencements (ssc) occurred August 29 at 1315 UT and August 30 at 1112 UT.



DAILY AVERAGE INDICES Ap

	1965				1966							
DAY	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.
1	6	2	4	19	2	3	3	18	8	12	5	6
2	5	16	5	9	8	3	3	13	12	10	4	1
3	4	3	1	2	6	11	10	7	5	7	4	7
4	16	1	8	11	11	13	9	8	12	4	14	8
5	9	8	13	3	4	18	5	6	6	5	5	10
6	9	2	17	3	2	8	4	7	7	4	5	6
7	7	6	9	3	7	4	2	10	4	9	4	5
8	4	15	4	4	8	4	3	10	5	4	22	5
9	3	4	5	6	8	3	4	5	5	3	36	9
10	3	3	0	10	7	7	10	5	2	2	25	12
11	4	3	3	10	2	12	6	2	10	3	8	14
12	11	6	3	10	2	5	6	3	6	7	15	14
13	6	8	10	6	2	6	14	15	7	5	3	6
14	3	6	3	2	3	2	64	8	2	4	4	9
15	15	2	2	1	5	4	7	4	2	6	8	5
16	35	2	1	1	0	5	7	3	5	6	6	4
17	18	2	4	2	2	4	6	4	7	4	11	2
18	16	6	6	12	5	3	4	3	5	3	4	10
19	17	4	10	7	3	14	20	2	3	6	5	20
20	5	2	17	4	15	17	10	5	8	7	6	7
21	5	1	10	2	23	4	8	5	4	4	14	5
22	5	14	4	6	27	14	7	13	4	3	8	4
23	10	19	2	3	14	28	67	10	2	17	6	22
24	10	14	4	9	14	19	2	6	2	16	6	16
25	12	11	5	12	11	10	14	3	5	16	4	8
26	9	7	4	19	14	3	20	3	78	6	6	6
27	20	6	4	10	3	4	13	1	5	4	11	5
28	27	15	2	16	7	2	42	4	5	5	10	4
29	7	5	3	8	6		12	6	4	6	5	13
30	3	8	12	6	2		6	10	6	6	6	82
31		6		3	2		3		48		5	23
MEAN	10	7	6	7	7	8	13	7	9	6	12	11

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

NORTH ATLANTIC, NORTH PACIFIC — AUGUST 1966

AUG. 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	7-	6	6	7	7o	7-	7-	7o	7	7	7	7	6	6	6	6	2	1	7	4	2	1	6
02	7-	6	6	7	7-	6+	7o	7o	7	7	7	7	6	6	6	6	0	0	1	4	0	0	0
03	7o	6	7	7	7o	7-	7o	7o	7	7	7	7	6	6	6	6	2	2	7	2	2	1	5
04	7-	6	6	7	7o	7-	7-	7o	7	7	7	7	6	6	6	6	1	2	7	5	2	2	7
05	7-	6	6	7	7o	7-	7-	7o	6	6	7	7	6	6	6	6	2	2	9	8	2	2	10
06	7o	6	7	7	7o	7o	7o	7o	7	7	7	7	6	6	6	6	2	1	5	8	1	1	3
07	7o	6	7	7	7o	6+	7o	7+	7	7	7	7	6	6	6	6	2	1	6	8	1	0	3
08	7o	6	7	7	7o	7-	7-	7o	7	7	7	7	6	6	6	6	1	2	7	5	0	1	2
09	7-	6	6	7	7-	6+	7o	7o	7	7	7	7	6	6	6	6	2	2	7	5	2	2	7
10	7-	6	6	7	7-	6+	7-	7-	7	6	7	7	6	6	5	6	3	2	11	2	2	2	10
11	7-	6	6	7	7-	6o	7o	7-	7	6	7	7	6	6	5	6	3	3	14	11	3	2	15
12	6+	6	6	7	7-	5+	7o	7-	7	6	7	7	6	6	6	6	3	2	13	11	(4)	2	17
13	7-	6	6	7	7-	6+	7o	7-	7	6	7	7	6	5	6	5	2	1	5	8	2	1	5
14	7-	6	6	7	7-	6+	7-	7o	7	6	7	7	5	5	6	6	3	1	11	5	2	0	6
15	7-	6	6	7	7-	6+	7o	7+	7	7	7	7	6	6	5	6	2	1	7	5	2	1	7
16	7-	6	6	7	7-	7-	7o	7+	7	6	7	7	6	5	6	7	2	1	4	7	1	0	2
17	7-	6	6	7	7-	6+	7o	7o	7	7	7	7	6	6	6	6	1	0	1	7	0	0	0
18	7-	6	6	7	7-	7-	7o	7o	7	7	7	7	6	6	6	6	2	2	8	7	1	3	9
19	7-	6	6	7	7-	6+	7o	7o	7	6	7	7	6	6	6	6	3	3	15	10	(4)	3	29
20	7-	6	6	7	7-	6o	7-	7+	7	6	7	7	6	6	6	6	2	1	7	10	2	0	5
21	7-	6	6	7	7-	7-	7o	7o	7	7	7	7	6	6	6	6	1	1	4	5	1	1	4
22	7-	6	6	7	7-	6+	7o	7o	7	7	7	7	6	6	6	6	1	1	4	5	0	1	2
23	7-	6	6	7	7-	7-	7-	7o	7	6	7	7	6	6	6	6	3	(4)	18	9	3	3	17
24	7-	6	6	7	7-	6-	7-	7o	6	6	7	7	6	6	6	6	3	3	16	9	2	2	10
25	7-	6	6	6	7-	6-	7-	7o	6	6	7	7	6	6	6	6	2	2	7	11	2	2	8
26	7-	6	6	6	7-	6-	7-	7o	7	6	7	7	6	6	6	6	2	1	5	7	2	0	4
27	7-	6	6	7	7-	6+	7-	7o	7	6	7	7	7	6	6	6	2	1	4	7	2	1	4
28	7-	6	6	7	7o	6+	6o	7o	7	6	7	7	6	6	6	5	1	2	4	5	0	1	2
29	7-	6	6	7	7o	6+	7-	7o	7	7	7	7	6	6	6	5	1	3	9	5	0	2	5
30	6-	5	5	7	5+	5+	7-	5+	5	3	7	6	5	6	5	6	(4)	(5)	43	7	(5)	(5)	44
31	6-	5	5	7	4+	5-	7-	7o	4	4	6	6	5	5	5	6	3	3	16	7	3	3	15

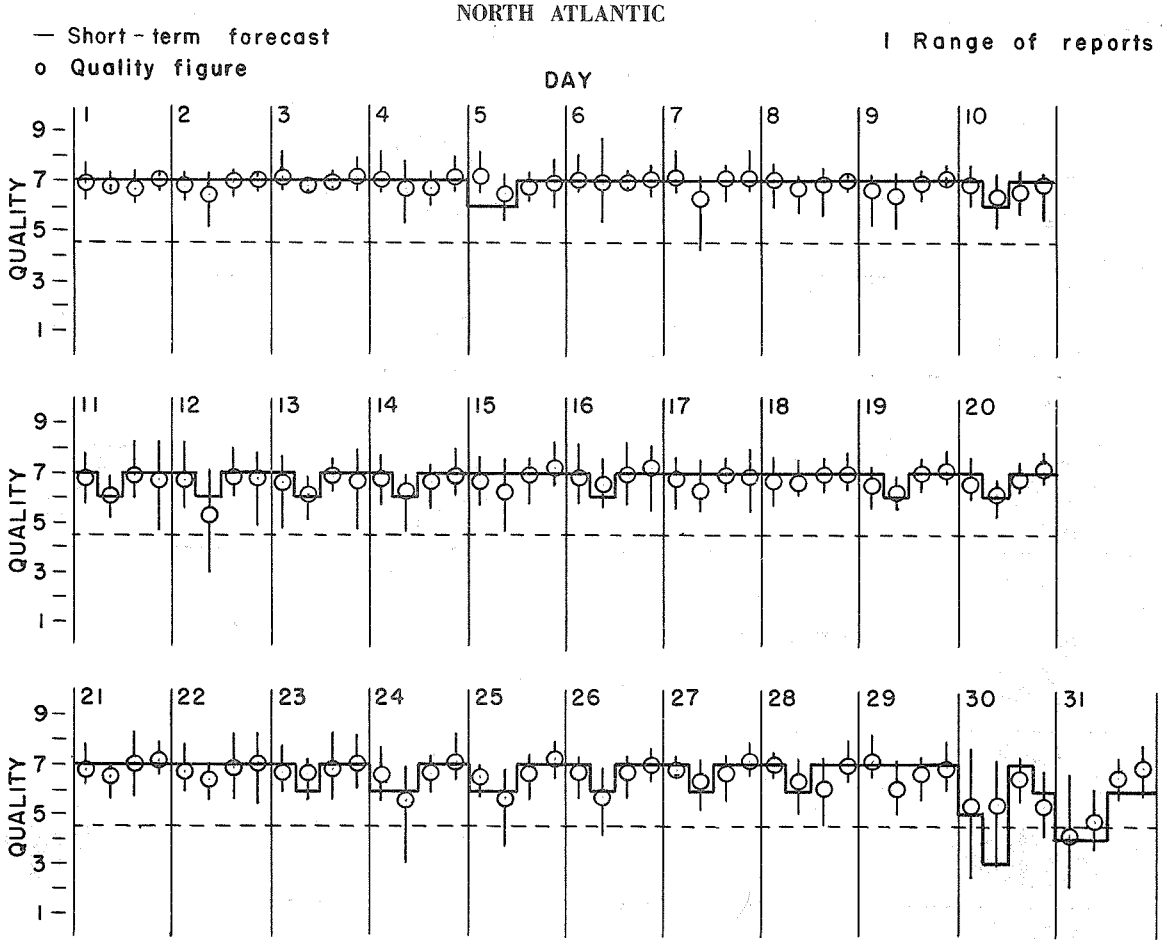
QUIET	P	6	27	18	29	29
	S	23	3	12	2	2
	U	2	0	1	0	0
	F	0	0	0	0	0
DISTURBED	P	0	1	0	0	0
	S	0	0	0	0	0
	U	0	0	0	0	0
	F	0	0	0	0	0

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

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

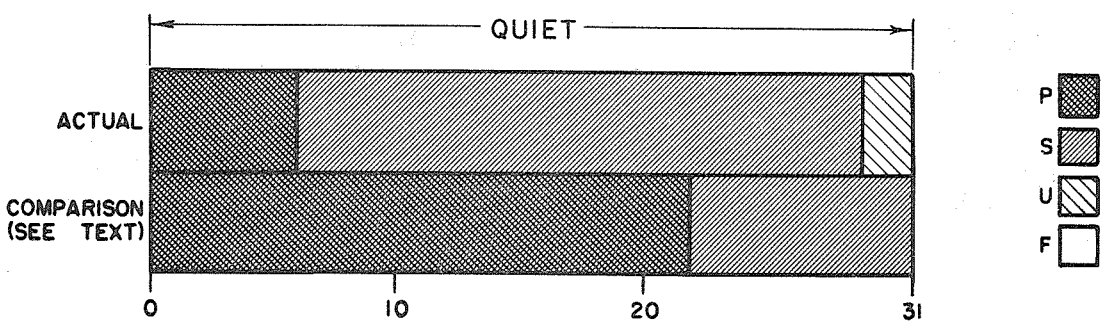
AUGUST 1966

NORTH ATLANTIC



Outcome of advance forecasts - final estimates (1 to 7 days ahead) - High Latitude radio propagation conditions

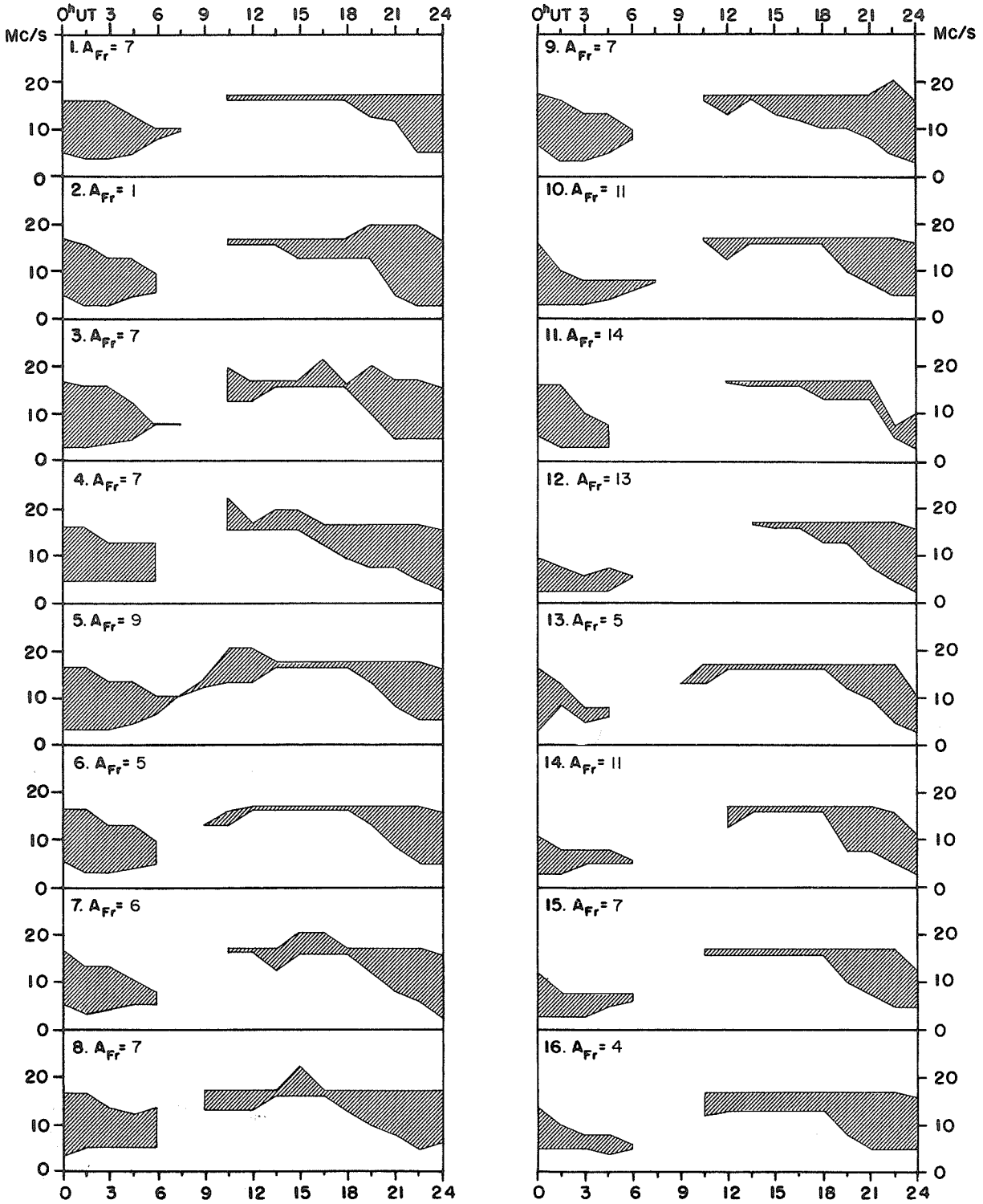
HIGH LATITUDE



VIIc

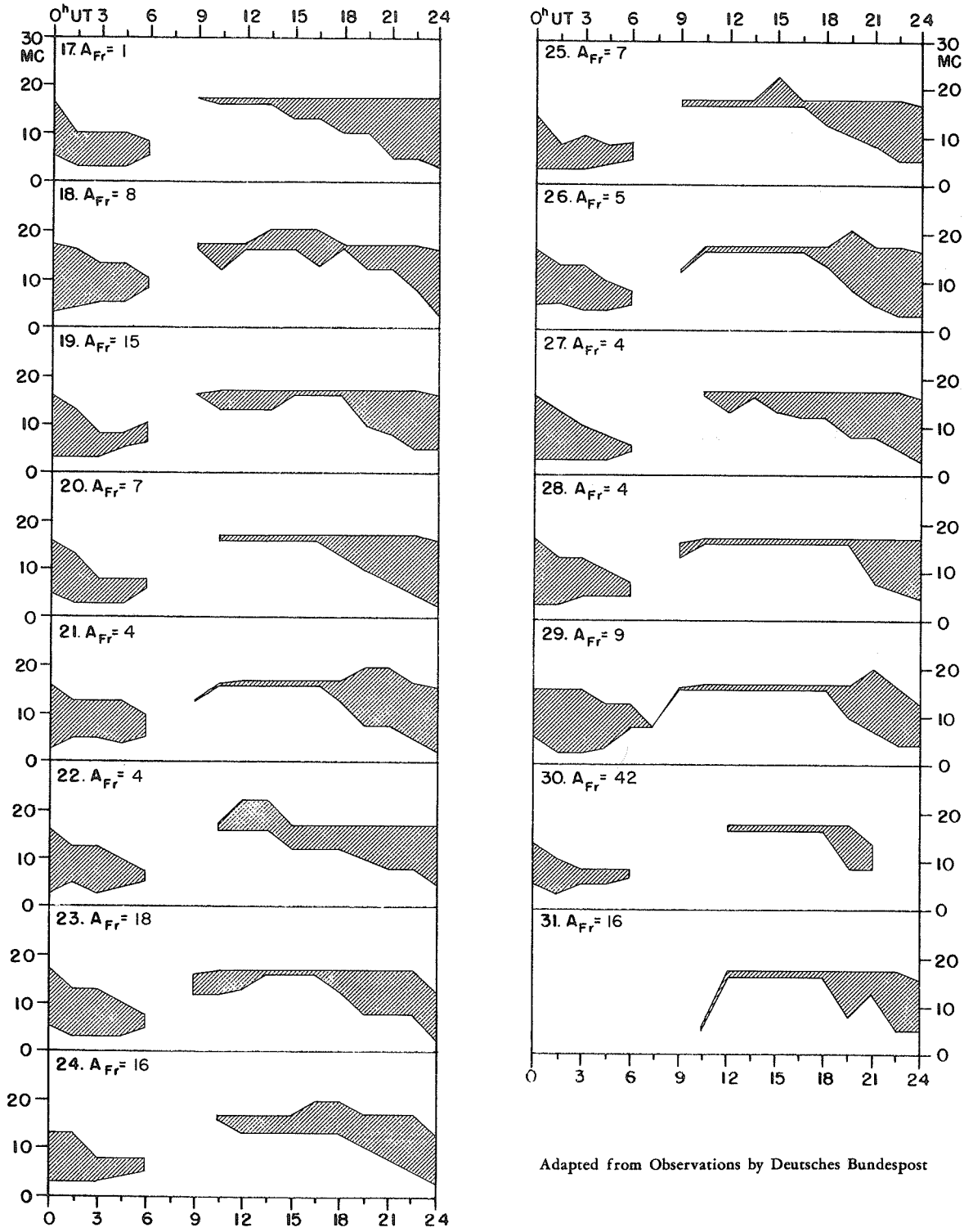
USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

AUGUST 1966



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

AUGUST 1966



Adapted from Observations by Deutsches Bundespost

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

SEPTEMBER 1966

Sep. 1966	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
1	0400		393	Solar Activity	Exists	
2	0400		394	Solar Activity	Exists	
	1245	Athens, Solar Flare 02/0538Z				
3	0400		395	Cosmic Event	Exists	Polar Cap Absorption
			396	Magnetic Storm	Expected	
4	0010	AGIWARN, Magnetic Storm 03/10xxZ				
	0400		397	Solar Activity	Exists	
			398	Magnetic Storm	03/10xxZ	Aurora Probable
	1220	Manila, Solar Flare 04/0410Z				
	1438*	ADALERTPRESTO TENFLARE Toyokawa 040410Z				
5	0400		399	Magnetic Storm	Expected	
6	0400		400	Magnetic Storm	Expected	
12	1135*	ADALERTPRESTO TENFLARE NERA 120925Z				
13	0400		401	Solar Activity	Exists	East Limb
14	0400		402	Solar Activity	Exists	
15	0400		403	Solar Activity	Exists	
16	0400		404	Solar Activity	Exists	Beta-gamma Spot
17	0400		405	Solar Activity	Exists	
18	0400		406	Solar Activity	Exists	Delta Configuration Spot
19	0400		407	Solar Activity	Exists	
	1248	McMath, Solar Flare 19/1210Z				
20	0400		408	Solar Activity	Exists	
21	0400		409	Solar Activity	Exists	Flares
22	0400		410	Solar Activity	Exists	
23	0400		411	Solar Activity	Exists	
24	0400		412	Solar Activity	Exists	

* Time when Alert was relayed by AGIWARN