COMPILATIONS

OF

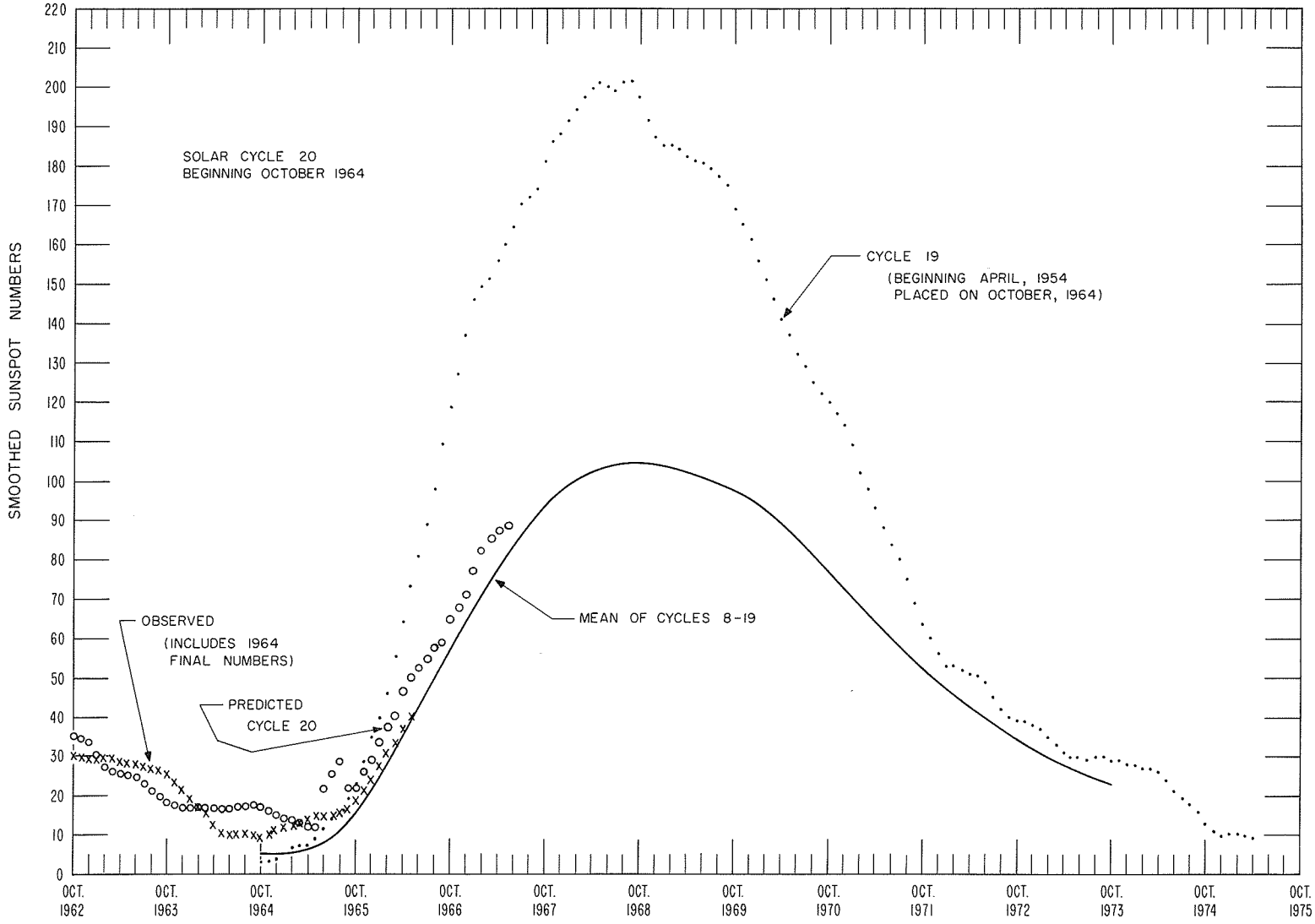
SOLAR-GEOPHYSICAL DATA

Abstracted from CRPL-FB-268

Issued December 1966

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

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



PREDICTED AND OBSERVED SUNSPOT NUMBERS

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

1965 1966

	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.
1	13	18	7	25	64	50	71	49	78	44	57	43
2	8	17	9	11	58	48	74	49	62	44	55	42
3	8	16	20	11	74	57	41	54	65	25	50	33
4	8	15	17	18	74	61	60	53	51	18	36	38
5	8	8	17	12	55	38	43	48	53	26	40	20
6	8	7	17	14	59	23	43	46	50	30	44	32
7	8	7	16	10	70	13	38	58	31	36	53	48
8	15	13	13	9	65	16	35	68	13	38	48	51
9	7	13	10	15	47	8	33	56	7	39	44	56
10	7	7	11	13	37	0	25	58	0	37	65	62
11	0	8	14	10	25	14	43	52	16	42	66	72
12	0	0	8	0	27	14	34	62	36	38	49	80
13	14	17	16	0	24	23	34	56	30	29	72	68
14	0	30	12	0	29	52	31	37	37	35	64	66
15	14	36	16	9	29	46	22	34	41	38	60	62
16	22	57	13	26	35	47	40	48	36	57	70	44
17	21	50	19	44	40	33	46	42	35	76	70	54
18	20	64	24	53	40	27	39	49	35	83	70	51
19	18	68	32	60	24	34	33	38	27	76	66	61
20	15	63	39	54	37	57	42	65	24	78	81	70
21	10	52	41	49	40	80	29	55	22	89	96	72
22	11	44	50	52	56	66	34	66	38	86	81	82
23	9	38	55	40	69	68	59	56	65	71	70	76
24	8	41	42	31	58	68	63	70	71	62	61	72
25	12	27	37	23	56	64	80	67	89	68	50	74
26	23	19	36	18	54	70	78	74	95	54	44	67
27	29	16	35	10	40	66	69	52	90	48	39	59
28	64	14	31	12	40	60	52	61	84	35	28	41
29	64	19		35	48	39	47	76	89	40	25	37
30	44	28		42	52	58	55	63	76	38	24	37
31	38	15		52		56		66	66		35	
MEAN	17.0	26.7	23.5	24.5	47.5	43.7	46.4	55.7	48.8	49.3	55.3	55.7

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

AMERICAN, $R_{A'}$

1965 1966

	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.
1	10	25	0	11	32	24	56	33	77	30	53	36
2	10	21	12	12	37	37	48	37	70	28	44	36
3	10	19	14	14	34	35	41	54	69	18	42	23
4	9	13	16	16	49	19	50	51	64	16	39	12
5	10	7	17	15	40	15	39	36	46	15	34	30
6	12	1	15	14	47	17	26	30	40	20	44	37
7	9	0	14	10	49	12	22	52	23	27	41	53
8	2	1	13	10	55	11	26	45	8	36	39	47
9	3	0	12	16	36	8	27	49	0	36	45	49
10	0	0	14	15	26	0	24	44	1	48	44	59
11	0	0	15	7	19	0	26	56	17	41	73	78
12	0	0	11	0	22	5	32	47	24	32	55	66
13	0	19	12	3	16	9	18	27	31	28	72	66
14	0	30	14	1	22	22	21	19	28	31	65	45
15	18	37	13	15	31	28	24	14	33	37	57	60
16	21	31	16	21	28	24	33	33	42	47	59	47
17	18	43	13	43	28	18	36	40	38	61	66	51
18	19	43	25	46	29	14	31	40	33	58	65	53
19	16	55	24	46	16	33	27	35	29	67	73	54
20	0	55	33	41	42	56	28	46	15	63	82	68
21	7	41	36	32	38	59	32	38	17	77	78	64
22	8	34	43	29	42	51	42	43	43	63	77	69
23	10	36	55	19	58	59	58	56	66	64	64	57
24	6	31	47	17	51	59	61	59	83	57	60	54
25	17	18	47	16	47	49	66	57	89	65	47	53
26	20	14	47	10	34	61	62	65	96	39	41	51
27	35	15	32	0	22	48	44	62	95	26	16	50
28	44	14	28	12	22	41	35	75	86	26	3	40
29	55	20		36	33	40	29	71	81	35	28	47
30	47	21		41	33	37	33	75	51	36	29	45
31	28	3		32		56		75	33		35	
MEAN	14.3	20.9	22.8	19.4	34.6	30.5	36.6	47.2	46.1	40.9	50.6	50.0

DAILY SOLAR FLUX AT 2800 Mc/s
OTTAWA ARO

OBSERVED FLUX, S

1965 1966

	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.
1	75.4	82.0	79.9	81.2	106.9*	90.3	101.9	96.8	122.2	114.5	101.2	96.0
2	75.0	78.9	79.2*	78.0	106.4	92.5	101.0	95.0	116.1	104.4	101.9	98.3
3	74.9	78.5	79.8	77.1	102.1	92.4	99.7	96.0	114.8*	101.5	103.1	94.6
4	74.5	80.5	81.3	76.7	102.5	91.0	99.1	101.4	112.7*	100.2	100.6*	93.3
5	75.4	80.0	82.9	76.0	101.9	87.0	98.7	101.6	107.4	98.9	100.0	99.6
6	76.2	79.7	84.5	76.6	104.0	86.0	98.9	106.1	103.0	96.4	102.0*	106.6
7	75.3	80.9	85.1	77.4	102.6*	88.2	94.1	108.9	98.7	94.4*	103.2	115.5
8	76.7	80.6	84.6	77.5	107.0*	86.2	96.6	110.6	95.0	94.8*	99.6	119.2
9	75.0	80.1	85.2	79.6	100.0	85.9	95.9	104.3	93.8	94.0	103.8	119.5
10	75.3	79.8	86.0	79.6	94.4	84.9	93.9	104.6*	91.8	92.6	106.8	124.4
11	75.6	80.9	85.8*	79.0	93.5	86.6	93.2	105.4	90.1	95.4	110.3	128.7
12	75.9	84.0	85.4	79.3	94.4	90.7	93.0	99.4	90.4	99.5*	115.3	128.9
13	74.0	87.2	86.1	81.0	92.6	91.0	93.1	97.2	90.8	101.1	123.4*	129.1
14	74.7	93.2	86.1	82.3	90.5	95.1	93.9	96.6	90.5	106.0	120.9	126.7
15	76.8	101.9	85.4	88.1*	95.7	97.1	91.8	97.9	91.3	110.8	121.3	125.4
16	77.6	106.0	84.7	93.8*	92.6	97.9	94.9	99.5	92.8	123.3*	121.2*	123.9
17	78.4	101.7*	84.1	106.2*	94.5	96.7	96.4	98.0	94.4	127.8	121.4*	115.9
18	78.4	104.8*	84.1	110.6	92.1	96.4	95.1	98.1	95.1	141.3	119.5*	116.1
19	76.8	108.6*	83.0	115.5	88.2	104.6*	93.8	98.3	97.7	145.3	116.5*	113.7
20	74.5	102.3	84.7*	111.9	92.6	112.8*	91.3	98.6	99.2	144.9*	125.2	113.6
21	74.1	98.9	87.6	121.2	90.8	120.6	90.5	100.5	100.4	136.1	122.0*	113.4*
22	72.3	94.7*	87.9	105.8	92.4	118.1	93.0	103.2	103.1	130.6*	121.0*	119.5
23	72.7	93.5	84.5*	96.8	97.8	111.1	96.0	111.3	112.2	126.6*	112.2	117.6*
24	71.2	91.8	83.7	93.5	102.5	114.7	100.2	116.9	119.4*	125.3	107.3	116.8
25	72.1	88.1	80.9	91.6	102.6*	112.2	101.5*	122.1	123.6*	118.2*	102.0	113.7
26	76.9	85.4	84.8	85.0	100.0*	109.4	102.1*	123.7	127.5	108.9	98.9	110.2
27	83.7	82.4	84.8	83.4	95.6	105.6	97.5	120.1	130.7	102.5	93.2	114.2*
28	83.8	80.5	85.7	87.9	93.6		98.1	120.5	130.0*	97.5	95.4	107.0
29	84.7	80.7		96.4	93.1	103.2	96.5	128.9	127.3	98.3	101.1	100.7
30	81.9	78.7		99.2	91.9	98.8	97.4	124.2	123.8	95.4	97.1	97.3*
31	80.8	77.7		110.6		102.7		121.0	118.7		98.6	
MEAN	76.5	87.9	84.2	90.3	97.2	98.3	96.3	106.7	106.5	110.9	108.6	113.3

FLUX ADJUSTED TO 1 A.U., S_a

1965 1966

	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.
1	73.3	79.3	77.6	79.7	106.8*	91.7	104.8	100.1	125.9	116.6	101.4	94.6
2	72.9	76.3	76.9*	76.7	106.3	94.0	103.9	98.2	119.6	106.3	102.0	96.7
3	72.7	75.9	77.5	75.8	102.1	94.0	102.6	99.3	118.2*	103.2	103.2	93.1
4	72.3	77.8	79.0	75.5	102.6	92.5	102.0	104.8	116.0*	101.9	100.6*	91.7
5	73.2	77.4	80.6	74.8	102.0	88.6	101.7	105.0	110.5	100.5	100.0	97.9
6	74.0	77.1	82.1	75.5	104.2	87.5	101.9	109.7	106.0	97.9	101.9*	104.7
7	73.0	78.2	82.8	76.2	102.8*	89.9	96.9	112.6	101.5	95.8*	103.1	113.4
8	74.4	77.9	82.3	76.4	107.3*	87.8	99.5	114.4	97.7	96.2*	99.4	116.9
9	72.7	77.4	82.9	78.5	100.3	87.5	98.9	107.8	96.4	95.3	103.5	117.2
10	73.0	77.2	83.8	78.6	94.8	86.6	96.8	108.1*	94.3	93.9	106.5	121.9
11	73.2	78.2	83.6*	78.0	93.9	88.3	96.1	109.0	92.5	96.6	109.8	126.1
12	73.5	81.2	83.2	78.3	94.8	92.6	95.9	102.7	92.8	100.8*	114.8	126.2
13	71.7	84.3	83.9	80.0	93.1	92.9	96.1	100.4	93.2	102.4	122.8*	126.4
14	72.4	90.1	83.9	81.4	91.0	97.2	96.9	99.8	92.8	107.4	120.3	124.0
15	74.4	98.5	83.3	87.1*	96.3	99.2	94.7	101.1	93.7	112.0	120.6	122.6
16	75.1	102.6	82.7	92.9*	93.2	100.1	97.9	102.8	95.1	124.6*	120.3*	121.2
17	75.9	98.4*	82.1	105.1*	95.2	98.9	99.5	101.2	96.8	129.1	120.5*	113.2
18	75.9	101.4*	82.2	109.6	92.9	98.7	98.2	101.3	97.5	142.6	118.5*	113.4
19	74.3	105.1*	81.1	114.6	89.0	107.1*	96.9	101.5	100.0	146.6	115.6*	111.0
20	72.1	99.0	82.8*	111.0	93.5	115.5*	94.3	101.8	101.6	146.0*	124.1	110.9
21	71.7	95.7	85.7	120.3	91.7	123.6	93.5	103.7	102.7	137.2	120.9*	110.7*
22	70.0	91.8*	86.0	105.1	93.4	121.0	96.1	106.5	105.5	131.5*	119.8*	116.5
23	70.3	90.6	82.7*	96.2	98.8	113.9	99.2	114.9	114.7	127.5*	111.1	114.7*
24	68.8	88.9	81.9	92.9	103.7	117.7	103.5	120.6	122.0*	126.0	106.1	113.8
25	69.7	85.4	79.3	91.1	103.8*	115.1	104.8*	126.0	126.3*	118.8*	100.8	110.7
26	74.4	82.7	83.1	84.7	101.3*	112.3	105.6*	127.6	130.2	109.4	97.7	107.3
27	80.9	79.9	83.2	83.1	96.0	108.5	100.8	123.8	133.4	102.9	92.0	111.1*
28	81.0	78.1	84.1	87.6	94.9		101.4	124.2	132.6*	97.9	94.1	104.1
29	81.9	78.3		96.1	94.5	106.8	99.8	132.9	129.8	98.6	99.7	98.0
30	79.2	76.3		99.0	93.3	101.6	100.7	128.0	126.1	95.7	95.7	94.6*
31	78.1	75.4		110.4		105.6		124.6	120.9		97.1	
MEAN	74.1	85.0	82.1	89.4	97.8	100.6	99.4	110.1	109.2	112.4	107.9	110.8

CALCIUM PLAGE AND SUNSPOT REGIONS

NOVEMBER 1966

Nov. 1966	LAT.	MCMATH PLAGE NUMBER	RETURN OF REGION	CALCIUM PLAGE DATA						SUNSPOT DATA		
				CMP VALUES		HISTORY	AGE (ROTATIONS)	DATE FIRST SEEN	DURATION (DAYS)	CMP VALUES		HISTORY
				AREA	INT.					AREA	COUNT	
2.4	S23	8563	8528	(2000)	(3.0)	ℓ ⌜ ℓ	2	10/26	≥12	(10)	(1)	ℓ - d
										(10)	(4)	b - ℓ
3.6	N19	8569	New	(500)	(2.0)	b - ?	1	10/31	>7			
5.8	N23	8568	8530	(3700)	(2.5)	ℓ / ?	6	10/29	>9			
6.6	N16	8571	New	1400	3.0	ℓ \ ℓ	1	10/31	13	10	25	ℓ - d
										(10)	(2)	b - d
8.2	N24	8577	New	(200)	(2.0)	b - d	1	11/13	1			
										(10)	(8)	b - d
10.2	N18	8572 (1)	New	(3600)	(3.5)	ℓ ⌜ ℓ	1	11/4	13	50	14	b ∧ ℓ
										20	14	b ⌜ ℓ
11.9	S27	8576	New	(200)	(1.5)	b - d	1	≤11/12	≥2			
										420	30	ℓ ⌟ ℓ
										220	53	ℓ ∧ ℓ
										10	7	b - d
13.4	N14	8573 (2)	8545	10000	3.0	ℓ ∧ ℓ	3&4	11/6	15	(10)	(3)	b - d
										(10)	(1)	b - d
										(10)	(3)	b - d
										(10)	(3)	b - d
16.6	N14	8587	New	(300)	(2.0)	b - ℓ	1	11/19	4	(10)	(1)	b - d
										10	5	b - d
17.8	N29	8574	8550	(500)	(1.5)	ℓ - d	2	<11/12	>9			
18.8	N19	8575	New	(300)	(1.5)	ℓ - d	1	11/12	5			
19.3	S15	8588	New	200	2.5	b - ?	1	11/19	>4	(20)	(9)	b - d
20.1	S23	8579 (3)	8561	600	1.5	ℓ - d	2	11/14	9			
20.3	N23	8578	8553	3600	3.0	ℓ ∧ ℓ	3	11/13	13	90	17	ℓ ∧ ℓ
										(10)	(1)	b - d
21.2	S22	8581 (4)	8554	600	2.5	ℓ ⌞ ℓ	3	11/15	12			
21.2	N22	8589	New	2400	3.5	b ⌜ ℓ	1	11/19	8	260	37	b ∧ ℓ
21.4	N13	8583	8556	500	1.5	ℓ - d	2	<11/16	>7			
22.4	S23	8585 (4)	8554	600	1.5	ℓ - ℓ	3	<11/18	>5			
23.7	N31	8584	8555	(4800)	(3.5)	ℓ ∧ ℓ	2	11/16	15	140	17	ℓ ∧ ℓ
										(10)	(1)	ℓ - d
25.2	N22	8586	8566	1400	2.0	ℓ ⌟ ℓ	2	11/18	14	(10)	(6)	b ∧ ℓ
25.4	N45	8595	New	(300)	(2.0)	b - d	1	11/26	≥1			
27.4	N21	8591	8567	(1000)	(2.5)	ℓ ¬ ℓ	2	11/20	14	(10)	(4)	ℓ - d
29.3	S23	8592 (5)	8563	(700)	(2.5)	ℓ ∧ ℓ	3	<11/25	>9			
30.2	N18	8593	New	(2000)	(3.5)	b ¬ ℓ	1	<11/25	>9	20	24	ℓ ∧ ℓ

(1) Region 8572 is primarily a new region, although it appears in the position of region 8539, which was a declining plage during the previous rotation.
(2) Region 8573 is a return of regions 8545 and 8546.
(3) Region 8579 is a return of part of region 8561.
(4) Regions 8581 and 8585 are a return of parts of region 8554.
(5) Region 8592 is a return of part of region 8563.

Regions 8580 and 8582 have been merged with 8578 and region 8590 has been merged with 8591.

Regions 8570 and 8596 have been omitted from this list because of their ephemeral nature and low intensity.

No calcium plage observations were secured at the McMath-Hulbert observatory on Nov. 2, 3, 5, 7, 8, 9, 10, 11, 17, 23, 24, 27, 28 and 29, 1966. The history of some of the regions contains uncertainties because of missing observations.

NOVEMBER 1966

Nov. 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	1955	N22	W54	(β)1	16160
		N20	W23	(βf)3	16161
		N36	W33	(αp)2	16162
		N12	E60	(αp)2	16163
2	2300	N23	W70	β	16160
		N21	W40	βf	16161
		N37	W49	βp	16162
		N11	E44	αp	16163
3	1610	N23	W79	(αf)1	16160
		N22	W46	(βf)2	16161
		N37	W59	(βp)2	16162
		N12	E35	(αp)2	16163
		N15	E43	(αf)2	16164
		N18	E44	(αf)1	16165
4	1545	N21	W60	(αf)1	16161
		N36	W72	(αp)1	16162
		N13	E26	(βp)1	16163
		S23	W35	(βp)1	16166
5	2010	N13	E07	(βp)2	16163
		N19	E57	(βf)2	16167
		S21	W57	(αp)2	16166
6	No Obs.				
7	No Obs.				
8	No Obs.				
9	1715	N18	E04	(βf)2	16167
		N22	E05	(βp)3	16168
		N13	E49	(αp)5	16169
		N07	E45	(αp)6	16170***
10	2200	N14	W04	(βp)3	16167
		N23	W11	(βp)2	16168
		N14	E31	(αp)5	16169
		N07	E29	(αp)6	16170
11	1605	N18	W26	(αp)1	16172
		N24	W24	(βp)3	16168
		N14	W15	(βp)4	16167
		N15	E21	(βp)5	16169
		N11	E21	(βf)2	16171
		N08	E18	(αp)6	16170
12	2155	N13	W37	(βp)4	16167
		N24	W43	(αp)3	16168
		N15	E05	(βp)5	16169
		N08	E02	(αp)6	16170
		N11	E02	(βf)2	16171*
13	1630	N14	W47	(βp)4	16167
		N25	W55	(αp)3	16168
		N15	W06	(βγ)5	16169
		N09	W07	(βγ)5	16170**
14	No Obs.				
15	2340	N12	W83	αp	16167
		N09	W40	βp	16170
		N15	W36	βp	16169
		N19	E58	βp	16172
16	No Obs.				
17	1710	N09	W62	βp	16170
		N15	W57	αp	16169
		N22	E27	βp	16172
		N31	E33	αp	16173
		N32	E77	αp	16174
18	No Obs.				
19	1900	N14	W88	αp	16169
		N16	E02	(βp)4	16175
		N18	E20	(βp)2	16172
		N30	E55	(βp)5	16174
20	No Obs.				
21	1715	N19	W24	(βp)4	16175
		N23	W04	(βf)6	16172
		N29	E27	(αp)5	16174
		S17	W33	(βp)2	16176
22	No Obs.				
23	No Obs.				
24	2215	N20	W67	β	16175
		N23	W48	βp	16172
		N30	W17	αp	16174
		N17	E76	βf	16177

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

NOVEMBER 1966

Nov. 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
25	1620	N22	W58	(βp)4	16172
		N30	W20	(αf)2	16174
		N23	W08	(β)1	16178
		N17	E63	(βf)4	16177
26	2320	N21	W78	(βp)3	16172
		N29	W43	(αp)3	16174
		N23	W25	(β)1	16178
		N16	E44	(βf)3	16177
27	No Obs.				
28	1800	N29	W65	αp	16174
		N25	W47	β	16178
		N19	E24	βp	16177
29	1640	N26	W60	(β)3	16178
		N17	E08	(βf)2	16177
		N23	E36	(βf)3	16179
		S17	W05	(αp)1	16180
		S28	E22	(αp)1	16181
30	2210	N24	W77	(βf)2	16178
		N17	W07	(βf)2	16177
		N25	E19	(βf)3	16179
		N12	E80	(αf)2	16182

* Polarities reversed from those of previous day.
** No. 16171 becomes part of No. 16170.
*** This appears to be the fourth disk passage of this group.

SOLAR FLARES

PRELIMINARY

NOVEMBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 NOV	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. %	
MANI	01	0218E	0224		N22	W34	.606	8566	29.5	6D	-N	2		0218	.26	.33			
NERA	01	1053E	1118		N20	W15	.364	8567	31.3	25D	2	2							
CATA	01	1120E	1130D	1121	N21	W19	.420	8567	31.0	10D	-N			1121	1.78	1.74		170	
LOCK	01	1630	1648	1636	N36	W33	.692	8560	30.2	18	-F		C	1636	.20	.30		10	
HALE	01	1632E	1645	1638	N38	W31	.693	8560	30.4	13D	-N	3	P	1638	.15	.20			H
HALE	01	1703	1943	1723	N21	W52	.800	8566	28.8	160	-B	1	C	1723	.36	.60			K
HALE	01			1830										1830	.72	1.20			
HALE	01	1708	1727	1713	N04	W28	.468	8567	30.6	19	-N	2	C	1713	.21	.23			G
HALE	01	1741	1812	1745	N37	W33	.700	8560	30.3	31	-N	2	C	1745	.26	.40			H
HALE	01	1935	2008	1949	N37	W34	.708	8560	30.3	33	-F	1	P	1949	.31	.40			
LOCK	01	1940	2000	1945	N36	W33	.692	8560	30.3	20	-N		C	1945	.30	.40		10	H
HALE	01	2008E	2026	2012	N12	E59	.855	8571	6.3	18D	-F	1	P	2012	.15	.30			
HALE	01	2010	2056	2034	N36	W33	.692	8560	30.4	46	-N	1	C	2034	.46	.60			F
HALE	01	2151	2201	2158	N22	W56	.838	8566	28.7	10	-N	1	C	2158	.21	.40			
HALE	01	2206	2223	2216	N35	W35	.701	8560	30.3	17	-N	1	C	2216	.26	.40			
LOCK	01	2211	2225	2216	N36	W33	.692	8560	30.4	14	-N		C	2216	.40	.60		10	L
HALE	02	0002U	0031	0008	N21	W55	.828	8566	28.9	29U	-F	1	P	0008	.31	.60			
MANI	02	0207E	0209D	0208	N21	W59	.862	8566	28.7	2D	-N	2		0208	.21	.38			
HALE	02	0250	0310	0253	N17	W46	.729	8566	29.7	20	-N	1	C	0253	.41	.60			T
HALE	02	0315	0339	0319	N17	W45	.718	8566	29.8	24	-F	1	C	0319	.31	.40			T
MONT	02	0835E	0835D		N38	W38	.747	8560	30.5		-N			0835		.80			
KAND	02	0900E	0913D		N23	W59	.865	8566	28.9	13D	-F		C						
MONT	02	0958E	0958D		N22	W61	.879	8566	28.8		-N			0958		1.20			
CATA	02	0958E	1018D	1000	N22	W60	.872	8566	28.9	20D	-B			1000	.21	.43		200	
MONT	02	1004	1040	1020	N20	E37	.633	8568	5.2	36	1B			1020		1.20			
CATA	02	1018E	1038D	1020	N19	E39	.653	8568	5.4	20D	-N			1020	.25	.32		160	
MONT	02	1014	1020D	1020	N21	W32	.578	8567	31.0	6D	1B			1020		3.30			
CATA	02	1019E	1035D	1020	N23	W28	.543	8567	31.3	16D	-N			1020	.23	.27		180	
HALE	02	1702	1755	1711	N21	W35	.614	8567	31.1	53	-N	1	C	1711	.62	.80			TE
LOCK	02	1707	1755	1723	N22	W35	.619	8567	31.1	48	-N		C	1723	.90	1.20		20	
SACP	02	1708	1810	1724	N21	W34	.602	8567	31.2	62	1N		C		2.02	2.20			
HALE	02	1935	2010	1941	N26	E42	.715	8568	6.0	35	-N	1	C	1941	.83	1.20			TE
LOCK	02	1936	2010	1943	N25	E44	.732	8568	6.1	34	-N		C	1943	.80	1.20		20	
HALE	03	0310	0313D	0313U	N37	W50	.831	8560	30.4	3D	-N	1	C	0313	.52	.90			TE
MANI	03	0631E	0635	0632	N20	W42	.692	8567	31.1	4D	-F	2		0632	.26	.36			
ISTA	03	0655E	0715		N12	E40	.647	8571	6.3	20D	-N								
MANI	03	0658E	0714	0701	N25	E33	.614	8568	5.8	16D	-N	2		0701	.62	.79			
SACP	03	1429	1450	1439	N25	E35	.636	8568	6.2	21	-F		C		1.75	1.96			
LOCK	03	1746	1810	1750	N26	E33	.621	8568	6.2	24	-F		C	1750	.40	.50		10	
LOCK	03	1850	1914	1900	N21	W83	.990	8566	28.6	24	-F		C	1900	.30	1.00		10	H
LOCK	03	1854	1925	1900	N22	W49	.773	8567	31.1	31	-N		C	1900	.80	1.30		20	
SACP	03	1855	1919	1900	N21	W49	.771	8567	31.1	24	-F		C		1.34	1.68			
LOCK	03	2227	2250	2235	N35	W60	.893	8560	30.4	23	-F		C	2235	.40	.80		10	
LOCK	03	2300	2320	2310	N29	E38	.691	8568	6.8	20	-F		C	2310	.50	.70		10	
LOCK	03	2347	0002	2351	N23	W51	.795	8567	31.2	15	-F		C	2351	.50	.90		10	
MANI	04	0850E	0904D		N23	E32	.591	8571	6.8	14D	-F	1		0855	.83	1.03			
MANI	05	0425	0524	0432	N20	E03	.280	8568	5.4	59	1N	2		0432	4.23	4.43			
MONT	05	1147	1218		N20	E65	.908	8572	10.4	31	-B			1150		.60			
MONT	05	1231	1247		N12	E90	1.000	8573	12.3	16	1B								
CAPF	05	1258E	1345		N10	E90	1.000	8573	12.3	47D	□		P						A
LOCK	05	2055	2130	2108	N20	E56	.836	8572	10.1	35	-N		C	2108	.80	1.40		20	
SACP	05	2100	2127	2110	N19	E56	.835	8572	10.1	27	1F		C		2.26	3.16			
LOCK	05	2257	2335	2303	N29	E56	.853	8572	10.2	38	-N		C	2303	.80	1.40		20	
MANI	05	2259	2307	2302	N20	E56	.836	8572	10.2	8	-N	1		2302	.62	1.07			
SACP	05	2259	2339	2309	N19	E55	.826	8572	10.1	40	-F		C		1.33	1.84			
MANI	06	0226E	0230D		N19	E52	.798	8572	10.0	4D	-N	1		0229	1.03	1.66			
MANI	06	0503E	0533		N19	E51	.788	8572	10.0	30D	-N	1		0503	.83	1.33			
CAPS	06	1334E	1356D		N19	E59	.861	8572	11.0	22D	-N	1		1337	1.00				
SACP	06	1336E	1500	1351	N19	E46	.736	8572	10.0	84D	1N		C		1.78	2.17			
ONDR	06	1343E	1402		N18	E46	.733	8572	10.0	19D	1N		V	1347			2.00		CE
CAPS	06	1433E	1448D		N19	E59	.861	8572	11.0	15D	-B	1							
SACP	06	1631	1648	1635	N11	E90	1.000	8573	13.4	17	-N		C		.34				
SACP	06	2127E	2132D	2130	N11	E79	.980	8573	12.8	5D	-N		C		.41	1.04			
MANI	07	0514	0526	0518	N13	E82	.989	8573	13.4	12	-N	2		0518	.41	1.10			
CAPS	07	0739E	0746		N12	E78	.976	8573	13.2	7D	2N	3		0740	2.00			216	C
CATA	07	1100E	1112D	1101	N08	E77	.973	8573	13.2	12D	-N			1101	.21			160	
CAPS	07	1103E	1110D		N13	E78	.976	8573	13.3	7D	1F	2		1105	.70			166	
MONT	07	1103	1115	1105	N13	E78	.976	8573	13.3	12	1B			1115		2.10			
MONT	07	1109E	1130D	1130	N25	E37	.661	8572	10.2	21D	1N			1113		2.10			
SACP	07	1541	1546D	1543U	N13	E73	.954	8573	13.1	5D	-N		C		.84	1.69			
HALE	07	1846E	1915D		N15	E79	.980	8573	13.7	29D	-N	1	P	1855	.31				
ARCE	08	0840E			N12	E66	.912	8573	13.3		1N		C	0840	1.04	2.10			
MONT	08	1155	1230		N15	E65	.906	8573	13.4	35	1B			1157		2.00			

SOLAR FLARES

PRELIMINARY

NOVEMBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966	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. %	
	NOV																		
KAND	08	1200E	1300D		N11	E68	.925	8573	13.6	60D	1N		P						
HALE	09	1832	1840	1835	N16	E44	.707	8573	13.1	8	-N	2	C	1835	.21	.30			F
HALE	09	1921	1932	1925	N17	E45	.721	8573	13.2	11	-N	2	C	1925	.21	.30			H
HALE	09	2240	2345D	2256	N16	W43	.695	8571	6.7	65D	1N	1	P	2256	1.65	2.30			
LOCK	09	2253	2312	2300	N16	W43	.695	8571	6.7	19	-F		C	2300	.60	.80		10	
MEUD	10	1231E	1235	1232	N15	E37	.619	8573	13.3	4D	-N			1232	.41	.50			CD
MEUD	10	1312E	1315		N15	E38	.632	8573	13.4	3D	-N			1312	.26	.30			CD
SACP	10	1406	1420	1412	N11	E30	.510	8573	12.8	14	-F		C		.51	.52			
MEUD	10	1408	1415	1409	N10	E31	.522	8573	12.9	7	-F			1409	.21	.23			D
SACP	10	1414	1426	1420	N17	E37	.626	8573	13.4	12	-F		C		.85	.93			
SACP	10	1440	1453	1443	N17	E36	.613	8573	13.3	13	-F		C		.84	.92			
MEUD	10	1441	1447	1443	N15	E37	.619	8573	13.4	6	-N			1443	.41	.50			
LOCK	10	1700	1725	1708	N17	E36	.613	8573	13.4	25	-F		C	1708	.70	.90		10	
HALE	10	1705	1715	1708	N17	E33	.575	8573	13.2	10	-N	2	C	1708	.31	.40			
SACP	10	1808	1817	1810	N18	W46	.735	8571	7.3	9	-F		C		.59	.71			
LOCK	10	1831	1838D	1834	N14	W02	.186	8572	10.6	7D	-N		C	1834	.90	.90		20	L
HALE	10	1832	1847	1833	N15	W01	.201	8572	10.7	15	-B	2	C	1833	.83	.82			
SACP	10	2122	2139	2124	N16	E31	.544	8573	13.2	17	-F		C		.41	.43			
LOCK	10	2123	2150	2130	N16	E32	.557	8573	13.3	27	-N		C	2130	1.00	1.20		20	HK
SACP	10	2153	2203	2158	N16	E31	.544	8573	13.2	10	-F		C		.50	.52			
SACP	10	2222	2306	2230	N16	E31	.544	8573	13.3	44	-N		C		.99	1.04			
LOCK	10	2225	2250	2232	N16	E32	.557	8573	13.3	25	-B		C	2232	1.50	1.80		30	H
HALE	10	2234E	2239D	2236	N17	E31	.549	8573	13.3	5D	-B	2	P	2236	.31	.40			H
MANI	10	2235E	2241	2236	N16	E32	.557	8573	13.3	6D	-N	2		2236	.41	.50			
LOCK	10	2255	2303	2257	N16	E32	.557	8573	13.4	8	-N		C	2257	.90	1.10		20	H
LOCK	10	2311	2317	2314	N16	E32	.557	8573	13.4	6	-N		C	2314	.80	1.00		20	H
HALE	10	2334	2345	2337	N17	E32	.562	8573	13.4	11	-N	2	C	2337	.31	.40			H
HALE	10	2356	2357D	2357	N17	E32	.562	8573	13.4	1D	-N	2	P	2357	.31	.40			H
IKOM	11	0045	0230D		N14	W07	.220	8572	10.5	105D	-F		V	0045	.41	.42		75	D
IKOM	11	0123E	0140		N15	E29	.513	8573	13.2	17D	-B		V	0123	1.03	1.20		120	E
HALE	11	0123	0158	0125	N18	E26	.491	8573	13.0	35	-N	1	C	0125	.52	.60			TE
MANI	11	0133E	0140D	0135	N19	E31	.561	8573	13.4	7D	-F	2		0135	.52	.83			
HALE	11	0227	0251	0233	N17	E28	.510	8573	13.2	24	-N	1	C	0233	1.03	1.20			TE
MANI	11	0230E	0250D	0240	N18	E31	.555	8573	13.4	20D	-N	2		0240	1.03	1.25			
IKOM	11	0235E	0250D	0240	N15	E30	.527	8573	13.4	15D	1B		V	0240	1.86	2.20	1.18	130	E
HALE	11	0312	0330	0314	N12	E26	.456	8573	13.1	18	-N	1	C	0314	.31	.40			TE
HALE	11	0312	0339D	0327	N16	E25	.464	8573	13.0	27D	-N	1	P	0327	.52	.60			TE
MANI	11	0434	0444	0437	N14	W06	.211	8572	10.7	10	-B	3		0437	.21	.21			
MANI	11	0658	0710	0703	N14	W07	.220	8572	10.8	12	-B	2		0703	.31	.32			
MANI	11	0733	0751	0738	N16	E26	.478	8573	13.3	18	-F	2		0738	.88	1.00			
MANI	11	0753	0804	0755	N16	E26	.478	8573	13.3	11	-F	2		0755	.72	.86			
MANI	11	0812	0822D	0816	N13	E40	.652	8573	14.3	10D	1N	2		0816	1.65	2.19			
MEUD	11	1034	1041		N15	W10	.263	8572	10.7	7	-N								E
SACP	11	1426	1439	1430	N31	E28	.619	8573	13.7	13	-F		C		.75	.82			
SACP	11	1759	1813	1803	N18	E21	.427	8573	13.3	14	-F		C		1.66	1.67			
LOCK	11	1802	1815	1805	N18	E21	.427	8573	13.3	13	-N		C	1805	.50	.60		10	
HALE	11	1802	1832	1805	N17	E19	.393	8573	13.2	30	-N	1	C	1805	.41	.43			TE
LOCK	11	1810	1833	1816	N15	W18	.362	8572	10.4	23	-F		C	1816	.40	.40		10	
LOCK	11	2148	2210	2151	N16	E18	.371	8573	13.3	22	-F		C	2151	.90	1.00		20	
HALE	11	2149	2224	2151	N16	E16	.345	8573	13.1	35	-N	1	C	2151	1.03	1.10			TE
SACP	11	2249D	2302	2251	N25	W29	.578	8572	9.8	13D	-F		C		1.34	1.43			
HALE	11	2357	2359D	2359U	N23	E32	.597	8573	14.4	2D	-N	1	P	2359	.21	.30			T
IKOM	12	0020	0105D		N11	E13	.260	8573	13.0	45D	-N		V	0025	1.65	1.70		80	BE
IKOM	12	0603E	0608D	0605	N11	E10	.218	8573	13.0	5D	-N		V	0605	1.86	1.90		100	D
MANI	12	0736	0746	0739	N18	E11	.314	8573	13.1	10	-N	2		0739	.31	.33			
MANI	12	0807	0821	0811	N12	E10	.229	8573	13.1	14	-N	2		0811	.36	.37			
ARCE	12	0811E	0814D		N12	E09	.217	8573	13.0	3D	-N		C	0811	.95	1.00			
MEUD	12	1021	1025	1021	N09	E04	.122	8573	12.7	4	-N			1021	.21	.21			E
ARCE	12	1410E	1418D	1411	N14	W22	.411	8572	10.9	8D	-N		C	1411	.57	.60			H
SACP	12	1443	1511	1449	N14	E05	.205	8573	13.0	28	-F		C		.75	.73			
SACP	12	1509D	1514	1510	N11	E03	.145	8573	12.9	5D	-F		C		.83	.81			
SACP	12	1726	1749	1730	N12	E09	.217	8573	13.4	23	-F		C		1.33	1.30			
HALE	12	1728	1803	1732	N13	E08	.218	8573	13.3	35	-N	3	C	1732	.41	.43			E
SACP	12	1841	1851	1845	N07	E01	.068	8573	12.9	10	-N		C		1.41	1.39			
LOCK	12	1842	1852	1845	N20	W06	.305	8573	12.3	10	-N		C	1845	.60	.60		20	
MCMA	12	1843	1848D	1845	N08	W01	.085	8573	12.7	5D	-N		C	1845	.31	.32			E
HALE	12	1843	1849	1845	N07	W00	.066	8573	12.8	6	-B	3	C	1845	.31	.31			E
LOCK	12	1902	1937	1910	N16	E10	.278	8573	13.5	35	-F		C	1910	.50	.50		10	
MCMA	12	1903E	1923D		N16	E08	.259	8573	13.4	20D	-N		C	1908	.41	.42			E
SACP	12	1903	2005	1920	N16	E08	.259	8573	13.4	62	-N		C		1.51	1.47			
HALE	12	1906	1948	1909	N16	E05	.237	8573	13.2	42	-N	3	C	1909	.31	.32			Z
HALE	12	1938	1950	1940	S26	E79	.989		18.7	12	-N	3	C	1940	.10				C
SACP	12	1945	2014	1950	N09	E05	.133	8573	13.2	29	-F		C		1.00	.98			
SACP	12	2149	2205	2152	N09	E04	.122	8573	13.2	16	-F		C		1.25	1.23			
LOCK	12	2210	2240	2217	N19	E05	.284	8573	13.3	30	1N		C	2217	2.00	2.00		20	
SACP	12	2212	2240	2217	N19	E04	.280	8573	13.2	28	1N		C		2.93	2.88			

SOLAR FLARES

PRELIMINARY

NOVEMBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 NOV	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	12	2222E	2238D	2222U	N19	E03	.276	8573	13.2	16D	-B	?	P	2222	.62	.62			F
SACP	12	2240	2252	2246	N15	W31	.541	8572	10.6	12	-F		C		.84	.87			
SACP	12	2320	2331	2324	N13	W36	.600	8572	10.3	11	-F		C		.75	.82			
HALE	13	0106	0225U	0142	N13	W02	.175	8573	12.9	79U	-B	1	P	0142	1.55	1.60			EK
HALE	13	0239	0255U	0241	N23	W40	.688	8572	10.1	16U	-B	?	C	0241	.83	1.10			E
HALE	13	0310	0322	0313	N10	E02	.125	8573	13.3	12	-F	3	C	0313	.62	.62			E
MONT	13	1150	1220		N21	E08	.334	8573	14.1	30	-F					1.10			
SACP	13	1343	1401	1347	N09	W04	.124	8573	13.3	18	-F		C		1.84	1.80			
MCMA	13	1353E	1403		N09	W03	.115	8573	13.4	10D	-N		C	1353	.26	.30			D
SACP	13	1424	1433	1429	N08	W10	.192	8573	12.8	9	-F		C		.75	.73			
LOCK	13	1618	1625	1621	N31	E32	.657	8573	16.1	7	-F		C	1621	.30	.40		10	
HALE	13	1735	1739	1736	N15	W05	.223	8573	13.4	4	-N	2	C	1736	.15	.20			
SACP	13	1857	1905	1900	N14	W08	.233	8573	13.2	8	-F		C		1.32	1.29			
LOCK	13	1857	1909	1859	N14	W09	.243	8573	13.1	12	-N		C	1859	.70	.70		20	
HALE	13	1858	1903	1900	N15	W08	.247	8573	13.2	5	-N	?	C	1900	.72	.73			E
LOCK	13	1908	1922	1911	N10	W08	.183	8573	13.2	14	-N		C	1911	.50	.50		10	
HALE	13	1909	1929	1911	N11	W05	.162	8573	13.4	20	-N	2	C	1911	.21	.22			
HALE	13	2054	2116	2059	N23	W50	.791	8572	10.1	22	-B	1	C	2059	.46	.80			E
LOCK	13	2055	2100D	2100	N19	W50	.781	8572	10.1	5D	-F		C	2100	.50	.80		10	
LOCK	13	2106	2127	2109	N09	W12	.230	8573	13.0	21	-N		C	2109	.80	.80		20	
HALE	13	2107	2140U	2109	N10	W13	.253	8573	12.9	33U	-B	2	P	2109	.52	.53			
HALE	13	2138	2145	2140	N25	E69	.938	8575	19.1	7	-F	2	C	2140	.41				
HALE	14	0037	0050	0037	N23	W52	.810	8572	10.1	13	-N	2	C	0037	.41	.70			E
HALE	14	0047	0055	0049	N24	E66	.920	8575	19.0	8	-F	?	C	0049	.21				
MANI	14	0600	0615	0604	N18	W11	.317	8573	13.4	15	-F	2		0604	.67	.70			
CAPS	14	0951E	0956		N16	W14	.325	8573	13.4	5D	-F	1							
ONDR	14	1224E	1335		N20	E78	.977	8578	20.4	71D	1N		V	1228			3.30		ADEG
CAPS	14	1225E	1317D		N25	E72	.953	8578	19.9	52D	2N	1		1228	3.00				
WEND	14	1238E	1352		N18	E74	.961	8578	20.1	74D	1N				5.16				
CAPF	14	1243E	1330D		N20	E75	.965	8578	20.2	47D	3N		P	1246	5.88				
MCMA	14	1312E	1350		N22	E76	.970	8578	20.3	38D	1B		P	1319	.72	2.00			BE
SACP	14	2036U	2210U	2054	N21	W12	.366	8573	14.0	94U	1N		C		4.17	4.15			
HALE	15	0023	0055	0029	N10	W29	.495	8273	12.8	32	-B	?	C	0029	1.44	1.70			F
MANI	15	0028E	0050		N10	W29	.495	8573	12.8	22D	-N	1		0030	1.13	1.31			
MANI	15	0050E	0108		N20	E71	.947	8578	20.4	18D	-N	1		0051	.77	1.68			
HALE	15	0208	0218	0212	N08	W31	.519	8573	12.8	10	-N	2	C	0212	.21	.23			
SACP	15	1703	1723	1710	N23	W75	.966	8572	10.1	20	-F		C		.84	1.86			
HALE	15	1705	1718	1708	N24	W76	.971	8572	10.0	13	-N	?	C	1708	.15				
MCMA	15	1707	1719D		N23	W80	.984	8572	9.7	12D	-N		C	1712	.41				E
LOCK	15	1826	1850	1831	N11	W37	.610	8573	13.0	24	-N		C	1831	.50	.70		20	
HALE	15	1829	1846D	1830	N14	W45	.717	8573	12.4	17D	-N	3	P	1830	.10	.13			
MCMA	15	1829	1913	1837	N11	W38	.623	8573	12.9	44	-F		C	1837	.41	.60			E
LOCK	15	1851	1900	1853	N18	W30	.546	8573	13.5	9	-F		C	1853	.30	.40		10	
LOCK	15	1902	1915	1906	N10	W39	.634	8573	12.9	13	-F		C	1906	.70	.90		10	
HALE	15	1910	1928	1912	N16	W30	.534	8573	13.5	18	-N	3	C	1912	.31	.40			E
LOCK	15	1910	1950	1917	N20	W21	.449	8573	14.2	40	-F		C	1917	.50	.60		10	
HALE	15	1911	1935	1915	N19	W21	.440	8573	14.2	24	-N	2	C	1915	.21	.23			
LOCK	15	1912	1925	1916	N18	W30	.546	8573	13.6	13	-N		C	1916	.50	.60		20	
MCMA	15	1918E	1920D		N10	W40	.647	8573	12.8	2D	-F		P	1919	.83	1.10			E
HALE	15	1925	1958	1934	N11	W38	.623	8573	13.0	33	-N	?	C	1934	1.13	1.40			F
SACP	15	1926	1937D	1932	N10	W38	.621	8573	13.0	11D	1F		C		2.09	2.30			
LOCK	15	1927	2015	1935	N11	W39	.636	8573	12.9	48	-N		C	1935	1.40	1.80		20	
LOCK	15	2053	2102	2057	N06	W35	.574	8573	13.2	9	-F		C	2057	.60	.70		10	
LOCK	15	2112	2127	2115	N06	W35	.574	8573	13.3	15	-N		C	2115	.70	.80		20	
LOCK	15	2125	2155	2131	N13	W31	.534	8573	13.6	30	-F		C	2131	.80	1.00		10	
MANI	16	0021	0038	0025	N27	E90	1.000	8584	22.8	17	-N	2		0025	.26	.80			
SACP	16	1412	1430	1417	N20	W51	.795	8573	12.8	18	-F		C		.85	1.09			
SACP	16	1715	1726	1718	N06	W46	.719	8573	13.3	11	-F		C		1.25	1.49			
SACP	16	1753	1806	1754	N20	W54	.823	8573	12.7	13	-N		C		1.18	1.60			
SACP	16	2201	2231	2210	N32	E90	1.000	8584	23.7	30	1N		C		.74				
HALE	16	2239	2244	2240	N08	W49	.755	8573	13.3	5	-F	1	C	2240	.21	.30			
MANI	17	0146E	0206		N21	W50	.788	8573	13.3	20D	1N	1		0148	1.34	2.13			
KAND	17	0714	0716		N26	E90	1.000	8584	24.1	2	□		V						
ISTA	17	0730E	0740D		N16	W54	.817	8573	13.3	10D	-F								
KAND	17	0920E	0950D		N26	E90	1.000	8584	24.1	30D	□		P						
HALE	17	1649E	1701	1652	N07	W61	.874	8573	13.1	12D	-N	2	P	1652	.21	.40			JK
HALE	17			1659										1659	.15	.30			
HALE	17	1656	1757	1658	N15	W68	.928	8573	12.6	61	-N	2	C	1658	.15				K
HALE	17			1700										1700	.26				
HALE	17			1705										1705	.21				
HALE	17	1735	1805	1747	N32	E82	.990	8584	23.9	30	-N	2	C	1747	.21				
HALE	17	1755	1809	1802	N28	E78	.979	8584	23.6	14	-N	?	C	1802	.26				F
SACP	17	1800	1808	1803	N28	E77	.975	8584	23.5	8	-F		C		.50	1.18			
HALE	17	1742	1801	1750	N20	E30	.560	8578	20.0	19	-F	2	C	1750	.21	.30			
HALE	17	1759	1819	1804	N22	E32	.596	8578	20.1	20	-F	2	C	1804	.21	.30			

SOLAR FLARES

PRELIMINARY

NOVEMBER 1966

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 NOV																		
HALE	17	1953	2024	2013	N31	E70	.949	8584	23.1	31	-N	1	C	2013	.21				
HALE	17	1957	2027	2008	N31	E35	.689	8578	20.5	30	-N	2	C	2008	.36	.50			
SACP	17	2003	2012	2007	N31	E35	.689	8578	20.5	9	-F		C		.51	.58			
HALE	17	2033	2040	2037	N17	E24	.463	8578	19.7	7	-N	1	C	2037	.36	.40			
SACP	17	2035	2038	2037	N18	E26	.496	8578	19.8	3	-N		C		.33	.34			
HALE	17	2112	2132	2115	N15	W63	.893	8573	13.2	20	-F	1	C	2115	.31	.70			
HALE	17	2040	2135	2103	N32	E68	.940	8584	23.0	55	-N	1	C	2103	.31				
LOCK	17	2110	2155	2130	N33	E70	.950	8584	23.1	45	-F		C	2130	.50	1.30		10	
HALE	17	2123	2137	2131	N32	E78	.980	8584	23.7	14	-N	1	C	2131	.26				
LOCK	17	2124	2135	2130	N30	E77	.976	8584	23.7	11	-F		C	2130	.40	1.20		10	
SACP	17	2126	2135	2130	N31	E77	.976	8584	23.7	9	-N		C		.33	.80			
HALE	17	2153	2200	2157	N17	E24	.463	8578	19.7	7	-N	2	C	2157	.31	.40			
LOCK	17	2305	2338	2330	N33	E69	.946	8584	23.1	33	-F		C	2330	.50	1.20		10	
LOCK	17	2327	2350	2331	N08	W60	.865	8573	13.5	23	-N		C	2331	.90	1.80		20	
LOCK	17	2342	2400D	2350	N32	E69	.945	8584	23.2	18D	2N		C	2350	2.20	5.30		20	
IKOM	18	0445	0450D		N14	W65	.907	8573	13.3	5D	1F		V	0448	.93	2.30			E
IKOM	18	0515E	0528D		N10	W65	.906	8573	13.3	13D	1B		V	0520	1.03	2.60	1.96	120	D
MANI	18	0518E	0531D		N11	W65	.906	8573	13.3	13D	-N	1		0519	.26	.51			
LOCK	18	1845	1930	1905	N05	W74	.961	8573	13.2	45	-F		C	1905	.40	1.20		10	
LOCK	18	2049	2100	2052	N09	W83	.992	8573	12.6	11	-F		C	2052	.30	1.00		10	
HALE	18	2051	2113	2055	N11	W82	.989	8573	12.7	22	-N	1	C	2055	.31				T
LOCK	18	2125	2138	2130	N13	W72	.951	8573	13.5	13	-F		C	2130	.30	.80		10	
SACP	18	2158	2215	2202	N14	W76	.969	8573	13.2	17	-N		C		.25	.57			
LOCK	18	2257	2315	2302	N13	W75	.965	8573	13.3	18	-N		C	2302	.50	1.50		20	
ISTA	19	0725E	0740		N15	W80	.984	8573	13.3	15D	-F								
ISTA	19	0725E	0740		N10	W76	.969	8573	13.6	15D	-F								
MANI	19	0817	0824D	0820	N13	W84	.994	8573	13.0	7D	-N	1		0820	.21	.58			
KAND	19	0820	0829		N16	W83	.992	8573	13.1	9	B		P						
MANI	19	0820	0824D	0823	N28	E51	.818	8584	23.2	4D	1F	1		0823	1.55	2.64			
KAND	19	0820	0830		N23	E56	.848	8584	23.5	10	1N		C	0824		2.46			
CAPS	19	1227E	1234		N09	W80	.984	8573	13.5	7D	-B	3		1230	.40			210	C
HALE	19	1653	1744	1721	N16	W89	1.000	8573	13.0	51	□N	1	C	1721	.31				T
LOCK	19	1659	1708	1703	N24	W73	.959	8573	14.2	9	-F		C	1703	.30	.90		10	
HALE	19	1701	1707	1703	N25	W78	.979	8573	13.9	6	-N	1	C	1703	.21				
LOCK	19	1728	1746	1737	N14	W90	1.000	8573	13.0	18	1N		C	1737	.50	2.00		20	
LOCK	19	1828	1854	1838	N14	W85	.996	8573	13.4	26	-F		C	1838	.40	1.40		10	
HALE	19	1829	1843	1831	N16	W89	1.000	8573	13.1	14	□N	1	C	1831	.15				T
MCMA	19	1856	1948D		N22	E21	.474	8589	21.4	52D	-N		P	1914	.52	.60			E
LOCK	19	1900	1918	1904	N13	W85	.996	8573	13.4	18	-F		C	1904	.30	1.00		10	
LOCK	19	2055	2115	2101	N24	E37	.666	8584	22.6	20	-F		C	2101	.60	.80		10	
SACP	19	2200U	2345	2216	N34	E57	.880	8584	24.2	105U	-N		C		.41	.64			
LOCK	19	2227	2240	2231	N11	W90	1.000	8573	13.2	13	-N		C	2231	.30	1.20		10	J
LOCK	19	2237	2245	2242	N13	W90	1.000	8573	13.2	8	-F		C	2242	.30	1.20		10	
LOCK	19	2245	2253D	2253	N10	W90	1.000	8573	13.2	8D	-F		C	2253	.30	1.20		10	J
HALE	20	0025	0100D	0041	N11	W90	1.000	8573	13.3	35D	□N	2	P	0041	.36				
HALE	20	0027	0100D	0046	N24	E18	.467	8589	21.4	33D	-N	2	P	0046	.21	.23			
HALE	20	0112E	0123D		N23	E15	.428	8589	21.2	11D	-N	2	P	0117	.21	.23			
HALE	20	0134E	0140	0135	N28	E46	.775	8584	23.5	6D	-F	3	P	0135	.15	.20			
HALE	20	0249E	0255	0253U	N26	W82	.990	8573	14.0	6D	-N	3	P	0253	.15				
HALE	20	0308	0310D		N23	E15	.428	8589	21.3	2D	-N	3	P	0310	.21	.23			
KAND	20	0915E	0930		S17	W13	.393	8588	19.4	15D	-F		P						
KAND	20	0915E	1000		N23	E13	.411	8589	21.4	45D	-N		P	0921		1.20			
SACP	20	1748	1802	1755	N27	E35	.664	8584	23.4	14	-F		C		.50	.56			
HALE	20	2004	2010	2004	N22	E05	.347	8589	21.2	6	-N	1	C	2004	.15	.20			
HALE	20	2025	2047	2033	N27	E33	.644	8584	23.3	22	-N	2	C	2033	.52	.70			H
SACP	20	2031E	2043E	2033	N26	E35	.658	8584	23.5	12D	-N		C		1.24	1.40			
SACP	20	2313	2320	2314	N26	E34	.648	8584	23.5	7	-F		C		.17	.18			
SACP	20	2341	2346D	2342	N26	E33	.637	8584	23.5	5D	-F		C		.18	.19			
HALE	21	0153	0158	0155	N22	E02	.341	8589	21.2	5	-N	1	C	0155	.31	.32			
HALE	21	0242	0257	0244	N23	E02	.357	8589	21.3	15	-N	1	C	0244	.21	.22			
ARCE	21	0920E	0945D		N22	W02	.341	8589	21.2	25D	-N		C	0920	1.06	1.10			
ARCE	21	1010E			N31	E37	.711	8584	24.2		-F		P	1010	.96	1.40			H
MCMA	21	1328	1400		N13	E75	.965	8590	27.2	32	-N		C	1332	.31	1.20			D
ONDR	21	1330E	1349		N15	E75	.966	8590	27.2	19D	-F		V	1332			1.40		D
MCMA	21	1448	1457	1453	N23	W02	.357	8589	21.5	9	-N		C	1453	.31	.32			D
MCMA	21	1541	1552	1543	N22	W04	.346	8589	21.4	11	-N		C	1543	.26	.30			D
HALE	21	1717	1740	1718	N22	W06	.353	8589	21.3	23	-N	2	C	1718	.21	.22			
HALE	21	1817U	1830	1821	N21	W07	.343	8589	21.2	13U	-N	1	P	1821	.36	.40			
HALE	21	1932	2022U	1935	N22	W07	.358	8589	21.3	50U	-N	1	P	1935	.72	.80			
LOCK	21	1945	2015	1957	N23	W05	.365	8589	21.4	30	-N		C	1957	.70	.80		20	J
LOCK	21	2110	2120	2113	N21	W05	.333	8589	21.5	10	-F		C	2113	.30	.30		10	J
LOCK	21	2254	2310	2259	N23	W07	.373	8589	21.4	16	-N		C	2259	.80	.90		20	
HALE	21	2255	2301D	2256	N23	W07	.373	8589	21.4	6D	-N	1	P	2256	.21	.22			
IKOM	22	0017	0050D		N22	W09	.371	8589	21.3	33D	-N		V	0020	.72	.80		100	E
MANI	22	0245	0251D		N21	W09	.357	8589	21.4	6D	-F	2		0246	.41	.44			

SOLAR FLARES

PRELIMINARY

NOVEMBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 NOV	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. %	
WEND	22	0914	0936		N28	E22	.551	8584	24.0	22	1F				5.16				
WEND	22	0914	0938		N31	E17	.547	8584	23.7	24	1F				4.13				
CATA	22	0920E	1000D	0923	N31	E19	.560	8584	23.8	40D	-B			0923	.78	.93		220	
KAND	22	0945E	1001D		N31	E24	.599	8584	24.2	16D	-N		C						
CATA	22	1128E	1156D	1130	N22	W15	.418	8589	21.4	28D	-B			1130	.76	.83		230	
KAND	22	1130E	1240		N22	W11	.385	8589	21.7	70D	1B		C	1130		4.98			
MCMA	22	1835E	1843	1837	N22	W20	.468	8589	21.3	8D	-N		C	1837	.41	.43			E
MCMA	22	1835E	1935D	1848	N30	E18	.541	8584	24.1	60D	1B		C	1848	2.58	3.00			F
SACP	22	1857E	1907D	1900U	N30	E16	.527	8584	24.0	10D	1N		C		2.90	3.02			
LOCK	22	1908E	2000	1915	N30	E19	.549	8584	24.2	52D	1B		C	1915	2.00	2.40		30	
LOCK	22	1944	2010	1950	N21	W21	.468	8589	21.2	26	-N		C	1950	.50	.60		10	
LOCK	22	2045	2052	2048	N21	W21	.468	8589	21.3	7	-F		C	2048	.30	.30		10	
LOCK	22	2254	2300E	2257	N24	W21	.499	8589	21.4	6D	-F		C	2257	.50	.60		10	
IKOM	23	0532E	0542D		N32	E10	.523	8584	24.0	10D	-N		V	0534	.62	.70	1.31	95	D
IKOM	23	0555E	0610		N32	E10	.523	8584	24.0	15D	-F		V	0555	.52	.60			D
LOCK	23	1638	1700	1642	N18	W32	.577	8589	21.3	22	-N		C	1642	.60	.70		20	
LOCK	23	1853	1912	1857	N23	W28	.565	8589	21.7	19	-F		C	1857	.30	.40		10	
LOCK	23	2028	2037	2031	S19	W60	.887	8589	19.4	9	-F		C	2031	.80	1.60		10	
LOCK	23	2104	2130	2112	N17	W36	.622	8589	21.2	26	-N		C	2112	.70	.90		20	
LOCK	23	2234	2248	2238	N25	W35	.654	8589	21.3	14	-N		C	2238	.60	.80		20	
LOCK	23	2251	2307	2254	N25	W35	.654	8589	21.3	16	-N		C	2254	.60	.80		10	
CAPS	24	0945E	0948		N21	W39	.677	8589	21.5	3D	-F	?		0946	.40	.50		157	E
HALE	24	1845	1902D	1857	N25	E34	.645	8591	27.3	17D	-N	1	P	1857	.52	.70			
HALE	24	1947	1958	1949	N19	W52	.806	8589	20.9	11	-B	1	C	1949	.26	.40			H
HALE	24	2036	2054	2037	N19	W48	.766	8589	21.3	18	-N	1	C	2037	.21	.30			
HALE	24	2128	2146	2128U	N18	W68	.931	8578	19.8	18	-N	1	P	2131	.15				
HALE	24	2212	2222	2216	N19	W70	.943	8578	19.7	10	-B	1	C	2216	.21				
MANI	25	0716	0739	0722	N28	W18	.522	8584	24.0	23	-F	?		0722	1.34	1.57			
MONT	25	0744E	0900		N30	W17	.539	8584	24.0	76D	1N					3.10			
MONT	25	0801	0815		N17	W64	.904	8578	20.5	14	-B			0803		.90			
ARCE	25	0940E	1000D		N21	W54	.829	8589	21.4	20D	-N		C	0955	.25	.40			
MONT	25	1218	1235D		N18	W67	.925	8578	20.5	17D	-B			1220		1.00			
HALE	25	1735E	1801	1748	N18	W63	.898	8589	21.0	26D	-N	1	P	1748	.26	.60			
LOCK	25	1742	1758	1747	N18	W63	.898	8589	21.0	16	-N		C	1747	.60	1.30		20	
LOCK	25	2004	2015	2009	N16	W66	.917	8589	20.9	11	-F		C	2009	.20	.40		10	
LOCK	25	2011	2020	2014	N21	W71	.949	8589	20.5	9	-F		C	2014	.30	.80		10	
LOCK	25	2115	2129	2124	N21	W71	.949	8589	20.6	14	-F		C	2124	.40	1.10		10	
HALE	25	2120	2129	2125	N21	W78	.979	8578	20.0	9	-N	1	C	2125	.21				
HALE	25	2210	2226	2219	N22	W60	.880	8589	21.4	16	-N	1	C	2219	.31	.70			F
LOCK	25	2212	2230	2218	N13	W61	.878	8589	21.3	18	1N		C	2218	1.10	2.20		20	
LOCK	25	2223	2237	2226	N24	E76	.973	8594	1.6	14	-N		C	2236	.40	1.20		20	
HALE	25	2225	2236	2227	N21	W78	.979	8578	20.1	11	-N	1	C	2227	.21				
HALE	26	0123	0127	0124	N23	W78	.979	8589	20.2	4	-N	1	C	0124	.21				
HALE	26	0131	0137	0132	N23	W78	.979	8589	20.2	6	-B	1	C	0132	.26				
HALE	26	0224	0231	0226	N21	W69	.939	8589	20.9	7	-F	1	C	0226	.26				
MANI	26	0511	0524	0514	N22	W62	.895	8589	21.6	13	-F	1		0514	.62	1.20			
MONT	26	0745E	0815		N22	W90	1.000	8578	19.6	30D	-N								
ARCE	26	0848E	0900D	0850	N31	W30	.655	8584	24.1	12D	-N		C	0850	.56	.70			H
ARCE	26	0913	1000D	0928	N18	W70	.943	8589	21.1	47D	1B		C	0928	1.02	3.00			
ARCE	26	0927	0955	0935	N21	W65	.915	8589	21.5	28	-N		C	0935	.62	1.30			
MONT	26	0933	1115	0936	N20	W69	.938	8589	21.2	102	1B			0936		2.50			
CATA	26	0936E	1030D	0955	N21	W65	.915	8589	21.5	54D	1B			0955	1.53			200	
ONDR	26	0942E	1010		N20	W69	.938	8589	21.2	28D	1N		V	0953			2.10		CHJ
MONT	26	1229	1300	1231	N17	W80	.985	8589	20.5	31	1N			1231		2.60			
MONT	26	1310	1400	1315	N21	W70	.944	8589	21.3	50	1N			1315		3.40			
SACP	26	1530	1555	1543	N34	W38	.744	8584	23.8	25	-N		C		1.08	1.33			
LOCK	26	1600	1615	1607	N20	W81	.988	8589	20.6	15	-F		C	1607	.40	1.40		10	
LOCK	26	1727	1750	1734	N35	W41	.774	8584	23.7	23	-F		C	1734	.70	1.10		10	
HALE	26	1931	1953	1933	N25	W20	.506	8586	25.3	22	-N	1	C	1933	.31	.40			
HALE	26	2124	2136	2127	N24	W23	.524	8586	25.2	12	-N	1	C	2127	.31	.40			
LOCK	26	2314	2335	2320	N15	E44	.713	8593	30.3	21	-N		C	2320	.60	.80		20	
HALE	26	2316	2346	2317	N16	E42	.692	8593	30.1	30	-N	1	C	2317	.41	.60			
LOCK	26	2323	2345	2333	N24	W24	.534	8586	25.2	22	-F		C	2333	.50	.60		10	J
HALE	27	0302	0313	0307	N29	W40	.732	8584	24.1	11	-F	1	C	0307	.31	.50			
IKOM	27	0503	0513D		N20	W90	1.000	8589	20.5	10D	-F		V						D
ARCE	27	0820E	0845D		N25	W32	.627	8586	24.9	25D	-N		C	0835	.68	.90			
ARCE	27	0820E	1000D		N23	W90	1.000	8589	20.6	100D	-N		C	0830	.25	1.40			
ARCE	27	0830E	0845D		N21	W90	1.000	8589	20.6	15D	-N		C	0835	.14	.80			
ARCE	27	0905E	0930D		N21	W90	1.000	8589	20.6	25D	-N		C	0930	.12	.70			
ARCE	27	0935E	1000D		N25	W32	.627	8586	25.0	25D	-N		C	0955	.62	.80			H
MONT	27	1055	1200D		N25	W30	.607	8586	25.2	65D	1N			1100		3.30			
LOCK	27	1707	1730	1715	N26	W33	.645	8586	25.2	23	-F		C	1715	.50	.70		10	
HALE	27	1820	1900	1830	N26	W34	.655	8586	25.2	40	-N	1	C	1830	.72	.90			TE
HALE	27	2002	2015	2003	N27	W35	.672	8586	25.2	13	-N	1	C	2003	.31	.40			T
SACP	27	2316	2335	2321	N27	W38	.701	8586	25.1	19	-N		C		1.27	1.48			

SOLAR FLARES

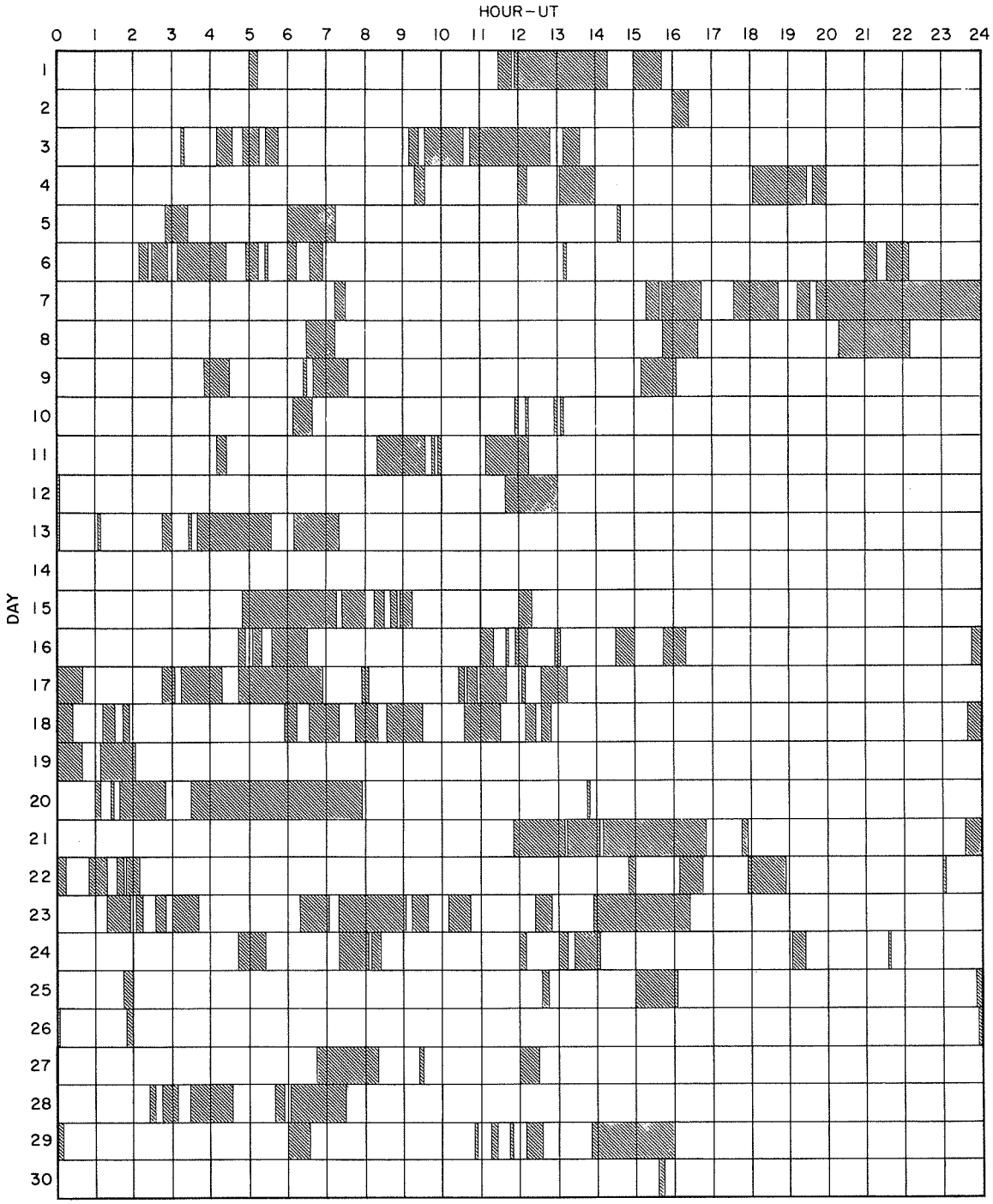
PRELIMINARY

NOVEMBER 1966

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 NOV																		
HALE	27	2320	2342	2322	N28	W37	.698	8586	25.2	22	-N	1	C	2321	.41	.60			T
IKOM	27	2355E	0015		N20	W90	1.000	8589	21.2	20D	-F		V						D
IKOM	28	0035E	0051D		N20	W90	1.000	8589	21.3	16D	-N		V	0040				95	D
HALE	28	0104	0114	0107	N26	W40	.716	8586	25.0	10	-B	1	C	0107	.31	.40			
IKOM	28	0156E	0218D	0200	N15	E27	.500	8593	30.1	22D	1N		V	0200	1.75	2.10		100	E
HALE	28	0209E	0216D	0210U	N14	E27	.493	8593	30.1	7D	-B	1	P	0210	1.03	1.20			
HALE	28	0242	0246D	0245	N26	W40	.716	8586	25.1	4D	-N	1	P	0245	.31	.40			
CAPS	28	0823E	0854		N26	W40	.716	8586	25.3	31D	-B	3		0835	2.10	2.90		208	C
CATA	28	0828E	0850D	0833	N25	W41	.721	8586	25.3	22D	-B			0833	1.09	1.63		240	
CAPF	28	0830E	0910		N26	W40	.716	8586	25.4	40D	2N		P	0830	4.70	6.61			
ARCE	28	0838E	0858D		N28	W42	.745	8586	25.2	20D	1B		C	0842	3.01	4.50			F
CAPF	28	0832E	0910		N21	W90	1.000	8589	21.6	38D	□		P						A
MONT	28	1112E	1200		N34	W61	.910	8584	23.9	48D	-N			1112		1.20			
HALE	28	1720	1750	1727	N18	E19	.423	8593	30.1	30	-N	1	C	1727	.41	.50			
HALE	28	2140	2155	2144	N33	W61	.908	8584	24.3	15	-N	1	C	2144	.26				
HALE	28	2200	2215	2201	N24	W50	.803	8586	25.2	15	-B	1	C	2201	.52	.90			
HALE	29	0122	0140	0125	S26	E29	.629	8597	1.2	18	-N	2	C	0125	.41	.50			
MANI	29	0124	0133D	0128	S26	E02	.458	8592	29.2	9D	-N	2		0128	.21	.26			
HALE	29	0226	0236	0227	S25	E30	.631	8597	1.4	10	-F	2	C	0227	.26	.30			E
CATA	29	0900E	0935D	0910	N17	E13	.348	8593	30.4	35D	-B			0910	.85	.91		210	
ISTA	29	0902	0935		N18	E14	.370	8593	30.4	33	-F								
LOCK	29	1712	1742	1716	S26	E22	.566	8597	1.4	30	-N		C	1716	.60	.70		20	
HALE	29	1713	1747	1717	S26	E21	.558	8597	1.3	34	-B	2	C	1717	.46	.60			
SACP	29	1714	1732	1720	S27	E22	.577	8597	1.4	18	-N		C		1.17	1.24			
LOCK	29	1742	1815	1750	N17	E10	.320	8593	30.5	33	-N		C	1750	.90	1.00		20	
HALE	29	1744	1812	1747	N18	E06	.306	8593	30.2	28	-N	2	C	1747	.72	.80			U
LOCK	29	2008	2036	2013	N33	W77	.980	8584	24.1	28	1N		C	2013	1.00	3.10		20	H
HALE	29	2012	2040	2014	N33	W77	.980	8584	24.1	28	1B	2	C	2014	.72				
MANI	30	0007E	0018	0010	N18	W01	.292	8593	29.9	11D	-F	2		0010	.52	.54			
MANI	30	0446	0524	0501	N24	W67	.931	8586	25.2	38	-N	2		0501	.36	.76			
MANI	30	0628	0641	0632	N17	W01	.275	8593	30.2	13	-F	2		0632	.26	.27			
LOCK	30	1627	1730	1633	N15	W06	.262	8593	30.2	63	1B		C	1633	4.00	4.00		40	
SACP	30	1628	1715	1634	N16	W05	.271	8593	30.3	47	1N		C		3.21	3.15			
HALE	30	1755E	1830	1801U	N17	W05	.287	8593	30.4	35D	-N	1	P	1801	.52	.53			

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

NOVEMBER 1966



Observatories included:

Arcetri	Haleakala	Kandilli	Manila	Sacramento Peak
Capri-G (German)	Herstmonceux	Kodaikanal	Meudon	Tortosa
Capri-S (Swedish)	Ikomasan	Lockheed	Monte Mario	Wendelstein
Catania	Istanboul	Locarno	Ondrejov	Zürich

SOLAR FLARES

AUGUST 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 AUG	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. %	
CULG	01	0302	0317	0309	N34	E37	.699	8415	3.9	15	-N		C	0309	.31	.47			CG
ARCE	01	0830	0910		N25	E10	.366	8414	2.1	40	-N		C	0835	.33	.35			
KAND	01	0906	0926		N24	E10	.352	8414	2.1	20	-F								C
CAPS	01	1100	1155		N33	E33	.656	8415	3.9	55	1N	3		1134	1.80	2.30		175	
ATHN	01	1103	1144	1106	N26	E29	.563	8415	3.6	41	-B	2		1106	.34	.70	1.80		
KIEV	01	1110E	1200D	1135	N34	E35	.681	8415	4.1	50D	1F		C	1135	3.61	6.00		60	EG
KHAR	01	1118E	1210D		N36	E32	.671	8415	3.9	52D	1F		V	1155			1.80		EO
MCMA	01	1136	1230		N35	E34	.680	8415	4.0	54	-B		C	1136	.83	1.10			BEG
SACP	01	1644	1659	1652	N35	W19	.560	8413	31.3	15	-F		C		.18	.18			
LOCK	01	1810	1825	1818	N29	W02	.396	8413	1.6	15	1N		C	1818	2.00	2.20		20	
SACP	01	1823E	1840	1823	N29	W02	.396	8413	1.6	17D	-N		P		1.75	1.76			
LOCK	01	2030	2045	2038	N33	W31	.638	8415	30.5	15	-F		C	2038	.40	.50		10	
LOCK	01	2133	2145	2139	N23	E20	.436	8415	3.4	12	-F		C	2139	.70	.80		10	
HALE	01	2138	2155	2140	N26	E22	.487	8415	3.6	17	-N	1	C	2140	.31	.40			
BUCA	02	0610E	0702D		N26	E15	.418	8415	3.4	52D	-N		C	0636	1.10	1.20			E
CATA	02	0620E	0630D	0630	N26	E17	.437	8415	3.5	10D	-N			0630	.50	.56		188	
ATHN	02	0625	0646	0627	N25	E16	.415	8415	3.5	21	1N	2		0627	1.98	2.20	1.80		
ATHN	02	0724E	0731	0725	N26	E14	.410	8415	3.4	7D	-B	2		0725	.66	.70	2.00		
CLMX	02	1502	1518	1504	N22	E15	.370	8415	3.8	16	-B		C	1504	.30	.32			
CLMX	02	1525	1531	1526	N22	E15	.370	8415	3.8	6	-B		C	1526	.30	.32			
ATHN	02	1540E	1548D	1542	N24	E08	.337	8415	3.3	8D	-N	2		1542	.46	.60			
CAPS	02	1552	1556		N26	E13	.402	8415	3.6	4	-F	3		1554	.90	1.00		145	D
HUAN	02	1553	1558		N26	E08	.367	8415	3.3	5	-F	1	P	1554	.25	.25			D
	02	1600	1620	NO FLARE PATROL															
SACP	02	1736	1813D	1757	N26	E06	.358	8415	3.2	37D	-F		P		.70	.69			
MCMA	02	1743	1756		N35	E20	.566	8415	4.2	13	-B		C	1745	.26	.30			D
HUAN	02	1815	1819		N26	E07	.362	8415	3.3	4	-F	1	P	1817	.25	.25			D
	02	1850	1855	NO FLARE PATROL															
MCMA	02	1917	1935	1925	N37	W30	.662	8413	31.6	18	-N		C	1925	1.03	1.40			E
	02	1955	2005	NO FLARE PATROL															
	02	2045	2145	NO FLARE PATROL															
MCMA	02	2146	2205		N38	W32	.686	8413	31.5	19	-N		P	2155	1.24	1.70			FL
HALE	03	0357	0442	0401	N35	W51	.820	8413	30.3	45	1F	1	C	0401	2.58	4.50			
KAND	03	0630	0653		N19	E30	.530	8422	5.5	23	1N			0644		2.50			C
BUCA	03	0635E	0721D	0645	N20	E30	.535	8422	5.5	46D	-B		C	0645	1.10	1.30			EF
BUCA	03			0659										0659	2.22				
CATA	03	0640E	0715D	0648	N22	E30	.547	8422	5.5	35D	1B			0648	1.80	2.16		245	
ATHN	03	0640E	0716	0650	N20	E32	.561	8422	5.7	36D	1B	2		0650	2.81	3.30	2.00		
CAPS	03	0643	0709		N21	E30	.541	8422	5.5	26	-B	3		0650	1.30	1.60		201	C
BAKO	03	0657E	0706		N20	E35	.599	8422	5.9	9D	1		P	0702	2.16	2.69		50	
MCMA	03	1415	1605	1420	N30	W20	.509	8413	2.1	110	1B		C	1420	2.06	2.40			FKL
MCMA	03							8414											
CAPS	03	1416	1506		N32	W22	.548	8414	1.9	50	1N	3		1425	2.50	2.90		170	FIJ
HUAN	03	1420	1505		N29	W20	.498	8414	2.1	45	1N	1	P	1425	1.91	1.90			E
HUAN	03	1420	1505		N36	W24	.606	8413	1.8	45					1.00	1.08			
ATHN	03	1428E	1509	1430	N35	W36	.696	8413	31.9	41D	-B	2		1430	.54	1.10	1.50		
WEND	03	1452	1458		N29	W18	.480	8414	2.3	6	1F	3			3.09				
WEND	03	1452	1458		N35	W23	.588	8413	1.9	6	1F	5			5.16				
LOCK	03	1517E	1540	1517E	N34	W23	.577	8413	1.9	23D	-F		C	1517	.70	.80		10	
LOCK	03	1615	1628	1621	N21	E24	.465	8422	5.5	13	-F		C	1621	.40	.40		10	
MCMA	03	1628	1735	1650	N33	W24	.575	8413	1.9	67	1N		C	1650	2.06	2.50			E
MCMA	03							8414											
LOCK	03	1635	1745	1655	N33	W22	.558	8413	2.0	70	-F		C	1655	1.60	1.90		10	
HUAN	03	1640	1724		N30	W22	.526	8414	2.0	44	-F	1	C	1653	.50	.51			E
HUAN	03	1640	1724		N35	W26	.611	8413	1.7	44					.45	.50			
LOCK	03	1710	1745	1725	N21	E24	.465	8422	5.5	35	-N		C	1725	.80	.90		10	
LOCK	03	1945	1958	1951	N21	E24	.465	8422	5.6	13	-F		C	1951	.40	.40		10	
HALE	03	1947	2004	1950	N20	E20	.407	8422	5.3	17	-F	1	C	1950	.31	.30			
LOCK	03	2032	2105	2040	N21	E24	.465	8422	5.7	33	-F		C	2040	.60	.70		10	
MCMA	03	2035	2115	2043	N20	E25	.471	8422	5.7	40	-F		C	2043	1.03	1.10			FH
LOCK	03	2213	2223	2216	N19	E23	.437	8422	5.7	10	-F		C	2216	.60	.70		10	
HALE	03	2214	2220	2216	N21	E21	.428	8422	5.5	6	-N	1	C	2216	.52	.60			
MCMA	03	2215	2226	2216	N22	E23	.461	8422	5.7	11	-N		C	2216	1.03	1.10			FH
ATHN	04	0435E	0514	0443	N19	E17	.359	8422	5.5	39D	1N	2		0443	2.08	2.20	1.80		
MANI	04	0442	0507	0446	N19	E21	.411	8422	5.8	25	-B	1		0446	1.44	1.58			
HALE	04	0444E	0444D		N20	E16	.357	8422	5.4		-	1	P	0444	.52	.60			
TACH	04	0503E	0511D		N21	E14	.346	8422	5.3	8D	1N		V	0503	3.65	3.80	2.90	63	E
BUCA	04	0606E	0702D	0632	N25	W28	.543	8414	2.2	56D	-B		C	0632	1.66	1.90			
ATHN	04	0625E	0656	0634	N24	W26	.512	8414	2.3	31D	-B	2		0634	1.32	1.50	2.00		
CAPS	04	0626	0646		N26	W27	.539	8414	2.2	20	1N	3		0637	1.20	1.40		195	
CATA	04	0630E	0650D	0635	N28	W27	.556	8414	2.2	20D	-B			0635	1.16	1.41		229	
KAND	04	0645	1221		N25	W58	.853	8427	30.9	336	1F			0700		2.50			C
BUCA	04	0647E	0746D	0706	N24	W58	.852	8427	30.9	59D	-F		C	0706	.56	1.00			
ARCE	04	0815	0840		N24	E15	.392	8422	5.5	25	-N		C	0820	.62	.67			H
KAND	04	0911	1206		N28	W31	.598	8414	2.1	175	-N								C
KAND	04	1040	1203		N18	E18	.363	8422	5.8	83	-B								C
ATHN	04	1046E	1114	1050	N19	E15	.335	8422	5.6	28D	-N	2		1050	.99	1.10	1.70		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
					APPROX.		CENTRAL	MCMATH PLAGE	CMP										
	DATE 1966 AUG	START	END	MAX. PHASE	LAT.	MER. DIST.	DISTANCE	REGION	DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
CAPS	04	1049	1127		N20	E15	.346	8422	5.6	38	-N	3		1055	.90	1.00		180	
KIEV	04	1100E	1140D	1100	N20	E15	.346	8422	5.6	40D	1F		C	1100	6.19	6.50		60	DI
ATHN	04	1320E	1329	1320	N19	E14	.323	8422	5.6	9D	-B	2		1320	.27	.30	2.00		
LOCK	04	1522	1550	1530	N33	W31	.636	8414	2.3	28	-N		C	1530	1.00	1.30		20	H
HUAN	04	1553	1634		N29	W33	.626	8414	2.2	41	-F	1	C	1609	.37	.41			E
HUAN	04	1553	1634		N35	W38	.712	8413	1.8	41					.50	.58			
MCMA	04	1553	1700	1615	N33	W32	.645	8413	2.3	67	-N		C	1615	.83	1.10			E
MCMA	04							8414											
LOCK	04	1555	1630	1615	N33	W33	.654	8414	2.2	35	-N		C	1615	.90	1.20		10	
ATHN	04	1626E	1632	1627	N23	W59	.859	8427	31.3	6D	-N	2		1627	.33	.70	1.60		
MCMA	04	1626	1634	1628	N23	W65	.904	8427	30.8	8	-N		C	1628	.36	.80			E
MCMA	04	2048	2111	2059	N28	W37	.661	8414	2.1	23	-F		C	2059	.62	.80			F
LOCK	04	2117	2150	2127	N31	W36	.669	8414	2.2	33	-N		C	2127	1.20	1.60		20	
MCMA	04	2122	2205	2130	N27	W37	.656	8414	2.1	43	-N		C	2130	.93	1.20			FJ
MCMA	04	2205	2221	2208	N27	W37	.656	8414	2.1	16	-N		C	2208	1.03	1.40			FJ
LOCK	05	0105	0200	0135	N31	W36	.668	8414	2.3	55	-F		C	0135	.80	1.00		10	
CULG	05	0119	0228D	0140	N23	W41	.681	8414	2.0	69D	-N		C	0140	1.13	1.43			F
MANI	05	0135	0215	0137	N27	W38	.666	8414	2.2	40	-F	2		0137	.67	.90			
MANI	05			0154				8414						0154	.41	.56			
CULG	05	0355	0424D	0406	N28	W41	.702	8414	2.1	29D	-N		P	0406	.83	1.12			
TACH	05	0404E	0407D		N25	W40	.678	8414	2.2	3D	1N		V		1.83	2.50	1.50	63	EL
BUCA	05	0610E	0720D		N22	E03	.279	8422	5.5	70D	-N		C	0705	.92	.90			
KAND	05	1051	1232		N19	E05	.239	8422	5.8	101	-N								C
KAND	05	1125	1140		N24	W42	.696	8414	2.3	15	-F								
KAND	05	1135	1301		N30	W45	.750	8414	2.1	86	1N			1300		4.20			C
MCMA	05	1148	1203	1150	N30	W46	.759	8413	2.0	15	1N		C						EK
HUAN	05	1152	1218		N30	W45	.750	8414	2.1	26	-N	1	P	1209	.37	.46			D
MCMA	05	1203	1220	1206	N30	W46	.759	8413	2.1	17	1N		C	1206	1.03	1.60			EK
KAND	05	1220	1252		N36	W51	.823	8413	1.7	32	1F								C
HUAN	05	1226	1252	1244	N34	W55	.847	8413	1.4	26	-N	2	C	1244	.62	.88			E
SACP	05	1239E	1252D	1245	N33	W53	.829	8413	1.6	13D	1N		P		1.87	2.56			
MCMA	05	1220	1246	1230	N32	W50	.802	8414	1.8	26	1N		C	1230	2.06	3.60			EK
HUAN	05	1226	1446	1327	N27	W46	.748	8414	2.1	140	1N	2	C	1327	2.37	2.94			
ATHN	05	1229E	1355	1232	N27	W42	.708	8414	2.4	86D	1N	2		1232	3.30	4.70	1.70		
SACP	05	1239E	1519	1320U	N26	W44	.725	8414	2.2	160D	2N		P		4.36	5.21			
LOCA	05	1255	1437	1330	N25	W46	.742	8414	2.1	102	1N		V	1330	3.57	5.00			
MCMA	05	1306	1450	1330	N32	W50	.802	8414	1.8	104	1B		C	1330	2.32	4.00			F
KIEV	05	1310E	1407D	1325	N26	W51	.793	8414	1.7	57D	2N		C	1325	10.31			70	I
CAPS	05	1314	1402		N25	W45	.732	8414	2.2	48	1N	3		1316	2.50	3.60		176	J
LOCK	05	1445E	1515	1445E	N32	W46	.767	8414	2.2	30D	-F		C	1445	.70	1.10		10	
CULG	05	2221	2228	2223	N26	W50	.784	8414	2.2	7	-N		C	2223	.31	.48			
HUAN	05	2222	2227	2224	N25	W50	.782	8414	2.2	5	-F	2	C	2224	.21	.26			D
CULG	06	0316	0414D	0405	N25	W86	.994	8427	30.7	58D	-N		P	0405	.21				
MANI	06	0324	0340	0327	N23	W85	.993	8427	30.8	16	-B	2		0327	.21	.58			
TACH	06	0327E	0506D		N21	W85	.993	8427	30.8	99D	1N		V	0328	.73		2.10	63	D
MANI	06	0348	0408	0352	N25	W86	.994	8427	30.7	20	-B	2		0352	.15	.45			
KIEV	06	0455E	0550D	0502	N22	W90	.999	8427	30.5	55D	1N		C	0502	4.13			70	A
KAND	06	0620	0815		N24	W90	.999	8427	30.5	115	1N								PV
ISTA	06	0740	0905		N27	W90	.999	8427	30.6	85	-								
CAPS	06	0759	0809		N25	W90	.999	8427	30.6	10	1N	3		0803	1.00			165	C
ATHN	06	0800E	0814	0803	N24	W90	.999	8427	30.6	14D	-N	2		0803	.33		1.40		
ARCE	06	0800	0817		N25	W88	.997	8427	30.7	17	1N		C	0807	.72	3.50			
MANI	06	0803	0812		N23	W89	.998	8427	30.7	9	-N	1		0804	.52	1.67			
ATHN	06	0827	0853D	0833	N24	W90	.999	8427	30.6	26D	1N	2		0833	.99		1.80		
ARCE	06	0827	0915		N25	W88	.997	8427	30.8	48	2N		C	0837	1.14	5.59			
CATA	06	0830E	0835D	0835	N35	W90	.998	8413	30.6	5D	-F			0835	.52			144	
ATHN	06	1235E	1254	1235	N24	W90	.999	8427	30.8	19D	1N	2		1235	.66		1.80		
LOCK	06	1635	1740	1655	N38	W33	.691	8415	4.2	65	-F		C	1655	.70	1.00		10	
MCMA	06	1644	1755	1657	N37	W33	.683	8415	4.2	71	-N		C	1657	.41	.60			E
LOCK	06	1900	1945	1910	N22	W17	.388	8422	5.5	45	-B		C	1910	1.60	1.80		30	
SACP	06	1901	1940	1913	N21	W17	.378	8422	5.5	39	-N		P		1.74	1.73			
MCMA	06	1902	1928	1905	N21	W17	.378	8422	5.5	26	1B		C	1905	2.06	2.20			EH
HALE	06	1903	1925	1905	N21	W16	.366	8422	5.6	22	-B	1	C	1905	1.55	1.70			
HUAN	06	1909	1936		N21	W17	.378	8422	5.5	27	-N	1	P	1911	.95	.95			E
MCMA	06	2018	2023		N29	W65	.908	8414	2.0	5	-N		C	2022	.52	1.20			D
LOCK	06	2105	2157	2145	N37	W90	.998	8427	31.1	52	2F		C	2145	1.70	5.80		10	H
LOCK	07	0005	0055	0030	N34	W65	.913	8415	2.1	50	1N		C	0030	2.20	4.80		10	L
HALE	07	0015	0120	0027	N34	W66	.918	8415	2.1	65	1N	1	C	0027	.83				T
SACP	07	0101	0134	0110	N21	W19	.401	8422	5.6	33	-F		C		1.04	1.05			
LOCK	07	0105	0115D	0110	N22	W17	.388	8422	5.8	10D	-N		C	0110	.70	.80		10	
KAND	07	0901	0941		N26	W55	.829	8415	3.3	40	-N								C
KAND	07	0908	0915		N21	W13	.333	8422	6.4	7	-N								C
LOCK	07	1532	1630	1600	N23	W77	.969	8414	1.9	58	1N		C	1600	.80	2.20		10	
ATHN	07	1539E	1615	1548	N21	W75	.960	8414	2.0	36D	1N	1		1548	1.16		1.50		EHK
MCMA	07	1543	1620	1547	N22	W80	.980	8414	1.7	37	-N		C						EHK
MCMA	07			1603															

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OBSERV-ATORY	OBSERVED UT				LOCATION						DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 AUG	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. %	
LOCK	07	1616	1640	1623	N25	W60	.868	8415	3.2		24	-F		C	1623	.40	.80		10	
MCMA	07	1623	1639	1627	N25	W62	.883	8415	3.0		16	-N		C	1627	.41	.90			D
LOCK	07	1802	1825	1812	N25	W60	.868	8415	3.3		23	-F		C	1812	.40	.80		10	
LOCK	07	2000	2015	2005	N23	W30	.551	8422	5.6		15	-F		C	2005	.50	.60		10	
HALE	08	0120	0128	0123	N27	W84	.990	8414	1.8		8	-N	1	C	0123	.41				
ABST	08	0628	0634	0630	N26	W81	.982	8414	2.2		6	2N		C	0630	.99			54	D
KHAR	08	0629	0644		N23	W90	.999	8414	1.5		15	2N		V	0635			1.80		LO
ISTA	08	0804	0819		N23	W90	.999	8414	1.6		15	1								
LOCK	08	1535	1544	1540	N27	W36	.643	8422	5.9		9	-F		C	1540	.50	.70		10	
MEUD	08	1620	1630		N26	W90	.999	8414	1.9		10	-F								A
SACP	08	1621	1643	1624	N26	W88	.997	8414	2.1		22	-F		C		.42				
SACP	08	1650	1731	1659	N22	W43	.699	8422	5.5		41	-F		C		1.74	2.03			
HUAN	08	1655	1713	1700	N22	W42	.688	8422	5.6		18	-N	2	C	1700	.77	.90			E
LOCK	08	1656	1718	1701	N23	W43	.702	8422	5.5		22	-N		C	1701	1.00	1.40		20	
MCMA	08	1657	1725	1703	N22	W42	.688	8422	5.6		28	-N		C	1703	.72	1.00			E
SACP	08	1754	1810	1758	N27	W89	.998	8414	2.1		16	-F		C		.76				
HUAN	08	1755	1804	1757	N27	W90	.999	8414	2.0		9	-F	2	C	1757	.46				E
LOCK	08	1755	1806	1758	N30	W85	.992	8414	2.4		11	-N		C	1758	.50	1.70		20	H
LOCK	08	1805	1820	1810	N30	W68	.926	8414	3.7		15	-F		C	1810	.40	.90		10	
LOCK	08	1846	1854	1850	N27	W77	.969	8414	3.0		8	-F		C	1850	.20	.60		10	
LOCK	08	1900	1913	1905	N30	W85	.992	8414	2.4		13	-F		C	1905	.20	.70		10	
LOCK	08	2347	0012	2351	N31	W90	.998	8414	2.2		25	-F		C	2351	.30	1.20		10	L
LOCK	09	0116	0140	0121	S26	E34	.721	8421	11.6		24	-F		C	0121	.60	.80		10	
HUAN	09	1226	1237	1230	N28	W90	.999	8415	2.8		11	-F	2	C	1230	.21				D
KAND	09	1230	1325		N26	W90	.999	8415	2.8		55	1N								C
KAND	09	1358	1400		N34	E90	.998	8438	16.3		2	□								C
HUAN	09	1659	1706	1701	N22	W58	.848	8422	5.4		7	-F	2	C	1701	.25	.35			D
LOCK	09	1659	1715	1702	N23	W56	.832	8422	5.5		16	-N		C	1702	.50	.90		20	
KAND	10	0700	0835		N26	W90	.999	8422	3.5		95	□								C
HUAN	10	1231	1236	1233	N23	W68	.923	8422	5.4		5	-F	2	C	1233	.25				D
KAND	10	1322	1405		N40	E90	.997	8438	17.3		43	-N								C
LOCK	10	1958	2027	2009	N21	E01	.253	8421	10.9		29	-F		C	2009	.20	.20		10	
	11	0145	0205	NO FLARE PATROL																
WEND	11	0603	0613		N33	E50	.803	8435	15.0		10	1N	3			3.09				
WEND	11	0611	0621		N33	E53	.827	8435	15.2		10	-N								
WEND	11	0612	0623		N31	E51	.805	8435	15.1		11	-N								
LOCK	11	1522	1535	1528	N21	W08	.284	8421	11.0		13	-F		C	1528	.20	.20		10	
MCMA	11	1812	1815		N35	E46	.777	8435	15.2		3	-N		P	1812	.52	.80			D
LOCK	11	2038	2100	2045	S21	W01	.461	8429	11.8		22	-N		C	2045	.50	.60		10	
ARCE	12	0800	0905		N34	E36	.684	8435	15.0		65	-N		C	0815	.81	1.12			H
ARCE	12	0910	0950		N32	E35	.661	8435	15.0		40	-N		C	0935	.65	.87			H
KAND	12	0930	1015		N30	E39	.689	8435	15.3		45	-N								V
HUAN	13	1456	1508		S23	W21	.587	8429	12.0		12	-F	1	C	1501	.21	.22			D
HALE	13	1628	1630D	1630U	N33	E17	.512	8435	15.0		2D	-N	1	P	1630	.21	.20			
LOCK	13	2117	2130	2122	N34	E17	.525	8435	15.2		13	-F		C	2122	.40	.50		10	
HUAN	13	2120	2134		N35	E17	.537	8435	15.2		14	-F	1	C	2123	.31	.35			E
ARCE	14	0800	0830		N34	E14	.505	8435	15.4		30	1N		C	0800	1.73	2.00			H
KAND	14	0906	1130		S29	E33	.740	8441	16.9		144	1B			1046		3.20			C
CAPS	14	1027	1041		S29	E25	.681	8441	16.3		14	-N	3		1033	.60	.80		165	C
KHAR	14	1029E	1045D		S28	E33	.732	8441	16.9		16D	1F		V	1029			1.80		DO
KAND	14	0906	1130		N32	E13	.472	8435	15.4		144	1F			1046		2.50			C
ARCE	14	0916	0930		N34	E14	.505	8435	15.4		14	1N		C	0925	1.76	2.04			
KAND	14	0906	1130		S23	W29	.656	8429	12.2		144	1N			1046		2.50			C
HUAN	14	1519	1542		S29	E32	.732	8441	17.0		23	-F	2	C	1523	.25	.30			D
HUAN	14	1627	1640	1632	S29	E32	.732	8441	17.1		13	-F	2	C	1632	.31	.38			
LOCK	14	1658	1720	1702	S28	E25	.671	8441	16.6		22	-N		C	1702	.50	.70		10	
SACP	14	1700	1716	1702	S27	E27	.676	8441	16.7		16	-F		C		.61	.70			
LOCK	14	2315	2342	2323	S22	W43	.776	8429	11.7		27	-F		C	2323	.50	.80		10	
CULG	14	2353	2400D	2359	S27	E21	.633	8441	16.6		7D	-B		C	2359	.31	.39			
LOCK	14	2354	0006	2358	S30	E18	.649	8441	16.3		12	-N		C	2358	.40	.50		10	
MANI	15	0213	0220		N23	E20	.427	8438	16.6		7	-F	2		0214	.26	.27			
HALE	15	0434	0439	0435	S27	E15	.597	8441	16.3		5	-F	1	C	0435	.21	.30			
KAND	15	0645	0714		S22	W45	.794	8429	11.9		29	-N								P
SACP	15	1508	1528	1517	N33	E45	.758	8440	19.0		20	-F		C		1.04	1.30			
MCMA	15	1513	1528		N33	E47	.776	8440	19.2		15	-N		C	1515	.36	.50			EL
HUAN	15	1832	1848	1835	S22	W50	.836	8434	12.0		16	-F	2	C	1835	.25	.35			D
HUAN	15	1950	2004	1953	S22	W51	.844	8434	12.0		14	-F	2	C	1953	.21	.29			D
HUAN	15	2013	2056		S22	W51	.844	8434	12.0		43	-F	1	C	2033	.43	.62			
MANI	16	0230	0235		N31	W18	.494	8435	14.8		5	-F	2		0231	.21	.23			
ATHN	16	0450E	0502	0450	N28	W20	.477	8435	14.7		12D	-F	2		0450	.58	.70	1.20		
ATHN	16	0601	0612	0603	N28	E35	.634	8440	18.9		11	-N	2		0603	.50	.70	1.50		

SOLAR FLARES

AUGUST 1966

OBSERV-ATORY	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. %	
	AUG																		
BUCA	16	0650E	0655D		N32	W21	.530	8435	14.7	5D	-B		C	0652	.67	.80			D
CULG	16	0652E	0658	0652	N31	W21	.519	8435	14.7	6D	-N		P	0652	.41	.46			H
KAND	16	0730	0820		S20	W60	.904	8429	11.8	50	-N								P
MEUD	16	0802	0824	0810	S22	W58	.896	8429	12.0	22	1F			0810	1.40				
ISTA	16	0805	0820		S07	W67	.929	8429	11.3	15	-								
BUCA	16	0805E	0821D		S21	W57	.886	8429	12.1	16D	1N		C	0814	1.12	2.50			
CAPS	16	0807	0815		S21	W60	.907	8429	11.8	8	-N	3		0811	1.00			160	
BUCA	16	0805E	0847		N29	E32	.609	8440	18.7	42D	-N		C	0817	1.12	1.40			E
ATHN	16	0813	0821	0816	N28	E34	.624	8440	18.9	8	-F	2		0816	.66	.80	1.70		
KAND	16	0910	0953		N17	E90	.999	8443	23.1	43	-N								C
MANI	16	0930	0941	0932	N28	E29	.570	8440	18.6	11	-F	1		0932	.21	.25			
KAND	16	0930	1016		N27	E33	.607	8440	18.9	46	-F								C
ATHN	16	0940	0958	0955	N27	E34	.618	8440	19.0	18	-N	2		0955	.66	1.30	1.40		
MEUD	16	1101	1115		N18	E90	.999	8443	23.2	14	-F								
ATHN	16	1114E	1133	1126	S23	W59	.905	8429	12.0	19D	-B	2		1126	.33	.70	1.30		
MEUD	16	1124	1145		S22	W60	.909	8429	12.0	21	-N			1129	.70				
KHAR	16	1128E	1132		S23	W65	.940	8429	11.6	4D	1F		V	1128			1.80		DO
MCMA	16	1335	1410		N23	W02	.283	8438	16.4	35	-N		C	1354	1.03	1.00			E
LOCK	16	1538	1640	1601	N27	E90	.999	8443	23.4	62	2N		C	1601	1.60	6.40		20	L
MEUD	16	1550	1645		N22	E90	.999	8443	23.4	55	-N								
SACP	16	1551	1612	1559	N29	E92	.998	8443	23.4	21	-N		C		.85				
LOCK	16	1751	1810	1755	N26	E01	.331	8438	16.8	19	-F		C	1755	.30	.30		10	
MCMA	16	1802	1816		N23	E02	.283	8438	16.9	14	-N		C	1802	.83	.90			E
MCMA	16	2017	2122	2036	N23	W04	.288	8438	16.5	65	-N		C	2036	1.03	1.00			FL
LOCK	16	2025	2040	2030	S20	W46	.794	8429	13.4	15	-F		C	2030	.30	.80		10	H
LOCK	16	2025	2100	2035	N22	W04	.272	8438	16.6	35	-F		C	2035	.40	.40		10	
LOCK	16	2123	2138	2125	S21	W63	.925	8429	12.2	15	1B		C	2125	1.10	2.60		30	H
MCMA	16	2124	2125		S22	W69	.958	8429	11.7	1	-B		P	2125	.62	1.80			DV
HALE	16	2125	2134	2127	S19	W62	.915	8429	12.2	9	-N	1	C	2127	.36				
LOCK	16	2230	2300	2237	N14	W05	.153	8438	16.6	30	-F		C	2237	.40	.40		10	
MANI	16	2246	2257	2249	N27	W04	.353	8438	16.6	11	-F	2		2249	.31	.33			
SACP	16	2255	2310	2301	N30	E87	.995	8442	23.5	15	-F		C		.42				
LOCK	16	2310	0010	2350	N20	E80	.979	8443	23.0	60	-F		C	2350	.30	.90		10	
MANI	16	2334	2343	2337	N19	E82	.986	8443	23.1	9	-N	2		2337	.10	.27			
LOCK	17	0022	0029	0025	N22	E80	.979	8443	23.0	7	-F		C	0025	.10	.30		10	H
LOCK	17	0028	0046	0033	S21	W66	.942	8429	12.1	18	1B		C	0033	1.60	4.00		30	
MANI	17	0030	0047	0035	S24	W64	.937	8429	12.2	17	1B	3		0035	1.51	3.18			
HALE	17	0031	0042	0034	S21	W72	.970	8429	11.6	11	1B	1	C	0034	.83				
HALE	17	0445E	0450		N19	E80	.980	8443	23.2	5D	-N	1	P	0449	.21				
ATHN	17	0445E	0502		N21	E75	.959	8443	22.8	17D	-N	2		0445	.66		1.30		
MANI	17	0452	0510	0455	N19	E79	.976	8443	23.1	18	-N	2		0455	.62	1.56			
ATHN	17	0548	0602	0550	N20	E76	.964	8443	22.9	14	-F	2		0550	.41		1.30		
KAND	17	0800	0814		N27	E18	.447	8440	18.7	14	-F								C
KAND	17	0900	1130		N20	W15	.337	8438	16.3	150	2N			0953		10.40			C
ONDR	17	0933	1040		N22	W10	.310	8438	16.6	67	2N		V	0933			2.50		CFHK
MEUD	17	0933	1130	0941	N25	W10	.352	8438	16.6	117	2N			0941	8.46	8.90			H
MEUD	17													0958	18.87	19.60			
NERA	17	0936E	0962D		N22	W12	.328	8438	16.5	26D	1	2							
ATHN	17	0936	1041	0943	N23	W10	.324	8438	16.6	65	2N	2		0943	6.11	6.40	1.80		
KHAR	17	0937	1040	0945	N23	W11	.332	8438	16.6	63	2N		V	0947	11.34	12.10	1.80		FHOV
CAPS	17	0939	1038		N24	W10	.338	8438	16.7	59	1B	3		0945	4.30	4.60		220	L
MANI	17	0940	1005	0945	N23	W08	.309	8438	16.8	25	1N	1		0945	3.61	3.90			
CATA	17	0940E	1050D	0942	N22	W15	.359	8438	16.3	70D	1N			0942	4.26	4.54		180	
ABST	17	1014E	1055	1014	N22	W14	.349	8438	16.4	41D	1		C	1014	1.79	1.91		78	D
KAND	17	1120	1130		S25	W03	.528	8441	17.2	10	-N								P
ATHN	17	1127	1137	1128	S30	W01	.598	8441	17.4	10	-N	2		1128	.33	.70	1.30		
LOCK	17	2120	2210	2140	N27	E90	.999	8442	24.6	50	1F		C	2140	1.00	2.70		10	
HALE	18	0020	0028	0026	S21	E70	.961	8452	23.3	8	-F	1	C	0026	.21				
HALE	18	0126	0155	0140	N26	W16	.415	8438	16.9	29	-F	1	C	0140	.31	.30			D
MITK	18	0134	0200	0147	N21	E68	.921	8443	23.2	26	1F		C	0147	.83				
HALE	18	0143	0233	0207	N20	E66	.908	8443	23.0	50	-B	1	C	0207	.72				E
MITK	18	0205	0235	0212	N20	E66	.908	8443	23.0	30	-F		C	0212	.62	1.40			D
MANI	18	0609	0621	0611	N29	E07	.394	8444	18.8	12	-F	2		0611	.26	.29			
LOCK	18	1730	1815	1750	S13	E64	.918	8452	23.5	45	-F		C	1750	.30	.70		10	
HUAN	18	1818	1847	1827	N22	W32	.565	8438	16.4	29	-N	2	C	1827	.70	.75			E
MCMA	18	1818	1855	1821	N22	W33	.578	8438	16.3	37	-N		C	1821	.62	.80			EL
LOCK	18	1818	1855	1827	N22	W33	.578	8438	16.3	37	-N		C	1827	1.60	1.90		20	
CLMX	18	1922E	1937		N38	W20	.589	8438	17.3	15D	-N		C	1925	.40	.44			
MCMA	18	2045	2112	2100	N18	E60	.861	8443	23.4	27	-B		C	2100	.52	1.00			E
LOCK	18	2047	2125	2055	N19	E58	.844	8443	23.2	38	1B		C	2055	1.40	2.50		30	
SACP	18	2052E	2058D	2058U	N20	E58	.845	8443	23.2	6D	-N		P		1.31	1.87			
HALE	18	2057E	2133	2105	N20	E57	.836	8443	23.1	36D	-B	2	P	2105	.83	1.50			D
HUAN	18	2101	2121		N19	E59	.853	8443	23.3	20	-N	1	P	2105	.58	.82			E
LOCK	19	0003	0100	0020	N29	E14	.436	8444	20.1	57	-F		C	0020	.50	.60		10	
HALE	19	0010	0025	0015	N30	E14	.449	8444	20.1	15	-F	2	C	0015	.10	.10			
HALE	19	0035	0100	0040	N04	E67	.919	8454	24.0	25	-F	2	C	0040	.21				
HALE	19	0045	0049	0046	N16	E66	.907	8447	24.0	4	-F	2	C	0046	.26				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 AUG	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. %	
LOCK	19	0100	0123	0110	N14	E67	.914	8447	24.1	23	-N		C	0110	.90	1.90		20	
MANI	19	0105	0112	0108	N12	E67	.915	8447	24.1	7	-N	2		0108	.36	.73			
HALE	19	0108	0120	0109	N17	E71	.939	8447	24.4	12	-N	2	C	0109	.52				E
HALE	19	0430	0436	0431	N18	E73	.950	8447	24.7	6	1B	2	C	0431	.62				E
TACH	19	0426E	0444		N23	W41	.677	8438	16.1	18D	1N		C	0426	2.28	3.10	2.70	78	
ABST	19	0433	0445	0436	N23	W40	.665	8438	16.2	12	1N		C	0436	3.14	4.00		80	D
HALE	19	0436	0445D	0438	N23	W39	.654	8438	16.3	9D	1B	3	C	0438	1.86	2.40			
MANI	19	0437	0455		N22	W40	.662	8438	16.2	18	1B	1		0440	2.06	2.82			
BUCA	19	0710E	0755D		N35	W52	.822	8435	15.4	45D	-N		C	0718	.67	1.20			
KAND	19	0720	1226		N34	W58	.865	8435	15.0	306	1N			0907		2.60			C
CAPS	19	0900	0908		N34	W54	.835	8435	15.3	8	-F	3		0903	.50	.90		155	I
ATHN	19	0901E	0909	0902	N33	W50	.800	8435	15.6	8D	-N	2		0902	.50	.70			
CAPS	19	0959	1017		N34	W54	.835	8435	15.4	18	1F	3		1012	2.00	3.60		153	I
CAPS	19	1125	1137		N28	W10	.394	8440	18.7	12	-F	3		1127	.30	.40		150	E
KAND	19	1129	1147		N23	W11	.331	8440	18.7	18	-N								C
KAND	19	1151	1211		N26	W41	.688	8438	16.4	20	-F								C
KAND	19	1152	1209		S26	W32	.709	8441	17.1	17	-F								C
ATHN	19	1523	1527	1524	N19	W39	.640	8438	16.7	4	-N	2		1524	.83	1.00			
LOCK	19	1610	1630	1615	N31	W50	.794	8438	15.9	20	-N		C	1615	.40	.70		10	
LOCK	19	1650	1710	1655	N33	W60	.877	8438	15.2	20	-N		C	1655	.50	1.00		10	
LOCK	19	2146	2202	2150	N23	W50	.773	8438	16.2	16	-N		C	2150	.70	1.10		20	
MCMA	19	2148	2150		N23	W51	.783	8438	16.1	2	-N		P	2150	.41	.70			E
HALE	19	2148	2200	2150	N23	W50	.773	8438	16.2	12	-N	2	C	2150	.31	.50			
HALE	20	0016	0038	0025	N32	W54	.830	8435	16.0	22	-N	1	C	0025	.36	.60			
IKOM	20	0028	0033D		N34	W60	.878	8435	15.5	5D	-F		V	0028	.52	1.10			D
LOCK	20	1905	1940	1910	N17	E33	.556	8447	23.3	35	-N		C	1910	.90	1.10		20	
MCMA	20	1906	1940	1907	N18	E33	.560	8447	23.3	34	-N		C	1907	.72	.90			E
HALE	20	2038	2049	2040	N34	W81	.981	8435	14.8	11	-N	1	C	2040	.26				
HALE	21	0205	0230	0216	N35	W81	.981	8435	15.0	25	-N	2	C	0216	.31				KJT
HALE	21	0250	0303	0256	N34	W81	.981	8435	15.0	13	-N	2	C	0256	.31				JT
MANI	21	0614	0626	0616	N32	W78	.971	8435	15.4	12	-F	1		0616	.15	.39			
KHAR	21	0930E	0949D	0933	N20	W70	.933	8438	16.1	19D	2N		V	0940	3.97	9.20	1.40		O
ATHN	21	0932	0941	0934	N21	W66	.908	8438	16.4	9	-N	2		0934	.33		1.50		
CAPS	21	0937	0954		N17	W69	.927	8438	16.2	17	-N	3		0947	.70			170	C
LOCK	21	1553	1610	1601	N35	W90	.998	8435	14.9	17	1F		C	1601	.60	2.40		10	
HALE	21	1615E	1640	1618	N35	W85	.990	8435	15.3	25D	1B	2	P	1618	.52				KJT
HALE	21			1625										1625	.72				
HALE	21	1650	1701	1655	N35	W85	.990	8435	15.3	11	-N	2	C	1655	.31				JT
HALE	21	1718E	1740D	1725	N24	E80	.978	8459	27.7	22D	-N	3	P	1725	.41				
LOCK	21	2310	2332	2320	N35	W90	.998	8435	15.2	22	-F		C	2320	.40	1.60		20	
HALE	21	2327	2341	2329	N33	W86	.992	8435	15.5	14	-N	3	C	2329	.21				T
TACH	22	0403	0435	0416	N23	E90	.999	8461	28.9	32	1F		C	0416	2.00		3.20	54	
MANI	22	0534	0543	0536	N21	E90	.999	8461	29.0	9	-N	2		0536	.15	.50			
MANI	22	0612	0620	0616	N23	E77	.968	8461	28.0	8	-F	2		0616	.62	1.50			
BUCA	22	0658E	0708D		N20	W85	.992	8438	15.9	10D	-N		C		.45				G
BUCA	22	0718E	0750D		N42	E56	.870	8457	26.5	32D	1F		C	0724	1.12	2.30			
KAND	22	0735	0743		N24	W90	.999	8438	15.6	8	-B								C
BUCA	22	0752E	0820D		N23	E90	.999	8461	29.1	28D	1F		C	0755	.56				
KAND	22	1018	1050		N32	E84	.988	8460	28.7	32	-N								P
ATHN	22	1416E	1429	1417	N22	E70	.933	8459	27.8	13D	-N	2		1417	.33		1.80		
CAPS	22	1418	1435		N24	E74	.954	8459	28.1	17	-B	3		1420	.50			194	CD
LOCK	22	2113	2220	2145	N28	E59	.861	8459	27.3	67	2N		C	2145	2.80	5.30		20	
CULG	22	2122	2253D	2145	N23	E57	.839	8459	27.2	91D	-N		P	2145	1.03	1.90			
HALE	22	2125	2220	2144	N30	E58	.857	8459	27.2	55	1B	1	C	2144	1.03	2.10			S
HUAN	22	2132	2207		N29	E60	.870	8459	27.4	35	-F	1	C	2143	1.24	1.80			
MCMA	22	2137	2221		N28	E60	.869	8459	27.4	44	1N		P	2145	1.24	2.50			F
LOCK	22	2258	2330	2306	N38	E48	.802	8457	26.6	32	1N		C	2306	1.90	3.20		20	
CULG	22	2305E	2325	2307	N40	E50	.824	8457	26.7	20D	-N		P	2307	.93	1.44			H
MITK	22	2330E	2358	2344	N24	E65	.902	8459	27.9	28D	1F		C	2344	1.03	2.40			
MITK	23	0036E	0117D		N23	E65	.901	8459	27.9	41D	1F		C	0048	1.65	3.80			E
ATHN	23	0451E	0610	0451	N23	E66	.908	8459	28.2	79D	-B	2		0451	.66		1.90		
CULG	23	0511	0524	0514	N24	E64	.895	8459	28.0	13	-N		C	0514	.21	.45			
ABST	23	0608	0738	0625	N23	E62	.879	8459	27.9	90	1		C	0625	2.25			85	DJK
CULG	23	0610	0647D	0628	N24	E64	.895	8459	28.1	37D	-N		P	0628	.72	1.75			
CATA	23	0615E	0645D	0625	N24	E63	.887	8459	28.0	30D	-B			0625	.67	1.49		209	
ATHN	23	0619	0630	0621	N22	E66	.908	8459	28.2	11	-N	2		0621	.60		1.90		
KIEV	23	0625E	0655D	0630	N18	E65	.900	8459	28.1	30D	1N		C	0630	5.16			70	DI
CAPS	23	0625	0808		N24	E61	.872	8459	27.8	103	1N	1		0745	2.00	4.00		182	KI
MANI	23	0627	0647	0628	N23	E60	.864	8459	27.8	20	-N	2		0628	.72	1.31			
KAND	23	0655	1310		N23	E61	.872	8459	27.9	375	1N			0800		5.00			C
KAND	23	0655	1229		N06	E13	.224	8454	24.3	334	1N			0914		2.50			C
CATA	23	0659E	0710D	0700	N06	E12	.207	8454	24.2	11D	-F			0700	.44	.46		148	
ISTA	23	0720	0730		N17	E63	.885	8459	28.0	10	1								
ISTA	23	0742	0815		N18	E61	.869	8459	27.9	33	-								
ISTA	23	0742	0825		N17	E63	.885	8459	28.0	43	1								
CATA	23	0745E	0840D	0800	N24	E61	.872	8459	27.9	55D	-N			0800	.72	1.50		164	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 AUG	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			CONO.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
BUCA	23	0812E	0900D		N24	E57	.840	8459	27.6	48D	1F		C	0831	1.12	2.10			
BUCA	23	0824E	0829D		N08	E10	.173	8454	24.1	5D	-N		C	0824	1.12	1.10			
BUCA	23	0839E	0920D		N08	E10	.173	8454	24.1	41D	-N		C	0850	1.57	1.60			
KHAR	23	0855E	0940D		N05	E12	.210	8454	24.3	45D	1F		V	0905	2.27	2.40	2.60		DHO
BUCA	23	0934E	0955D		N08	E10	.173	8454	24.1	21D	-N		C	0941	.67	.70			
KHAR	23	0900E	0932D		N22	E60	.863	8459	27.9	32D	2F		V	0905	2.84	5.80	2.40		EO
BUCA	23	0917E	0943D		N24	E57	.840	8459	27.7	26D	-F		C	0922	.90	1.70			
CAPS	23	0954	1130		N24	E62	.880	8459	28.1	96	2N	2		1100	2.50			215	FIJ
CATA	23	1007E	1101D	1010	N23	E61	.872	8459	28.0	54D	1N			1010	1.07	2.21		158	
KAND	23	0950	1220		N20	E72	.944	8461	28.8	150	1B			1002		4.40			C
BUCA	23	0951E	1054D		N22	E68	.921	8461	28.5	63D	1F		C	1007	1.68				
ATHN	23	1001E	1150	1004	N23	E69	.927	8461	28.6	109D	1N	2		1004	1.49	3.70	1.70		
CATA	23	1007E	1101D	1030	N22	E68	.921	8461	28.5	54D	1F			1030	2.22			146	
BUCA	23	1013E	1030D		N08	E10	.173	8454	24.2	17D	1F		C	1020	2.25	2.30			
ATHN	23	1306	1317	1308	N22	E64	.894	8459	28.3	11	-N	2		1308	.50	1.10	1.80		
CAPS	23	1307	1323		N26	E59	.859	8459	28.0	16	-N	3		1311	.80			166	CJ
HUAN	23	1308	1321	1311	N23	E60	.864	8459	28.0	13	-N	2	C	1311	.31	.44			D
MCMA	23	1310	1320		N23	E60	.864	8459	28.0	10	-B		C	1310	.52	1.00			DH
HALE	23	1623E	1636D	1631	N27	E52	.800	8459	27.6	130	-N	1	P	1631	.21	.30			
MCMA	23	1746	1753		N23	E60	.864	8459	28.2	7	-B		P	1753	.41	.80			E
HUAN	23	1752	1809		N24	E58	.848	8459	28.1	17	-F	2	C	1759	.21	.29			D
MANI	23	2234	2247	2237	N22	E51	.781	8459	27.8	13	-N	2		2237	.50	.79			
MITK	24	0333E	0333D		N20	E60	.861	8461	28.6		-F		P	0333	.93	1.80			D
MANI	24	0530	0535		N20	E60	.861	8461	28.7	5	-N	2		0531	.21	.38			
ATHN	24	0732	0757	0743	N22	E52	.791	8461	28.2	25	-N	2		0743	.66	1.20	1.40		
ATHN	24	0748E	0801	0750	N22	E51	.781	8461	28.1	13D	-N	2		0750	.56	1.00	1.60		
BUCA	24	0805E	0859D		N27	E90	.998	8467	31.1	54D	1F		C	0823	.90				
ARCE	24	0810	0833	0823	N27	E90	.998	8467	31.1	23	1N		C	0823	.69	3.90			
KAND	24	0815	1415		N25	E90	.999	8467	31.1	360	2B								P
ARCE	24	0823	0847	0833	N23	E49	.762	8461	28.0	24	-N		C	0833	.65	1.02			
ONDR	24	0843	0852		N24	E53	.804	8461	28.3	9	1N		V	0843			2.10		H
ARCE	24	0845	0847	0846	N23	E51	.783	8461	28.2	2	1B		C	0846	1.34	2.18			
KAND	24	0847	1226		N22	E53	.800	8461	28.3	219	-N								P
KAND	24	0910	1415		N07	W01	.017	8454	24.3	305	1N			0957		4.60			P
ARCE	24	0920	0955		N05	W07	.126	8454	23.9	35	-F		C	0950	.72	.72			H
KAND	24	1010	1035		N39	E20	.598	8457	25.9	25	-N								P
KAND	24	1100	1415		N23	E59	.855	8461	28.9	195	-B								P
MCMA	24	1248	1420	1253	N25	E58	.849	8461	28.9	92	-F		C						DHK
MCMA	24			1306										1306	.31	.60			DHK
CAPS	24	1308	1344		N26	E61	.874	8461	29.1	36	-F	3		1312	.70	1.40		157	JD
KAND	24	1345	1410		N19	W24	.442	8447	22.8	25	-F								P
HUAN	24	1425	1431		N08	W09	.156	8447	23.9	6	-F	1	P	1428	.25	.25			D
MCMA	24	1430	1450	1440	N25	E58	.849	8461	29.0	20	-F		C	1440	.41	.80			DH
ATHN	24	1433	1449	1435	N25	E58	.849	8461	29.0	16	-N	2		1435	.33	.60	1.80		
CAPS	24	1438	1452		N26	E61	.874	8461	29.2	14	-N	2		1439	.50			180	DJ
MCMA	24	1453	1550		N23	E56	.829	8461	28.8	57	-F		C	1504	.83	1.60			EH
ATHN	24	1500E	1542	1504	N23	E54	.811	8461	28.7	42D	1N	2		1504	2.64	4.60	1.70		
MCMA	24	1621	1655	1625	N23	E58	.847	8461	29.0	34	-F		C	1625	.41	.80			D
MCMA	24	1858	1904		N24	E40	.668	8459	27.8	6	-N		P	1903	.77	1.50			EH
CULG	24	2212	2241	2215	N05	W15	.260	8454	23.8	29	-B		C	2215	.62	.66			F
LOCK	24	2212	2245	2219	N06	W15	.258	8454	23.8	33	-N		C	2219	1.70	1.70		20	
IKOM	24	2300	2335D		N07	W15	.257	8454	23.8	35D	-F		V	2300	.41	.42			D
MANI	25	0023	0036	0025	N31	E48	.775	8460	28.6	13	-N	2		0025	.15	.24			
HALE	25	0340	0358	0344	N24	E35	.610	8459	27.8	18	-N	1	C	0344	.26	.30			
MANI	25	0342	0347	0343	N22	E30	.538	8459	27.4	5	-B	2		0343	.15	.18			
MANI	25	0549	0608	0553	N22	E28	.513	8459	27.3	19	-N	2		0553	.41	.48			
ABST	25	0618	0647	0622	N24	W20	.432	8443	23.8	29	1N		C	0622	2.69	2.90		81	DJK
ATHN	25	0620	0642	0622	N07	W18	.307	8454	23.9	22	-B	2		0622	1.16	1.20	2.00		
CAPS	25	0621	0632		N06	W22	.373	8454	23.6	11	1B	2		0623	2.50	2.60		240	J
MANI	25	0622	0653	0629	N07	W19	.323	8454	23.8	31	1B	2		0629	4.23	4.47			
CATA	25	0629E	0650D	0630	N07	E22	.372		26.9	21D	-B			0630	1.31	1.42		209	
KAND	25	0905	1025		N22	E45	.718	8461	28.8	80	-N								C
KAND	25	0945	0952		N21	E29	.520	8459	27.6	7	-N								C
KAND	25	0955	1025		N08	W17	.290	8454	24.1	30	-N								C
KAND	25	1040	1105		N32	E47	.769	8460	29.0	25	-F								C
CAPS	25	1127	1132		N25	E30	.557	8461	27.7	5	-N	3		1129	.40	.50		170	D
KAND	25	1128	1136		N22	E37	.625	8461	28.3	8	-F								C
KAND	25	1354	1420		N06	W20	.340	8454	24.1	26	-N								C
SACP	25	1356	1422	1400	N06	W25	.420	8454	23.7	26	1N		C		3.48	3.50			
CAPS	25	1357	1412		N08	W24	.404	8454	23.8	15	1B	3		1405	2.00	2.20		205	F
HUAN	25	1358	1419	1401	N07	W25	.420	8454	23.7	21	-B	1	C	1401	1.44	1.45			E
ATHN	25	1358	1427	1359	N09	W18	.308	8454	24.2	29	-B	2		1359	.91	.90	1.80		
MCMA	25	1454	1510		N07	W25	.420	8454	23.7	16	-N		C	1458	.52	.60			BF
HALE	25	2325	2330	2325	N22	E37	.625	8461	28.8	5	-N	2	C	2325	.10	.10			
HALE	25	2341	0001D	2342	N08	W26	.435	8454	24.0	20D	1N	2	P	2342	2.06	2.30			F
MANI	25	2343	2355	2348	N07	W27	.451	8454	24.0	12	-N	2		2348	.46	.52			
HALE	26	0028	0042	0035	N26	E66	.909	8467	31.0	14	-N	2	C	0035	.15				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 AUG	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. %	
HALE	26	0143	0215	0146	N23	E15	.366	8459	27.2	32	-N	2	C	0146	.72	.80			
HALE	26	0227	0300	0245	N25	E38	.649	8461	29.0	33	-N	2	C	0245	.72	1.00			
HALE	26	0309	0313	0310	N27	E23	.493	8459	27.9	4	-N	2	C	0310	.21	.20			
HALE	26	0328	0335	0330	N07	W30	.497	8454	23.9	7	-N	2	C	0330	.26	.30			
ISTA	26	0750	0805		N24	E23	.466	8459	28.1	15	-								
KAND	26	0755	0811		N25	E16	.400	8459	27.5	16	-F								C
ISTA	26	0820	0830		N22	E34	.588	8461	28.9	10	-								
KAND	26	0828	1326		N18	E34	.572	8461	28.9	298	1N			1212		4.30			C
ATHN	26	0832	0843	0834	N21	E39	.645	8461	29.3	11	-B	1		0834	.50	.70	1.90		
ARCE	26	0835	0840		N20	E33	.566	8461	28.8	5	-N		C	0835	.78	.96			
ISTA	26	0825	0835		N19	W49	.755	8443	22.7	10	-								
KAND	26	0828	0910		N22	W50	.770	8443	22.6	42	-F								C
ATHN	26	0831E	0853D		N21	W47	.737	8443	22.8	22D	-N	1		0832	.99	1.50	1.50		
MEUD	26	0834	0930	0840	N18	W48	.743	8443	22.8	56	-F			0840	.72	1.02			
CAPS	26	0835	0849		N20	W46	.724	8443	22.9	14	-N	2		0837	.30	.40		160	
ARCE	26	0835	0905		N20	W47	.735	8443	22.8	30	-N		C	0835	.59	.88			EH
KAND	26	0930	1012		N22	E25	.475	8461	28.3	42	-F								C
MEUD	26	1002	1009	1003	N10	W35	.570	8454	23.8	7	-F			1003	.93	1.10			
KAND	26	1010	1323		N07	W34	.555	8454	23.9	193	□								C
ATHN	26	1101	1117	1104	N37	E34	.682	8460	29.0	16	-N	1		1104	.66	.90	1.70		
MCMA	26	1245	1257	1249	N07	W33	.541	8454	24.1	12	-B		C	1249	.52	.60			E
HUAN	26	1246	1251		N07	W34	.555	8454	24.0	5	-F	1	P	1249	.46	.49			E
ATHN	26	1248	1258	1250	N09	W31	.511	8454	24.2	10	-N	2		1250	.69	.80	1.60		
ATHN	26	1258	1308	1300	N37	E34	.682	8460	29.1	10	-N	2		1300	.56	.70	1.40		
HUAN	26	1348	1354	1350	N20	E32	.553	8461	29.0	6	-F	1	C	1350	.21	.21			D
SACP	26	1413	1457	1431	N20	W50	.767	8443	22.8	44	-F		C		.77	.97			
HUAN	26	1414	1456	1425	N20	W50	.767	8443	22.8	42	-F	2	C	1425	.37	.46			E
MCMA	26	1415	1432	1420	N20	W51	.777	8443	22.8	17	-N		C	1420	.52	.80			D
ATHN	26	1425	1440	1428	N21	W51	.779	8443	22.8	15	-N	1		1428	.69	1.30	1.50		
MCMA	26	1512	1548	1517	N22	E25	.475	8461	28.5	36	-B		C	1517	.41	.50			D
HUAN	26	1513	1534	1523	N21	E25	.468	8461	28.5	21	-N	2	C	1523	.50	.50			E
ATHN	26	1521E	1535	1523	N37	E30	.649	8460	28.9	14D	-N	1		1523	.86	1.40	1.70		
MCMA	26	1530	1545	1532	N22	E58	.846	8467	31.0	15	-N		C	1532	.52	1.00			D
HUAN	26	1549	1601	1552	N08	W36	.583	8454	24.0	12	-F	2	C	1552	.25	.27			E
HUAN	26	1728	1757	1745	N23	E26	.495	8461	28.7	29	-N	2	C	1745	.37	.38			E
HUAN	26	1728	1757		N28	E20	.473	8459	28.2	29					.25	.25			
LOCK	26	1730	1755	1740	N26	E22	.473	8461	28.4	25	-N		C	1740	1.60	1.80		20	
SACP	26	1730	1950	1829	N24	E20	.432	8461	28.2	140	2N		C		10.32	10.45			
MCMA	26	1733	1744		N28	E22	.493	8459	28.4	11	-N		P	1744	.62	.70			E
MCMA	26	1742	1744		N23	E26	.495	8461	28.7	2	-N		P	1744	.52	.60			D
LOCK	26	1800	1900	1818	N25	E21	.453	8461	28.3	60	1N		C	1818	4.60	5.10		20	
HUAN	26	1805	1837		N23	E22	.446	8461	28.4	32	1N	2	P	1826	3.76	3.85			E
MCMA	26	1806	1955	1820	N23	E26	.495	8461	28.7	109	2B		C	1820	6.19	7.00			IH
HALE	26	1813	1854	1820	N23	E19	.411	8459	28.2	41	2B	1	P	1823	5.16	5.70			FI
SACP	26	2028	2049	2039	N24	E54	.813	8467	30.9	21	-F		C		.95	1.26			
MCMA	26	2033	2049	2037	N22	E56	.828	8467	31.1	16	-N		P	2037	.41	.80			EL
MCMA	26	2138	2150	2148	N22	E57	.837	8467	31.2	12	-N		C	2148	.52	1.00			EL
SACP	26	2146	2324	2215	N24	E29	.538	8461	29.1	98	2B		C		5.18	5.45			
LOCK	26	2153	2240	2210	N24	E30	.550	8461	29.2	47	2N		C	2210	4.30	5.20		20	
HUAN	26	2200	2235		N24	E32	.574	8461	29.3	35	-N	2	P	2212	1.65	1.75			E
LOCK	26	2315	2340	2324	N26	E22	.473	8461	28.6	25	-N		C	2324	.70	.80		20	
SACP	26	2317	2350	2324	N24	E19	.421	8461	28.4	33	-F		C		1.90	1.91			
MANI	26	2342	2352		N22	E26	.488	8461	28.9	10	-N	2		2342	.26	.30			
HALE	27	0047E	0053D	0047U	N07	W54	.804	8454	23.0	6D	-N	1	P	0047	.26	.40			
MANI	27	0210	0238	0216	N24	E30	.550	8461	29.3	28	-B	3		0216	1.20	1.30			
CULG	27	0211	0240	0218	N24	E29	.538	8461	29.3	29	-N		C	0218	.72	.80			
SIBE	27	0212	0233	0218	N22	E29	.525	8461	29.3	21	-F		C	0218	1.52	1.95		65	D
KODA	27	0214E			N24	E29	.538	8461	29.3		1N		P	0218	1.94	2.33			E
CULG	27	0519E	0539	0520	N26	E11	.369	8459	28.0	20D	-N		P	0520	.31	.32			
ATHN	27	0610E	0618		N09	W38	.611	8454	24.4	8D	-N	1		0612	.99	1.40	1.80		
CULG	27	0625	0648	0627	N26	W14	.393	8459	26.2	23	-N		C	0627	.52	.55			
CULG	27	0707	0720D	0717	N25	W11	.355	8459	26.5	13D	-N		P	0717	.62	.66			
KAND	27	0830	1012		N17	E21	.387	8461	28.9	102	□								
KAND	27	0830	1012		N08	W45	.702	8454	24.0	102	□								
ISTA	27	0900	0908		N08	W48	.738	8454	23.8	8	-								
WEND	27	0903	0916		N07	W46	.715	8454	23.9	13	-N								
ARCE	27	0903	0923		N06	W49	.751	8454	23.7	20	-N		C	0903	.75	1.15			
ATHN	27	0904	0916	0906	N08	W40	.638	8454	24.4	12	-N	1		0906	.83	1.10	1.80		
ATHN	27	1037	1127	1102	N09	W41	.651	8454	24.4	50	-N	1		1102	1.05	1.40	2.00		
ABST	27	1054	1147	1059	N08	W46	.714	8454	24.0	53	-N		C	1059	1.79			71	DJK
MEUD	27	1056	1109	1100	N04	W43	.681	8454	24.2	13	1N			1100	1.86	2.60			
SACP	27	1256	1335	1306	N22	E12	.324	8461	28.4	39	1N		C		4.64	4.58			
MCMA	27	1256	1337	1305	N22	E12	.324	8461	28.4	41	1B		C	1305	1.24	2.10			FL
HUAN	27	1257	1305	1259	N21	E13	.322	8461	28.5	8	-N	2	C	1259	.57	.57			E
WEND	27	1258	1316		N22	E13	.334	8461	28.5	18	1B	4			4.13				
CAPS	27	1259	1302		N19	E19	.374	8461	29.0	3	-N	1		1300	1.80	2.00		165	
WEND	27	1301	1325		N20	E12	.299	8461	28.4	24	-N								
ATHN	27	1308E	1322	1310	N20	E24	.448	8461	29.3	14D	-N	1		1310	1.29	1.40	1.80		
WEND	27	1310	1322		N08	W54	.804	8454	23.5	12	-N								

SOLAR FLARES

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 AUG	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
MCMA	27	1433	1455	1437	N07	W50	.762	8454	23.9	22	-B		C	1437	.52	.70			E
WEND	27	1434	1444		N10	W49	.749	8454	23.9	10	-N								
WEND	27	1434	1449		N08	W51	.772	8454	23.8	15	-B								
HUAN	27	1434	1450	1436	N08	W51	.772	8454	23.8	16	-N	2	C	1436	.45	.57			E
HUAN	27	1434	1450		N13	W45	.703	8447	24.2	16					.21	.25			
ATHN	27	1443	1458	1445	N09	W42	.664	8454	24.5	15	-N	1		1445	.93	1.20	1.60		
MCMA	27	1600	1618	1611	N22	E12	.324	8461	28.6	18	-B		C	1611	1.55	1.60			FH
HUAN	27	1601	1615		N21	E15	.344	8461	28.8	14	-F	2	C	1611	.45	.45			E
WEND	27	1603	1618		N20	E15	.333	8461	28.8	15	-F								
WEND	27	1603	1623		N23	E18	.399	8461	29.0	20	-N								
SACP	27	1609	1616	1610	N22	E15	.355	8461	28.8	7	-N		C		1.46	1.45			
SACP	27	1656	1715	1701	N24	E44	.712	8467	31.0	19	-F		C		.86	1.01			
MCMA	27	1704	1715	1708	N22	E12	.324	8461	28.6	11	-N		C	1708	.62	.70			E
HUAN	27	1707	1714	1708	N08	W53	.794	8454	23.7	7	-F	2	C	1708	.21	.26			D
MCMA	27	1756	1820		N22	E11	.314	8461	28.6	24	-N		C	1756	.77	.80			E
LOCK	27	1808	1816	1812	N21	E16	.355	8461	29.0	8	-N		C	1812	.70	.70		20	
MCMA	27	1800	1822	1803	N07	W52	.783	8454	23.9	22	-N		C	1803	.52	.70			E
MCMA	27	1844	1857	1848	N22	E10	.305	8461	28.5	13	-N		C	1848	.52	.60			E
HUAN	27	1845	1854	1849	N21	E13	.322	8461	28.8	9	-F	2	C	1849	.50	.50			E
SACP	27	1846	1910U	1854U	N22	E13	.334	8461	28.8	24U	-N		P		1.55	1.53			
MCMA	27	1855	1923		N06	W53	.795	8454	23.8	28	1B		C	1908	1.55	2.50			F
HUAN	27	1855	1923	1858	N07	W50	.762	8454	24.0	28	-N	2	C	1858	.83	1.03			E
HUAN	27	1855	1927		N08	W56	.824	8454	23.6	32					.25	.33			
SACP	27	1859E	1932	1909	N07	W51	.773	8454	24.0	33D	1F		P		2.69	3.40			
SACP	27	1932	1939	1935	N10	W56	.823	8447	23.6	7	-F		C		.18	.23			
LOCK	27	1955	2150	2040	N23	E13	.346	8459	28.8	115	-N		C	2040	1.60	1.80		20	
MCMA	27	2007	2206	2035	N22	E10	.305	8459	28.6	119	1N		C	2035	2.27	2.30			F
MCMA	27							8461											
HUAN	27	2015	2059	2035	N21	E15	.344	8461	29.0	44	-N	1	P	2035	1.01	1.00			E
SACP	27	2015	2137	2030	N22	E11	.314	8461	28.7	82	1N		C		4.94	4.88			
LOCK	27	2200	2250	2210	N24	E13	.359	8461	28.9	50	-N		C	2210	.90	.90		20	
SACP	27	2245	2347D	2251	N22	E08	.289	8461	28.5	62D	1N		P		2.77	2.73			
MANI	27	2324	2339	2327	N21	E07	.267	8459	28.5	15	-N	2		2327	.41	.43			
MITK	28	0007E	0015D		N05	W57	.836	8454	23.7	8D	-N		V						
MITK	28	0045	0106	0050	N05	W53	.796	8454	24.1	21	-F		C	0050	1.24	2.00			E
MANI	28	0047	0110	0050	N07	W54	.804	8454	24.0	23	-B	2		0050	.46	.76			
MITK	28	0318	0340	0324	N25	E03	.311	8461	28.4	22	-F		C	0324	1.34	1.40			
MANI	28	0323	0340	0326	N25	E08	.333	8461	28.7	17	-N	1		0326	.57	.60			
TACH	28	0330	0337	0329	N26	E05	.334	8461	28.5	7	1F		C		5.47	5.80	1.90	57	EL
ABST	28	0508	0531	0516	N07	W55	.815	8454	24.1	23	1		C	0516	1.34			71	DJ
MITK	28	0512	0533	0515	N07	W55	.815	8454	24.1	21	1N		C	0515	1.44	2.50			
MANI	28	0512	0540	0518	N06	W60	.862	8454	23.7	28	1B	2		0518	1.44	2.63			
TACH	28	0521E	0531	0523	N07	W54	.804	8454	24.2	10D	1N		C	0523	2.29	3.80	1.80	60	D
ABST	28	0637	0700	0644	N20	E02	.226	8461	28.4	23	1		C	0644	1.07	1.09		65	D
MITK	28	0643	0705	0645	N21	E02	.242	8461	28.4	22	-N		C	0645	1.96	2.00			E
CAPS	28	0644	0645		N20	E04	.233	8461	28.6	1	-N	1							C
ATHN	28	0645E	0703	0646	N09	E09	.158	8461	29.0	18D	-N	1			.99	1.10	1.80		
BUCA	28	0645E	0730D	0651	N20	E01	.224	8461	28.4	45D	-N		C	0651	1.68	1.70			E
CATA	28	0650E	0705D	0655	N21	E03	.245	8461	28.5	15D	-N			0655	1.10	1.14		191	
KAND	28	0650	0734		N21	E06	.260	8461	28.7	44	1N			0654		3.00			P
KAND	28	0709	0734		N08	W55	.814	8454	24.2	25	-N								P
CAPS	28	0715	0730		N06	W58	.844	8454	24.0	15	-F	2		0720	.30	.50		157	E
ATHN	28	0717E	0733	0719	N07	W60	.862	8454	23.8	16D	-N	1		0719	.33	.90	1.50		
BUCA	28	0830E	0850D		N23	E30	.543	8467	30.6	20D	-F		C	0836	.90	1.10			
BUCA	28	0900E	1005D	0916	N25	W02	.309	8461	28.2	65D	1N		C	0916	2.25	2.40			E
ATHN	28	0935E	0945D	0937	N25	E35	.614	8467	31.0	10D	-N	1		0937	.33	.40	1.60		
ABST	28	0946	1026	1007	N06	W68	.924	8454	23.3	40	1		C	1007	1.44			76	DJK
BUCA	28	0946E	1039	0956	N07	W65	.902	8454	23.5	53D	1N		C	0956	1.57	3.60			D
BUCA	28			1000										1000	2.25	5.10			
ATHN	28	0950E	1009		N08	W62	.878	8454	23.8	19D	1N	1		0952	1.16	2.30	1.90		
WEND	28	0950	1022		N07	E66	.910		2.4	32	1N	4			4.13				
ONDR	28	0951	1008		N08	W63	.886	8454	23.7	17	1N		V	1000			2.70		C
MEUD	28	0952	1000	0959	N06	W65	.903	8454	23.5	8	-B			0959	1.00				
CAPS	28	0952	1013		N06	W65	.903	8454	23.5	21	1N	3		1000	1.20			192	JG
HERS	28	0952	1025	0955	N07	W68	.923	8454	23.3	33	1N		P	0958	.93	2.50			DH
CATA	28	0955E	1015D	0958	N05	W66	.911	8454	23.5	20D	1B			0958	1.71			219	
ATHN	28	1007	1012	1008	N08	W60	.861	8454	23.9	5	-B	1		1008	.83	1.90	2.00		
ATHN	28	1014	1021	1015	N08	W55	.814	8454	24.3	7	-N	1		1015	.50	.80	1.70		
ATHN	28	1021	1031	1022	N25	E75	.959	8474	3.1	10	-F	1		1022	.50		1.50		
BUCA	28	1021E	1036D	1021	N21	E71	.938	8474	2.8	15D	1N		P	1021	1.12				CG
ATHN	28	1127	1135	1130	N08	W56	.824	8454	24.3	8	-N	1		1130	.53	1.00	1.60		
ATHN	28	1127E	1152		N25	W02	.309	8459	28.3	25D	-N	1		1130	.53	.60	1.70		
NERA	28	1150	1200D		N05	W58	.845	8454	24.1	10D	1	1							
ABST	28	1151	1207	1158	N05	W60	.863	8454	24.0	16	1		C	1158	2.25			68	D
HUAN	28	1153	1209	1157	N08	W60	.861	8454	24.0	16	-N	2	C	1157	.77	1.13			E
ATHN	28	1153	1210	1156	N09	W58	.842	8454	24.1	17	1B	1		1156	1.32	2.30	2.00		
MEUD	28	1200			N03	W55	.818	8454	24.4		1B				.77	1.13			
WEND	28	1241	1255		N18	E62	.877	8474	2.2	14	-N								
WEND	28	1241	1336		N17	E61	.868	8474	2.1	55	1N	4			4.13				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 AUG	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	28	1243	1250	1245	N07	W68	.923	8454	23.4	7	-F	2	C	1245	.25				D
WEND	28	1244	1258		N21	E28	.506	8467	30.6	14	-N								
ATHN	28	1250	1259	1252	N23	E35	.605	8467	31.2	9	-N	1		1252	.50	.60	1.50		
MCMA	28	1302	1350		N17	W60	.860	8447	24.0	48	-B		C	1312	.31	.80			BE
WEND	28	1309	1322		N26	E03	.327	8461	28.8	13	-F								
MCMA	28	1522	2000	1529	N23	E04	.281	8459	28.9	278	3B		C	1529	12.38	12.70			ITUV
MCMA	28							8461											
ATHN	28	1523	1617D	1527	N20	E10	.278	8461	29.4	54D	2B	1		1527	7.59	7.90	2.00		
CAPS	28	1523	1702		N22	E06	.275	8461	29.1	99	2B	3		1540	7.40	7.70		305	FIUG
HUAN	28	1523	1925	1529	N22	E04	.265	8461	28.9	242	2B	2	C	1529	6.50	6.50			HU
WEND	28	1525	1600	1538	N21	E05	.254	8461	29.0	35	4B	2			26.81				
LOCA	28	1530E	1637D	1530	N22	E03	.262	8461	28.9	67D	2B		S	1530	5.88	6.20			
LOCK	28	1530E	1700	1530U	N21	E04	.249	8461	28.9	90D	2B		C	1530	10.30	10.30		30	
SACP	28	1531E	1945D	1537	N22	E01	.257	8461	28.7	254D	3F		P		19.56	19.22			
SACP	28	1637	1657	1646	N07	W61	.870	8454	24.1	20	1N		C		2.43	3.66			
HUAN	28	1638	1656	1643	N08	W63	.886	8454	24.0	18	-N	2	C	1643	.57	.87			E
HUAN	28			1647										1647	.62	.95			
HALE	28	1640E	1646	1643	N08	W59	.852	8454	24.3	6D	1B	1	P	1643	1.34	2.50			
MCMA	28	1640	1657	1643	N07	W65	.902	8454	23.8	17	1B		C	1643	.93	2.10			EH
CAPS	28	1644	1653		N06	W60	.862	8454	24.2	9	1N	2							G
LOCK	28	1645	1658	1648	N09	W55	.814	8454	24.6	13	-B		C	1648	.70	1.30		30	
HALE	28	1640E	1945	1640U	N21	E05	.254	8461	29.1	185D	1B	2	P	1640	2.89	3.00			
HALE	28	1745	1750	1746	N22	W00	.257	8461	28.7	5	-N	1	C	1746	.52	.50			
HALE	28	1755	1812	1758	N05	W72	.949	8454	23.3	17	1B	1	C	1758	1.03				
HALE	28	1804	1817	1807	N06	W69	.930	8454	23.6	13	-N	1	C	1807	.31				
HALE	28	1818	1828	1822	N22	W00	.257	8461	28.8	10	-N	1	C	1822	.41	.40			
HALE	28	2046	2100	2047	N23	E26	.494	8467	30.8	14	-N	1	C	2047	.93	1.10			
HALE	28	2047	2100	2050	N22	W00	.257	8461	28.9	13	-B	1	C	2050	.62	.60			
MCMA	28	2047	2059	2049	N25	E30	.556	8467	31.1	12	-F		C	2049	1.34	1.50			F
HALE	28	2047	2115	2050	N28	E33	.609	8467	31.3	28	-N	1	C	2050	.62	.80			
CLMX	28	2049	2057	2051	N18	E13	.287	8461	29.8	8	-N		C	2051	.30	.32			
MCMA	28	2049	2105	2052	N23	E04	.281	8461	29.2	16	-B		C	2052	.62	.60			E
HALE	28	2110	2125	2115	N06	W69	.930	8454	23.7	15	-B	1	C	2115	.52				
MCMA	28	2112	2120	2118	N07	W68	.923	8454	23.8	8	-N		C	2118	.62	1.50			E
SACP	28	2114U	2139	2118	N07	W71	.942	8454	23.6	25U	1N		P		1.56	2.98			
MCMA	28	2127	2136	2130	N07	W68	.923	8454	23.8	9	-N		C	2130	.41	1.00			E
CLMX	28	2114	2118	2115	N46	W61	.906	8442	24.3	4	-B		C	2115	.40	.64			
MCMA	28	2123	2150	2135	N23	E03	.278	8461	29.1	27	-N		C	2135	1.29	1.40			E
HALE	28	2130	2150	2133	N22	E00	.257	8461	28.9	20	-B	1	C	2133	1.44	1.50			
CLMX	28	2132	2142	2133	N18	E13	.287	8461	29.9	10	-N		C	2133	.40	.42			
MCMA	28	2210	2223	2215	N23	E03	.278	8361	29.1	13	-N		C	2215	1.03	1.10			E
HALE	28	2210	2232	2213	N22	E00	.257	8461	28.9	22	-B	1	C	2213	.83	.90			
CULG	28	2211	2232	2213	N21	W01	.241	8461	28.8	21	-N		C	2213	1.34				
MANI	28	2215	2218		N23	W02	.276	8461	28.8	3	-N	2		2216	.26	.67			
MANI	28	2216	2224	2219	N05	W73	.954	8454	23.5	8	-N	2		2219	.36	.80			
CULG	28	2217	2232	2219	N04	W75	.964	8454	23.3	15	-B		C	2219	.62				
MCMA	28	2218	2222	2219	N07	W72	.948	8454	23.5	4	-B		C	2219	.52	1.50			D
HALE	28	2218	2222	2219	N05	W74	.959	8454	23.4	4	-B	1	C	2219	.41				
MCMA	28	2235	2255	2239	N23	E03	.278	8461	29.2	20	-F		C	2239	1.03	1.10			E
HALE	29	0155	0207	0201	N23	E63	.886	8474	2.8	12	-N	2	C	0201	.57	1.30			TJ
MANI	29	0240	0253	0244	N20	E61	.869	8474	2.7	13	-F	1		0244	.41	.76			
HALE	29	0242	0253	0244	N22	E62	.878	8474	2.8	11	-N	1	C	0244	.31	.70			TJ
MITK	29	0254E	0343D		N22	E62	.878	8474	2.8	49D	1N		C	0259	1.03	2.30			D
HALE	29	0306	0340D	0327	N22	E62	.878	8474	2.8	34D	-B	2	P	0327	.62	1.30			TJ
TACH	29	0307E	0350D	0328	N22	E60	.862	8474	2.6	43D	-N		C	0328	.83	1.60	4.40	90	D
HALE	29	0313	0326	0317	N07	W72	.948	8454	23.7	13	-N	2	C	0317	.36				T
HALE	29	0323	0338D	0333	N08	W79	.979	8454	23.2	15D	1N	2	P	0333	.62				T
HALE	29	0358E	0406	0358E	N11	W69	.928	8454	24.0	8D	-N	1	P	0358	.31				TJ
HALE	29	0358E	0408	0402	N22	E62	.878	8474	2.8	10D	-N	1	P	0402	.21	.40			T
HALE	29	0413	0422	0418	N22	E62	.878	8474	2.8	9	-N	2	C	0418	.21	.40			T
HALE	29	0421	0430	0427	N20	E58	.844	8474	2.5	9	-N	3	C	0427	.21	.40			
HALE	29	0425	0435D	0430	N22	E62	.878	8474	2.8	10D	-N	3	P	0430	.15	.30			T
HALE	29	0426	0435	0430	N21	E58	.845	8474	2.5	9	-B	3	C	0430	.15	.30			T
HALE	29	0426	0435D	0431	N22	E57	.837	8474	2.5	9D	-N	3	P	0431	.15	.30			T
MITK	29	0515E	0547D		N22	E60	.862	8474	2.7	32D	1N		C	0540	1.34	2.60			
WEND	29	0540	0555		N22	E62	.878	8474	2.9	15	1N	4			4.13				
TACH	29	0533	0625	0538	N22	W08	.288	8461	28.6	52	1B		C	0538	2.97	3.10	3.00	43	E
ONDR	29	0536	0643	0546	N21	W07	.266	8461	28.7	67	1N		V	0546			2.90		CEFH
MITK	29	0537	0607D	0539	N22	W07	.281	8461	28.7	30D	1N		C	0539	3.09	3.20			F
KIEV	29	0540E	0620D	0550	N23	W04	.281	8461	28.9	40D	1N		C	0550	5.16	6.00		65	EI
WEND	29	0540	0639		N22	W07	.281	8461	28.7	59	2N	6			6.19				
CATA	29	0545E	0630D	0550	N20	W08	.259	8461	28.6	45D	1B			0550	3.52	3.64		224	
MANI	29	0548	0609	0550	N20	W06	.244	8461	28.8	21	-N	1		0550	1.55	1.60			
CAPS	29	0554	0621		N09	W08	.142	8461	28.6	27	-B	3		0557	1.80	1.90		220	
VORO	29	0556	0625		N21	W08	.274	8461	28.6	29	-F		C	0558	.70	.75		56	E
VORO	29	0604	0610	0606	N22	W61	.870	8447	24.7	6	1F		C	0606	1.00	2.15		50	D
CAPS	29	0606	0704		N22	E60	.862	8474	2.8	58	1N	3		0608	2.00			182	EK
WEND	29	0609	0652		N22	E62	.878	8474	2.9	43	1N	4			4.13				
CAPS	29	0726	0745		N22	E60	.862	8474	2.8	19	1N	3		0737	1.20			182	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 AUG	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. %	
WEND	29	0726	0801		N22	E61	.870	8474	2.9	35	1N	5			5.16				
CATA	29	0730E	0830D	0807	N07	W61	.870	8454	24.7	60D	1N			0807	1.23			158	
CAPS	29	0805	0813		N03	W70	.938	8454	24.1	8	1B	3		0808	1.00			201	V
ARCE	29	0806	0810		N06	W71	.942	8454	24.0	4	-N		C	0806	.65	1.53			E
WEND	29	0807	0821		N07	W68	.923	8454	24.2	14	1N	3			3.09				
ARCE	29	0830	0851		N21	E61	.870	8474	2.9	21	1N		C	0835	.98	2.02			H
ARCE	29	0849	0905	0849	N21	W08	.274	8461	28.8	16	-N		C	0849	1.63	1.71			H
CAPS	29	0850	0908		N20	W05	.238	8461	29.0	18	1N	3		0852	2.00	2.10		185	HJG
ATHN	29	0850E	0912	0851	N20	W02	.225	8461	29.2	22D	-N	1		0851	1.65	1.70	1.40		
CAPS	29	0853	0859		N22	E60	.862	8474	2.9	6	1F	3		0855	2.30			156	
CAPS	29	1028	1100		N21	E59	.853	8474	2.9	32	-N	3		1030	.50	.90		180	D
ONDR	29	1158	1211		S16	W90	1.001	8479	22.7	13	-F		V	1203			1.50		AGJ
CAPS	29	1206	1233		N20	W10	.278	8461	28.8	27	-B	2		1210	.50	.60		203	G
ONDR	29	1207	1211		N22	W10	.304	8461	28.8	4	1F		V	1210			1.80		CJ
HUAN	29	1225	1237	1229	N08	W73	.952	8454	24.0	12	-F	2	C	1229	.37				D
CAPS	29	1226	1237		N04	W70	.938	8454	24.3	11	-N	2		1232	.40			150	G
SACP	29	1318	1507	1340	N22	W13	.333	8461	28.6	109	1N		C		3.57	3.53			
MCMA	29	1324	1445	1333	N21	W11	.300	8461	28.7	81	1B		C	1333	2.17	2.20			FHX
HUAN	29	1328	1407	1335	N21	W11	.300	8461	28.7	39	-N	2	C	1335	1.13	1.13			E
CAPS	29	1334	1427		N20	W13	.309	8461	28.6	53	1B	3		1340	2.40	2.50		270	CFHIL
NERA	29	1335E	1353		N22	W12	.323	8461	28.7	18D	1	2							
ONDR	29	1337	1359		N22	W11	.313	8461	28.7	22	2		V						F
KIEV	29	1337E	1400D		N24	W09	.325	8461	28.9	23D	2N		P	1337	6.19	7.00		70	EI
WEND	29	1343	1358		N19	W09	.255	8461	28.9	15	-B								
WEND	29	1343	1429		N18	W11	.263	8461	28.7	46	1N	4			4.13				
WEND	29	1411	1422		N19	W09	.255	8461	28.9	11	-N								
CLMX	29	1331	1348	1337	N58	W68	.953		24.5	17	-N		C	1337	.50	1.00			
HUAN	29	1332	1348	1338	N19	W80	.979	8447	23.6	16	-F	2	C	1338	.25				D
SACP	29	1332	1401	1340	N20	W77	.968	8447	23.8	29	-N		C		.53	1.18			
CAPS	29	1334	1347		N15	W77	.969	8447	23.8	13	-F	3							D
ONDR	29	1437	1444		S16	W90	1.001	8479	22.9	7	1F		V	1444			1.50		AG
SACP	29	1446	1529	1456	N21	E53	.799	8474	2.6	43	-F		C		.87	1.14			
MCMA	29	1454	1520	1458	N22	W12	.323	8461	28.7	26	-N		C	1458	1.03	1.10			E
MCMA	29	1545	1615	1548	N21	W11	.300	8461	28.8	30	-N		C	1548	.52	.50			E
LOCK	29	1645E	1735	1710	S22	W90	1.001	8479	22.9	50D	1F		C	1720	.60	2.20		10	
HUAN	29	1656	1701	1657	N08	W75	.962	8454	24.1	5	-F	2	C	1657	.21				D
LOCK	29	1810	1835	1820	N22	W12	.323	8461	28.9	25	-N		C	1820	.60	.70		10	
MCMA	29	1828	1910		N21	W10	.291	8461	29.0	42	-B		C	1828	.83	.90			E
HALE	29	1830E	1921	1839	N23	W10	.318	8461	29.0	51D	-B	2	P	1839	.36	.40			
LOCK	29	1850	1920	1908	N22	W12	.323	8461	28.9	30	-N		C	1908	1.40	1.50		10	
HALE	29	1950	2011	1953	N21	E53	.799	8474	2.8	21	-N	2	C	1953	.52	.90			
MCMA	29	1952	2000	1953	N20	E55	.817	8474	3.0	8	-N		C	1953	.41	.70			E
HALE	29	2021	2201	2043	N24	W16	.388	8461	28.6	100	2B	2	C	2043	5.16	5.60			EIXJ
MCMA	29	2023	2200	2035	N24	W16	.388	8459	28.6	97	1B		C	2035	1.96	2.10			F
MCMA	29							8461											
SACP	29	2028	2111D	2038	N25	W21	.452	8459	28.3	43D	1N		P		2.88	2.92			
MCMA	29	2128	2158	2130	N22	W12	.323	8461	29.0	30	-N		C	2130	.83	.90			E
LOCK	29	2058	2136	2120	N07	W90	1.000	8454	23.1	38	1F		C	2120	1.00	3.80		10	
LOCK	29	2214	0110	2235	N05	W90	1.000	8454	23.2	176	2N		C	2235	1.60	6.40		20	
SACP	29	2223	2250	2239	N06	W81	.986	8454	23.9	27	-F		C		1.09				
HALE	29	2230	2246	2235	N07	W83	.991	8454	23.7	16	1N	2	C	2235	.62				
HALE	29	2231	2258	2251	N06	W79	.980	8454	24.0	27	-N	2	C	2251	.31				
LOCK	29	2310	2329	2318	N07	W90	1.000	8454	23.2	19	1F		C	2318	.80	3.20		10	
LOCK	29	2351E	2351D	2351	N05	W90	1.000	8454	23.2		2N		C	2351	1.60	6.40		20	
HALE	30	0120	0134	0122	N06	W77	.972	8454	24.3	14	-N	1	C	0122	.21				
HALE	30	0212	0258	0236	N12	W28	.470	8461	28.0	46	1B	1	C	0236	4.13	4.70			FIL
VORO	30	0231E	0242	0235	N24	W23	.466	8461	28.4	11D	2F		C	0235	5.50	6.22		50	FHJ
HALE	30	0235	0258	0239	N25	W17	.409	8461	28.8	23	-N	1	C	0239	.83	.90			
MITK	30	0231	0257	0237	N22	W27	.499	8459	28.1	26	1N		C	0237	3.71	4.20			F
MANI	30	0233	0243	0236	N25	W30	.556	8459	27.9	10	-N	1		0236	.52	.63			
HALE	30	0248	0312	0253	N30	W26	.551	8459	28.2	24	-B	1	C	0253	.72	.90			
ISTA	30	0855	0905		N06	W90	1.000	8454	23.6	10	1								
ATHN	30	1131E	1141		N23	W20	.421	8461	29.0	10D	-N	2		1133	.72	.80	1.70		
BUCA	30	1131E	1144D	1135	N26	W18	.430	8461	29.1	13D	-N		C	1135	1.07	1.10			
CAPS	30	1132	1137		N24	W19	.420	8461	29.1	5	-B	2		1135	1.50	1.60		198	CE
ATHN	30	1143E	1146		N08	W90	1.000	8454	23.7	3D	-F	2		1143	.33				
MCMA	30	1347	1417	1353	N22	W27	.499	8461	28.5	30	-N		C	1353	1.55	1.70			F
CAPS	30	1352	1413		N21	W26	.480	8461	28.6	21	-N	2		1402	.40	.50		176	
MCMA	30	1450	1546	1458	N22	W27	.499	8461	28.6	56	1B		C	1458	2.89	3.20			FL
ATHN	30	1450	1602	1458	N20	W27	.487	8461	28.6	72	2N	2		1458	6.27	7.00	1.85		
HUAN	30	1451	1557	1456	N21	W25	.467	8461	28.7	66	1N	2	C	1456	1.86	1.85			EH
HUAN	30			1547										1547	.74	.77			
SACP	30	1451	1621	1512	N21	W27	.493	8461	28.6	90	2N		C		9.95	10.26			
MEUD	30	1500	1500D		N11	W25	.422	8461	28.8		2N				5.05	5.50			
LOCK	30	1525E		1525U	N21	W28	.506	8461	28.5		2N		C	1525	5.00	6.00		20	
LOCK	30	1545	1605	1551	N28	W30	.576	8461	28.4	20	1N		C	1551	2.30	2.70		20	
SACP	30	1545	1607	1548	N26	W26	.517	8461	28.7	22	2B		C		5.19	5.40			
MCMA	30	1546	1615	1548	N26	W26	.517	8461	28.7	29	1B		C						FL

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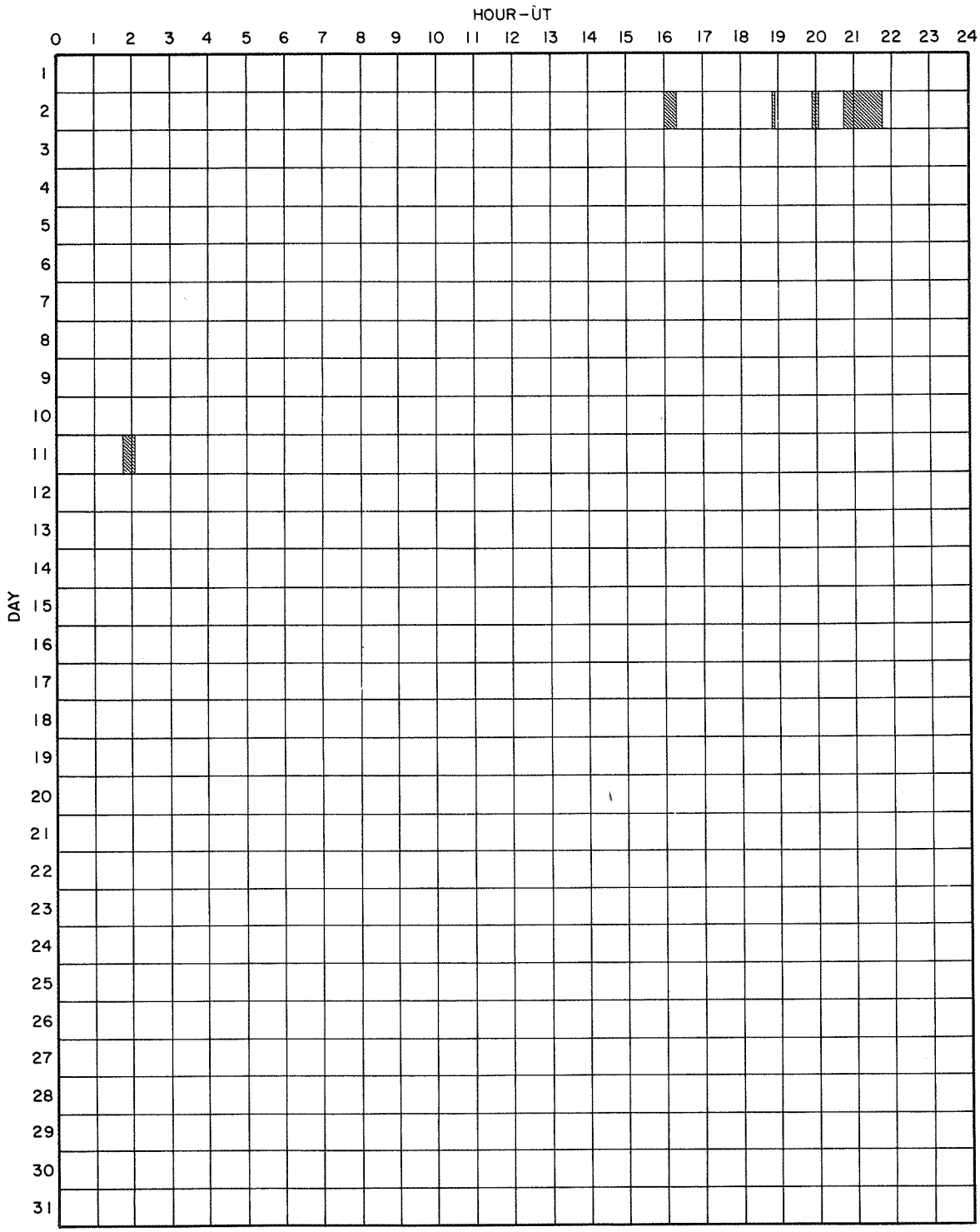
OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 AUG	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
ATHN	30	1546E	1600		N09	W90	1.000	8454	23.9	14D	-B	2		1547	.99		2.00		
LOCK	30	1850	1908	1900	N27	W28	.547	8461	28.7	18	-F		C	1900	.70	.80		10	
HALE	30	1949	1956	1952	N26	W24	.494	8461	29.0	7	-N	1	C	1952	.21	.20			
MCMA	30	2017	2032	2020	N22	W27	.499	8461	28.8	15	-N		C	2020	.46	.50			EH
HALE	30	2017	2035	2019	N23	W22	.445	8461	29.2	18	-N	1	C	2035	.36	.40			
HALE	30	2151	2158D	2153	N25	W25	.497	8461	29.0	7D	-N	1	P	2153	.26	.30			
MITK	31	0002E	0021D		N22	W30	.537	8461	28.8	19D	1N		P	0020	3.09	3.80			F
HALE	31	0036	0123	0059	N22	W29	.525	8461	28.8	47	1B	1	C	0059	2.06	2.40			TFKJ
SIBE	31	0037	0126	0109	N23	W30	.543	8461	28.8	49	2N		C	0109	6.45	8.40		142	F
LOCK	31	0038	0118D	0113	N20	W31	.540	8461	28.7	40D	2N		C	0113	7.20	8.60		20	
CULG	31	0059E	0119D	0111	N20	W30	.527	8461	28.8	20D	2B		P	0111	6.70	7.47			
MANI	31	0112	0347		N20	W30	.527	8461	28.8	155	2B	1		0114	5.00	5.90			
MANI	31			0240										0240	4.13	4.90			
IKOM	31	0115	0133D		N22	W28	.512	8461	29.0	18D	1N		V	0117	3.09	3.60		115	F
MITK	31	0130E	0154D		N21	W33	.570	8461	28.6	24D	1N		C	0131	3.09	3.80			F
SIBE	31	0154	0325D	0211	N23	W29	.531	8461	28.9	91D	1N		C	0211	3.41	4.50		84	E
HALE	31	0155	0235	0210	N23	W29	.531	8461	28.9	40	-B	1	C	0210	1.03	1.20			TKJ
IKOM	31	0200E	0305		N22	W28	.512	8461	29.0	65D	1N		V	0247	2.89	3.30	1.38	125	F
HALE	31	0226	0308	0229	N21	E36	.608	8474	2.8	422	-F	1	C	0229	.31	.40			
TACH	31	0250E	0435	0252	N22	W32	.562	8461	28.7	105D	2N		C	0252	5.93	7.10	2.60	96	EZ
TACH	31			0352															
HALE	31	0255	0420D	0256	N26	W27	.528	8461	29.1	85D	-N	1	C	0256	.21	.20			T
MITK	31	0301E	0348D		N23	W26	.494	8461	29.2	47D	1N		C	0324	1.96	2.30			
MITK	31	0339E	0348D		N21	W30	.532	8461	28.9	9D	2F		C	0344	4.33	5.20			F
MANI	31	0348	0421	0355	N22	W30	.537	8461	28.9	33	1N	1		0355	3.61	4.30			
HALE	31	0349	0420D	0353	N22	W31	.550	8461	28.8	31D	-B	1	C	0353	1.44	1.70			TKIF
ATHN	31	0550E	0559D	0552	N25	W52	.795	8459	27.3	9D	-N	2		0552	.78	1.50			
ATHN	31	0604E	0613	0607	N22	W58	.845	8459	26.9	9D	-N	2		0607	.85	1.70			
KIEV	31	0604E	0620D		N27	W32	.591	8461	28.9	16D	1N		P	0604	3.09	4.00		65	EI
KAND	31	0736	1405		N22	W33	.575	8461	28.8	389	1N			0817		6.00			
ARCE	31	0938	1000	0951	N21	W37	.620	8461	28.6	22	-N		C	0951	.81	1.05			
ATHN	31	0946E	1002D	0947	N22	W39	.648	8461	28.5	16D	-N	2		0947	.99	1.30			
KHAR	31	0948E	1005D		N23	W38	.640	8461	28.6	17D	1F		V	0948			2.00		DO
CAPS	31	0952	1010		N23	W35	.604	8461	28.8	18	-B	2		0953	.80	1.00		216	E
BUCA	31	0956E	1255D		N22	W37	.624	8461	28.6	179D	-N		P		1.16	1.50			BE
BUCA	31	0956E	1327D		N26	W04	.329	8467	31.1	211D	-N		P		1.34	1.40			EG
KAND	31	1015	1127		N25	E03	.310	8467	31.7	72	-N								
BUCA	31	1104E	1220D	1144	N21	W36	.608	8461	28.8	76D	1N		C	1144	2.68	3.40			E
BUCA	31	1125E	1140D	1132	N26	W31	.574	8461	29.2	15D	-N		C	1132	.38	.50			D
CAPS	31	1135	1215		N23	W36	.616	8461	28.8	40	1N	2		1144	2.00	2.50		175	GL
KIEV	31	1136E	1210D	1145	N26	W35	.619	8461	28.9	34D	1F		C	1145	5.16	6.00		65	I
ATHN	31	1146E	1211	1146	N19	W38	.626	8461	28.6	25D	1N	2		1146	3.30	4.40	1.60		
CAPS	31	1247	1335		N21	W36	.608	8461	28.8	48	-B	2		1256	.90	1.10		201	FK
MCMA	31	1249	1312	1254	N21	W39	.645	8461	28.6	23	-B		C	1254	.83	1.00			EK
HERS	31	1250	1304	1253	N21	W35	.595	8461	28.9	14	-N		P	1253	.72	.90			E
ATHN	31	1250	1304	1252	N19	W39	.638	8461	28.6	14	-N	2		1252	1.32	1.80	1.50		
BUCA	31	1250E	1324D	1258	N22	W36	.612	8461	28.8	34D	1N		C	1258	1.92	2.50			E
HUAN	31	1252	1309	1255	N22	W37	.624	8461	28.8	17	-F	2	C	1255	.57	.64			E
SACP	31	1307	1325	1315	N22	W39	.648	8461	28.6	18	1F		C		2.01	2.25			
HUAN	31	1310	1332	1318	N22	W40	.660	8461	28.5	22	-N	2	C	1318	.25	.28			D
MCMA	31	1312	1357	1316	N21	W41	.668	8461	28.5	45	-B		C						EK
MEUD	31	1314	1335	1320	N20	W38	.629	8461	28.7	21	1N			1320	2.89	3.80			
ATHN	31	1315	1324	1318	N20	W39	.641	8461	28.6	9	-N	2		1318	.99	1.30	1.70		
KIEV	31	1319E	1325D	1319	N26	W35	.619	8461	28.9	6D	2N		C	1319	7.22	9.00		70	I
LOCK	31	1540	1615	1600	N21	W31	.545	8461	29.3	35	-F		C	1600	.50	.60		10	
HUAN	31	1705	1708	1706	N21	W41	.668	8461	28.6	3	-F	2	C	1706	.21	.23			D
MCMA	31	1830	1848	1833	N26	W36	.631	8461	29.1	18	-B		C	1833	.52	.70			D
HUAN	31	1831	1841	1832	N26	W36	.631	8461	29.1	10	-N	2	C	1832	.31	.34			D
HALE	31	1831	1844	1832	N26	W36	.631	8461	29.1	13	-B	1	C	1832	.26	.30			T
SACP	31	1835E	2009	1917	N21	W39	.645	8461	28.8	94D	2F		C		6.90	7.70			
LOCK	31	1840	2000	1905	N21	W39	.645	8461	28.9	80	2B		C	1905	4.80	6.20		30	
HALE	31	1847	1910	1852	N24	W33	.585	8461	29.3	23	-N	1	C	1852	.72	.90			TJIF
HUAN	31	1849	1922	1902	N25	W33	.591	8461	29.3	33	1F	2	C	1902	.77	.84			
HUAN	31	1849	1922	1908	N20	W38	.629	8461	28.9	33				1908	2.11	2.32			
MCMA	31	1853	1908		N25	W36	.625	8461	29.1	15	1N		P	1905	1.55	2.10			E
HALE	31	1905	1946	1908	N20	W41	.666	8461	28.7	41	-N	1	C	1908	1.44	1.90			TFI
MCMA	31	2013	2029		N23	W41	.675	8461	28.8	16	-N		P	2014	.62	.80			E
HALE	31	2015	2027	2018	N21	W44	.703	8461	28.5	12	-N	1	C	2018	.31	.40			T
HALE	31	2035	2044	2038	N21	W44	.703	8461	28.6	9	-N	1	C	2038	.52	.70			T
HUAN	31	2037	2041	2038	N21	W42	.680	8461	28.7	4	-F	2	C	2038	.25	.29			D
HALE	31	2114	2130	2118	N20	W44	.701	8461	28.6	16	-N	1	C	2118	.72	1.00			T
HUAN	31	2117	2122	2118	N21	W43	.692	8461	28.7	5	-F	2	C	2118	.50	.58			
MCMA	31	2117	2125	2118	N23	W42	.686	8461	28.7	8	-N		C	2118	.62	.80			E

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

AUGUST 1966



Observatories included:

Abastumani	Capri-S (Swedish)	Huancayo	Kodaikanal	McMath-Hulbert	Tachkent
Arcetri	Catania	Ikomasan	Locarno	Mitaka	Tortosa
Arosa	Climax	Istanboul	Lockheed	Ondrejov	Voroshilov
Athenes	Culgoora	Kandilli	Manila	Sacramento Peak	Wendelstein
Bakou	Haleakala	Kharkov	Meudon	Siberie	Zürich
Bucaresti	Herstmonceux	Kiev			

SOLAR FLARES

ADDENDA

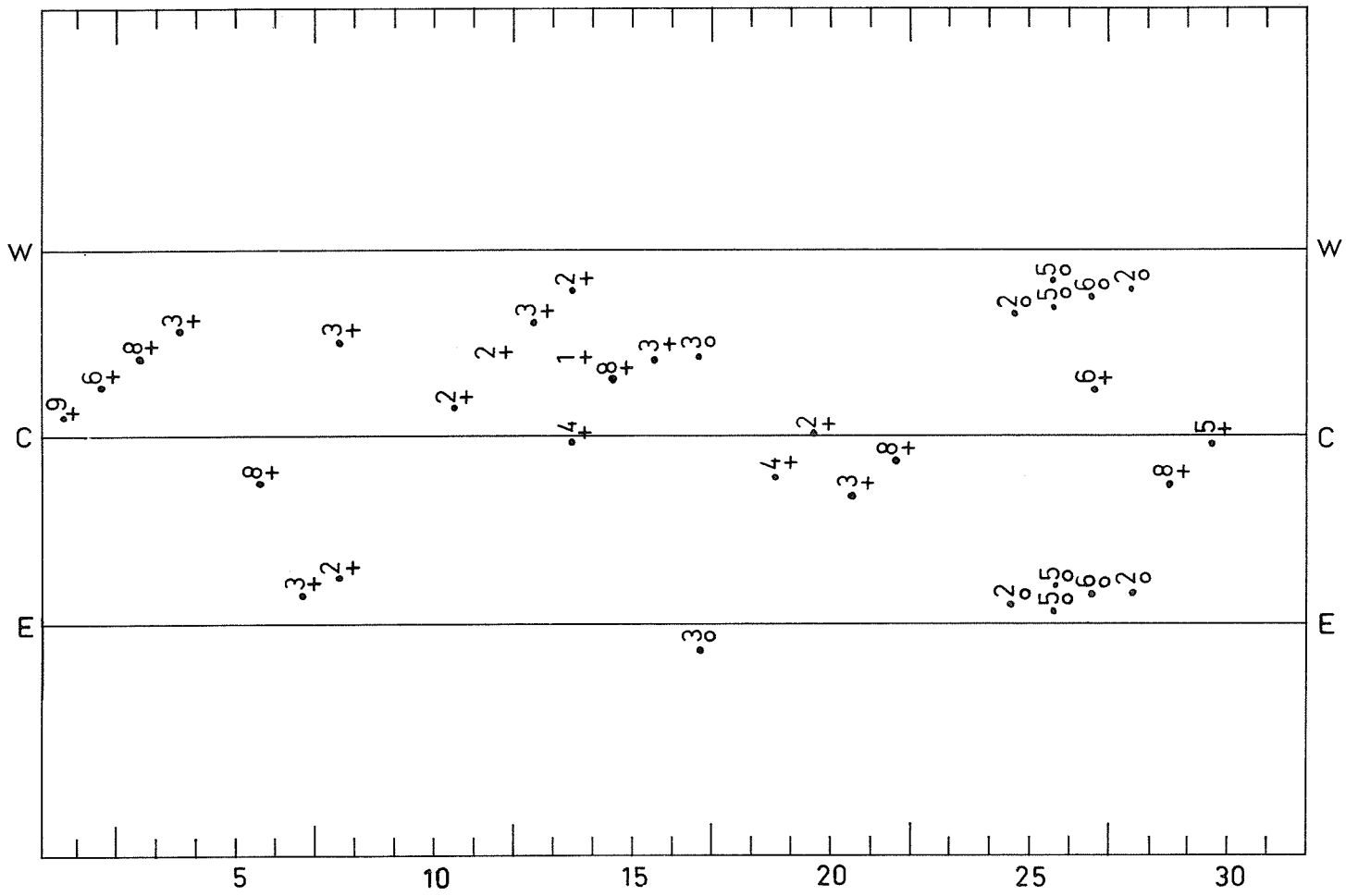
APRIL 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.	MEASUREMENTS					REMARKS
	DATE 1966 APR	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	01	0709	0730	0710	N27	E32	.715	8223	3.7	21	-B	2	0710	1.32	1.90	1.90		
ATHN	01	1411	1418	1413	N27	E26	.668	8223	3.5	7	-N	2	1413	.53	.70	1.50		
ATHN	01	1431E	1438D	1434	N25	E26	.649	8223	3.6	7D	-N	2	1438	.66	.70	1.50		
ATHN	02	0506	0525	0515	N27	E19	.619	8223	3.6	19	1N	2	0515	1.65	2.10	1.60		
ATHN	02	0714	0740	0726	N27	E18	.612	8223	3.7	26	1N	2	0726	1.65	2.10	1.60		
ATHN	02	0751	0800		N29	E18	.636	8223	3.7	9	-N	2	0752	.66	.80	1.40		
ATHN	02	0804	0845	0814	N27	E17	.606	8223	3.6	41	2F	2	0814	4.62	5.80	1.60		
ATHN	02	0940	0951	0943	N28	E17	.618	8223	3.7	11	-N	2	0943	.50	.60	1.60		
ATHN	02	1105E	1110	1105	N28	E07	.576	8223	3.0	5D	-N	2	1105	.66	.80	1.50		
ATHN	02	1133E	1221	1136	N26	E16	.588	8223	3.7	48D	2B	2	1136	4.62	5.70	2.00		
ATHN	02	1457	1515	1500	N28	E13	.598	8223	3.6	18	-N	2	1500	1.32	1.60	1.80		
ATHN	06	0435E	0452	0436	N28	W43	.807	8223	3.0	17D	-N	3	0436	.66	1.10	1.60		
ATHN	06	0458	0506	0500	N26	W25	.648	8223	4.3	8	-N	3	0500	.83	1.10	1.50		
ATHN	06	0543	0550	0544	N28	W43	.807	8223	3.0	7	-B	3	0544	.66	1.10	1.90		
ATHN	06	0553	0600	0555	N28	W43	.807	8223	3.0	7	-N	3	0555	.66	1.10	1.50		
ATHN	06	0935	0941	0938	N28	W44	.815	8223	3.1	6	-N	2	0938	.46	.80	1.70		
ATHN	06	1007	1017	1010	N26	W47	.827	8223	2.9	10	-F	2	1010	.33	.60			
ATHN	06	1151	1201	1155	N27	W35	.737	8223	3.9	10	-N	2	1155	.17	.20	1.70		
ATHN	06	1209	1235	1223	N26	W37	.746	8223	3.7	26	1N	2	1223	1.98	2.90	1.60		
ATHN	07	0621E	0624D	0621	N22	W05	.479	8240	6.9	3D	-N	1	0621	1.05	1.30			
ATHN	07	1235E	1302	1241	N26	W51	.857	8223	3.7	27D	1N	2	1241	1.32	2.60	1.70		
ATHN	08	0555E	0607	0556	N18	W22	.537	8240	6.6	12D	-N	3	0607	.50	.60	1.50		
ATHN	08	0621	0633	0624	N22	W18	.548	8240	6.9	12	-N	3	0624	.66	.80	1.50		
ATHN	08	0716E	0721	0716	N22	W20	.563	8240	6.8	5D	-N	3	0716	1.32	1.60	1.60		
ATHN	08	0731	0740	0733	N22	W19	.555	8240	6.9	9	-N	2	0733	.66	.80	1.50		
ATHN	08	0803E	0814	0804	N27	E46	.824	8254	11.8	11D	-N	2	0804	.99	1.70	1.40		
ATHN	09	0607	0614	0608	N22	W31	.661	8240	6.9	7	-B	2	0608	.66	.90	1.90		
ATHN	09	0619	0628	0622	N22	W31	.661	8240	6.9	9	-B	2	0622	.99	1.30	1.90		
ATHN	09	0643	0702	0650	N20	W35	.684	8240	6.7	19	-N	2	0650	.66	.90	1.60		
ATHN	09	0725E	0743D	0730	N22	W30	.651	8240	7.1	18D	1N	2	0731	1.65	2.20	1.70		
ATHN	09	0832	0855		N22	W34	.689	8240	6.8	23	1F	2	0840	2.64	3.50	1.45		
ATHN	10	1228E	1248D		N21	W48	.812	8240	6.9	20D	1N	1	1228	2.64	4.80			
ATHN	11	1001E	1034D		N22	W59	.900	8240	7.0	33D	2B	1	1006	2.44	5.60	2.00		
ATHN	11	1231	1320	1239	N22	W61	.913	8240	6.9	49	2B	2	1239	2.31	5.70	2.00		
ATHN	11	1604E	1620D	1606	N22	W63	.925	8240	6.9	16D	1N	1	1606	1.32	3.20			
ATHN	12	0624E	0643	0626	N22	W76	.983	8240	6.6	19D	-B	1	0626	.33		2.00		
ATHN	12	0647	0657	0654	N22	W75	.980	8240	6.7	10	-B	1	0654	.33		2.00		
ATHN	12	0727	0732	0729	N23	W72	.970	8240	6.9	5	-N	2	0729	.33		1.70		
ATHN	12	1106E	1114	1107	N22	W72	.969	8240	7.1	8D	-N	2	1107	.33		1.60		
ATHN	12	1354E	1403	1355	N22	W75	.980	8240	7.0	9D	-B	1	1355	.33		2.00		
ATHN	13	0707E	0717	0710	N22	W90	1.001	8240	6.5	10D	-B	2	0710	.17		2.00		
ATHN	14	1158	1213	1205	N23	E55	.874	8262	18.6	15	-N	2	1205	.66	1.30	1.50		
ATHN	14	1249	1313	1255	N24	E53	.862	8262	18.5	24	1N	2	1255	1.98	3.90	1.60		
ATHN	15	0955E	1106	1004	N28	E41	.787	8262	18.5	71D	2N	1	1004	4.13	6.00	1.90		
ATHN	17	0842E	0857	0843	N21	E12	.484	8262	18.3	15D	-B	2	0843	1.59	1.80	2.00		
ATHN	17	1432	1505	1440	N19	E10	.444	8262	18.4	33	1N	2	1440	1.98	2.20	1.50		
ATHN	18	0513E	0532		N23	E09	.496	8262	18.9	19D	1N	2	0515	1.98	2.20	1.60		
ATHN	18	0817	0833	0820	N23	E07	.488	8262	18.9	16	-N	2	0820	1.32	1.50	1.60		
ATHN	18	0852	0857	0853	N21	E12	.483	8262	19.3	5	-N	2	0853	.50	.50	1.50		
ATHN	18	1141	1206	1145	N21	E01	.445	8262	18.6	25	1N	2	1145	1.98	2.20	1.50		
ATHN	18	1228E	1303	1232	N22	E01	.460	8262	18.6	35D	1N	2	1232	2.64	2.90	1.60		
ATHN	20	0401E	0535		N19	E50	.818	8272	23.9	94D	1B	2	0430	2.64	4.60	1.90		
ATHN	20	0530	0548	0535	N23	W20	.564	8262	18.7	18	-N	2	0535	.99	1.20	1.50		
ATHN	20	0555	0605	0600	N18	E51	.823	8272	24.1	10	-N	2	0600	.50	.90	1.60		
ATHN	20	0753	0805	0800	N18	E48	.796	8272	23.9	12	-N	2	0800	.66	1.10	1.60		
ATHN	20	0913	0930	0920	N23	W21	.572	8262	18.8	17	-N	2	0920	1.32	1.60	1.60		
ATHN	21	0908	0924	0913	N22	W32	.662	8262	19.0	16	-N	1	0913	1.32	2.00	1.60		
ATHN	22	0718E	0732	0721	N18	E22	.525	8272	24.0	14D	1N	1	0721	1.98	2.30	1.50		
ATHN	23	1247E	1250		N18	E08	.411	8272	24.1	3D	-N	2	1248	.66	.70			
ATHN	24	0609E	0614		N29	W46	.826	8275	20.8	5D	-N	2	0610	.50	.90			
ATHN	24	1411E	1417D	1412	N29	W53	.875	8275	20.6	6D	-B	1	1412	.83	1.70	.20		
ATHN	28	0752	0759	0753	N18	W55	.854	8272	24.2	7	-N	2	0753	.17	.30	1.50		
ATHN	28	0829E	0841	0830	N18	W58	.878	8272	24.0	12D	-N	2	0830	.99	1.90	1.70		
ATHN	28	1405E	1418	1407	N18	W60	.893	8272	24.1	13D	1N	1	1407	.99	2.10	1.60		
ATHN	29	0920	0931	0921	N29	E12	.578	8278	30.3	11	-N	2	0921	.50	.60	1.40		
ATHN	29	1205	1217	1207	N27	E10	.542	8278	30.3	12	-N	2	1207	.60	.70	1.50		
ATHN	29	1317E	1331	1317	N20	E58	.882	8284	3.9	14D	1N	2	1317	1.32	2.70	1.50		
ATHN	30	1049	1105	1051	S26	W00	.370	8282	30.5	16	-N	2	1051	.66	.70	1.50		

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

NOVEMBER 1966

Nançay 408 Mc/s



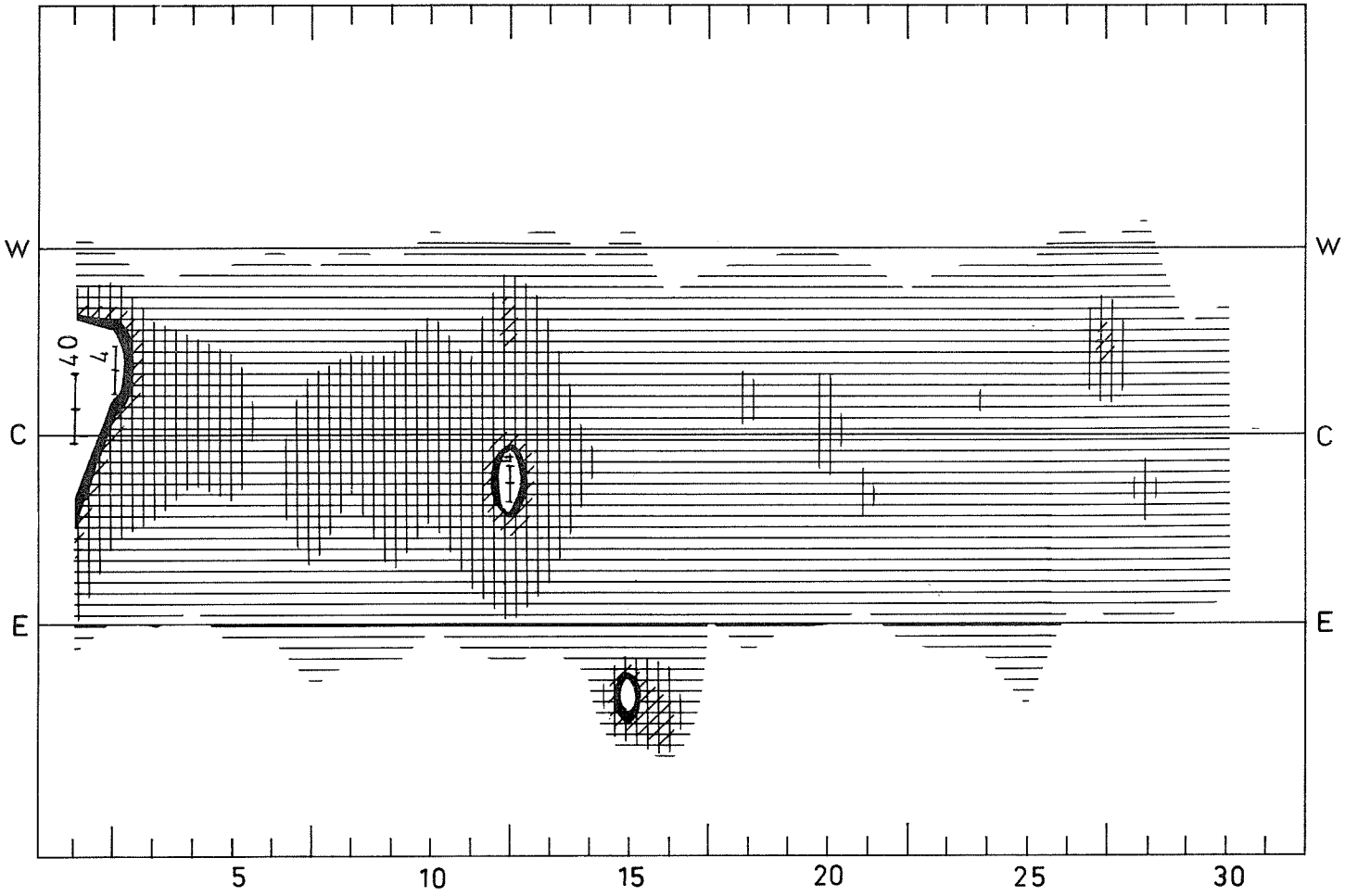
PAI

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

NOVEMBER 1966

Nançay

169 Mc/s



SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

NOVEMBER 1966

University of Colorado

7.6-41 Mc/s

Date Nov 1966	Bursts				Date Nov 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
1 Nov	continuum	1500-1908	1-	26-41	6 Nov	III	1543:45-1544	3	25-41
	III	1515:30-1515:45	1	28-40		III	1544-1544:15	2	25-41
	III	1816:45-1817	1+	22-38		III	1544:30-1544:45	2	25-41
	III	1817:15-1817:45	2	20-41		III	1547:15-1547:30	1+	25-33
	III	1836:15-1836:30	1-	22-39		III	1609:45-1610	1-	26-38
	III	2004:15-2004:30	1	24-37		III	1614:15-1614:30	1-	28-41
	continuum	2010-2030	1	24-41		III	1736:30-1736:45	1	22-40
	III	2011-2011:15	1+	25-41		III	1832-1832:15	1	23-35
	III	2012-2012:15	1+	22-41		III	1838-1838:15	1	22-41
2 Nov	continuum	b1342-1534	1	27-41		III	1932:45-1933:15	1+	22-39
	III	1402:45-1403	1+	25-35		III	1948:15-1948:30	2	23-41
	III	1617:30-1617:45	2	26-41		III	1948:30-1949	2	23-41
	III	1707-1707:30	2	21-39		III	1951:15-1951:45	3	20-41
	III	1720:15-1720:45	2	24-40		III	1956-1956:15	1-	28-41
	III	1721:30-1721:45	2	26-36		III	2045-2045:15	1-	30-39
	III	1722:15-1723	2	16-41		III	2053:15-2053:30	1-	30-39
	III	1723:15-1724:30	2	16-41		III	2053:45-2054	1	28-39
	III	1726:30-1726:45	1+	26-34		III	2055-2055:15	1	28-38
	continuum	1736-1933	1+	25-41		III	2055:15-2055:30	1	27-38
	III	1743:30-1743:45	2	26-39		III	2056:45-2057	1+	22-40
	III	1746-1746:30	2	25-40		III	2104-2104:15	2	22-41
	III	1746:45-1747:30	2	26-41		III	2104:15-2104:30	2	23-41
	III	1747:45-1748:15	2	25-41		III	2104:30-2104:45	2	23-41
	III	2119-2119:15	1	27-35		III	2105-2105:15	2	25-41
	III	2203-2203:30	2	27-40		III	2105:30-2105:45	3	23-41
	no observ.	2306-2316				III	2107:30-2108	3	21-41
3 Nov	III	1530:30-1530:45	1	23-41		III	2119:45-2121	3	22-41
	III	1531-1531:15	1	26-40		III	2127-2127:15	1+	22-40
	III	1531:15-1531:30	1	26-40		III	2128:30-2130:30	3	22-41
	III	1902:45-1905	3	16-41		III	2131-2131:30	3	24-41
	continuum	1905-1911	1	26-41		III	2132:45-2133	2	26-41
4 Nov	III	1437:30-1437:45	1	24-40		III	2153-2153:15	1-	32-38
	III	1536:15-1536:30	1-	31-41		III	2154:15-2154:30	1-	26-35
	III	1939:30-1940	1-	32-41		III	2158-2158:15	1	28-40
5 Nov	III	1606:45-1607	1+	24-39		III	2159:30-2159:45	1-	28-34
	III	1630:30-1630:45	1+	31-41		III	2206:30-2206:45	1	28-38
	III	1720:45-1721:15	1+	26-34		III	2208-2208:30	1+	28-41
	III	2008-2008:15	1+	27-41		III	2216:30-2216:45	1+	29-41
	III	2008:15-2008:45	1+	29-41		III	2216:45-2217	2	26-40
	III	2036-2036:15	1+	24-41		III	2217:15-2217:30	2	30-40
	III	2144:45-2145:15	2	23-41		III	2217:45-2218	3	24-41
	III	2145:30-2145:45	2	26-41		III	2227:45-2228	1+	27-40
	III	2145:45-2146:15	2	30-41		III	2246:45-2248	3	25-41
	III	2148:45-2149	1+	28-39		III	2254-2255:15	3	26-41
	III	2149-2149:30	2	28-41		III	2257:30-2257:45	3	27-40
	III	2157-2158	3	22-41		III	2301-2301:15	2	28-41
	III	2200:30-2201	1+	26-38		III	2322-2322:15	1-	28-37
	III	2201:15-2201:30	2	26-40	7 Nov	III	1551-1551:15	1-	30-38
	III	2202:45-2203:15	1+	24-38		III	1701:30-1701:45	1-	28-40
	III	2248:15-2248:30	1	30-36		III	1904-1904:30	1	22-38
	III	2248:45-2249	2	27-37		III	2209:45-2210	1+	24-39
	III	2323:30-2324	1+	30-40		III	2210-2210:15	1	31-39
6 Nov	III	1446:45-1447:15	1	31-41		III	2210:15-2210:30	1-	28-39
	III	1543-1543:15	3	20-41		III	2218:30-2219	1	26-39
	III	1543:30-1543:45	3	20-41		III	2325:30-2325:45	1-	25-40

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

NOVEMBER 1966

University of Colorado

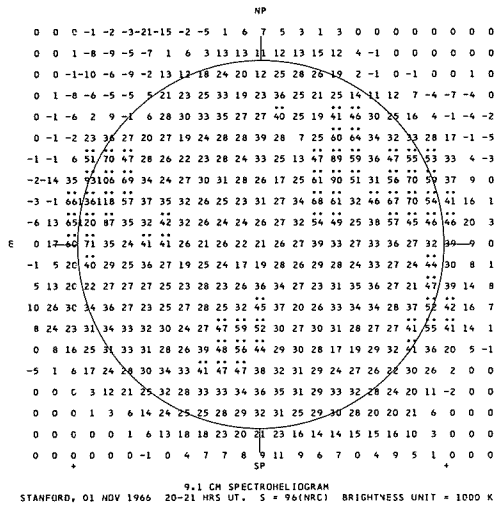
7.6-41 Mc/s

Date Nov 1966	Bursts				Date Nov 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
8 Nov	III	1533-1533:45	3	21-41	19 Nov	III	1604:15-1604:45	1+	34-40
	III	2010-2010:45	2	22-38	22 Nov	II	d 1903:30-1914:30	2	19-40
	III	2049-2049:30	1	28-39		IV	1920:30-2036:15	1-	35-40
	III	2123:30-2123:45	1-	24-35		III	2250:30-2250:45	1-	26-35
9 Nov	III	1856:45-1857:30	2	23-41	24 Nov	III	1524:30-1524:45	1	29-41
	III	1916-1916:30	2	22-41		III	2211:30-2211:45	2	26-40
	III	1916:30-1917	2	22-41		III	2211:45-2212	2	24-41
	III	1917:15-1917:30	2	28-40		III	2212-2214:15	3	23-41
	III	1935:45-1936:15	1	32-41		III	2214:15-2214:30	3	23-40
	III	2111:30-2111:45	1-	32-40	25 Nov	III	2011:15-2011:30	1+	24-38
	III	2215:30-2215:45	1+	26-40		III	2011:30-2011:45	1	27-38
	III	2230:45-2231	1	28-35		III	2123:30-2123:45	1+	22-38
10 Nov	III	2142:15-2142:30	1	23-40		III	2235-2235:30	1+	28-38
11 Nov	III	1409-1409:15	2	25-41		III	2235:30-2235:45	2	25-41
	III	1633:45-1634	2	19-41		III	2236:45-2237	1+	34-38
	III	1650-1650:30	2	20-41	26 Nov	III	2028:45-2029:15	1	24-36
	III	1751:30-1751:45	1	28-40	27 Nov	III	1522-1523	1+	27-39
	III	1959:30-1959:45	1+	26-41		III	1559:30-1559:45	1+	34-40
	III	2117:30-2117:45	1	28-39		continuum	1604:30-1652	2	28-41
	III	2236:45-2237	1-	31-39		III	1604:30-1604:45	1+	29-40
	III	2238-2238:15	1-	28-36					
	III	2253:30-2253:45	3	23-41		III	1631:15-1631:30	2	29-37
	III	2253:45-2254:15	3	25-41		III	1632:30-1633	2	28-41
	III	2254:15-2254:30	2	30-41		III	1633:45-1634	3	30-41
	III	2303-2303:15	2	27-41		III	1712:45-1713:30	1+	22-39
	continuum	2303:15-2320	1-	28-41		continuum	1823-1831	2	22-41
	III	2311-2311:15	1+	28-37		III	1824:30-1825	3	16-41
	III	2313:30-2313:45	1+	30-37		III	1825-1825:15	3	16-41
12 Nov	III	1603:30-1603:45	1	30-37		III	1826:15-1826:30	3	22-40
	III	1959:15-2000:15	2	22-41		continuum	2013:45-2044	1	26-41
	III	2000:15-2000:30	2	31-37		III	2033:15-2033:30	2	24-39
	III	2215-2215:45	2	26-41		III	2052:30-2052:45	1-	32-40
	III	2216-2216:15	1+	26-35		III	2140:15-2140:30	1-	30-41
13 Nov	III	1509:45-1510	1-	29-40		III	2141:15-2141:30	2	27-41
	III	1515:30-1515:45	1-	28-41	28 Nov	III	1956-1956:15	1-	26-39
	III	1619:45-1620	1	28-41					
	III	1638:30-1638:45	1	29-38		III	2157-2157:15	1-	20-31
	III	1639:15-1639:30	1	27-41	29 Nov	III	1542:45-1543	1+	28-40
	III	1725:15-1725:30	1-	28-41		III	1708-1708:30	3	22-41
	III	2136-2136:15	1+	23-41		III	1714:30-1715	3	22-41
	III	2204-2204:15	1-	28-38		III	1715-1715:15	2	26-41
14 Nov	III	1515:30-1515:45	1	28-39		III	1715:15-1715:30	2	24-38
	III	1515:45-1516	1	28-39		III	2021:30-2021:45	1+	26-35
	III	1516-1516:15	1+	30-40	30 Nov	III	1630:15-1630:30	2	21-41
	III	1900:30-1900:45	1	27-40		III	1631-1631:15	2	22-39
15 Nov	no observ.	1700-2300				III	1631:30-1631:45	2	22-39
	III	2301:30-2301:45	1	26-39		III	1631:45-1632	1+	22-38
16 Nov	III	1753:30-1753:45	1+	24-38					
17 Nov	III	1934:45-1935	1-	31-41					
	III	2035:45-2036:30	3	23-41					
	III	2108-2108:15	1+	26-41					
	III	2156:30-2156:45	1-	27-41					
	III	2157-2157:15	1	27-41					
	III	2157:30-2157:45	1+	24-41					
18 Nov	III	1606:15-1606:30	1+	27-38					

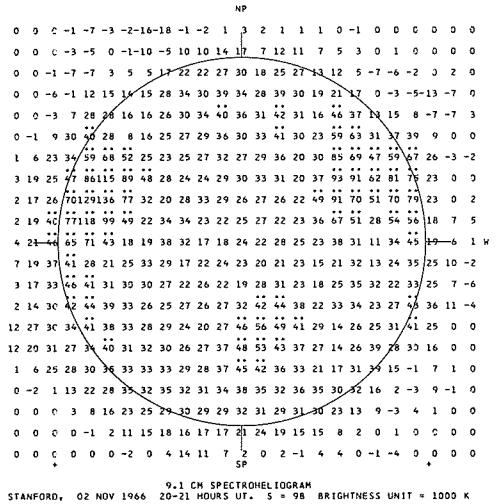
d - harmonic structure

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

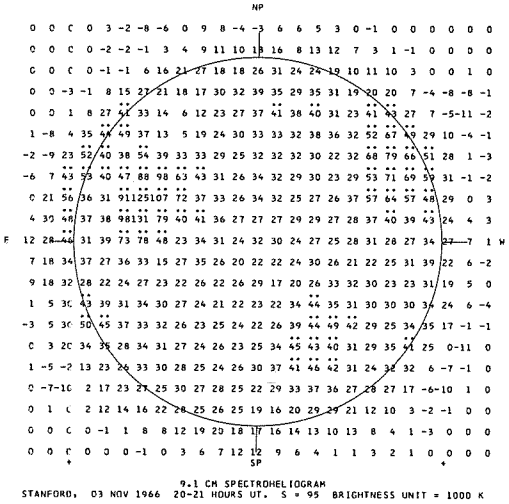
STANFORD — **NOVEMBER 1966** — **9.1 cm**



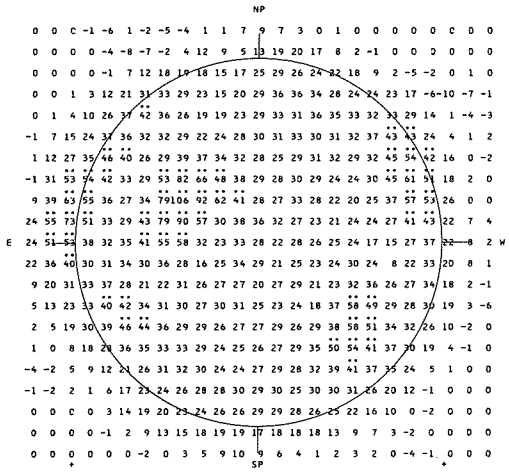
9.1 CM SPECTROHELIOGRAM
STANFORD, 01 NOV 1966 20-21 HRS UT. S = 96(NRC) BRIGHTNESS UNIT = 1000 K



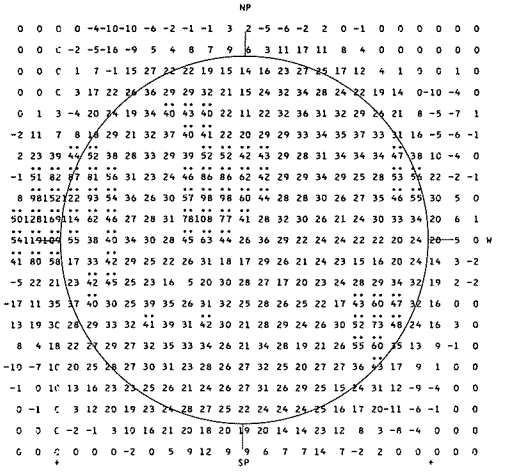
9.1 CM SPECTROHELIOGRAM
STANFORD, 02 NOV 1966 20-21 HOURS UT. S = 98 BRIGHTNESS UNIT = 1000 K



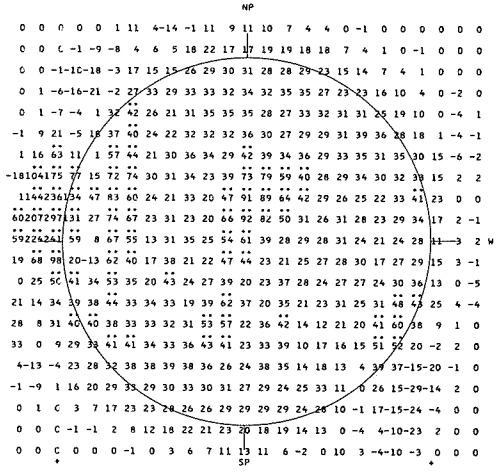
9.1 CM SPECTROHELIOGRAM
STANFORD, 03 NOV 1966 20-21 HOURS UT. S = 95 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 04 NOV 1966 20-21 HOURS UT. S = 93 BRIGHTNESS UNIT = 1000 K



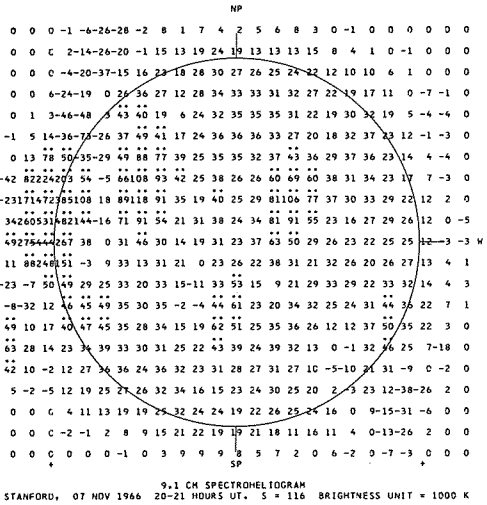
9.1 CM SPECTROHELIOGRAM
STANFORD, 05 NOV 1966 20-21 HOURS UT. S = 100 BRIGHTNESS UNIT = 1000 K



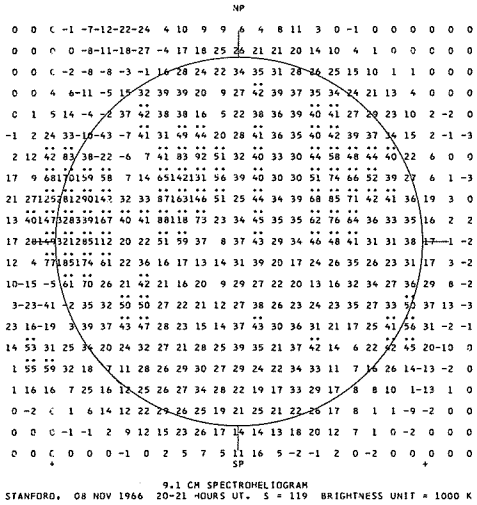
9.1 CM SPECTROHELIOGRAM
STANFORD, 06 NOV 1966 20-21 HOURS UT. S = 107 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

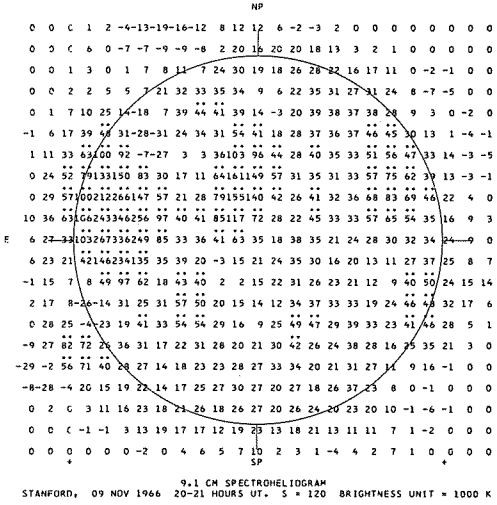
STANFORD — **NOVEMBER 1966** — **9.1 cm**



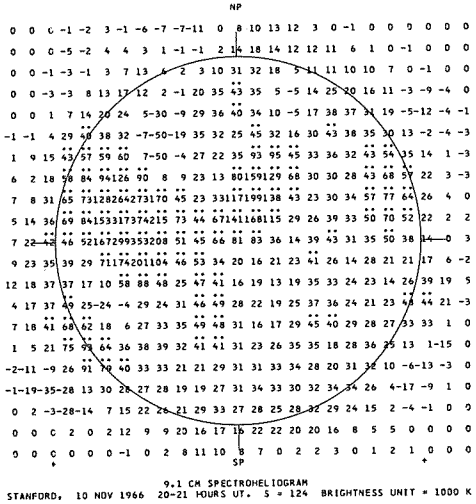
9.1 CM SPECTROHELIOGRAM
STANFORD, 07 NOV 1966 20-21 HOURS UT. S = 116 BRIGHTNESS UNIT = 1000 K



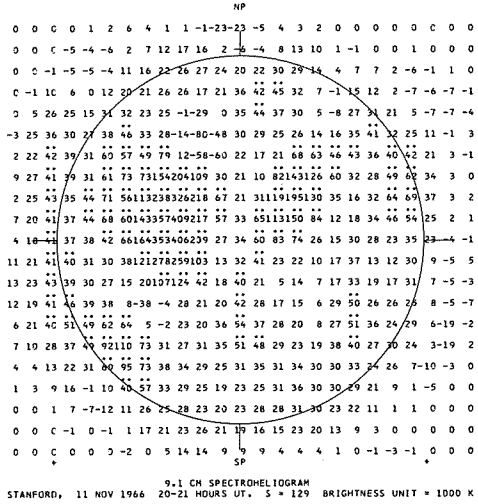
9.1 CM SPECTROHELIOGRAM
STANFORD, 08 NOV 1966 20-21 HOURS UT. S = 119 BRIGHTNESS UNIT = 1000 K



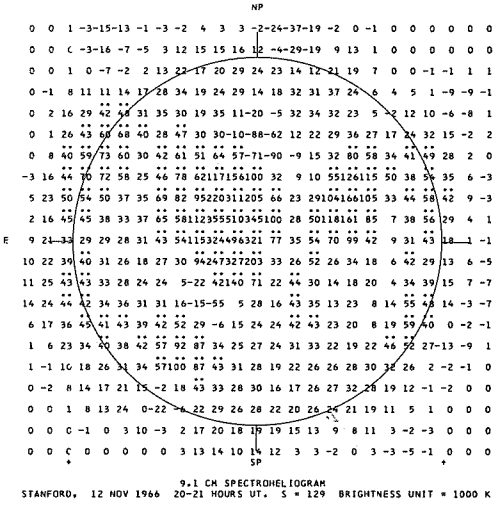
9.1 CM SPECTROHELIOGRAM
STANFORD, 09 NOV 1966 20-21 HOURS UT. S = 120 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 10 NOV 1966 20-21 HOURS UT. S = 124 BRIGHTNESS UNIT = 1000 K



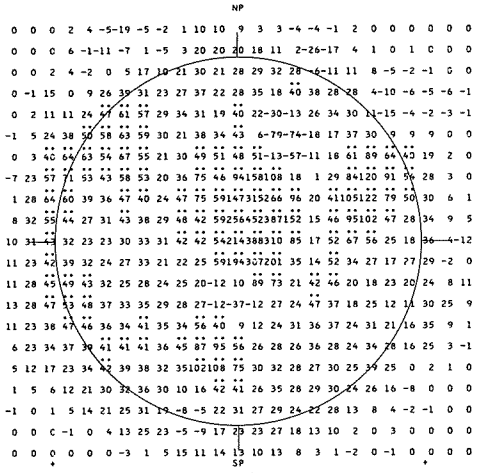
9.1 CM SPECTROHELIOGRAM
STANFORD, 11 NOV 1966 20-21 HOURS UT. S = 129 BRIGHTNESS UNIT = 1000 K



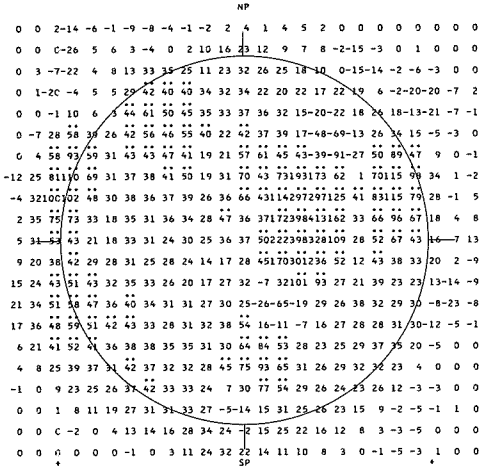
9.1 CM SPECTROHELIOGRAM
STANFORD, 12 NOV 1966 20-21 HOURS UT. S = 129 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD — **NOVEMBER 1966** — **9.1 cm**



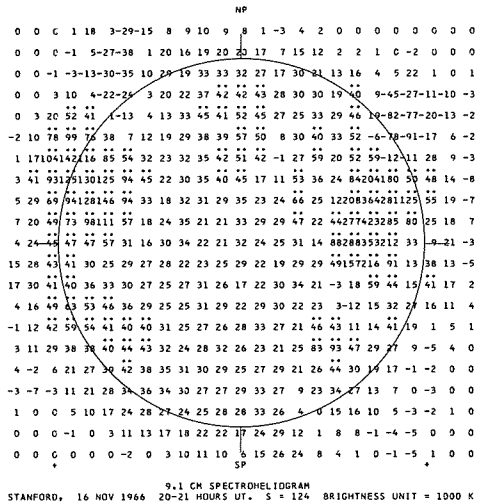
9.1 CM SPECTROHELIOGRAM
STANFORD, 13 NOV 1966 20-21 HOURS UT. S = 129 BRIGHTNESS UNIT = 1000 K



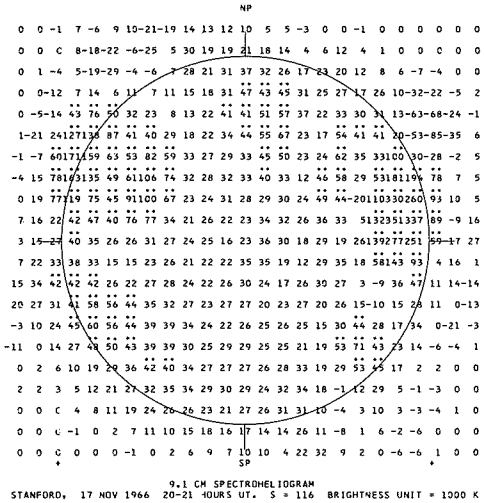
9.1 CM SPECTROHELIOGRAM
STANFORD, 14 NOV 1966 20-21 HOURS UT. S = 127 BRIGHTNESS UNIT = 1000 K

NO DATA

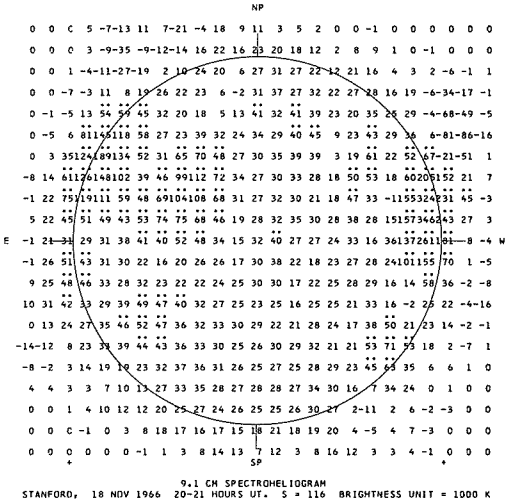
1966 November 15



9.1 CM SPECTROHELIOGRAM
STANFORD, 16 NOV 1966 20-21 HOURS UT. S = 124 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 17 NOV 1966 20-21 HOURS UT. S = 116 BRIGHTNESS UNIT = 1000 K



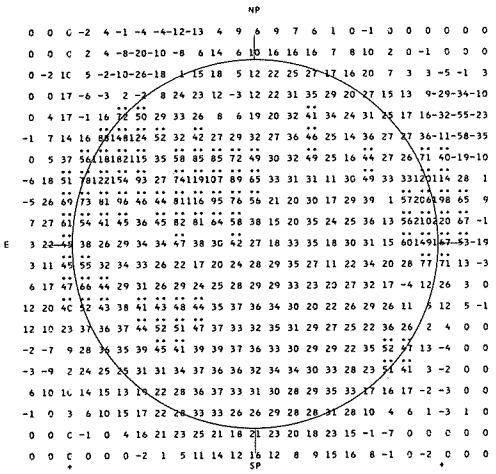
9.1 CM SPECTROHELIOGRAM
STANFORD, 18 NOV 1966 20-21 HOURS UT. S = 116 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

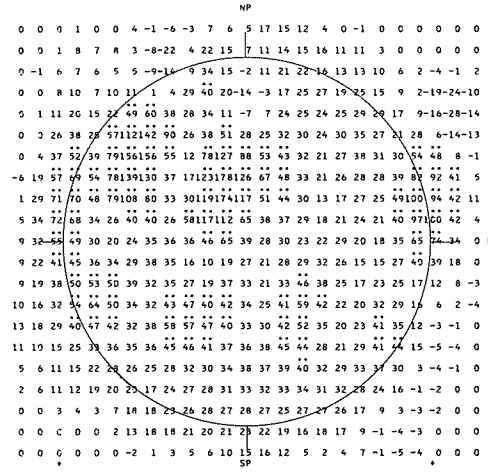
STANFORD

NOVEMBER 1966

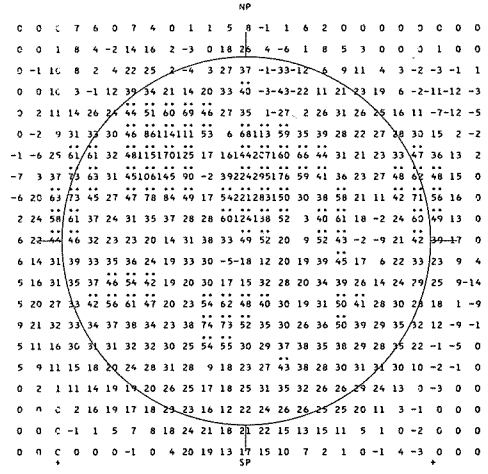
9.1 cm



9.1 CM SPECTROHELIOGRAM
STANFORD, 19 NOV 1966 20-21 HOURS UT. S = 114 BRIGHTNESS UNIT = 1000 K



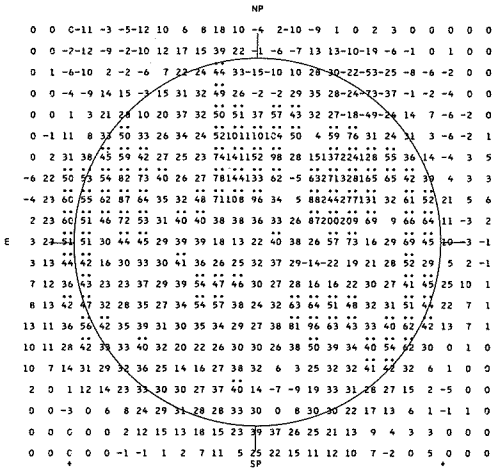
9.1 CM SPECTROHELIOGRAM
STANFORD, 20 NOV 1966 20-21 HOURS UT. S = 114 BRIGHTNESS UNIT = 1000 K



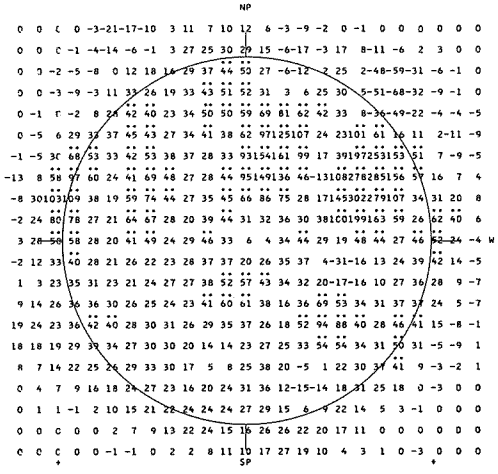
9.1 CM SPECTROHELIOGRAM
STANFORD, 21 NOV 1966 20-21 HOURS UT. S = 113 BRIGHTNESS UNIT = 1000 K

NO DATA

1966 November 22



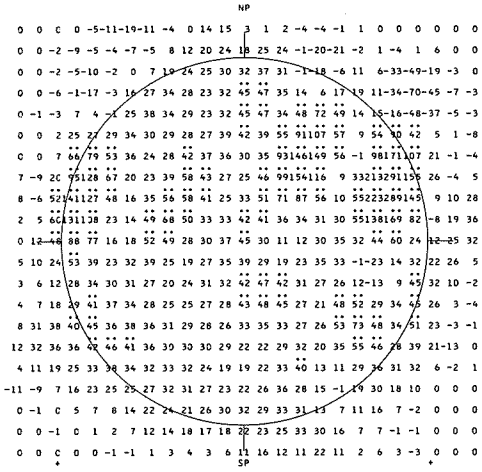
9.1 CM SPECTROHELIOGRAM
STANFORD, 23 NOV 1966 20-21 HOURS UT. S = 118 BRIGHTNESS UNIT = 1000 K



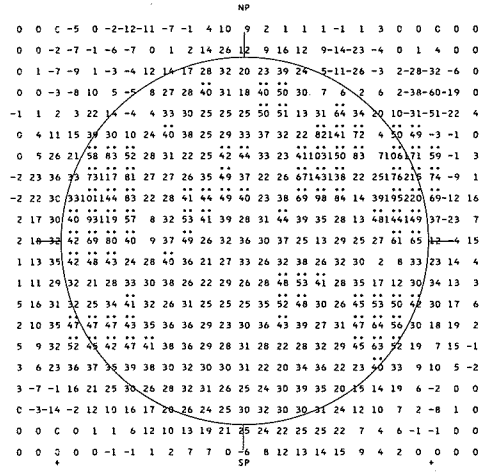
9.1 CM SPECTROHELIOGRAM
STANFORD, 24 NOV 1966 20-21 HOURS UT. S = 117 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

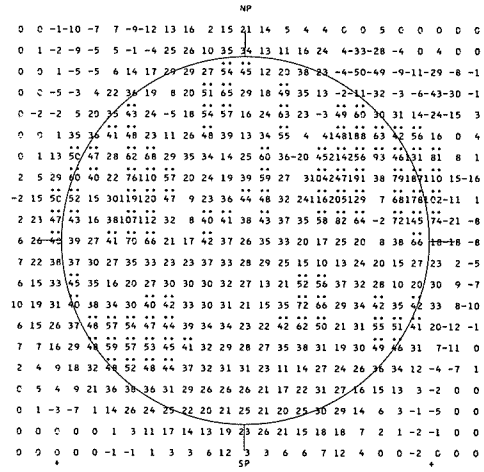
STANFORD — **NOVEMBER 1966** — **9.1 cm**



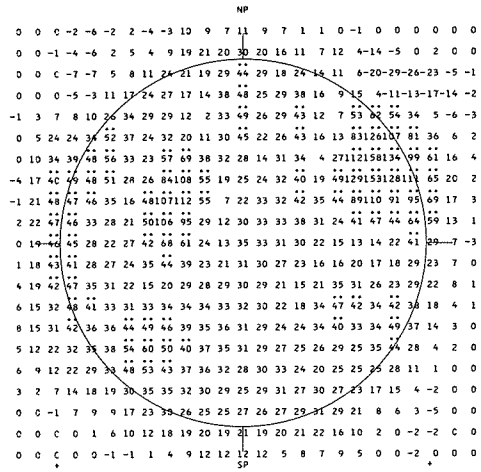
9.1 CM SPECTROHELIOGRAM
STANFORD, 25 NOV 1966 20-21 HOURS UT. S = 114 BRIGHTNESS UNIT = 1000 K



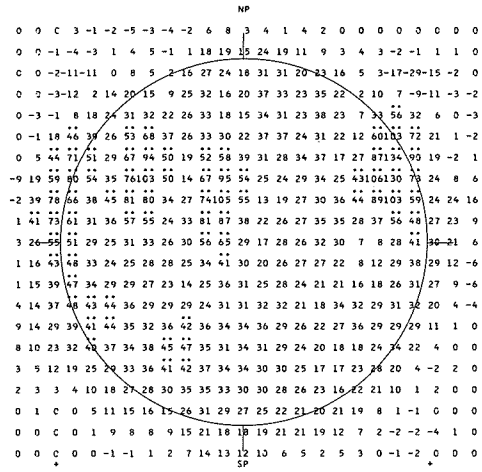
9.1 CM SPECTROHELIOGRAM
STANFORD, 26 NOV 1966 20-21 HOURS UT. S = 110 BRIGHTNESS UNIT = 1000 K



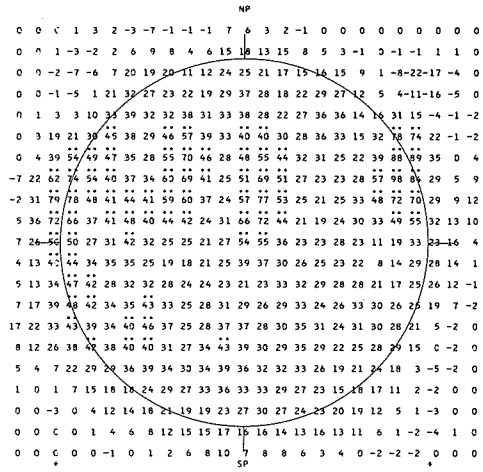
9.1 CM SPECTROHELIOGRAM
STANFORD, 27 NOV 1966 20-21 HOURS UT. S = 114 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 28 NOV 1966 20-21 HOURS UT. S = 107 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 29 NOV 1966 20-21 HOURS UT. S = 101 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 30 NOV 1966 20-21 HOURS UT. S = 97 BRIGHTNESS UNIT = 1000 K

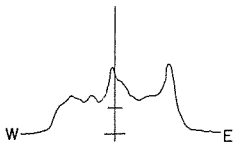
IVm

EAST - WEST SOLAR SCANS

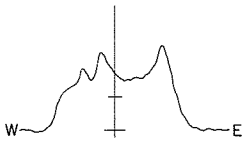
November 1966

FLEURS, AUSTRALIA

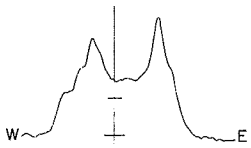
21 cm
Fan - Beam with 2 minutes of arc
E - W Resolution



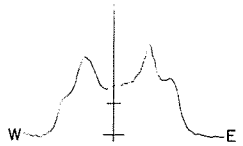
1966 November 1 0141 U.T.



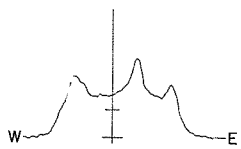
1966 November 2 0141 U.T.



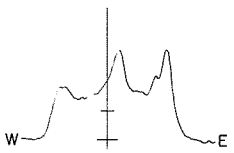
1966 November 3 0136 U.T.



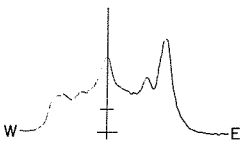
1966 November 4 0153 U.T.



1966 November 5 0141 U.T.

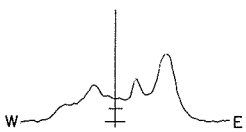


1966 November 6 0141 U.T.

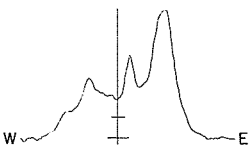


1966 November 7 0145 U.T.

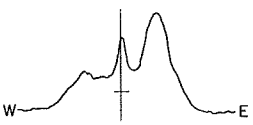
NO DATA
1966 November 8



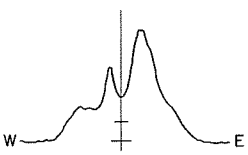
1966 November 9 0145 U.T.



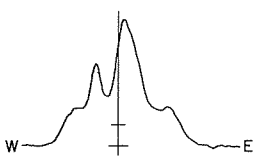
1966 November 10 0401 U.T.



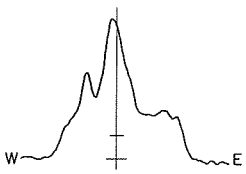
1966 November 11 0141 U.T



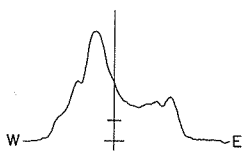
1966 November 12 0141 U.T.



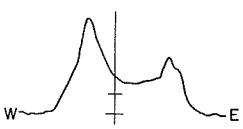
1966 November 13 0141 U.T.



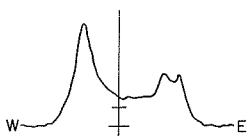
1966 November 14 0141 U.T.



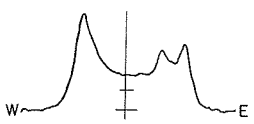
1966 November 15 0055 U.T.



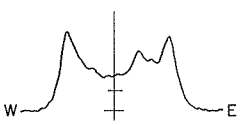
1966 November 16 0158 U.T.



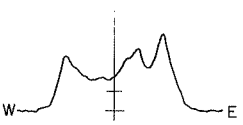
1966 November 17 0142 U.T.



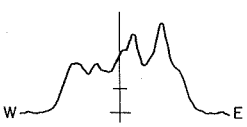
1966 November 18 0142 U.T.



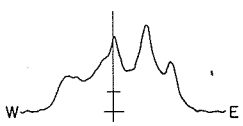
1966 November 19 0142 U.T.



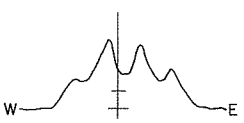
1966 November 20 0142 U.T.



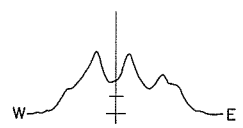
1966 November 21 0142 U.T.



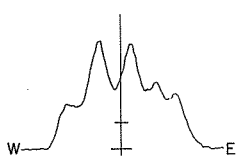
1966 November 22 0147 U.T.



1966 November 23 0143 U.T.

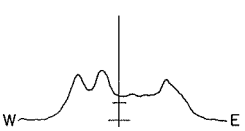


1966 November 24 0143 U.T.

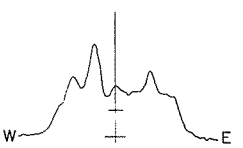


1966 November 24 2251 U.T.

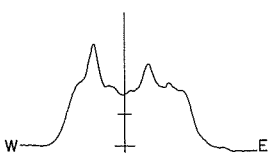
NO DATA
1966 November 26



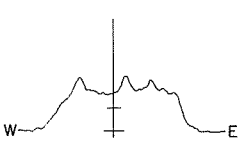
1966 November 27 0231 U.T.



1966 November 28 0153 U.T.



1966 November 29 0215 U.T.



1966 November 30 0102 U.T.

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

OCTOBER 1966

OCT 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
01	0226	0311	0232	4	S 1								MA OK	*
01	0227	0322	0243	1					27				MA(NPG18-27)	
01	1729	1750	1742	1						1			UM	1735
01	1735	1800	1742	1					33				UM(NPM26-33,NSS21-15)	
01	1736	1749	1738	5							06		BO(WWI8-0.6)	
													HA(WWVH5-0.5)	
01	1740	1752	1744U	1	S 1-								MC	
01	1956	2007		5								1	HA MC (GROUP)	
01	2030	2032	2031	1							05		HA(WWVH5-0.5)	2023
01	2044	2150	2046	1							04		BO(WWI11-0.4)	2043
01	2136	2138		5								1	HA MC	
01	2301	2302		1								1	HA	
01	2351	2351		1								1	HA	2352
02	0014	0015		1								1	HA	0014U
02	2117	2118		5								1	BO HA	
04	2205	2207	2206	1							07		HA(WWVH10-0.7)	*
05	0215	0308	0227	1					36				MA(NPG18-36)	*
06	1535	1645	1555	1					31				UM(NSS21-31)	1533
06	1538	1620		5	SL 1-								HU MC	
10	2109	2110		5								1	MC HA	
12	1900	1910		4								1+	BO MC (GROUP)	1905
13	0430	0450	0435	1		48	2						ND	0430
13	0430	0515	0445	1				1					ND	
13	0430	0630	0435	1						1			ND	
13	0431	0443		5	S 2								TO AN MA OK	
13	1334	1353	1344	1							03		BO(WWI8-0.3)	1330
13	1335			2					90				BO(WWVL20-90,NBA24-42)	
13	1338	1355	1345	5		50	2						RO MC	
13	1338	1410	1340	5	S 1+								MC BE BO BY HU SW TO TR	
13	1345	1445	1352	4				2					LO RO	
13	1817			2					20				BO(NPM26-20,WWVL20-14, NBA24-14)	1814
14	0034	0106	0040	1					35				MA(NPG18-35)	0027E
14	0040	0100		4	S 1								OK MA	
14	0525	0600		5	SL 2								OK MA TO	0524E
14	0525	0720	0535	1						1			ND	
14	0529	0610	0535	1				1					ND	
14	0530	0550	0534	1		58	2						ND	
14	1308	1343	1325	5	SL 1								HU MC	1250
14	1311			1				1-					RO	
14	1812	1813		4								1	MC BO	1812
14	1815	1816		4								1	MC BO	1812
15	0413	0503	0422	1					36				MA(NGP18-36)	0412
15	0415	0450		5	S 2								OK AN MA	
15	1908	2000	1920	3				2					A1 A6	1850
15	1908	2015	1920	3						1+			A1 A18	
15	1908	2015	1920	5				1+					A1 A6 BO	
15	1912	1955	1925	5	SL 2								MC AN BO HU WS	
15	1912	2320	1925	5					43				HA(WWVL20-43)	
													AN(NPM26-40)	
15													MA(NPG18-35)	
15	1917	1938	1917	4		32	2						BO MC	
15	1919			2					40				BO(NBA24-40,NPM26-35, WWVL20-28)	
16	1902	1904	1903	1							04		HA(WWVH5-0.4, WWVH10-0.3)	1901
16	2050	2200	2058	1					14				HA(WWVL20-14)	2045
16	2051	2054	2052	5							04		HA(WWVH10-0.4)	
													BO(WWI11-0.3)	
16	2311	2319	2314	1	S 1-								MA	2253
16	2312	2314	2314	1							05		HA(WWXH10-0.5)	
16	2312	2331	2315	1					16				MA(NPG18-16)	
17	0046	0050	0048	1							05		HA(WWVH5-0.5)	*
													WWVH10-0.3)	
17	0049	0102	0057	4	S 1-								MA OK	
17	0050	0125	0056	1					26				MA(NPG18-26)	
17	0239	0329	0242	4	S 1								MA OK	*
17	0243	0358	0300	1					61				MA(NPG18-61)	
17	0343	0405	0347	1				1					ND	*
17	0343	0420	0352	1						1			ND	
17	0420	0450		4	SL 1+								OK MA	*
17	0427	0450	0435	1				1					ND	
17	0427	0500	0435	1						1			ND	
17	0430	0507	0440	1					36				MA(NPG18-36)	
17	1005	1100	1025	1						3			UM	1010E
17	1010	1145	1025	1					60				UM(GBZ19-60)	

IONOSPHERIC EFFECTS OF SOLAR FLARES

OCTOBER 1966

OCT 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
17	1015U	1110	1045	1				2+					A17	1010E
18	1939	1943		5								2	MC BO HA	1937
20	1612	1615		4								1+	MC BO	1612
20	2039	2100	2046	4		05	1						MC BO	2037E
20	2040	2055	2044U	1	SL 1-								MC	
20	2040	2300	2050	1					36				HA(WWVL20-36)	
20	2154	2156	2155	1							12		HA(WWVH10-12,WWVH5-10)	2153
20	2155	2159		5								2	HA MC	
22	2217	2351	2222	4					22				MA(NPG18-22) HA(WWVL20-22)	2212
23	0205	0230		4	S 1								OK MA	0208
23	0206	0226	0210	1					20				MA(NPG18-20)	
23	0234	0303	0240	1					43				MA(NPG18-43)	0234
23	0235	0315	0240	4	S 1								OK MA	
23	0236	0246	0240	1		10	1-						MA	
23	0615	0800	0640	5	G 2								AN MA	0628
23	0955		1015	1					32				UM(GBZ19-32)	
23	1003		1010	1						1			UM	
23	1024	1115	1035	1						2+			UM	
23	1025	1130	1035	1					32				UM(GBZ19-32)	
23	1420	1530	1432	2						2			A1 A18	1423
23	1420	1545	1442	5					99				BO(WWVL20-360,NBA24-45, NPM26-125) UM(WWVL20-99,GBZ19-16)	
23	1424	1520	1430	5	SL 2+								MC BA BE BO GS HU TN TR	
23	1424	1545		5				2					RO A1 A5 A6 A17	
23	1425	1520	1434	5		30	1						RO MC BO	
23	1940	2015	1953	1						2			A18	1905
23	1941			5					99				BO(WWVL20-115,NPM26-42, NBA24-15) HA(WWVL20-22)	
23	2055	2130	2102	5	SL 1+								HU AN BE BO MC TO	2055
23	2055	2310	2115	5					99				BO(WWVL20-170,NPM26-70) AN(NPM26-75) HA(WWVL20-65)	
23	2058	2128	2106	5		23	1						BO MC HA	
23	2100	2145	2115	3				2					A1 A5 A18	
23	2100	2200	2107	1						3			A18	
23	2237	2302	2239	1	S 1-								MA	2231
23	2238	2330	2243	1				1-					MA	
23	2239	2306	2243	1					28				MA(NPG18-28)	
23	2351	0040		4	SL 2								OK MA	2350
23	2351	2355	2353	1							12		HA(WWVH10-12,WWVH5-7)	
24	0006	0047	0018	1					47				MA(NPG18-47)	
24	0028	0037	0032	1							2		BO(WW18-0.2)	
24	0120	0136	0132	1		6	1-						MA	0120E
24	0120	0200	0124	4	G 1								OK MA	
24	0121	0201	0127	1					37				MA(NPG18-37)	
24	0249	0302	0252	1	S 1-								MA	
24	0250	0315	0305	1					37				MA(NPG18-37)	
24	0340	0401	0346	1					32				MA(NPG18-32)	
24	0340	0401	0346	1	G 1-								MA	
24	1455	1555	1515	1						3			UM	1420
24	1500	1530	1511	5					99				BO(WWVL20-160) UM(GBZ19-39,WWVL20-36)	
24	1502	1505	1503	1							25		BO	
24	1503		1508	1				1-					A17	
24	2250	2328	2304	4	SL 1+								MA OK	2252
24	2251	2333	2301	4					43				MA(NPG18-43)	
24	2251	2333	2301										HA(WWVL20-32)	
25	0415	0450	0430	4	G 1+								OK MA	*
25	0418	0540	0432	1						1			ND	
25	0419	0442	0427	1					36				MA(NPG18-36)	
25	0421	0437	0427	1		7	1-						MA	
25	0727	0742	0733	1	SL 1								OK	
25	0727	0742	0733	1					16				MA(NPG18-16)	
26	0500	0550	0530	2					90				AN(WWVL20-90,NSS21-70)	
26	0500	0630	0530	1	SL 2+								AN	
26	0500	0930	0530	1			2						AN	

CI = Las Palmas, Canary Islands TN = Tangiers, Morocco
Ft. Monmouth ceased observation of SWFs in September 1966.

RIOMETER EVENTS

OCTOBER 1966

Great Whale River — 30 Mc/s

OCT. 1966	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS
02	0350	1448	0920	7	3
03	0430	0930	0548	7	1
04	0250				
06		2240	0540	120	25
07	0200	2300	0500	50	5
08	0151	2333	0842	14	8
09	0144	2238	1215	32	16
10	0155	2320	1331	10	2
11	*				
12		2226	2013	20	4
13	0300		1215		
14		1006		24	13
15	0116	1030	0617	5	2
15	1646				
16			0732		
17		0520		50	17
18	0624				
19		2253	1936	14	5
20	0250	0600	0414	6	3
21	0700	2204	1348	11	2
22	0533	*	1425	5	1
23	1251	2223	1435	4	1
24	*	0820	0437	4	3
24	1230	2138	1550	7	4
25	0100	2359	1357	60	13
26	0234	2200	1541	56	8
27	0018	1022	0247	24	2
29	0248	0820	0644	7	1
30	0115	0658	0511	11	3
30	1334				
01			1227		
02		0840		74	27

* 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

NOVEMBER 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		
2	10700	PENN	20	1722.1	1723.9	15.7	9.3	2.9		
	8800	SGMR	1	1722	1724	4.5	4.4	2.5		
	4995	SGMR	3	1721.5	1722.8	5.3	13.2	6.5		
	2800	OTTA	4	1719	1714	9	28.0	11.0		
	2700	PENN	20	1715.2	1723.9	58	30.4	4.0		
	2695	SGMR	3	1721	1724	12	22.6	11.2		
	1415	SGMR	45	1719.3	1724.5	11.7	30.2	14.7		
	606	SGMR	45	1719.7	1723.3	8	40.1	7.6		
	2800	OTTA	29	1728		30	2.0	1.0		
3	2800	OTTA	21	1852	1901	30	1.6	0.8		
	8800	SGMR	1	1858	1859.9	5	4.6	1.6		
	4995	SGMR	1	1858	1859.9	5	4.4	1.5		
	2800	OTTA	4	1857	1859.7	4	8.6	4.3		
	2700	PENN	3	1852.6	1859.8	7 D	10.4	2.0D		
	2695	SGMR	3	1857.5	1859.9	5.5	9.1	3.0		
	1415	SGMR	1	1857.5	1859.9	5.5	3.0	1.0		
5	606	SGMR	3	1238.4	1238.5	.2	87.4	43.8		
	2700	PENT	2	2321	2322.2	2	6.0	3.0		
6	2800	OTTA	21	1334	1412	80	3.6	2.0		
	2800	OTTA	1	1437.2	1437.4	.5	2.0	1.0		
	1415	SGMR	20	1440	1442.4	8	2.6	1.0		
7	10700	PENN	24	1815.6	1851.5	180 D	30.5	20.0		
	8800	SGMR	22	1824	1847.4	185 D	22.4	6.5		
	4995	SGMR	22	1808	1847.3	201 D	18.0	6.0		
	2800	OTTA	25	1800		50	7.4			
	2800	OTTA	1	1846.5	1847.5	1.5	1.6	0.8		
	2700	PENN	24	1803	2007	180 D	13.2	10.7		
	2695	SGMR	22	1758	1847.3	211 D	13.4	4.4		
	1415	SGMR	22	1751	1847.3	218 D	6.4	2.1		
8	2700	PENT	1	2054	2054.5	1.5	.8	0.4		
10	2800	OTTA	26	1500	1510	20	-1.4	-0.7		
	2800	OTTA	1	1520	1520.5	1	1.4	0.7		
	2800	OTTA	20	1843	1848	12	1.8	0.9		
	2700	PENT	20	2215	2017	60	1.4	0.7		
11	2800	OTTA	20	1325	1333	45	3.0	1.5		
	2800	OTTA	20	1545	1557	20	2.0	1.0		
	2800	OTTA	21	1700	1730	85	3.2	1.6		
	8800	SGMR	20	1750	1802.5	30	3.8	1.2		
	4995	SGMR	20	1750	1801.5	30	8.6	2.5		
	2800	OTTA	1	1800.5	1802	2	4.0	2.0		
	2695	SGMR	20	1750	1802.3	30	7.1	2.0		
	1415	SGMR	20	1750	1805	31	3.8	1.2		
	8800	SGMR	40	1934	1938.5	16	7.0	3.5		
	4995	SGMR	40	1930	1938	20	8.6	4.3		
	2800	OTTA	20	1920	1935	55	3.0	1.5		
	2695	SGMR	40	1930	1937	23	5.9	2.9		
	1415	SGMR	40	1934	1941.3	16	1.7	0.8		
	2700	PENT	4	2149	2151.2	4	16.4	8.2		
	2800	OTTA	29	2153		15	1.8	0.9		
12	2800	OTTA	20	1720	1730	25	2.4	1.2		
	2800	OTTA	20	1842	1845	7	1.0	0.5		
	2800	OTTA	20	1903	1910	45	2.4	1.2		
13	2800	OTTA	20	1343	1345.5	7	2.0	1.0		
	2800	OTTA	1	1955	1956	2	2.0	1.0		
	2800	OTTA	1	2106.5	2108	2	2.6	1.3		
	2700	PENT	21	2058	2115	62	3.0	2.2		
14	2700	PENT	20	2040	2115	80	2.8	1.4		
15	8800	SGMR	1	1325.3	1325.8	2	2.8	1.5		
	4995	SGMR	1	1325.3	1325.7	2.2	6.8	3.4		
	2800	OTTA	20	1324	1326	9	1.6	0.8		
	2800	OTTA	22	1910	1932	80	6.6	3.3		
16	2800	OTTA	20	1427	1435	70	4.0	2.0		
	2800	OTTA	1	1753	1753.5	1.5	.8	0.4		
	2800	OTTA	20	1955	2015	55	2.0	1.0		
17	2800	OTTA	26	1435	1540	90	-2.8	-1.4		
	2800	OTTA	24	1655		5	4.0			

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

NOVEMBER 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		
19	8800	SGMR	40	1512.4	1521.6	18.6	10.4	3.0		
	4995	SGMR	40	1515.7	1521.6	15.3	3.4	1.0		
	2800	OTTA	20	1715	1725	50	2.8	1.4		
	2800	OTTA	20	1835	1915	85	2.8	1.4		
21	2800	OTTA	20	1450	1750	330	5.0	2.5		
22	2800	OTTA	20	1530	1615	75	2.2	1.1		
	2800	OTTA	1	1745.3	1745.5	1	1.2	0.6		
	2700	PENN	24	1745	1932	199	3.4	1.7		
	8800	SGMR	20	1832.5	1836.8	52.5	12.5	3.0		
	4995	SGMR	20	1832.5	1854.3	46.5	10.9	2.0		
	2800	OTTA	23	1824	1840	115	8.0	4.0		
	2800	OTTA	3	1847	1850	6	7.6	3.8		
	2700	PENN	20	1822.4	1848.8	63	14.7	4.1		
	2695	SGMR	20	1834	1849	43	22.3	5.0		
	1415	SGMR	20	1836.8	1851.6	53.2	25.2	8.0		
	960	PENN	1	1848.4	1851.6	7				
	606	SGMR	20	1838.2	1849	116.8	101.5	20.0		
	8800	SGMR	20	1947	1948	10	3.8	1.0		
	4995	SGMR	20	1946	1948.2	11	10.0	2.0		
	2800	OTTA	20	1946	1948	10	3.8	1.9		
	2700	PENN	20	1946	1948	13	4.4	2.2		
	2695	SGMR	20	1944.5	1948.3	13.5	4.4	1.0		
23	2800	OTTA	20	1625	1745	100	2.0	1.5		
24	2800	OTTA	20	1438	1443	15	1.2	0.6		
25	10700	PENN	24	1508 E		64 D				
	2700	PENN	24	1508 E		62 D				
	10700	PENN	20	1524	1528.1	17	6.6	2.3		
	8800	SGMR	20	1523.8	1529	22.2	5.6	1.0		
	4995	SGMR	3	1523.6	1524.6	1.9	25.0	4.0		
	4995	SGMR	29	1525.5	1525.5	20.5	9.4	4.0		
	2800	OTTA	22	1523	1524	35	5.4	2.7		
	2700	PENN	20	1521.6	1533.9	25	5.8	2.3		
	2695	SGMR	20	1523.5	1527.3	21.5	6.5	1.0		
	960	PENN	3	1530.6	1533.3	3.4	9.8	3.7		
	8800	SGMR	20	1811	1812	9	7.0	2.0		
	4995	SGMR	20	1809	1813.2	11	6.4	2.0		
	2695	SGMR	20	1809	1813.7	11	15.4	4.0		
	1415	SGMR	20	1812	1816.7	8	3.2	.5		
27	2800	OTTA	23	1540	1612	130	5.2	2.6		
	2800	OTTA	2	1619.3	1619.5	.5	6.6	3.3		
	2695	SGMR	40	1611	1611.7	3	6.0	2.0		
	2695	SGMR	3	1619.3	1619.4	.5	20.0	5.0		
	1415	SGMR	40	1605.3	1637	32.7	15.2	4.0		
	606	SGMR	40	1606.5	1617.5	31.5	8.8	2.2		
	2800	OTTA	20	1823	1838	60	2.6	1.3		
	2800	OTTA	45	2013	2013.8	1	7.6	3.8		
				2013	2013.2	.5	2.4			
				2013.5	2013.8	.5	7.6			
	2695	SGMR	3	2013	2013.6	2	7.6	2.5		
	1415	SGMR	3	2013.2	2013.8	2.8	7.9	2.6		
	606	SGMR	3	2013.2	2013.8	2.8	35.3	12.0		
	2800	OTTA	3	2149	2150	2	17.6	8.8		
	2800	OTTA	29	2151		3	3.0	1.5		
28	2800	OTTA	22	1418	1435	80	2.6	1.9		
29	2800	OTTA	1	1510.5	1511.3	1	5.0	2.5		
	2800	OTTA	29	1511.5		2.5	2.0	1.0		
30	2800	OTTA	21	1628	1700	80	3.0	1.5		
	8800	SGMR	1	1630	1633	14	6.6	1.0		
	4995	SGMR	3	1629.2	1631.4	15.8	9.3	2.0		
	2800	OTTA	4	1630.5	1631.8	3	10.8	3.6		
	2700	PENN	3	1629	1632.2	8	13.4	3.0		
	2695	SGMR	3	1628.5	1631.4	17.5	16.1	3.0		
	960	PENN	1	1631.5	1632.3	1.7	.9	0.6		

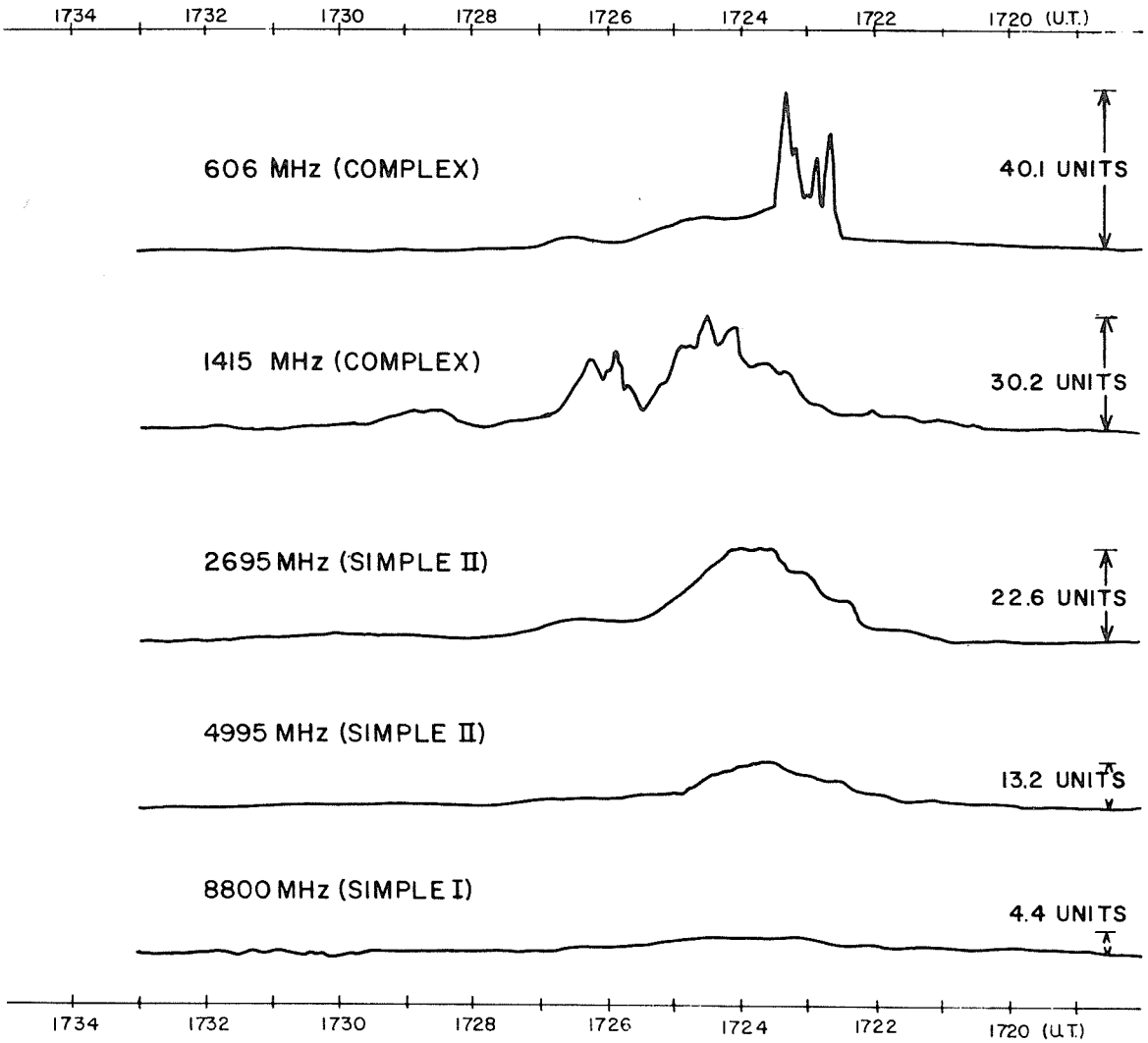
The following occurrences were received too late to include in the above table.

1	486	WASH	3	1550		1	25.0		
2	486	WASH	45	1722	1723	3	45.0		
11	486	WASH	45	2150		2	25.0		
22	486	WASH	45	1847	1852	6	85.0		

IVc

SELECTED SOLAR NOISE BURST
AFCRL SAGAMORE HILL

NOVEMBER 1966



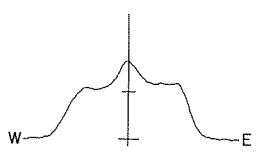
RADIO BURST RECORDED AT SAGAMORE HILL RADIO OBSERVATORY (AFCRL)
HAMILTON, MASS. ON 2 NOVEMBER, 1966

EAST - WEST SOLAR SCANS

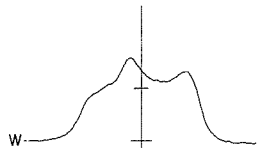
November 1966

FLEURS, AUSTRALIA

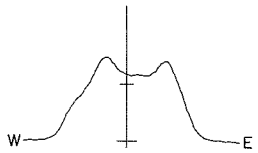
43 cm
Fan-Beam with 4 minutes of arc
E-W Resolution



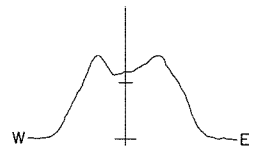
1966 November 1 0141 U.T.



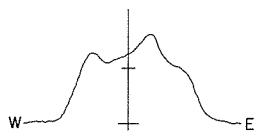
1966 November 2 0141 U.T.



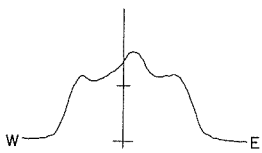
1966 November 3 0141 U.T.



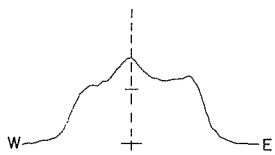
1966 November 4 0124 U.T.



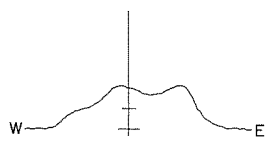
1966 November 5 0149 U.T.



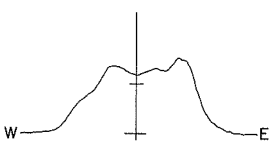
1966 November 6 0141 U.T.



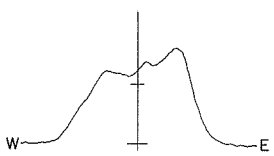
1966 November 7 0206 U.T.



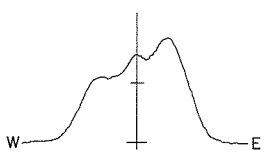
1966 November 7 2337 U.T.



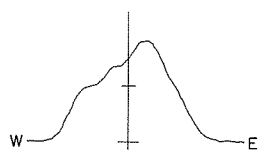
1966 November 9 0141 U.T.



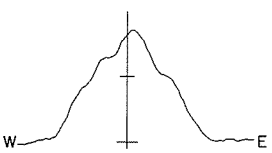
1966 November 10 0141 U.T.



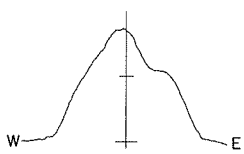
1966 November 11 0141 U.T.



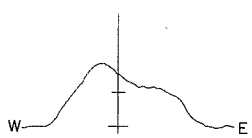
1966 November 12 0141 U.T.



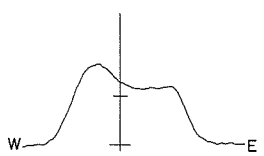
1966 November 13 0141 U.T.



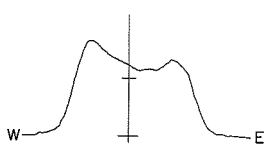
1966 November 14 0141 U.T.



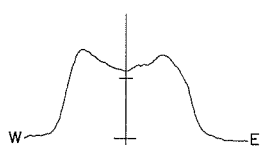
1966 November 15 0116 U.T.



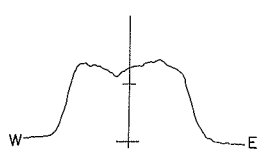
1966 November 16 0142 U.T.



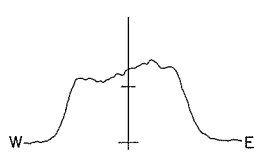
1966 November 17 0142 U.T.



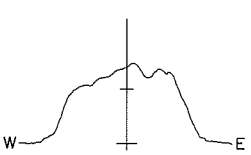
1966 November 18 0141 U.T.



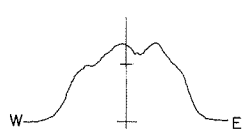
1966 November 19 0142 U.T.



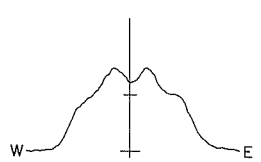
1966 November 20 0242 U.T.



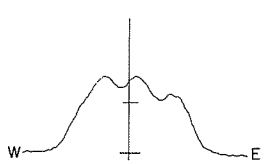
1966 November 21 0143 U.T.



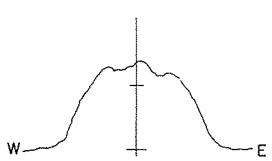
1966 November 22 0143 U.T.



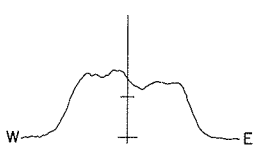
1966 November 23 0243 U.T.



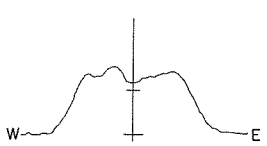
1966 November 24 0143 U.T.



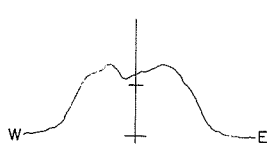
1966 November 25 0946 U.T.



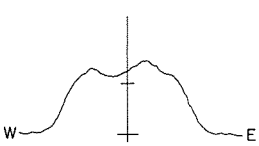
1966 November 26 0153 U.T.



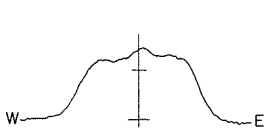
1966 November 27 0144 U.T.



1966 November 28 0136 U.T.



1966 November 29 0145 U.T.



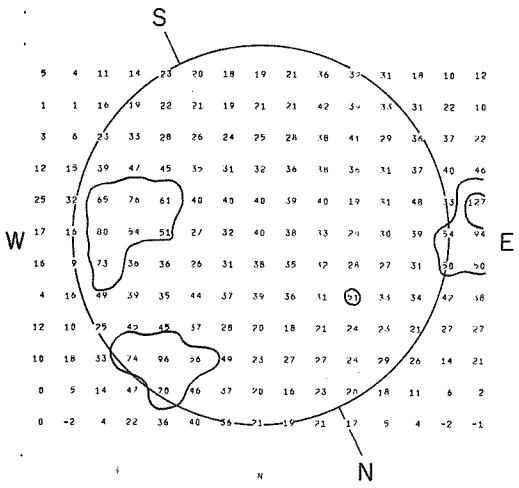
1966 November 30 0145 U.T.

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

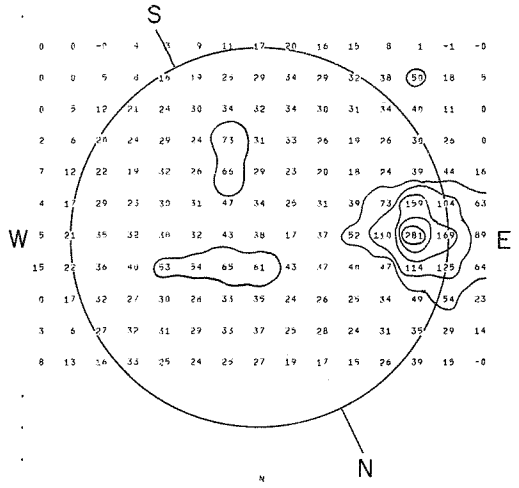
FLEURS, AUSTRALIA

OCTOBER 1966

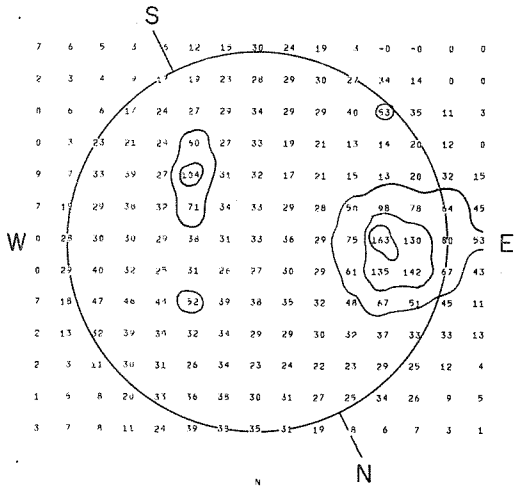
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



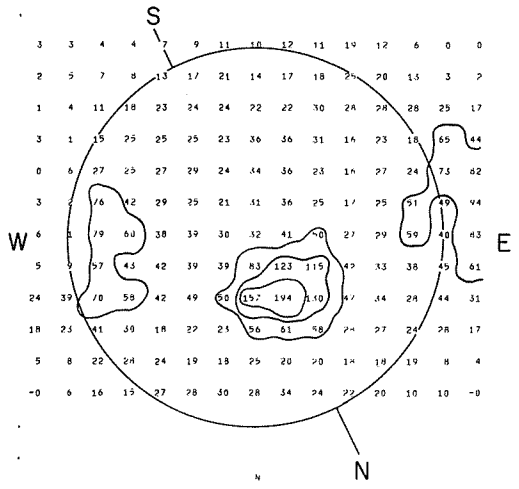
1966 October 3



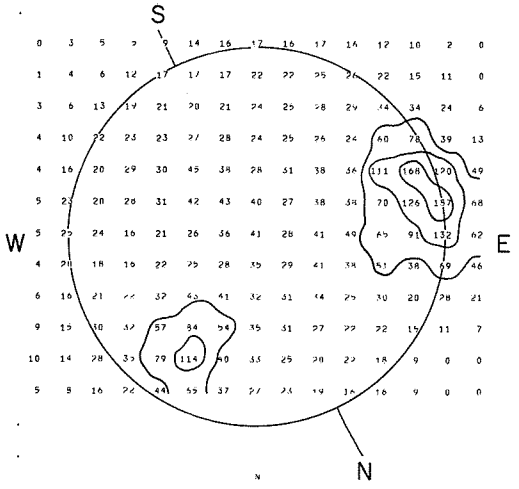
1966 October 6



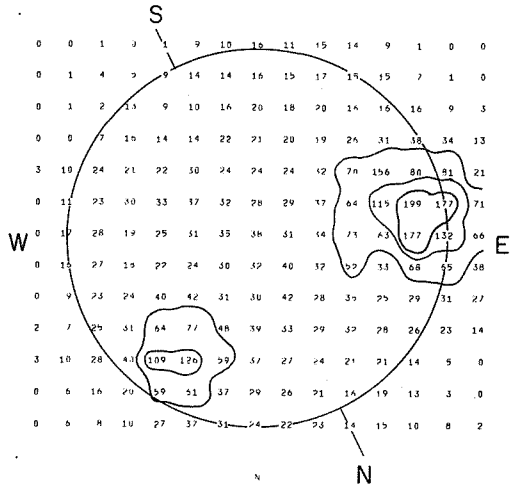
1966 October 7



1966 October 10



1966 October 13



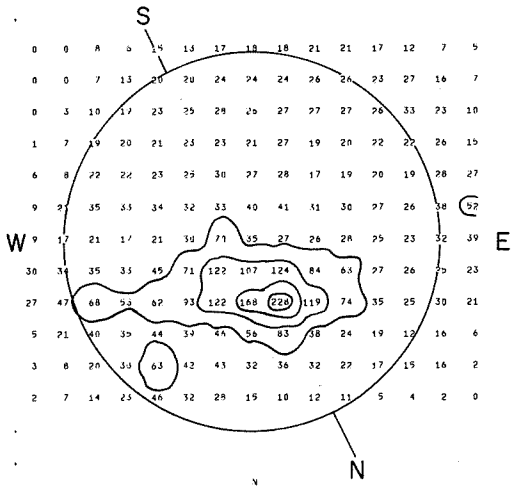
1966 October 14

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

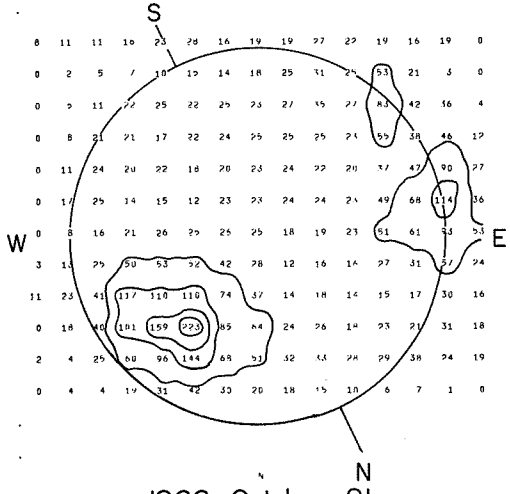
FLEURS, AUSTRALIA

OCTOBER 1966

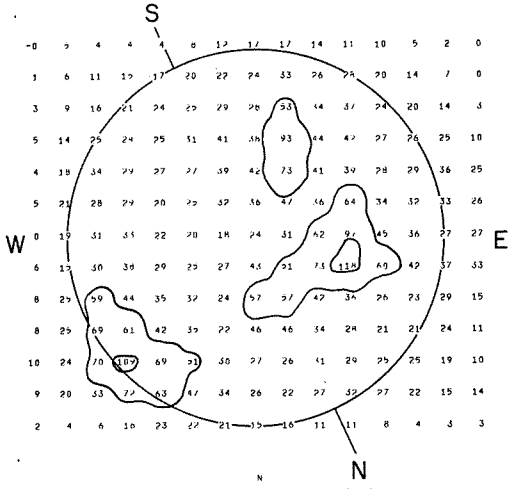
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



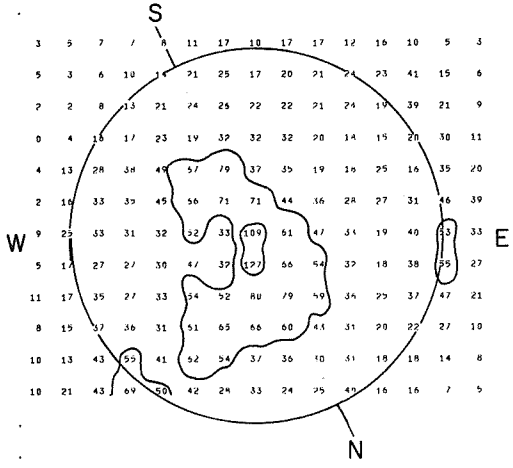
1966 October 18



1966 October 21



1966 October 24



1966 October 26

IVd

COSMIC RAY INDICES

(Neutron Monitors)

OCTOBER 1966

OCT. 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	*	6627.4	3964.6	*
2		6616.4	3958.4	
3		6614.1	3964.9	
4		6665.3	4004.5	
5		6747.7	4058.0	
6		6774.3	4075.6	
7		6771.0	4084.7	
8		6760.6	4076.3	
9		6758.1	4070.5	
10		6776.3	4059.9	
11		6800.6	4062.0	
12		6782.8	4058.0	
13		6752.0	4053.4	
14		6754.2	4055.9	
15		6764.2	4064.1	
16		6686.2	4023.3	
17		6741.2	4040.9	
18		6802.7	4096.2	
19		6861.6	4119.3	
20		6885.2	4125.4	
21		6880.9	4142.7	
22		6879.8	4141.8	
23		6898.1	4137.0	
24		6851.9	4087.7	
25		6823.0	4077.3	
26		6700.5	4000.6	
27		6629.8	3956.9	
28		6655.6	3976.9	
29		6734.4	4013.2	
30		6818.5	4072.3	
31		6786.1	4093.2	

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

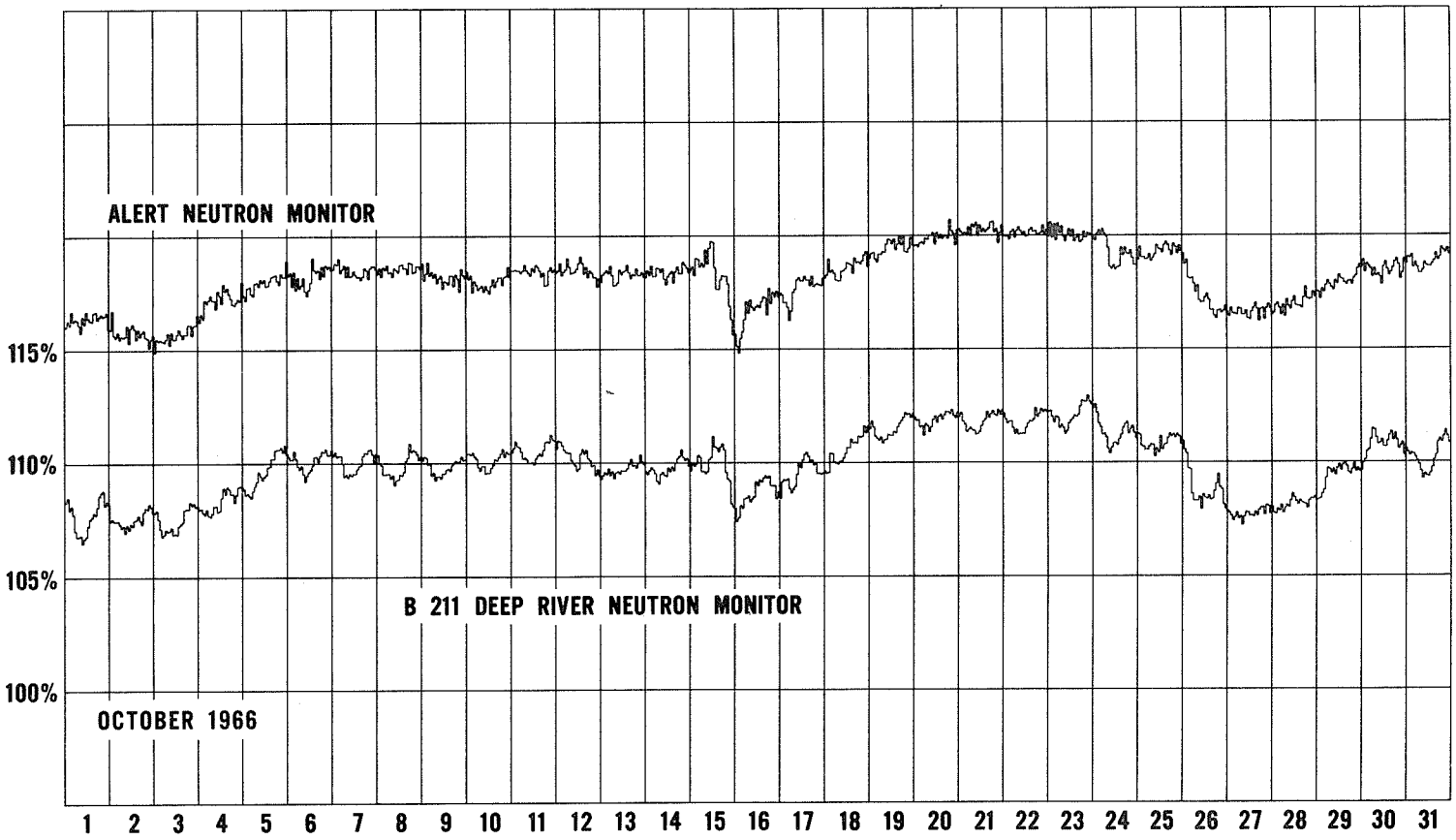
Deep River Neutron Monitor, Scaling Factor 300.

Climax IGC Station B305, Scaling Factor 100.

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

OCTOBER 1966



GEOMAGNETIC ACTIVITY INDICES

OCTOBER 1966

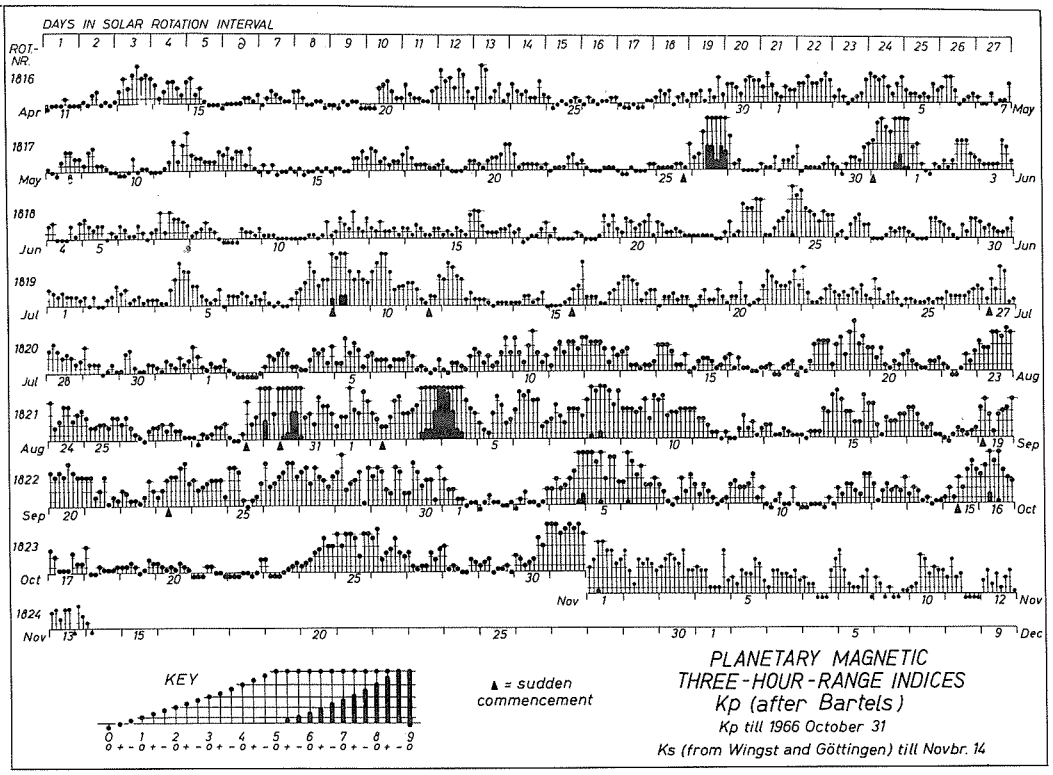
DAY		Kp THREE-HOUR RANGE INDICES 1	2	3	4	5	6	7	8	SUM	Ci	Cp	Ap
1		3	2	2	1	1	0+	1-	1-	11-	0.3	0.3	6
2	QQ	0	1-	1+	1-	1-	0+	0+	1-	5-	0.0	0.0	3
3	Q	0	1	2-	1-	1-	0+	1-	2	7	0.1	0.1	4
4	D	2	3	2	2+	3	4-	5+	6	27+	1.3	1.2	26
5	D	5	5	4+	5+	3	5-	5-	3-	35-	1.5	1.4	36
6	D	3-	5+	4+	3+	4	2+	2+	3	27+	1.0	1.1	22
7		2+	2-	1-	0+	1	3	2-	3+	14	0.5	0.4	8
8		2+	1+	2+	2-	1	0+	1-	1	11-	0.2	0.2	5
9		2+	3-	2	2	2+	3+	1	2	18-	0.6	0.5	9
10	Q	0+	0	1-	1+	0+	0+	2	0+	5+	0.2	0.1	3
11	QQ	0	0	0+	0+	0+	0	1	0+	2+	0.0	0.0	2
12		2	1+	2+	2+	2-	1+	3+	3+	18-	0.6	0.5	10
13		2+	1-	2-	2+	2-	2	2-	3	15+	0.5	0.4	8
14		1+	2	2-	1-	1	0+	1-	1-	8+	0.1	0.1	4
15		1	2	1	3	2	4-	4+	4-	21-	0.8	0.8	14
16	D	3+	4	6	4+	5+	4-	3	3-	32+	1.4	1.0	20
17		3-	2	1-	1-	1-	2+	1+	1+	12-	0.3	0.3	6
18		3	0+	0+	1	1-	1-	1-	1	8-	0.2	0.2	4
19	Q	1	1	1+	1	0+	1-	2-	1+	8+	0.1	0.1	4
20	Q	1+	1	1-	1	1-	1+	1	1-	8-	0.1	0.1	4
21	QQ	0	0	0	1	1	0+	0+	0	3-	0.0	0.0	2
22	QQ	0	0	0	0+	0+	0	0+	2-	3-	0.0	0.0	2
23	QQ	2-	0	0	0	0+	1-	1	1+	5	0.1	0.0	2
24		1	1+	2-	2+	3-	4-	3	3	19-	0.9	0.6	11
25		4	3	4	4	4-	2	4	4	29-	1.2	1.1	22
26		4-	4+	2-	2+	3-	4-	2+	2	23-	1.0	0.8	15
27		2+	1	1-	1	1	2+	2-	3-	13-	0.3	0.3	6
28		3	1-	1	1-	0+	0+	2-	1+	9	0.2	0.2	5
29	Q	1	1+	2-	0+	1-	1-	1	0+	7	0.1	0.1	4
30		2	2-	1	1+	2-	4-	3	5-	19	1.0	0.7	13
31	D	5-	5-	4	4+	5-	4+	5-	4	35+	1.5	1.4	34
										MEAN	0.52	0.45	10

The Kp values given as integers represent the values normally given with a small zero following the number i.e., 0=0o, 1=1o, etc., because the table is prepared by computer and lower case symbols are not available.

A preliminary storm sudden commencement (ssc) occurred October 15 at 0954UT.

Erratum: Mean Ap for July 1966 should be 9 instead of 12 as published in CRPL-FB-265, September 1966.

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

	1965		1966									
	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	4	19	2	3	3	18	8	12	5	6	22	6
2	5	9	8	3	3	13	12	10	4	1	15	3
3	1	2	6	11	10	7	5	7	4	7	92	4
4	8	11	11	13	9	8	12	4	14	8	112	26
5	13	3	4	18	5	6	6	5	5	10	13	36
6	17	3	2	8	4	7	7	4	5	6	24	22
7	9	3	7	4	2	10	4	9	4	5	14	8
8	4	4	8	4	3	10	5	4	22	5	42	5
9	5	6	8	3	4	5	5	3	36	9	19	9
10	0	10	7	7	10	5	2	2	25	12	19	3
11	3	10	2	12	6	2	10	3	8	14	7	2
12	3	10	2	5	6	3	6	7	15	14	5	10
13	10	6	2	6	14	15	7	5	3	6	4	8
14	3	2	3	2	64	8	2	4	4	9	10	4
15	2	1	5	4	7	4	2	6	8	5	20	14
16	1	1	0	5	7	3	5	6	6	4	10	20
17	4	2	2	4	6	4	7	4	11	2	9	6
18	6	12	5	3	4	3	5	3	4	10	3	4
19	10	7	3	14	20	2	3	6	5	20	17	4
20	17	4	15	17	10	5	8	7	6	7	21	4
21	10	2	23	4	8	5	4	4	14	5	10	2
22	4	6	27	14	7	13	4	3	8	4	6	2
23	2	3	14	28	67	10	2	17	6	22	17	2
24	4	9	14	19	2	6	2	16	6	16	12	11
25	5	12	11	10	14	3	5	16	4	8	13	22
26	4	19	14	3	20	3	78	6	6	6	22	15
27	4	10	3	4	13	1	5	4	11	5	18	6
28	2	16	7	2	42	4	5	5	10	4	22	5
29	3	8	6		12	6	4	6	5	13	17	4
30	12	6	2		6	10	6	6	6	82	16	13
31		3	2		3		48		5	23		34
MEAN	6	7	7	8	13	7	9	6	9	11	21	10

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

NORTH ATLANTIC, NORTH PACIFIC — OCTOBER 1966

OCT. 1966	WHOLE DAY INDICES: NORTH ATLANTIC	NORTH PACIFIC	AVERAGE HIGH LATITUDE	ADVANCE FORECASTS (Jc-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC: 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	NORTH ATLANTIC: SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF: 00	06	12	18	NORTH PACIFIC: 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	GEOMAGNETIC INDICES: K_{FR} HALF DAY (1)	(2)	A_{FR} OB-SERVED	PRE-DICTED	K_{SI} HALF DAY (1)	(2)	A_{SI}
01	6+	6	6	6	6+	5o	7−	7o	6	5	7	7	6	6	6	6	2	1	5	15	2	0	4
02	7−	6	6	6	6+	6−	7−	7o	6	6	7	7	6	6	6	6	1	0	3	11	1	0	2
03	7−	6	6	6	6+	6+	7o	7o	7	6	7	7	6	6	6	6	1	1	3	11	1	0	2
04	7−	6	6	6	7−	6o	7−	7−	7	6	7	7	6	6	7	6	3	(4)	20	7	2	3	16
05	6−	5	5	6	6−	4+	6+	6+	6	5	7	6	6	5	5	5	(4)	3	20	7	(6)	3	50
06	6−	5	5	6	5o	5o	6+	7−	6	5	7	7	6	5	5	6	3	3	15	12	(4)	3	34
07	6+	6	6	6	6+	6o	7−	7−	6	5	7	7	6	6	5	6	1	2	6	9	1	2	5
08	7−	6	6	6	7−	6o	7−	7o	6	6	7	7	6	6	6	6	2	1	5	7	2	0	6
09	7−	6	6	7	6+	6−	7o	7o	7	6	7	7	6	6	6	7	2	2	9	5	2	2	8
10	6+	6	6	7	6+	5+	7−	7o	7	6	7	7	6	6	6	6	1	1	2	5	1	0	2
11	7−	6	6	7	6+	6o	7o	7o	7	6	7	7	7	6	6	6	0	0	0	5	0	0	0
12	7−	6	6	6	7o	6+	7−	7+	7	6	7	7	6	6	6	6	2	3	9	10	1	2	5
13	7−	6	6	6	7−	7−	7o	7o	7	6	7	7	6	6	6	6	2	2	7	9	1	2	5
14	7−	6	6	6	6+	6o	7o	7o	7	6	7	7	6	6	6	6	1	1	3	7	1	0	3
15	7−	6	6	7	7−	7−	7o	7−	7	6	7	7	6	6	6	6	2	3	12	7	1	3	9
16	6o	6	6	7	6+	5o	6o	7−	6	6	7	6	6	6	5	6	(4)	3	23	12	(5)	(4)	81
17	6+	6	6	6	6+	5+	7−	7o	6	6	7	7	5	6	6	6	2	1	4	12	0	1	3
18	7−	6	6	6	7−	6−	7−	7−	7	6	7	7	6	6	6	6	1	1	2	10	0	1	2
19	7−	6	6	6	7−	7−	7o	7−	7	6	7	7	6	6	6	6	1	1	3	7	1	1	3
20	7−	6	6	7	7−	6+	7−	7−	7	6	7	7	6	6	6	6	1	1	4	7	0	0	1
21	7−	6	6	6	7−	6+	7−	7o	7	6	7	7	6	6	7	6	0	1	2	10	0	0	1
22	7−	6	6	6	7−	7−	7o	7o	7	6	7	7	6	6	6	6	0	0	0	10	0	0	0
23	7−	6	6	6	7−	7−	7−	7o	7	7	7	7	6	6	6	6	0	1	2	10	0	0	0
24	7−	6	6	6	7−	7−	7o	7o	7	6	7	7	6	6	7	6	2	3	11	13	0	3	8
25	6+	6	6	6	7−	6−	7−	7−	6	6	7	7	6	6	6	7	(4)	3	19	13	(4)	3	24
26	6+	6	6	6	6+	6o	7−	7−	6	6	7	7	6	6	5	6	3	3	14	9	2	2	11
27	7−	6	6	6	6+	6o	7−	7−	7	6	7	7	6	6	6	6	1	2	6	9	0	2	3
28	7−	6	6	7	6+	6+	7o	7o	7	6	7	7	6	6	6	6	1	2	4	6	0	0	2
29	7−	6	6	7	7−	7−	7o	7o	7	6	7	7	6	6	6	6	1	1	3	4	1	0	2
30	7−	6	6	7	7−	6+	7o	7o	7	6	7	7	6	6	5	6	2	3	11	4	1	2	6
31	6o	5	6	7	6−	6−	6+	6o	6	5	7	7	6	6	5	5	(4)	3	24	10	(4)	(4)	35
QUIET	P	19							21	19	27	29											
	S	12							10	11	4	2											
	U	0							0	0	0	0											
	F	0							0	0	0	0											
DISTURBED	P	0							0	0	0	0											
	S	0							0	1	0	0											
	U	0							0	0	0	0											
	F	0							0	0	0	0											

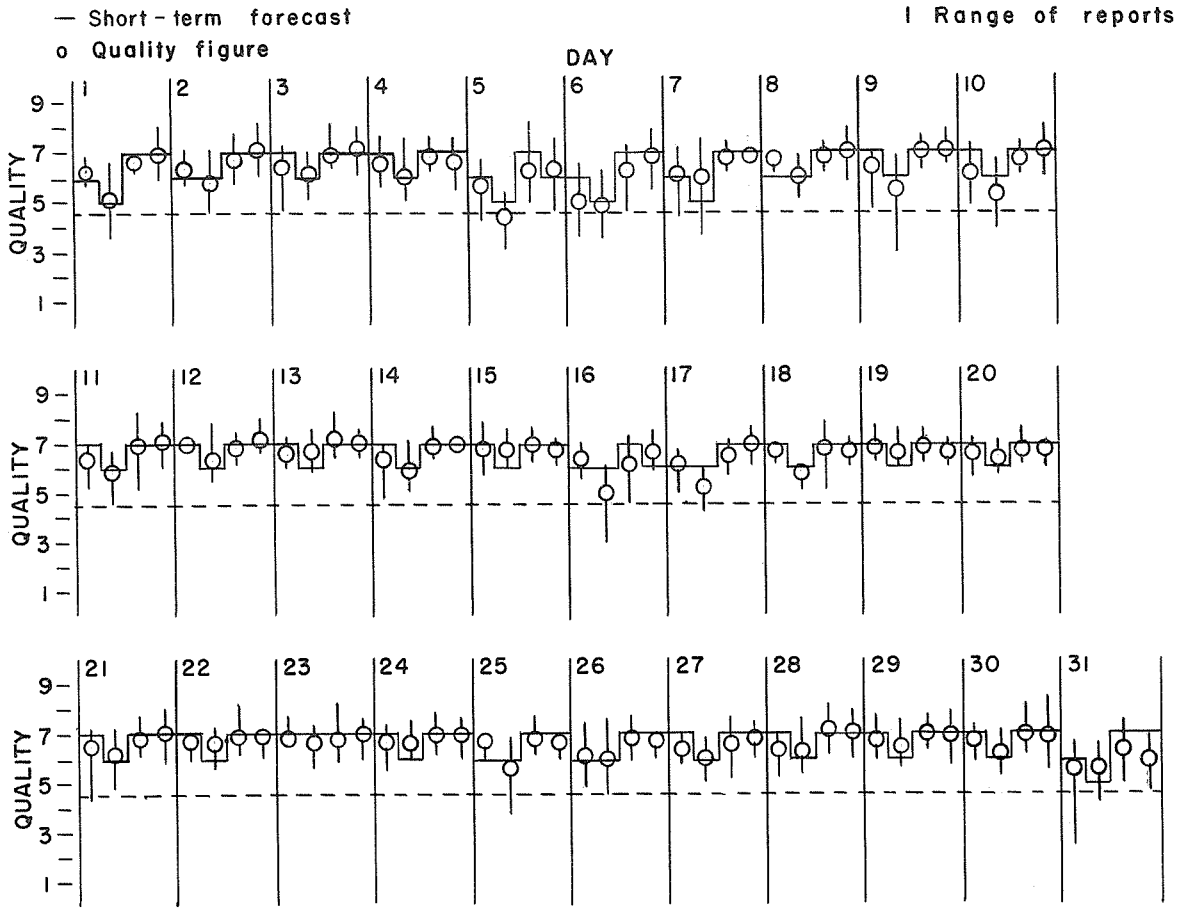
1) THE ADVANCE J_C-FORECASTS ARE SCORED AGAINST THE AVERAGE HIGH LATITUDE WHOLE-DAY INDICES

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

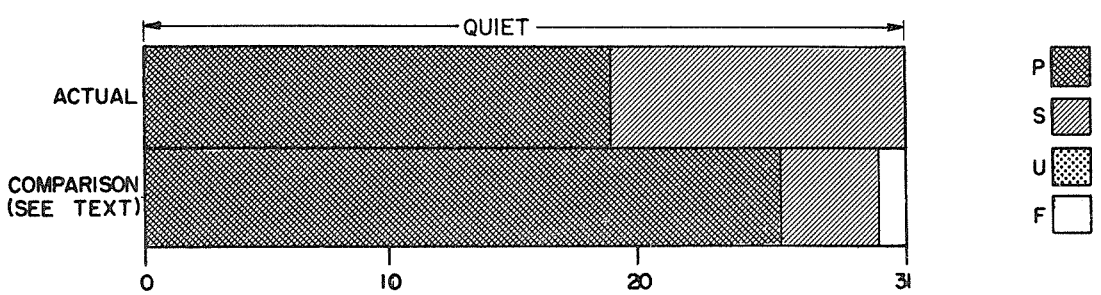
RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

OCTOBER 1966

NORTH ATLANTIC

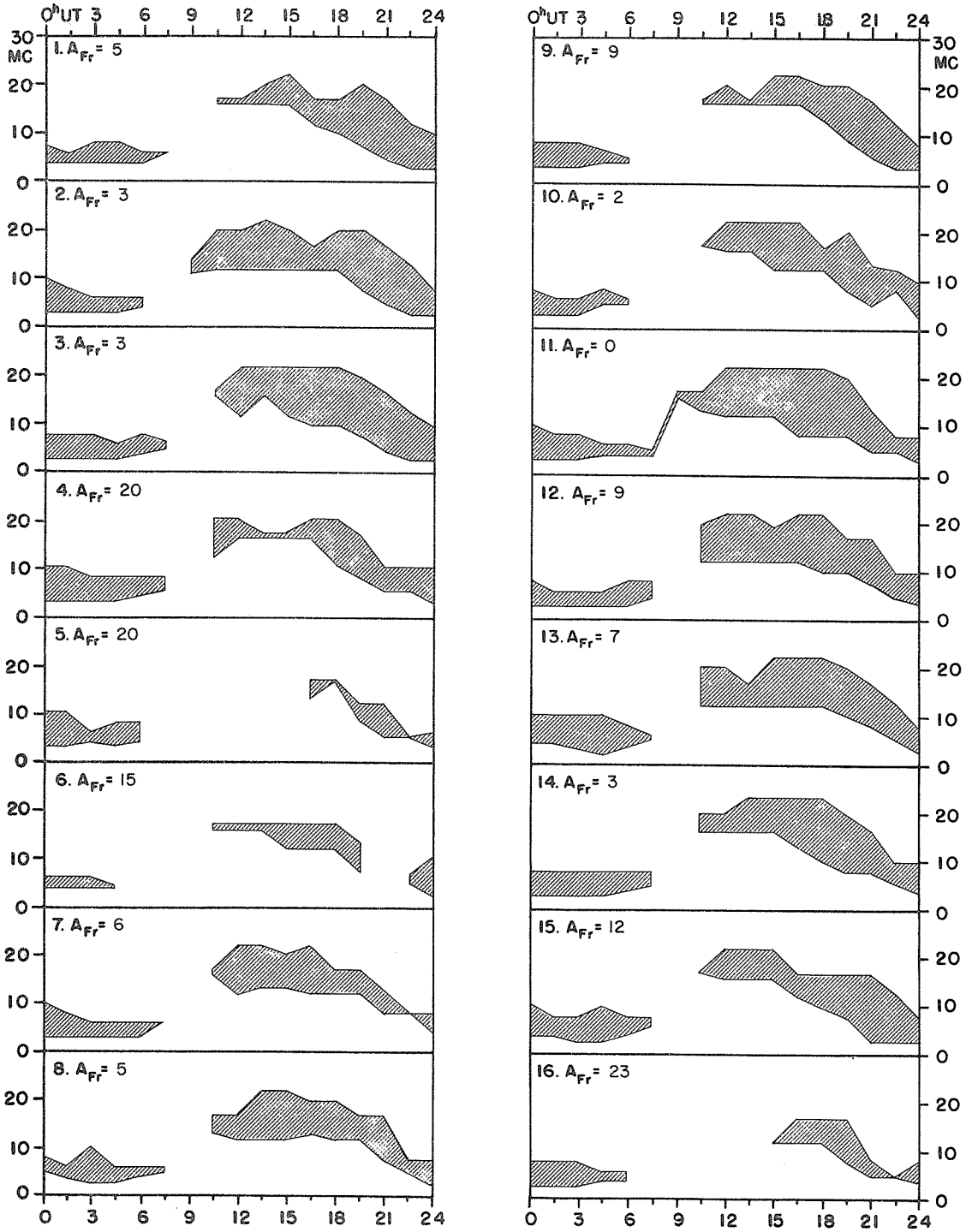


HIGH LATITUDE



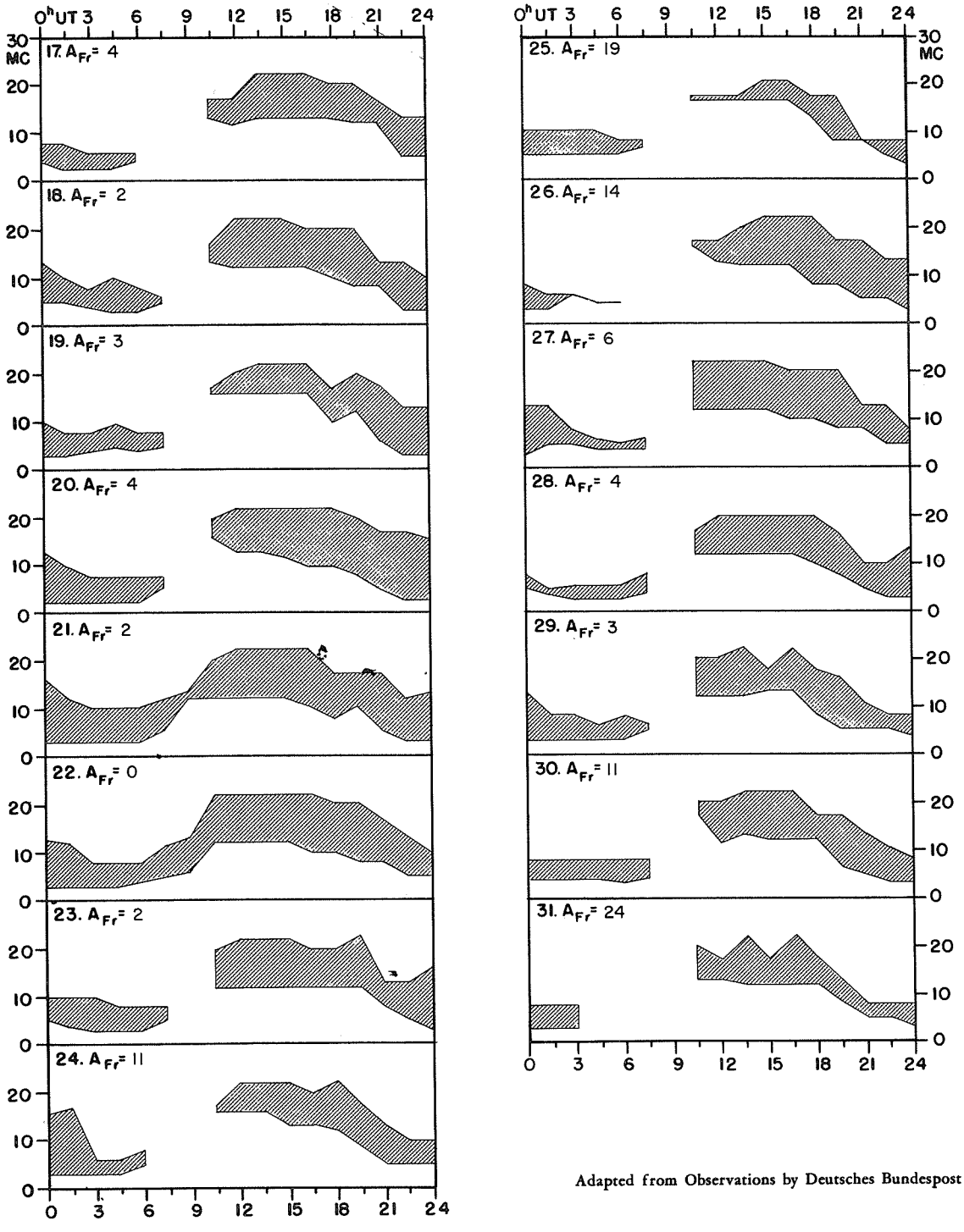
VIIc USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

OCTOBER 1966



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH VIId

OCTOBER 1966



Adapted from Observations by Deutsches Bundespost

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

NOVEMBER 1966

Nov. 1966	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
1	0400		429	Strat. Warming*	Exists	Antarctica Wilkes-Mirny region
2	0400		430	Strat. Warming	Exists	Antarctica Hallett-Pole-Mirny spreading
3	0400		431	Strat. Warming	Exists	Antarctica Hallett-Pole-Mirny
4	0400		432	Strat. Warming	Exists	Antarctica Hallett-Pole-Mirny
5	0400		433	Strat. Warming	Exists	Antarctica Molodezhnaya-McMurdo-Byrd
6	0400		434	Strat. Warming	Exists	Antarctica Molodezhnaya-McMurdo-Byrd
7	0400		435	Strat. Warming	Exists	Antarctica Molodezhnaya-McMurdo-Byrd
8	0400		436	Strat. Warming	Exists	Antarctica spreading
9	0400		437	Strat. Warming	Exists	Antarctica spreading
10	0400		438	Strat. Warming	Exists	Antarctica
11	0400		439	Strat. Warming	Ends	Antarctica vernal circulation change progressing

* Strat. = Stratospheric