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INSTITUTES FOR ENVIRONMENTAL RESEARCH

Solar-Geophysical Data

for January 1967
December 1966
August 1966
& Miscellanea

DATA COMPILED BY THE INSTITUTE FOR TELECOMMUNICATION SCIENCES AND AERONOMY
BOULDER, COLORADO

WASHINGTON, D.C.
FEBRUARY 1967

Table of Contents
for January 1967 Data

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ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

JANUARY 1967

Jan. 1967	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
2	2310	Sac Peak, Solar Flare 2B S22E08				
3	0400		450	Solar Flares	Expected	S23W10
4	0400		451	Solar Flares	Expected	S23W23
5	0400		452	Solar Flares	Expected	S23W36
6	0400		453	Solar Flares	Expected	S18W01
7	0400		454	Solar Flares	Alert Ends	
8	0400		455	Magnetic Storm	07/09xxZ	
9	0400		456	Magnetic Storm	Alert Ends	
14	0400		457	Magnetic Storm	13/1202Z	Major
15	0400		458	Magnetic Storm	Alert Ends	
29	0400		459	Magnetic Storm	Expected	
30	0400		460 461	Solar Flares Magnetic Storm	Expected Expected	S24W07 N18W66
31	0400		462 463	Solar Flares Magnetic Storm	Expected Alert Ends	S24W20 N18W79 N28E85

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

1966 (PROVISIONAL) 1967

DAY	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.
1	7	25	64	50	71	49	78	44	57	43	35	60
2	9	11	58	48	74	49	62	44	55	42	33	93
3	20	11	74	57	41	54	65	25	50	33	30	124
4	17	18	74	61	60	53	51	18	36	38	57	148
5	17	12	55	38	43	48	53	26	40	20	69	150
6	17	14	59	23	43	46	50	30	44	32	68	148
7	16	10	70	13	38	58	31	36	53	48	64	134
8	13	9	65	16	35	68	13	38	48	51	88	116
9	10	15	47	8	33	56	7	39	44	56	86	111
10	11	13	37	0	25	58	0	37	65	62	112	111
11	14	10	25	14	43	52	16	42	66	72	125	104
12	8	0	27	14	34	62	36	38	49	80	130	90
13	16	0	24	23	34	56	30	29	72	68	118	86
14	12	0	29	52	31	37	37	35	64	66	113	85
15	16	9	29	46	22	34	41	38	60	62	107	56
16	13	26	35	47	40	48	36	57	70	44	116	56
17	19	44	40	33	46	42	35	76	70	54	74	59
18	24	53	40	27	39	49	35	83	70	51	58	72
19	32	60	24	34	33	38	27	76	66	61	40	82
20	39	54	37	57	42	65	24	78	81	70	37	82
21	41	49	40	80	29	55	22	89	96	72	34	102
22	50	52	56	66	34	66	38	86	81	82	32	134
23	55	40	69	68	59	56	65	71	70	76	38	152
24	42	31	58	68	63	70	71	62	61	72	42	122
25	37	23	56	64	80	67	89	68	50	74	60	133
26	36	18	54	70	78	74	95	54	44	67	65	136
27	35	10	40	66	69	52	90	48	39	59	43	130
28	31	12	40	60	52	61	84	35	28	41	41	125
29		35	48	39	47	76	89	40	25	37	48	122
30		42	52	58	55	63	76	38	24	37	76	132
31		52		56		66	66		35		74	108
MEAN	23.5	24.5	47.5	43.7	46.4	55.7	48.8	49.3	55.3	55.7	68.2	108.5

DAILY SOLAR FLUX AT 2800 Mc/s
OTTAWA ARO

FLUX ADJUSTED TO 1 A.U., S_a

1966 1967

DAY	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.
1	77.6	79.7	106.8*	91.7	104.8	100.1	125.9	116.6	101.4	94.6	92.2	124.4
2	76.9*	76.7	106.3	94.0	103.9	98.2	119.6	106.3	102.0	96.7	95.1	143.0*
3	77.5	75.8	102.1	94.0	102.6	99.3	118.2*	103.2	103.2	93.1		154.0
4	79.0	75.5	102.6	92.5	102.0	104.8	116.0*	101.9	100.6*	91.7	104.8	160.7
5	80.6	74.8	102.0	88.6	101.7	105.0	110.5	100.5	100.0	97.9	110.9*	168.2
6	82.1	75.5	104.2	87.5	101.9	109.7	106.0	97.9	101.9*	104.7	115.6*	160.5
7	82.8	76.2	102.8*	89.9	96.9	112.6	101.5	95.8*	103.1	113.4	117.7	153.6
8	82.3	76.4	107.3*	87.8	99.5	114.4	97.7	96.2*	99.4	116.9	123.7	142.9
9	82.9	78.5	100.3	87.5	98.9	107.8	96.4	95.3	103.5	117.2	146.2	144.7
10	83.8	78.6	94.8	86.6	96.8	108.1*	94.3	93.9	106.5	121.9	157.3*	145.6
11	83.6*	78.0	93.9	88.3	96.1	109.0	92.5	96.6	109.8	126.1	162.8*	139.8
12	83.2	78.3	94.8	92.6	95.9	102.7	92.8	100.8*	114.8	126.2	157.6	139.1
13	83.9	80.0	93.1	92.9	96.1	100.4	93.2	102.4	122.8*	126.4	155.5	138.1
14	83.9	81.4	91.0	97.2	96.9	99.8	92.8	107.4	120.3	124.0	149.5	135.2
15	83.3	87.1*	96.3	99.2	94.7	101.1	93.7	112.0	120.6	122.6	144.9	126.6
16	82.7	92.9*	93.2	100.1	97.9	102.8	95.1	124.6*	120.3*	121.2	135.1	120.2
17	82.1	105.1*	95.2	98.9	99.5	101.2	96.8	129.1	120.5*	113.2	124.9*	116.9
18	82.2	109.6	92.9	98.7	98.2	101.3	97.5	142.6	118.5*	113.4	111.2	117.4
19	81.1	114.6	89.0	107.1*	96.9	101.5	100.0	146.6	115.6*	111.0	112.3	116.4
20	82.8*	111.0	93.5	115.5*	94.3	101.8	101.6	146.0*	124.1	110.9	107.6	127.0
21	85.7	120.3	91.7	123.6	93.5	103.7	102.7	137.2	120.9*	110.7*	106.5	138.2
22	86.0	105.1	93.4	121.0	96.1	106.5	105.5	131.5*	119.8*	116.5	105.5*	139.9
23	82.7*	96.2	98.8	113.9	99.2	114.9	114.7	127.5*	111.1	114.7*	110.6*	148.8*
24	81.9	92.9	103.7	117.7	103.5	120.6	122.0*	126.0	106.1	113.8	110.5	146.8
25	79.3	91.1	103.8*	115.1	104.8*	126.0	126.3*	118.8*	100.8	110.7	111.6	142.7*
26	83.1	84.7	101.3*	112.3	105.6*	127.6	130.2	109.4	97.7	107.3	110.9	154.3
27	83.2	83.1	96.0	108.5	100.8	123.8	133.4	102.9	92.0	111.1*	109.6	158.3
28	84.1	87.6	94.9	**	101.4	124.2	132.6*	97.9	94.1	104.1	107.5	156.2
29		96.1	94.5	106.8	99.8	132.9	129.8	98.6	99.7	98.0	109.3	158.2*
30		99.0	93.3	101.6	100.7	128.0	126.1	95.7	95.7	94.6*	115.1	159.0
31		110.4		105.6		124.6	120.9		97.1		120.5*	156.4
MEAN	82.1	89.4	97.8	100.6	99.4	110.1	109.2	112.4	107.9	110.8	121.4	143.0

* Adjusted for Burst

** Burst in Progress

DAILY SOLAR INDICES

JANUARY 1967

Jan. 1967	Year Day	Bartels 27-day Cycle Number	Sunspot Numbers		Observed Flux	Solar Flux Adjusted to 1 A.U.					
			R_Z	$R_{A'}$	Ottawa 2800	AFCRL 8800	AFCRL 4995	Ottawa 2800	AFCRL 2695	AFCRL 1415	AFCRL 606
1	1	23	60	78	128.7	290	177	124.4	129.1	89.4	56.3
2	2	24	93	75	147.9*	306	191	143.0*	149.3	97.0	59.6
3	3	25	124	130	159.3	315	216	154.0	165.7	104.4	60.3
4	4	26	148	126	166.2	318	212	160.7	168.5	106.7	63.8
5	5	27	150	145	174.0	320	217	168.2	176.4	110.7	65.7
6	6	1	148	142	166.0	309	207	160.5	168.7	109.9	65.5
7	7	2	134	117	158.9	310	200	153.6	162.8	110.6	66.7
8	8	3	116	90	147.8	305	183	142.9	144.0	106.3	62.5
9	9	4	111	96	149.6	307	184	144.7	146.1	102.5	62.5
10	10	5	111	89	150.6	301	184	145.6	152.7	97.8	58.9
11	11	6	104	88	144.6	298	176	139.8	141.8	93.3	56.3
12	12	7	90	78	143.9	298	176	139.1	140.3	91.7	57.0
13	13	8	86	101	142.8	291	168	138.1	139.9	90.1	55.8
14	14	9	85	72	139.8	289	164	135.2	137.7	86.1	56.2
15	15	10	56	46	130.9	281	146	126.6	124.5	79.7	51.9
16	16	11	56	53	124.2	279	149	120.2	124.5	77.3	53.5
17	17	12	59	54	120.8	276	146	116.9	116.6	76.9	53.1
18	18	13	72	68	121.3	279	148	117.4	119.6	77.4	51.4
19	19	14	82	77	120.3	283	154	116.4	128.9	82.1	52.7
20	20	15	82	102	131.2	284	157	127.0	136.8	84.7	54.3
21	21	16	102	130	142.8	290	158	138.2	142.1	91.2	55.4
22	22	17	134	119	144.4	293	161	139.9	145.2	96.6	55.5
23	23	18	152	150	153.6*	299	166	148.8*	149.6	101.8	56.8
24	24	19	122	128	151.5	296	166	146.8	144.9	97.6	57.8
25	25	20	133	115	147.3*	300	168	142.7*	148.2	101.1	58.6
26	26	21	136	149	159.2	308	171	154.3	149.9	101.4	59.3
27	27	22	130	104	163.2	318	182	158.3	156.2	101.8	60.6
28	28	23	125	89	161.0	318	180	156.2	157.5	103.2	60.5
29	29	24	122	106	163.1*	322	189	158.2*	162.3	103.6	62.1
30	30	25	132	114	163.9	318	193	159.0	167.2	107.6	63.7
31	31	26	108	112	161.1	315	182	156.4	158.8	104.9	63.2
Mean			108.5	101.4	147.7	301	177	143.0	146.8	96.3	58.6

* Adjusted for Burst

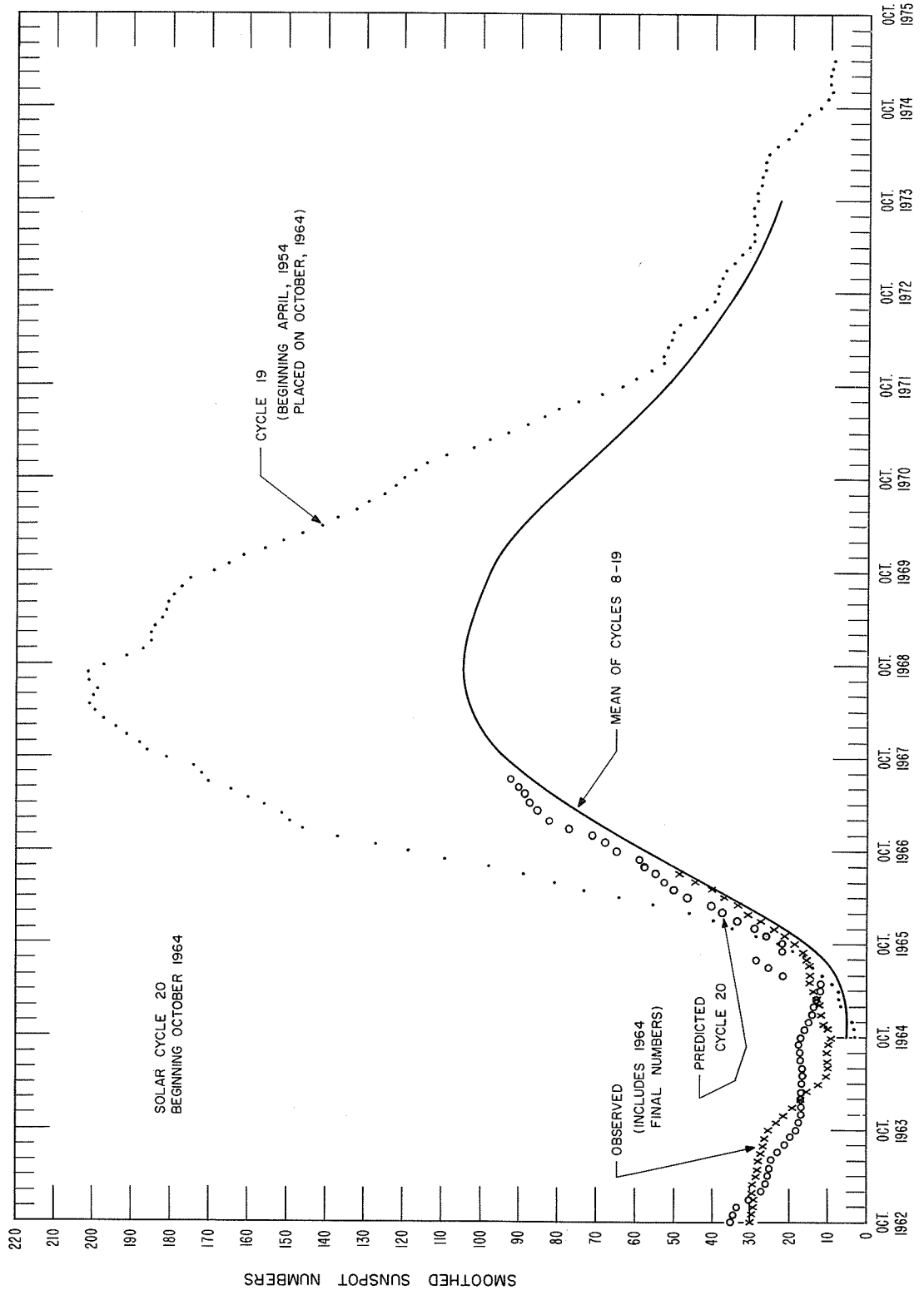


FIG. A PREDICTED AND OBSERVED SUNSPOT NUMBERS

SMOOTHED OBSERVED SUNSPOT NUMBERS
ZURICH, R_Z

	1964	1965	1966
JAN		11.7	27.1
FEB		12.0	30.5
MAR		12.5	33.6
APR		13.6	36.4
MAY		14.6	39.5
JUN		15.0	43.3
JUL		15.4	48.8
AUG		16.2	
SEP		17.1	
OCT	9.6	19.4	
NOV	10.2	21.9	
DEC	11.0	24.0	

CALCIUM PLAGE AND SUNSPOT REGIONS

JANUARY 1967

Jan. 1967	LAT.	MCMATH PLAGE NUMBER	RETURN OF REGION	CALCIUM PLAGE DATA						SUNSPOT DATA		
				CMP VALUES		HISTORY	AGE (ROTATIONS)	DATE FIRST SEEN	DURATION (DAYS)	CMP VALUES		HISTORY
				AREA	INT.					AREA	COUNT	
1.9	N16	8628	8601	(1600)	(2.0)	ℓ Λ ℓ	2	12/25	15	(10)	(2)	b - d
2.3	S23	8629	New	1800	3.5	b / ℓ	1	≤12/29	≥11	270	56	b ⌜ ℓ
4.7	N24	8634	8604	(400)	(2.0)	ℓ Λ d	3	12/29	11			
5.0	S07	8630	New	(500)	(1.5)	ℓ - d	1	12/29	2			
6.5	N06	8633	8606	(2300)	(3.0)	ℓ Λ ℓ	5	12/31	13	10	5	ℓ Λ d
6.7	N20	8631	8607	(8500)	(3.0)	ℓ Λ ℓ	6	12/29	15	(150)	(13)	ℓ - ℓ
6.9	S23	8632	8609	5800	3.5	ℓ Λ ℓ	2	12/31	15	500	36	b Λ ℓ
8.4	N14	8638	New	1000	2.5	? ⌜ ℓ	1	≤1/5	≥10	(10)	(2)	b Λ ℓ
9.4	N32	8637 (1)	New	3000	3.0	ℓ Λ ℓ	1	1/2	14	20	1	ℓ ⌞ d
9.9	N22	8639	8610	2600	3.5	ℓ Λ ℓ	2	<1/5	>11	460	2	b / ℓ
10.8	S07	8640	New	(200)	(2.0)	? - d	1	≤1/5	≥1			
10.9	N26	8643	8615	(1900)	(2.0)	ℓ \ ℓ	2	≤1/9	>7			
11.8	N14	8644 (2)	New	700	3.0	b ⌜ ℓ	1	1/9	9	10	4	b / d
13.1	N25	8641	8612	2900	2.5	ℓ Λ ℓ	4&5	1/7	13			
14.2	S15	8642	New	(300)	(1.0)	ℓ - d	1	1/7	2			
14.4	N15	8645	New	500	2.0	b - d	1	1/9	7			
16.0	N26	8646 (3)	8612	1200	1.5	ℓ \ ℓ	4	1/9	13			
16.2	S23	8647	New	2500	3.0	ℓ ⌜ ℓ	1	1/11	11	500	5	b Λ ℓ
17.5	N22	8653	New	(300)	(1.5)	b - d	1	1/18	1			
18.2	N24	8648	New	1000	2.5	ℓ ⌜ ℓ	1	1/12	12	50	4	b - ℓ
19.4	N24	8660	New	(600)	(3.0)	b \ d	1	1/21	3			
20.8	N29	8649 (4)	8618	600	2.0	ℓ \ d	4	1/14	12			
21.1	N12	8654	New	1500	3.0	b / ℓ	1	1/18	>8	60	30	b \ d
22.6	N16	8650 (5)	New	(4400)	(3.0)	ℓ Λ ℓ	1	1/16	13	70	20	ℓ ⌞ ℓ
22.7	N27	8655	New	(600)	(2.5)	b - d	1	1/18	6			
22.9	S17	8651	New	(2400)	(3.0)	ℓ ¬ ℓ	1	1/16	13	10	3	b - d
23.2	S24	8652	8622	700	2.0	ℓ - ℓ	2	1/16	13			
24.0	N08	8664	New	200	1.5	b - d	1	1/23	3	30	12	b Λ d
24.8	N30	8658	New	(700)	(1.5)	ℓ ⌟ d	1	1/19	≥7			
25.1	N18	8659 (6)	8625	8900	3.5	ℓ Λ ℓ	3	1/18	13	40	1	ℓ / ℓ
25.4	N02	8669	New	200	2.5	b Λ ℓ	1	1/25	6			
25.7	S26	8657 (7)	8624	800	2.0	ℓ ⌞ ℓ	2	1/18	13			
26.1	S18	8661	New	300	2.0	ℓ - ?	1	1/21	>10	10	2	b - d
27.5	S26	8662 (7)	8624	(900)	(1.5)	ℓ - d	2	1/21	>10			
27.5	N19	8663	New	(1100)	(3.0)	ℓ \ d	1	1/21	>10	10	5	ℓ - d
28.5	N15	8666 (8)	8628	600	1.5	ℓ - d	3	<1/23	>6			
29.4	N17	8668 (8)	8628	300	1.5	ℓ ⌞ ℓ	3	1/23	11			
29.7	S24	8667	8629	5200	3.5	ℓ Λ ℓ	2	1/23	≥12	280	17	ℓ Λ ℓ
31.7	N21	8670	New	(3600)	(3.5)	ℓ Λ ℓ	1	1/25	13	30	15	b Λ ℓ

(1) Region 8637 is a new plage that has developed near the location of region 8615 of the previous rotation.
(2) Region 8644 has developed on the disk as a new region, although it is in the same position of region 8616 of the previous rotation.
(3) Region 8646 is a part of region 8612 of the previous rotation.
(4) Region 8649 is a part of region 8618 of the previous rotation.
(5) Region 8650 is primarily a new region, although it has developed over a part of region 8623 of the previous rotation.
(6) Region 8659 is a return of region 8625, but there has been a resurgence of activity, with the development of additional new plage.
(7) Regions 8657 and 8662 are parts of region 8624 of the previous rotation.
(8) Regions 8666 and 8668 are parts of region 8628 of the previous rotation.

No calcium spectroheliograms were secured at the McMath-Hulbert observatory on Jan. 1, 3, 4, 6, 10, 22, 24, 26, 27, 31, 1967.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

JANUARY 1967

JAN. 1967	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	1955	S23	W57	(αp)3	16198
		S22	E02	(βp)4	16203
		N18	E46	(αp)4	16204
		N14	E47	(β) 2	16205
		N05	E60	(βp)2	16206
		S20	E62	(αp)1	16207
2	1905	S23	W68	αp	16198
		S21	W10	βp	16203
		N19	E35	αp	16204
		N15	E35	β	16205
		N05	E48	βp	16206
		S19	E47	βp	16207
		N17	E51	β	16208
3	1730	S23	W80	(αp)2	16198
		S22	W23	(βγ)5	16203
		N18	E22	(αp)5	16204
		N15	E21	(βf)2	16205
		N04	E35	(βp)3	16206
		S21	E33	(βp)3	16207
		N17	E37	(βp)4	16208
		N29	E77	(αp)3	16209
		N16	W18	(βγ)4	16210
4	1915	S23	W36	(βγ)5	16203
		N18	E07	(βp)5	16204
		N16	E08	(βf)1	16205
		N04	E20	(βγ)3	16206
		S20	E18	(βp)4	16207
		N16	E22	(βp)3	16208
		N29	E62	(βp)3	16209
		N15	W32	(βp)4	16210
		N28	E31	(αp)1	16211
5	1930	S22	W50	(βp)5	16203
		N18	W06	(βp)5	16204
		N16	W02	(βf)1	16205
		N04	E07	(βγ)2	16206
		S19	E05	(βγ)5	16207
		N16	E08	(βp)3	16208
		N30	E51	(βp)3	16209
		N16	W45	(βp)4	16210
		N23	E50	(βp)2	16212
		N13	E34	(βp)1	16213
6	1715	S24	W61	(βp)5	16203
		N18	W18	(αp)5	16204
		N16	W14	(βp)2	16205
		N04	W04	(αp)1	16206
		S19	W08	(βγ)5	16207
		N16	W04	(βp)2	16208
		N30	E38	(βp)4	16209
		N15	W57	(βp)4	16210
		N22	E38	(βp)3	16212
		N13	E21	(βp)2	16213
7	2115	S23	W75	β	16203
		N18	W32	αp	16204
		N17	W30	βp	16205
		N06	W18	αp	16206
		S19	W23	βp	16207
		N16	W19	βp	16208
		N30	E24	βp	16209
		N16	W70	βp	16210
		N22	E23	βp	16212
		N12	E02	αp	16213
		N22	W10	βp	16214
		S19	W06	αp	16215
8	2310	S25	W88	αf	16203
		N18	W57	(αp)4	16204
		N16	W48	(αp)1	16205
		S18	W37	(βp)4	16207
		N17	W37	(αp)2	16208
		N30	E11	(βp)3	16209
		N22	E09	(δ)4	16212
		N13	W11	(βp)1	16213
		N22	W25	(βf)1	16214
9	1705	N18	W56	(αp)5	16204
		N16	W56	(βγ)2	16205
		S18	W46	(βp)4	16207
		N30	W03	(αp)4	16209
		N22	W02	(βp)5	16212
		N13	W21	(βγ)4	16213
		N28	E18	(αp)1	16216
		N14	W14	(βp)2	16217
10	2045	N18	W70	(αp)4	16204
		N16	W70	(αp)2	16205
		S18	W61	(βp)3	16207
		N30	W18	(αp)2	16209
		N22	W16	(βp)4	16212
		N14	W36	(β)4	16213
		N15	E14	(αp)1	16218
11	1910	N17	W87	αp	16204
		S18	W75	(βp)2	16207
		N29	W32	(αp)2	16209
		N23	W28	(βp)4	16212
		N13	W48	(βp)4	16213
		N15	W0E	(βp)3	16218
		S28	W55	(αp)1	16219
		S24	E59	(βp)2	16220
12	1610	N29	W44	(αp)2	16209
		N23	W41	(βp)4	16212
		N13	W61	(βp)3	16213
		N15	W13	(βp)2	16218
		S23	E45	(βp)4	16220

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

JANUARY 1967

JAN. 1967	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
13	2350	N27	W66	(αp)2	16209
		N22	W57	(βp)3	16212
		N13	W80	(βp)3	16213
		N15	W28	(βp)3	16218
		S32	W78	αp	16219
		S23	E29	(βp)4	16220
		N23	E54	(αp)2	16221
14	1620	N28	W73	(βp)1	16209
		N23	W66	(βp)4	16212
		N13	W86	αp	16213
		N16	W38	(βp)4	16218
		S23	E18	(βp)5	16220
		N22	E45	(βp)4	16221
15	2115	N15	W55	(βp)4	16218
		S24	E04	(βp)5	16220
		N22	E30	(βp)4	16221
16	2230	N14	W73	(αp)3	16218
		S25	W10	(βp)5	16220
		N21	E16	(βp)4	16221
		N15	E76	(βp)2	16222
		S17	E82	αp	16223
17	1720	N14	W87	αp	16218
		S25	W21	(βp)5	16220
		N21	E06	(βp)4	16221
		N16	E65	(βγ)3	16222
		N13	E65	(βp)2	16224
		S15	E66	αp	16225
18	1900	S25	W34	βp	16220
		N21	W09	βp	16221
		N15	E47	βf	16222
		N14	E51	β	16224
		N13	E72	αp	16226
19	2245	S23	W49	βp	16220
		N23	W25	αp	16221
		N16	E33	βf	16222
		N16	E39	αp	16224
		N14	E58	αp	16226
		N19	E75	β	16227
		N12	E14	βf	16228
20	1700	S23	W57	(βp)5	16220
		N23	W35	(αp)5	16221
		N17	E23	(βp)1	16222
		N16	E30	(αf)5	16224
		N15	E50	(βp)4	16226
		N18	E61	(βp)4	16227
		N16	E60	(βγ)3	16229
		S17	E34	(αp)2	16230
21					
22	No obs.				
23					
24					
26	1900	N16	W47	(βγ)3	16224
		N15	W31	(αp)5	16226
		N17	W17	(βγ)4	16229
		N20	W20	(βf)2	16227
		N24	W51	(βp)2	16231
		N21	W03	(αf)1	16232
		N02	W21	(βf)2	16233
		N21	E72	(βp)5	16234
		S22	E34	(αp)5	16235
27	1615	N15	W64	(βf)2	16224
		N17	W42	(αp)5	16226
		N21	W28	(βf)5	16227
		N19	W30	(βp)5	16229
		N19	E59	(βp)4	16234
		S23	E22	(αp)6	16235
		S23	W23	(βf)1	16236
28	No obs.				
29	2100	N15	W71	αp	16226
		N20	W60	βf	16229
		N21	W45	αf	16232
		N20	E31	βp	16234
		S22	W07	βp	16235
		N17	E12	αp	16237
		N16	E47	β	16238
		N14	E67	β	16239
		S25	E56	βp	16240
30	No obs.				
31	1735	N20	W70	(β)2	16232
		N20	E05	(βp)4	16234
		S21	W30	(αp)4	16235
		N14	E21	(βp)4	16238
		N13	E47	(β)1	16239
		S16	E70	(αp)3	16241
		N26	E70	(αp)3	16242

SOLAR FLARES

PRELIMINARY

JANUARY 1967

OBSERV-ATORY	OBSERVED UT DATE 1967 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
MONT	01	0805E	0858		S21	E11	.357	8629	2.2	53D	1F		C	0807	1.55	2.90			OT
MONT	01	1034	1100	1039	N18	E56	.857	8631	5.6	26	1B		C	1039	.52	2.10			O
CAPS	01	1037E	1056D		N15	E57	.859		5.7	19D	-N	2		1041	.80	1.50		176	C
CATA	01	1045E	1130D	1100	N19	E60	.890		5.9	45D	-N			1100	.66			162	
MONT	01	1109	1150		S21	E10	.349	8629	2.2	41	1F		C	1111	1.55	3.60			OT
SACP	01	2156	2234	2210	S22	E04	.332	8629	2.2	38	1N		C		2.46	2.44			
LOCK	01	2157	2220	2207	S21	E04	.316		2.2	23	-F		C	2207	1.00	1.10		10	J
HALE	01	2159	2237	2204U	S22	E03	.329	8629	2.1	38	-N	1	C	2204	1.44	1.50			F
HUAN	01	2202E	2211		S22	E04	.332		2.2	9D	-N	1	P	2205	1.13	1.13			E
MANI	02	0354E	0419	0405	S21	W01	.307	8629	2.1	25D	1N	1		0405	3.35	3.50			
LOCK	02	1733	1753	1737	S28	E67	.929	8632	7.8	20	1F		C	1737	1.00	2.30		10	
HUAN	02	2124	2136D		S22	W11	.370	8629	2.1	12D	1F	1	P	2136	2.37	2.38			
LOCK	02	2128	2156	2140	S25	W10	.405		2.1	28	-N		C	2140	1.40	1.50		20	
SACP	02	2130	2139D				.054		2.9	9D	2		S						
HALE	02	2130	2156	2139	S23	W11	.384	8629	2.1	26	-B	2	C	2139	.93	1.00			
MONT	03	0833	0842	0835	S26	W13	.438		2.4	9	-B		C	0835	.52	1.20			OT
ARCE	03	0838	0850	0842	S26	W14	.445	8629	2.3	12	1N		C	0842	1.88	2.10			C
CATA	03	0840E	0900D	0842	S25	W15	.440		2.2	20D	-B			0842	1.38	1.60		224	
MONT	03	0842	0850	0845	S26	W13	.438		2.4	8	-B		C	0845	.52	1.20			OT
MONT	03	1033	1107		N17	W12	.398	8628	2.5	34	1N		C	1035	.93	2.20			OTH
CATA	03	1040E	1100D	1046	N17	W13	.405		2.4	20D	-N			1045	1.55	1.70		174	
CAPS	03	1131E	1227D		N13	E28	.533	8631	5.6	56D	1B	1							
HUAN	03	1133E	1211D		N16	E26	.532		5.4	38D	-N	1	C	1139	1.39	1.46			E
MONT	03	1137E	1200		N17	E29	.574	8631	5.7	23D	1N		C	1140	.83	2.20			O
MONT	03	1315	1400	1320	S23	W22	.486		1.9	45	-B		C	1320	.77	1.90			OTH
HUAN	03	1316	1324	1318	S22	W27	.533		1.5	8	-F	2	C	1318	.88	.92			E
HUAN	03	1329	1352	1336	S22	W27	.533		1.5	23	-N	2	C	1336	.75	.79			E
WEND	03	1336E	1352		S23	W26	.530	8629	1.6	16D	1N		P		4.13				
HUAN	03	1351	1358	1354	S24	W17	.446		2.3	7	-B	2	C	1354	.36	.37			D
WEND	03	1352	1400		S24	W16	.436	8629	2.4	8	1F				3.09				
CAPS	03	1353	1358		S24	W15	.428		2.5	5	-N	3		1355	.50	.60		176	
CAPS	03	1332E	1349D		N14	W13	.367		2.6	17D	-F	3		1337	1.20	1.30		157	
HUAN	03	1332	1358	1336	N15	W17	.420		2.3	26	-N	2	C	1336	.83	.83			E
WEND	03	1336E	1356		N14	W18	.420	8628	2.2	20D	1F		P		6.19				
SACP	03	1431	1510	1435	S26	W18	.478	8629	2.3	39	1N		C		2.94	3.01			
SACP	03			1440															
HUAN	03	1432	1440	1434	S26	W17	.470		2.3	8	-N	2	C	1434	.70	.72			E
HUAN	03	1438	1453	1440	S24	W24	.517		1.8	15	-F	1	C	1440	.75	.78			E
LOCK	03	1705	1725	1713	S19	W29	.536		1.5	20	-F		C	1713	.30	.40		10	H
LOCK	03	1713	1814	1720	S23	W27	.541		1.7	61	-N		C	1720	1.20	1.40		20	
SACP	03	1734	1811	1754	S21	W28	.538	8629	1.6	37	1B		C		3.35	3.52			
HUAN	03	1738	1753D		S24	W26	.538	8629	1.8	15D	1N	1	P	1746	.79	.83			E
HUAN	03													1753	1.24	1.30			
LOCK	03	1743	1820	1755	S19	W30	.549	8629	1.5	37	1N		C	1755	2.80	3.40		20	H
LOCK	03	1820	1910	1853	N29	E82	.996	8637	9.9	50	1N		C	1853	.90	3.10		20	
SACP	03	1832	1905	1842	N31	E79	.991		9.7	33	-N		C		.90				
LOCK	03	1840	1913	1852	N15	W90	1.000	8625	28.0	33	1F		C	1852	1.20	4.80		10	
LOCK	03	2305	0015D	2332	S23	W32	.598	8629	1.6	70D	2F		C	2332	4.00	5.20		10	H
MITK	03	2354	2358	2357	S24	W32	.605		1.6	4	-N		C	2357	.93	1.20			E
MANI	03	2355E	2400		S21	W33	.597		1.5	5D	-N	1		2358	.62	.77			
LOCK	03	2355	0015D	0003	S17	W30	.537		1.7	20D	-N		C	0003	.90	1.10		20	H
MITK	04	0001	0015	0005	S22	W30	.567		1.8	14	-N		C	0005	1.24	1.50			EH
MITK	04	0204	0215	0208	S20	W33	.591	8629	1.6	11	1N		C	0208	3.09	3.90			H
MANI	04	0212E	0220		S24	W32	.604		1.7	8D	-N	2		0214	.93	1.16			
MITK	04	0325	0340	0326	S25	W34	.632	8629	1.6	15	2F		C	0326	4.23	5.40			FH
BUCA	04	0845E	0910D		S19	W37	.635	8629	1.6	25D	1N		P	0900	3.32	4.30			
ARCE	04	0845	0915	0857	S20	W38	.651	8629	1.5	30	1N		C	0857	1.91	2.50			HC
MONT	04	0850	0925	0855	S20	W36	.627		1.7	35	-B		C	0855	.62	1.60			OTH
ARCE	04	0903E			S20	W38	.651		1.5		-N		C	0903	1.12	1.50			O
ARCE	04	0903E			S22	W35	.626		1.8		-N		P	0903	.96	1.20			O
ARCE	04	0915E	0940D		S22	W35	.626		1.8	25D	-N		C	0930	.34	.40			D
SACP	04	1530	1632U	1541	N16	E11	.378	8631	5.5	62U	1N		C		2.16	2.14			
SACP	04			1604															
HUAN	04	1531	1622	1540	N15	E11	.364	8631	5.5	51	1F	2	C	1540	1.86	1.86			E
LOCK	04	1555E	1635	1555U	N15	E11	.364	8631	5.5	40D	1F		C	1555	2.00	2.20		10	
LOCK	04	1822	1845	1830	N35	E82	.997	8637	10.9	23	1F		C	1830	1.30	2.70		10	
SACP	04	1825	1842	1830	N34	E57	.908	8637	9.0	17	1N		C		1.72	2.86			
MITK	05	0117E	0342		S26	E33	.627	8632	7.5	145D	2F		C	0119	7.12	9.20			BFG
MITK	05	0440	0505	0445	N16	E03	.337	8631	5.4	25	1N		C	0445	2.37	2.50			E
MANI	07	0015	0034	0021	S22	W68	.929		1.9	19	-F	1		0021	.77	1.75			
MITK	07	0019	0042	0032	S22	W68	.929	8629	1.9	23	1F		C	0032	1.24				E
HALE	07	0020	0048	0024	S23	W66	.917	8629	2.1	28	-N	1	C	0024	.26				
MITK	07	0054	0129	0105	N29	E37	.746	8637	9.8	35	1F		C	0105	1.75	2.70			E
HALE	07	0100	0127	0105	N29	E39	.762	8637	10.0	27	-N	2	C	0105	.46	.70			
MITK	07	0535	0600D	0552	S26	W79	.980	8629	1.3	25D	2F		C	0552	1.96				H

SOLAR FLARES

PRELIMINARY

JANUARY 1967

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1967 JAN	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	07	0549	0627	0553	S23	W75	.965	8629	1.6	38	1N	1		0553	.93	2.20			
LOCK	07	2139	2150	2145	S26	W90	1.000	8629	1.2	11	1F		C	2145	1.10	4.40		10	H
HALE	07	2140	2154	2144	S25	W88	.998	8629	1.3	14	B	1	C	2144	.52				H
SACP	08	1744	1821	1759	N22	E12	.475	8639	9.6	37	1N		C		2.37	2.43			
LOCK	08	1745	1830	1755	N21	E11	.455	8639	9.6	45	1N		C	1755	2.20	2.40		20	
HALE	08	1758	1814	1801	N25	E14	.528	8639	9.8	16	-N	2	C	1801	.41	.50			
HUAN	08	1810E	1815D		N21	E12	.461		9.7	5D	-F	1	P	1811	1.01	1.03			E
WEND	09	1150E	1215		N22	E01	.437	8639	9.6	25D	1N				4.13				
CATA	09	1157E	1200D	1158	N24	E02	.469		9.6	3D	-N			1158	1.00	1.60		186	
HALE	09	2018	2054	2047	S22	W88	.998	8629	3.2	36	B	1	C	2047	.62				
LOCK	09	2028	2055	2033	S22	W90	1.000	8629	3.1	27	1N		C	2033	1.00	4.00		20	HK
LOCK	09			2046										2046	1.00	4.00		20	HK
LOCK	09	2201	2228	2209	S21	W90	1.000	8629	3.2	27	1N		C	2209	.90	3.60		20	H
HUAN	09	2203	2224D	2210	S22	W90	1.000		3.2	21D	-N	1	C	2210	.70				
HALE	09	2204	2218	2209	S23	W88	.998	8629	3.3	14	N	2	C	2209	.46				
HALE	09	2232	2253	2245	S23	W88	.998	8629	3.3	21	B	2	C	2245	.41				
LOCK	09	2236	2257	2245	S21	W90	1.000	8629	3.2	21	2N		C	2245	1.30	5.20		20	H
MITK	10	0035	0041	0036	N18	W64	.919	8631	5.2	6	1F		C	0036	.93				
HALE	10	0035	0043	0036	N17	W63	.911	8631	5.3	8	-B	1	C	0036	.62				
ARCE	10	0855	0940D	0900	N21	W69	.951	8631	5.2	45D	1N		C	0900	1.03	2.30			H
LOCK	10	1650	1730	1716	N20	W70	.955	8631	5.5	40	1F		C	1716	1.40	3.80		10	H
LOCK	10	1935	1955	1943	N21	W75	.976	8631	5.2	20	1F		C	1943	1.10	3.20		10	H
LOCK	10	2053	2135	2107	N22	W78	.986	8631	5.0	42	2N		C	2107	1.80	5.60		20	
HALE	11	0131	0317D	0259	S26	W47	.766	8632	7.5	106D	3B	1	P	0259	8.25	12.90			
HALE	11	0232	0317D	0251	N20	W76	.979	8631	5.4	45D	1B	1	P	0251	.62				
MANI	11	0344E	0510		S28	W42	.725	8632	8.0	86D	2F	2		0348	5.50	8.10			U
MANI	11	0348E	0352D		N10	W38	.648	8638	8.3	4D	1N	2		0348	1.96	2.60			
SACP	11	1424	1444	1428	S20	W75	.964	8632	6.0	20	1N		C		1.16	2.50			
LOCK	11	1629	1641	1634	N21	W82	.995	8631	5.5	12	1N		C	1634	.70	2.40		20	H
LOCK	11	1640	1710	1647	N15	W82	.993		5.5	30	-N		C	1647	.40	1.40		10	H
HUAN	11	1701	1710		N16	W88	1.000		5.1	9	-N	1	C	1705	.41				
ARCE	12	0815E	1000D		S23	E50	.785	8647	16.1	105D	1N		C	0945	1.40	2.30			
MANI	12	0823E	0833		S22	E50	.783		16.1	10D	-F	2		0825	.72	1.14			
MONT	12	1120E	1150		S22	E50	.783	8647	16.2	30D	1N		C	1120	1.03	3.40			OTH
MONT	13	1220	1235		N28	W60	.914	8637	9.0	15	1B		C	1222	.41	2.80			O
SACP	13	1819U	1856D	1830	S31	W79	.979	8632	7.8	37D	1N		C		.95	2.60			
HUAN	13	1827E	1905D		S31	W80	.982	8632	7.8	38D	1N	1	P	1832	1.24				
LOCK	13	1833E	1940	1833U	S32	W83	.990	8632	7.5	67D	1N		C	1833	1.20	4.10		20	
MCMA	13	1843E	1850D		S32	W80	.982	8632	7.8	7D	-F		C	1845	.52				
LOCK	13	2105	2203	2120	N16	W68	.941	8638	8.8	58	1N		C	2120	1.10	2.80		20	
LOCK	13	2322	2403	2331	S32	W83	.990	8632	7.7	41	1F		C	2331	.90	3.10		10	
MONT	14	1100	1200		N31	E90	1.001	8649	21.2	60	1N		C						O
CATA	14	1115E	1150D	1130	N32	E90	1.001	8649	21.2	35D	1N			1130	.59			174	
HERS	14	1126E	1148D	1140U	N28	E90	1.001	8649	21.2	22D	1	2		1133	1.55				AD
HUAN	14	1143E	1152		N30	E88	1.000		21.1	9D	-N	1	P	1143	.36				D
LOCK	14	1635	1750	1700	N28	E83	.997	8649	20.9	75	2N		C	1700	2.00	6.80		20	L
HUAN	14	1637	1718		N31	E85	.999		21.1	41	-N	1	C	1702	.67				
SACP	14	1640	1723	1703	N29	E77	.987	8649	20.5	43	1N		C		1.87				
SACP	14	1737	1858	1805	N15	W40	.696	8644	11.7	81	1N		C		3.03	3.53			
HUAN	14	1739	1842	1748	N15	W39	.685	8644	11.8	63	1N	1	C	1748	1.91	2.24			E
LOCK	14	1739	1845	1753	N15	W40	.696	8644	11.7	66	1B		C	1753	2.30	3.20		30	
SACP	14	2314	2359	2325	N23	W69	.954	8639	9.8	45	2N		C		2.67	5.46			
LOCK	14	2320	2405	2326	N20	W70	.956	8639	9.7	45	2B		C	2326	2.10	5.70		30	
ARCE	15	0850E	0910D	0900	N16	W49	.795		11.7	20D	-F		C	0900	1.12	1.80			
MONT	15	0905E	0950		N15	W47	.772	8644	11.9	45D	1N		C	0905	1.03	3.50			O
BUCA	15	0930E	1029D		N14	W45	.747		12.0	59D	-F		C	0950	.88	1.30			
MONT	15	1047	1105	1050	N16	W42	.724		12.3	18	-B		C	1050	.52	1.70			O
CAPS	15	1048E	1053D		N17	W41	.718		12.4	5D	-F	3		1050	1.00	1.40		147	C
BUCA	15	1048E	1059D		N16	W40	.702	8644	12.5	11D	1N		P	1050	1.66	2.30			
LOCK	15	2308	2330	2313	N16	E82	.994	8649	22.1	22	1N		C	2313	1.30	4.40		20	
SACP	15	2313	2335	2319	N20	E83	.996		22.2	22	-N		C		.99				
MITK	16	0032	0100	0040	N16	W58	.874	8644	11.7	28	1B		C	0040	1.55	3.30			E
MANI	16	0034E	0102	0043	N16	W57	.866	8644	11.7	28D	1N	1		0043	1.86	3.38			
MITK	17	0036	0041	0038	N15	W82	.994	8644	10.9	5	1F		C	0038	.62				E
LOCK	17	2307	2335	2320	N17	E61	.899	8650	22.5	28	1N		C	2320	1.00	2.10		20	
MANI	17	2315E	2336	2317	N16	E57	.867	8650	22.2	21D	1N	1		2317	1.55	2.85			
HALE	17	2317E	2342	2320	N18	E60	.894	8650	22.5	25D	-N	3	P	2320	.62	1.40			F
SACP	17	2324E	2342	2325	N17	E60	.892		22.5	18D	-F		C		.97	1.54			
HALE	18	0030E	0049		N19	E59	.889	8650	22.4	19D	1F	2	P	0030	1.03	2.30			F

SOLAR FLARES

PRELIMINARY

JANUARY 1967

OBSERV-ATORY	OBSERVED UT DATE 1967 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
MITK	18	0616	0640D	0622	N17	E55	.853	8650	22.4	24D	1F		C	0622	1.34	2.60			F
MANI	18	0617	0707	0624	N16	E54	.842	8650	22.3	50	1B	2		0624	2.17	3.80			FK
MITK	18	0635E	0649D		N20	E57	.877	8650	22.5	14D	1N		C	0638	1.55	3.10			F
MITK	18	0647E	0700D		N20	E58	.884	8650	22.6	13D	1N		C	0649	1.13	2.20			F
SACP	18	2002	2026	2010	N22	E88	1.000	8659	25.4	24	1B		C		1.05				
LOCK	18	2003	2022	2011	N21	E90	1.000	8659	25.6	19	1N		C	2011	1.10	4.40		20	
HALE	18	2004	2015	2008	N22	E88	1.000	8659	25.4	11	N	3	C	2008	1.03				
MCMA	18	2005E	2017D	2009	N18	E90	1.000	8656	25.6	12D	1B		P	2009	1.03				
LOCK	18	2119	2134	2122	N14	E82	.993	8659	25.0	15	1N		C	2122	.70	2.40		20	
LOCK	18	2225	2303	2250	N21	E90	1.000	8659	25.7	38	1F		C	2250	.60	2.40		10	
LOCK	18	2359	0023	0012	N20	E90	1.000	8659	25.7	24	1F		C	0012	.60	2.40		10	
MITK	19	0608	0640D	0625	N18	E43	.746	8650	22.5	32D	2N		C	0625	4.02	6.10			F
MANI	19	0615	0646	0630	N14	E43	.727	8650	22.5	31	1N	1		0630	2.89	3.97			F
SACP	19	1716	1741	1721	N17	E66	.932		24.7	25	-N		C		.86	1.55			
HUAN	19	1717	1730D		N17	E68	.943		24.8	13D	-B	1	P	1721	.93				
MCMA	19	1718	1752	1721	N18	E66	.933	8656	24.7	34	-B		C	1721	.62	1.60			E
HALE	19	1730E	1755	1730U	N18	E69	.950	8659	24.9	25D	1N	1	P	1730	.62				
WEND	20	1100E	1120D		S20	W58	.850	8647	16.1	20D	1F				3.09				
WEND	20	1508E	1535D		N16	E62	.905	8659	25.3	27D	1F				4.13				
SACP	20	1511	1554	1543	N15	E62	.903	8659	25.3	43	1N		C		2.01	3.28			
MCMA	20	1514	1554	1542	N16	E62	.905	8656	25.3	40	1B		C	1542	1.29	3.00			EKL
MCMA	20			1527										1527	.93	2.20			EKL
HALE	20	2043	2138	2049	N24	E62	.920	8659	25.5	55	-N	2	C	2049	.41				F
SACP	20	2044	2114	2052	N23	E64	.930	8659	25.7	30	1N		C		2.10	3.76			
LOCK	20	2057E	2127	2100U	N22	E63	.922	8659	25.6	30D	1B		C	2100	1.80	4.00		30	
MITK	21	0425	0506	0435	N19	E56	.867	8659	25.4	41	1N		C	0435	1.75	3.30			E
MITK	21	0608	0632D		N15	E55	.849	8659	25.4	24D	1F		C	0630	2.27	4.10			
MONT	21	0838	0850D	0841	N16	E55	.851	8659	25.5	12D	1N		C	0841	.62	2.30			
MANI	21	0839E	0903	0841	N14	E49	.791		25.0	24D	-N	2		0841	.57	.91			
MONT	21	1344	1355D	1347	N16	E53	.834	8659	25.5	11D	1F		C	1347	.62	2.30			
LOCK	21	2131	2200	2150	N20	E48	.803	8659	25.5	29	1B		C	2150	2.10	3.60		30	
HUAN	21	2131	2219D		N22	E48	.811	8659	25.5	48D	2N	1	C	2145	4.85	6.35			
HALE	21	2132	2225D	2146	N22	E47	.803	8659	25.4	53D	1B	2	P	2146	2.99	5.00			F
SACP	21	2133	2223	2150	N22	E47	.803	8659	25.4	50	1N		C		3.35	4.43			
HALE	22	0056	0141	0111	N14	E43	.729	8659	25.3	45	-N	1	C	0111	.83	1.20			
MITK	22	0108	0140	0112	N14	E43	.729	8659	25.3	32	1N		C	0112	3.40	5.10			
MONT	22	0829E	0850	0833	N17	E08	.400		23.0	21D	-N		C	0833	.62	1.40			
CATA	22	0830E	0850D	0835	N16	E04	.368	8650	22.7	20D	1B			0835	2.53	2.70		276	
CAPS	22	0835E	0850D		N14	E07	.349		22.9	15D	-F	2		0837	1.70	1.80		143	CE
MANI	22	0837E	0855		N15	E08	.370		23.0	18D	-F	2		0839	.83	.89			
SACP	22	2054	2119	2108	N13	E27	.536	8659	24.9	25	1N		C		2.01	2.12			
MANI	23	0717	0731	0722	N12	E27	.529	8659	25.3	14	1F	2		0722	1.96	2.40			F
ONDR	23	1214E	1224D		N14	E25	.521	8659	25.4	10D	1B		V						
HUAN	23	1512	1530D		N11	W31	.572	8654	21.3	18D	1F	1	P	1517	1.80	1.93			E
SACP	23	1512	1546	1518	N10	W31	.566		21.3	34	-N		C		1.72	1.83			
LOCK	23	2028	2100	2037	N14	E19	.454	8659	25.3	32	1N		C	2037	2.10	2.30		20	
HALE	23	2029	2106	2034	N16	E18	.466		25.2	37	-B	1	C	2034	.72	.80			
HALE	23	2335	0013	2339	N14	E21	.476	8659	25.6	38	1B	1	C	2339	1.86	2.10			F
MITK	23	2336	2347	2338	N14	E22	.487	8659	25.6	11	1N		C	2338	2.37	2.70			
SACP	23	2336	2354	2339	N13	E21	.466		25.6	18	-N		C		1.55	1.58			
MANI	23	2337E	2351		N15	E19	.465		25.4	14D	-N	2		2339	.98	1.09			
HALE	24	0343	0404D	0352	S19	E26	.481		26.1	21D	-N	2	P	0352	.83	.90			
MITK	24	0344	0413D	0350	S20	E25	.475	8661	26.0	29D	1F		C	0350	2.06	2.40			G
MANI	24	0609	0621D	0615	N20	E18	.514	8659	25.6	12D	1N	2		0615	2.06	2.44			U
MITK	24	0609	0634D	0614	N23	E15	.529	8659	25.4	25D	1N		C	0614	2.89	3.40			F
SACP	24	2023E	2045D	2027	N22	E10	.486	8659	25.6	22D	1B		C		3.00	3.08			
HALE	24	2043E	2108U	2043U	N22	E08	.477		25.5	25U	-B	2	P	2043	1.13	1.30			
LOCK	25	2015	2045	2023	N20	E90	1.001	8671	1.6	30	1F		C	2023	.60	2.40		10	H
MONT	26	1143	1154D	1150	N15	W18	.457	8659	25.1	11D	1B		C	1150	1.03	2.40			O
CATA	26	1143E	1205D	1145	N16	W18	.469	8659	25.1	22D	1B			1145	2.03	2.30		214	
CAPS	26	1147E	1159D		N15	W15	.428		25.4	12D	-N	3		1151	1.60	1.80		147	C
CAPS	26	1401E	1422D		N15	W25	.533	8659	24.7	21D	1F	2		1405	2.20	2.60		158	B
SACP	26	1414	1523	1447	N18	W26	.571		24.6	69	-N		C		1.83	1.95			
CAPF	26	1417E	1440D	1417	N18	W26	.571		24.6	23D	-N		P	1422	1.46	1.71			
SACP	26	2050	2124	2105	N26	E68	.956	8668	1.0	34	1N		C		1.24	2.59			
LOCK	26	2102	2120	2111	N29	E72	.975	8671	1.3	18	1F		C	2111	.90	2.30		10	
SACP	26	2246	2302	2250	N22	E71	.964		1.3	16	-N		C		.86	1.90			
LOCK	26	2247	2259	2250	N24	E72	.970	8671	1.3	12	1N		C	2250	.90	2.40		20	
SACP	27	1511	1550	1520	N20	W59	.894	8650	23.2	39	1N		C		2.21	3.49			
LOCK	27	2002	2032		N26	W32	.699		25.4	30	-N		C		1.10	1.40		20	
SACP	27	2002	2121U	2015U	N16	W31	.609	8659	25.5	79U	1N		C		2.12	2.32			

SOLAR FLARES

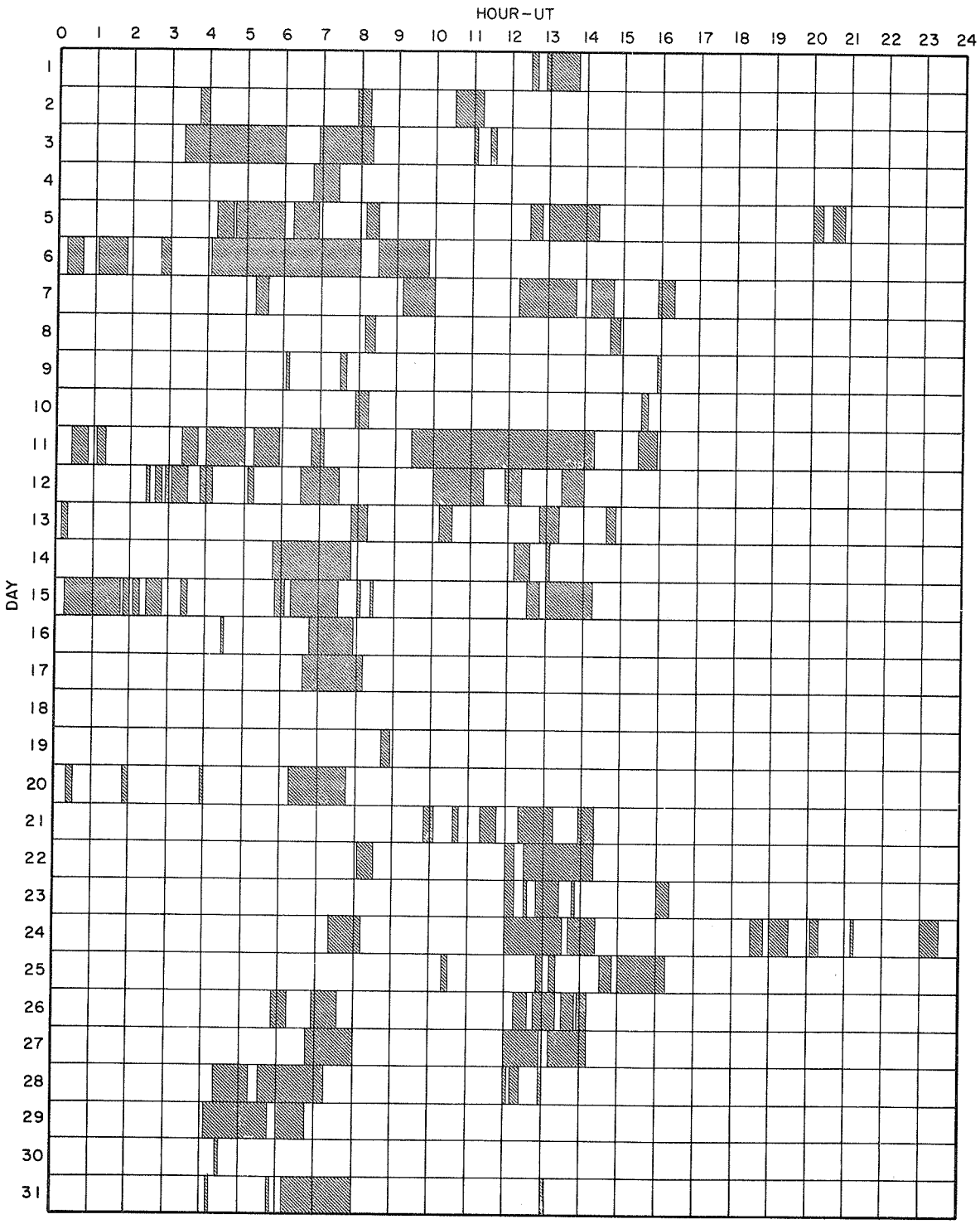
PRELIMINARY

JANUARY 1967

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1967 JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
HALE	27	2004	2033	2007	N16	W31	.609		25.5	29	-N	2	C	2007	.72	.90			F
HUAN	27	2005	2038D		N17	W31	.617	8659	25.5	33D	1F	1	P	2010	2.12	2.33			E
SACP	27	2317U	2356D	2331U	N16	W32	.620	8659	25.6	39D	1N		C		2.04	2.25			
LOCK	27	2319	2345D	2326	N25	W35	.717	8659	25.3	26D	1N		C	2326	2.10	2.70		20	
HALE	27	2322	0009D	2330	N15	W30	.590		25.7	47D	-B	1	P	2330	.93	1.10			F
MANI	27	2325E	2351	2330	N17	W32	.628	8659	25.6	26D	1N	2		2330	1.75	2.30			
MONT	28	0728E	1130	0900	S23	E17	.404	8667	29.6	242D	1B		C	0826	2.06	4.80			O
MANI	28	0753E	0857	0758	S23	E21	.448	8667	29.9	64D	1N	2		0758	1.65	2.10			
CAPS	28	0804E	0840		S24	E19	.436	8667	29.8	36D	1N	3		0808	2.20	2.40		185	
CATA	28	0815E	0845D	0815	S22	E17	.393		29.6	30D	-B			0815	1.58	1.70		224	
CAPF	28	0840E	0912	0840	S22	E19	.416		29.8	32D	-N		S	0840	1.18	1.31			
CAPS	28	0943E	0955		S24	E19	.436	8667	29.8	12D	1F	3		0950	2.00	2.20		152	C
LOCK	28	2230	2250D	2241	S14	E13	.263	8667	29.9	20D	1N		C	2241	2.50	2.80		20	
HUAN	28	2232	2241D		S25	E12	.382		29.8	9D	-N	1	P	2238	.62	.62			E
SACP	28	2233	2312	2240	S25	E12	.382	8667	29.8	39	1N		C		2.10	2.09			
LOCK	29	1612	1700	1620	S15	E02	.164	8667	29.8	48	2B		C	1620	5.50	6.10		30	L
SACP	29	1612	1740	1620	S25	E01	.329	8667	29.8	88	2N		C		5.37	5.31			
MCMA	29	1614	1730	1619	S27	W00	.362	8667	29.7	76	2N		C	1619	5.16	5.40			FL
HUAN	29	1625E	1704D		S26	E03	.349	8667	29.9	39D	2N	1	P	1625	6.19	6.18			
HALE	29	1705E	1727D		S26	E02	.347	8667	29.9	22D	1N	2	P	1714	4.54	4.80			
SACP	29	2039	2046	2042	N15	W62	.905		25.2	7	-F		C		.57	.93			
HUAN	29	2040	2051		N16	W63	.914		25.1	11	-N	1	C	2043	1.29				E
HALE	29	2040	2058	2044	N15	W64	.919	8659	25.1	18	1B	2	C	2044	1.44				
SACP	29	2244	2256D	2248	N18	W59	.890		25.5	12D	-F		C		.58	.91			
MANI	29	2245E	2256		N19	W64	.925	8659	25.1	11D	1N	1		2245	1.03	2.20			F
LOCK	29	2245E	2312	2250U	N26	W65	.943		25.1	27D	-F		C	2250	.50	1.10		10	
LOCK	29	2352	0025D	0000	N28	W70	.967	8659	24.7	33D	1B		C	0000	1.00	2.30		30	
SACP	29	2355	2358D	2357	N24	W62	.923		25.3	3D	-F		C		.87	1.53			
MANI	29	2356E	0021	0000	N24	W63	.928	8659	25.3	25D	1F	2		0000	1.34	21.87			
HALE	30	0000E	0031	0003	N24	W63	.929		25.3	31D	-N	2	P	0003	.41				F
MEUD	30	1120	1200		S27	E53	.815		3.4	40	-N		C	1129	1.03	1.80			E
MONT	30	1121		1125	S25	E55	.828	8673	3.6		1N		C	1125	1.03	4.00			O
CAPS	30	1130E	1159D		S24	E58	.852	8673	3.8	29D	1F	2		1134	2.00	3.80		158	G
CATA	30	1134E	1200D	1135	S25	E55	.828		3.6	26D	-N			1135	.64	1.10		191	
WEND	30	1142E	1205		S27	E60	.872	8673	4.0	23D	2N				6.19				
MONT	30	1131	1200	1133	S16	W09	.232		29.8	29	-N		C	1133	.26	.50			O
MEUD	30	1134	1155	1137	S24	W08	.337		29.9	21	-N		C	1137	.72	.73			E
CATA	30	1134E	1200D	1135	S26	W08	.367		29.9	26D	-N			1135	.56	.60		182	
CAPS	30	1135E	1140D		S23	W10	.336		29.7	5D	-N	2							E
WEND	30	1142E	1154		S23	W08	.322	8667	29.9	12D	1N				5.16				
WEND	30	1142E	1154		S23	W14	.371		29.4	12D	-N								
MANI	31	0037E	0113		N20	W62	.915	8659	26.4	36D	1B	1		0038	1.86	3.85			U
MITK	31	0040E	0115D		N18	W50	.817	8663	27.3	35D	1F		C	0054	1.75	2.90			FG
CAPF	31	0856E	0917	0856	N14	E26	.539	8671	2.3	21D	1N		P	0904	1.76	2.05			H
MONT	31	0857	0925	0900	N17	E28	.587		2.5	28	-N		C	0900	.52	1.40			O
ARCE	31	0858	0917D	0900	N12	E28	.546	8671	2.5	19D	1N		C	0900	2.34	2.80			HC
CAPS	31	0900	0909D		N14	E26	.539		2.3	9D	1F	3		0902	2.00	2.40		147	
CAPF	31	0908E	0919	0908	N20	E12	.477		1.3	11D	-N		P	0914	.88	.98			
CAPS	31	0907E	0930D		N20	W65	.933	8659	26.5	23D	1B	3		0912	1.00			200	C
CAPF	31	0908E	1025D	0908	N21	W69	.955	8659	26.2	77D	1N		P	0914	1.18				
CAPS	31	0923E	0928D		N28	E80	.995	8680	6.4	5D	1N	3		0925	.60			165	C
ARCE	31	0925			N24	E80	.993		6.4		-N		C	0925	.31	1.00			DC
MONT	31	1208	1220	1210	N21	W70	.960	8659	26.3	12	1N		C	1210	.52				O
CAPS	31	1301	1359		N20	E10	.465		1.3	58	-N	3		1340	1.30	1.50		164	E
HUAN	31	1313	1402	1337	N19	E09	.446	8670	1.2	49	1N	2	C	1337	2.63	2.68			E
MEUD	31	1330	1342D	1335	N19	E05	.429		31.9	12D	-N		C	1335	.52	.60			E
SACP	31	1600	1616	1605	N26	E74	.980	8680	6.2	16	1F		C		.86	2.15			
LOCK	31	1833	1841	1835	N15	W90	1.000	8659	25.0	8	2B		C	1835	2.10	8.40		30	H
HUAN	31	1833	1842		N16	W90	1.000		25.0	9	-B	1	C	1835	.36				D

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

JANUARY 1967



Observatories included:

Arcetri	Catania	Huancayo	Manila	Mitaka	Sacramento Peak
Bucaresti	Haleakala	Istanboul	McMath-Hulbert	Monte Mario	Tortosa
Capri-F (German)	Herstmonceux	Lockheed	Meudon	Ondrejov	Wendelstein

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

JANUARY 1967

JAN. 1967	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ PEAK	FLUX DENSITY MEAN	INT.	REMARKS
2	8800	SGMR	45	1237.4	1240.5	8.6	40.8	14.0		
	4995	SGMR	45	1237.4	1240.5	8.6	30.8	12.0		
	2695	SGMR	45	1237.4	1240.5	8.6	37.4	15.0		
	1415	SGMR	45	1237.2	1239.8	5.8	36.5	15.0		
	606	SGMR	45	1237.2	1237.5	4.8	182.5	36.5		
	2700	PENN	1	1411.8	1413.1	3.2	4.5	1.5		
	960	PENN	45	1412.8	1413.2	.6	10.0	1.9		
	2800	OTTA	21	1510	1605	190	6.4	3.2		
	10700	PENN	3	1514.4	1515	3.8	38.5	4.6		
	8800	SGMR	3	1514.2	1514.9	2.8	32.0	10.5		
	4995	SGMR	3	1514.3	1514.9	3.7	16.5	5.5		
	2800	OTTA	3	1514.4	1515	4.5	23.0	9.0		
	2700	PENN	3	1514.6	1515.1	2	23.3	9.4		
	2695	SGMR	3	1514.4	1514.9	6.6	28.6	9.5		
	1415	SGMR	3	1514.4	1514.9	3.6	50.8	18.0		
	960	PENN	45	1514.5	1515	9.1	15.7	1.3		
	606	SGMR	45	1514.4	1514.9	3.6	419.4	85.0		
	2700	PENN	29	1516.6	1516.6	96	5.2	2.9		
	1415	SGMR	29	1518	1518	17	4.4	2.2		
	606	SGMR	29	1518	1518	24	7.7	4.0		
	960	PENN	1	1548.5	1548.6	.6	2.1	0.9		
	2700	PENT	21	2030	2100	55	3.8	1.9		
	10700	PENN	3	2050	2050.4	9.2	11.5	4.0		
	8800	SGMR	3	2049	2050.1	4	10.6	4.0		
	4995	SGMR	3	2049	2050.1	4	26.4	8.5		
	2800	OTTA	1	2049	2050.5	3	6.0	3.0		
	2700	PENN	20	2048.8	2050.6	10.4	8.6	2.2		
	2695	SGMR	3	2049	2050.1	4	7.8	3.0		
	2700	PENT	3	2135.5	2138.5	4	11.0	5.5		
	2800	OTTA	29	2140		15	3.8	1.9		
3	1415	SGMR	4	1215.3U	1215.5	3.7U	58.0	19.0		
	606	SGMR	45	1215.3U	1216.9	6.7U	69.0	23.0		
	10700	PENN	3	1351.9	1352.1	.3	10.8	5.4		
	8800	SGMR	45	1352.3	1352.6	2.7	13.5	6.5		
	4995	SGMR	45	1352.3	1353.5	2.7	8.8	4.0		
	2800	OTTA	45	1352	1353.3	2	11.2	6.0		
				1352	1352.7	1	7.2			
				1353	1353.3	1	11.2			
	2700	PENN	45	1352	1352.8	3.6	11.4	3.4		
	2695	SGMR	45	1352.3	1353.5	5.7	15.3	4.2		
	1415	SGMR	45	1352.3	1352.6	6.2.	4.0	2.0		
	1415	SGMR	45	1352.3	1353.5	6.2	4.0	2.0		
	2800	OTTA	29	1354		30	2.6	1.3		
	2800	OTTA	21	1427	1540	125	4.6	2.3		
	10700	PENN	3	1430.9	1431.3	1.1	16.3	7.0		
	8800	SGMR	4	1431	1431.9	1.5	20.3	6.5		
	4995	SGMR	4	1431	1431.9	2	26.4	9.0		
	2800	OTTA	3	1431.4	1432	2	13.6	6.8		
	2700	PENN	3	1430.9	1431.4	1.4	13.3	5.5		
	2700	PENN	24	1431	1435.5	50.8	1.0	1.0		
	2695	SGMR	4	1431	1431.9	2	16.9	5.5		
	1415	SGMR	4	1431	1432	2	6.8	2.3		
	960	PENN	1	1430.6	1431.4	1.3	.5	0.2		
	606	SGMR	4	1431	1431.9	3	37.8	13.0		
	10700	PENN	1	1452	1452.1	1.4	5.4	2.7		
	2800	OTTA	1	1452.5	1452.8	1	3.4	1.7		
	2700	PENN	1	1452.2	1452.4	.8	3.8	1.9		
	2700	PENN	26	1521.8	1521.8	3.6	1.0	0.5		
	2700	PENN	20	1534.7	1536.9	51	2.4	1.2		
	10700	PENN	3	1641.6	1641.6	8.4	8.4	2.9		
	2800	OTTA	21	1740	1800	30	3.4	1.7		
	10700	PENN	3	1747.8	1748.6	2	8.6	4.0		
	2800	OTTA	1	1748.5	1759.3	4	4.0	2.0		
	2700	PENN	1	1748	1748.8	2.8	4.1	2.4		
	2700	PENN	24	1816	1908	156 D	7.0D	3.0D		
	486	WASH	3	2017		.5	86.6			
	10700	PENN	3	2118.8	2119.2	.7	9.0	4.5		
	2800	OTTA	1	2119	2119.8	2	5.2	2.6		
	2700	PENN	1	2118.4	2119.3	1.5	6.6	3.5		
4	606	SGMR	1	1337.1	1338.3	2.4	5.8	.5		
	606	SGMR	40	1612.3	1622.1	10.7	7.6	.5		
	606	SGMR	40	1925.3	1927.3	2.7	9.8	1.0		
	2700	PENT	20	2025	2130	110	6.4	3.2		
	486	WASH	3	2210		1	86.8			
5	606	SGMR	40	1253	1319.8	197	4.4	1.0		
	8800	SGMR	20	1359	1436	51	14.5	5.0		
	4995	SGMR	20	1415	1435	35	4.7	1.0		
	2695	SGMR	20	1344	1426	66	5.0	1.0		
	2800	OTTA	20	1755	1940	200	6.0	3.0		
	1415	SGMR	20	1926	1927.7	4	5.3	1.0		
	606	SGMR	20	1925	1927.7	5	3.5	.5		
6	2700	PENN	1	1514.1	1514.4	.3	2.9	1.5		
	2700	PENN	3	1514.8	1514.9	.4	7.7	3.9		
	2700	PENN	40	1516.4	1520.1	4.6	5.1	1.5		
	2800	OTTA	21	2038	2050	40	3.8	1.9		
	2800	OTTA	1	2041	2041.5	1	2.0	1.0		
8	606	SGMR	3	1758.3	1758.6	.7	40.9	8.0		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

JANUARY 1967

JAN. 1967	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} (c/s)^{-1}$ PEAK	FLUX DENSITY MEAN	INT	REMARKS
	2800	OTTA	1	1801.5	1802.3	2.5	1.6	0.8		
9	2700	PENN	20	1525.4	1536	21.6	2.6	1.5		
10	2800	OTTA	20	1825	1835	35	3.2	1.6		
	2800	OTTA	1	1905.5	1905.7	.7	2.2	1.1		
	2700	PENN	1	1906.5	1906.7	.9	2.8	1.9		
	2700	PENN	29	1907.4	1907.4	81.2	1.4	1.1		
	606	SGMR	20	1915	1935	40	3.2	1.6		
	8800	SGMR	3	1917.6	1918.2	1.1	11.0	4.0		
	4995	SGMR	3	1917.6	1918.2	1.1	10.4	3.8		
	2800	OTTA	1	1917.4	1918.1	1	7.2	3.6		
	2700	PENN	1	1917.2	1917.8	1.2	5.6	3.4		
	2695	SGMR	3	1917.6	1918.2	1.1	9.5	3.2		
	8800	SGMR	29	1918.7	1918.7	20.3	3.6	1.8		
	4995	SGMR	29	1918.7	1918.7	20.3	5.2	2.5		
	2800	OTTA	30	1918.5		40	2.8	1.4		
	2700	PENN	29	1918.4	1918.4	36.8	2.8	0.9		
	2695	SGMR	29	1918.7	1918.7	20.3	4.1	2.0		
	960	PENN	1	1918.2	1918.4	.4	1.1	0.6		
	8800	SGMR	1	1928	1929.2	4	4.1	1.5		
	4995	SGMR	3	1928	1929.2	4	10.4	4.0		
	2800	OTTA	1	1928.5	1929.3	1.2	2.8	1.4		
	2700	PENN	1	1928.2	1929.3	4.6	2.8	1.2		
	2695	SGMR	1	1928	1929.2	4	3.6	1.2		
	2800	OTTA	29	1929.7		10	1.4	0.7		
11	8800	SGMR	3	1237.5	1238.7	2.5	10.6	3.5		
	4995	SGMR	3	1237.5	1238.6	2.5	22.0	7.0		
	2695	SGMR	3	1237.5	1238.6	2.5	19.5	6.5		
	1415	SGMR	40	1237.5	1239.7	2.5	10.8	3.5		
	606	SGMR	40	1237.5	1239.7	2.5	9.9	3.0		
	10700	PENN	45	1732.7	1733.9	2.2	43.7	6.4		
	8800	SGMR	3	1732.8	1734.2	2.2	54.8	18.5		
	4995	SGMR	45	1732.8	1734.2	3.2	42.0	14.0		
	2800	OTTA	45	1732.5	1734.2	3	17.4	5.0		
				1732.5	1733.6	1.3	5.8			
				1733.8	1734.2	1.7	17.4			
	2700	PENN	45	1732.1	1733.9	5	15.6	2.3		
	2695	SGMR	45	1732.8	1734.2	3.2	16.6	5.5		
	1415	SGMR	45	1732.8	1734.2	3.2	13.6	4.5		
	960	PENN	1	1732.8	1733.9	1.7	.8	0.3		
	606	SGMR	3	1732.8	1734.2	3.2	21.0	7.0		
	10700	PENN	45	2017.8	2042.5	30	70.4	28.9		
	8800	SGMR	45	2018	2042.8	37 U	46.2	15.0		
	4995	SGMR	45	2018	2042.8	37 U	45.0	15.0		
	2800	OTTA	46	2017	2046	35	32.0	13.0		
				2017	2024.5	14	20.0			
				2031	2035	8	16.3			
				2039	2046	13	32.0			
	2700	PENN	45	2017.2	2045.6	34	30.2	11.9		
	2695	SGMR	45	2018	2024.4	37 U	43.6	14.0		
	1415	SGMR	45	2018	2024.4	37 U	42.3	13.0		
	960	PENN	45	2022.2	2034.6	19	9.7	1.0		
	606	SGMR	45	2020	2040.5	35 U	45.0	15.0		
	10700	PENN	29	2047.8	2047.8	36	27.6	17.8		
	2800	OTTA	29	2052		65	5.8	2.9		
	2700	PENN	29	2051.2	2051.2	27	6.1	2.9		
	2700	PENT	1	2247.5	2248.7	3	5.4	3.0		
12	1415	SGMR	20	1810	1820.6	25	2.4	.5		
	10700	PENN	3	1816.6	1817.3	1	9.9	5.0		
	8800	SGMR	3	1816	1817.5	2	10.4	3.0		
	4995	SGMR	3	1816	1818.5	3.2	7.6	1.5		
	2800	OTTA	1	1816.5	1817.5	2	2.4	1.2		
	2700	PENN	1	1816.6	1817.2	1.9	1.8	0.9		
13	10700	PENN	20	1743	1747.4	72.4	12.4	10.7		
	4995	SGMR	20	1803	1806.2	14	2.6	.5		
	4995	SGMR	20	1820	1824.8	17	3.0	.5		
	2800	OTTA	20	1740	1825	100	5.2	2.6		
	2700	PENN	20	1739	1804.6	69.5	4.1	2.7		
	2695	SGMR	20	1802.5	1808.7	17.5	2.1	.5		
	2695	SGMR	20	1821	1826.4	20.5	2.5	.5		
	2695	SGMR	20	1851	1857.5	18	2.3	.5		
	1415	SGMR	20	1850.5	1852.8	7.5	1.7	.5		
	2700	PENT	20	2100	2130	75	3.0	1.5		
14	8800	SGMR	1	1259.5	1300.3	2.5	5.3	2.6		
	4995	SGMR	3	1259.5	1300.4	2.5	9.0	4.5		
	2695	SGMR	3	1259.5	1300.5	2.5	8.8	4.4		
	1415	SGMR	1	1259.5	1300.5	2.5	2.4	1.2		
	10700	PENN	20	1742	1800	66	6.4	4.7		
	8800	SGMR	20	1740	1750	40	5.7	2.8		
	4995	SGMR	20	1739	1750	44	6.5	3.2		
	2800	OTTA	20	1739	1810	110	5.4	2.7		
	2700	PENN	20	1739.2	1834.6	76.8	4.2	2.8		
	2695	SGMR	20	1738	1751	42	4.5	2.2		
	1415	SGMR	20	1715	1752.8	65	2.5	1.2		
	606	SGMR	22	1715	1752.8	65	8.9	4.4		
15	2700	PENN	1	1519.2	1519.5	.8	1.9	0.9		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

JANUARY 1967

JAN. 1967	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ PEAK	FLUX DENSITY MEAN	INT	REMARKS
	2700	PENN	1	1529.1	1530.8	5.4	1.5	0.7		
	10700	PENN	24	1729.4	1731	66	6.1	6.1		
	2800	OTTA	45	1819.9	1820	.8	2.0	1.0		
	2700	PENN	24	1728.2	1728.3	79	.9	0.9		
	2700	PENN	20	1738	1740.3	52	1.6	0.8		
	2695	SGMR	20	1738	1820.6	46	3.3	1.5		
	1415	SGMR	1	1819.8	1820.6	1.8	2.4	.8		
	606	SGMR	1	1819.8	1820	1.8	2.9	1.0		
	10700	PENN	26	1835.4	1835.4	1.2	6.1	3.0		
	2700	PENN	26	1847.2	1847.2	.1	.9	0.5		
	1415	SGMR	1	2009.5	2009.8	.5	2.3	.6		
	606	SGMR	4	2009	2009.5	1	195.2	40.0		
	606	SGMR	29	2010	2010	7	2.5	1.2		
	2800	OTTA	45	2019.4	2019.5	.7	4.6	2.3		
	10700	PENN	3	2047.4	2047.5	.4	26.7	8.5		
	8800	SGMR	3	2046.5	2047.3	2.5	29.0	9.5		
	4995	SGMR	3	2046.5	2047.3	2.5	10.6	3.2		
	2800	OTTA	3	2046.9	2047.1	1.5	7.6	3.8		
	2700	PENN	1	2047.4	2047.6	2	6.9	2.2		
	2695	SGMR	3	2046.5	2047.3	2.5	10.8	3.2		
	1415	SGMR	3	2046.5	2047.3	2	14.8	3.5		
	960	PENN	1	2047.4	2047.6	.4	1.9	0.9		
	606	SGMR	45	2046	2047	2.5	64.0	15.0		
	2700	PENN	1	2051.2	2052.1	2	1.5	0.9		
16	1415	SGMR	1	1621.3	1621.6	1	2.4	.5		
	606	SGMR	40	1619.7	1622.1	3.3	2.1	.5		
	2800	OTTA	20	1745	1815	135	2.0	1.0		
17	606	SGMR	40	1805.1	1805.3	.7	6.7	1.0		
	2700	PENT	3	2309	2311	5	9.0	4.5		
18	2800	OTTA	20	1500	1507	30	1.8	0.9		
	2800	OTTA	1	1634.5	1635	2	1.6	0.8		
	2700	PENN	1	1634.3	1634.8	1.2	1.9	1.0		
	2800	OTTA	1	1922	1922.2	.4	.8	0.4		
	2700	PENN	1	1921.4	1921.9	1.6	1.1	0.5		
	2700	PENN	1	1930.6	1931.4	1.7	.5	0.3		
	2700	PENN	1	1944	1945.3	2.4	1.1	0.5		
	2800	OTTA	1	2014.2	2014.5	.7	.8	0.4		
	2800	OTTA	20	2021	2050	80	2.4	1.2		
	2700	PENN	1	2020.6	2022	4	1.8	0.9		
	2700	PENN	24	2036	2040	46	1.7	1.6		
19	2800	OTTA	20	1715	1720	40	2.2	1.1		
	2700	PENN	24	1714	1942	260 D	4.0D	3.0D		
	2700	PENN	1	1720	1720.3	.5	3.8	1.9		
20	2700	PENN	1	1504.6	1505	2.2	.8	0.4		
	2700	PENN	1	1507.6	1507.9	.6	.4	0.2		
	2700	PENN	1	1510	1510.4	1	1.1	0.5		
	2700	PENN	1	1512.3	1512.5	.6	.9	0.5		
	2800	OTTA	2	1524	1524.3	1	1.4	0.7		
	2700	PENN	1	1523.9	1524.3	1.1	2.4	1.4		
	10700	PENN	1	1538.6	1540.2	4.4	6.9	3.7		
	8800	SGMR	20	1538.3	1540.1	10.7	3.8	.5		
	4995	SGMR	20	1538.1	1541.6	13.3	9.0	3.0		
	2800	OTTA	45	1538	1542	6	10.8	4.3		
				1538	1539.5	2	5.0			
				1540	1540.5	1.7	9.2			
				1541.7	1542	2.3	10.8			
	2700	PENN	45	1537.4	1541.9	6.3	10.7	4.5		
	2700	PENN	24	1543.7	1543.7	82	.7	0.3		
	2695	SGMR	20	1538	1540.5	11	12.4	4.0		
	960	PENN	1	1540.1	1541.4	2.6	3.0	1.4		
	606	SGMR	3	1645.4	1645.5	.2	12.9	2.5		
	2800	OTTA	2	1753	1758	8	1.6	0.8		
	2700	PENN	1	1756.3	1758.5	3.6	2.0	1.2		
	1415	SGMR	28	1753.8	1755.7	1.9	4.9	2.4		
	1415	SGMR	3	1755.7	1757.6	8.3	41.5	5.0		
	960	PENN	45	1756.6	1759.1	3.2	24.5	8.5		
	606	SGMR	45	1755	1758.6	7.2	108.0	26.0		
	2800	OTTA	20	1810	1823	60	3.2	1.6		
	2700	PENN	1	1820.8	1821.3	6.8	1.5	0.8		
	4995	SGMR	20	2045.4	2047.7	8.6	7.0	2.0		
	2800	OTTA	3	2046	2047.5	11	7.6	3.8		
	2700	PENN	24	2024.6	2046	56 D	2.0D	1.0D		
	2700	PENN	3	2046	2047.4	3.7	7.9	5.3		
	2700	PENN	29	2049.7	2049.7	30 D	4.4	2.6		
	2695	SGMR	20	2041	2046.4	13	9.0	1.0		
	1415	SGMR	22	2045.3	2048.1	8.7	21.8	6.0		
	960	PENN	1	2047.6	2047.9	.4	.9	0.4		
	606	SGMR	22	2046	2047.7	7	8.1	1.0		
	10700	PENN	3	2102.2	2102.4	.9	13.0	6.5		
	8800	SGMR	1	2102	2102.7	2	5.5	.5		
	4995	SGMR	3	2101.5	2102.6	2	10.5	2.0		
	2800	OTTA	1	2102	2102.7	1.2	6.6	3.3		
	2700	PENN	45	2101.9E		1 D				CALIBRATION
	2695	SGMR	22	2100.3	2101.2	4.2	24.0	5.0		
	1415	SGMR	45	2101	2102.3	3.2	82.6	15.0		
	960	PENN	45	2101.9E		1 D				CALIBRATION

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

JANUARY 1967

JAN. 1967	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ PEAK	FLUX DENSITY MEAN	INT.	REMARKS
	606	SGMR	45	2100.8	2102.7	5.2	34.5	6.0		
	486	WASH	45	2102	2103	3	60.6			
	10700	PENN	3	2106.8	2107.4	1.7	13.6	6.8		
	8800	SGMR	3	2106.8	2107.5	2.2	11.0	1.5		
	4995	SGMR	3	2106.7	2106.7	2.6	21.3	5.0		
	2800	OTTA	3	2106.7	2107.5	3	16.0	8.0		
	2700	PENN	3	2106.4	2107.1	3.3	23.5	9.1		
	2695	SGMR	3	2105.6	2106.2	3.4	23.4	6.0		
	1415	SGMR	45	2106.4	2107.3	2.9	81.0	15.0		
	960	PENN	1	2106.5	2107.4	1.2	3.1	1.0		
	606	SGMR	45	2106.7	2107.4	5.3	32.8	8.0		
	486	WASH	45	2107	2108	3	43.3			
	606	SGMR	3	2125.1	2125.6	3.5	14.6	3.0		
21	2800	OTTA	20	1510	1615	90	4.0	2.0		
	2700	PENN	1	1654.3	1654.8	1	1.9	1.0		
	2800	OTTA	1	1855.4	1855.7	1	1.2	0.6		
	2700	PENN	1	1913.3	1913.7	.8	3.8	0.8		
	2700	PENT	28	2128		13	4.4	3.0		
	960	PENN	45	1911.5	1912.8	2.4	4.0	1.3		
	2800	OTTA	46	2141	2144	10	56.0	28.0		
	486	WASH	45	2145	2148	5	77.8			
	2800	OTTA	30	2151		35	7.0	3.5		
	2800	OTTA	3	2158	2158.5	1.5	17.0	8.5		
22	8800	SGMR	1	1501	1502	3	4.3	1.4		
	4995	SGMR	1	1500	1501.6	7	7.0	2.3		
	2800	OTTA	4	1500.5	1502	3	12.6	6.3		
	2700	PENN	5	1502.1E		3 D				CALIBRATION
	2695	SGMR	3	1500	1501.6	7	15.5	5.0		
	1415	SGMR	20	1458	1502	18	2.7	1.3		
	2800	OTTA	29	1503.5		5	2.0	1.0		
	2695	SGMR	1	1736	1737.9	4	1.5	.5		
	1415	SGMR	1	1737.3	1737.9	1.7	5.0	1.8		
	606	SGMR	1	1737.3	1737.7	1.7	3.1	1.1		
	4995	SGMR	22	1828	1909.4	87	6.8	2.5		
	2800	OTTA	1	1909	1909.4	1	3.0	1.5		
	2700	PENN	1	1909	1909.2	.8	3.1	1.5		
	2695	SGMR	22	1833	1909.5	74	5.8	1.5		
	1415	SGMR	22	1830	1924.2	85	2.6	.9		
	2800	OTTA	20	1912	1928	50	2.8	1.4		
23	1415	SGMR	4	1208	1210.5	7	12.5	2.8		
	606	SGMR	4	1208	1210.5	7	15.5	4.0		
	2700	PENN	26	1400 E		60 D	4.0D	2.0D		
	2800	OTTA	21	1632	1715	80	3.8	1.9		
	10700	PENN	3	1635.3	1636.1	8.8	21.1	10.5		
	8800	SGMR	45	1635	1636.2	10	21.6	6.0		
	4995	SGMR	45	1633.5	1636.2	12.5	22.8	6.3		
	2800	OTTA	46	1633.3	1636	8	18.0	9.0		
	2700	PENN	45	1632.3	1635.9	8.8	21.5	6.7		
	2695	SGMR	45	1633.5	1636.2	16.5	17.4	4.5		
	1415	SGMR	45	1633.5	1636.2	16.5	12.5	3.5		
	960	PENN	20	1633.7	1635.7	9.4	.8	0.4		
	606	SGMR	45	1633.3	1636.2	26.7	197.3	40.0		
	8800	SGMR	45	1839.4	1839.6	4.7	3.3	1.1		
	4995	SGMR	45	1836.9	1839.4	3.9	10.2	1.0		
	2800	OTTA	2	1836.7	1837.9	1.5	3.2	1.6		
	2800	OTTA	3	1839.3	1839.5	2	16.0	8.0		
	2700	PENN	20	1830	1915	74	4.8	3.1		
	2700	PENN	1	1835.8	1837	1.4	4.3	2.1		
	2700	PENN	3	1838.4	1838.7	1.8	17.4	7.1		
	2695	SGMR	45	1837.1	1839.6	5.4	19.5	4.3		
	1415	SGMR	45	1836.8	1839.9	5.4	33.5	8.1		
	960	PENN	1	1838.2	1838.6	1.1	1.9	0.9		
	606	SGMR	45	1836.4	1836.7	7.6	23.6	6.0		
	2800	OTTA	21	2015	2040	70	3.2	1.6		
	2800	OTTA	1	2028	2028.5	2	2.2	1.1		
	2800	OTTA	2	2042	2043	2	2.6	1.3		
24	10700	PENN	40	1940		14				
	2700	PENN	40	1941		11				
	10700	PENN	40	2024		24				
	8800	SGMR	20	2017	2025	15.1	6.3	1.1		
	4995	SGMR	3	2020	2020.6	13.5	7.9	1.4		
	2800	OTTA	3	2019	2021.5	5	15.4	7.7		
	2800	OTTA	29	2024		15	3.2	1.6		
	2700	PENN	3	2018.6	2020.8	3.4	15.7	7.3		
	2700	PENN	29	2022	2022	68	6.6	2.4		
	2700	PENN	40	2024		26				
	2695	SGMR	3	2018.7	2021.4	7.2	15.6	3.9		
	1415	SGMR	3	2018.5	2020.4	4.9	16.2	5.5		
	960	PENN	1	2018.7	2020.4	4.3	2.2	1.0		
	606	SGMR	3	2018.9	2020.6	4.4	8.7	3.0		
	2700	PENT	20	2145	2147	40	3.0	2.0		
	2700	PENT	1	2333	2333.8	2	4.4	2.2		
25	2800	OTTA	20	1430	1540	230	5.4	2.7		
				1430	1540	140	5.4			
				1650	1730	90	4.0			
	4995	SGMR	3	1901.8	1902.1	1.2	8.0	1.4		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

JANUARY 1967

JAN. 1967	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ PEAK	FLUX DENSITY MEAN	INT.	REMARKS
	2800	OTTA	2	1901.7	1902.3	1	7.4	4.8		
	2700	PENN	5	1902.2E		1 D				CALIBRATION
	2695	SGMR	1	1901.4	1901.9	1	6.5	1.0		
	1415	SGMR	3	1901.8	1902.4	2	9.2	4.6		
	606	SGMR	1	1901.9	1902.5	2.4	2.1	1.0		
	2700	PENN	24	1918.8	1944.2	116 D	5.0D	4.0D		
	2700	PENN	3	1955.1	1955.2	.6	14.3	7.4		
26	2800	OTTA	21	1353	1357.5	33	5.2	2.6		
	2695	SGMR	20	1353.8	1403.4	30.2	7.3	3.6		
	1415	SGMR	20	1344	1358	41.4	7.7	3.8		
	606	SGMR	1	1357.4	1358.5	12.1	1.6	.7		
	2800	OTTA	20	1500	1530	80	3.8	1.9		
	2800	OTTA	20	1700	1830	170 D	5.0	2.5		
27	2800	OTTA	1	2003	2004	3.5	1.8	0.9		
	10700	PENN	1	2022.9	2023.4	1	6.8	4.6		
	2800	OTTA	20	2015	2023	20	4.4	2.2		
	2700	PENN	20	2020	2023.4	12.4	4.1	1.7		
28	2800	OTTA	21	1513	1516	30	4.6	2.3		
	10700	PENN	3	1514.7	1515	1.2	31.6	12.0		
	8800	SGMR	3	1514.8	1515.1	1.1	39.2	6.0		
	8800	SGMR	29	1515.9	1515.9	8.7	5.9	2.0		
	4995	SGMR	3	1514.8	1515.1	1.1	28.7	4.0		
	4995	SGMR	29	1515.9	1515.9	9.1	5.0	1.5		
	2800	OTTA	3	1515	1515.3	1	9.0	4.5		
	2700	PENN	3	1514.8	1515.2	.9	7.8	4.1		
	2695	SGMR	28	1513.7	1514.9	1.2	3.0	1.5		
	2695	SGMR	3	1514.9	1515.2	.9	9.7	1.5		
	2695	SGMR	29	1515.8	1515.8	15.9	3.5	1.0		
	10700	PENN	3	1704.5	1705	1.1	17.2	8.5		
	2700	PENN	1	1704.8	1705.2	.8	3.9	1.6		
	2700	PENT	3	2134	2136.2	6	8.4	4.2		
	2800	OTTA	29	2140		20	3.6	1.8		
	2700	PENT	1	2235	2236.5	5	6.6	3.3		
29	2695	SGMR	1	1259.2	1300	2.8	3.0	.5		
	606	SGMR	45	1259.5	1259.9	1.5	59.7	10.0		
		PENN		1510	1700					HEAVY RAIN
	4995	SGMR	20	1526.7	1527	7.3	5.2	1.0		
	2800	OTTA	3	1526.7	1527.7	2.5	10.0	6.5		
	2700	PENN	20	1526.5	1527.6	10.2	7.6	2.2		
	2695	SGMR	20	1526.6	1527.7	10.5	9.0	3.0		
	1415	SGMR	1	1526.7	1527	2.3	3.6	1.0		
	606	SGMR	22	1526.8	1527.4	5.3	15.8	4.0		
	2800	OTTA	30	1529		10	3.2	1.6		
	2800	OTTA	1	1533	1535	5	2.6	1.3		
	2800	OTTA	21	1558	1655	210	11.2	5.6		
	8800	SGMR	20	1559.6	1617.8	42.4	35.6	9.0		
	4995	SGMR	20	1559.3	1604.2	7.7	11.0	3.0		
	2800	OTTA	4	1558	1601.3	9	19.0	8.0		
	2700	PENN	3	1559.2	1604.1	7.6	9.1	5.8		
	2695	SGMR	20	1557.8	1601.2	10.4	22.5	6.0		
	1415	SGMR	20	1558.2	1601.5	9.8	8.1	2.0		
	606	SGMR	1	1600	1601.2	4	1.4	.5		
	4995	SGMR	20	1612.7	1614.4	27.3	29.6	7.0		
	2800	OTTA	4	1612.5	1618	25	21.0	10.0		
	2700	PENN	20	1606.6	1617.6	29.2	16.6	6.1		
	2700	PENN	29	1606.8	1641	120.8	9.1	5.2		
	2695	SGMR	20	1612.3	1617.5	24.7	22.5	5.0		
	1415	SGMR	40	1612.4	1614.3	8.4	13.1	5.0		
	606	SGMR	3	1613.8	1614.4	1.7	12.2	3.0		
	2800	OTTA	1	1803	1803.3	2	1.0	0.5		
	2800	OTTA	1	2040	2040.8	5	1.8	0.9		
	606	SGMR	40	2041.4	2041.5	.9	25.4	5.0		
	486	WASH	3	2042		.5	138.0D			
30	10700	PENN	1	1434	1434.3	.9	7.2	3.6		
	2800	OTTA	20	1428	1432	35	3.2	1.6		
	2700	PENN	1	1431.1	1431.2	.7	2.3	1.2		
	1415	SGMR	40	1430	1431.4	2	4.4	2.0		
	2800	OTTA	21	1558	1605	20	3.2	1.6		
	2800	OTTA	1	1558	1558.5	1.5	4.8	2.4		
	2800	OTTA	2	1600.9	1601	.8	3.0	2.0		
	2700	PENN	1	1557.7	1558.5	1.3	5.5	2.5		
	2695	SGMR	4	1559	1559.6	4	9.0	3.0		
	1415	SGMR	2	1557.8	1558.6	5.5	6.9	2.3		
	606	SGMR	2	1558	1558.2	4	3.4	1.2		
	2800	OTTA	1	1625	1625.5	1	1.8	0.9		
	2700	PENN	1	1624.9	1625.4	1.2	3.0	1.5		
	2800	OTTA	1	1938	1940	4	6.6	3.3		
	2700	PENN	1	1937.7	1939.8	4.9	6.3	2.6		
	2695	SGMR	1	1938.8	1939.8	3.2	6.2	2.0		
	1415	SGMR	3	1937.2	1938.3	4.8	10.6	3.5		
	606	SGMR	4	1934	1938.4	11.3	16.5	5.5		
	2700	PENN	24	2005.8	2134.8	90	8.0	6.0		
	2800	OTTA	1	2031.5	2032.2	1.5	7.2	3.6		
	2700	PENN	1	2031.8	2032.2	1.8	6.7	3.3		
	2695	SGMR	1	2031.9	2032.2	2.1	6.2	2.1		
	1415	SGMR	1	2031.9	2032.5	6.1	6.8	2.3		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

JANUARY 1967

JAN. 1967	FREQUENCY ▲ STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} Wm^{-2} (c/s)^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	960 PENN	1	2031.9	2032.4	1	1.6	0.8		
	606 SGMR	1	2031.9	2032.7	5.1	6.6	2.2		
	606 SGMR	40	2038.2	2038.9	.9	9.9	3.3		
	2700 PENT	20	2117	2130	70	6.2	3.1		
	2800 OTTA	3	2251	2252.5	4	12.2	6.1		
31	2800 OTTA	1	1626	1626.5	1	1.2	0.6		
	2700 PENN	1	1626.4	1626.6	.8	1.0	0.5		
	2800 OTTA	21	1820	1836	20	3.6	1.8		
	4995 SGMR	45	1831.8	1832	5.2	3.7	1.5		
	4995 SGMR	45	1831.8	1834	5.2	3.7	1.5		
	2800 OTTA	1	1831.7	1832	1.5	6.0	3.0		
	2800 OTTA	1	1834.2	1834.5	1	6.0	3.0		
	2700 PENN	3	1831.6	1831.9	1	7.8	4.6		
	2700 PENN	29	1832.6	1832.6	5	3.7	1.8		
	2700 PENN	1	1834.2	1834.4	1.4	6.8	2.4		
	2695 SGMR	45	1831.8	1832	5.2	6.2	3.0		
	1415 SGMR	45	1831.8	1832.1	5.2	5.4	2.5		
	1415 SGMR	45	1831.8	1834.4	5.2	5.4	2.5		
	606 SGMR	3	1831.8	1832	.4	34.9	11.5		
	2800 OTTA	20	1845	1925	85	2.8	1.4		
	2800 OTTA	1	2022	2022.5	1.2	1.2	0.6		

Note:

It was anticipated by ARO, Ottawa in February 1966, that small rise and fall bursts should be discontinued in their report because of increase in solar activity and difficulty in proper separation of these events. This policy was not put into effect however, until the current report of January 1967. The original intent of not listing such events below 2 flux units is of necessity now being followed. Small impulsive bursts will still be listed.

Internal comparison of the observations from ARO, Ottawa and DRAO, Penticton, suggest that the 2700 mc/s flux levels are low due to unexplained operational troubles at the latter station.

18 Mc/s Bursts will no longer be carried in the Sudden Ionospheric Disturbances table.
The data is filed in World Data Center A and may be obtained from them.

No data is available from Boulder or Haleakala for January 1967.

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

JANUARY 1967

University of Colorado

7.6-41 Mc/s

Date Jan 1967	Bursts				Date Jan 1967	Bursts			
	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
1	no observ.				9	III	2209-2209:15	1-	27-41
2	III	1410:30-1410:45	1-	28-40		III	2230-2231	1	29-40
	III	1514:30-1516	2	24-41	10	III	1713:45-1714	1	26-41
	II	1519:45-1529	2	24-41		III	1750:15-1750:45	1+	29-40
	III	1534:30-1534:45	1-	26-36		IIIg	2043:45-2046:45	1	20-41
	IIIg	1547-1548:30	1-	26-41		III	2056:45-2057	1-	22-39
	III	1622:30-1622:45	1-	25-39	11	III	1616:45-1617	1-	30-41
	III	1643-1643:30	1-	25-40		continuum	1722-1737	1	24-41
	III	1651:15-1651:30	1-	26-40		IIIg	1732:15-1734:45	3	23-41
	III	1706:45-1707:15	1-	20-37		III	1747:45-1748	1-	25-41
	III	1856:30-1856:45	2-	18-41		III	1838:45-1839:15	1-	25-41
	III	1856:45-1857:15	1+	18-41		III	2010:30-2011:30	2	18-41
3	III	1603:45-1604	1-	25-35		III	2019:45-2020	1-	28-38
	III	1745:40-1746:30	1+	22-41		continuum	2033:15-2059:45	2	23-41
	III	2119:30-2122:15	2	21-41		III	2033:15-2034	2	22-41
4	continuum	1555-1915	1-	25-41		IIIg	2044:15-2044:45	2	16-41
	continuum	1915-2114	1	24-41		II	2059-2109:30	1+	22-41
	continuum	2114-2153	2	22-41		IV	2119-2205	1	28-41
	continuum	2153-a2335	1	24-41		III	2138:45-2139	1-	28-41
5	III	1558:45-1559	1-	28-38		III	2040:45-2041:15	2	25-41
	III	1612-1612:30	1-	28-40	12	IIIg	1949:30-1951:45	1+	22-41
	III	1746:45-1747:15	1+	24-41		III	1956:45-1957	1-	30-38
	continuum	1859-2157	1	24-40		III	2028:30-2028:45	1-	22-36
	III	1914:30-1914:45	2	23-40		III	2148:45-2149	1-	25-41
	III	1927:30-1928:15	2	22-41	13	continuum	1810-2108	2	25-41
6	no observ.	1523-1630				III	1844:45-1845:15	3	32-38
	continuum	b1630-2205	1	23-41		IIIg	1953-1954	2+	24-41
	IIIg	1719-1719:45	2	20-41	14	IIIg	1635:30-1637	1	28-41
	III	2229:45-2230:15	1	24-36		III	1647:45-1648:15	1-	26-41
	III	2249:30-2249:45	1	18-35		III	1737-1737:15	1-	24-41
7	IIIg	1636:30-1639:45	1+	22-41		IIIg	1813:15-1814:30	1-	29-40
	IIIg	1727-1727:30	1+	25-41		III	1906:15-1906:30	1-	24-40
	continuum	1900-2245	1	27-41		IIIg	1921:15-1923:15	1-	24-38
	III	1942:30-1942:45	1+	24-41		III	2025:30-2025:45	1-	22-36
	III	1947-1947:15	1+	31-41		III	2032:30-2034:30	1-	22-41
	III	2128:15-2128:30	1+	28-41		III	2155:45-2156	1-	27-38
	III	2142-2142:30	2	22-41		III	2229:45-2230:30	1+	30-41
	III	2152:45-2153	1+	22-41		III	2250:30-2250:45	1-	26-39
8	III	1545:30-1546	1	30-41	15	continuum	b1516-1803	1+	24-41
	III	1548-1548:30	1	32-41		III	1553:45-1554	2	22-41
	III	1559:45-1600:15	1-	25-40		III	1613:15-1613:45	2	19-41
	III	1643:15-1643:45	1-	27-41		IIIg	1750:30-1751:45	2	18-41
	III	1735:30-1736	1	23-40		III	1820:15-1820:30	3	20-41
	III	1802:45-1803	1-	22-36		III	1847-1847:15	1	24-35
	continuum	1909-2036	1-	25-41		III	1848:15-1848:30	1	19-38
	III	1926:45-1927:15	1+	25-40		continuum	1902-a2345	1-	22-41
	III	1939:45-1940:15	2	23-41		IIIg	1904:30-1906	2	21-37
	IIIg	2013:30-2015:15	2+	25-40		IIIG	1931-1934	2	16-41
9	III	1551:15-1553:15	3	27-41		IIIg	1940:30-1941:30	2	16-41
	III	1834-1834:15	1+	30-41		III	1945:15-1945:30	2	16-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

JANUARY 1967

University of Colorado

7.6-41 Mc/s

Date Jan 1967	Bursts				Date Jan 1967	Bursts			
	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
15	III	1945:30-1946	2	16-41	20	IIIg	1645:30-1646:30	1	21-40
	III	1946-1946:30	2	16-41		continuum	1755-1804	1	22-41
	III	1946:30-1947:15	2	16-41		III	1833:15-1833:30	1	24-39
	IIIG	1957-2000:45	2	16-41		III	1906-1906:30	1	22-41
	IIIG	2007-2011	3	16-41		III	1911:30-1911:45	1+	22-41
	IIIG	2046:15-2048:45	2	15-41		III	1922:30-1922:45	1	29-40
	III	2241:30-2241:45	2	26-41		III	2016:15-2016:30	1	24-41
	IIIG	2243-2247:45	2	25-41		III	2020:30-2021:45	1	24-36
	IIIG	2250-2253:15	3	22-41		III	2024-2024:15	1+	20-40
	IIIg	2314:30-2318	1	22-41		IIIg	2031:15-2035	3	22-41
16	IIIg	1457:15-1459	2	22-41		continuum	2038:30-2056	1	26-41
	III	1711:30-1711:45	1	19-38		continuum	2056-2106	2	28-41
	III	1721:30-1721:45	1	24-41		IIIg	2057-2059:45	2	22-41
	III	1805:30-1805:45	1	24-41		continuum	2122-2215	1+	28-41
	III	1827:30-1827:45	2	22-38		III	2207:30-2207:45	1+	25-41
	III	1834-1834:30	1-	25-40		III	2226:45-2227	1	24-41
	III	1837:15-1837:45	3	22-40		III	2343:30-2343:45	2	21-41
	continuum	1847-2025	1-	28-41	21	IIIg	2149:15-2151:15	2	21-41
	III	1916:45-1917	1	24-41		II	2151:15-2157:30	3	28-41
	III	1939:30-1944	1	21-41		IV	2157:30-2221	1-	28-41
	III	2053:30-2053:45	1-	28-38		IIIg	2312:30-2314:15	1+	25-41
	III	2102:30-2102:45	1-	22-41	22	IIIg	1522:15-1523:15	1-	22-41
	III	2111:15-2111:30	1-	26-38		III	1910:15-1910:30	1-	28-38
	III	2119:30-2119:45	1-	25-37		III	1916:30-1916:45	1-	28-39
	III	2204:30-2204:45	1	22-41		continuum	1921-1931	1-	25-41
	continuum	2216-a2322	1-	22-41		continuum	1950-2107	1	28-41
	III	2230:15-2230:30	2	22-41		III	2011:15-2011:30	1	24-41
	III	2258:30-2259:15	3	21-41	23	III	1602:45-1603	1-	22-41
17	continuum	b1501-a2325	1+	24-41		continuum	1635-1708	1-	27-41
	IIIg	1656:45-1659:30	2	24-41		III	1639:15-1639:30	1	24-41
	III	1802-1803:45	3	20-41		III	1642:15-1642:30	1	23-41
18	III	1631:45-1632	1	22-41		III	1647:30-1647:45	1	18-41
	III	1857:45-1858	1	23-39		III	1714:45-1716:45	1	21-41
19	III	1524:30-1524:45	1-	30-40		III	1758:15-1758:30	1+	25-41
	III	1551:45-1552:15	1+	22-41		continuum	1815-2102	1-	28-41
	III	1821:45-1822:15	1-	27-39		III	2018:45-2019:30	1+	21-39
	III	1948:45-1949	1	28-34		IIIg	2027:45-2031	2	17-41
	IIIg	2210:15-2212	1	26-41		IIIG	2042-2044	1+	22-41
	III	2222:45-2223	1	23-41		continuum	2102-2200	1	28-41
20	continuum	b1509:30-1538:15	1-	25-41		III	2222:30-2223:30	1-	25-38
	III	1510:15-1510:30	1+	25-41		III	2229:30-2229:45	1-	25-41
	III	1510:30-1510:45	1+	25-41		III	2311:45-2312	1-	28-39
	III	1512:30-1512:45	2	21-41	24	continuum	b1505-2019:45	1-	25-41
	III	1512:45-1513	2	21-41		III	1651-1654:30	1+	19-36
	III	1514:30-1514:45	1	21-41		IIIg	1846:45-1849:30	1+	20-41
	III	1517:30-1517:45	2	19-41		IIIG	2019:45-2024:45	3	16-41
	III	1529:15-1529:30	1+	22-41		IV	2025:30-2047	1	28-41
	continuum	1538:15-1548:30	1+	30-41		II	2032-2043	1	25-41
	III	1546:45-1547:30	2	22-41		continuum	2047-a2357	2	27-41
	III	1600:45-1601:15	1	23-41		III	2131:30-2132:	2	24-41
						III	2314:15-2314:30	2	22-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

JANUARY 1967

University of Colorado

7.6-41 Mc/s

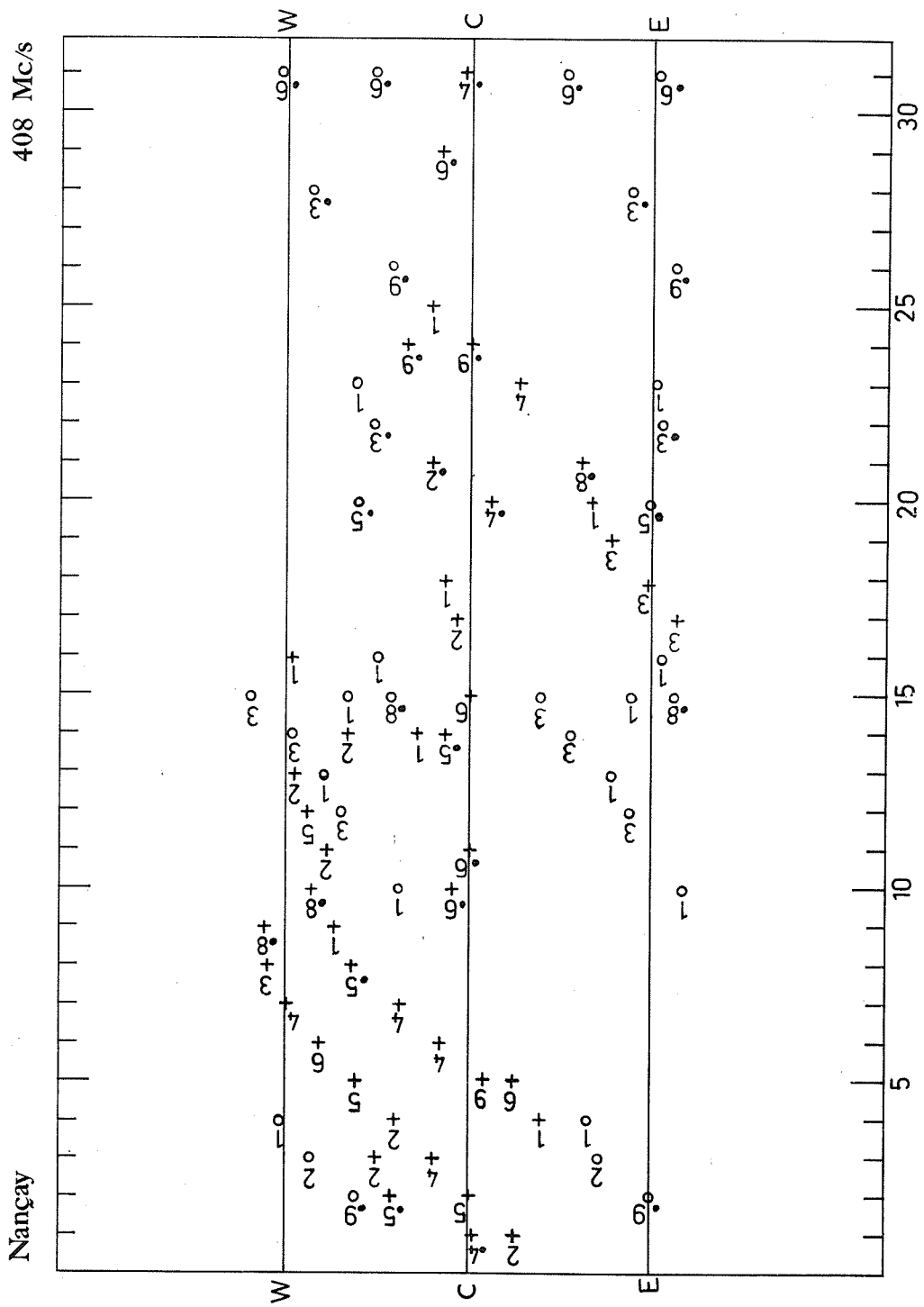
Date Jan 1967	Bursts			
	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
25	continuum	b1520-20000	1-	28-41
	III	1643:15-1643:45	1+	20-41
	IIIg	1902-1904:45	2	18-41
	III	2220:45-2221:15	1+	21-41
	III	2244-2244:15	1	20-41
26	continuum	1615-2110	1-	27-41
	III	1732:45-1733:15	1	20-41
	IIIg	1826:45-1830	1+	22-40
	III	2205:45-2206	1	30-41
	III	2317:45-2318	1-	22-41
27	no observ.	1510-1835		
	continuum	b1835-a2340	1+	22-41
	III	2158-2158:15	2	22-38
28	continuum	1415-1840	1+	25-41
	continuum	1840-2200	2	19-41
	continuum	2200-a2403	1+	27-41
	III	2259:15-2259:30	2	25-41
	continuum	b1415-1718	1	28-41
	IIIg	1526:15-1529:45	3	21-41
	continuum	1718-2000	1+	20-41

Date Jan 1967	Bursts			
	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
29	continuum	2000-2201:30	1-	28-41
	III	2142:15-2142:30	1+	16-41
	IIIG	2203-2208	3	18-41
	continuum	2201:30-2245	2	21-41
	continuum	2245-a2330	1	28-41
30	continuum	b1405-2251:45	1+	25-41
	III	1600:45-1601:15	3	28-38
	IIIg	1601:15-1604:45	3	22-41
	IIIg	1625:30-1627:15	3	15-41
	III	1939-1942	3	20-41
	IIIg	2032-2034:15	3	18-41
	IIIg	2107-2108:30	3	18-41
	III	2246:30-2247:45	3	24-41
	continuum	2251:45-2257:15	2	22-41
	continuum	2310-2340	2	26-41
	continuum	2340-a2435	1	25-41
31	continuum	b1415-a2136	1+	26-41
	no observ.	2136-2350		

g Group of 10 or less type IIIs
G Group of 11 or more type IIIs

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

JANUARY 1967

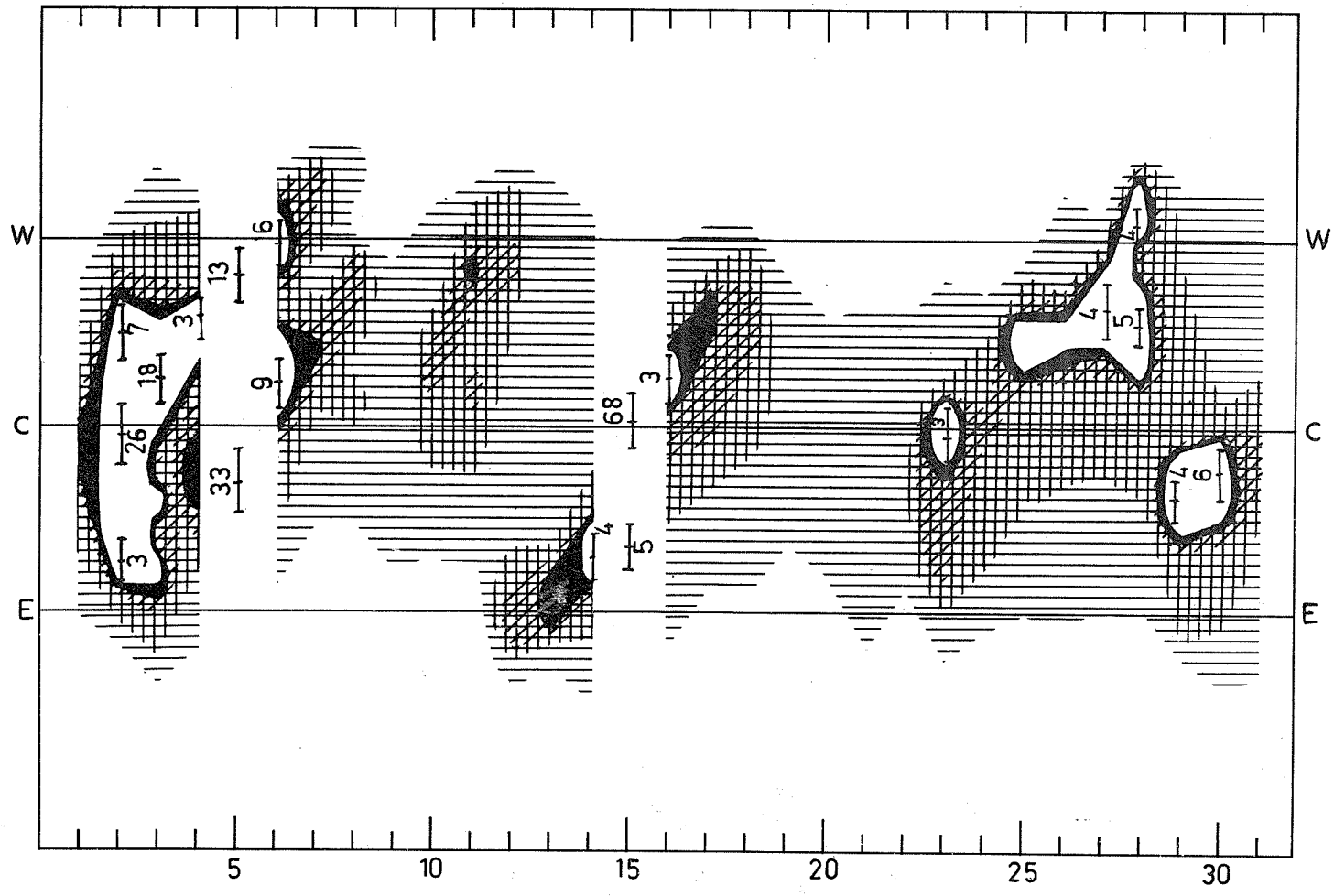


SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

JANUARY 1967

Nançay

169 Mc/s



JANUARY 1967

27 Jan 67

28
Jan 67

FLEURS, AUSTRALIA

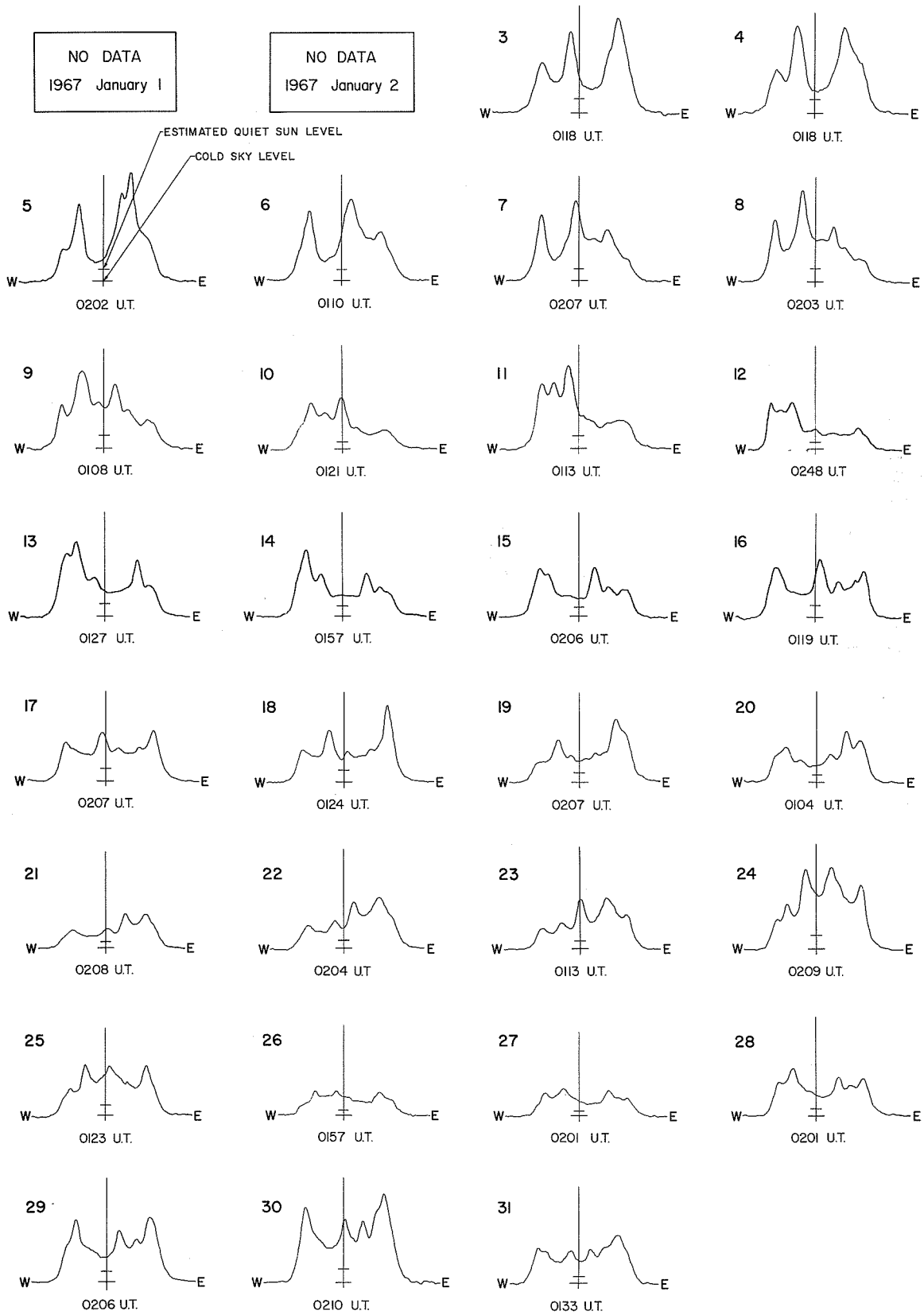
EAST - WEST SOLAR SCANS

January 1967

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

NO DATA
1967 January 1

NO DATA
1967 January 2

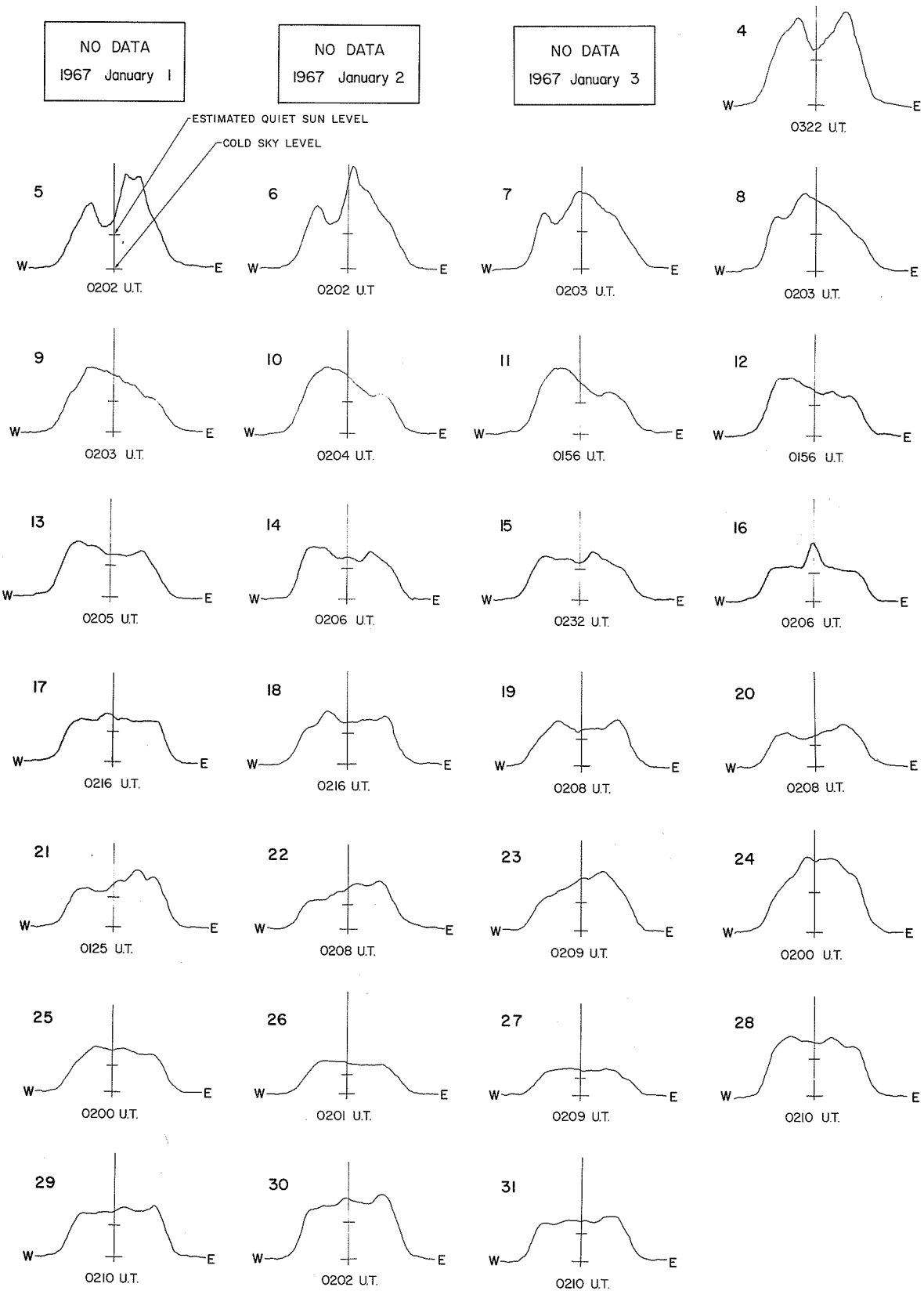


EAST - WEST SOLAR SCANS

January 1967

FLEURS, AUSTRALIA

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



SOLAR PROTON EVENTS (Provisional)

	Jan. 28	Jan. 29	Jan. 30	Jan. 31	Feb. 1	Feb. 2
I Absorption						
A. VLF transmission						
1. GBR - Rugby, England to Anchorage, Alaska	start at 0500; amp. to zero at 0600				still affected by PCA when GBR went off air	
2. NSS - Annapolis, Md. to Anchorage	start at 0500 40° phase adv. over 1-2 hrs. max. at 0700					effects still visible
3. GBR - Rugby, England to Boulder, Colo.	start at 0200; max. about 1600 360° phase adv.				still continuing when transmitter off air at 0000	
4. Aldra, Norway - Boulder	start at 0200; max. at 1200 >360° phase adv.				still continuing	
B. Riometry						
1. College, Alaska	start at 1800; max. of 3 dbs. at 2200	absorption still visible	absorption barely visible	recovery		
2. Barter Is., Alaska	start at 1800; max. of 4 dbs. at 2200	"	"	"		
3. Barrow, Alaska	start at 1820; max. of 4 dbs. at 2200	"	"	"		
4. Antarctica (Byrd Station)	start at 0600 max. of 13 dbs.	← communications blackout →				some communications restored
C. Forward Scatter Barrow to Anchorage path	start at 1800; max. of approx. 10 dbs. at 2100. Also noise absorption of 5 dbs.					
II Particle count mechanisms						
A. Deep River neutron monitor	start at 0839; max. of 16% increase at 1115.	recovery about 0700	(see illustration on other side)			

Several space vehicles reported neutron or proton events during this period.

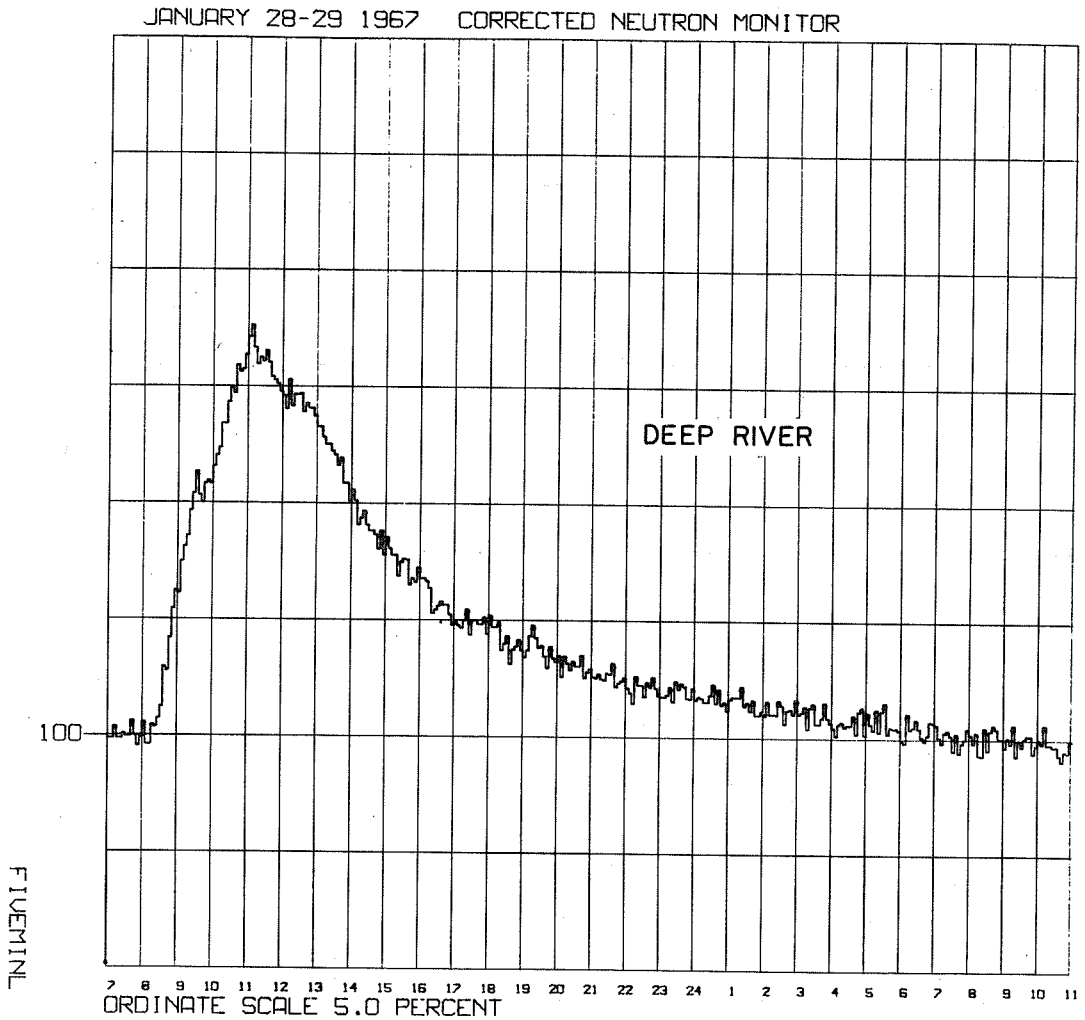
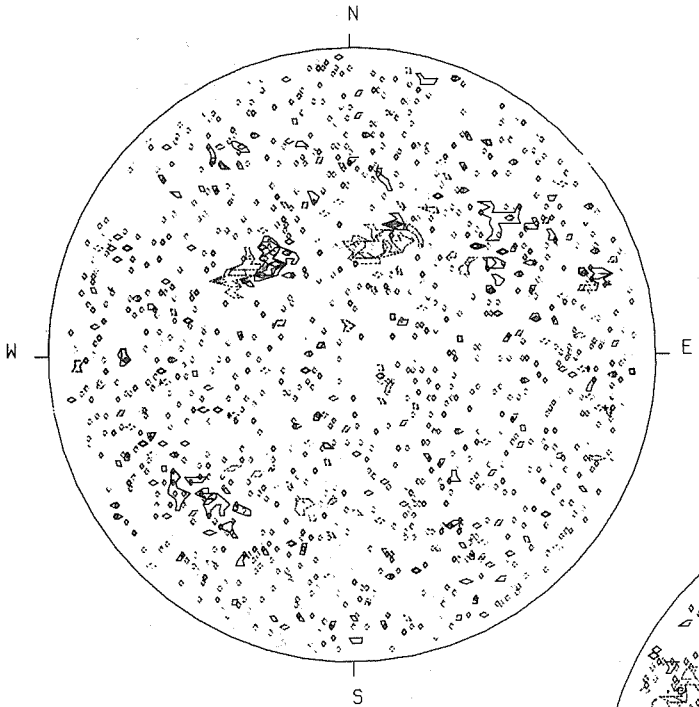

JANUARY 28-29 1967 CORRECTED NEUTRON MONITOR
DEEP RIVER
100
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 1 2 3 4 5 6 7 8 9 10 11
ORDINATE SCALE 5.0 PERCENT
FIVEMIN

Table of Contents
for December 1966 Data

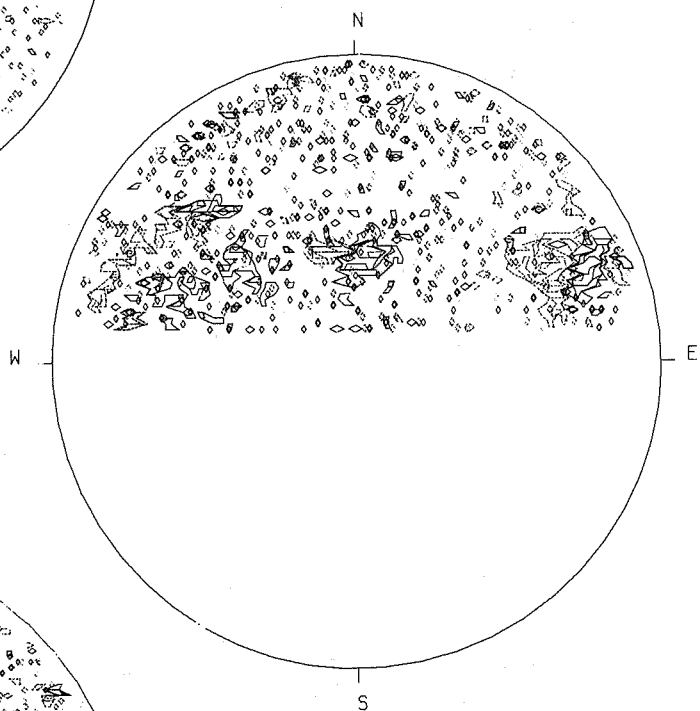
MOUNT WILSON OBSERVATORY MAGNETOGRAMS

DECEMBER 1966

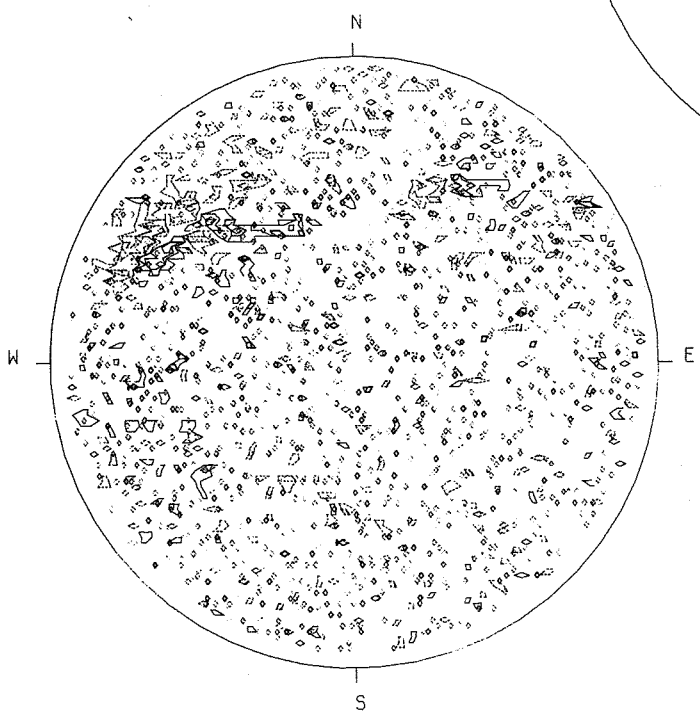
SOLID-PLUS
DOTTED-MINUS
LEVELS
(GAUSS)
±3.00 ±15.00
±6.00 ±25.00
±10.00 ±40.00



12/1/66 16.82-18.30
DELTAY=62.0 DELTAX=50.0
-3 LEVEL NOT PLOTTED



12/12/66 22.07-17.51
DELTAY=77.6 DELTAX=50.0
-3 LEVEL NOT PLOTTED

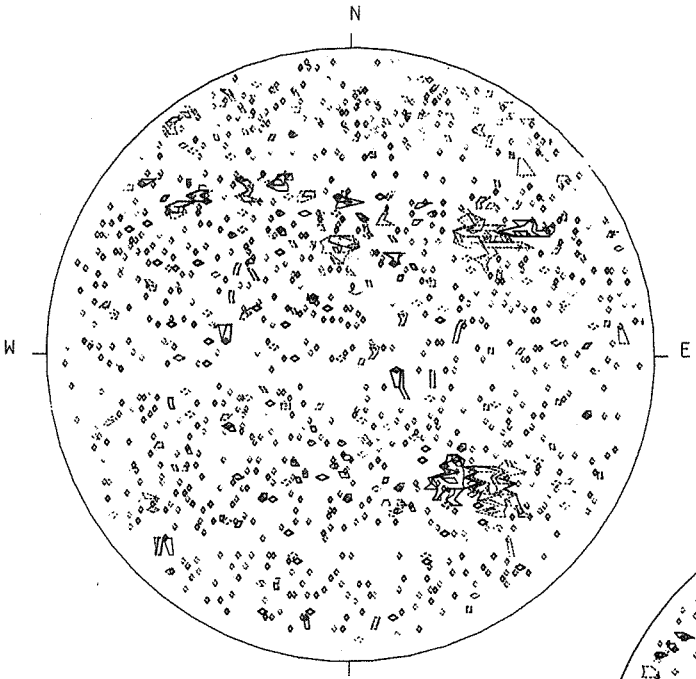


12/20/66 16.72-18.16
DELTAY=62.0 DELTAX=981.0

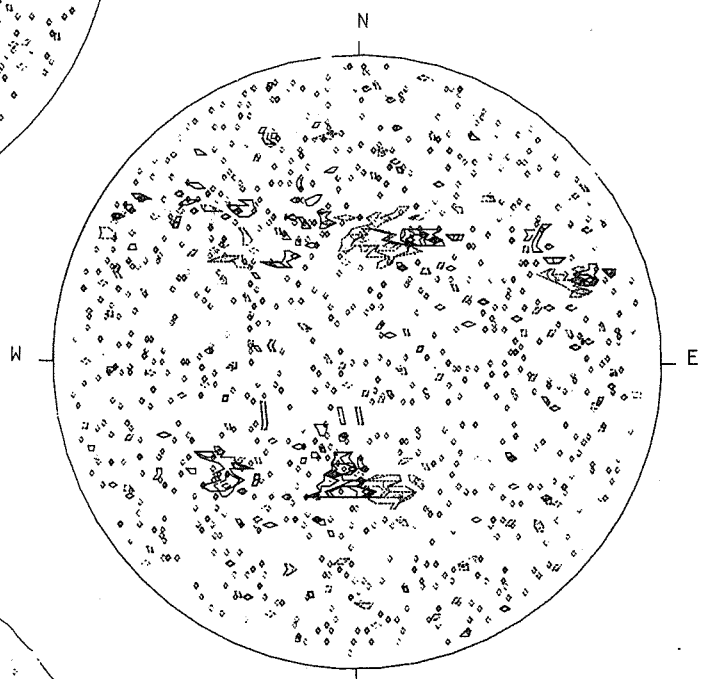
MOUNT WILSON OBSERVATORY MAGNETOGRAMS

DECEMBER 1966

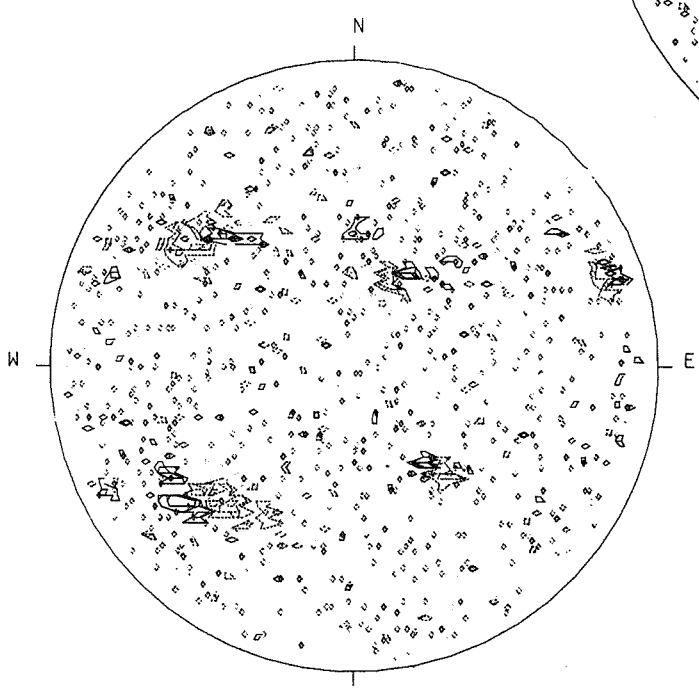
SOLID-PLUS
DOTTED-MINUS
LEVELS
(GAUSS)
±3.00 ±15.00
±6.00 ±25.00
±10.00 ±40.00



12/26/66 18.63-20.17
DELTAY=67.5 DELTAX=49.1
±3 LEVEL NOT PLOTTED



12/28/66 17.70-19.17
DELTAY=63.4 DELTAX=51.9
-3 LEVEL NOT PLOTTED



12/31/66 17.54-18.99
DELTAY=62.2 DELTAX=50.6
-3 LEVEL NOT PLOTTED

FINAL CORONAL LINE EMISSION INDICES

DECEMBER 1966

CMP December 1966	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1
1	65	81	14	35	66	97	4	8	x	x	x	x	x	x	x	x
2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
3	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4	54	76	10	13	12	14	x	x	x	x	x	x	x	x	x	x
5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8	96	124	10	26	23	37	6	10	37	50	11	13	79	112	13	24
9	x	x	x	x	x	x	x	x	71	96	25	33	114	153	15	27
10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
11	x	x	x	x	x	x	x	x	59	90	x	x	145	177	x	x
12	x	x	x	x	x	x	x	x	45	83	x	x	65	97	x	x
13	76	114	5	15	29	45	5	15	32	46	13	14	109	160	24	41
14	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
15	x	x	x	x	x	x	x	x	24	30	7	15	78	122	22	51
16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
18	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
19	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
22	97	144	18	29	23	27	17	23	14	18	8	20	30	42	6	12
23	72	94	13	20	18	22	13	18	x	x	x	x	x	x	x	x
24	x	x	x	x	x	x	x	x	23	47	5	7	49	92	8	17
25	81	146	x	x	24	29	x	x	21	28	10	20	45	72	13	20
26	71	122	x	x	x	x	x	x	29	40	17	24	49	71	32	55
27	97	129	16	20	51	73	16	32	46	58	9	23	72	102	11	16
28	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
29	116	181	12	27	77	102	21	33	x	x	x	x	x	x	x	x
30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
31	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

SUDDEN IONOSPHERIC DISTURBANCES

SHORT WAVE RADIO FADEOUTS — SUDDEN PHASE ANOMALIES
SUDDEN COSMIC NOISE ABSORPTION — SUDDEN ENHANCEMENTS OF SIGNAL
SUDDEN ENHANCEMENTS OF ATMOSPHERICS — SUDDEN FREQUENCY DEVIATIONS

DECEMBER 1966

DEC 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	STATIONS	KNOWN FLARE
02	1210	1312	1220	1	S 2							TR	*
05	1210	1303	1218	1	S 2							TR	
07	0323	0348	0330	1	SL 1-							MA	0322
07	0324	0348	0332	1					22			MA(NPG18-22)	
07	2020			1					56			BO(WWVL20-56)	2021
07	2021	2025	2023	5							03	HA(WWVH10-0.3) BO(WWI12-0.2)	
08	1211	1333	1234	1	SL 2							TR	1209
09	0300	0323	0308	1	SL 1							MA	0257
09	0300	0323	0312	1					32			MA(NPG18-32)	
09	0305	0312	0308	1		11	1-					MA	
09	1756			5					99			BO(WWVL20-200) AN(NPM26-30) HA(WWVL20-58) UM(WWVL20-115)	1755
09	1756	1816	1801	1							16	BO(WWI9-1.6)	
09	1756	1900	1801	3						2		A18 A1 UM	
09	1756	1909		5				1+				BO AZ A6 A19	
09	1756	1932	1806	5	SL 2+							TR AN BA BE GS HU MC TO WS	
09	1756	1932	1806										
09	1759	1825	1804	5		46	2					BO MC HA	
09	1859	1901	1859	5							05	BO(WWI12-0.5) HA(WWVH5-0.5)	
10	1223	1428	1240	1					35			UM(GBR16-35)	1210E
10	1436	1525		5	SL 1-							TR BA HU	1430
10	1735	1751	1742	5							05	BO(WWI9-0.5)	1736
10	1741	1830	1745	3						1+		A1 A18	
10	1742			5					70			BO(WWVL20-70) HA(WWLV20-22)	
10	1742	1805	1755	1				1-				A6	
10	1742	1815U		5	S 1-							HU AN BE MC	
10	2320		2340	5	S 1							OK HA MA TO	2305
10	2328	0030	2340	5					99			MA(NPG18-108) AN(NPM26-36) HA(WWVL20-36)	
11	0530	0720	0550	1						1		ND	*
11	0533	0712		5				2				KE TA	*
11	0537	0605	0547	1		8	1-					MA	*
11	0540	0710	0550	5	S 2							OK MA	*
11	1914			5					99			BO(WWVL20-125) HA(WWVL20-22)	1904
11	1919	1925	1920	5							06	BO(WWI12-0.6) HA(WWVH10-0.5)	
11	1920	1938	1924	5	S 1-							HU MC	
11	2352	2354	2353	1							02	HA(WWVH5-0.2)	2323
12	2239	2242	2240	1							04	HA(WWVH5-0.4)	2239
13	0112	0128	0114	1					20			MA(NPG18-20)	0110
13	0653	0708	0657	1					26			MA(NPG18-26)	*
13	0654	0717	0702	1	SL 1-							MA	*
13	1727			1					50			BO(WWVL20-50)	1715
13	1731	1815	1743	1				2+				A6	
13	1921	1927	1924	1							02	BO(WWI13-0.2)	1920
13	1922			5					40			BO(WWVL20-40) HA(WWVL20-07)	
13	2305	2308	2306	1							08	HA(WWVH10-0.8)	2300
13	2305	2407	2316	5					99			MA(NPG18-168) HA(WWVL20-43) AN(NPM26-18)	
13	2309	2349	2325	5	S 1							MA GH OK TO SY	
13	2310	2328	2319	1		7	1-					MA	
15	0524	0625	0544	1					36			MA(NPG18-36)	0523
15	0526	0610	0528	1	S 1-							MA	
17	0814	0850	0820	1						2		ND	0811E
17	0814	0900	0820	5				1+				ND KE	
17	0815	0832	0820	5	S 1							MA OK	
17	0817	0826	0823	1		5	1-					MA	
17	0953	1120		3				2				KE PO	0943
17	1230	1330	1245	1						2		UM	1230
17	1230	1335	1243	1					63			UM(GBR16-63)	
17	1238	1326		1				1				PO	
18	1422	1512	1435	1					31			UM(NSS21-31,NBA24-17)	1409
21	0450	0550	0517	1					36			MA(NPG18-36)	*
21	1450	1547	1515	1						3		UM	
21	1453	1556	1505	5	SL 1							TR BA HU MC	
21	1455	1550		1				1+				PO	

SUDDEN IONOSPHERIC DISTURBANCES

DECEMBER 1966

DEC 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	STATIONS	KNOWN FLARE
21	1456			5					99			BO(WWVL20-295) UM(NSS21-108)	
21	1910			5					95			BO(WWVL20-95) HA(WWVL20-11)	1910U
21	1925	2025	1948	1						3		UM	
21	1938			5					99			BO(WWVL20-280) HA(WWVL20-61) MA(NPG18-29) UM(NSS21-62,NBA24-43)	
21	1938	2015	1949	5	SL 1+							TR HU MC WS	
21	1940	1954	1945	1		9	1					BO	
22	0110	0205		3	S 1							CA GH	
22	2229	2241	2232	1					32			MA(NPG18-32)	2210
23	0229	0258	0243	1		13	1-					MA	*
23	0229	0312	0243	1					47			MA(NPG18-47)	*
23	0230	0254	0244	1	S 1							MA	*
23	0754	0815	0807	5	SL 1							MA OK	0752
23	0754	0830	0800	5				2				ND A17 KE	
23	0754	0833	0804	1					36			MA(NPG18-36)	
23	0754	0930	0805	1						1		ND	
23	0755	0825	0803	5		50	2					ND MA RO	
23	1114	1155	1127	1						2		ND	1110
23	1116	1201		1				2+				KE	
23	1305		1330	1					60			UM(NBA24-60)	1303
23	1315	1415	1328	1						2+		UM	
23	1334	1430		1	S 1-							BA	
23	1505	1535	1510	5	SL 1+							HU BA BE MC TR	1506
23	1505	1600	1512	1						2		UM	
23	1506			5					99			BO(WWVL20-295) UM(NBA24-60)	
23	1506	1515	1507	1							03	BO(WWI9-0.3)	
23	1639			1					36			BO(NBA24-36)	1637
23	1640	1719	1646	5	SL 2							BE BA HU TR WS	
23	1640	1752	1652	1						1+		UM	
23	1959			5					35			BO(WWVL20-35) HA(WWVL20-18)	1956
23	2211	2330	2224	5					25			MA(NPG18-25) HA(WWVL20-22)	2135
24	0345	0415	0355	1						1-		ND	0345
24	0348	0409	0354	1		9	1-					MA	
24	0348	0418	0355	1					50			MA(NPG18-50)	
24	0350	0408	0356	1	S 1-							MA	
24	0435	0528	0442	1						1-		ND	0444
24	0441	0512	0458	1		11	1-					MA	
24	0441	0544	0458	5	SL 2							MA OK	
24	0441	0630	0456	1					70			MA(NPG18-70)	
24	1445		1455	1					23			UM(NSS21-23,NBA24-17)	1443
25	2339	2403	2343	5					64			MA(NPG18-64) HA(WWVL20-7)	2311
28	1757	1810	1800	1							11	BO(WWI8-1.1)	1758
28	1759	1820	1805	1	SL 1-							WS	
28	1800			1					42			BO(WWVL20-42)	
30	2233			5					99			BO(WWVL20-110) HA(WWVL20-36) MA(NPG18-68)	2231
31	0844	0901	0853	5				1-				MA TA	0840
31	1652	1703	1654	1							08	BO(WWI8-0.8)	1647
31	1657	1712	1703	1	SL 1							TR	
31	1657	1810	1702	1					62			UM(NSS21-62,NBA24-43) BO(WWVL20-**)	
31	1700	1725	1707	1						2		UM	
31	1838	1915	1846	5					17			UM(NBA24-17,NSS21-15) BO(WWVL20-**) HA(WWVL20-07)	1836
31	1839	1849	1841	5							07	BO(WWI8-0.7) HA(WWVH5-0.4)	

No SWF observations were made at Boulder during the month of December 1966.
The equipment for recording SCNA-SEA at Rome was out of operation December 1 - 18, 1966.

18 Mc/s Bursts will no longer be carried in the Sudden Ionospheric Disturbances table.
The data is filed in World Data Center A and may be obtained from them.

RIOMETER EVENTS

DECEMBER 1966

Great Whale River — 30 Mc/s

DEC. 1966	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS
02	0106	2233	0321	17	6
03	1008	2209	1118	19	1
04	0238	1950	0955	39	6
05	0045	1138	0500	27	11
05	1737	2048	1752	9	10
06	0004		1500		
07		0105		7	6
07	1700		1737		
08		0437		9	3
08	1523		2055		
09		0210		5	5
09	1710	2152	1802	4	1
10	0555	1234	1010	10	2
10	1459		2225		
11		0428		5	4
11	2052		2144		
12		0030		4	3
13	0227	2236	1338	16	15
14	0211				
15		0828	0442	24	20
15	1054	2151	1823	33	5
16	0332		1321		
17		0148		16	10
17	1034		1603		
18		0004		21	2
18	0337	0906	0550	8	3
18	1435		1640		
19		0200		3	5
19	*	2257	2151	3	3
20	1526				
21			1702		
23		0428		41	20
23	1300		1827		
24		0149		16	1
24	0537	2220	1130	21	6
25	0400	*	1340	20	13
26	0549	*	1547	57	13
27	0058	*	1408	80	11
28	0253	2220	1422	46	14
29	0150	1120	0229	12	3
29	1337				
30			1727		
31		2228		20	10

* 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.

COSMIC RAY INDICES
(Neutron Monitors)

DECEMBER 1966

DEC. 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	*	6865.4	4121.3	*
2		6866.9	4105.7	
3		6846.2	4096.2	
4		6813.2	4097.2	
5		6795.2	4103.6	
6		6793.4	4104.4	
7		6790.0	4105.0	
8		6810.8	4120.7	
9		6821.7	4108.8	
10		6841.4	4116.1	
11		6846.4	4119.7	
12		6870.7	4125.4	
13		6790.4	4062.5	
14		6671.5	4015.3	
15		6629.0	3995.5	
16		6645.5	3989.7	
17		6702.4	4007.4	
18		6659.0	3958.0	
19		6662.3	3962.5	
20		6719.2	3999.1	
21		6712.5	4016.9	
22		6706.0	4022.0	
23		6748.7	4037.5	
24		6764.6	4050.2	
25		6708.7	4014.8	
26		6707.8	4033.1	
27		6721.9	4070.0	
28		6683.4	4020.9(34)	
29		6688.4	4005.6	
30		6701.9	4021.5	
31		6704.7	4021.0	

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

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

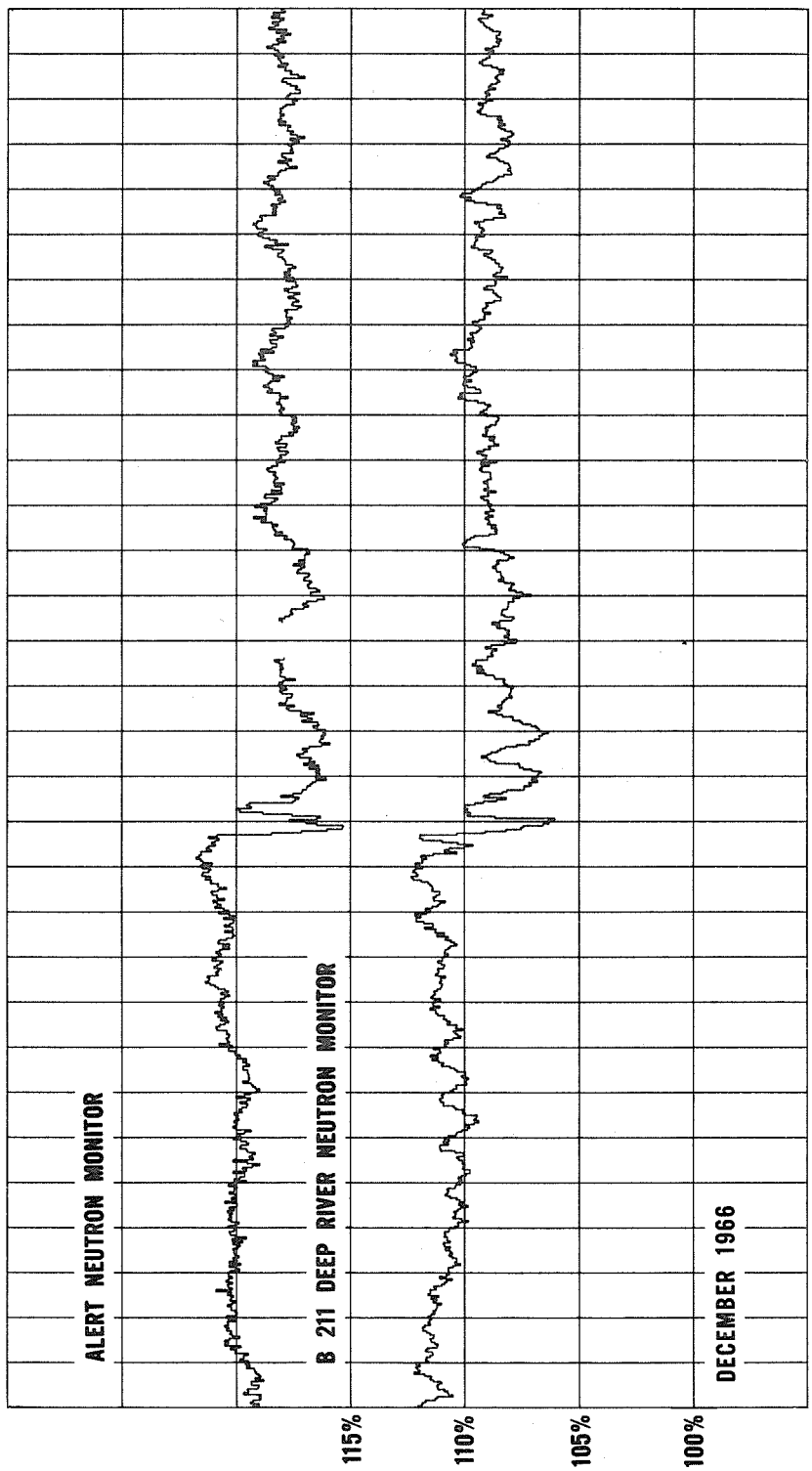
Deep River Neutron Monitor, Scaling Factor 300.

Climax IGC Station B305, Scaling Factor 100.

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

DECEMBER 1966



GEOMAGNETIC ACTIVITY INDICES

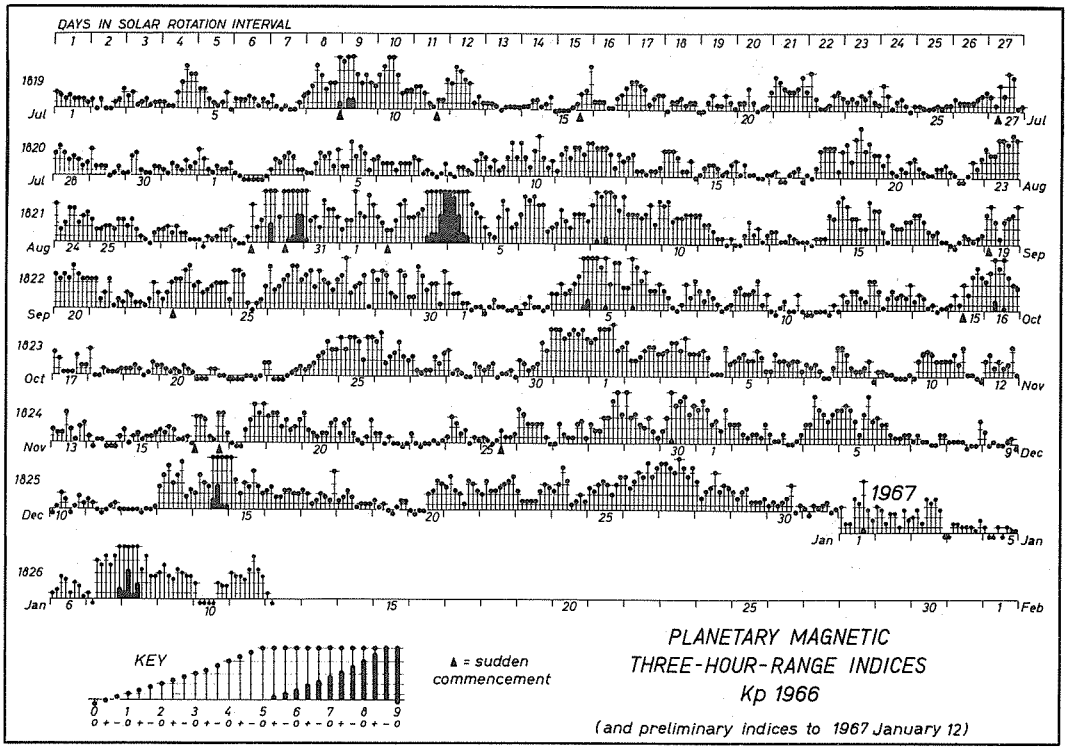
DECEMBER 1966

DAY		Kp THREE-HOUR RANGE INDICES 1	2	3	4	5	6	7	8	SUM	Ci	Cp	Ap
1		4-	4+	4-	2+	3-	2-	4-	2+	24+	1.0	0.9	17
2		2+	2+	1+	1	1+	1+	1	2+	13	0.2	0.3	6
3	QQ	1+	1-	1-	1+	0+	0+	1-	1+	7-	0.1	0.1	4
4		2+	2+	5-	4-	3+	3-	3+	4-	26	1.1	1.0	19
5	D	4-	4	4-	3-	1+	3+	5-	3-	26	1.1	1.0	20
6		3	2+	2+	1+	1	1	1+	1+	14-	0.3	0.4	7
7	Q	1-	1+	1-	1-	0+	0+	1+	1+	7-	0.1	0.1	4
8	Q	1-	1-	1-	1-	0	0+	0+	3-	6	0.1	0.1	4
9	QQ	2-	0+	1-	0+	0+	1-	1	0	5	0.1	0.0	3
10	Q	0	1-	2	1+	0	1-	2-	1	7+	0.1	0.1	4
11	QQ	1+	1	0+	0	0+	1-	1	0+	5	0.1	0.0	3
12	QQ	0+	0+	0+	0+	0	0+	0+	1-	3-	0.0	0.0	2
13	D	3-	4-	4+	3	4-	5-	2-	2+	26	1.2	1.0	20
14	D	2	4-	3	3-	6	7	5+	5+	35	1.7	1.6	48
15		5	3+	2	3	3-	4	3-	2	25-	1.2	1.0	18
16		2+	3-	2-	2-	2+	2+	2	2	17	0.5	0.4	8
17		2+	2	1	1+	2	2-	1+	4	16-	0.7	0.5	9
18	Q	1+	2-	2+	2-	1-	1	1	1	11-	0.1	0.2	5
19	Q	1+	1-	1	0+	0	1-	1+	1+	7-	0.1	0.1	3
20		0+	0	0+	0+	2	2+	3+	3	12-	0.5	0.3	7
21		3-	4-	2+	2	1	3+	3	2+	20+	0.7	0.7	12
22		2	3+	2+	2+	3-	3	3+	4-	23-	1.0	0.8	14
23		2+	1+	1+	1+	1+	2+	3	3-	16-	0.7	0.4	8
24		2+	3	4+	3+	1	1+	2	1+	19-	0.6	0.7	12
25		3-	2+	3	3+	3	2	3	4-	23	0.8	0.8	14
26	D	4-	3-	3+	4	4-	5-	4-	4+	30	1.4	1.2	24
27	D	5-	5-	4+	4	5	4+	4-	4+	35	1.5	1.3	34
28		3+	2-	2+	3-	4	2+	3	3-	22	0.9	0.8	14
29		2+	2-	2+	3-	1+	1+	1+	2-	15-	0.2	0.4	7
30		1	1+	1	1+	2-	3	0+	1	11-	0.5	0.3	6
31	QQ	1-	0	1	1-	1	1+	0+	1-	6-	0.0	0.1	3
										MEAN	0.60	0.54	11

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 commencements (ssc) occurred December 22 at 0441UT.

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

1966

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

PRINCIPAL MAGNETIC STORMS

DECEMBER 1966

DATE 1966 MO. DA.	STORM TIME UT START	STORM TIME UT END MO. DA. HR.	OBS.	GEO-MAG. LAT.	SUDDEN COMMENCEMENT TYPE	AMPLITUDES D(')	AMPLITUDES H(γ)	AMPLITUDES Z(γ)	C FIGURE DEGREE OF ACTIVITY	MAXIMAL ACTIVITY ON K-SCALE 0 TO 9 MO. DA.	3-HOUR PERIOD	K INDEX	RANGES D (')	RANGES H (γ)	RANGES Z (γ)	STORM NUMBERS
12 04	06—	12 06 03	COLL	64.6N	..	..	..	..	M	12 04	3,4,5	5	85	1060	380	82
										12 05	3,7					82
	0610	12 05 24	IRKU	40.8N	SC	− 0.1	+ 4	+ 2	M	12 04	3	5	15	74	27	82
										12 05	7	5				82
	0545	12 06 04	MBOR	21.3N	..	..	..	..	M	12 04	5	5	3	103	32	82
	0400	12 06 03	HYDE	7.6N	..	..	..	..	M	—— ——	—	—	3	101	26	82
	0602	12 06 03	BANG	04.8N	SC	—	+ 6	—	M	12 04	3	5	——	56	—	82
	1017	12 04 21	HUAN	0.6S	..	..	..	..	M	12 04	6,7	5	7	137	22	82
	06—	12 05 03	HRMN	33.3S	..	..	..	..	M	12 04	5	5	16	91	59	82
12 12	2330	12 14 00	ALIB	09.5N	..	..	..	..	M	12 13	6	5	5	151	35	83
	2330	12 13 19	HYDE	7.6N	..	..	..	..		—— ——	—	—	4	160	23	83
	2330	12 14 00	ANNA	01.5N	..	..	..	..	M	—— ——	—	—	5	176	56	83
	2330	12 14 00	TVAN	01.1S	..	..	..	..		—— ——	—	—	5	179	99	83
12 13	01—	12 15 20	COLL	64.6N	..	..	..	..	S	12 14	6	8	616	2500	1970	83
	01—	12 13 19	IRKU	40.8N	..	..	..	..	M	12 13	2,6	5	9	107	30	83
	0100	12 15 17	TUCS	40.4N	..	..	..	..	MS	12 14	5	6	17	140	10	83
	0103	12 13 19	SJUA	29.9N	..	..	..	..	M	12 13	2,6	5	6	63	22	83
	0107	—— —— ——	MBOR	21.3N	SC	0	+19	0	M	12 13	6	5	4	84	20	83
	0110	12 13 19	BANG	04.8N	SC	—	+12	—	M	12 13	6	5	——	56	——	83
	0109	12 13 17	GUAM	04.0N	SC	—	+16	..	M	12 13	2	5	1	84	8	83
	0110	12 13 20	HUAN	0.6S	..	..	..	..	MS	12 13	6	7	12	405	30	83
	0106	12 15 19	APIA	16.1S	..	..	..	..	M	12 13	2					83
										12 14	6	5	7	163	23	83
	0110	12 15 18	HRMN	33.3S	..	..	..	..	MS	12 14	6	7	42	219	202	83
	01—	12 15 19	GNAN	43.2S	..	..	..	..	MS	12 14	5,6	7	36	128	203	83
	0000	12 15 20	TOOL	46.7S	..	..	..	..	MS	12 14	6	7	38	217	79	83
	0110	12 13 18	KGLN	57.3S	..	..	..	..	M	12 13	2	5	——	——	——	83
12 13	21—	12 15 08	BANG	04.8N	..	..	..	..	MS	12 14	5,6,7	7	——	158	——	84
	1732	12 15 06	GUAM	04.0N	SC	—	+05	-02	M	12 14	5,6	5	2	58	14	84
12 14	02—	12 15 04	SITK	60.0N	..	..	..	..	MS	12 14	4,5	7	120	650	670	84
	12—	12 15 06	FRED	49.6N	..	..	..	..	M	12 14	5,6,8	5	24	163	43	84
	1227	12 15 19	IRKU	40.8N	SC	0	+17	+ 3	MS	12 14	5	6	23	158	27	84
	1225	12 15 18	SJUA	29.9N	..	..	..	..	MS	12 14	5	6	8	119	46	84
	1225	12 16 01	MBOR	21.3N	SC	0	+12	0	MS	12 14	5	7	7	216	17	84
	1226	12 16 18	ALIB	09.5N	SC	− 0.9	+22	− 3	MS	12 14	5	7	3	205	27	84
	0115	12 15 19	HYDE	7.6N	..	..	..	..	MS	—— ——	—	—	3	203	17	84
	1226	12 16 18	ANNA	01.5N	SC	− 0.5	+19	+ 7	MS	—— ——	—	—	3	200	66	84
	1050	12 14 24	HUAN	0.6S	..	..	..	..	MS	12 14	6	7	9	438	44	84
	1226	12 16 18	TVAN	01.1S	SC	0.0	+15	+19	MS	—— ——	—	—	3	233	169	84
	1200	12 15 04	AMBE	47.7S	..	..	..	..	MS	12 14	5,6	7	21	244	——	84
	1230	12 15 17	KGLN	57.3S	..	..	..	..	S	12 14	6	9	——	——	——	84
12 16	1723	12 17 17	MBOR	21.3N	SC	− 0.3	+12	0	M	12 17	6	3	——	——	——	85
12 22	0441	12 23 05	COLL	64.6N	SC *	3	78	17	M	12 22	5	5	35	420	190	86
	0440	12 22 24	IRKU	40.8N	SC	+ 1.9	+ 5	+ 1	M	12 22	5,6,7	4	8	41	20	86
	0441	12 23 08	MBOR	21.3N	SC	− 0.8	+23	− 2	M	12 22	6	4	——	54	——	86
	0440	12 23 01	HYDE	7.6N	SC	− 0.2	+18	− 1	M	—— ——	—	—	2	64	11	86
	0443	12 23 01	BANG	04.8N	SC	—	+13	—	M	12 23	7,8	4	——	44	——	86
12 24	04—	12 24 13	COLL	64.6N	..	..	..	..	MS	12 24	4	6	125	840	460	87
12 25	06—	12 28 23	COLL	64.6N	..	..	..	..	MS	12 26	6	7	140	1410	720	88
	0910	12 27 22	HYDE	7.6N	..	..	..	..	M	—— ——	—	—	4	90	15	88
	19—	12 28 01	BANG	04.8N	..	..	..	..	M	12 26	6	5	——	56	——	88
	2305	12 27 22	KGLN	57.3S	..	..	..	..	M	12 26	7	5	——	——	——	88
										12 27	5	5				88
12 26	0800	12 28 24	IRKU	40.8N	SC	− 0.4	+ 5	0	MS	12 26	8	6	24	92	27	88
										12 27	6	6				88

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

DECEMBER 1966

NORTH ATLANTIC, NORTH PACIFIC

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

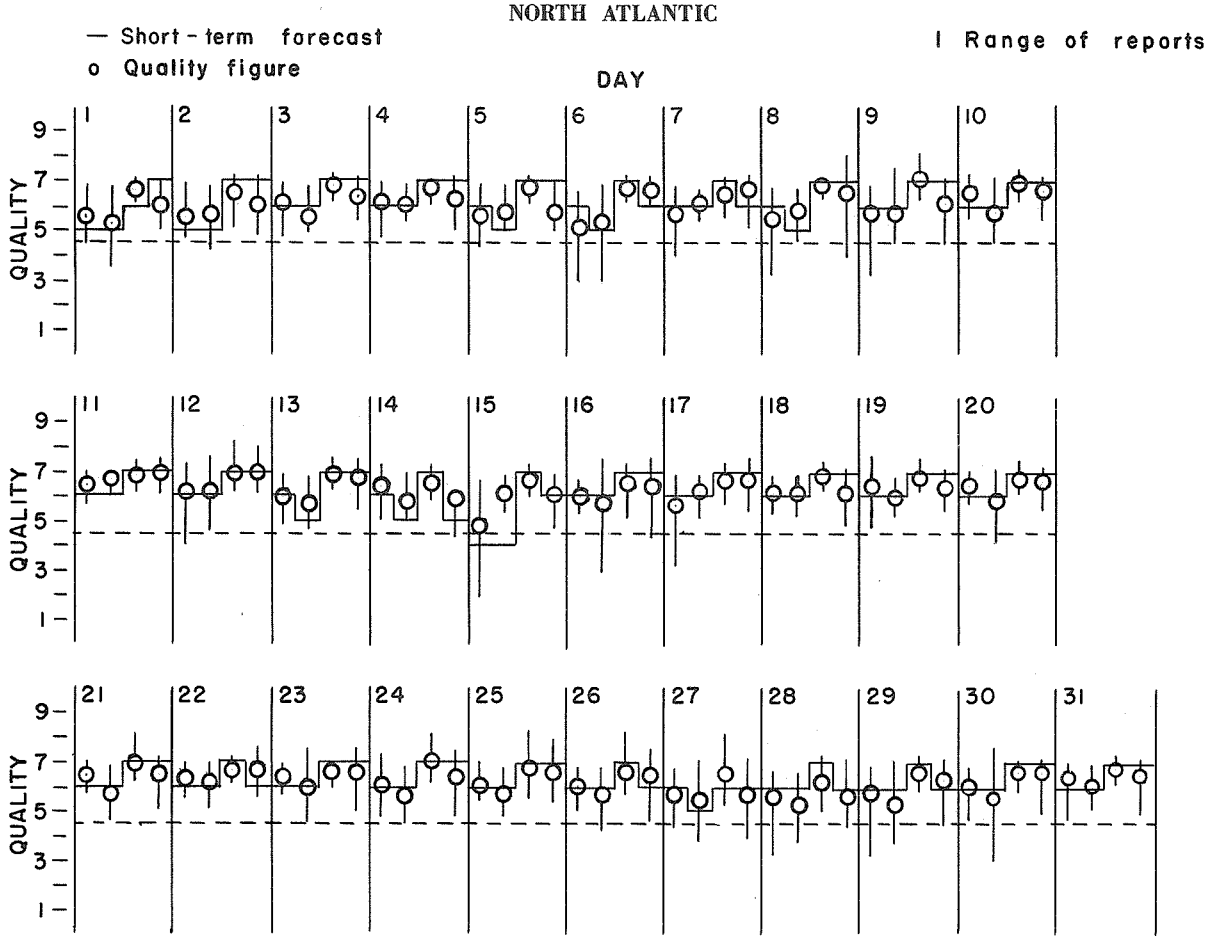
1) THE ADVANCE JC-FORECASTS ARE SCORED AGAINST THE AVERAGE HIGH LATITUDE WHOLE-DAY INDICES.

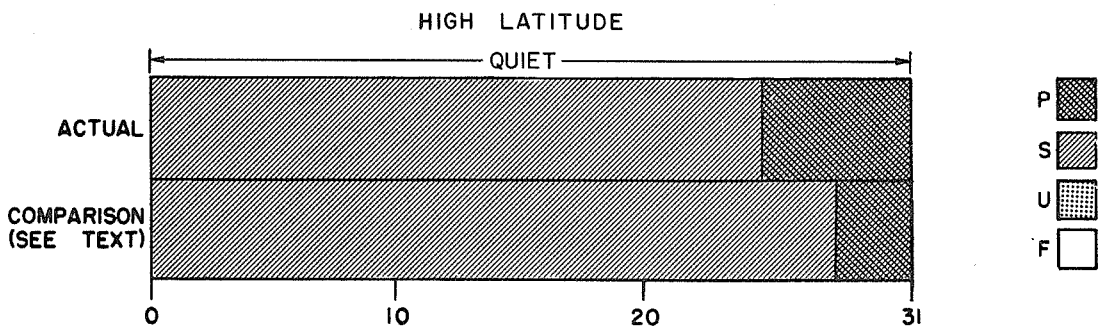
2) THE PREDICTED AFR INDICES ARE ISSUED EACH WEDNESDAY FOR THE COMING SEVEN DAYS. THE VALUE FOR THE FIRST DAY OF EACH PREDICTION PERIOD IS UNDERSCORED.

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

DECEMBER 1966

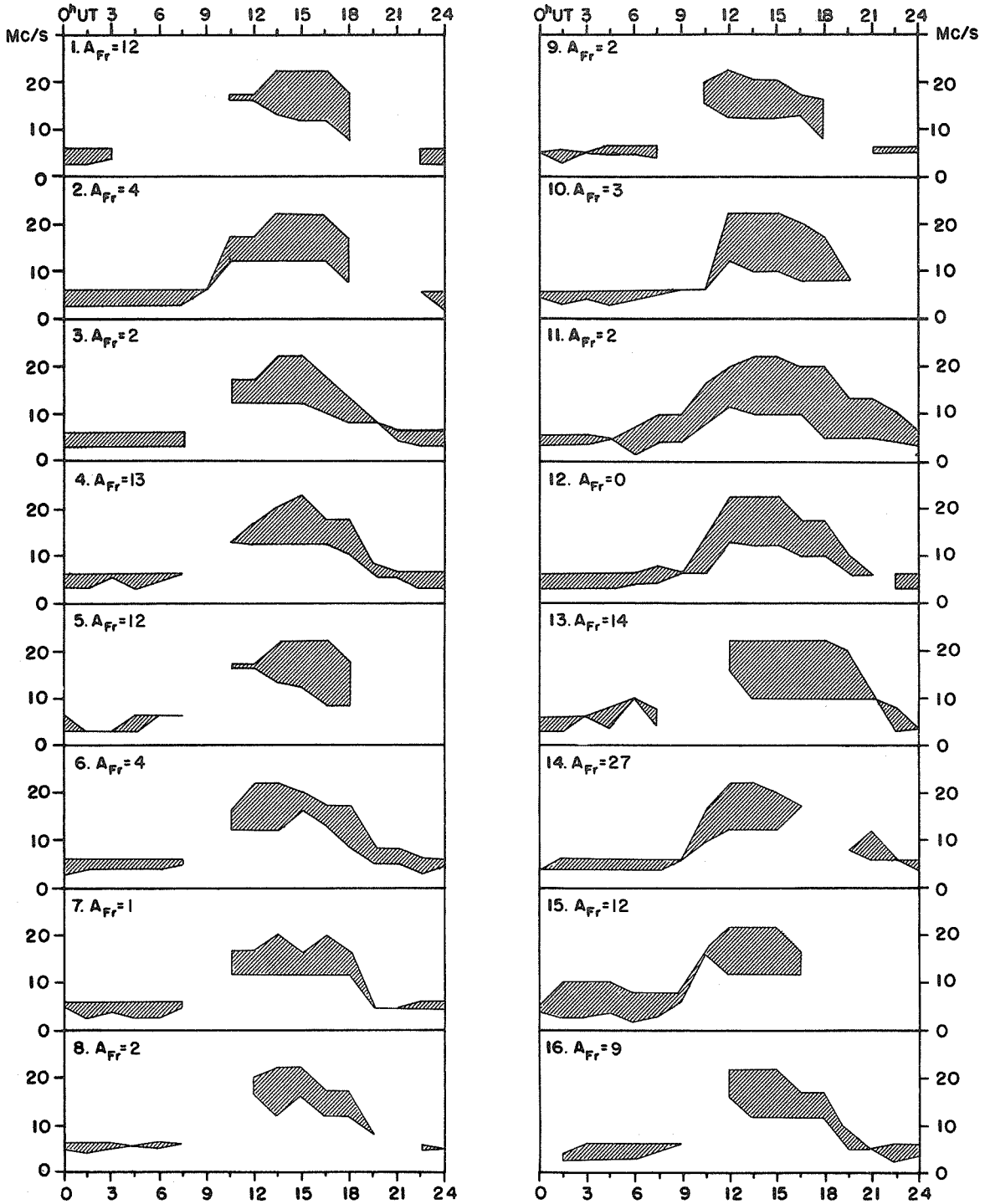
NORTH ATLANTIC





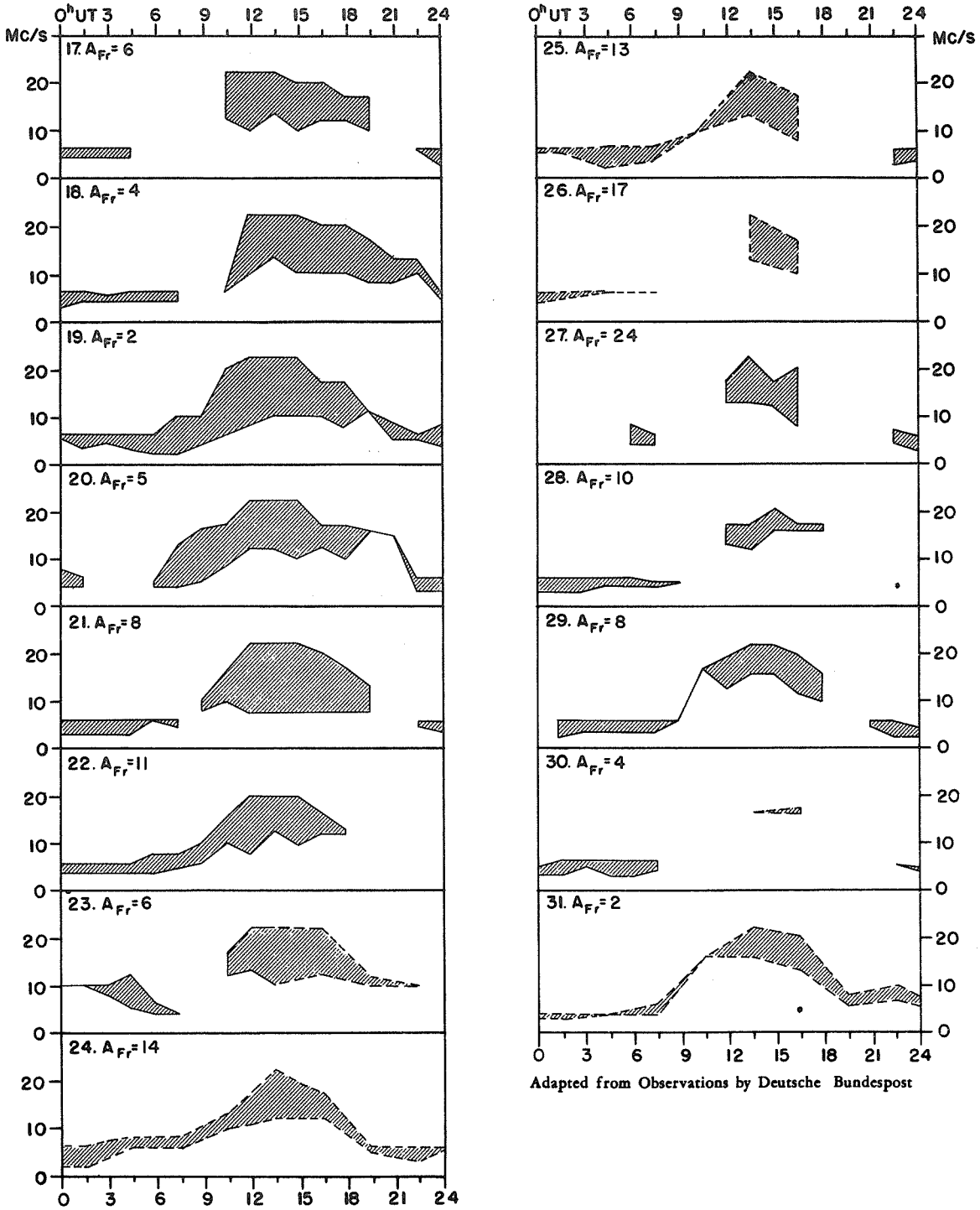
TRANSMISSION FREQUENCY RANGES--NORTH ATLANTIC PATH

DECEMBER 1966



TRANSMISSION FREQUENCY RANGES--NORTH ATLANTIC PATH

DECEMBER 1966



Adapted from Observations by Deutsche Bundespost

Table of Contents
for August 1967 Data

SOLAR FLARES
REVISED
AUGUST 1966

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. %	
1	01	0302	0317	0309	N34	E37	.699	8415	3.9	15	1-				.28				1 1 1
CULG	01	0302	0317	0309	N34	E37	.699	8415	3.9	15	-N		C	0309	.31	.47			CG
2	01	0848	0918		N25	E10	.366	8414	2.1	30	1-				.32				2 2 1
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
3	01	1118	1208	1135	N35	E34	.680	8415	4.0	50	1-				2.72				4 3 2
CAPS	01	1100	1155		N33	E33	.656	8415	3.9	55	1N	3		1134	1.80	2.30		175	
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
4	01	1103	1144	1106	N26	E29	.563	8415	3.6	41	1-				.33				1 1 1
ATHN	01	1103	1144	1106	N26	E29	.563	8415	3.6	41	-B	2		1106	.34	.70	1.80		
5	01	1644	1659	1652	N35	W19	.560	8413	31.3	15	1-				.16				1 1 1
SACP	01	1644	1659	1652	N35	W19	.560	8413	31.3	15	-F		C		.18	.18			
6	01	1810	1833	1821	N29	W02	.396	8413	1.6	23	1+				2.30				2 1 1
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			
7	01	2030	2045	2038	N33	W31	.638	8415	30.5	15	1-				.40				1 1 1
LOCK	01	2030	2045	2038	N33	W31	.638	8415	30.5	15	-F		C	2038	.40	.50		10	
8	01	2136	2150	2140	N25	E21	.467	8415	3.5	14	1-				.51				2 2 2
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			
9	02	0618	0654	0629	N26	E16	.427	8415	3.5	36	1-				1.21				3 3 3
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		
10	02	0724	0731	0725	N26	E14	.410	8415	3.4	7	1-				.70				1 1 1
ATHN	02	0724E	0731	0725	N26	E14	.410	8415	3.4	7D	-B	2		0725	.66	.70	2.00		
11	02	1459	1500		N24	W10	.351	8414	1.9	1	1-								1 1 0
UCCL	02	1459E	1500D		N24	W10	.351	8414	1.9	1D	-F		P						E
12	02	1502	1518	1504	N22	E15	.370	8415	3.8	16	1-				.20				1 1 1
CLMX	02	1502	1518	1504	N22	E15	.370	8415	3.8	16	-B		C	1504	.30	.32			
13	02	1525	1531	1526	N22	E15	.370	8415	3.8	6	1-				.20				1 1 1
CLMX	02	1525	1531	1526	N22	E15	.370	8415	3.8	6	-B		C	1526	.30	.32			
14	02	1545	1557	1542	N25	E10	.365	8415	3.4	12	1-				.41				4 2 2
UCCL	02	1535E	1558D		N25	E09	.359	8415	3.3	23D	-N		P	1542	.52	.60			D
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															
15	02	1645	1645		N27	E07	.378	8415	3.2		1-								1 1 0
UCCL	02	1645E	1645D		N27	E07	.378	8415	3.2		-N		P						E
16	02	1736	1813	1757	N26	E06	.358	8415	3.2	37	1-				.63				1 1 1
SACP	02	1736	1813D	1757	N26	E06	.358	8415	3.2	37D	-F		P		.70	.69			
17	02	1743	1756		N35	E20	.566	8415	4.2	13	1-				.36				1 1 1
MCMA	02	1743	1756		N35	E20	.566	8415	4.2	13	-B		C	1745	.26	.30			D
18	02	1815	1819		N26	E07	.362	8415	3.3	4	1-				.23				1 1 1
HUAN	02	1815	1819		N26	E07	.362	8415	3.3	4	-F	1	P	1817	.25	.25			D
	02	1850	1855	NO FLARE PATROL															
19	02	1917	1935	1925	N37	W30	.662	8413	31.6	18	1-				1.44				1 1 1
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															
20	02	2146	2205		N38	W32	.686	8413	31.5	19	1-				1.74				1 1 1
MCMA	02	2146	2205		N38	W32	.686	8413	31.5	19	-N		P	2155	1.24	1.70			FL
21	03	0357	0442	0401	N35	W51	.820	8413	30.3	45	1				2.58				1 1 1
HALE	03	0357	0442	0401	N35	W51	.820	8413	30.3	45	1F	1	C	0401	2.58	4.50			
22	03	0637	0709	0648	N20	E31	.548	8422	5.6	32	1				1.84				6 5 5
KAND	03	0630	0653		N19	E30	.530	8422	5.5	23	1N			0644	2.38	2.50			C
BUCA	03	0635E	0721D	0645	N20	E30	.535	8422	5.5	46D	-B		C	0645	1.10	1.30			EF
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	
23	03	1418	1523	1425	N32	W22	.548	8413	2.0	65	1				2.28				7 4 4
MCMA	03	1415	1605	1420	N30	W20	.509	8413	2.1	110	1B		C	1420	2.06	2.40			FKL
CAPS	03	1416	1506		N32	W22	.548	8414	1.9	50	1N	3		1425	2.50	2.90		170	FIJ
UCCL	03	1420E	1529D	1455	N33	W24	.575	8413	1.8	69D	2N		P	1455	3.63	7.00			EJJ
HUAN	03	1420	1505		N32	W22	.548	8414	1.9	45	1N	1	P	1425	1.91	1.90			E
ATHN	03	1428E	1509	1430	N35	W36	.696	8413	31.9	41D	-B	2		1430	.54	1.10	1.50		
WEND	03	1452	1458		N32	W20	.531	8413	2.1	6	1F	5			5.16				
LOCK	03	1517E	1540	1517E	N34	W23	.577	8413	1.9	23D	-F		C	1517	.70	.80		10	
24	03	1615	1628	1621	N21	E24	.465	8422	5.5	13	1-				.40				1 1 1
LOCK	03	1615	1628	1621	N21	E24	.465	8422	5.5	13	-F		C	1621	.40	.40		10	

SOLAR FLARES
REVISED
AUGUST 1966

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. %	
25	03	1634	1735	1653	N33	W23	.567	8413	2.0	61	1-				1.67				3 3 3
MCMA	03	1628	1735	1650	N33	W24	.575	8413	1.9	67	1N		C	1650	2.06	2.50			E
LOCK	03	1635	1745	1655	N33	W22	.558	8413	2.0	70	-F		C	1655	1.60	1.90		10	
HUAN	03	1640	1724		N32	W24	.565	8414	1.9	44	-F	1	C	1653	.50	.51			E
26	03	1710	1745	1725	N21	E24	.465	8422	5.5	35	1-				.82				1 1 1
LOCK	03	1710	1745	1725	N21	E24	.465	8422	5.5	35	-N		C	1725	.80	.90		10	
27	03	1946	2001	1951	N21	E22	.440	8422	5.5	15	1-				.36				2 2 2
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			
28	03	2034	2110	2042	N21	E25	.478	8422	5.7	36	1-				1.03				2 2 2
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
29	03	2214	2223	2216	N21	E22	.440	8422	5.6	9	1-				.86				3 3 3
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
30	04	0439	0511	0445	N20	E17	.369	8422	5.5	32	1-				1.37				4 3 3
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
31	04	0619	0655	0634	N26	W27	.539	8414	2.2	36	1-				1.25				4 4 4
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	
32	04	0645	1221	0706	N25	W58	.853	8427	30.9	336	1-				.80				2 2 2
KAND	04	0645	1221		N25	W58	.853	8427	30.9	336	1F			0700	1.73	2.50			C
BUCA	04	0647E	0746D	0706	N24	W58	.852	8427	30.9	59D	-F		C	0706	.56	1.00			
33	04	0815	0840		N24	E15	.392	8422	5.5	25	1-				.63				1 1 1
ARCE	04	0815	0840		N24	E15	.392	8422	5.5	25	-N		C	0820	.62	.67			H
34	04	0911	1206		N28	W31	.598	8414	2.1	175	1-								1 1 0
KAND	04	0911	1206		N28	W31	.598	8414	2.1	175	-N								C
35	04	1045	1135	1055	N19	E16	.347	8422	5.6	50	1-				1.02				4 3 2
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		
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
36	04	1320	1329	1320	N19	E14	.323	8422	5.6	9	1-				.28				1 1 1
ATHN	04	1320E	1329	1320	N19	E14	.323	8422	5.6	9D	-B	2		1320	.27	.30	2.00		
37	04	1522	1550	1530	N33	W31	.636	8414	2.3	28	1-				1.05				1 1 1
LOCK	04	1522	1550	1530	N33	W31	.636	8414	2.3	28	-N		C	1530	1.00	1.30		20	H
38	04	1554	1641	1615	N33	W33	.654	8414	2.2	47	1-				.81				3 3 3
HUAN	04	1553	1634		N32	W35	.666	8414	2.0	41	-F	1	C	1609	.37	.41			E
MCMA	04	1553	1700	1615	N33	W32	.645	8413	2.3	67	-N		C	1615	.83	1.10			E
LOCK	04	1555	1630	1615	N33	W33	.654	8414	2.2	35	-N		C	1615	.90	1.20		10	
39	04	1626	1633	1628	N23	W62	.882	8427	31.0	7	1-				.44				2 2 2
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
40	04	2048	2111	2059	N28	W37	.661	8414	2.1	23	1-				.87				1 1 1
MCMA	04	2048	2111	2059	N28	W37	.661	8414	2.1	23	-F		C	2059	.62	.80			F
41	04	2120	2158	2129	N29	W37	.667	8414	2.1	38	1-				1.29				2 2 2
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
42	04	2205	2221	2208	N27	W37	.656	8414	2.1	16	1-				1.44				1 1 1
MCMA	04	2205	2221	2208	N27	W37	.656	8414	2.1	16	-N		C	2208	1.03	1.40			FJ
43	05	0120	0214	0137	N27	W38	.666	8414	2.2	54	1-				.77				3 3 3
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	N28	W38	.671	8414	2.2	40	-F	2		0137	.67	.90			
44	05	0355	0424	0406	N27	W41	.698	8414	2.1	29	1-				1.14				2 2 2
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
45	05	0610	0720		N22	E03	.279	8422	5.5	70	1-				.64				1 1 1
BUCA	05	0610E	0720D		N22	E03	.279	8422	5.5	70D	-N		C	0705	.92	.90			
46	05	1051	1232		N19	E05	.239	8422	5.8	101	1-								1 1 0
KAND	05	1051	1232		N19	E05	.239	8422	5.8	101	-N								C
47	05	1150	1219	1206	N29	W45	.746	8414	2.1	29	1-				1.50				3 3 3
KAND	05	1125	1301		N28	W44	.732	8414	2.2	96	1N			1300	3.40	4.20			C
MCMA	05	1148	1220	1206	N30	W46	.759	8413	2.0	32	1N		C	1206	1.03	1.60			EK
HUAN	05	1152	1218		N30	W45	.750	8414	2.1	26	-N	1	P	1209	.37	.46			D

SOLAR FLARES

REVISED

AUGUST 1966

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. %	
48	05	1222	1251	1238	N32	W50	.802	8413	1.8	29	1-				2.30				5 5 4
KAND	05	1220	1252		N36	W51	.823	8413	1.7	32	1F								C
MCMA	05	1220	1246	1230	N32	W50	.802	8414	1.8	26	1N		C	1230	2.06	3.60			EK
HUAN	05	1226	1252	1244	N34	W55	.847	8413	1.4	26	-N	2	C	1244	.62	.88			E
ATHN	05	1229E	1355	1232	N27	W42	.708	8414	2.4	86D	1N	2		1232	3.30	4.70	1.70		
SACP	05	1239E	1252D	1245	N33	W53	.829	8413	1.6	13D	1N		P		1.87	2.56			
49	05	1305	1442	1326	N28	W46	.752	8414	2.1	97	1+				4.13				8 6 6
HUAN	05	1226	1446	1327	N27	W46	.748	8414	2.1	140	1N	2	C	1327	2.37	2.94			
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			1316	2.50	3.60		176	J
UCCL	05	1355E	1400D		N31	W45	.754	8414	2.2	5D	1N		P	1358	2.06				E
SACP	05	1445E	1515	1445E	N32	W46	.767	8414	2.2	30D	-N		C	1445	.70	1.10		10	
50	05	2222	2228	2224	N26	W50	.784	8414	2.2	6	1-				.24				2 2 2
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
51	06	0320	0429	0359	N23	W85	.993	8427	30.8	69	1-				.31				3 3 3
CULG	06	0316	0414D	0405	N25	W86	.994	8427	30.7	58D	-N		P	0405	.21				
MANI	06	0324	0408	0352	N24	W85	.992	8427	30.8	44	-B	2		0327	.21	.58			
TACH	06	0327E	0506D		N21	W85	.993	8427	30.8	99D	1N		V	0328	.73		2.10	63	D
52	06	0455	0550	0502	N22	W90	.999	8427	30.5	55	1				4.13				1 1 1
KIEV	06	0455E	0550D	0502	N22	W90	.999	8427	30.5	55D	1N		C	0502	4.13			70	A
53	06	0736	0822	0803	N25	W90	.999	8427	30.6	46	1-				.61				6 6 4
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			
54	06	0827	0915	0833	N25	W89	.998	8427	30.7	48	1+				1.11				2 2 2
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			
55	06	0830	0835	0835	N35	W90	.998	8413	30.6	5	1-				.52				1 1 1
CATA	06	0830E	0835D	0835	N35	W90	.998	8413	30.6	5D	-F			0835	.52			144	
56	06	1235	1254	1235	N24	W90	.999	8427	30.8	19	1-				.75				1 1 1
ATHN	06	1235E	1254	1235	N24	W90	.999	8427	30.8	19D	1N	2		1235	.66		1.80		
57	06	1640	1748	1656	N38	W33	.691	8415	4.2	68	1-				.64				2 2 2
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
58	06	1903	1935	1908	N21	W17	.378	8422	5.5	32	1-				1.93				5 4 4
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
59	06	2018	2023		N29	W65	.908	8414	2.0	5	1-				.79				1 1 1
MCMA	06	2018	2023		N29	W65	.908	8414	2.0	5	-N		C	2022	.52	1.20			D
60	06	2105	2157	2145	N37	W90	.998	8427	31.1	52	2-				1.59				1 1 1
LOCK	06	2105	2157	2145	N37	W90	.998	8427	31.1	52	2F		C	2145	1.70	5.80		10	H
61	07	0010	0108	0029	N34	W66	.918	8415	2.1	58	1				1.64				2 2 2
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
62	07	0103	0134	0110	N22	W18	.399	8422	5.7	31	1-				.83				2 2 2
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	
63	07	0901	0941		N26	W55	.829	8415	3.3	40	1-								1 1 0
KAND	07	0901	0941		N26	W55	.829	8415	3.3	40	-N								C
64	07	0908	0915		N21	W13	.333	8422	6.4	7	1-								1 1 0
KAND	07	0908	0915		N21	W13	.333	8422	6.4	7	-N								C
65	07	1538	1622	1548	N22	W77	.969	8414	1.9	44	1-				.97				3 3 2
LOCK	07	1532	1630		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		
MCMA	07	1543	1620	1547	N22	W80	.980	8414	1.7	37	-N		C	1603					EHK
66	07	1620	1640	1625	N25	W61	.876	8415	3.1	20	1-				.51				2 2 2
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
67	07	1802	1825	1812	N25	W60	.868	8415	3.3	23	1-				.40				1 1 1
LOCK	07	1802	1825	1812	N25	W60	.868	8415	3.3	23	-F		C	1812	.40	.80		10	
68	07	2000	2015	2005	N23	W30	.551	8422	5.6	15	1-				.50				1 1 1
LOCK	07	2000	2015	2005	N23	W30	.551	8422	5.6	15	-F		C	2005	.50	.60		10	
69	08	0120	0128	0123	N27	W84	.990	8414	1.8	8	1-				.41				1 1 1
HALE	08	0120	0128	0123	N27	W84	.990	8414	1.8	8	-N	1	C	0123	.41				

SOLAR FLARES

REVISED

AUGUST 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	— MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 AUG																		
70	08	0629	0639	0630	N25	W86	.994	8414	1.8	10	2-				.79				2 2 1
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
71	08	0804	0819		N23	W90	.999	8414	1.6	15	1-								1 1 0
ISTA	08	0804	0819		N23	W90	.999	8414	1.6	15	1								
72	08	1535	1544	1540	N27	W36	.643	8422	5.9	9	1-				.50				1 1 1
LOCK	08	1535	1544	1540	N27	W36	.643	8422	5.9	9	-F		C	1540	.50	.70		10	
73	08	1621	1637	1624	N26	W89	.998	8414	2.0	16	1-				.38				2 2 1
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				
74	08	1655	1722	1701	N22	W43	.699	8422	5.5	27	1-				1.08				4 4 4
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
75	08	1755	1807	1758	N28	W88	.997	8414	2.1	12	1-				.47				3 3 3
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
76	08	1805	1820	1810	N30	W68	.926	8414	3.7	15	1-				.38				1 1 1
LOCK	08	1805	1820	1810	N30	W68	.926	8414	3.7	15	-F		C	1810	.40	.90		10	
77	08	1846	1854	1850	N27	W77	.969	8414	3.0	8	1-				.17				1 1 1
LOCK	08	1846	1854	1850	N27	W77	.969	8414	3.0	8	-F		C	1850	.20	.60		10	
78	08	1900	1913	1905	N30	W85	.992	8414	2.4	13	1-				.16				1 1 1
LOCK	08	1900	1913	1905	N30	W85	.992	8414	2.4	13	-F		C	1905	.20	.70		10	
79	08	2347	0012	2351	N31	W90	.998	8414	2.2	25	1-				.25				1 1 1
LOCK	08	2347	0012	2351	N31	W90	.998	8414	2.2	25	-F		C	2351	.30	1.20		10	L
80	09	0116	0140	0121	S26	E34	.721	8421	11.6	24	1-				.61				1 1 1
LOCK	09	0116	0140	0121	S26	E34	.721	8421	11.6	24	-F		C	0121	.60	.80		10	
81	09	1228	1301	1230	N27	W90	.999	8415	2.8	33	1-				.14				2 2 1
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
82	09	1358	1400		N34	E90	.998	8438	16.3	2									1 0 0
KAND	09	1358	1400		N34	E90	.998	8438	16.3	2									C
83	09	1659	1711	1702	N23	W57	.841	8422	5.4	12	1-				.36				2 2 2
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	
84	10	0700	0835		N26	W90	.999	8422	3.5	95									1 0 0
KAND	10	0700	0835		N26	W90	.999	8422	3.5	95									C
85	10	1231	1236	1233	N23	W68	.923	8422	5.4	5	1-				.19				1 1 1
HUAN	10	1231	1236	1233	N23	W68	.923	8422	5.4	5	-F	2	C	1233	.25				D
86	10	1322	1405		N40	E90	.997	8438	17.3	43	1-								1 1 0
KAND	10	1322	1405		N40	E90	.997	8438	17.3	43	-N								C
87	10	1958	2027	2009	N21	E01	.253	8421	10.9	29	1-				.19				1 1 1
LOCK	10	1958	2027	2009	N21	E01	.253	8421	10.9	29	-F		C	2009	.20	.20		10	
	11	0145	0205	NO FLARE PATROL															
88	11	0603	0623		N32	E51	.808	8435	15.1	20	1-				1.24				1 1 1
WEND	11	0603	0623		N32	E51	.808	8435	15.1	20	1N	3			3.09				
89	11	1522	1535	1528	N21	W08	.284	8421	11.0	13	1-				.19				1 1 1
LOCK	11	1522	1535	1528	N21	W08	.284	8421	11.0	13	-F		C	1528	.20	.20		10	
90	11	1635	1749		N34	E48	.789	8435	15.3	74	1-								1 1 0
UCCL	11	1635	1749D		N34	E48	.789	8435	15.3	74D	-N		P						E
91	11	1812	1815		N35	E46	.777	8435	15.2	3	1-				.74				1 1 1
MCMA	11	1812	1815		N35	E46	.777	8435	15.2	3	-N		P	1812	.52	.80			D
92	11	2038	2100	2045	S21	W01	.461	8429	11.8	22	1-				.50				1 1 1
LOCK	11	2038	2100	2045	S21	W01	.461	8429	11.8	22	-N		C	2045	.50	.60		10	
93	12	0800	0905		N34	E36	.684	8435	15.0	65	1-				.82				1 1 1
ARCE	12	0800	0905		N34	E36	.684	8435	15.0	65	-N		C	0815	.81	1.12			H
94	12	0920	1003		N31	E37	.675	8435	15.2	43	1-				.65				2 2 1
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
95	12	1520	1526	1525	N33	E36	.677	8435	15.3	6	1-				.36				1 1 1
UCCL	12	1520E	1526	1525	N33	E36	.677	8435	15.3	6D	-N		P	1525	.52	1.00			D
96	13	0852	0957	0856	N33	E20	.535	8435	14.9	65	1-				.22				1 1 1
UCCL	13	0852	0957	0856	N33	E20	.535	8435	14.9	65	-N		C	0856	.31	.50			DH
97	13	1026	1029	1027	N33	E26	.585	8435	15.4	3	1-								1 1 0
UCCL	13	1026	1029	1027	N33	E26	.585	8435	15.4	3	-F		C	1027					E
98	13	1456	1508		S23	W21	.587	8429	12.0	12	1-				.19				1 1 1
HUAN	13	1456	1508		S23	W21	.587	8429	12.0	12	-F	1	C	1501	.21	.22			D
99	13	1628	1630	1630	N33	E17	.512	8435	15.0	2	1-				.21				1 1 1
HALE	13	1628	1630D	1630U	N33	E17	.512	8435	15.0	2D	-N	1	P	1630	.21	.20			

SOLAR FLARES

REVISED

AUGUST 1966

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. %	
100	13	2119	2132	2122	N35	E17	.537	8435	15.2	13	1-				.34				2 2 2
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
101	14	0800	0830		N34	E14	.505	8435	15.4	30	1-				1.93				1 1 1
ARCE	14	0800	0830		N34	E14	.505	8435	15.4	30	1N		C	0800	1.73	2.00			H
102	14	0906	1130		S22	W29	.647	8429	12.2	144	1-				1.62				2 2 1
KAND	14	0906	1130		S23	W29	.656	8429	12.2	144	1N			1046	2.21	2.50			C
UCCL	14	1100E	1104D		S21	W28	.629	8429	12.4	4D	-N		P						D
103	14	0911	1030		N33	E14	.492	8435	15.4	79	1-				1.95				2 2 2
KAND	14	0906	1130		N32	E13	.472	8435	15.4	144	1F			1046	2.43	2.50			C
ARCE	14	0916	0930		N34	E14	.505	8435	15.4	14	1N		C	0925	1.76	2.04			
104	14	0947	1106	1029	S29	E30	.717	8441	16.7	79	1				1.19				4 4 3
KAND	14	0906	1130		S29	E33	.740	8441	16.9	144	1B			1046	2.62	3.20			C
CAPS	14	1027	1041		S29	E25	.681	8441	16.3	14	-N	3		1033	.60	.80		165	C
UCCL	14	1029E	1040D	1029	S30	E30	.726	8441	16.7	11D	1B		P	1029	1.56	3.70			E
KHAR	14	1029E	1045D		S28	E33	.732	8441	16.9	16D	1F		V	1029			1.80		DO
105	14	1519	1542		S29	E32	.732	8441	17.0	23	1-				.23				1 1 1
HUAN	14	1519	1542		S29	E32	.732	8441	17.0	23	-F	2	C	1523	.25	.30			D
106	14	1627	1640	1632	S29	E32	.732	8441	17.1	13	1-				.28				1 1 1
HUAN	14	1627	1640	1632	S29	E32	.732	8441	17.1	13	-F	2	C	1632	.31	.38			
107	14	1659	1718	1702	S28	E26	.679	8441	16.7	19	1-				.53				2 2 2
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			
108	14	2315	2342	2323	S22	W43	.776	8429	11.7	27	1-				.50				1 1 1
LOCK	14	2315	2342	2323	S22	W43	.776	8429	11.7	27	-F		C	2323	.50	.80		10	
109	14	2354	0003	2359	S29	E20	.649	8441	16.5	9	1-				.34				2 2 2
CULG	14	2353	0000D	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	
110	15	0213	0220		N23	E20	.427	8438	16.6	7	1-				.18				1 1 1
MANI	15	0213	0220		N23	E20	.427	8438	16.6	7	-F	2		0214	.26	.27			
111	15	0434	0439	0435	S27	E15	.597	8441	16.3	5	1-				.21				1 1 1
HALE	15	0434	0439	0435	S27	E15	.597	8441	16.3	5	-F	1	C	0435	.21	.30			
112	15	0645	0714		S22	W45	.794	8429	11.9	29	1-								1 1 0
KAND	15	0645	0714		S22	W45	.794	8429	11.9	29	-N								P
113	15	1511	1528	1517	N33	E46	.767	8440	19.1	17	1-				.73				2 2 2
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
114	15	1832	1848	1835	S22	W50	.836	8434	12.0	16	1-				.22				1 1 1
HUAN	15	1832	1848	1835	S22	W50	.836	8434	12.0	16	-F	2	C	1835	.25	.35			D
115	15	1950	2004	1953	S22	W51	.844	8434	12.0	14	1-				.18				1 1 1
HUAN	15	1950	2004	1953	S22	W51	.844	8434	12.0	14	-F	2	C	1953	.21	.29			D
116	15	2013	2056		S22	W51	.844	8434	12.0	43	1-				.36				1 1 1
HUAN	15	2013	2056		S22	W51	.844	8434	12.0	43	-F	1	C	2033	.43	.62			
117	16	0230	0235		N31	W18	.494	8435	14.8	5	1-				.15				1 1 1
MANI	16	0230	0235		N31	W18	.494	8435	14.8	5	-F	2		0231	.21	.23			
118	16	0450	0502	0450	N28	W20	.477	8435	14.7	12	1-				.60				1 1 1
ATHN	16	0450E	0502	0450	N28	W20	.477	8435	14.7	12D	-F	2		0450	.58	.70	1.20		
119	16	0601	0612	0603	N28	E35	.634	8440	18.9	11	1-				.50				1 1 1
ATHN	16	0601	0612	0603	N28	E35	.634	8440	18.9	11	-N	2		0603	.50	.70	1.50		
120	16	0650	0658	0652	N32	W21	.530	8435	14.7	8	1-				.42				2 2 2
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
121	16	0753	0820	0810	S21	W59	.900	8429	11.9	27	1-				1.01				4 4 3
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				
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	
122	16	0809	0834	0816	N29	E33	.620	8440	18.8	25	1-				.73				2 2 2
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		
123	16	0805	0820		S07	W67	.929	8429	11.3	15	1-								1 1 0
ISTA	16	0805	0820		S07	W67	.929	8429	11.3	15	-								
124	16	0910	0953		N17	E90	.999	8443	23.1	43	1-								1 1 0
KAND	16	0910	0953		N17	E90	.999	8443	23.1	43	-N								C
125	16	0933	0958	0932	N27	E32	.596	8440	18.8	25	1-				.15				3 2 1
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		
126	16	1101	1115		N18	E90	.999	8443	23.2	14	1-								1 1 0
MEUD	16	1101	1115		N18	E90	.999	8443	23.2	14	-F								
127	16	1119	1137	1126	S23	W61	.917	8429	11.9	18	1-				.46				3 2 2
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

SOLAR FLARES

REVISED

AUGUST 1966

OBSERV-ATORY	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. %	
128	16	1335	1410		N23	W02	.283	8438	16.4	35	1-				1.44				1 1 1
MCMA	16	1335	1410		N23	W02	.283	8438	16.4	35	-N		C	1354	1.03	1.00			E
129	16	1546	1632	1600	N26	E91	.999	8443	23.5	46	1				1.14				3 3 2
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	1.000	8443	23.6	21	-N		C		.85				
130	16	1757	1813	1755	N25	E02	.316	8438	16.9	16	1-				.29				2 1 1
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
131	16	2021	2111	2036	N23	W04	.288	8438	16.5	50	1-				.92				2 2 2
MCMA	16	2017	2122	2036	N23	W04	.288	8438	16.5	65	-N		C	2036	1.03	1.00			FL
LOCK	16	2025	2100	2035	N22	W04	.272	8438	16.6	35	-F		C	2035	.40	.40		10	
132	16	2025	2040	2030	S20	W46	.794	8429	13.4	15	1-				.29				1 1 1
LOCK	16	2025	2040	2030	S20	W46	.794	8429	13.4	15	-F		C	2030	.30	.80		10	H
133	16	2124	2132	2126	S21	W65	.937	8429	12.0	8	1				.82				3 3 3
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				
134	16	2230	2300	2237	N14	W05	.153	8438	16.6	30	1-				.40				1 1 1
LOCK	16	2230	2300	2237	N14	W05	.153	8438	16.6	30	-F		C	2237	.40	.40		10	
135	16	2246	2257	2249	N27	W04	.353	8438	16.6	11	1-				.21				1 1 1
MANI	16	2246	2257	2249	N27	W04	.353	8438	16.6	11	-F	2		2249	.31	.33			
136	16	2303	2340	2301	N25	E84	.990	8442	23.3	37	1-				.38				2 1 1
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	
137	16	2334	2343	2337	N19	E82	.986	8443	23.1	9	1-				.06				1 1 1
MANI	16	2334	2343	2337	N19	E82	.986	8443	23.1	9	-N	2		2337	.10	.27			
138	17	0022	0029	0025	N22	E80	.979	8443	23.0	7	1-				.08				1 1 1
LOCK	17	0022	0029	0025	N22	E80	.979	8443	23.0	7	-F		C	0025	.10	.30		10	H
139	17	0030	0045	0034	S22	W67	.949	8429	12.0	15	1+				1.18				3 3 3
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				
140	17	0447	0501	0455	N20	E78	.972	8443	23.0	14	1-				.43				3 3 3
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			
141	17	0548	0602	0550	N20	E76	.964	8443	22.9	14	1-				.46				1 1 1
ATHN	17	0548	0602	0550	N20	E76	.964	8443	22.9	14	-F	2		0550	.41		1.30		
142	17	0800	0814		N27	E18	.447	8440	18.7	14	1-								1 1 0
KAND	17	0800	0814		N27	E18	.447	8440	18.7	14	-F								C
143	17	0927	1051	0946	N23	W11	.332	8438	16.6	84	1+				6.02				11 10 8
KAND	17	0900	1130		N20	W15	.337	8438	16.3	150	2N			0953	10.49	10.40			C
UCCL	17	0900	1100	0950	N25	W10	.352	8438	16.6	120	2N		C	0950	8.82	10.20			E
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
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
144	17	1117	1150		N17	E85	.993	8447	23.8	33					.72				1 0 1
UCCL	17	1117	1150		N17	E85	.993	8447	23.8	33			C	1132	1.03				D
145	17	1123	1134	1129	S27	W05	.560	8441	17.1	11	1-				.32				3 3 1
KAND	17	1120	1130		S25	W03	.528	8441	17.2	10	-N								P
UCCL	17	1122	1134	1129	S27	W10	.575	8441	16.7	12	-N		C						E
ATHN	17	1127	1137	1128	S30	W01	.598	8441	17.4	10	-N	2		1128	.33	.70	1.30		
146	17	2120	2210	2140	N27	E90	.999	8442	24.6	50	1-				.89				1 1 1
LOCK	17	2120	2210	2140	N27	E90	.999	8442	24.6	50	1F		C	2140	1.00	2.70		10	
147	18	0020	0028	0026	S21	E70	.961	8452	23.3	8	1-				.21				1 1 1
HALE	18	0020	0028	0026	S21	E70	.961	8452	23.3	8	-F	1	C	0026	.21				
148	18	0126	0155	0140	N26	W16	.415	8438	16.9	29	1-				.31				1 1 1
HALE	18	0126	0155	0140	N26	W16	.415	8438	16.9	29	-F	1	C	0140	.31	.30			D
149	18	0139	0234	0147	N20	E67	.914	8443	23.1	55	1-				.65				2 2 2
MITK	18	0134	0235	0147	N20	E67	.914	8443	23.1	61	1F		C	0147	.83				
HALE	18	0143	0233	0207	N20	E66	.908	8443	23.0	50	-B	1	C	0207	.72				E
150	18	0609	0621	0611	N29	E07	.394	8444	18.8	12	1-				.18				1 1 1
MANI	18	0609	0621	0611	N29	E07	.394	8444	18.8	12	-F	2		0611	.26	.29			
151	18	1124	1139		N23	W30	.546	8438	16.2	15	1-								1 1 0
UCCL	18	1124E	1139D		N23	W30	.546	8438	16.2	15D	-N		P						E
152	18	1730	1815	1750	S13	E64	.918	8452	23.5	45	1-				.28				1 1 1
LOCK	18	1730	1815	1750	S13	E64	.918	8452	23.5	45	-F		C	1750	.30	.70		10	

SOLAR FLARES

REVISED
AUGUST 1966

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. %	
153	18	1818	1852	1825	N22	W33	.578	8438	16.3	34	1-				1.09				3 3 3
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	
154	18	1922	1937		N38	W20	.589	8438	17.3	15	1-				.27				1 1 1
CLMX	18	1922E	1937		N38	W20	.589	8438	17.3	15D	-N		C	1925	.40	.44			
155	18	2051	2123	2100	N19	E58	.844	8443	23.2	32	1				1.08				5 4 4
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	2058U	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
156	19	0007	0043	0018	N30	E14	.449	8444	20.1	36	1-				.30				2 2 2
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			
157	19	0053	0112	0109	N10	E67	.915	8454	24.1	19	1-				.44				3 3 3
HALE	19	0035	0100	0040	N04	E67	.919	8454	24.0	25	-F	2	C	0040	.21				
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			
158	19	0045	0049	0046	N16	E66	.907	8447	24.0	4	1-				.26				1 1 1
HALE	19	0045	0049	0046	N16	E66	.907	8447	24.0	4	-F	2	C	0046	.26				
159	19	0108	0120	0109	N17	E71	.939	8447	24.4	12	1-				.52				1 1 1
HALE	19	0108	0120	0109	N17	E71	.939	8447	24.4	12	-N	2	C	0109	.52				E
160	19	0433	0448	0437	N23	W40	.665	8438	16.2	15	1				1.93				4 4 4
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	0445U	0438	N23	W39	.654	8438	16.3	9D	1B	3	C	0438	1.86	2.40			
MANI	19	0437	0455		N22	W46	.662	8438	16.2	18	1B	1		0440	2.06	2.82			
161	19	0430	0436	0431	N18	E73	.950	8447	24.7	6	1+				.62				1 1 1
HALE	19	0430	0436	0431	N18	E73	.950	8447	24.7	6	1B	2	C	0431	.62				E
162	19	0750	1037	0902	N34	W54	.835	8435	15.3	167	1-				1.05				4 4 4
BUCA	19	0710E	0755U		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	1.75	2.60			C
CAPS	19	0900	1017		N34	W54	.835	8435	15.3	77	1F	3		1012	2.00	3.60		153	I
ATHN	19	0901E	0909	0902	N33	W50	.800	8435	15.6	8D	-N	2		0902	.50	.70			
163	19	1126	1141		N27	W09	.373	8440	18.8	15	1-				.49				3 3 2
UCCL	19	1124	1138		N30	W07	.408	8440	19.0	14	-N		C	1125	1.03	1.30			EJ
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
164	19	1151	1211		N26	W41	.688	8438	16.4	20	1-								1 1 0
KAND	19	1151	1211		N26	W41	.688	8438	16.4	20	-F								C
165	19	1152	1209		S26	W32	.709	8441	17.1	17	1-								1 1 0
KAND	19	1152	1209		S26	W32	.709	8441	17.1	17	-F								C
166	19	1523	1527	1524	N19	W39	.640	8438	16.7	4	1-				.86				1 1 1
ATHN	19	1523	1527	1524	N19	W39	.640	8438	16.7	4	-N	2		1524	.83	1.00			
167	19	1610	1630	1615	N31	W50	.794	8438	15.9	20	1-				.40				1 1 1
LOCK	19	1610	1630	1615	N31	W50	.794	8438	15.9	20	-N		C	1615	.40	.70		10	
168	19	1650	1710	1655	N33	W60	.877	8438	15.2	20	1-				.50				1 1 1
LOCK	19	1650	1710	1655	N33	W60	.877	8438	15.2	20	-N		C	1655	.50	1.00		10	
169	19	2147	2157	2150	N23	W50	.773	8438	16.2	10	1-				.53				3 3 3
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			
170	20	0022	0038	0025	N33	W57	.855	8435	15.7	16	1-				.36				2 1 1
HALE	20	0016	0038	0025	N32	W54	.830	8435	16.0	22	-N	1	C	0025	.36	.60			
IKOM	20	0028	0033U		N34	W60	.878	8435	15.5	5D	-F		V	0028	.52	1.10			D
171	20	1906	1940	1909	N18	E33	.560	8447	23.3	34	1-				.98				2 2 2
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
172	20	2038	2049	2040	N34	W81	.981	8435	14.8	11	1-				.26				1 1 1
HALE	20	2038	2049	2040	N34	W81	.981	8435	14.8	11	-N	1	C	2040	.26				
173	21	0205	0230	0216	N35	W81	.981	8435	15.0	25	1-				.31				1 1 1
HALE	21	0205	0230	0216	N35	W81	.981	8435	15.0	25	-N	2	C	0216	.31				KJT
174	21	0250	0303	0256	N34	W81	.981	8435	15.0	13	1-				.31				1 1 1
HALE	21	0250	0303	0256	N34	W81	.981	8435	15.0	13	-N	2	C	0256	.31				JT
175	21	0614	0626	0616	N32	W78	.971	8435	15.4	12	1-				.08				1 1 1
MANI	21	0614	0626	0616	N32	W78	.971	8435	15.4	12	-F	1		0616	.15	.39			
176	21	0933	0948	0934	N20	W68	.921	8438	16.3	15	1				.97				4 2 2
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		
UCCL	21	0936E	0950D		N23	W68	.921	8438	16.3	14D			P						E
CAPS	21	0937	0954		N17	W69	.927	8438	16.2	17	-N	3		0947	.70			170	C
177	21	1553	1610	1601	N35	W90	.998	8435	14.9	17	1-				.51				1 1 1
LOCK	21	1553	1610	1601	N35	W90	.998	8435	14.9	17	1F		C	1601	.60	2.40		10	

SOLAR FLARES

REVISED

AUGUST 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	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. %	
178	21	1615	1640	1618	N35	W85	.990	8435	15.3	25	1+				.52				1 1 1
HALE	21	1615E	1640	1618	N35	W85	.990	8435	15.3	25D	1B	2	P	1618	.52				KJT
179	21	1650	1701	1655	N35	W85	.990	8435	15.3	11	1-				.31				1 1 1
HALE	21	1650	1701	1655	N35	W85	.990	8435	15.3	11	-N	2	C	1655	.31				JT
180	21	1718	1740	1725	N24	E80	.978	8459	27.7	22	1-				.41				1 1 1
HALE	21	1718E	1740D	1725	N24	E80	.978	8459	27.7	22D	-N	3	P	1725	.41				
181	21	2319	2337	2325	N34	W88	.995	8435	15.4	18	1-				.33				2 1 1
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
182	22	0403	0435	0416	N23	E90	.999	8461	28.9	32	1				1.64				1 1 1
TACH	22	0403	0435	0416	N23	E90	.999	8461	28.9	32	1F		C	0416	2.00		3.20	54	
183	22	0534	0543	0536	N21	E90	.999	8461	29.0	9	1-				.08				1 1 1
MANI	22	0534	0543	0536	N21	E90	.999	8461	29.0	9	-N	2		0536	.15	.50			
184	22	0612	0620	0616	N23	E77	.968	8461	28.0	8	1-				.38				1 1 1
MANI	22	0612	0620	0616	N23	E77	.968	8461	28.0	8	-F	2		0616	.62	1.50			
185	22	0658	0708		N20	W85	.992	8438	15.9	10	1-				.32				1 1 1
BUCA	22	0658E	0708D		N20	W85	.992	8438	15.9	10D	-N		C		.45				G
186	22	0718	0750		N42	E56	.870	8457	26.5	32	1-				.78				1 1 1
BUCA	22	0718E	0750D		N42	E56	.870	8457	26.5	32D	1F		C	0724	1.12	2.30			
187	22	0735	0743		N24	W90	.999	8438	15.6	8	1-								1 1 0
KAND	22	0735	0743		N24	W90	.999	8438	15.6	8	-B								C
188	22	0752	0820		N23	E90	.999	8461	29.1	28	1-				.39				1 1 1
BUCA	22	0752E	0820D		N23	E90	.999	8461	29.1	28D	1F		C	0755	.56				
189	22	1018	1050		N32	E84	.988	8460	28.7	32	1-								1 1 0
KAND	22	1018	1050		N32	E84	.988	8460	28.7	32	-N								P
190	22	1417	1432	1417	N23	E72	.944	8459	28.0	15	1-				.35				2 1 1
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
191	22	2126	2224	2145	N28	E59	.861	8459	27.3	58	1				1.62				5 5 5
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
192	22	2258	2328	2307	N39	E49	.813	8457	26.6	30	1				1.51				2 2 2
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
193	22	2330	2358	2344	N24	E65	.902	8459	27.9	28	1-				.72				1 1 1
MITK	22	2330E	2358	2344	N24	E65	.902	8459	27.9	28D	1F		C	2344	1.03	2.40			
194	23	0036	0117		N23	E65	.901	8459	27.9	41	1-				1.18				1 1 1
MITK	23	0036E	0117D		N23	E65	.901	8459	27.9	41D	1F		C	0048	1.65	3.80			E
195	23	0611	0831	0628	N22	E62	.879	8459	27.9	140	1-				1.64				10 7 7
ATHN	23	0451E	0630	0451	N22	E66	.908	8459	28.2	99D	-B	2		0451	.66		1.90		
CULG	23	0511	0647D	0628	N24	E64	.895	8459	28.0	96D	-N		P	0628	.72	1.75			
ABST	23	0608	0738	0625	N23	E62	.879	8459	27.9	90	1		C	0625	2.25			85	OJK
CATA	23	0615E	0840D	0800	N24	E62	.880	8459	27.9	145D	-B			0800	.72	1.50		164	
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	3.31	5.00			C
ISTA	23	0720	0825		N17	E62	.877	8459	28.0	65	1								
BUCA	23	0812E	0900D		N24	E57	.840	8459	27.6	48D	1F		C	0831	1.12	2.10			
196	23	0655	1229	0700	N06	E12	.207	8454	24.2	334	1-				1.24				4 2 2
KAND	23	0655	1229		N06	E13	.224	8454	24.3	334	1N			0914	2.54	2.50			C
CATA	23	0659E	0710D	0700	N06	E12	.207	8454	24.2	11D	-F			0700	.44	.46		148	
BUCA	23	0824E	1030D		N08	E10	.173	8454	24.1	126D	1N		C	1020	2.25	2.30			
KHAR	23	0855E	0940D		N05	E12	.210	8454	24.3	45D	1F		V	0905	2.27	2.40	2.60		DHO
197	23	0900	0943		N23	E59	.855	8459	27.8	43	1				.91				2 2 2
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			
198	23	0952	1153	1004	N22	E67	.914	8461	28.4	121	1				1.70				5 4 4
KAND	23	0950	1220		N20	E72	.944	8461	28.8	150	1B			1002	2.28	4.40			C
BUCA	23	0951E	1054D		N22	E68	.921	8461	28.5	63D	1F		C	1007	1.68				
CAPS	23	0954	1130		N24	E62	.880	8459	28.1	96	2N	2		1100	2.50			215	FIJ
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	E64	.894	8459	28.2	54D	1N			1030	2.22			146	
199	23	1308	1320	1310	N24	E61	.872	8459	28.1	12	1-				.58				4 4 4
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
200	23	1623	1636	1631	N27	E52	.800	8459	27.6	13	1-				.21				1 1 1
HALE	23	1623E	1636D	1631	N27	E52	.800	8459	27.6	13D	-N	1	P	1631	.21	.30			

SOLAR FLARES

REVISED

AUGUST 1966

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. %	
201	23	1749	1801		N24	E59	.856	8459	28.2	12	1-				.40				2 2 2
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
202	23	2234	2247	2237	N22	E51	.781	8459	27.8	13	1-				.34				1 1 1
MANI	23	2234	2247	2237	N22	E51	.781	8459	27.8	13	-N	2		2237	.50	.79			
203	24	0333	0333		N20	E60	.861	8461	28.6		1-				.65				1 1 1
MITK	24	0333E	0333D		N20	E60	.861	8461	28.6		-F		P	0333	.93	1.80			D
204	24	0530	0535		N20	E60	.861	8461	28.7	5	1-				.13				1 1 1
MANI	24	0530	0535		N20	E60	.861	8461	28.7	5	-N	2		0531	.21	.38			
205	24	0732	0801	0743	N22	E51	.781	8461	28.1	29	1-				.67				1 1 1
ATHN	24	0732	0801	0743	N22	E51	.781	8461	28.1	29	-N	2		0743	.66	1.20	1.40		
206	24	0810	1124	0823	N26	E90	.999	8467	31.1	194	1+				.66				3 3 2
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
207	24	0838	1002	0846	N23	E53	.802	8461	28.3	84	1				1.34				4 2 1
ARCE	24	0823	0847	0846	N23	E50	.773	8461	28.1	24	1N		C	0846	1.34	2.18			
ONDR	24	0843	0852		N24	E53	.804	8461	28.3	9	1N		V	0843			2.10		H
UCCL	24	0846E	0847D		N23	E54	.811	8461	28.4	1D			P						E
KAND	24	0847	1226		N22	E53	.800	8461	28.3	219	-N								P
208	24	0915	1205		N06	W04	.071	8454	24.1	170	1-				2.48				2 2 2
KAND	24	0910	1415		N07	W01	.017	8454	24.3	305	1N			0957	4.61	4.60			P
ARCE	24	0920	0955		N05	W07	.126	8454	23.9	35	-F		C	0950	.72	.72			H
209	24	1010	1035		N39	E20	.598	8457	25.9	25	1-								1 1 0
KAND	24	1010	1035		N39	E20	.598	8457	25.9	25	-N								P
210	24	1219	1406	1253	N25	E59	.857	8461	28.9	107	1-				.46				3 2 1
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	1306	.31	.60			DHK
CAPS	24	1308	1344		N26	E61	.874	8461	29.1	36	-F	3		1312	.70	1.40		157	JD
211	24	1345	1410		N19	W24	.442	8447	22.8	25	1-								1 1 0
KAND	24	1345	1410		N19	W24	.442	8447	22.8	25	-F								P
212	24	1425	1431		N08	W09	.156	8447	23.9	6	1-				.23				1 1 1
HUAN	24	1425	1431		N08	W09	.156	8447	23.9	6	-F	1	P	1428	.25	.25			D
213	24	1434	1450	1438	N25	E59	.857	8461	29.0	16	1-				.48				3 3 3
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
214	24	1453	1546	1504	N23	E55	.820	8461	28.7	53	1-				2.01				2 2 2
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		
215	24	1621	1655	1625	N23	E58	.847	8461	29.0	34	1-				.60				1 1 1
MCMA	24	1621	1655	1625	N23	E58	.847	8461	29.0	34	-F		C	1625	.41	.80			D
216	24	1858	1904		N24	E40	.668	8459	27.8	6	1-				1.08				1 1 1
MCMA	24	1858	1904		N24	E40	.668	8459	27.8	6	-N		P	1903	.77	1.50			EH
217	24	2212	2243	2217	N06	W15	.258	8454	23.8	31	1-				1.23				2 2 2
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	
218	24	2300	2335		N07	W15	.257	8454	23.8	35	1-				.12				1 1 1
IKOM	24	2300	2335D		N07	W15	.257	8454	23.8	35D	-F		V	2300	.41	.42			D
219	25	0023	0036	0025	N31	E48	.775	8460	28.6	13	1-				.10				1 1 1
MANI	25	0023	0036	0025	N31	E48	.775	8460	28.6	13	-N	2		0025	.15	.24			
220	25	0341	0353	0344	N23	E33	.581	8459	27.6	12	1-				.18				2 2 2
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			
221	25	0549	0608	0553	N22	E28	.513	8459	27.3	19	1-				.29				1 1 1
MANI	25	0549	0608	0553	N22	E28	.513	8459	27.3	19	-N	2		0553	.41	.48			
222	25	0618	0647	0622	N24	W20	.432	8443	23.8	29	1-				1.88				1 1 1
ABST	25	0618	0647	0622	N24	W20	.432	8443	23.8	29	1N		C	0622	2.69	2.90		81	DJK
223	25	0621	0642	0627	N07	W20	.340	8454	23.8	21	1				2.63				4 3 3
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	W22	.372	8454	23.6	21D	-B			0630	1.31	1.42		209	
224	25	0905	1025		N22	E45	.718	8461	28.8	80	1-								1 1 0
KAND	25	0905	1025		N22	E45	.718	8461	28.8	80	-N								C
225	25	0945	0952		N21	E29	.520	8459	27.6	7	1-								1 1 0
KAND	25	0945	0952		N21	E29	.520	8459	27.6	7	-N								C
226	25	0955	1025		N08	W17	.290	8454	24.1	30	1-								1 1 0
KAND	25	0955	1025		N08	W17	.290	8454	24.1	30	-N								C
227	25	1040	1106		N33	E47	.773	8460	29.0	26	1-								2 2 0
KAND	25	1040	1105		N32	E47	.769	8460	29.0	25	-F								C
UCCL	25	1040E	1107D		N34	E46	.768	8460	28.9	27D	-N		P						D
228	25	1040	1103	1058	N08	E23	.388	8459	27.2	23	1-				1.42				1 1 1
UCCL	25	1040E	1103D	1058	N08	E23	.388	8459	27.2	23D	1F		P	1058	2.60	3.10			E

SOLAR FLARES

REVISED
AUGUST 1966

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. %	
229	25	1128	1134		N24	E34	.598	8461	28.0	6	1-				.40				2 2 1
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
230	25	1357	1420	1401	N07	W23	.388	8454	23.9	23	1				2.12				6 6 5
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		
UCCL	25	1358	14110	1403	N06	W26	.436	8454	23.6	130	2N		P	1403	5.16	6.50			E
231	25	1454	1510		N07	W25	.420	8454	23.7	16	1-				.73				1 1 1
MCMA	25	1454	1510		N07	W25	.420	8454	23.7	16	-N		C	1458	.52	.60			BF
232	25	2325	2330	2325	N22	E37	.625	8461	28.8	5	1-				.10				1 1 1
HALE	25	2325	2330	2325	N22	E37	.625	8461	28.8	5	-N	2	C	2325	.10	.10			
233	25	2342	2358	2345	N08	W27	.451	8454	24.0	16	1-				1.19				2 2 2
HALE	25	2341	00010	2342	N08	W26	.435	8454	24.0	200	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			
234	26	0028	0042	0035	N26	E66	.909	8467	31.0	14	1-				.15				1 1 1
HALE	26	0028	0042	0035	N26	E66	.909	8467	31.0	14	-N	2	C	0035	.15				
235	26	0143	0215	0146	N23	E15	.366	8459	27.2	32	1-				.72				1 1 1
HALE	26	0143	0215	0146	N23	E15	.366	8459	27.2	32	-N	2	C	0146	.72	.80			
236	26	0227	0300	0245	N25	E38	.649	8461	29.0	33	1-				.72				1 1 1
HALE	26	0227	0300	0245	N25	E38	.649	8461	29.0	33	-N	2	C	0245	.72	1.00			
237	26	0309	0313	0310	N27	E23	.493	8459	27.9	4	1-				.21				1 1 1
HALE	26	0309	0313	0310	N27	E23	.493	8459	27.9	4	-N	2	C	0310	.21	.20			
238	26	0328	0335	0330	N07	W30	.497	8454	23.9	7	1-				.26				1 1 1
HALE	26	0328	0335	0330	N07	W30	.497	8454	23.9	7	-N	2	C	0330	.26	.30			
239	26	0753	0808		N25	E20	.442	8459	27.8	15	1-								2 2 0
ISTA	26	0750	0805		N24	E23	.466	8459	28.1	15	-								
KAND	26	0755	0811		N25	E16	.400	8459	27.5	16	-F								C
240	26	0827	0938	0834	N20	E34	.579	8461	28.9	71	1-				1.66				5 4 3
ISTA	26	0820	0830		N22	E34	.588	8461	28.9	10	-								
UCCL	26	0822	0850	0834	N19	E32	.549	8461	28.7	28	1N		P	0834	1.56	2.50			EH
KAND	26	0828	1326		N18	E34	.572	8461	28.9	298	1N			1212	4.01	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			
241	26	0831	0902	0840	N20	W48	.746	8443	22.8	31	1-				.63				6 6 4
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	08530		N21	W47	.737	8443	22.8	220	-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
242	26	0831	0845	0834	N23	E50	.772	8467	30.1	14	1-				.58				1 1 1
UCCL	26	0831E	0845	0834	N23	E50	.772	8467	30.1	140	-B		P	0834	.83	1.80			E
243	26	0928	0953	0928	N23	E24	.470	8459	28.2	25	1-				.35				2 1 1
UCCL	26	0925	0933	0928	N23	E23	.458	8459	28.1	8	-F		C	0928	.52	.70			E
KAND	26	0930	1012		N22	E25	.475	8461	28.3	42	-F								C
244	26	1002	1008	1004	N09	W37	.597	8454	23.6	6	1-				.75				2 2 2
UCCL	26	1002	1006	1004	N08	W38	.611	8454	23.6	4	-N		C	1004	1.03	1.80			DH
MEUD	26	1002	1009	1003	N10	W35	.570	8454	23.8	7	-F			1003	.93	1.10			
245	26	1207	1302	1250	N08	W33	.541	8454	24.0	55	1-				.62				4 3 3
KAND	26	1010	1323		N07	W34	.555	8454	23.9	193									C
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		
246	26	1101	1117	1104	N37	E34	.682	8460	29.0	16	1-				.67				1 1 1
ATHN	26	1101	1117	1104	N37	E34	.682	8460	29.0	16	-N	1		1104	.66	.90	1.70		
247	26	1258	1308	1300	N37	E34	.682	8460	29.1	10	1-				.56				1 1 1
ATHN	26	1258	1308	1300	N37	E34	.682	8460	29.1	10	-N	2		1300	.56	.70	1.40		
248	26	1348	1354	1350	N20	E32	.553	8461	29.0	6	1-				.19				1 1 1
HUAN	26	1348	1354	1350	N20	E32	.553	8461	29.0	6	-F	1	C	1350	.21	.21			D
249	26	1417	1446	1428	N20	W51	.777	8443	22.8	29	1-				.62				4 4 4
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		
250	26	1513	1541	1520	N22	E25	.475	8461	28.5	28	1-				.51				2 2 2
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
251	26	1521	1535	1523	N37	E30	.649	8460	28.9	14	1-				.89				1 1 1
ATHN	26	1521E	1535	1523	N37	E30	.649	8460	28.9	140	-N	1		1523	.86	1.40	1.70		
252	26	1530	1545	1532	N22	E58	.846	8467	31.0	15	1-				.76				1 1 1
MCMA	26	1530	1545	1532	N22	E58	.846	8467	31.0	15	-N		C	1532	.52	1.00			D

SOLAR FLARES

REVISED

AUGUST 1966

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	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. %	
253	26	1549	1601	1552	N08	W36	.583	8454	24.0	12	1-				.23				1 1 1
HUAN	26	1549	1601	1552	N08	W36	.583	8454	24.0	12	-F	2	C	1552	.25	.27			E
254	26	1730	1752	1742	N26	E23	.484	8461	28.5	22	2				.99				3 3 3
HUAN	26	1728	1757	1745	N26	E23	.473	8461	28.5	29	-N	2	C	1745	.37	.38			E
LOCK	26	1730	1755	1740	N26	E22	.473	8461	28.4	25	-N		C	1740	1.60	1.80		20	
MCMA	26	1733	1744		N26	E24	.494	8459	28.5	11	-N		P	1744	.62	.70			E
255	26	1806	1952	1822	N24	E22	.466	8461	28.4	106	2-				6.12				5 5 5
SACP	26	1730	1950	1829	N24	E20	.432	8461	28.2	140	2N		C		10.32	10.45			
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			EI
256	26	2031	2049	2038	N23	E55	.820	8467	31.0	18	1-				.73				2 2 2
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
257	26	2138	2150	2148	N22	E57	.837	8467	31.2	12	1-				.76				1 1 1
MCMA	26	2138	2150	2148	N22	E57	.837	8467	31.2	12	-N		C	2148	.52	1.00			EL
258	26	2153	2313	2213	N24	E29	.538	8461	29.1	80	1+				3.76				3 3 3
SACP	26	2146	2324	2215	N24	E29	.538	8461	29.1	98	2B		C		5.18	5.45			
LOCK	26	2153	2340	2210	N25	E26	.510	8461	28.9	107	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
259	26	2330	2351	2324	N23	E23	.458	8461	28.7	21	1-				1.71				2 1 1
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			
260	27	0047	0053	0047	N07	W54	.804	8454	23.0	6	1-				.26				1 1 1
HALE	27	0047E	0053U	0047U	N07	W54	.804	8454	23.0	6D	-N	1	P	0047	.26	.40			
261	27	0211	0237	0217	N24	E29	.538	8461	29.3	26	1-				1.13				4 4 4
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	0218D		N24	E29	.538	8461	29.3	4D	1N		P	0218	1.94	2.33			E
262	27	0519	0539	0520	N26	E11	.369	8459	28.0	20	1-				.28				1 1 1
CULG	27	0519E	0539	0520	N26	E11	.369	8459	28.0	20D	-N		P	0520	.31	.32			
263	27	0610	0618		N09	W38	.611	8454	24.4	8	1-				1.04				1 1 1
ATHN	27	0610E	0618		N09	W38	.611	8454	24.4	8D	-N	1		0612	.99	1.40	1.80		
264	27	0625	0648	0627	N26	W14	.393	8459	26.2	23	1-				.47				1 1 1
CULG	27	0625	0648	0627	N26	W14	.393	8459	26.2	23	-N		C	0627	.52	.55			
265	27	0707	0720	0717	N25	W11	.355	8459	26.5	13	1-				.56				1 1 1
CULG	27	0707	0720D	0717	N25	W11	.355	8459	26.5	13D	-N		P	0717	.62	.66			
266	27	0830	1012		N17	E21	.387	8461	28.9	102									1 0 0
KAND	27	0830	1012		N17	E21	.387	8461	28.9	102									
267	27	0854	0930		N07	W47	.727	8454	23.8	36	1-				.75				4 3 1
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			
268	27	0904	0916	0906	N08	W40	.638	8454	24.4	12	1-				.86				1 1 1
ATHN	27	0904	0916	0906	N08	W40	.638	8454	24.4	12	-N	1		0906	.83	1.10	1.80		
269	27	1049	1128	1100	N07	W43	.678	8454	24.2	39	1-				1.39				3 3 3
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			
270	27	1257	1321	1303	N21	E14	.332	8461	28.6	24	1				2.06				5 5 5
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	1325		N21	E12	.311	8461	28.4	27	1B	4			4.13				
CAPS	27	1259	1302		N19	E19	.374	8461	29.0	3	-N	1		1300	1.80	2.00		165	
271	27	1308	1322	1310	N20	E24	.448	8461	29.3	14	1-				1.43				1 1 1
ATHN	27	1308E	1322	1310	N20	E24	.448	8461	29.3	14D	-N	1		1310	1.29	1.40	1.80		
272	27	1310	1322		N08	W54	.804	8454	23.5	12	1-								1 1 0
WEND	27	1310	1322		N08	W54	.804	8454	23.5	12	-N								
273	27	1434	1451	1437	N09	W49	.749	8454	23.9	17	1-				.57				3 3 2
MCMA	27	1433	1455	1437	N07	W50	.762	8454	23.9	22	-B		C	1437	.52	.70			E
WEND	27	1434	1449		N09	W50	.761	8454	23.9	15	-N								
HUAN	27	1434	1450	1436	N10	W48	.738	8454	24.0	16	-N	2	C	1436	.45	.57			E
274	27	1443	1458	1445	N09	W42	.664	8454	24.5	15	1-				.97				1 1 1
ATHN	27	1443	1458	1445	N09	W42	.664	8454	24.5	15	-N	1		1445	.93	1.20	1.60		
275	27	1603	1618	1611	N22	E15	.355	8461	28.8	15	1-				1.30				4 4 3
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	1623		N21	E16	.355	8461	28.9	20	-F								
SACP	27	1609	1616	1610	N22	E15	.355	8461	28.8	7	-N		C		1.46	1.45			
276	27	1656	1715	1701	N24	E44	.712	8467	31.0	19	1-				.77				1 1 1
SACP	27	1656	1715	1701	N24	E44	.712	8467	31.0	19	-F		C		.86	1.01			

SOLAR FLARES
REVISED
AUGUST 1966

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. %	
277	27	1704	1715	1708	N22	E12	.324	8461	28.6	11	1-				.87				1 1 1
MCMA	27	1704	1715	1708	N22	E12	.324	8461	28.6	11	-N		C	1708	.62	.70			E
278	27	1707	1714	1708	N08	W53	.794	8454	23.7	7	1-				.19				1 1 1
HUAN	27	1707	1714	1708	N08	W53	.794	8454	23.7	7	-F	2	C	1708	.21	.26			D
279	27	1802	1818	1812	N22	E14	.344	8461	28.8	16	1-				.90				2 2 2
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	
280	27	1800	1822	1803	N07	W52	.783	8454	23.9	22	1-				.74				1 1 1
MCMA	27	1800	1822	1803	N07	W52	.783	8454	23.9	22	-N		C	1803	.52	.70			E
281	27	1845	1900	1850	N22	E12	.324	8461	28.7	15	1-				.86				3 3 3
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			
282	27	1855	1927	1909	N07	W52	.783	8454	23.9	32	1				1.79				3 3 3
MCMA	27	1855	1923		N06	W53	.795	8454	23.8	28	1B		C	1908	1.55	2.50			F
HUAN	27	1855	1927	1858	N07	W53	.794	8454	23.8	32	-N	2	C	1858	.83	1.03			E
SACP	27	1859E	1932	1909	N07	W51	.773	8454	24.0	33D	1F		P		2.69	3.40			
283	27	1932	1939	1935	N10	W56	.823	8447	23.6	7	1-				.16				1 1 1
SACP	27	1932	1939	1935	N10	W56	.823	8447	23.6	7	-F		C		.18	.23			
284	27	2008	2138	2035	N22	E12	.324	8459	28.7	90	1-				2.62				4 4 4
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
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			
285	27	2200	2250	2210	N24	E13	.359	8461	28.9	50	1-				.94				1 1 1
LOCK	27	2200	2250	2210	N24	E13	.359	8461	28.9	50	-N		C	2210	.90	.90		20	
286	27	2245	2347	2251	N22	E08	.289	8461	28.5	62	1				2.55				1 1 1
SACP	27	2245	2347U	2251	N22	E08	.289	8461	28.5	62D	1N		P		2.77	2.73			
287	27	2324	2339	2327	N21	E07	.267	8459	28.5	15	1-				.28				1 1 1
MANI	27	2324	2339	2327	N21	E07	.267	8459	28.5	15	-N	2		2327	.41	.43			
288	28	0007	0015		N05	W57	.836	8454	23.7	8	1-								1 1 0
MITK	28	0007E	0015D		N05	W57	.836	8454	23.7	8D	-N		V						
289	28	0046	0108	0050	N06	W54	.805	8454	24.0	22	1-				.59				2 2 2
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			
290	28	0324	0339	0326	N25	E05	.318	8461	28.5	15	1-				.67				3 2 2
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
291	28	0511	0534	0518	N07	W56	.825	8454	24.0	23	1				1.03				4 3 3
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
292	28	0644	0706	0647	N21	E03	.245	8461	28.5	22	1-				1.18				6 4 3
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
BUCA	28	0645E	0730U	0651	N20	E01	.224	8461	28.4	45D	-N		C	0651	1.68	1.70			E
CATA	28	0650E	0705U	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	3.05	3.00			P
293	28	0645	0703	0646	N09	E09	.158	8461	29.0	18	1-				1.16				1 1 1
ATHN	28	0645E	0703	0646	N09	E09	.158	8461	29.0	18D	-N	1			.99	1.10	1.80		
294	28	0712	0732	0719	N07	W58	.844	8454	24.0	20	1-				.32				3 3 2
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		
295	28	0832	0850	0837	N23	E33	.580	8467	30.8	18	1-				.47				2 2 2
BUCA	28	0830E	0850U		N23	E30	.543	8467	30.6	20D	-F		C		.90	1.10			
UCCL	28	0834	0850	0837	N22	E35	.600	8467	31.0	16	-N		C	0837	.43	1.00			E
296	28	0900	1005	0916	N25	W02	.309	8461	28.2	65	1-				1.74				1 1 1
BUCA	28	0900E	1005U	0916	N25	W02	.309	8461	28.2	65D	1N		C	0916	2.25	2.40			E
297	28	0935	0945	0937	N25	E35	.614	8467	31.0	10	1-				.32				1 1 1
ATHN	28	0935E	0945U	0937	N25	E35	.614	8467	31.0	10D	-N	1		0937	.33	.40	1.60		
298	28	0949	1021	0958	N07	W65	.902	8454	23.5	32	1				1.27				10 10 9
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
UCCL	28	0946	1033	1000	N08	W64	.894	8454	23.6	47	1B		C	1000	1.56				DW
ATHN	28	0950E	1021	1008	N08	W58	.843	8454	24.1	31D	1N	1		0952	1.16	2.30	1.90		
WEND	28	0950	1022		N07	W66	.910	8454	23.5	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	1015U	0958	N05	W66	.911	8454	23.5	20D	1B			0958	1.71			219	

SOLAR FLARES

REVISED

AUGUST 1966

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. %	
299	28	1021	1034	1022	N23	E73	.949	8474	2.9	13	1-				.67				2 2 2
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
300	28	1101	1114		N25	W01	.308	8461	28.4	13	1-				.81				1 1 1
UCCL	28	1101	1114D		N25	W01	.308	8461	28.4	13D	1N		C	1110	1.30	1.80			E
301	28	1127	1135	1130	N08	W56	.824	8454	24.3	8	1-				.53				1 1 1
ATHN	28	1127	1135	1130	N08	W56	.824	8454	24.3	8	-N	1		1130	.53	1.00	1.60		
302	28	1127	1152		N25	W02	.309	8459	28.3	25	1-				.57				1 1 1
ATHN	28	1127E	1152		N25	W02	.309	8459	28.3	25D	-N	1		1130	.53	.60	1.70		
303	28	1153	1205	1157	N06	W58	.844	8454	24.1	12	1-				1.26				5 4 3
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	1200U		N03	W55	.818	8454	24.4		1B				.77	1.13			
304	28	1242	1313	1245	N07	W65	.902	8454	23.7	31	1-				.92				2 2 2
WEND	28	1241	1336		N07	W61	.870	8454	24.0	55	1N				4.13				
HUAN	28	1243	1250	1245	N07	W68	.923	8454	23.4	7	-F	2	C	1245	.25				D
305	28	1247	1259	1252	N22	E32	.563	8467	30.9	12	1-				.50				2 2 1
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		
306	28	1302	1350		N17	W60	.860	8447	24.0	48	1-				.46				1 1 1
MCMA	28	1302	1350		N17	W60	.860	8447	24.0	48	-B		C	1312	.31	.80			BE
307	28	1309	1322		N26	W03	.327	8461	28.3	13	1-								1 1 0
WEND	28	1309	1322		N26	W03	.327	8461	28.3	13	-F								
308	28	1523	1812	1532	N22	E04	.265	8459	28.9	169	2+				11.99				9 8 8
MCMA	28	1522	2000	1529	N23	E04	.281	8459	28.9	278	3B		C	1529	12.38	12.70			ITUV
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			
HALE	28	1640E	1945	1640U	N21	E01	.241	8461	28.8	185D	1B	2	P	1640	2.89	3.00			
309	28	1641	1655	1645	N08	W60	.861	8454	24.2	14	1				1.22				6 6 5
SACP	28	1637	1657	1646	N07	W61	.870	8454	24.1	20	1N		C		2.43	3.66			
HUAN	28	1638	1656	1643	N08	W62	.878	8454	24.0	18	-N	2	C	1643	.57	.87			E
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	
310	28	1755	1817	1758	N05	W70	.937	8454	23.5	22	1+				1.03				1 1 1
HALE	28	1755	1817	1758	N05	W70	.937	8454	23.5	22	1B	1	C	1758	1.03				
311	28	2047	2107	2048	N25	E30	.556	8467	31.1	20	1-				1.41				2 2 2
HALE	28	2046	2115	2047	N25	E29	.544	8467	31.0	29	-N	1	C	2047	.93	1.10			
MCMA	28	2047	2059	2049	N25	E30	.556	8467	31.1	12	-F		C	2049	1.34	1.50			F
312	28	2048	2103	2051	N23	E03	.276	8461	28.7	15	1-				.75				2 2 2
HALE	28	2047	2100	2050	N22	W00	.257	8461	28.9	13	-B	1	C	2050	.62	.60			
MCMA	28	2049	2105	2052	N23	E04	.281	8461	29.2	16	-B		C	2052	.62	.60			E
313	28	2049	2057	2051	N18	E13	.287	8461	29.8	8	1-				.20				1 1 1
CLMX	28	2049	2057	2051	N18	E13	.287	8461	29.8	8	-N		C	2051	.30	.32			
314	28	2112	2133	2117	N07	W69	.930	8454	23.7	21	1-				.96				3 3 3
HALE	28	2110	2125	2115	N06	W69	.930	8454	23.7	15	-B	1	C	2115	.52				
MCMA	28	2112	2136	2118	N07	W68	.923	8454	23.8	24	-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			
315	28	2114	2118	2115	N46	W61	.906	8442	24.3	4	1-				.27				1 1 1
CLMX	28	2114	2118	2115	N46	W61	.906	8442	24.3	4	-B		C	2115	.40	.64			
316	28	2127	2150	2134	N23	E02	.276	8461	29.0	23	1-				1.63				2 2 2
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			
317	28	2132	2142	2133	N18	E13	.287	8461	29.9	10	1-				.27				1 1 1
CLMX	28	2132	2142	2133	N18	E13	.287	8461	29.9	10	-N		C	2133	.40	.42			
318	28	2212	2226	2214	N22	E00	.257	8361	28.9	14	1-				1.16				4 3 3
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			
319	28	2217	2225	2219	N05	W74	.959	8454	23.4	8	1-				.50				4 4 4
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				
320	28	2235	2255	2239	N23	E03	.278	8461	29.2	20	1-				1.44				1 1 1
MCMA	28	2235	2255	2239	N23	E03	.278	8461	29.2	20	-F		C	2239	1.03	1.10			E

SOLAR FLARES

REVISED

AUGUST 1966

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. %	
321	29	0155	0207	0201	N23	E63	.886	8474	2.8	12	1-				.57				1 1 1
HALE	29	0155	0207	0201	N23	E63	.886	8474	2.8	12	-N	2	C	0201	.57	1.30			TJ
322	29	0241	0253	0244	N21	E62	.878	8474	2.8	12	1-				.28				2 2 2
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
323	29	0300	0350	0328	N22	E61	.870	8474	2.7	50	1-				.69				3 3 3
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
324	29	0313	0338	0333	N07	W75	.963	8454	23.5	25	1				.62				1 1 1
HALE	29	0313	0338D	0333	N07	W75	.963	8454	23.5	25D	1N	2	P	0333	.62				T
325	29	0358	0406	0358	N11	W69	.928	8454	24.0	8	1-				.31				1 1 1
HALE	29	0358E	0406	0358E	N11	W69	.928	8454	24.0	8D	-N	1	P	0358	.31				TJ
326	29	0358	0408	0402	N22	E62	.878	8474	2.8	10	1-				.21				1 1 1
HALE	29	0358E	0408	0402	N22	E62	.878	8474	2.8	10D	-N	1	P	0402	.21	.40			T
327	29	0413	0435	0418	N21	E58	.845	8474	2.5	22	1-				.21				1 1 1
HALE	29	0413	0435D	0418	N21	E58	.845	8474	2.5	22D	-N	2	C	0418	.21	.40			T
328	29	0528	0555		N22	E61	.870	8474	2.8	27	1-				1.30				2 2 2
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				
329	29	0542	0628	0549	N21	W07	.266	8461	28.7	46	1				3.12				8 7 6
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			
VORO	29	0556	0625		N21	W08	.274	8461	28.6	29	-F		C	0558	.70	.75		56	E
330	29	0554	0621		N09	W08	.142	8461	28.6	27	1-				2.08				1 1 1
CAPS	29	0554	0621		N09	W08	.142	8461	28.6	27	-B	3		0557	1.80	1.90		220	
331	29	0604	0610	0606	N22	W61	.870	8447	24.7	6	1-				.85				1 1 1
VORO	29	0604	0610	0606	N22	W61	.870	8447	24.7	6	1F		C	0606	1.00	2.15		50	D
332	29	0608	0658		N22	E61	.870	8474	2.8	50	1-				1.83				2 2 2
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				
333	29	0726	0753		N22	E61	.870	8474	2.9	27	1-				1.80				2 2 2
CAPS	29	0726	0745		N22	E60	.862	8474	2.8	19	1N	3		0737	1.20			182	
WEND	29	0726	0801		N22	E61	.870	8474	2.9	35	1N	5			5.16				
334	29	0757	0819	0807	N06	W68	.924	8454	24.2	22	1				1.03				4 4 4
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				
335	29	0830	0851		N21	E61	.870	8474	2.9	21	1-				.98				1 1 1
ARCE	29	0830	0851		N21	E61	.870	8474	2.9	21	1N		C	0835	.98	2.02			H
336	29	0850	0908	0850	N21	W06	.259	8461	28.9	18	1-				2.08				4 3 3
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		
UCCL	29	0851E	0909D		N24	W07	.312	8461	28.8	18D	1N		P	0854	.73	.80			E
337	29	0853	0859		N22	E60	.862	8474	2.9	6	1				2.30				1 1 1
CAPS	29	0853	0859		N22	E60	.862	8474	2.9	6	1F	3		0855	2.30			156	
338	29	1028	1100		N21	E59	.853	8474	2.9	32	1-				.50				1 1 1
CAPS	29	1028	1100		N21	E59	.853	8474	2.9	32	-N	3		1030	.50	.90		180	D
339	29	1158	1211		S16	W90	1.001	8479	22.7	13	1-								1 1 0
ONDR	29	1158	1211		S16	W90	1.001	8479	22.7	13	-F		V	1203			1.50		AGJ
340	29	1207	1222		N21	W10	.291	8461	28.8	15	1-				.50				2 2 1
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
341	29	1226	1237	1229	N06	W72	.948	8454	24.1	11	1-				.34				2 2 2
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
342	29	1331	1425	1336	N21	W11	.300	8461	28.7	54	1				2.57				8 5 4
SACP	29	1318	1507	1340	N22	W13	.333	8461	28.6	109	1N		C		3.57	3.53			
MCMA	29	1324	1520	1333	N21	W11	.300	8461	28.7	116	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	1429		N18	W09	.241	8461	28.9	46	1B				4.13				
343	29	1331	1348	1337	N58	W68	.953		24.5	17	1-				.35				1 1 1
CLMX	29	1331	1348	1337	N58	W68	.953		24.5	17	-N		C	1337	.50	1.00			

SOLAR FLARES

REVISED

AUGUST 1966

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. %	
344	29	1333	1352	1339	N18	W78	.972	8447	23.7	19	1-				.33				3 3 2
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
345	29	1437	1444		S16	W90	1.001	8479	22.9	7	1-								1 1 0
ONDR	29	1437	1444		S16	W90	1.001	8479	22.9	7	1F		V	1444			1.50		AG
346	29	1446	1529	1456	N21	E53	.799	8474	2.6	43	1-				.78				1 1 1
SACP	29	1446	1529	1456	N21	E53	.799	8474	2.6	43	-F		C		.87	1.14			
347	29	1545	1615	1548	N21	W11	.300	8461	28.8	30	1-				.73				1 1 1
MCMA	29	1545	1615	1548	N21	W11	.300	8461	28.8	30	-N		C	1548	.52	.50			E
348	29	1645	1735	1710	S22	W90	1.001	8479	22.9	50	1-				.51				1 1 1
LOCK	29	1645E	1735	1710	S22	W90	1.001	8479	22.9	50D	1F		C	1720	.60	2.20		10	
349	29	1656	1701	1657	N08	W75	.962	8454	24.1	5	1-				.15				1 1 1
HUAN	29	1656	1701	1657	N08	W75	.962	8454	24.1	5	-F	2	C	1657	.21				D
350	29	1819	1917	1839	N22	W11	.313	8461	28.9	58	1-				1.02				3 3 3
LOCK	29	1810	1920	1908	N22	W12	.323	8461	28.9	70	-N		C	1908	1.40	1.50		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			
351	29	1951	2006	1953	N21	E54	.808	8474	2.9	15	1-				.56				2 2 2
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
352	29	2024	2201	2039	N24	W17	.398	8461	28.6	97	2-				3.50				3 3 3
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	N23	W14	.355	8459	28.8	97	1B		C	2035	1.96	2.10			F
SACP	29	2028	2111D	2038	N25	W21	.452	8459	28.3	43D	1N		P		2.88	2.92			
353	29	2058	2136	2120	N07	W90	1.000	8454	23.1	38	1-				.89				1 1 1
LOCK	29	2058	2136	2120	N07	W90	1.000	8454	23.1	38	1F		C	2120	1.00	3.80		10	
354	29	2222	2339	2236	N06	W84	.993	8454	23.6	77	1				1.03				3 3 3
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	2258	2235	N06	W81	.986	8454	23.9	28	1N	2	C	2235	.62				
355	30	0120	0134	0122	N06	W77	.972	8454	24.3	14	1-				.21				1 1 1
HALE	30	0120	0134	0122	N06	W77	.972	8454	24.3	14	-N	1	C	0122	.21				
356	30	0212	0258	0236	N12	W28	.470	8461	28.0	46	1+				4.13				1 1 1
HALE	30	0212	0258	0236	N12	W28	.470	8461	28.0	46	1B	1	C	0236	4.13	4.70			FIL
357	30	0232	0247	0236	N24	W27	.513	8461	28.1	15	1				2.94				3 3 3
VORO	30	0231E	0242	0235	N24	W23	.466	8461	28.4	11D	2F		C	0235	5.50	6.22		50	FHJ
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			
358	30	0235	0258	0239	N25	W17	.409	8461	28.8	23	1-				.83				1 1 1
HALE	30	0235	0258	0239	N25	W17	.409	8461	28.8	23	-N	1	C	0239	.83	.90			
359	30	0248	0312	0253	N30	W26	.551	8459	28.2	24	1-				.72				1 1 1
HALE	30	0248	0312	0253	N30	W26	.551	8459	28.2	24	-B	1	C	0253	.72	.90			
360	30	0855	0905		N06	W90	1.000	8454	23.6	10	1-								1 1 0
ISTA	30	0855	0905		N06	W90	1.000	8454	23.6	10	1								
361	30	1132	1140	1135	N25	W20	.441	8461	29.0	8	1-				.94				4 4 4
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
UCCL	30	1132	1137	1135	N26	W22	.472	8461	28.8	5	1N		C	1135	1.03	1.30			E
362	30	1143	1146		N08	W90	1.000	8454	23.7	3	1-				.39				1 1 1
ATHN	30	1143E	1146		N08	W90	1.000	8454	23.7	3D	-F	2		1143	.33				
363	30	1350	1415	1353	N22	W27	.499	8461	28.6	25	1-				1.28				2 2 2
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	
364	30	1450	1602	1457	N22	W27	.499	8461	28.6	72	1+				7.01				6 4 4
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	N24	W25	.489	8461	28.7	66	1N	2	C	1456	1.86	1.85			EH
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		C		5.05	5.50			
LOCK	30	1525E	1525D	1525U	N21	W28	.506	8461	28.5		2N		C	1525	5.00	6.00		20	
365	30	1545	1608	1549	N27	W27	.536	8461	28.6	23	2-				3.70				3 3 2
SACP	30	1545	1607	1548	N26	W26	.517	8461	28.7	22	2B		C		5.19	5.40			
LOCK	30	1545	1605	1551	N28	W30	.576	8461	28.4	20	1N		C	1551	2.30	2.70			
MCMA	30	1546	1615	1548	N26	W26	.517	8461	28.7	29	1B		C						FL
366	30	1546	1600		N09	W90	1.000	8454	23.9	14	1-				1.07				1 1 1
ATHN	30	1546E	1600		N09	W90	1.000	8454	23.9	14D	-B	2		1547	.99		2.00		
367	30	1850	1908	1900	N27	W28	.547	8461	28.7	18	1-				.71				1 1 1
LOCK	30	1850	1908	1900	N27	W28	.547	8461	28.7	18	-F		C	1900	.70	.80		10	
368	30	1949	1956	1952	N26	W24	.494	8461	29.0	7	1-				.21				1 1 1
HALE	30	1949	1956	1952	N26	W24	.494	8461	29.0	7	-N	1	C	1952	.21	.20			

SOLAR FLARES

REVISED

AUGUST 1966

OBSERV-ATORY	OBSERVED UT DATE 1966 AUG	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
369	30	2017	2034	2020	N23	W25	.482	8461	29.0	17	1-				.50				2 2 2
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			
370	30	2151	2158	2153	N25	W25	.497	8461	29.0	7	1-				.26				1 1 1
HALE	30	2151	2158D	2153	N25	W25	.497	8461	29.0	7D	-N	1	P	2153	.26	.30			
371	31	0002	0021		N22	W30	.537	8461	28.8	19	1-				2.47				1 1 1
MITK	31	0002E	0021D		N22	W30	.537	8461	28.8	19D	1N		P	0020	3.09	3.80			F
372	31	0037	0127	0109	N21	W30	.532	8461	28.8	50	2-				4.65				7 6 6
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			
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
374	31	0154	0235	0210	N23	W29	.531	8461	28.9	41	1-				1.77				3 3 3
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			ITKJ
IKOM	31	0200E	0305		N22	W28	.512	8461	29.0	65D	1N		V	0247	2.89	3.30	1.38	125	F
374	31	0226	0308	0229	N21	E36	.608	8474	2.8	42	1-				.31				1 1 1
HALE	31	0226	0308	0229	N21	E36	.608	8474	2.8	42	-F	1	C	0229	.31	.40			
375	31	0252	0348	0254	N22	W29	.525	8461	28.9	56	1+				2.76				4 2 3
MANI	31	0112	0347	0240	N20	W30	.527		28.8	155				0240	4.13	4.90			
TACH	31	0250E	0435	0252	N22	W32	.562	8461	28.7	105D	2N		C	0252	5.93	7.10	2.60	96	EZ
HALE	31	0255	0420D	0256	N26	W27	.528	8461	29.1	85D	-N	1	C	0256	.21	.20			T
MITK	31	0301E	0348D		N21	W28	.532	8461	29.0	47D	2F		C	0344	4.33	5.20			F
376	31	0348	0428	0353	N22	W31	.550	8461	28.8	40	1-				2.18				3 2 2
TACH	31	0250E	0435	0352	N22	W32	.562	8461	28.7	105D			C						
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
377	31	0550	0559	0552	N25	W52	.795	8459	27.3	9	1-				.79				1 1 1
ATHN	31	0550E	0559D	0552	N25	W52	.795	8459	27.3	9D	-N	2		0552	.78	1.50			
378	31	0604	0613	0607	N22	W58	.845	8459	26.9	9	1-				.86				1 1 1
ATHN	31	0604E	0613	0607	N22	W58	.845	8459	26.9	9D	-N	2		0607	.85	1.70			
379	31	0604	0620		N27	W32	.591	8461	28.9	16	1				3.09				1 1 1
KIEV	31	0604E	0620D		N27	W32	.591	8461	28.9	16D	1N		P	0604	3.09	4.00		65	EI
380	31	0946	1004	0949	N22	W37	.624	8461	28.6	18	1-				.87				5 5 4
ARCE	31	0938	1000	0951	N21	W37	.620	8461	28.6	22	-N		C	0951	.81	1.05			
ATHN	31	0946F	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	-N	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
381	31	1006	1227		N26	W01	.323	8467	31.3	141	1-				.94				2 2 1
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								
382	31	1135	1215	1145	N22	W36	.612	8461	28.8	40	1-				3.60				5 5 5
KAND	31	0736	1405		N22	W33	.575	8461	28.8	389	1N			0817	5.59	6.00			
BUCA	31	1104E	1220D	1144	N22	W35	.608	8461	28.8	76D	1N		C	1144	2.68	3.40			E
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		
383	31	1250	1315	1254	N21	W37	.620	8461	28.8	25	1-				1.10				6 6 6
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
ATHN	31	1250	1304	1252	N19	W39	.638	8461	28.6	14	-N	2		1252	1.32	1.80	1.50		
HERS	31	1250	1304	1253	N21	W35	.595	8461	28.9	14	-N		P	1253	.72	.90			E
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
384	31	1312	1333	1318	N22	W38	.636	8461	28.7	21	1				2.56				6 6 5
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
385	31	1540	1615	1600	N21	W31	.545	8461	29.3	35	1-				.50				1 1 1
LOCK	31	1540	1615	1600	N21	W31	.545	8461	29.3	35	-F		C	1600	.50	.60		10	
386	31	1705	1708	1706	N21	W41	.668	8461	28.6	3	1-				.19				1 1 1
HUAN	31	1705	1708	1706	N21	W41	.668	8461	28.6	3	-F	2	C	1706	.21	.23			D
387	31	1830	1844	1832	N26	W36	.631	8461	29.1	14	1-				.42				3 3 3
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

SOLAR FLARES

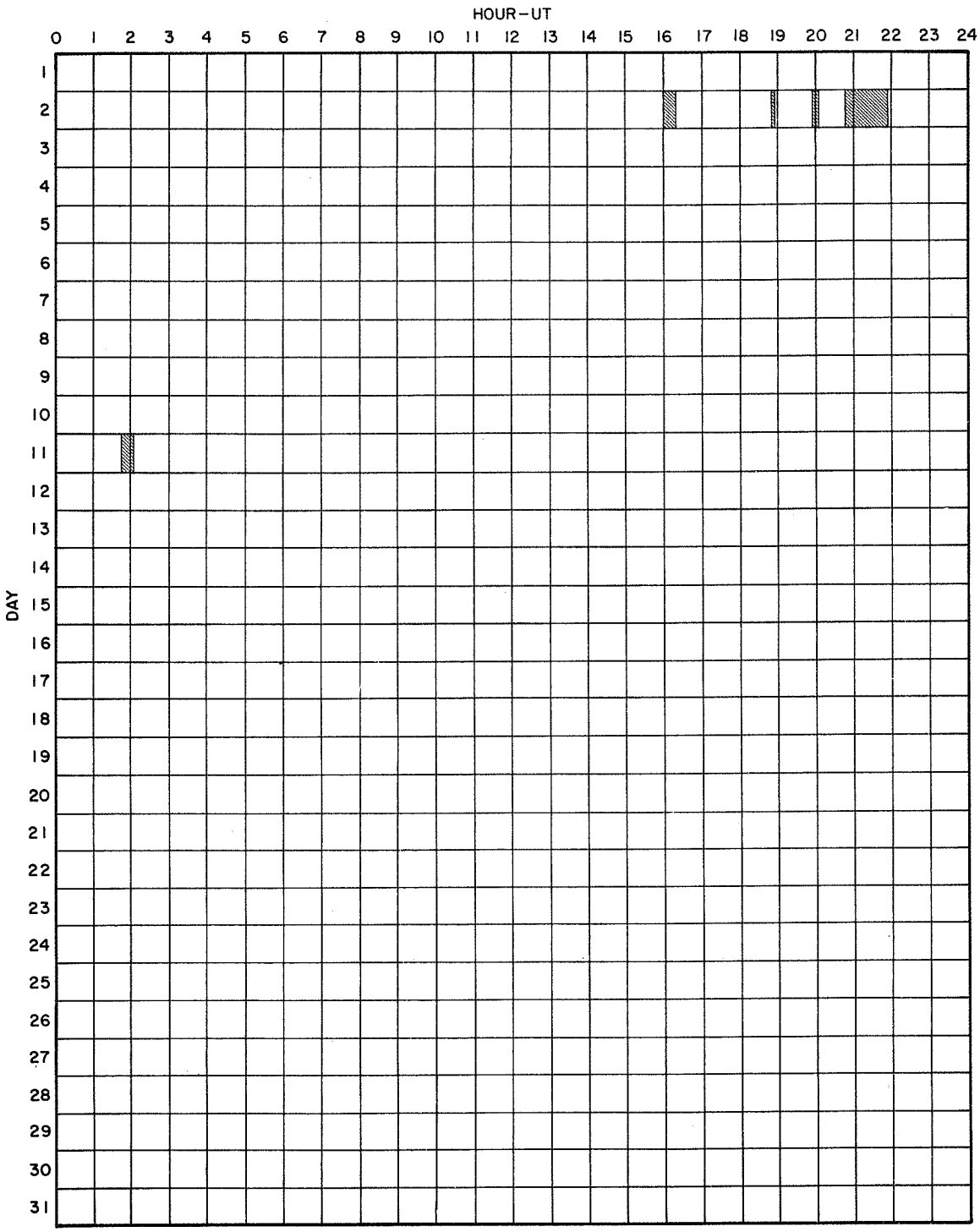
REVISED

AUGUST 1966

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. %			
388	31	1845	1949	1908	N22	W37	.624	8461	29.0	64	1+				3.25				5	5	5
SACP	31	1835E	2009	1917	N21	W39	.645	8461	28.8	94D	2F		C		6.90	7.70					
LOCK	31	1840	2020	1905	N21	W39	.645	8461	28.9	80	2B		C	1905	4.80	6.20		30			
HALE	31	1847	1946	1908	N22	W37	.624	8461	29.0	59	-N	1	C	1908	1.44	1.90			TFI		
HUAN	31	1849	1922	1902	N22	W35	.600	8461	29.2	33	1F	2	C	1902	.77	.84					
MCMA	31	1853	1908		N25	W36	.625	8461	29.1	15	1N		P	1905	1.55	2.10			E		
389	31	2014	2028	2018	N22	W43	.694	8461	28.6	14	1-				.59				2	2	2
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		
390	31	2036	2043	2038	N21	W43	.692	8461	28.6	7	1-				.38				2	2	2
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		
391	31	2116	2126	2118	N21	W43	.692	8461	28.7	10	1-				.68				3	3	3
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

AUGUST 1966



Observatories included:

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

Table of Contents
for Miscellaneous Data

IUWDS International Geophysical Calendar for 1967

1967 JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

1967 FEBRUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

1967 MARCH

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

1967 APRIL

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

1967 MAY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

1967 JUNE

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

1967 JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

1967 AUGUST

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

1967 SEPTEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

1967 OCTOBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

1967 NOVEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

1967 DECEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

1968 JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

(17) Regular World Day (RWD)

[9] Day of Solar Eclipse

3 Day with unusual meteor shower activity

[13 14] World Geophysical Interval (WGI)

◇15 Quarterly World Day (QWD) also a PRWD and RGD

(18) Priority Regular World Day (PRWD)

△4 Regular Geophysical Day (RGD)

SUDDEN COMMENCEMENTS AND SOLAR-FLARE EFFECTS, JANUARY - SEPTEMBER 1966

Preliminary Report of Sudden Commencements

These reports are provided by Dr. A. Romana for the International Association of Geomagnetism and Aeronomy Commission IV: Magnetic Activity and Disturbances.

S.c.'s given by ten or more stations are underlined. Times are mean values obtained from normal magnetograms. When the names of the observatories are not given, the letters in square brackets indicate the quality of the observations.

Sudden commencements followed by a magnetic storm or a period of storminess (s.s.c.)

1966 January 07d 15h 01m: fifty-one (ssc: 38 [A:11; B:22; C:5]; si: 12 [A:1; B:8; C:3]; sfe: Ir). -20d 02h 03m: fifty-seven (ssc: 54 [A:15; B:33; C:6]; si: 2; bps: 1). -21d 07h 59m: sixteen (ssc: 10 [A:1; B:7; c:2]; si: 6). -22d 05h 01m: Ma Lg IK T1 Mc (si: Te; pc5: Es).

1966 February 03d 05h 58m: Me Ag (pi2: Tu; pc5: Te). -11d 07h 50m: Ks Ap (si: Te). -19d 11h 00m: V1 Pr? Hb Lg Gn. -22d 14h 21m: Wn Pr Hb Tf TC (si: Od Lg; bs: Ir; bp: Kv?; bps: Mo).

1966 March 08d 10h 16m: Co Tk (pc4: Te). -09d 10h 56m: twenty-four (ssc: 19 [A:1; B:8; C:10]; si: 3; bp: 1; sfe: Od). -13d 06h 00m: Ir Ag (pi2: Tu; pc5: Te). -13d 12h 04m: Wn Pr. -13d 13h 51m: V1 Ci. -17d 18h 04m: Lg TC (si: Ks). -19d 02h 08m: twenty-one (ssc: 12 [A:1; B:6; C:5]; si: 2; bp: 1; pi2: 6). -23d 07h 48m: twenty-five (ssc: 19 [A:5; B:10; C:4]; si: 6). -24d 23h 37m: fourteen (ssc: 12 [B:7; C:5]; si:2). -26d 09h 58m: Hb Su Tf Pe Bi Lu (si: Od Tk Te; pi2: SJ?). -27d 19h 35m: forty-one (ssc: 26 [A:6; B:12; C:8]; si: 11 [A:5; B:6]; b: 1; bs: 1; sfe: T1 Ks).

1966 April 01d 12h 37m: fifty-five (ssc: 50 [A:15; B:31; C:4]; si: 4; bp: 1). -06d 23h 20m: Hb Tf SF Ks TC SJ Gu (si: V1 Pr Lg Eb Mc Tn; bs: Bi Hu; bp: Ma Hr). -13d 03h 44m: Ir Tk Mc Ap (si: Ky; b: Hu; bp: V1; pi2: MB). -13d 07h 55m: V1 SF (pi2: Si). -14d 08h 57m: seventeen (ssc: 11 [A:1; B:4; C:6]; si: 4; b: 1; bp:1). -20d 06h 06m: Co Ae SF SJ To (si: Bi Lu PM; bp: Hu). -21d 19h 57m: thirty-one (ssc: 29 [A:2; B:11; C:16]; si: 2).

1966 May 08d 09h 57m: So Ma Hb? Ag MB? Mc Bi (si: H1; bp: PM Hu; bps: Ap; pi2: Ho; pc5: Te). -25d 23h 27m: fifty-three (ssc: 51 [A:22; B:25; C:4]; si: 1; b: 1). -30d 19h 13m: MB Mc. -31d 03h 42m: forty-three (ssc: 42 [A:14; B:23; C:5]; si: 1).

1966 June 02d 02h 36m: T1 Ae (si: H1). -05d 12h 15m: Su Tf (sfe: T1). -23d 07h 49m: Ir SM. -23d 09h 22m: Sw Hb Tf TC (si: Mb Tk Eb; sfe: Ir Bi). -24d 08h 44m: Od Tf. -24d 13h 55m: thirty-nine (ssc: 22 [A:4; B:18]; si: 16 [A:6; B:5; C:5]; pc5: 1).

1966 July 07d 21h 55m: T1? Ae. -08d 21h 02m: forty (ssc: 30 [A:15; B:11; C:4]; si: 5; bp: 2; bps: 2; pc4:1). -11d 15h 43m: twenty (ssc: 18 [A:2; B:9; C:7]; si: 2). -15d 15h 00m: forty-three (ssc: 39 [A:11; B:17; C:11]; si: 3; bp: 1). -27d 06h 03m: forty-six (ssc: 43 [A:9; B:28; C:6]; si: 3). -27d 12h 51m: Hb Su IK Pe SF Ks Ta PM (si: Mo CF Od Lg Eb Bi; sfe: Ir).

1966 August 03d 09h 51m: twenty (ssc: 11 [A:2; B:7; C:2]; si: 9). -18d 11h 43m: V1 Hb? Tf SF (si: Lg). -23d 07h 15m: V1 T1? (bs: Ir). -29d 13h 15m: fifty-four (ssc: 53 [A:39; B:14]; si: 1). -30d 11h 12m: fifty-three (ssc: 48 [A:35; B:12; C:1]; si: 5).

1966 September 02d 08h 23m: thirty-three (ssc: 29 [A:4; B:16; C:9]; si: 3; sfe: Eb?). -03d 04h 41m: Ma Hb Ci Bi (si: Ni SF Te). -03d 10h 31m: CF Mb Ka Ky Ta (si: Te Mc Ac; pi2: SJ). -06d 03h 03m: Ag Fr SJ; si: Te; bps: Hu; pi2:MB Ac). -14d 15h 11m: forty-three (ssc: 34 [A:5; B:21; C:8]; si: 4; bs: 2; bp: 1; bps: 1; sfe: MB?). -19d 02h 51m: forty-three (ssc: 32 [A:7; B:18; C:7]; si:11 [A:2; B:4; C:5]). -23d 08h 56m: forty-eight (ssc: 47 [A:25; B:21; C:1]; si: 1).

Sudden impulses found in the magnetograms (s.i.)

1966 January 02d 02h 14m: Mb Ka Ky (ssc: Gu PM; b: Pe; bps: Hr). -06d 12h 25m: Lg TC. -14d 07h 25m:twenty-four (si: 14 [B:8; C:6]; ssc: 6; bp: 1; bps: 1; sfe: Od Tk). -18d 09h 35m: Es Lg (ssc: Hb?; pi2: Ci). -20d 09h 49m: Es V1 CF T1 Hr (ssc: Lu; sfe: Ir). -21d 15h 42m: Lg Eb Lu. -22d 12h 54m: Es V1 Te. -24d 14h 09m: TC (ssc: Hu). -25d 06h 50m: So (pi2 + pc4: Tw). -28d 19h 53m: Tn (ssc: Tf). -28d 22h 22m: forty-three (si: 34 [A:21; B:11; C:2]; ssc: 3; bs: 4; bp: 1; sfe: Ir).

1966 February 04d 15h 42m: Lg Mc. -11d 14h 25m: Es Wn V1 Pr. -11d 17h 52m: Lg (ssc: Tf). -11d 18h 26m: V1 Od Lg Eb T1 Ae SF Ks Te. -15d 19h 27m: T1 Ae (pg:SM). -19d 17h 40m: CF Hb Mb Lg Ka Ky Te (ssc: TC). -23d 08h 48m: Lg SF. -25d 12h 54m: V1 CF Lg Ae TC.

1966 March 07d 10h 07m: TC Hr (sfe: Tn). -08d 08h 42m: Es Ae (sfe: Od). -14d 16h 00m: Mb Ka Ky Hu (bs: Ir; bp: Hr). -17d 21h 15m: Od Te (ssc: Tf; sfe: Ir). -17d 23h 34m: Mb Ka Ky Te (ssc: Tf). -19d 03h 08m: Mb Ka Ky Te. -23d 00h 12m: twenty-nine (si: 22 [A:10; B:10; C:2]; ssc: 7). -23d 11h 34m: Mo Ma Db Ho Te Gu Mc Hu Ap (ssc: Wn Wi Pr Fu IK T1 Tw; pi2: SJ). -23d 12h 26m: CF Lg Te Mc. -25d 11h 42m: Wi V1 T1? SF Hr (ssc: TC). -25d 12h 25m: thirty-one (si: 18 [A:9; B:6; C:3]; ssc: 13 [A:4; B:8; C:1]). -25d 14h 32m: Es Te. -26d 12h 42m: Es V1 CF T1 SF Mc Hu (ssc: Ci Lu; bp: To). -26d 22h 14m: Te (ssc: Tf).

1966 April 08d 03h 50m: Lg Bi. -09d 23h 37m: Co PM Hr (bs: Bi). -13d 10h 14m: Mo H1 Hb Od Pe Te (ssc: Tf TC; bs: Ir). -13d 11h 36m: Es (ssc: H1). -22d 08h 02m: Te Mc Bi (ssc: Ir Tf TC). -22d 14h 14m: Mo Es V1 Pr (sfe: Hu). -24d 10h 38m: H1 Ae.

1966 May 11d 12h 18m: Wn Be Pr Od Su Hr (ssc:Tf TC; sfe: Ir Lg Tl). -19d 20h 04m: St Wn Be Pr Fu Hb Tn (ssc: So SF; bp: Eb; bps: Vl Mc Hr; pi2: MB; pc4: Wi). -20d 21h 35m: Lg (bs: Hl). -23d 18h 17m: Hl (sfe: Hu?). -26d 08h 35m: Es Te. -26d 09h 38m: Co Te Am (ssc: Si). -26d 10h 18m: Es Wn Db Pr CF Od Ho Te Ap (ssc: So Wi; bps: Mo). -26d 12h 09m: CF Te (bps: Ir). -26d 14h 15m: CF Hb Od Mb Ci Ka Ky Ho Te (bps: Ir). -31d 15h 07m: Od Bi (ssc: TC).

1966 June 01d 06h 44m: Vl CF Te (bp: Ir). -02d 03h 53m: Hl Be. -02d 09h 00m: Mb Tk Ka Ky (ssc: Od Ks; sfe: Ir). -02d 09h 25m: Mo Te (sfe: Ir). -02d 11h 36m: Mo Mb Ka Ky (ssc: Tf). -02d 14h 34m: Mo Lg Tl Ae (pg: Es). -03d 18h 22m: Tn (ssc: Tf). -05d 01h 12m: Hl Tl. -05d 02h 46m: Co Tl Ae (pi2: CF Bi). -09d 11h 47m: St Vl Ae. -16d 00h 01m: twenty-nine (si: 20 [A:4; B:14; C:2]; ssc: 2; bs: 6; sfe: Sw). -23d 11h 32m: eighteen (si: 11 [A:3; B:5; C:3]; ssc: 6; sfe: Ir). -23d 13h 46m: Es Wn Pr CF Hb? (ssc: Tf). -23d 22h 31m: Fr Te (b: Gu; sfe: Tl). -24d 09h 11m: Mb Ka Ky Te PM (ssc: Tf TC). -24d 17h 19m: eighteen (si: 15 [A:3; B:6; C:6]; ssc: 3).

1966 July 08d 05h 29m:Si (pg: Db). -08d 07h 31m: Te Mc Hr (ssc: UB; bps: Ir). -08d 23h 03m: Mo Hb Te (sfe: Ir). -09d 05h 13m: ten [A:2; B:7; c:1]. -09d 07h 51m: Wn Pr. -10d 15h 41m: Ks Bi. -12d 20h 03m: Co Lg. -15d 21h 31m: Mo Ma Od Lg Te Tn (ssc: Tf; bp: Kv?; sfe: Ir). -15d 22h 23m: Te (ssc: Ta). -15d 23h 08m: thirty-three (si: 30 [A:11; B:14; C:5]; ssc: 2; bp: 1). -19d 14h 01m: Lg Ae. -20d 08h 00m: So Le Wn Vl Ae Te (bp: PM; bps: Bi; sfe: Ir Ma). -21d 08h 25m: Vl Bi. -27d 14h 43m: CF Te. -29d 15h 57m: Wn Vl Fu Lg Eb (ssc: So Ma).

1966 August 01d 00h 03m: thirty-five (si: 19 [A:8; B:10; C:1]; ssc: 7; bs: 8; sfe: Gn). -03d 11h 34m: Es Ma Tl. -08d 07h 38m: Bi Tn (ssc: Lg Gu; b: Hu). -09d 17h 51m: Tk (ssc: Tf). -10d 01h 50m: thirty-five (si: 28 [A:12; B:10; C:6]; ssc: 1; bs: 3; bps: 1; pi2: 2). -11d 12h 30m: Mo Tl Ae. -18d 11h 59m: Le Wn Pr Hb (ssc: Ma). -18d 12h 12m: Le Tl PM (ssc: Ae; bp: Ir). -18d 17h 26m: twelve (si: 11 [A:2; B:6; C:3]; ssc: 1). -23d 13h 48m: Le (ssc: Tf). -23d 14h 18m: Le Mo Hb?. -24d 14h 25m: Le Tl Ae (ssc: Tf SF). -29d 22h 19m: Ho Ta Te Mc. -30d 16h 35m: Es Ac. -30d 19h 59m: Le Es (bp: Ir). -30d 23h 08m: CF Te Gu. -31d 00h 46m: Te Gu (ssc: Vi Am). -31d 01h 34m: Vi CF Te Gu. -31d 02h 07m: Te Gu. -31d 02h 56m: Te Gu. -31d 06h 28m: So Mo Ir CF Te (ssc: Tf). -31d 08h 19m: Ir (ssc: Tf). -31d 09h 28m: Mo Od Lg (sfe: Ir). -31d 13h 33m: Le Mo Ir Vl CF Lg Tl (ssc: Ma Tf). -31d 13h 46m: nineteen (si:17 [A:9; B:8]; ssc: 2). -31d 18h 06m: Ir Te.

1966 September 01d 12h 12m: Ni Vl Ma Lg Eb Tl Ae (ssc: SF). -01d 11h 46m: Ma Mc (bps: Bi). -01d 15h 24m: twelve (si: 11 [A:4; B:7]; ssc: 1). -01d 04h 34m: IK Te Ac. -02d 16h 38m: Le Ac. -02d 18h 06m: Le Es Ma CF MB Ac. -02d 22h 43m: Te Gu (pc5: Fr). -03d 11h 37m: Mb Ky (si: Te). -03d 12h 29m: Ta Mc. -03d 21h 14m: Co CF Lg IK Tl Ta Ho Mc (ssc: Vi Te). -04d 06h 35m: Te (ssc: Vi). -06d 07h 31m: Le Wn Vl Pr CF Ae. -06d 07h 52m: Vl Ma CF Lg. -06d 08h 24m: Mb Ka Ky Te Ac. -20d 13h 44m: Le Es Wn Ni Ma Pr Hb? Bi (sfe: Ks). -24d 06h 24m: Te Bi. -24d 15h 28m: Es Hb. -24d 16h 51m: Es Ma CF Ci Tl Ae Ky Ta Te. -24d 17h 30m: Es Ma. -24d 18h 05m: seventeen [A:5; B:9; C:3]. -26d 12h 41m: Es Lg (ssc: Vl; sfe: Hu). -

27d 10h 22m: seventeen (si: 11 [A:3; B:5; C:3]; ssc: 6). -27d 10h 58m: V1 Mc Tn (ssc: CF). -27d 13h 13m: V1 CF. -27d 14h 26m: V1 Mb Te Ac. - 27d 15h 17m: eleven [A:3; B:8].

Preliminary report on solar-flare effects (s.f.e.)

Effects confirmed by ionospheric or solar observations are underlined.

1966 January 14d 08h 28m: Ir (si:TC). -17d 14h 53m: Hu (ssc: Tf). - 19d 16h 39m: Hu (bp: Eb). -20d 00h 23m: Mb Ka Ky. -27d 14h 48m - 14h 54m: Hu. -28d 13h 20m: Od.

1966 February 02d 15h 44m - 16h 00m: Hu. -07d 09h 59m: Od. -07d 15h 13m - 15h 21m: Od SM Hu. -09d 11h 04m - 11h 26m: Tn. -18d 20h 34m: Od Hu. -26d 14h 20m: Od. -27d 03h 10m: Od. -27d 18h 50m - 19h 02m: Ks. - 28d 03h 50m - 04h 10m: Mb Ka Ky PM. -28d 14h 50m - 15h 07m: Hu.

1966 March 01d 09h 55m: Od. -06d 12h 23m: Tk (b: AK). -16d 09h 12m: Hr. -17d 06h 42m: Od. -19d 03h 40m: Mb Ka Ky. -20d 09h 54m - 10h 18m: Wn Wi Cm Pr CF Aq Tk Eb Ci Tl Pe Ks Tn Hr (ssc: Ma Su Tf SF TC; si: Nu Mo Es St V1 Hb Od Lg Ae TI Mc Bi). -24d 02h 28m - 02h 33m: Mb Ka Ky Gn (ssc: PM; b: Ir). - 24d 09h 56m - 10h 00m: Tn. -25d 10h 05m - 10h 13m: Wn Pr Eb Hr (ssc: SF; si: Hb?). -28d 08h 20m: Tk. -29d 03h 27m - 03h 40m: Mb Ka Ky Gn (si: Ir; bp: Te To). -29d 09h 49m: Eb Hr. -29d 10h 55m: Tn Eb Hr. -30d 10h 07m: Od. -30d 12h 46m - 13h 41m: Le Wn? Wi V1 Pr Aq IK Eb Tl Pe Ks Tn Hr (si: Od SF TC Mc Bi; b: Es; bps: Ae).

1966 April 02d 11h 35m: Le Eb Tn Hr (si: Mc Bi Lu). -04d 13h 59m - 14h 12m: Hu. -06d 15h 43m - 16h 00m: Hu (ssc: Tf; si: TC; b: SJ?). -09d 19h 09m - 19h 14m: Hu. -11d 10h 02m - 10h 10m: Eb Hr. -11d 13h 06m - 13h 20m: Hu. -12d 17h 18m - 17h 39m: Eb Fr Te Hu (ssc: SJ MB?; si: Ag SM).

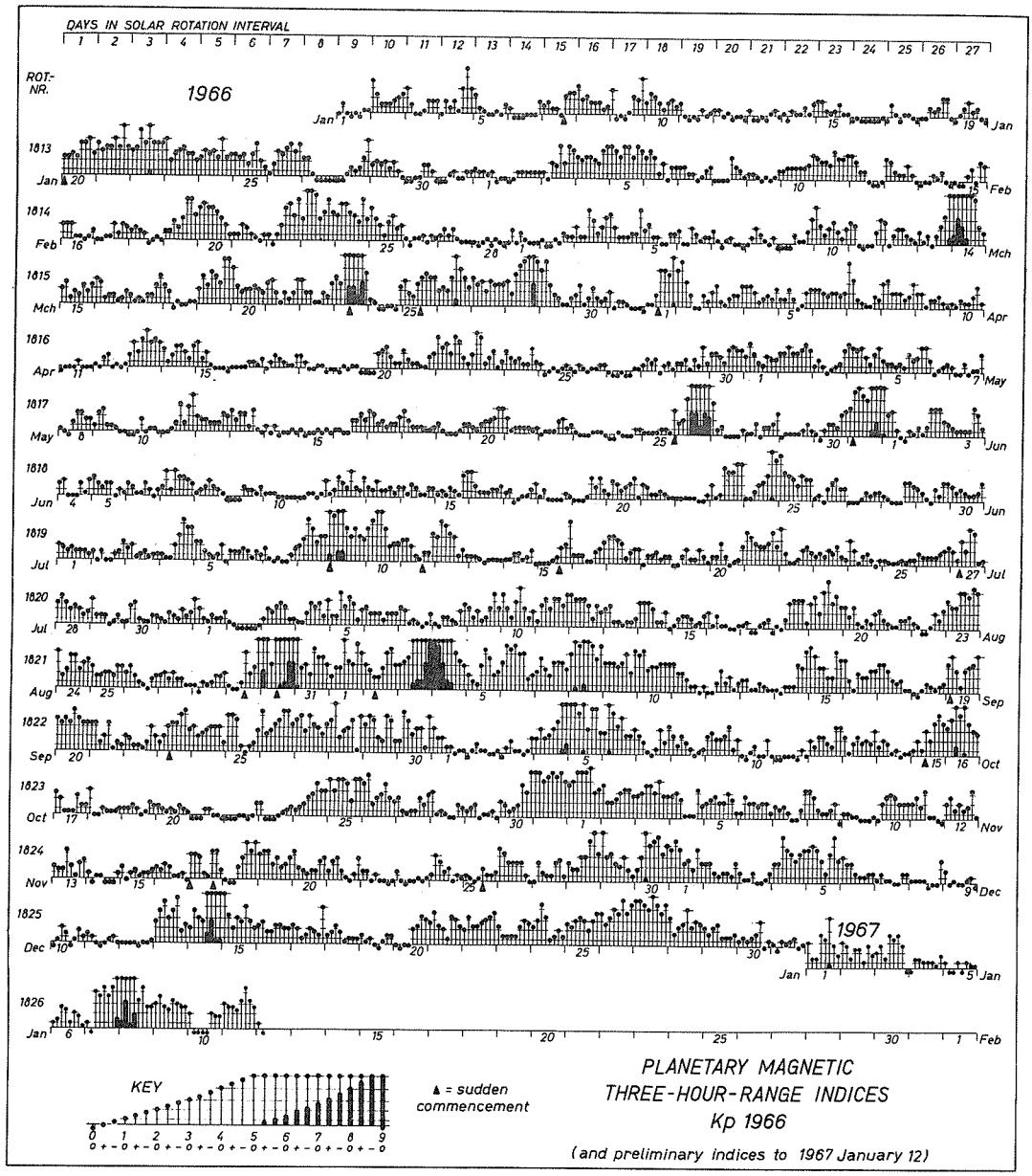
1966 May 01d 16h 08m - 16h 20m: (ssc: Hb?). -02d 08h 31m: Ir (pi2: Bi). -08d 13h 34m - 13h 50m: Hu. -21d 01h 44m: Ir. -21d 10h 36m: Tn. - 21d 14h 30m - 14h 40m: Hu. -25d 10h 35m - 10h 58m: So. -27d 06h 35m: Ir.

1966 June 06d 12h 56m - 13h 11m: T1 Hu. -11d 17h 09m - 17h 23m: Hu. - 13d 15h 20m - 15h 38m: Hu. -14d 07h 50m: Od (bp: Hu). -18d 01h 05m: Od (si: H1). -21d 04h 54m - 05h 05m: Tn. -21d 09h 33m: Od (si: So). - 24d 10h 05m: Ir.

1966 July 06d 14h 16m - 14h 28m: Hu. -07d 00h 26m: Mb Ka Ky (ssc: Gu). -08d 12h 43m - 13h 02m: Ir Hu (si: Ae). -09d 02h 50m: Ir (si: Mo). - 09d 03h 39m: Ir (si: Te). -12d 14h 12m: Ir. -16d 09h 18m: Ir. -17d 03h 12m: Ir. -24d 09h 50m - 09h 56m: IK. -25d 04h 58m: Ky. -27d 13h 44m: Ir.

1966 August 05d 08h 03m: Ir. -07d 12h 44m - 13h 06m: IK. -09d 06h 27m: Ir. -10d 14h 50m - 15h 07m: Hu. -28d 15h 24m - 16h 10m: Le? Es Wn Wi V1 Ma Db Pr CF Hb Aq Eb Fr Pe SJ Hr (ssc: Tf Ae Hu; si: Ci SF Tu Ac; b: Te; bps: Tw).

1966 September 02d 05h 50m - 06h 42m?: Wn Wi Ni Vl Pr Hb Mb Eb? Ka Ky Hr (ssc: Ma Tl Ae; si: Mc Bi Tn?). -05d 20h 42m - 20h 59m: Hu (ssc: Bi; b: IK). -10d 14h 31m - 14h 50m: Hu. -12d 09h 28m - 11h 00m: Ni. -12d 09h 42m: Hr. -12d 11h 35m: Ma. -14d 10h 13m - 10h 37m: Es Wn Ni Pr Hb IK Eb Hr (ssc: Lg Mc Bi; si: Tn). -15d 14h 38m - 14h 50m: Hu. -16d 16h 30m - 16h 50m: Hu (bp: Vl). -18d 14h 54m - 15h 15m: Es Wn Ni Vl Ma Pr Hb Eb Tl Fr Ae SJ MB Bi Hr (ssc: SF). -19d 12h 07m -12h 38m: Es Wn Ni Hb Eb? Hr (si: Mc; bp: Bi). -21d 09h 31m - 09h 47m: Es Wn Wi Ni Vl Ma Pr Hb Eb Bi Hr (si: Mc; bs: Nu). -25d 16h 40m - 16h 57m: Hu.


DAYS IN SOLAR ROTATION INTERVAL
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
ROT-NR.
1966
1967
1813
1814
1815
1816
1817
1818
1819
1820
1821
1822
1823
1824
1825
1826
Jan
Feb
Mch
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
KEY
0 1 2 3 4 5 6 7 8 9
0+ -0 +- 0+ -0 +- 0+ -0 +- 0+ -0 +- 0+ -0
▲ = sudden commencement
PLANETARY MAGNETIC
THREE-HOUR-RANGE INDICES
Kp 1966
(and preliminary indices to 1967 January 12)

DAILY GEOMAGNETIC CHARACTER FIGURES C9 AND SUNSPOT NUMBERS R

R	Rot.-Nr.	1st day	C9
779 987 778	19	J 13	..2 2,. 2.7766 533 ,56 3,2 366 2,2 ¦ 2,2 472
878 778 888		F 9	2,2 472 323 454 6567 2. ,.4 864 442 ¦ 447 222
988 878 888	57	M 8	447 222 .36 433 455 536 477 755 545 · 566 .36
887 899 999	1694	A 4	566 .36 743 3.5 477 744 .36 255 543 ¦ 433 223
778 999 998	95	M 1	433 223 335 32, 3,, ,,343 ,2, 362 ¦ ,,6 2,,
888 888 999	96	M28	,,6 2,, 666 622 ... ,2, 5,4 564 442 ¦ 477 45,
999 998 799	1697	J24	477 45, 977 637 422 ,,, 2.,,42 363 ¦ ,63 3,.
998 888 778	98	J21	,63 3,. 2,3 ,2, 263 362 242 ,56 22, · .23 35.
987 999 899	99	A17	.23 35. ..., 253 666 688 986 3,4 2,2 ¦ 964 333
999 999 999	1700	S 13	964 333 ,,7 896 52. 287 535 33. ..2 ¦ 554 673
999 999 999	01	O 10	554 673 .2, 236 552 223 454 222 3.. ¦ 565 665
999 999 999	02	N 6	565 665 435 53, 623 .,2 367 764 364 ¦ 326 653
998 899 999	03	D 3	326 653 557 652 545 355 4,. ,45 ,,, · 577 5..
999 999 998	04	D30	577 5.. ,2, ,32 344 444 563 565 535 ¦ 422 422
878 888 888	19	J26	422 422 22, 466 665 597 552 466 666 ¦ 652 ,,2
887 999 888		F22	652 ,,2 4,, 566 665 555 775 546 676 ¦ 655 666
899 999 987	58	M21	655 666 443 655 656 654 22, 2,, 566 ¦ 776 44,
899 999 988	1708	A 17	776 44, 243 336 665 3,2 32, 335 246 · 664 453
778 989 999	09	M14	664 453 ,,, ..2 665 737 76, ,24 746 ¦ 654 245
987 799 999	1710	J 10	654 245 3,, 227 645 422 782 4,4 53, ¦ 497 445
998 899 999	11	J 7	497 445 44, ,46 657 5,5 536 323 443 ¦ 3,, ,3,
999 998 899	12	A 3	3,, ,3, 244 33, 237 53, ,64 754 733 ¦ 2,, ,78
999 999 988	13	A30	2,, ,787 ,4 563 ,,, ,,74. ,,, ,,7 · 622 ,54
999 877 899	14	S26	622 ,54 35, 334 3,. ,,, ,22 222 ,,7 ¦ 773 366
989 986 665	15	O 23	773 366 553 ,43 2.. ,.. 342 ,,, 222 ¦ ,.. ..2
689 999 999	16	N19	,.. .,2 322 53. .52 763 ,33 .2, 753 ¦ 466 542
768 999 999	1717	D 16	466 542 23, ,33 423 2.. ,,6 655 674 ¦ 322 245
989 999 887	19	J 12	322 245 53. .,2 .55 224 343 556 653 · 35, 655
678 889 988		F 8	35, 655 667 5,3 .,4 4.7 767 765 43, ¦ ,3. .,5
889 999 999	59	M 7	,3. .,5 32, .,2 ,,, ,32 679 775 53, ¦ 3,, ,25
879 987 898	1721	A 3	3,, ,25 785 323 2,2 ,,, 2.7 655 436 ¦ 522 ,46
778 999 988	22	A30	522 ,46 .,6 446 84, 664 543 343 762 ¦ ,.. ,52
888 999 898	23	M27	,.. ,52 545 432 353 6,. 22, ,22 223 · 46, 466
998 877 899	24	J 23	46, 466 76, 4,4 434 453 763 497 886 ¦ 544 366
778 999 988	25	J 20	544 366 663 2.4 545 525 445 42, ,,6 ¦ 886 566
899 999 988	26	A 16	886 566 665 42, .32 256 686 523 ,24 ¦ 445 545
877 886 577	27	S 12	445 545 667 776 565 552 375 776 742 ¦ ,.. ,.3
667 778 787	28	O 9	,,, , 34 4642 ,52 ,563 ., 667 776 · 653 323
788 755 888	29	N 5	653 323 ,,36 ,2 343 ,44 622 447 476 ¦ 673 74,
887 577 877	30	D 2	673 74, ,2, ,45 764 234 ., 642 667 ¦ 54, ,,,
878 877 768	1731	D29	54, ,,, 352 ,,, 764 376 ,45 247 555 ¦ 2,2 ,3
999 878 764	19	J25	2,2 ,3. .24 555 5,3 ,,2 ,36 265 655 ¦ 532 ..,
566 557 666		F21	532 ..., 5,4 555 443 .33 562 ,25 753 · 3.2 ,,4
788 888 778	60	M19	3.2 ,,4 ,,, 455 897 766 454 466 664 ¦ 666 5..
877 666 678	1735	A 15	666 5.. .,4 775 677 974 2,3 778 437 ¦ 534 274
777 788 777	36	M12	534 274 ,,, ,,6 655 457 536 ,27 664 ¦ 65, ,,,
788 645 789	37	J 8	65, ,,, 43, 244 243 336 576 676 445 ¦ 43, ..2
876 788 766	38	J 5	43, ..2 333 687 646 633 22. 2,, 666 · 45, ,.,
425 899 987	39	A 1	45, ,., 245 455 242 784 566 42, ..4 ¦ 477 4.5
675 788 889	1740	A28	477 4.5 688 665 444 354 ..2 4., 224 ¦ 6,2 4,4
863 478 766	41	S24	6,2 4,4 677 466 996 634 ... 4,, 633 ¦ 2.. 577
555 556 877	42	O 21	2.. 577 676 663 457 3,, ,,, 579 778 ¦ 5,, 276
654 457 666	43	N17	5,, 276 346 455 248 62, 356 552 254 · ,76 264
764 357 754	1744	D 14	,76 264 565 442 475 544 2., ,,, 256 ¦ ,., 2,5
324 433 545	19	J10	,,, 2,5 324 675 5,5 532 32. ... 376 ¦ 532 2.2
442 224 423		F 6	532 2.2 .52 266 756 553 2.. 232 2, ¦ 46. ,47
332 444 566	61	M 5	46. ,47 ,,2 665 436 433 22, 254 ,3, ¦ 446 ,,2
564 435 435	1748	A 1	446 ,,2 2,6 563 477 4,, 22. 223 243 · 2,2 45.
663 343 345	49	A28	2,2 45. 256 534 254 53. 62. 24, 342 ¦ 62, 3,2
433 435 577	1750	M25	62, 3,2 566 322 454 ,.. 2., 33, 423 ¦ 772 ,2,
754 544 566	51	J21	772 ,2, 2,6 .23 447 442 242 ,88 656 ¦ 855 634
655 332 ,47	52	J18	855 634 345 852 2,2 755 2,. 4.3 5,. ¦ 22, ,,2
753 334 443	53	A14	22, ,,2 ,,, ..2 32, 466 633 ,3, ..2 · ,34 26,
476 445 444	54	S10	,34 26, 232 .2. ,,7 656 ,68 ,,, ,,, ¦ ,,, .35
454 342 ,,,	55	O 7	,,, .35 4,. .., ,52 ,,, 266 86, ,,, ¦ ,,5 475
,35 43, 223	56	N 3	,,5 475 3,. 4.3 ..4 733 2.. ,,, ,,. ¦ .77 723
553 ,,, ,36	57	N30	.77 723 4.. ,4 ,,, ,,, ,,, ,32 .. ¦ 254 42,
532 ,,, 224	1758	D 27	254 42, 2.. ..., 7 3,, 323 ..4 .2. · .,23
665 532 ,22	19	J 23	.., 23 .,2 .,. 5,, 5., 35 443 64, ¦ ..2 432
477 643 ,.2		F 19	..2 432 244 .22 2,4 62. 33 42, 2.. ¦ 243 4.,
465 332 2,3	62	M 18	243 4., ,2. ..2 ,3 243 267 636 52, · .22 232
655 433 433	1762	A 14	.22 232 356 3.3 322 ,,2 2,. .52 ,,, ¦ 2.3 442
322 454 432	63	M11	2.3 442 ..3 ,.. ... .3, ,5 2,, 323 ¦ 2.5 4,2
333 543 333	64	J 7	2.5 4,2 ,23 ,.. ,.3 34, ,25 444 222 ¦ 543 23,
222 222 2,,	65	J 4	543 23, 222 32, ... 343 224 476 52, ¦ 363 3,2
,,, ,24 332	66	J31	363 3,2 556 53. .,2 555 54, ,64 542 · ,,4 466
,35 544 422	67	A27	,,4 466 676 454 433 275 342 2,6 435 ¦ 4,, 622
444 223 553	68	S23	4,, 622 547 533 343 665 623 635 246 ¦ 345 566
333 22, 224	69	O 20	345 566 665 342 244 5,5 42, .3. .,6 ¦ 62. ..5
53, 2,3 43,	1770	N16	62. ..5 654 5,2 226 2.. 42. ,,, ,63 ¦ 433 ,67
2,3 2,, 23,	71	D 13	433 ,67 765 3.. .4, ,,. 3,. .2. ,,. · ,,, ,66
,23 2,, 223	19	J 9	.., 66 665 45, .,2 32. .., 674 ... ¦ ... .27
43, 222 2,,		F 5	... .27 556 52, ... 2,, ,.. ,,, 4,2 ¦ .., 265
232 2,, 2,,	63	M 4	.., 265 753 2.. .,2 ,.3 ,.. ., ¦ .3. ,56
224 444 2,.	1775	M31	.3. ,56 542 2.. 234 4,, 432 .32 .., ¦ 2.. 566
,22 444 553	76	A27	2.. 566 452 2,3 445 253 ,., ,2, .. · 2, 245
223 225 642	77	M24	.2, 245 323 3,, 47 32, ,,, ,2. 253 ¦ 32, .,5
,22 22, ,,2	78	J 20	32, .,5 643 23, ..4 553 343 ,,, ..2 ¦ 42, ,63
,22 244 42,	79	J 17	42, .63 563 44, .65 442 333 2,2 2., ¦ ..2 ,26
,23 422 232	1780	A 13	..2 ,26 676 252 224 643 442 2,2 2,4 ¦ 425 427
236 552 ,,,	81	S 9	425 427 667 464 787 576 675 3.. ..,2 · ,34 ,25
233 433 434	82	O 6	,34 ,25 666 44, ,,4 2.. 742 ..7 6,2 ¦ 44, .36
32, ,,2 232	83	N 2	44, .36 766 44, ... 4.. .., 254 ..., ¦ 25, 366
222 22, ,,,	84	N29	25, 366 654 42 ..2 32, .., 533 42. ¦ ,34 ,.
,., ,22 22,	1785	D 26	,34 ,. ,755 2, ,,5 52, ... 642 ,,. ¦ ..3 4,.
,,2 ,., ,,2	19	J22	..3 4,. 253 632 .33 645 42. 462 232 · .36 454
,33 32, ,,3		F18	.36 454 2.4 622 ..2 764 352 .24 233 ¦ 23. .23
2,2 2,, ,,,	64	M16	23. .23 665 43. ..6 .76 533 ,34 2,4 ¦ .,. 224
,,, 2,. ,,,	1789	A 12	.,. 224 554 2.. .33 664 353 ,.2 ... ¦ .55 .56
,,2 ,,, ,,,	1790	M 9	.55 .56 652 ,,. ,,, 56, 32, ,.. ,,, ¦ .., 227
,,2 22, ..,	91	J 5	.., 227 632 ,,. .2, 43, ,,3 ,,3 ,.. · 52, ,5
,,. .,, ...	92	J 2	.52 ,,5 543 ,,, ..2 564 2,2 ,.. ... ¦ 442 ,,,
,,, ,,2 2,.	93	J29	442 ,,, 64, 3.2 .64 ... ,,, ,,, ... ¦ 232 ,,.
..., ,,2 ,.	94	A25	232 .,. 352 22, 365 42, ... 42, ,.. ¦ ,72 2,.
..., ,2 ,..	95	S21	,72 2,. ,6, 52. 365 344 4.. 422 ,,, ¦ 363 4..
,., ,,, ,,,	96	O 18	363 4.. ,,5 ,,, ..4 3,2 2,, 253 ,2. · .32 ,,.
,,2 ,,. ..,	97	N14	.32 ,,, .., 5. .3.3 .32 ,., ..3 ,,. ¦ ..2 ,24
,,2 222 222	1798	D 11	..2 ,24 4,2 ... ... .32 ... ¦ ,42 ,.3
2,, ,22 22,	19	J 7	,42 ,.3 3,, .3, ,23 52. ... ,,, ,,, ¦ ,3, 464
,22 2,, ,22		F 3	,3, 464 333 .33 ,.. 4,5 342 2,, ¦ 265 ,,,
,2, ,,2 ,,,	65	M 2	265 ,,, ...2 ,3. ... ,22 635 42, · ... ...
,.. .,2 ,,,	1802	M29	,.. ... ,.2 2.3 ,2, ,,. .37 43. ,,, ¦ ,,. ,,,
,,, ,,, 245	03	A25	,,, ,,, ..6 ,,33 2., ... 5, ... ¦ ,,, ,,
42. ,32 ,,,	04	M22	,,, ... ,,, 23, ,.2 3., .., 576 ¦ 3.. ...
2,, 22, 232	05	J 18	3.. ... .33 ,.3 43, ,.. 525 34. ,,, ¦ 2.. ,3,
,.. ,,, ,,2	06	J 15	2.. ,3, ,,4 2,. 243 .., 3,, ... ,,, ¦ ,,. 2,2
,,, ,,, 222	07	A 11	,,. 2,2 356 43, 243 2,. ,23 ,,. 422 ¦ 2.. .,3
22, ,,, 234	08	S 7	2.. .3 ,.4 654 4,, ,22 325 6,. .4. · .2. ,4.
4,, ,,, 22,	09	O 4	.2. ,4. .., 2, ... 454 3,, 4,2 ¦ ,,, .24
2,3 3,, ,,,	1810	O 31	,,, .24 42. ,.. .2. .., 34 2,. ,,. · ..3 52
,,, ,,, 22,	11	N27	..3 52 .3. ... ,23 2,. ... 32, ,., ¦ 235 342
,43 2,, ,34	12	D 24	235 342 ... 2,3 .., 22, ... ,,. ..., ¦ 456 443
432 2,2 ,,2	19	J20	456 443 4., ,,. ..3 352 ,.. 23, ,.. · ,.. 44.
234 32, ,,,		F 16	... 44. 465 3.. ... 22, ...2, ,47 ¦ 2,, .52
244 224 544	66	M15	2,, .52 227 .45 373 ,53 ,2 ,23 3,, · ..4 2,.
223 353 442	1816	A 11	..4 2,. ... ,,4 3,. .., 32 3,3 ,2. ¦ ,,. 2,2
,24 355 545	17	M 8	,,. 2,2 .., ,,, 2.. ,7,, ,7 332 ¦ ,,. 2..
433 222 222	18	J 4	,,. 2.. .2, ,,, ... ,,, ,44 4. ,,, · ,,4 ,,
445 434 455	19	J 1	,,, 4,, .56 624 ..2 ,3, ,,4 2,, ,., 3 ¦ 2,, ,,.
554 2,3 323	1820	J28	2,, ,,. ,23 ,,, 234 4,2 ... 35, ,5 ¦ 42, ,.4
665 233 335	21	A24	42, ,.4 755 488 364 755 2.. 352 2.4 ¦ 52, 433
653 343 455	22	S20	52, 433 555 44, ..6 652 ,2. .22 .46 ¦ ,,, ...
564 323 245	23	O 17	,,, ... .35 4,. .36 644 22, ,.. 2,2 · 2.. ,33
545 553 355	24	N13	2.. ,33 32, ..., 3, 546 4. 552 .. ¦ ... 575
776 3356	25	D 10	... 575 22, ,,3 423 466 42, .42 3.. .67 4.4

For explanation and previous years see J. Bartels:
„Abhandlungen der Akademie der Wissenschaften, Göttingen,
Beiträge zum I.G.J., Heft 3 (1958)"
(may be requested from Geophysikalisches Institut,
Herzberger Landstrasse 180, 34 Göttingen (Germany).

Symbol	.	,	2	3	4	5	6	7	8	█
R =	0	1–15	16–30	31–45	46–60	61–80	81–100	101–130	131–170	171
C9 =	0	1	2	3	4	5	6	7	8	9
Cp =	0.0–0.1	0.2–0.3	0.4–0.5	0.6–0.7	0.8–0.9	1.0–1.1	1.2–1.4	1.5–1.8	1.9	2.0–2.5
Ap =	0–4	5–7	8–10	11–13	14–17	18–24	25–40	41–91	92–140	141–400

PRINCIPAL MAGNETIC STORMS

JULY, AUGUST 1966

DATE 1966 MO. DA.	STORM TIME UT START	STORM TIME UT END MO. DA. HR.	OBS.	GEO-MAG. LAT.	SUDDEN COMMENCEMENT TYPE	AMPLITUDES D(')	AMPLITUDES H(γ)	AMPLITUDES Z(γ)	C FIGURE DEGREE OF ACTIVITY	MAXIMAL ACTIVITY ON K-SCALE 0 TO 9 MO. DA.	3-HOUR PERIOD	K INDEX	RANGES D (')	RANGES H (γ)	RANGES Z (γ)	STORM NUMBERS
07 07	2325	07 08 13	IRKU	40.8N	SC	- 0.4	+ 4	+ 2	M	07 08	3	5	19	76	42	50
										07 09	1,2,3	5				50
07 08	02--	07 11 08	COLL	64.6N	..	..	..	..	MS	07 10	4	7	251	1610	1380	50
	21--	07 11 07	SITK	60.0N	..	..	..	..	S	07 09	3	8	110	1455	660	50
	2103	07 09 10	FRED	49.6N	SC	- 1	+49	- 3	M	07 08	8,2,3	5	22	169	119	50
	2103	07 10 17	IRKU	40.8N	SC	- 0.6	+20	+ 3	M	07 10	2,3,4	5	20	144	68	50
	0000	07 12 10	TUCS	40.4N	..	..	..	..	MS	07 09	3	6	15	120	30	50
	2102	07 09 21	MBOR	21.3N	SC	- 0.6	+28	- 5	-	07 08	8	4	3	45	14	50
										07 09	1,2	4				50
	2101	07 09 22	HYDE	7.6N	SC	+ 0.4	+21	+ 1 *	M	-- --	-	-	7	113	44	50
	2102	07 11 06	BANG	04.8N	SC	--	+24	--	M	07 08	8	5	--	53	--	50
	2102	07 09 17	GUAM	04.0N	SC	+02	+10	+06	M	07 09	2,3	5	3	54	19	50
	21--	07 10 14	HRMN	33.3S	..	..	..	..	M	07 09	1,3	5	21	93	70	50
										07 10	2,4	5				50
	0200	07 10 15	TOOL	46.7S	..	..	..	..	MS	07 09	3	6	28	158	58	50
	2105	07 09 12	AMBE	47.7S	SC	0.5	9	--	MS	07 09	3	6	25	141	--	50
	2105	07 09 13	KGLN	57.3S	..	..	..	..	M	07 09	1,3	5	--	--	--	50
07 11	20--	07 12 16	COLL	64.6N	..	..	..	..	M	07 12	3,4,5	5	137	920	400	51
	1542	07 12 16	IRKU	40.8N	SC	- 0.4	+ 8	+ 1	M	07 12	2,4,5	4	14	81	40	51
	1542	07 12 12	MBOR	21.3N	SC	- 0.5	+ 5	--	-	07 11	8	3	--	--	--	51
07 15	1502	07 16 12	IRKU	40.8N	SC	- 0.5	+14	+ 3	M	07 15	8	4	14	64	17	52
	1459	07 16 02	MBOR	21.3N	SC *	+ 0.2	+10	- 6	-	07 15	8	4	--	--	--	52
						0.6										52
	1500	07 16 02	BANG	04.8N	SC	--	+ 8	--	M	07 15	8	4	--	41	--	52
	1500	07 16 07	BINZ	03.4S	SC	+ 0.3	+ 6	- 1	M	07 15	8	4	4	44	18	52
	1501	-- -- --	KGLN	57.3S	SC	--	--	--	M	07 15	7	3	--	--	--	52
07 27	0603	07 28 18	COLL	64.6N	SC *	-11	+84	-29	M	07 27	5	5	84	650	370	53
										07 28	4					53
	0603	07 27 19	IRKU	40.8N	SC	- 1.2	+28	+ 5	M	07 27	3,5,6	4	12	53	25	53
	0600	07 27 21	MBOR	21.3N	SC	--	+12	--	-	07 27	5,6	4	--	--	--	53
	0604	07 27 23	ALIB	09.5N	SC	- 0.4	+21	- 5	M	07 27	3,5,6	4	4	105	27	53
	0602	07 27 19	HYDE	7.6N	SC	- 0.4	+23	- 3	M	-- --	-	-	3	105	16	53
	0603	07 27 18	BANG	04.8N	SC	--	+24	--	M	07 27	5,6	4	--	39	--	53
	0604	07 27 23	ANNA	01.5N	SC *	- 0.9	+38 *	+10	M	-- --	-	-	2	150	33	53
	0603	07 27 18	HUAN	0.6S	SC	+ 1	24	4	M	07 27	5,6	5	3	144	20	53
	0604	07 27 23	TVAN	01.1S	SC *	0.0	+47 *	+47 *	M	-- --	-	-	2	171	117	53
07 29	1315	-- -- --	PMOR	18.6S	SC	+ 4	+30	+26	MS	07 30	8	7	22	140	79	54
07 30	1110	-- -- --	PMOR	18.6S	SC	+ 7	+38	+33	-	-- --	-	-	--	--	--	55
08 04	0902	08 05 18	COLL	64.6N	SC *	-14	+26	-33	MS	08 04	5,6	6	134	1150	400	56
08 10	01--	08 10 18	COLL	64.6N	..	..	..	..	MS	08 10	5	6	39	790	350	57
08 11	03--	08 12 15	COLL	64.6N	..	..	..	..	MS	08 11	3	6	103	760	430	58
										08 12	4					58
	1205	08 12 04	KGLN	57.3S	SC	--	--	--	M	08 11	5,6,8		--	--	-	58
										08 12	2	3				58
08 18	0907	08 20 10	COLL	64.6N	SC *	--	--	--	MS	08 19	4	6	99	1050	460	59
	07--	08 19 22	IRKU	40.8N	..	..	..	..	M	08 19	4,5	5	19	102	44	59
	0620	08 20 08	HYDE	7.6N	..	..	..	..	M	-- --	-	-	8	164	15	59
	0625U	08 20 03	BANG	04.8N	SC	--	+ 7	--	M	08 19	4,5	4	--	51	--	59
08 22	14--	08 25 14	COLL	64.6N	..	..	..	..	MS	08 23	4	6	84	780	390	60
	1215	08 24 23	HYDE	7.6N	..	..	..	..	M	-- --	-	-	7	128	20	60
	2328U	08 25 02	BANG	04.8N	SC	--	+ 7	--	M	08 23	6,7	5	--	51	--	60
	23--	08 24 03	HRMN	33.3S	..	..	..	..	M	08 23	6	5	12	107	64	60
08 23	07--	08 24 24	IRKU	40.8N	..	..	..	..	M	08 23	7	5	15	111	37	60
	0401	08 25 03	BINZ	03.4S	SC *	- 0.4	+ 8	0	M	08 23	4,6,7,8	4	8	112	--	60
										08 24	1	4				60
	1200	08 23 21	HUAN	0.6S	..	..	..	..	M	08 23	6	5	5	177	49	60
08 29	1314	09 02 05	COLL	64.6N	SC *	-15	+74	-38	MS	08 30	6	7	154	1550	770	61
	1315	09 01 20	SITK	60.0N	SC *	- *	+ *	+ *	MS	08 30	1,2	6	50	610	595	61
	1317	08 30 04	FRED	49.6N	SC *	+ 1	+18	- 3	MS	08 30	1	6	30	110	72	61
	1315	08 30 06	IRKU	40.8N	SC	+ 3.1	+51	+ 8	M	08 30	1,2	5	13	176	23	61
	1314	08 31 07	TUCS	40.4N	SC	+ 1	+30	--	MS	08 30	1,6,8	6	20	190	20	61
	1315	08 30 04	MBOR	21.3N	SC *	+ 1.0	+22	- 8	M	08 29	8	5	2	66	13	61
	1316	08 30 07	ALIB	09.5N	SC	- 0.6	+31	- 5	M	08 29	8	5	8	93	65	61
	1310	08 30 07	HYDE	7.6N	SC	- 0.4	+31	+ 1 *	M	-- --	-	-	7	102	28	61
	1315	08 30 05	BANG	04.8N	SC	--	+36	--	MS	08 29	8	6	--	83	--	61

PRINCIPAL MAGNETIC STORMS

AUGUST, SEPTEMBER 1966

DATE 1966 MO. DA.	STORM TIME UT START	STORM TIME UT END MO. DA. HR	OBS.	GEO-MAG. LAT.	SUDDEN COMMENCEMENT TYPE	AMPLITUDES D(')	AMPLITUDES H(γ)	AMPLITUDES Z(γ)	C FIGURE DEGREE OF ACTIVITY	MAXIMAL ACTIVITY ON K-SCALE 0 TO 9 MO. DA.	3-HOUR PERIOD	K INDEX	RANGES D (')	RANGES H (γ)	RANGES Z (γ)	STORM NUMBERS
08 29	1316	08 30 07	TVAN	01.1S	SC	+ 0.3	+28	+37	M	— —	—	—	5	133	69	61
	1316	08 30 07	ANNA	01.5N	SC	− 0.9	+36	+18	M	— —	—	—	5	109	49	61
	1315	08 30 06	BINZ	03.4S	SC	+ 1.3	+27	− 1	M	08 29	8	5	6	131	26	61
	1315	— — —	PMOR	18.6S	SC	4	30	6	MS	08 30	8	7	11	140	79	61
	1315	09 01 24	PILR	20.2S	SC	—	17	—	M	08 29	8	6	5	169	24	61
	1315	08 30 04	HRMN	33.3S	SC	+ 2	+14	+10	M	08 29	8	5	16	56	66	61
	1317	08 30 09	GNAN	43.2S	SC *	+ 2	+51 *	+ 9	M	08 29	8	5	17	82	91	61
	1317	08 30 04	AMBE	47.7S	SC *	1.1	36.3	—	M	08 29	5,8	3	11	114	—	61
	1310	08 30 04	KGLN	57.3S	SC	—	—	—	M	08 29	8	5	—	—	—	61
										08 30	1,2					61
08 30	1112	08 31 06	FRED	49.6N	SC *	+ 1	+13	− 3	MS	08 30	8	6	39	170	147	62
	1112	09 01 24	IRKU	40.8N	SC *	+ 3.0	+77	+15	MS	08 30	6,7,8	6	22	219	62	62
	1112	09 01 01	MBOR	21.3N	SC	− 1.6	+40	—	MS	08 30	8	6	5	140	22	62
	1112	09 01 00	ALIB	09.5N	SC	− 0.8	+31	−10	MS	08 30	6,7,8	6	10	142	61	62
	1112	09 02 00	HYDE	7.6N	SC	− 0.5	+31	+ 1 *	M	— —	—	—	10	138	41	62
	1115	09 01 03	BANG	04.8N	SC	—	+39	—	MS	08 30	6,7,8	7	—	158	—	62
	1111	08 31 24	GUAM	04.0N	SC	—	+30	−10	MS	08 30	8	7	2	124	23	62
	1112	09 01 00	ANNA	01.5N	SC	− 1.5	+44	+10	MS	— —	—	—	7	159	78	62
	1112	08 31 19	HUAN	0.6S	SC	2	13	4	MS	08 30	6,8	6	8	345	58	62
	1112	09 01 00	TVAN	01.1S	SC	− 0.5	+43	+48	MS	— —	—	—	7	190	145	62
	1050	09 02 05	BINZ	03.4S	SC *	+ 1.5	+42	− 4	MS	08 30	6	7	9	273	30	62
										08 31	1	4				62
	1112	08 31 19	APIA	16.1S	SC	—	+19	− 9	MS	08 31	8	6	4	118	93	62
	1112	08 31 24	HRMN	33.3S	SC *	+ 2	+29	+23	MS	08 30	6,7,8	6	31	163	164	62
	1114	08 31 19	GNAN	43.2S	SC	+ 1	+41	+14	MS	08 30	7,8	7	33	143	139	62
	1113	08 31 21	TOOL	46.7S	SC *	+ 2	+54	+ 8	MS	08 30	6,7,8	6	30	225	59	62
	1115	08 30 24	AMBE	47.7S	SC *	3.4	42.1	—	MS	08 30	6,7	6	24	184	—	62
	1110	08 31 03	KGLN	57.3S	SC	—	—	—	S	08 30	7,8	9	—	—	—	62
08 31	0049	08 31 17	AMBE	47.7S	SC *	1.3	33.1	—	M	08 31	1	4	7	97	—	62
09 01	07—	09 02 07	BANG	04.8N	••	••	••	••	M	09 01	7,8	5	—	53	—	63
	1205	09 02 03	KGLN	57.3S	••	••	••	••	MS	09 01	7	6	—	—	—	63
	0300	09 04 20	TOOL	46.7S	••	••	••	••	MS	09 03	8	7	46	338	149	63
09 02	0826	09 10 21	COLL	64.6N	SC *	− 4	+31	−14	MS	09 03	6,7,8	7	597	2410	1960	64
										09 04	2,3,5					64
										09 08	4					64
	08—	09 04 18	SITK	60.0N	••	••	••	••	S	09 04	3	9	255	2170	1115	64
	0823	09 04 14	FRED	49.6N	SC *	− 1	+ 8	− 2	S	09 04	1,2	8	69	397	505	64
	0824	09 06 18	IRKU	40.8N	SC *	− 0.8	+18	+ 4	MS	09 03	8	7	45	304	159	64
	0822	09 04 16	TUCS	40.4N	SC	+ 1	+ 8	+ 1	MS	09 03	8	7	37	250	100	64
										09 04	1	7				64
	0823	09 05 03	MBOR	21.3N	SC *	− 0.2	+11	—	MS	09 04	1,2	6	8	92	49	64
	0823	09 05 01	ALIB	09.5N	SC	− 0.4	+ 5	− 6	MS	09 04	1	7	14	226	83	64
	0823	09 05 04	HYDE	7.6N	SC	− 0.3	+ 8	− 0.4	MS	— —	—	—	13	248	54	64
	0824	— — —	BANG	04.8N	SC	—	+16	—	M	09 02	7	5	—	44	—	64
	0823	09 04 18	GUAM	04.0N	SC	—	+06	−02	MS	09 03	8	6	2	89	22	64
	0823	09 05 01	ANNA	01.5N	SC *	− 0.8	+13 *	+ 5	MS	— —	—	—	10	298	148	64
	0823	09 05 01	TVAN	01.1S	SC *	− 0.3	+17 *	+20 *	MS	— —	—	—	11	340	199	64
	0823	09 05 04	BINZ	03.4S	SC	+ 0.5	+13	− 1	MS	09 03	5	6	13	216	39	64
										09 04	2	6				64
	0823	09 04 17	APIA	16.1S	SC	—	—	—	MS	09 04	8	7	—	—	—	64
	1000	09 06 17	PMOR	18.6S	SC	0	6	5	MS	09 03	8	7	8	294	96	64
	0822	09 04 20	PILR	20.2S	SC	—	9	—	MS	09 04	1	7	20	293	49	64
	0823	09 04 23	HRMN	33.3S	SC	0	+ 7	+ 1	MS	09 04	1	7	40	187	148	64
	0824	09 04 14	GNAN	43.2S	SC *	+ 1	+ 6	+ 4	MS	09 03	7,8	7	29	346	121	64
										09 04	1	7				64
	0325	09 04 14	AMBE	47.7S	SC *	0.4	9	—	MS	09 03	8	6	38	274	—	64
										09 04	2,3,4	6				64
	0819	09 02 21	KGLN	57.3S	SC				M	09 02	7	4	—	—	—	64
09 03	1027	09 05 04	BANG	04.8N	SC *	—	+19	—	MS	09 03	7,8	7	—	136	—	64
	1130	09 04 19	HUAN	0.6S	••	••	••	••	MS	09 04	1,2	6	9	374	50	64
	0540	09 04 23	KGLN	57.3S	••	••	••	••	S	09 03	8	8	—	—	—	64
										09 04	1					64
09 05	2043	09 06 18	BINZ	03.4S	SC	− 0.2	+10	− 1	M	09 06	2,3	4	6	70	22	65
09 06	0303	09 06 16	FRED	49.6N	SC	+ 2	+70	−16	M	09 06	2	5	18	126	34	65
09 08	0243	09 09 12	FRED	49.6N	SC	+ 1	+ 5	− 1	M	09 08	2,3,4,8	5	24	97	78	66
	06—	09 08 24	IRKU	40.8N	••	••	••	••	MS	09 08	6	6	20	116	44	66
	03—	09 09 16	GNAN	43.2S	••	••	••	••	M	09 08	4,5,6	5	11	65	93	66
	0955	09 09 01	KGLN	57.3S	••	••	••	••	M	09 08	5,6	5	—	—	—	66
09 14	1510	09 16 05	COLL	64.6N	SC *	− 6	+62	−24	M	09 15	4	5	83	470	330	67
	1512	09 15 24	IRKU	40.8N	SC	− 1.0	+39	+ 5	M	09 14	6	5	12	111	28	67
	1010	09 15 11	BINZ	03.4S	SC	+ 0.2	+ 4	0	M	09 14	6	—	7	76	25	67
	1515	09 15 01	GNAN	43.2S	SC	+ 1	+ 5	+ 2	M	09 15	1	5	7	36	37	67
	1507	09 15 12	KGLN	57.3S	SC	—	—	—	M	09 14	8	5	—	—	—	67
										09 15	1					67

PRINCIPAL MAGNETIC STORMS

SEPTEMBER, OCTOBER 1966

DATE 1966 MO. DA.	STORM TIME UT START	STORM TIME UT END MO. DA. HR.	OBS	GEO-MAG. LAT.	SUDDEN COMMENCEMENT TYPE	AMPLITUDES D(′)	AMPLITUDES H(γ)	AMPLITUDES Z(γ)	C FIGURE DEGREE OF ACTIVITY	MAXIMAL ACTIVITY ON K-SCALE 0 TO 9 MO. DA.	3-HOUR PERIOD	K INDEX	RANGES D (′)	RANGES H (γ)	RANGES Z (γ)	STORM NUMBERS
09 18	2247	09 19 22	BINZ	03.4S	..	..	..	..	M	09 19	1	5	6	87	25	68
	2100	09 21 15	TOOL	46.7S	..	..	..	..	M	09 20	5	5	20	94	29	68
09 19	0251	09 20 01	BANG	04.8N	SC	—	+21	—	M	09 19	8	4	—	34	—	68
	0252	09 20 —	GNAN	43.2S	SC	+ 1	+ 8	+ 4	M	09 19	4	5	14	73	89	68
09 20	08—	09 20 22	COLL	64.6N	..	..	..	..	MS	09 20	5	7	133	1460	650	68
09 23	0856	09 24 19	COLL	64.6N	SC *	- 9	-63	-35	M	09 23	6,7	5	53	610	340	69
	0857	09 24 20	IRKU	40.8N	SC *	- 1.7	+48	+ 6	M	09 23	6,7	5	18	116	16	69
	0856	09 24 21	MBOR	21.3N	SC	—	—				-	-	—	—	—	69
	0858	09 24 23	ALIB	09.5N	SC	- 0.6	+29	- 8	M	09 23	6,7	5	5	132	40	69
	0856	09 25 11	HYDE	7.6N	SC	- 0.4	+29	- 1	M	— —	-	-	5	129	30	69
	0857	09 24 21	BANG	04.8N	SC	—	+41	—	MS	09 23	6,7	6	—	107	—	69
	0858	09 24 23	ANNA	01.5N	SC *	- 1.1	+41 *	+16	M	— —	-	-	4	168	60	69
	0857	09 23 22	HUAN	0.6S	SC	—	16	4	MS	09 23	5,6,7	5	4	259	28	69
	0858	09 24 23	TVAN	01.1S	SC *	- 0.3	+43 *	+51 *	M	— —	-	-	3	205	115	69
	0856	09 25 10	BINZ	03.4S	SC	+ 1.0	+41	- 6	MS	09 23	6	6	6	206	18	69
										09 24	4,6	4				69
	0856	09 24 19	HRMN	33.3S	SC *	+ 1	+27	+11	M	09 23	6,7	5	20	138	112	69
	0857	09 24 18	GNAN	43.2S	SC *	+ 1	+ 6	+ 3	M	09 23	4	5	14	42	74	69
	0855	09 23 20	KGLN	57.3S	SC	—	—	—	M	09 23	7	5	—	—	—	69
09 25	16—	09 29 10	BANG	04.8N	..	..	..	..	M	09 26	7	5	—	68	—	70
	21—	09 26 17	GUAM	04.0N	..	..	..	..	M	09 26	6	5	—	38	7	70
	16	09 29 08	BINZ	03.4S	..	..	..	..	M	09 26	7	5	8	133	33	70
										09 27	4,6	5				70
	21—	09 27 16	HRMN	33.3S	..	..	..	..	M	09 26	7	5	16	78	75	70
09 26	07—	09 28 19	COLL	64.6N	..	..	..	..	MS	09 28	6	6	108	920	490	70
09 27	1020	09 27 21	HUAN	0.6S	..	..	..	..	MS	09 27	6	6	5	225	29	70
	1425	09 28 06	KGLN	57.3S	SC	—	—	—	M	09 28	1,2	4	—	—	—	70
09 28	01—	09 28 06	HRMN	33.3S	BAY	..	..	..	M	09 28	2	5	15	16	27	70
09 30	04—	10 01 14	COLL	64.6N	..	..	..	..	MS	09 30	3	6	106	820	550	71
10 03	1930	10 05 22	HYDE	7.6N	..	..	..	..	M	— —	-	-	5	152	29	72
	0424	10 07 00	PMOR	18.6S	SC	0	3	2	M	10 04	8	5	7	151	56	72
										10 05	4					72
10 04	03—	10 06 23	COLL	64.6N	..	..	..	..	MS	10 05	4	7	222	1400	830	72
	04—	10 06 16	SITK	60.0N	..	..	..	..	MS	10 05	4	7	85	570	600	72
	18—	10 05 12	FRED	49.6N	..	..	..	..	M	10 04	8	5	29	143	81	72
	13—	10 06 15	IRKU	40.8N	..	..	..	..	M	10 04	7,8	5	18	167	55	72
										10 05	4,7	5				72
										10 06	5	5				72
	1600	10 06 10	TUCS	40.4N	..	..	..	..	M	10 04	7,8	5	16	150	20	72
										10 05	4	5				72
										10 06	2	5				72
	1300	10 05 24	SJUA	29.9N	..	..	..	..	MS	10 04	7	6	12	132	37	72
	1320U	10 05 21	MBOR	21.3N	..	..	..	..	MS	10 04	7	6	2	134	—	72
	09—	10 06 17	BANG	04.8N	..	..	..	..	MS	10 04	7,8	7	—	158	—	72
		10 05 17	GUAM	04.0N	..	..	..	..	M	10 04	8	5	—	51	7	72
	1322	10 05 02	HUAN	0.6S	..	..	..	..	M	10 04	7,8	5	5	307	33	72
	1510	10 05 16	APIA	16.1S	..	..	..	..	M	10 05	7	5	3	142	96	72
	13—	10 05 24	HRMN	33.3S	..	..	..	..	MS	10 04	7,8	6	23	114	136	72
	13—	10 05 12	GNAN	43.2S	..	..	..	..	M	10 04	7,8	5	12	127	98	72
	0000	10 06 16	TOOL	46.7S	..	..	..	..	M	10 04	8	5	16	139	50	72
	2015	10 05 20	KGLN	57.3S	SC	—	—	—	MS	10 04	8	7	—	—	—	72
10 15	0955	10 16 18	SITK	60.0N	SC	—	—	—	S	10 16	3,5	8	155	775	550	73
	0954	10 16 15	FRED	49.6N	SC *	- 2	+ 8	- 3	M	10 16	3,5	5	22	117	69	73
	0950	10 16 21	IRKU	40.8N	SC *	- 1.6	+22	+ 5	MS	10 16	3	6	26	145	44	73
	0954	10 16 22	TUCS	40.4N	SC	+ 1	+ 5	—	MS	10 16	3	6	20	90	10	73
	0954	10 16 15	MBOR	21.3N	SC	0	+25	- 8	M	10 15	4,7	4	3	40	15	73
										10 16	3	4	4	30	16	73
	0955	10 16 22	ALIB	09.5N	SC	- 0.3	+15	- 3	MS	10 16	3	6	7	184	65	73
	0955	— — —	BANG	04.8N	SC	—	+27	—		-	-	-	—	—	—	73
	0955	10 16 22	ANNA	01.5N	SC	- 0.6	+18	—	MS	— —	-	-	5	241	70	73
	0955	10 16 22	TVAN	01.1S	SC *	0.0	+21	+25	MS	— —	-	-	3	289	170	73
	0955	10 16 18	APIA	16.1S	SC	—	+ 9	- 6	M	10 16	3,5	5	2	130	14	73
	0956	10 17 02	PMOR	18.6S	SC	0.1	19	17	MS	10 16	3	6	6	157	73	73
	0954	10 16 21	HRMN	33.3S	SC *	+ 1.5	+19.2	+14.0	M	10 16	3,5	5	20	111	52	73
	0955	10 16 19	GNAN	43.2S	SC *	+ 1	+16 *	+ 4	MS	10 16	5	6	23	104	151	73
	0955	10 16 22	TOOL	46.7S	SC	- 1	+30	+ 4	M	10 16	3,5	5	23	111	56	73
	0955	10 16 15	AMBE	47.7S	SC *	0.5	27.6	..	M	10 16	3	5	19	88	—	73
	0952	10 16 19	KGLN	57.3S	SC	—	—	—	M	10 16	5,6	5	—	—	—	73
10 16	06—	10 16 19	COLL	64.6N	..	..	..	..	MS	10 16	3,5	7	264	1600	1200	73

PRINCIPAL MAGNETIC STORMS

OCTOBER, NOVEMBER 1966

DATE 1966 MO. DA.	STORM TIME UT START	STORM TIME UT END MO. DA. HR.	OBS.	GEO-MAG. LAT.	SUDDEN COMMENCEMENT TYPE	AMPLITUDES D(′)	AMPLITUDES H(γ)	AMPLITUDES Z(γ)	C FIGURE DEGREE OF ACTIVITY	MAXIMAL ACTIVITY ON K-SCALE 0 TO 9 MO. DA.	3-HOUR PERIOD	K INDEX	RANGES D (′)	RANGES H (γ)	RANGES Z (γ)	STORM NUMBERS
10 16	0308	10 16 23	GUAM	04.0N	SC	—	+19	-06	M	10 16	3	5	—	41	6	73
10 23	1500	10 26 22	HYDE	7.6N	..	..	..	..	M	— —	—	—	4	106	18	74
	1502	— — —	BANG	04.8N	..	..	..	..	—	— —	—	—	—	—	—	74
10 24	12—	10 27 03	COLL	64.6N	..	..	..	..	MS	10 25	3,4	6	98	820	450	74
	1145	10 24 24	HUAN	0.6S	..	..	..	..	MS	10 24	6	6	6	185	27	74
10 25	18—	10 26 06	HRMN	33.3S	BAY	..	..	..	M	10 25	8	5	12	51	60	74
10 30	16—	10 02 03	COLL	64.6N	..	..	..	..	MS	10 31	4,5,6	6	218	1360	900	75
										11 01	4,5,6	6				75
	13—	11 01 15	FRED	49.6N	..	..	..	..	M	10 31	1	5	22	83	46	75
	12—	11 01 20	IRKU	40.8N	..	..	..	..	MS	10 31	6	6	19	113	33	75
	1100	11 01 18	TUCS	40.4N	..	..	..	..	M	10 31	1	5	12	100	10	75
										11 01	4	5				75
	1200	10 31 12	SJUA	29.9N	..	..	..	..	M	10 30	6	5	7	133	29	75
	12—	11 02 03	MBOR	21.3N	..	..	..	..	M	10 30	8	4	3	36	14	75
										10 31	1,4,5,7	4	1	44	18	75
										11 01	4,6	4	3	50	10	75
	0045	11 01 22	HYDE	7.6N	..	..	..	..	M	— —	—	—	4	139	24	75
	0048	10 31 24	BANG	04.8N	..	..	..	..	M	10 30	7,8	4	—	—	—	75
	1300	10 30 20	HUAN	0.6S	..	..	..	..	MS	10 30	6	6	7	228	20	75
	11—	11 01 24	HRMN	33.3S	..	..	..	..	M	10 31	5	5	20	107	96	75
										11 01	6	5				75
	1500	11 01 21	KGLN	57.3S	..	..	..	..	MS	10 31	7	6	—	—	—	75
11 03	05—	11 04 03	COLL	64.6N	..	..	..	..	MS	11 03	4	7	177	1160	380	76
11 17	0016	11 17 09	MBOR	21.3N	SC	0	+12	0	M	11 17	1	3	—	24	—	77
	0016	11 17 10	BANG	04.8N	SC	—	+12	—	M	11 17	1	4	—	22	—	77
	1720	11 17 21	HUAN	0.6S	SC *	+ 1	56	4	MS	11 17	6	6	7	299	22	77
	1720	11 18 09	MBOR	21.3N	SC *	+ 0.2	+10	0	M	11 17	7	4	—	39	—	77
11 18	12—	11 19 23	COLL	64.6N	..	..	..	..	M	11 19	5	5	57	560	230	78
	11—	11 18 24	IRKU	40.8N	..	..	..	..	MS	11 18	6	6	8	94	19	78
	09—	11 20 04	BANG	04.8N	..	..	..	..	M	11 18	6	5	—	39	—	78
	1102	11 18 22	HUAN	0.6S	..	..	..	..	MS	11 18	6	6	7	192	26	78
	1135	11 19 06	KGLN	57.3S	..	..	..	..	M	11 18	6,7,8	4	—	—	—	78
11 25	1339	11 26 20	MBOR	21.3N	SC *	—	+ 6	0	M	11 25	8	3	—	—	—	79
										11 26	1,2,3,4	3				79
										11 26	5					79
	1339	11 26 18	HYDE	7.6N	SC	- 0.1	+ 9	- 1	M	— —	—	—	3	74	12	79
	1340	11 26 21	BANG	04.8N	SC	—	+10	—	M	11 26	4	4	—	36	—	79
11 27	1630	11 29 02	HYDE	7.6N	..	..	..	..	M	— —	—	—	3	90	15	80
11 28	06—	11 29 20	COLL	64.6N	..	..	..	..	MS	11 29	4	6	79	810	320	80
	05—	11 29 22	IRKU	40.8N	..	..	..	..	M	11 28	5,6,7,8	4	14	71	25	80
										11 29	1,6	4				80
	15—	11 29 03	HRMN	33.3S	BAY	..	..	..	M	11 28	7	5	10	55	65	80
	1150	11 29 01	KGLN	57.3S	..	..	..	..	M	11 28	7	4	—	—	—	80
11 30	06—	12 01 24	COLL	64.6N	..	..	..	..	MS	11 30	4	7	149	1230	750	81
	04—	11 30 24	IRKU	40.8N	..	..	..	..	M	11 30	3,4,5,6	5	16	107	24	81
	0300	12 01 23	HYDE	7.6N	..	..	..	..	M	— —	—	—	3	96	26	81

Note: Principal Magnetic Storms will usually appear in the white section two months after observation.
See Descriptive Text published in February 1967 for explanation of columns and observatory code.

SOLAR RADIATION MONITORING SATELLITE
X-RAY

DECEMBER 1965, JANUARY FEBRUARY 1966

ESSA, Boulder

FLUX MEASUREMENTS					
Date	Times of Observation	0-3 A ($\times 10^{-5}$)	0-8 A ($\times 10^{-4}$)	8-20 A ($\times 10^{-3}$)	44-60 A ($\times 10^{-2}$)
1965					
17 Dec	2308-2322	---	0.56	1.4	---
20 Dec	2139-2154	---	.56	1.4	---
21 Dec	2110-2124	---	.56	1.1	---
22 Dec	2041-2055	---	---	0.29	2.7
23 Dec	1306-1310	---	---	0.29	2.7
	2011-2026	---	---	0.29	2.7
27 Dec	1958-2012	1.0	5.2	4.4	7.9
28 Dec	1929-1943	---	1.3	1.9	6.6
29 Dec	1715-1729	---	5.2	6.3	9.1
	1859-1913	---	2.9	3.5	6.6
30 Dec	1830-1844	0.8	6.5	5.8	8.7
1966					
3 Jan	1632-1646	---	0.65	0.59	4.1
	1816-1831	---	---	0.59	4.1
4 Jan	1933-1943	---	---	0.70	4.5
5 Jan	1718-1732	---	---	0.70	4.5
6 Jan	1648-1703	---	---	0.94	4.5
7 Jan	1619-1633	---	---	0.70	4.5
10 Jan	1635-1650	---	---	0.59	4.1
11 Jan	1606-1621	---	1.5	1.9	5.5
12 Jan	1537-1552	---	2.0	2.3	6.2
13 Jan	1654-1704	---	2.4	3.4	7.4
14 Jan	1438-1453	---	2.8	4.0	8.5
15 Jan	1409-1424	---	3.9	5.1	9.1
	1554-1606	---	2.9	4.9	9.0
16 Jan	1339-1354	---	2.9	4.7	9.1
17 Jan	1455-1509	1.3	13.0	>10.5	18.0
18 Jan	1426-1440	2.8	13.0	>10.5	18.5
19 Jan	1356-1410	---	5.9	9.0	---
20 Jan	1327-1340	---	2.6	3.6	---
21 Jan	1257-1310	---	1.6	2.7	---
24 Jan	1316-1327	---	2.0	2.7	---
31 Jan	0057-0112	---	---	0.9	---
1 Feb	0029-0043	---	<0.14	<0.9	---
2 Feb	0000-0015	---	1.6	1.8	---
	2331-2346	---	2.0	2.25	---
3 Feb	2302-2316	---	0.65	0.90	---
5 Feb	0015-0032	---	0.35	0.90	---
6 Feb	2317-2333	---	0.30	0.90	---
7 Feb	2247-2304	---	0.60	0.90	---
8 Feb	2218-2234	---	0.33	0.90	---
9 Feb	2149-2205	---	0.65	1.8	---
	2333-2350	---	1.30	2.7	---
10 Feb	2303-2320	---	0.65	1.8	---
11 Feb	2234-2250	---	0.98	2.25	---
14 Feb	2108-2122	---	0.82	2.25	---

SOLAR RADIATION MONITORING SATELLITE
X-RAY

FEBRUARY, MARCH 1966

ESSA, Boulder

FLUX MEASUREMENTS					
Date 1966	Times of Observation	0-3 A ($\times 10^{-5}$)	0-8 A ($\times 10^{-4}$)	8-20 A ($\times 10^{-3}$)	44-60 A ($\times 10^{-2}$)
15 Feb	2036-2052	---	0.65	1.8	---
16 Feb	2151-2207	---	0.33	1.4	5.8
17 Feb	2308-2322	---	0.33	0.92	5.4
18 Feb	2052-2109	---	0.65	1.5	5.8
21 Feb	1923-1940	---	0.98	1.7	6.0
22 Feb	1853-1910	---	1.6	2.3	6.4
23 Feb	1823-1840	---	1.6	2.8	6.6
	2009-2025	---	1.6	2.2	6.25
24 Feb	1754-1811	---	0.64	1.4	5.6
25 Feb	1909-1925	---	1.5	2.1	5.8
26 Feb	1840-1856	---	1.1	2.1	5.8
27 Feb	1809-1826	---	4.9	4.7	8.3
28 Feb	1740-1756	1.1	9.4	10.0	---
	1926-1941	---	5.0	6.8	---
1 Mar	1710-1726	0.66	4.5	4.5	---
	1856-1911	1.0	11.0	14.0	---
2 Mar	1640-1657	---	0.65	1.9	---
3 Mar	1755-1811	---	---	0.45	5.14
4 Mar	1726-1741	---	---	0.60	4.4
5 Mar	1655-1712	---	---	0.63	4.3
6 Mar	1626-1642	---	---	0.69	5.0
7 Mar	1556-1612	---	---	0.69	4.2
8 Mar	1526-1543	---	---	0.69	4.4
9 Mar	2201-2217	---	3.4	1.2	5.0
10 Mar	2131-2147	---	---	0.70	4.6
11 Mar	2101-2117	---	---	0.70	5.0
12 Mar	1512-1529	---	---	0.75	5.1
13 Mar	2147-2203	---	1.9	3.3	7.5
14 Mar	2117-2133	---	2.7	5.2	9.6
	2302-2316	0.33	3.34	5.4	9.6
15 Mar	1902-1917	1.84	11.9	11.0	16.4
	2147-2157	0.34	3.86	9.75	13.4
	2232-2246	0.65	6.7	10.0	13.6
16 Mar	1647-1659	0.33	5.0	9.0	---
	1833-1846	---	4.35	8.1	---
	2203-2216	0.66	5.7	9.9	---
17 Mar	1803-1817	13.4	35.0	40.4	18.7
	1948-2004	---	7.4	11.0	---
18 Mar	1733-1747	---	5.4	9.9	---
19 Mar	2033-2049	0.33	7.1	11.0	---
20 Mar	2004-2020	10.3	61.0	40.0	---
21 Mar	1934-1950	0.33	9.8	17.0	---
22 Mar	1720-1734	---	3.1	6.5	---
	1904-1921	---	3.7	7.4	---
	2049-2103	---	5.1	9.5	---
23 Mar	1834-1850	---	1.7	4.1	8.1
	2019-2034	3.4	13.0	10.0	16.0
24 Mar	1805-1821	0.6	6.2	7.0	11.0
	1950-2005	3.1	8.1	7.3	12.0
25 Mar	1735-1751	---	2.2	4.1	8.1
	1920-1927	0.6	3.4	4.5	8.5
26 Mar	1850-1904	9.9	>14.0	>11.0	>19.0
27 Mar	1820-1836	---	6.3	7.5	12.0

SOLAR RADIATION MONITORING SATELLITE
X-RAY

MARCH APRIL 1966

ESSA, Boulder

FLUX MEASUREMENTS					
Date 1966	Times of Observation	0-3 A ($\times 10^{-5}$)	0-8 A ($\times 10^{-4}$)	8-20 A ($\times 10^{-3}$)	44-60 A ($\times 10^{-2}$)
28 Mar	1751-1807	0.4	5.9	9.5	12.0
	1938-1948	11.0	>20.0	36.0	>19.0
29 Mar	1721-1737	2.6	19.0	22.0	---
30 Mar	1507-1521	1.5	19.0	25.0	---
	1651-1709	1.1	11.0	16.0	---
31 Mar	1621-1637	1.0	12.0	17.0	---
	1807-1821	1.95	12.0	17.0	---
1 Apr	1552-1608	1.64	10.4	11.4	15.7
	1741-1752	2.8	16.0	>11.6	>20.6
2 Apr	1522-1538	---	6.75	8.36	11.1
3 Apr	1638-1651	---	2.56	4.42	8.3
4 Apr	1423-1439	---	3.62	5.46	9.4
	1608-1624	---	2.8	4.4	8.5
5 Apr	1538-1552	---	1.54	3.28	7.85
	1724-1735	---	1.60	3.28	7.85
6 Apr	1508-1524	---	2.56	4.9	9.5
7 Apr	1439-1455	---	3.8	6.6	11.8
	1624-1637	---	4.6	7.3	11.8
8 Apr	1409-1425	---	6.4	8.65	12.8
	1554-1608	---	5.8	9.2	13.4
9 Apr	1524-1539	---	4.65	7.05	12.5
10 Apr	1455-1510	---	6.35	9.3	13.7
11 Apr	1425-1440	1.94	12.2	14.3	---
12 Apr	1355-1411	---	4.94	8.4	12.3
13 Apr	1325-1341	---	3.5	6.3	10.8
	1511-1522	---	4.96	9.25	13.3
14 Apr	1255-1312	---	8.64	9.10	12.8
	1441-1453	1.66	1.41	4.5	---
15 Apr	1225-1242	---	4.95	8.03	---
	1411-1424	---	2.96	6.22	---
16 Apr	1341-1355	---	1.0	2.58	7.85
17 Apr	1311-1326	---	1.28	2.68	---
18 Apr	1241-1256	2.46	14.7	>10.5	---
20 Apr	0252-0309	---	1.0	3.06	7.9
21 Apr	0153-0209	---	1.28	3.28	8.9
	0223-0239	---	1.85	8.3	9.3
22 Apr	0123-0139	---	1.6	4.2	9.9
	2309-2325	---	1.17	2.48	8.6
23 Apr	0054-0109	---	3.84	8.25	12.4
25 Apr	0025-0040	---	3.24	8.47	13.7
	2356-0009	---	3.84	7.7	13.6
27 Apr	0108-0124	---	1.75	5.2	11.6
28 Apr	0039-0055	---	2.24	4.67	10.3
29 Apr	0009-0025	---	2.88	5.36	10.3
	2332-2355	---	1.92	3.58	---

FINAL CORONAL LINE EMISSION INDICES

OCTOBER 1966

CMP October 1966	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1
1	42	46	12	18	45	58	17	22	x	x	x	x	x	x	x	x
2	29	37	14	28	11	15	11	15	12	23	5	9	46	56	3	5
3	x	x	x	x	x	x	x	x	11	22	4	9	32	47	6	12
4	34	48	13	23	22	40	x	x	35	62	18	48	51	68	8	10
5	x	x	x	x	x	x	x	x	38	86	17	38	41	58	8	10
6	32	42	11	17	30	47	13	22	39	74	31	101	31	44	14	20
7	63	90	x	x	31	44	x	x	22	28	x	x	43	51	x	x
8	68	125	24	36	18	28	16	38	x	x	x	x	x	x	x	x
9	107	276	20	45	26	30	10	11	12	16	3	11	85	173	19	39
10	128	211	24	43	20	28	12	15	15	19	11	28	96	208	33	75
11	x	x	x	x	x	x	x	x	21	35	4	10	93	162	11	12
12	x	x	x	x	x	x	x	x	24	28	1	1	61	72	12	21
13	83	113	50	102	44	76	13	20	15	25	4	12	56	69	12	19
14	48	54	16	39	28	49	9	11	36	44	x	x	61	86	x	x
15	x	x	x	x	x	x	x	x	28	34	1	1	63	80	3	7
16	103	124	12	23	46	82	10	21	14	27	9	11	63	79	10	15
17	86	121	21	63	27	54	12	19	x	x	x	x	x	x	x	x
18	117	190	16	54	37	56	7	17	x	x	x	x	x	x	x	x
19	126	186	13	32	25	46	9	17	16	26	x	x	62	93	x	x
20	53	71	17	27	24	35	13	16	16	30	5	11	44	64	1	1
21	72	89	x	x	16	19	x	x	x	x	x	x	x	x	x	x
22	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
23	114	158	20	34	25	41	6	14	x	x	x	x	x	x	x	x
24	88	151	29	50	41	63	23	38	x	x	x	x	x	x	x	x
25	77	106	26	55	64	115	25	45	x	x	x	x	x	x	x	x
26	64	99	14	20	79	144	20	30	x	x	x	x	x	x	x	x
27	39	48	38	66	55	75	35	57	x	x	x	x	x	x	x	x
28	58	82	x	x	x	x	x	x	x	x	1	1	31	49	37	65
29	53	87	9	22	20	25	4	6	25	33	6	8	81	99	20	38
30	40	96	21	40	19	25	16	18	12	20	5	6	51	67	16	34
31	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

FINAL CORONAL LINE EMISSION INDICES

NOVEMBER 1966

CMP November 1966	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1
1	x	x	x	x	x	x	x	x	91	118	4	13	50	67	9	14
2	36	43	x	x	63	107	x	x	x	x	x	x	x	x	x	x
3	51	69	9	16	74	107	9	13	47	72	15	25	35	43	14	21
4	x	x	x	x	x	x	x	x	x	x	9	10	x	x	15	34
5	x	x	x	x	x	x	x	x	17	26	x	x	61	96	x	x
6	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
9	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
11	41	49	1	3	15	17	8	11	18	24	9	17	51	69	25	78
12	159	193	5	12	52	58	8	13	17	21	3	15	62	93	10	46
13	120	193	7	13	26	62	3	5	x	x	1	1	x	x	1	1
14	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
15	126	143	6	16	31	60	7	10	13	20	x	x	65	103	x	x
16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
17	43	47	7	11	19	23	12	14	17	25	3	6	34	50	1	1
18	78	94	9	11	30	52	17	19	x	x	x	x	x	x	x	x
19	83	112	13	27	48	58	15	25	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x	37	54	x	x	69	94	x	x
21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
22	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
23	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
24	x	x	x	x	x	x	x	x	23	28	1	7	58	98	14	30
25	69	185	32	46	18	21	20	27	x	x	x	x	x	x	x	x
26	98	169	42	70	18	29	11	21	x	x	x	x	x	x	x	x
27	x	x	22	31	x	x	5	6	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
29	56	71	x	x	x	x	x	x	46	58	1	3	52	71	6	11
30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1966

Fort Davis — 25-320 Mc/s

Oct. 1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
Oct. 1	1319-2252	IIIg	1406	2	>180-<50	
	2257-2345	IIIb	1451	1	>180-<50	
		IIIg	1523	1	>180-100	
		IIIg	1528-1529	2	180-<50	
		IIIG	1625-1627	2	>180-<50	
		IIIb	1643	2	>200-100	
		IIIg	1644-1645	2	280-100	
		IIIb	1647	3	100-25	
		IIIg	1812	2	>180-90	
		IIIg	2109	3	>180-65	
2	1319-2345	IIIg	1605	2	125-<25	
		IIIg	1746-1747	1	50-<25	
		IIIg	1758	2	75-<25	
		IIIg	2115-2116	1	90-<25	
		IIIg	2118-2119	3	150-<25	
		IIIg	2131	1	75-<25	
		IIIb	2134	1	65-<25	
3	1319-2345	IIIb	1430	1	180-<50	
		IIIb	1444	2	180-<50	
		IIIg	1800	2	50-<25	
		IIIg	1810-1812	1	75-<25	
		IIIg	2102-2104	1	280-180	
4	1319-2345	I	1848-1851	1	180-170	
5	1319-2345	IIIg	1441	3	180-<50	1319-1700: Weak I
		IIIb	1620	1	100-<50	
		IIIg	1628-1630	3	150-<50	
		IIIb	1648	2	75-<50	
		IIIg	1651	1	100-<50	
		IIIb	1822	1	150-100	
		IIIg	2003-2004	2	165-<50	
		IIIg	2011-2012	1	180-75	2011: U-burst
		IIIg	2014	1	180-100	
		IIIg	2131	3	280-150	
6	1319-2345	IIIg	1538-1541	3	240-<50	1439: U-burst
		IIIg	1915	1	150-<50	
		IIIg	2205	1	125-<50	
		IIIg	2209	3	135-<25	
7	1319-2345	IIIg	1654	1	280-100	
8	1319-2345					Weak I throughout day
9	1319-2345					Weak I throughout day
10	1319-2345	IIIb	1606	1	100-<50	Weak I throughout day
		IIIg	2208	3	320-125	1710-2005: Sporadic Type III, 50-<25 Mc/s.
		IIIb	2327	2	280-100	1904: Reverse drift pair
11	1319-2345	IIIb	1827	2	50-<25	
12	1319-2345	IIIg	1428-1431	2	>50-<25	
		IIIg	1434	2	>50-<25	
		IIIg	1437-1438	2	180-<25	
		IIIb	1446	2	>50-<25	
		IIIg	1801	2	>50-<25	
		IIIG	1901-1904	3	180-<25	1902: Type V
		IIIG	1905-1910	3	240-<25	1907: Type V
		IIIg	2115	3	>50-<25	
		IIIg	2343-2345	2	230-125	
13	1319-2345	IIIG	1336-1341	3	>320-<25	
		IIIG	1344-1346	3	>320-<50	
		IIIb	1649	2	50-<25	
		IIIg	1744	2	320-150	
		IIIg	1747-1748	2	50-<25	
		IIIb	1839	2	100-<25	
		IIIg	1852	1	320-180	
		IIIb	1910	1	150-<50	
		IIIb	1914	1	100-<25	
		IIIg	1941-1943	3	>50-<25	
		IIIb	2010	2	>50-<25	
		IIIG	2013-2015	3	200-<25	
		IIIG	2018-2021	3	>320-<25	
		IIIg	2023	3	280-<25	
		IIIg	2026	1	240-<25	
		IIIg	2031	3	180-<25	2031: U-burst
14	1319-2345	IIIG	1721-1723	3	>320-<25	1722: Type V
		IIIg	1753	3	125-<25	1722: U-burst
		IIIb	1758	1	100-<25	
		IIIb	1805	1	50-<25	
		IIIb	1807	1	50-<25	
		IIIG	1812-1814	3	135-<25	1813: Type V
		IIIg	1816	3	125-<25	
		IIIg	1831	2	75-<25	
		IIIg	1847	2	>50-<25	
		IIIg	2001	2	75-<25	
15	1319-2345	IIIg	1504	2	150-<100	Weak I during day 1835-2132: Sporadic Type III, 100-<25 Mc/s.
16	1319-2345	IIIg	2201	2	>320-100	Weak I throughout day
		IIIg	2313	2	>320-115	1549-2144: Sporadic Type III, 100-<25 Mc/s.

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER, NOVEMBER 1966

Fort Davis — 25-320 Mc/s

Oct.-Nov. 1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
17	1319-2345	IIIb	1409	1	100-<50	Weak I throughout day
		IIIb	1536	1	125-<50	1637-1759: Sporadic Type III, 100-<25 Mc/s.
		IIIb	1541	2	125-<50	
		IIIb	1905	1	150-100	
		IIIg	2048	2	>320-180	
		IIIb	2154	1	90-<50	
		IIIg	2342	2	>320-180	
18	1319-2345	IIIb	1504	1	100-<50	1319-1800: Sporadic Weak I
		IIIg	1742-1743	2	125-<25	1742: U-burst
		IIIg	1842-1844	3	160-<25	
		IIIG	1940-1942	3	230-<25	1941: Type V
		IIIg	2121-2122	1	200-<50	
		IIIb	2129	2	240-125	
		IIIb	2144	1	280-180	
19	1319-2345	IIIg	1447	2	180-100	1900-2340: Sporadic Weak I
		I	2045-2152	2	280-180	
20	1319-2345	I	1319-1906	3	320-75	1907-2345: Sporadic Weak I
		IIIb	1408	2	180-<50	
		IIIg	1532	2	100-<25	
		IIIg	1534-1535	2	125-<25	
		IIIg	1612-1613	2	>320-<25	
		IIIb	1726	2	100-<25	
		IIIb	1747	1	100-<25	
		IIIb	1755	2	50-<25	
		IIIg	1902-1904	2	>320-180	
		IIIG	2154-2156	3	>320-<25	2155: Type V
21	1319-2345	I	1400-1500	1-	250-200	
		IIIg	1501	1	280-135	
		I	1920-2340	1	250-200	
22	1319-2345	I	1319-1520	2	280-125	
		I	1520-1825	1	280-150	
		IIIg	1620	1	>320-240	
		IIIg	2007	1	>320-170	
		IIIg	2144-2147	2	290-175	
23	1319-2345	IIIg	1345-1346	1	320-180	
		IIIg	1609	3	320-180	
		IIIb	1806	2	150-<25	
24	1320-2345	I	1325-1440	1	280-140	
		IIIg	1320	2	320-<125	
		IIIg	1401	3	>320-180	
		IIIg	1430	2	>320-200	
		IIIG	1502-1504	3	>320-90	1503: Type V
		II	1505-1514	2	>320-<50	
		IIIb	1520	2	>320-180	
		IIIb	2238	2	280-180	
25	1319-2345	IIIg	2055	1	280-<50	
26	1319-2345	IIIg	1959-2000	2	100-<25	
27	1319-2345					
28	1319-2345	IIIb	1354	2	100-<50	
29	1319-2345	IIIb	1707	1	100-<25	Weak I throughout day
30	1319-2345					
31	1319-2345					1600-2345: Sporadic Weak I
Nov. 1	1353-2330					
2	1353-2330	IIIg	1617	1	>320-150	
		IIIg	1707	1	280-180	
		IIIG	1722-1724	2	200-<50	
		I	1743-1746	1	180-100	
3	1353-2330	IIIg	1527-1528	2	180-<50	
		IIIG	1530-1533	3	220-<25	
		IIIg	1857-1859	2	240-<25	
		IIIG	1903-1906	3	240-<25	1904: Type V
		IIIb	2038	1	240-200	1908: Reverse drift pair
4	1353-2330					
5	1353-2330	IIIg	1436	2	240-125	1436: U-burst
		IIIg	1630-1631	3	240-<25	
		IIIg	2008	2	>320-<25	
		IIIg	2145-2146	2	75-<25	
		IIIg	2148-2149	3	>320-<50	
		IIIg	2157	3	75-<25	
		IIIg	2201	1	75-<50	
		IIIb	2324	1	75-<50	
6	1353-2330	IIIg	1543	3	75-<25	
		IIIg	1948	1	50-<25	
		IIIg	1951	3	75-<25	
		IIIg	2104-2106	2	320-<25	
		IIIg	2108	2	80-<25	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

NOVEMBER, DECEMBER 1966

Fort Davis

25-320 Mc/s

Nov.-Dec. 1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
		IIIg	2120-2121	3	200-<25	
		IIIg	2126-2127	2	280-200	
		IIIG	2129-2134	2	>320-<25	
		IIIg	2208	1	150-100	
		IIIg	2247	1	80-<25	
		IIIg	2254	3	200-<25	
		IIIg	2311-2312	1	280-125	
7	1354-2330	IIIg	1715	2	>180-110	
8	1353-2330	IIIb	1524	3	>100-<50	
		IIIg	1533	3	150-<25	
		IIIg	2049	1	180-<50	
		IIIb	2129	1	180-125	
9	1353-2330	IIIg	2111	1	140-<50	
10	1353-2330	IIIb	1621	3	100-<25	
		IIIg	1625	3	125-<25	
		IIIb	1701	3	280-220	
		IIIg	2104	3	315-260	2121-2230: Sporadic Type III, 315-260 Mc/s.
11	1353-2300	IIIb	1409	2	75-<25	1546-2330: Sporadic Weak I
		IIIg	1634	3	180-<25	
		IIIg	1650	3	100-<25	
		IIIg	2127	2	280-200	
		IIIg	2254	3	125-<25	
12	1353-2330	IIIg	1925	2	280-180	Weak I throughout day
		IIIg	1959	1	35-<25	
13	1353-2330					
14	1353-2330	IIIg	1356	2	250-165	
		IIIg	1359	2	260-165	
		IIIg	1544-1545	2	300-150	
		IIIg	2022-2023	2	280-160	
		IIIg	2025-2027	1	280-160	
		IIIb	2108	1	240-180	
		IIIg	2116-2118	3	>320-150	
15	1353-2330	IIIg	1928	1	280-200	
16	1353-2330					
17	1353-2330	IIIg	2036	3	280-<25	
		IIIb	2158	2	75-<50	
18	1353-2330					
19	1353-2330	IIIb	1540	2	150-100	
20	1353-2330					
21	1353-2330					2100-2330: Sporadic Weak I
22	1353-2330	I	1909-1914	2	50-<25	1753: U-burst 1900-2330: Sporadic Weak I
23	1353-2330					
24	1353-2330	IIIb	1525	1	180-100	
		IIIb	2131	1	240-125	
		IIIg	2137	1	280-100	
		IIIg	2155-2156	1	240-100	
		IIIG	2212-2215	3	>320-<25	
25	1353-2330	IIIg	1420	1	280-180	
		IIIg	1451-1452	2	280-180	
		IIIb	1526	1	280-160	
		IIIg	1547	2	280-200	
		IIIg	1626	3	>320-150	
		IIIg	1709	1	300-200	
		IIIg	1742-1746	2	>320-170	
		IIIg	2012-2013	2	50-<25	
		IIIg	2248	2	300-190	
26	1353-2330	IIIG	1616-1620	1	180-50	
		IIIg	1621-1624	1	180-50	
27	1353-2330	IIIg	1631-1634	2	80-<25	
		IIIb	1637	2	80-<25	
		IIIG	1823-1827	2	180-<25	
		IIIg	2321-2322	2	>320-<50	
28	1353-2330					
29	1353-2330	IIIg	1708	3	240-<25	
		IIIg	1714-1716	2	>320-<25	
30	1353-2330	IIIg	1631-1632	2	50-<25	
Dec. 1	1353-2330	IIIG	1748-1750	3	>320-<25	
		I	1755-1757	1	140-110	
		IIIg	2303	1	280-180	
2	1353-2330	IIIg	1811-1812	3	50-<25	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

DECEMBER 1966

Fort Davis

25-320 Mc/s

Dec. 1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
3	1353-2330	IIIb	1535	3	100-<25	
		IIIb	1538	3	125-<25	
		IIIb	1754	1	200-125	
4	1353-2330	IIIg	1410	1	190-100	
		IIIg	1714	1	190-<25	
5	1353-2330	IIIg	1416	1	150-50	
		IIIb	1654	1	50-<25	
		IIIg	1928-1929	2	280-100	
6	1353-2330	IIIG	1410-1413	3	200-100	
		IIIG	1844-1846	3	290-<25	
		IIIb	2102	2	180-<25	
7	1353-2330	IIIg	1710-1711	2	50-<25	
		IIIg	1800	1	>320-220	
		IIIg	2038-2030	3	150-<25	
8	1353-2330	IIIg	2048	1	180-<25	1854-2330: Sporadic Weak I
9	1353-2330	I	1800-1848	1	300-90	Weak I throughout day
		IIIg	1945	1	190-<100	
		I	2052-2330	1	240-115	
		IIIg	2127	2	240-<50	
10	1353-2338	IIIb	1604	1	>320-180	Sporadic Weak I throughout day
		IIIg	1607	2	>320-180	
		IIIg	1931-1932	1	190-<25	
		IIIb	2048	1	50-<25	
		IIIg	2139-2140	2	>320-<25	
		IIIg	2229-2230	3	>320-<25	
		IIIg	2327-2329	2	280-<100	
		II	(2329-2331	3	150-<100	
			(2334-2337	2	125-<100	
11	1353-2330	IIIb	1513	1	75-<50	Weak I throughout day
		IIIg	1839-1840	1	100-<50	
12	1353-2330	I	1407-2330	1	240-75	Type I has background continuum
13	1353-2330	I	1405-2330	1	180-75	Type I has background continuum
		II	2308-2310	2	>320-150	
14	1353-2330	I	1417-1423	1	180-100	
		IIIb	1544	1	250-180	
15	1353-2330	IIIg	1507	1	180-150	Sporadic Weak I during day
		IIIg	1539	1	180-<25	
		IIIb	2236	1	125-<25	
16	1353-2330					
17	1353-2330					
18	1353-2330					
19	1353-2330	IIIg	1655	1	290-200	
20	1353-2330	IIIg	1440	1	280-100	
		IIIg	1453	1	90-<25	
		IIIg	1500-1501	3	280-150	
		IIIG	1507-1511	2	280-<25	
		IIIg	1519	3	280-<25	
		IIIb	1523	1	280-200	
		IIIg	1525	1	280-180	
		IIIG	1602-1603	3	280-<25	
		IIIg	1605-1606	2	240-125	
		IIIg	1608	1	280-50	
		IIIg	1650-1651	3	100-<25	
		IIIG	1743-1746	3	150-<25	1706-2151: Sporadic Type III, 50-<25 Mc/s.
		IIIg	1825	2	280-125	
		IIIb	1916	3	100-<25	
		IIIG	2030-2032	3	200-<25	
		IIIG	2113-2114	2	290-100	
		IIIg	2116-2117	2	>320-<25	
		IIIG	2220-2226	2	>320-<25	
21	1353-2330	IIIb	1441	1	240-180	
		IIIg	1451	1	240-180	
		IIIG	1452-1455	3	290-<25	
		IIIb	1544	1	240-180	
		IIIg	1705-1706	3	150-<25	
		IIIg	1719	2	200-<25	
		IIIg	1733	1	280-100	
		IIIg	1817-1821	2	100-<25	
		IIIg	1822-1823	2	280-<25	
		IIIg	1911-1912	3	280-<25	
		IIIg	1938-1940	3	>320-<25	
		IIIg	1940-1946	1	>320-<25	
		IIIb	1952	3	50-<25	
		IIIb	1955	1	50-<25	
		IIIg	2120	1	280-50	
		IIIg	2143	2	280-100	
		IIIg	2245	1	180-75	
22	1353-2330	IIIg	1932	2	50-<25	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

DECEMBER 1966

Fort Davis — 25-320 Mc/s

Dec. 1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
23	1353-2330	IIIg	1816	2	300-200	
		IIIg	1853	3	60-<25	
		IIIb	1855	3	60-<25	
		IIIb	2023	1	50-<25	
		IIIg	2108	3	200-<25	
		IIIg	2144-2145	2	180-<25	
24	1353-2330	IIIg	1622-1623	2	50-<25	
		IIIG	1721-1724	3	200-<25	1722: Type V
		I	1759-1803	3	55-<25	
		I	1809	2	50-30	
		IIIg	1831	3	50-<25	
		IIIg	2119	2	50-<25	
25	1353-2330	IIIg	1813-1815	1	50-<25	
		IIIg	1818	2	50-<25	
26	1353-2330	IIIG	2139-2140	3	280-<25	
		IIIg	2142	1	180-100	
27	1353-2330	IIIg	1419-1421	1	280-200	
		IIIG	1422-1425	2	240-160	
		IIIb	1953	1	50-<25	
		IIIg	2002	1	280-200	
		IIIG	2150-2151	1	180-<25	
		IIIg	2257	1	240-180	
28	1353-2330					
29	1353-2330	IIIg	1442	1	240-100	1442: U-burst
		Uncl.	1535-1538	2	170-135	
		Uncl.	1555-1557	2	170-135	
		IIIG	1559-1600	2	240-<25	
		IIIg	1707-1708	3	190-<25	1708: Type V
		IIIg	1709-1711	3	240-<25	
		IIIb	1720	1	50-<25	
		IIIg	1740	2	100-<25	
		IIIb	1921	2	50-<25	
		IIIg	1936	2	240-100	
		IIIb	2045	1	50-<25	
		IIIb	2201	1	280-<100	
30	1353-2330	IIIg	1509-1510	2	300-100	Sporadic Weak I during day
		IIIg	1527-1528	3	300-100	
		IIIg	1616-1617	3	290-125	
		IIIg	1711-1712	2	280-170	1841-2130: Sporadic Type III, 50-<25Mc/s.
		IIIg	2106-2109	3	240-<25	
		IIIg	2115-2116	3	300-150	
		IIIg	2118-2119	3	>320-180	
		IIIG	2144-2148	3	200-<25	
		IIIG	2214-2215	3	290-<50	2214: U-burst
		IIIG	2233-2236	3	>320-<25	2234-2236: Type V
		II	2236-2247	3	280-50	
31	1353-2330	IIIb	1509	2	200-100	
		IIIG	1510-1511	3	240-<50	
		IIIb	1521	1	75-<50	
		IIIb	1527	2	240-100	
		IIIb	1606	2	240-100	
		IIIg	1610-1612	1	180-<25	
		IIIb	1613	1	50-<25	
		IIIb	1615	1	50-<25	
		IIIg	1618-1619	1	50-<25	
		IIIG	1653-1656	3	310-<25	1653: U-burst
		II	1656-1705	3	>320-<25	1614-1615: Type V
		IIIG	1840-1844	3	>320-<25	1842: Type V
		I	1846-1848	1	180-115	1800-2330: Sporadic Weak I
		IIIg	1850-1852	2	50-<25	
		IIIb	1915	3	180-<25	
		IIIg	2014-2015	3	50-<25	
		IIIg	2122-2123	2	280-<25	
		IIIg	2139-2140	3	180-<25	