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INSTITUTES FOR ENVIRONMENTAL RESEARCH

Solar-Geophysical Data

Number 272

for March 1967
February 1967
October 1966
& Miscellanea

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

WASHINGTON, D.C.
APRIL 1967

S O L A R - G E O P H Y S I C A L D A T A

Table of Contents
for March 1967 Data

For explanations of the data contained herein see "Descriptive Text" published in February 1967.

For obtaining bulletins on a data exchange basis, send request to World Data Center A, Upper Atmosphere Geophysics, ESSA, Boulder, Colorado 80302.

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ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

MARCH 1967

Mar. 1967	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
1	0400		484	Solar Flares	Expected	N23W25
2	0400		485	Solar Flares	Expected	N23W37 N16W08
	1620	ADALERTPRESTO TENFLARE Ottawa 190 percent 021559Z				
3	0400		486	Solar Flares	Expected	N23W50 N16W21
4	0400		487	Solar Flares	Expected	N23W63
	1900	ADALERTPRESTO TENFLARE Ottawa 330 percent 041716Z				
5	0400		488	Solar Flares	Expected	N23W76 S21E63
6	0400		489	Solar Flares	Alert Ends	
22	0130	Manila, Solar Flare 3B N23E62 220025Z				
	0220+	ADALERTPRESTO TENFLARE Toyokawa 410 percent 220026Z				
	0400		490	Solar Flares	Expected	N23E69
23	0400		491	Solar Flares	Expected	N24E55
	2005	McMath, Solar Flare 2N N21E45 231925Z				
24	0400		492	Solar Flares	Expected	N22E39
25	0400		493	Solar Flares	Expected	N21E25
26	0400		494	Solar Flares	Expected	N22E15
	1725	Sac Peak, Solar Flare 3N N22E14 261635Z				
27	0400		495	Solar Flares	Expected	N22E02
28	0400		496	Solar Flares	Expected	N22W12
29	0400		497	Solar Flares	Expected	N21W25
30	0400		498	Solar Flares	Expected	N21W38
31	0400		499	Solar Flares	Expected	N21W52

+ Time when Alert was relayed by AGIWARN

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

1966 (FINAL) 1967 (PROVISIONAL)

DAY	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
1	64	50	71	49	78	44	57	43	35	60	93	172
2	58	52	74	49	74	44	55	42	33	93	88	179
3	74	57	41	54	72	25	50	38	30	124	92	191
4	74	61	60	53	68	18	36	38	57	148	100	172
5	59	43	48	48	60	26	40	20	69	150	72	164
6	63	32	47	46	50	30	44	32	68	148	89	148
7	70	29	40	58	33	36	53	48	64	134	138	137
8	65	17	35	68	13	38	48	55	88	116	109	98
9	49	8	33	60	13	39	44	59	86	111	112	85
10	37	0	25	65	0	37	65	63	112	111	97	86
11	29	14	43	52	16	42	66	72	125	104	96	74
12	27	14	34	62	36	38	64	80	130	90	79	65
13	24	23	34	56	30	33	72	68	118	86	77	49
14	29	50	31	42	37	35	64	66	113	85	58	44
15	29	46	22	34	41	38	60	66	107	56	58	49
16	35	47	40	48	40	57	70	52	116	56	60	58
17	40	35	46	42	41	76	70	59	88	59	60	70
18	40	28	40	49	39	83	70	57	76	72	70	73
19	30	35	36	38	33	76	76	65	57	82	57	58
20	41	58	42	65	28	78	96	74	46	82	60	73
21	44	80	33	55	22	89	91	77	37	102	71	88
22	56	72	35	66	38	86	83	78	34	134	86	108
23	69	68	62	56	65	71	75	76	38	152	84	111
24	58	68	66	70	71	67	64	72	45	122	100	121
25	61	64	80	67	89	68	50	74	60	133	106	131
26	54	70	82	74	95	54	47	67	65	136	123	137
27	40	66	76	65	90	48	39	59	48	130	186	122
28	40	60	52	70	84	42	36	41	48	125	166	120
29	48	42	47	76	89	45	27	37	51	122		130
30	53	56	55	59	76	42	27	37	70	132		130
31		58		62	66		35		68	108		115
MEAN	48.7	45.3	47.7	56.7	51.2	50.2	57.2	57.2	70.4	108.5	92.4	108.3

1966 Yearly Mean = 47.0

DAILY SOLAR FLUX AT 2800 Mc/s
OTTAWA ARO

FLUX ADJUSTED TO 1 A.U., S_a

1966 1967

DAY	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
1	106.8*	91.7	104.8	100.1	125.9	116.6	101.4	94.6	92.2	124.4	151.6	194.2
2	106.3	94.0	103.9	98.2	119.6	106.3	102.0	96.7	95.1	143.0*	143.5	197.8
3	102.1	94.0	102.6	99.3	118.2*	103.2	103.2	93.1		154.0	138.7	196.4
4	102.6	92.5	102.0	104.8	116.0*	101.9	100.6*	91.7	104.8	160.7	137.3*	205.9
5	102.0	88.6	101.7	105.0	110.5	100.5	100.0	97.9	110.9*	168.2	146.8*	179.2
6	104.2	87.5	101.9	109.7	106.0	97.9	101.9*	104.7	115.6*	160.5	148.8	177.4
7	102.8*	89.9	96.9	112.6	101.5	95.8*	103.1	113.4	117.7	153.6	162.5	163.8
8	107.3*	87.8	99.5	114.4	97.7	96.2*	99.4	116.9	123.7	142.9	148.3	156.1
9	100.3	87.5	98.9	107.8	96.4	95.3	103.5	117.2	146.2	144.7	145.9	157.9
10	94.8	86.6	96.8	108.1*	94.3	93.9	106.5	121.9	157.3*	145.6	140.5	148.4
11	93.9	88.3	96.1	109.0	92.5	96.6	109.8	126.1	162.8*	139.8	133.7	141.6
12	94.8	92.6	95.9	102.7	92.8	100.8*	114.8	126.2	157.6	139.1	132.9	134.3
13	93.1	92.9	96.1	100.4	93.2	102.4	122.8*	126.4	155.5	138.1	130.0	129.1
14	91.0	97.2	96.9	99.8	92.8	107.4	120.3	124.0	149.5	135.2	129.2	127.2
15	96.3	99.2	94.7	101.1	93.7	112.0	120.6	122.6	144.9	126.6	126.4	132.4
16	93.2	100.1	97.9	102.8	95.1	124.6*	120.3*	121.2	135.1	120.2	124.9	132.1
17	95.2	98.9	99.5	101.2	96.8	129.1	120.5*	113.2	124.9*	116.9	122.2*	132.6
18	92.9	98.7	98.2	101.3	97.5	142.6	118.5*	113.4	111.2	117.4	124.2	132.2
19	89.0	107.1*	96.9	101.5	100.0	146.6	115.6*	111.0	112.3	116.4	121.0	136.0
20	93.5	115.5*	94.3	101.8	101.6	146.0*	124.1	110.9	107.6	127.0	128.6	140.4
21	91.7	123.6	93.5	103.7	102.7	137.2	120.9*	110.7*	106.5	138.2	131.8*	147.2
22	93.4	121.0	96.1	106.5	105.5	131.5*	119.8*	116.5	105.5*	139.9	146.0	149.5
23	98.8	113.9	99.2	114.9	114.7	127.5*	111.1	114.7*	110.6*	148.8*	149.3*	155.7
24	103.7	117.7	103.5	120.6	122.0*	126.0	106.1	113.8	110.5	146.8	162.2	161.9
25	103.8*	115.1	104.8*	126.0	126.3*	118.8*	100.8	110.7	111.6	142.7*	159.5*	169.2
26	101.3*	112.3	105.6*	127.6	130.2	109.4	97.7	107.3	110.9	154.3	173.3*	163.9
27	96.0	108.5	100.8	123.8	133.4	102.9	92.0	111.1*	109.6	158.3	176.7	162.8
28	94.9	**	101.4	124.2	132.6*	97.9	94.1	104.1	107.5	156.2	180.2	180.7
29	94.5	106.8	99.8	132.9	129.8	98.6	99.7	98.0	109.3	158.2*		178.4
30	93.3	101.6	100.7	128.0	126.1	95.7	95.7	94.6*	115.1	159.0		175.8
31		105.6		124.6	120.9		97.1		120.5*	156.4		167.6
MEAN	97.8	100.6	99.4	110.1	109.2	112.4	107.9	110.8	121.4	143.0	143.4	159.0

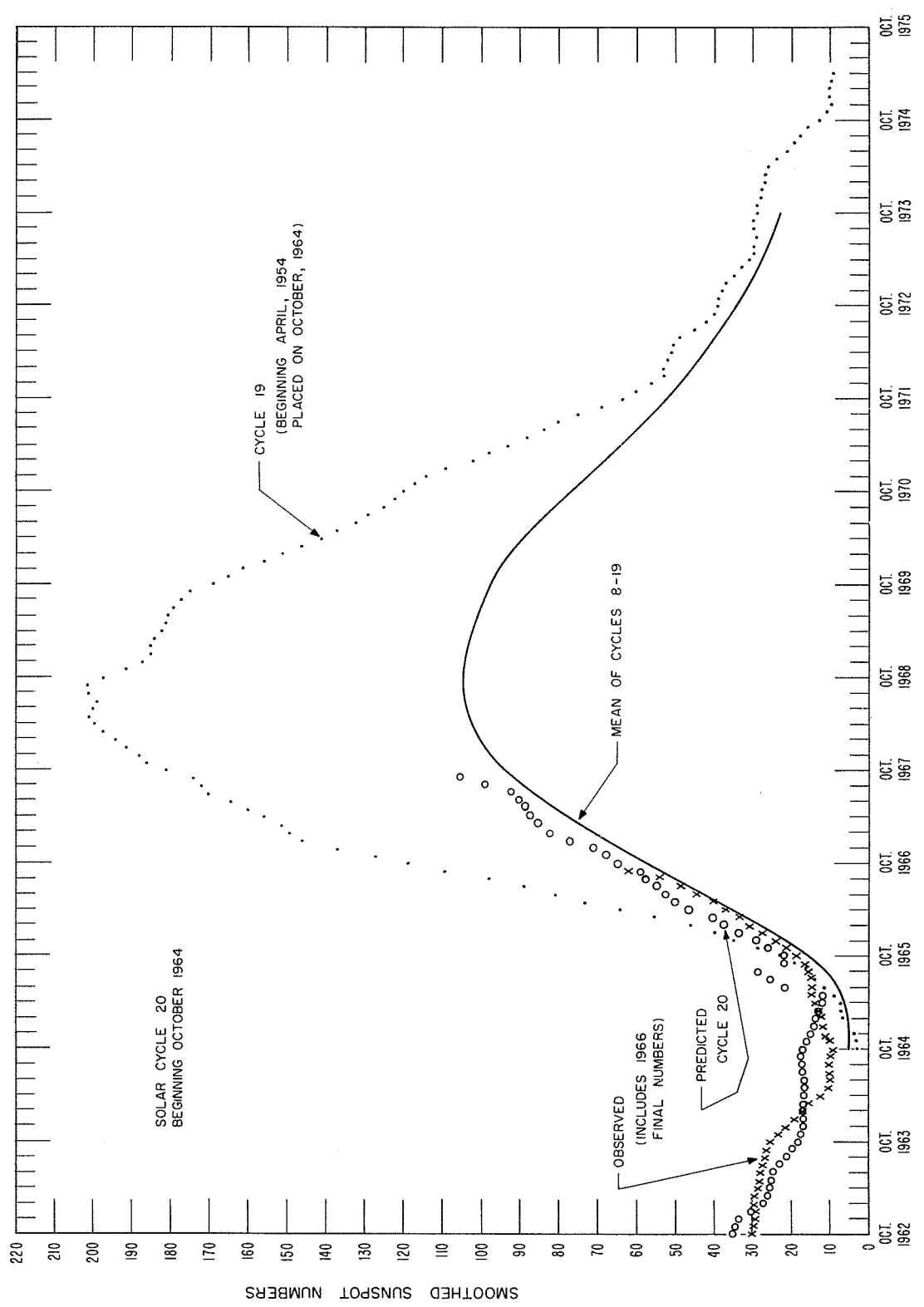
* Adjusted for Burst ** Burst in Progress

DAILY SOLAR INDICES

MARCH 1967

MARCH 1967	YEAR DAY	BARTELS 27-DAY CYCLE NUMBER	SUNSPOT NUMBERS		OBSERVED FLUX OTTAWA 2800	SOLAR FLUX ADJUSTED TO I A.U.					
			R_Z	$R_{A'}$		AFCRL 8800	AFCRL 4995	OTTAWA 2800	AFCRL 2695	AFCRL 1415	AFCRL 606
01	60	1	172	173	197.8	371	262	194.2	200.4	116.6	70.1
02	61	2	179	149	201.2 *	375	275	197.8	*205.2	121.8	70.1
03	62	3	191	160	199.8 *	362	270	196.4	*199.9	122.0	69.7
04	63	4	172	140	209.3 *	370	264	205.9	*206.2	120.9	69.8
05	64	5	164	135	182.1 *	350	246	179.2	*190.6	121.2	69.5
06	65	6	148	103	180.1 *	339	209	177.4	*180.5	128.9	60.3
07	66	7	137	98	166.3	321	191	163.8	164.1	117.0	57.4
08	67	8	98	84	158.3	312	188	156.1	154.0	101.1	58.4
09	68	9	85	82	160.2	306	189	157.9	153.2	94.2	61.2
10	69	10	86	82	150.4	300	171	148.4	140.2	89.1	59.2
11	70	11	74	70	143.5	293	159	141.6	131.4	84.7	57.3
12	71	12	65	57	135.9	293	159	134.3	128.7	81.9	56.5
13	72	13	49	61	130.7	299	162	129.1	125.2	81.5	56.6
14	73	14	44	65	128.6	295	161	127.2	122.3	79.6	56.1
15	74	15	49	48	133.9	302	172	132.4	130.8	82.8	57.0
16	75	16	58	78	133.4	302	172	132.1	129.6	84.2	58.4
17	76	17	70	67	133.9	307	176	132.6	134.6	86.7	58.6
18	77	18	73	68	133.4	307	176	132.2	134.3	86.7	58.8
19	78	19	58	63	137.1	305	172	136.0	132.9	90.3	61.0
20	79	20	73	78	141.5	305	182	140.4	135.2	90.0	61.5
21	80	21	88	83	148.2	314	194	147.2	142.6	91.5	60.3
22	81	22	108	104	150.6 *	326	201	149.5	*151.4	96.0	60.7
23	82	23	111	129	156.6	323	203	155.7	159.0	98.5	62.4
24	83	24	121	130	162.9	320	208	161.9	154.5	98.9	62.8
25	84	25	131	146	170.1	314	212	169.2	157.1	99.0	63.6
26	85	26	137	133	164.6 *	322	214	163.9	*168.4	101.9	65.4
27	86	27	122	120	163.5 *	319	213	162.8	*164.2	98.9	65.0
28	87	1	120	158	181.3	328	225	180.7	175.5	109.1	70.7
29	88	2	130	127	179.0	346	237	178.4	179.9	110.5	75.1
30	89	3	130	135	176.2	337	230	175.8	171.9	106.1	73.3
31	90	4	115	129	168.0 *	325	204	167.6	*158.4	100.9	71.4
MEAN			108.3	105	160.6	322	203	159.0	160.7	99.8	63.2

* Adjusted for Burst



PREDICTED AND OBSERVED SUNSPOT NUMBERS

SMOOTHED OBSERVED SUNSPOT NUMBERS
ZURICH, R_Z

	1964	1965	1966
JAN		11.7	27.7
FEB		12.0	31.3
MAR		12.5	34.5
APR		13.6	37.4
MAY		14.6	40.7
JUN		15.0	44.6
JUL		15.5	48.8
AUG		16.4	55.0
SEP		17.4	62.7
OCT	9.6	19.7	
NOV	10.2	22.3	
DEC	11.0	24.5	

CALCIUM PLAGE AND SUNSPOT REGIONS

MARCH 1967

MAR. 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	
1.4	S18	8706 (1)	8672	2200	3.5	ℓ Λ ℓ	1&4	2/23	13	30	10	b Λ d
1.5	N17	8707 (2)	New	2500	3.5	ℓ ⌜ ℓ	1	2/23	13	410	45	b Λ ℓ
3.2	S28	8709	8673	1300	3.0	ℓ Λ ℓ	4	2/24	14	30	14	b Λ d
3.4	N17	8708	8674	1900	2.0	ℓ Λ ℓ	3	2/24	14	(10)	(2)	b Λ ℓ
4.4	N32	8712	New	600	1.0	b \ d	1	2/28	8			
5.2	S23	8711	8681	(4300)	2.5	ℓ ⌜ ℓ	2	2/26	14	280	36	ℓ Λ ℓ
6.0	N16	8714 (3)	New	(6400)	3.0	ℓ Λ ℓ	1	≤2/28	≥12	140	18	ℓ Λ ℓ
6.2	N29	8713	8680	2400	2.0	ℓ Λ ℓ	3	<2/28	>12			
8.2	N31	8717	8680	1300	2.0	ℓ \ d	4	<3/3	>10			
8.9	N22	8715	8684	6700	3.5	ℓ ⌝ ℓ	2	3/2	13	60	9	ℓ Λ d
9.7	S22	8716 (4)	New	4500	3.5	ℓ Λ ℓ	1	3/2	15	580	75	ℓ ⌝ ℓ
11.0	S16	8723	New	(600)	(1.5)	b \ ℓ	1	3/11	6			
11.4	N36	8718	New	400	1.0	b Λ d	1	≤3/6	≥10			
12.1	S22	8724	8686	400	1.5	ℓ - d	3	<3/11	>5	10	1	b - d
12.4	N24	8719	8687	1600	2.0	ℓ Λ ℓ	2	3/6	13			
13.4	N19	8720	8688	1200	2.5	ℓ Λ d	2	3/7	12			
13.5	N38	8728	New	400	2.5	b \ d	1	3/13	2			
14.2	S23	8721	New	900	3.0	b ⌝ d	1	3/9	10			
15.2	N20	8722	New	2000	2.5	ℓ ⌝ ?	1	3/9	>11	(10)	(4)	b - d
16.0	N29	8729	New	1000	3.0	b / ?	1	3/13	>7	40	9	b Λ d
17.1	N16	8725	8693	1100	2.0	ℓ \ ℓ	3	3/11	12			
18.8	N21	8731	New	800	2.0	b / ℓ	1	3/14	11			
19.1	S15	8727 (5)	New	3200	3.0	ℓ ⌝ ℓ	1	3/12	14	140	44	ℓ Λ d
20.2	N16	8730	8695	(3300)	(2.5)	ℓ ⌝ ℓ	5	3/14	13	(10)	(5)	b - d
22.5	N23	8733	8698	7600	3.5	ℓ ⌝ ℓ	5	3/15	15	70	7	ℓ ⌝ d
22.9	N35	8734	New	500	2.0	ℓ ⌞ d	1	3/16	11			
23.0	S23	8736	8700a	1200	2.5	ℓ ⌝ ℓ	2	3/16	14			
23.9	N15	8738	New	600	3.5	b - ℓ	1	≤3/22	≥7			
24.7	S22	8747	New	(200)	1.5	b - d	1	3/26	4			
26.1	S23	8739 (6)	New	600	2.5	ℓ / ℓ	1	<3/22	>13	(10)	(8)	b ⌜ ℓ
26.5	S11	8748	New	(300)	2.0	b - d	1	≤3/28	≥2			
27.4	N22	8740	8704	(9800)	3.5	ℓ ⌜ ℓ	3	<3/22	>13	500	2	ℓ ⌝ ℓ
										340	39	ℓ Λ ℓ
27.5	S29	8742	8703	(900)	1.5	ℓ - d	4	3/22	10			
28.5	S17	8743	8706	600	2.5	ℓ ⌝ d	2	3/23	11			
29.3	N18	8741	8707	4000	3.0	ℓ Λ ℓ	2	3/22	14	10	17	b Λ d
30.1	S15	8750	New	500	1.0	b Λ d	1	≤3/28	≥6			
30.4	S29	8749	New	800	1.5	b - d	1	≤3/28	≥4			
31.3	S32	8755	New	(700)	(1.0)	b \ d	1	4/2	≥3			

(1) Region 8706 is primarily a new region, although it contains remnants of region 8672 of the previous rotation. There is a resurgence on the disk after Feb. 26th.

(2) Region 8707 is mostly a new plage, with a resurgence on the disk after Feb. 26th, among remnants of old plage related to region 8671

(3) Region 8714 is a new region, although it also contains some weak remnants of region 8682 of the previous rotation.

(4) Region 8716 is a new plage that has developed near the location of region 8685 of the previous rotation, but at a lower latitude.

(5) Region 8727 has developed near the location of 8694, but at a lower latitude.

(6) Region 8739 began its transit across the disk as the return of part of region 8703. A rapid development occurred after Mar. 27th with the appearance and growth of a spot, making its subsequent behavior like that of an active new region.

No calcium spectroheliograms were secured at the McMath-Hulbert Observatory on Mar. 5, 20, 21 and 27, 1967.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

MARCH 1967

Mar. 1967	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.	Mar. 1967	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	2320	S23	W47	(αp)2	16270	6	2225	S21	W25	(βf)4	16280
		N24	W37	(δ)6	16272			S16	W17	αp	16283
		S20	W13	(βf)2	16278			N16	W67	(βp)4	16285
		S16	W02	(βf)1	16279			N16	W19	(βp)3	16288
		S21	E41	(γ)5	16280			N23	E26	(βp)3	16290
		N11	E55	(βγ)2	16282			S19	E36	(βp)5	16291
		S16	E45	(βp)2	16283			N18	W42	(αp)2	16293
		S26	E16	(βf)2	16284						
		N16	W04	(βγ)5	16285	7	1745	S22	W35	(βf)4	16280
		S10	W24	(βp)2	16287			N14	W79	(βp)2	16285
		N14	E46	(β)2	16288			N15	W30	(βp)4	16288
		N20	W27	(βγ)5	16289			N23	E15	(βp)3	16290
								S19	E26	(βp)5	16291
2	2020	S23	W57	(αp)2	16270			N17	W55	(αp)2	16293
		N24	W49	(δ)6	16272			N14	W01	(αp)1	16294
		S20	W24	(βf)1	16278			N17	E06	(αp)1	16295
		S21	E30	(βf)4	16280						
		N11	E44	(βγ)2	16282	8	2200	S22	W50	(βp)4	16280
		S16	E34	(αp)2	16283			N15	W46	(βp)3	16288
		S27	E04	(βf)2	16284			N22	W0E	(β)2	16290
		N17	W14	(βγ)5	16285			S20	E11	(βp)4	16291
		S10	W40	(βp)2	16287			N18	W08	(αp)1	16295
		N15	E34	(βp)4	16288						
		N20	W39	(βf)3	16289	9	1535	S22	W60	(βf)4	16280
		N22	E78	(αf)3	16290			N15	W58	(βp)4	16288
		S18	E89	αp	16291			N23	W08	(βp)4	16290
								S21	E01	(βp)5	16291
3	1520	S23	W68	αp	16270			N17	W20	(αp)1	16295
		N24	W59	δ	16272			S16	E20	(αp)1	16296
		S20	W33	αf	16278						
		S20	E18	βf	16280	10					
		N10	E33	βp	16282	11					
		S15	E24	αp	16283	12	No Obs.				
		S26	W06	β	16284	13					
		N17	W24	βγ	16285	14					
		S09	W50	βp	16287						
		N14	E25	βp	16288	15	1710	N27	E02	βp	16297
		N20	W49	βf	16289			S13	E43	βp	16298
		N21	E67	αf	16290			N23	E50	αp	16299
		S18	E77	βp	16291			N29	E78	αp	16300
		S16	W22	β	16292						
						16	No Obs.				
4	No Obs.										
						17	1827	N28	W25	(βp)3	16297
5	1755	N25	W79	(αf)3	16272			S17	E15	(βp)4	16298
		S20	W09	(βγ)4	16280*			N24	E53	(βp)3	16300
		N12	E05	(β)2	16282			N18	E67	(βp)4	16301
		S16	W02	(αp)2	16283			N22	W62	(αf)1	16302
		N17	W52	(βp)5	16285			N18	E11	(αp)1	16303
		N15	W03	(βp)4	16288						
		N20	W26	(αf)2	16289	18-19	No Obs.				
		N24	E42	(βp)4	16290						
		S19	E52	(βp)5	16291						
		S16	W52	(αf)1	16292						

*Reversed polarities for cycle 20.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

MARCH 1967

Mar. 1967	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
20	1834	S17	W27	(βf)3	16298
		N24	E10	(αp)4	16300
		N18	E22	(αp)5	16301
		N18	W30	(βf)1	16303
		N22	E36	(βf)2	16304
		N23	E76	(αp)4	16305
		N17	E31	(βf)4	16306
		N11	W13	(β)1	No #
21	1842	S17	W39	(βf)2	16298
		N23	W0E	(βp)2	16300
		N18	E08	(αp)4	16301
		N17	W44	(β)1	16303
		N22	E21	(βf)2	16304
		N23	E71	(βp)5	16305
		N18	E16	(βf)3	16306
22	1805	S15	W50	βf	16298
		N24	W17	βp	16300
		N17	W10	αp	16301
		N17	W55	αf	16303
		N21	E10	αf	16304
		N23	E47	(αp)6	16305
		N17	E07	αp	16306
		N20	E60	(βγ)3	16307
		N25	E60	(βp)2	16308
		N16	E17	βp	16309
23	2230	N23	W33	(αp)3	16300
		N18	W20	(βp)4	16301
		N18	W70	(αf)1	16303
		N22	E32	(αp)6	16305
		N18	W09	(αf)2	16306
		N21	E49	(βp)3	16307
		N26	E48	(βf)2	16308
		N14	W0E	(βp)3	16309
		N15	E69	βp	16310
24	2130	N23	W46	(αp)3	16300
		N18	W36	(αp)4	16301
		N24	W20	(βf)2	16304
		N22	E19	(βf)6	16305
		N18	W28	(βf)2	16306
		N21	E34	(βp)4	16307
		N26	E34	(β)2	16308
		N15	W13	(βp)3	16309
		N14	E56	(βp)2	16310
		S17	E43	(αp)1	16311
		N23	E45	(βf)2	16312
25	1900	N24	W58	(αp)2	16300
		N18	W48	(αp)5	16301
		N25	W33	(βf)2	16304
		N22	E08	(αp)7	16305
		N18	W40	(αf)2	16306
		N21	E23	(βγ)4	16307
		N25	E21	(βf)1	16308
		N14	W27	(αp)2	16309
		N14	E45	(βγ)3	16310
		N23	E33	(βf)3	16312
		S25	W02	(βp)1	16313
		S20	E76	(αp)3	16314
26	No Obs.				
27	1610	N26	W56	(β)3	16304
		N22	W17	(βf)6	16305*
		N18	W63	(βp)3	16306
		N20	W03	(βγ)5	16307
		N14	W52	(αp)2	16309
		N15	E19	(βp)3	16310
		S17	E08	(αp)1	16311
		N23	E12	(αf)1	16312
		S23	W12	(βf)2	16313
		S20	E53	(βγ)4	16314
		S27	W17	(β)1	16315
28	1905	N26	W70	β	16304
		N22	W32	βf	16305
		N20	W19	βp	16307
		N13	W68	αp	16309
		N14	E03	βf	16310
		S18	W03	αp	16311
		S22	W28	β	16313
		S20	E38	βγ	16314
		S22	E51	βp	16316
		N17	W06	βp	16317
		N26	E73	αp	16318
29	2355	N22	W47	(βγ)5	16305
		N20	W36	(β)5	16307
		N16	W10	(βp)2	16310
		S22	W42	(βp)3	16313
		S19	E23	(βp)3	16314
		N17	W21	(βp)2	16317
		N26	E59	(βf)1	16318
		N16	E68	(αp)1	16319
30	1535	N21	W56	βγ	16305
		N20	W45	β	16307
		N15	W19	βp	16310
		N21	W27	αp	16312
		S23	W51	βp	16313
		S20	E13	βp	16314
		S22	E25	αp	16316
		N16	W31	βp	16317
		N26	E50	β	16318
		N16	E58	β	16319
		N23	E71	αp	16320
		N33	E36	αp	16321
31	No Obs.				

SOLAR FLARES

PRELIMINARY

MARCH 1967

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1967	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. %	
	MAR																		
SACP	01	1441	1525	1452	N13	E57	.867	8714	5.9	44	1N		C		1.45	2.16			
SACP	01	1547	1734	1712	N15	E48	.793	8714	5.3	107	1N		C		2.34	3.07			
SACP	01	1600	1631	1618	N24	W31	.688	8704	27.3	31	1F		C		1.82	2.10			
MCMA	01	1605	1613	1609	N26	W30	.697	8704	27.4	8	-F		C	1609	.31	.40			D
LOCK	01	1640	1651	1644	N23	W34	.706		27.1	11	-F		C	1644	1.00	1.40		10	
HUAN	01	1641	1650	1644	N24	W33	.705		27.2	9	-N	2	C	1644	1.00	1.17			E
MCMA	01	1643	1649	1644	N25	W32	.705	8704	27.3	6	-N		C	1644	.72	1.00			E
SACP	01	1655	1713	1705	N23	W33	.697	8704	27.2	18	1N		C		2.70	3.17			
HUAN	01	1658	1713	1703	N24	W35	.723	8704	27.1	15	1N	1	C	1703	2.06	2.46			
HALE	01	1858	2042	1909	N15	E46	.774		5.2	104	-N	2	C	1909	.36	.60			K
HALE	01			2013	N16	E46	.778							2013	.21	.30			K
SACP	01	1859	1936	1911	N15	E47	.784	8714	5.3	37	1N		C		1.72	2.22			
LOCK	01	1904	1917	1909	N16	E49	.807		5.5	13	-F		C	1909	.50	.90		10	
LOCK	01	1949	1956	1951	N22	W30	.662		27.6	7	-N		C	1951	.40	.60		20	
SACP	01	1949	2005	1950	N25	W30	.688	8704	27.6	16	1B		C		2.82	3.26			
SACP	01																		
SACP	01	1949	2040	2012	N14	E55	.853	8714	6.0	51	1N		C		1.63	2.36			
HALE	01	1950	1956	1951	N23	W28	.653		27.7	6	-B	2	C	1951	.36	.50			
MCMA	01	1950	1957D	1952	N25	W29	.680	8704	27.7	7D	-B		C	1952	.26	.40			D
MCMA	01	1952	2003	1958	N27	W33	.729	8704	27.4	11	-N		C	1958	.41	.60			E
HALE	01	1954	2006	2001	N25	W31	.696		27.5	12	-N	1	C	2001	.52	.70			
LOCK	01	1957	2006	2001	N26	W33	.721		27.4	9	-F		C	2001	.60	.90		10	
SACP	01	2034	2111	2040	N26	W32	.713	8704	27.5	37	1N		C		2.27	2.69			
LOCK	01	2038	2052	2043	N25	W34	.722		27.3	14	-F		C	2043	.50	.90		10	L
HALE	01	2039	2107	2043	N25	W31	.696		27.5	28	-N	1	C	2043	.41	.60			
SACP	01	2119	2234	2212	N26	W33	.721	8704	27.4	75	1N		C		2.28	2.71			
LOCK	01	2203	2215	2205	N25	W34	.722		27.4	12	-N		C	2205	.50	.80		20	L
HALE	01	2204	2229	2205U	N25	W33	.713		27.4	25	-N	1	P	2205	.62	.90			
SACP	01	2238	2354D	2351	N13	E51	.815	8714	5.8	76D	2N		C		5.03	6.74			
HALE	02	0028E	0110D	0040	N14	E42	.729	8714	5.2	42D	1N	1	P	0040	1.55	2.30			
MONT	02	1010	1030D		N19	E90	1.001		9.2	20D			C						
ARCE	02	1010	1030D		N19	E90	1.001	8715	9.2	20D	1B		C	1013	.51	2.90			A
HERS	02	1010E	1032D		N23	E90	1.001	8715	9.2	22D	1N		V						AD
CAPS	02	1111E	1120D		N25	W38	.755	8704	27.6	9D	1B	1							H
CAPF	02	1158E	1211		N21	W52	.851	8704	26.6	13D	1N		V	1159	1.18	2.16			
CAPF	02	1206E	1214		N12	W05	.340	8707	2.1	8D	1N		V	1210	2.35	.50			
MONT	02	1317E	1408D		N27	W38	.769	8704	27.7	51D	1B		C	1330	2.06				O
HUAN	02	1326	1333	1327	N27	W42	.800		27.4	7	-N	2	C	1327	.25	.32			D
SACP	02	1424	1447	1425	S26	E10	.359	8709	3.3	23	1N		C		2.44	2.43			
CAPS	02	1425E	1436		S27	E10	.374		3.4	11D	-N	2		1428	1.50	1.60		185	C
CAPF	02	1425E	1502		S26	E10	.359		3.4	37D	-N		V	1428	1.18	1.25			
HUAN	02	1429E	1449		S27	E11	.380		3.4	20D	-B	1	P	1430	.67	.67			E
CAPS	02	1436	1443		S21	E35	.595	8711	5.2	7	1N	2		1439	3.00	3.60		189	E
HUAN	02	1436	1444		S19	E34	.574		5.2	8	-N	1	C	1437	1.12	1.20			E
SACP	02	1436	1450	1437	S20	E33	.565		5.1	14	-B		C		1.35	1.44			
CAPS	02	1543E	1620D		N28	W38	.776	8704	27.8	37D	1N	2		1554	3.00	4.80		176	HL
CAPS	02													1605	4.50	7.20			W
SACP	02	1543	1628	1552	N28	W38	.776	8704	27.8	45	2N		C		6.48	8.25			
MCMA	02	1546E	1627D	1553	N26	W35	.738	8704	28.0	41D	1B		C	1553	1.19	2.10			FHK
CAPF	02	1555E	1615D		N29	W36	.768	8704	28.0	20D	2N		V	1557	3.53	5.47			H
SACP	02	1606	1633	1613	N15	W10	.412		1.9	27	-N		C		1.36	1.37			
CAPF	02	1607	1615D		N16	W10	.427		1.9	8D	-N		V	1611	1.76	1.96			
CAPS	02	1607	1620D		N13	W10	.383	8707	1.9	13D	1N	2		1614	2.00	2.10		164	E
MCMA	02	1607	1634	1610	N16	W07	.411	8707	2.1	27	-N		C	1610	.83	.90			E
LOCK	02	1620E	1625	1620E	N16	W12	.440		1.8	5D	-F		C	1620	.90	1.00		10	
LOCK	02	2055	2145	2105	S18	E90	.999	8716	9.6	50	1N		C	2105	.90	3.60		20	
HUAN	02	2058	2106		S19	E90	.999		9.6	8	-F	1	C	2103	.25				D
CATA	03	0730E	0900D	0820	S20	E90	.999	8716	10.1	90D	1B			0820	1.64			204	
MONT	03	0815	0835		S19	E90	.999		10.1	20			C						O
MONT	03	0900	0940	0903	N18	W20	.531		1.9	40	-B		C	0903	1.55				O
CAPS	03	0901E	0924		N16	W15	.463	8707	2.3	23D	1N	3		0904	2.00	2.30		200	CE
ARCE	03	0902	0919	0903	N18	W18	.513	8707	2.0	17	1N		C	0903	1.79	2.10			
CATA	03	0902E	0945D	0905	N16	W20	.508	8707	1.9	43D	1B			0905	2.64	3.10		309	
ARCE	03	0902	1000D	0922	N16	W25	.558		1.5	58D	-N		C	0922	1.13	1.40			Z
CAPS	03	0903	0928		N14	W20	.486		1.9	25	-F	3		0908	1.20	1.40		152	
CAPF	03	0911	0952D		N16	W20	.508	8707	1.9	41D	1N		V	0916	4.22	4.90			
HERS	03	0920E	0925D		N16	W22	.528		1.7	5D	-N		P	0921	.31	.60			E
CAPF	03	0940	1000D		S22	E24	.461	8711	5.2	20D	1N		V	0946	2.94	3.28			
MONT	03	0943	1020	0950	S20	E20	.394		4.9	37	-N		C	0950	1.03				OE
ARCE	03	0945	1000D		S24	E25	.488	8711	5.3	15D	1N		C	0949	2.77	3.20			F
CAPS	03	0952E	1002		S22	E26	.486	8711	5.4	10D	1F	2		0954	2.20	2.50		152	E
MCMA	03	1527	1539	1535	N21	W66	.943	8704	26.7	12	-N		C	1535	.62	1.80			E
SACP	03	1528	1543	1535	N21	W66	.943	8704	26.7	15	1N		C		1.26	2.44			
SACP	03	1636	1651	1641	N21	W67	.949		26.7	15	-N		C		.55	1.08			
SACP	03	1658	1712	1704	N28	W58	.914	8704	27.4	14	1N		C		1.91	3.22			
MCMA	03	1705E	1708D		N28	W58	.914	8704	27.4	3D	-B		C	1705	.62	1.60			EH
SACP	03	1740	1756	1747	N21	W67	.949	8704	26.7	16	1N		C		1.08	2.12			
MCMA	03	1743	1757	1748	N21	W75	.981	8704	26.1	14	-N		C	1748					E

SOLAR FLARES

PRELIMINARY

MARCH 1967

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1967 MAR																		
SACP	03	1755	1806	1759	S20	E78	.972		9.6	11	-F		C		.72	1.68			
MCMA	03	1755	1815	1808	S20	E78	.972	8716	9.6	20	1N		C	1808					E
HUAN	03	1925	1936		N20	W70	.961		26.6	11	-F	1	C	1930	.31				D
MCMA	03	1958	2007	2000	N20	W78	.989	8704	26.0	9	-F		C	2000					E
SACP	03	1958	2009	2000	N19	W67	.946	8704	26.8	11	1N		C		1.18	2.31			
SACP	03	2044	2056	2048	N22	W70	.964	8704	26.6	12	1N		C		1.26	2.76			
MCMA	03	2045E	2053	2047	N20	W78	.989	8704	26.0	8D	-B		C	2047					E
SACP	03	2108	2114	2110	S20	E75	.959	8716	9.5	6	1N		C		1.19	2.48			
HUAN	03	2137E	2150D		N20	W70	.961		26.7	13D	-B	1	P	2141	1.20				E
SACP	03	2138	2148	2142	N19	W68	.951	8704	26.8	10	1N		C		1.64	3.31			
HALE	03	2142E	2202D	2145U	N20	W62	.919		27.3	20D	-B	1	P	2145	.72				
SACP	03	2303	2323	2309	N23	W72	.972	8704	26.6	20	1N		C		2.02	4.66			
MONT	04	0717E	0730		S20	E76	.963	8716	10.0	13D	1N		C	0717	2.06				O
WEND	04	0718E	0733		N22	W74	.978	8704	26.8	15D	1N		V		4.13				
MONT	04	0721	0732	0724	N21	W76	.984	8704	26.6	11	1B		C	0724	1.03				OH
WEND	04	0746	0813		N23	W65	.942	8704	27.4	27	2N		V		6.19				
CATA	04	0750E	0805D	0756	N28	W70	.971	8704	27.1	15D	1B			0756	.70			204	
MONT	04	0823	0831		N21	W76	.984	8704	26.6	8	1N		C	0828	1.03				OH
WEND	04	0824E	0852		N22	W74	.978	8704	26.8	28D	2N		V		10.31				
CATA	04	0830E	0845D	0830	N24	W80	.994	8704	26.4	15D	2B			0830	1.92			207	
ARCE	04	0830	0845	0833	N14	W85	.999	8704	26.0	15	1N		C	0833	.57	2.30			A
CAPF	04	0831	0917D		N21	W80	.993	8704	26.4	46D	2N		V	0836	1.76				H
MONT	04	0833	0850	0837	S20	E76	.963	8716	10.1	17	1F		C	0837	1.55				O
CATA	04	0835E	0845D	0836	S22	E73	.949		9.8	10D	-B			0836	.51			254	
CAPF	04	0837	0850		S22	E78	.971	8716	10.2	13	1N		V	0838	1.76				
ARCE	04	0840	0845		S22	E71	.938	8716	9.7	5	1N		C	0840	1.52				
ARCE	04														.95	2.20			
MONT	04	0920	0925	0922	N21	W77	.987	8704	26.6	5	1N		C	0922	.83				O
WEND	04	0953E	1007		N16	W34	.655	8707	1.9	14D	1F		V		3.09				
MONT	04	0954	1005	0956	N17	W37	.693	8707	1.6	11	1N		C	0956	1.03				O
WEND	04	0956	1120		S21	E08	.272	8711	5.0	84	2N		V		7.22				
WEND	04	0959	1023		N23	W67	.952	8704	27.4	24	1F		V		3.09				
CAPF	04	1003E	1030D		N21	W85	.999	8704	26.0	27D	1N		V	1006	.88				H
MONT	04	1014	1120	1050	S21	E09	.280		5.1	66	-B		C	1050	1.55				O
CAPS	04	1019E	1034D		S22	E11	.312		5.3	15D	-F	3		1022	.70	.70		146	C
CAPS	04	1043	1107		S20	E08	.258	8711	5.0	24	1B	3		1045	2.50	2.50		204	
CAPF	04	1058E	1115D		S21	E12	.309		5.4	17D	-N		V	1101	2.35	.25			
CATA	04	1100E	1200D	1104	S21	E10	.289	8711	5.2	60D	1N			1104	2.56	2.70		158	
WEND	04	1210	1223	1213	S25	W66	.908	8703	27.6	13	1B		V		4.64				
CAPS	04	1213	1220		N23	W61	.919		27.9	7	-B	3		1215	1.00			208	DV
MONT	04	1213	1300	1225	N26	W62	.932	8704	27.9	47	1N		C	1225	1.55				O
MONT	04	1240	1310	1247	S20	E75	.959	8716	10.2	30	1N		C	1247	1.03				O
WEND	04	1314	1342		N14	E12	.412	8714	5.5	28	1N		V		4.13				
WEND	04	1320	1420		S18	E68	.920	8716	9.7	60	2B		V		12.38				
MCMA	04	1321	1341D	1327	S17	E66	.906	8716	9.5	20D	-B		C	1327	.72	1.70			E
CAPS	04	1322E	1352		S16	E67	.913	8716	9.6	30D	1B	3		1326	2.00			234	C
MONT	04	1322	1358	1328	S20	E74	.954	8716	10.1	36	1B		C	1328	1.24				O
WEND	04	1332	1357		N16	W34	.655	8707	2.0	25	1F		V		3.09				
MONT	04	1340	1347		N17	W37	.693		1.8	7	-N		C	1344	.41				O
HUAN	04	1345E	1352D		N17	W36	.683		1.9	7D	-F	1	P	1345	.90	1.01			
SACP	04	1355E	1518U	1402E	S19	E68	.920	8716	9.7	83U	1F		C		1.66	2.86			
MONT	04	1421	1430D		S20	E74	.954	8716	10.1	9D	1N		C	1425	1.03				O
SACP	04	1424	1510	1427	N20	W79	.991	8704	26.7	46	1N		C		1.63				
WEND	04	1425	1500		N22	W80	.994	8704	26.6	35	2N		V		8.25				
HUAN	04	1446	1507		N20	W88	1.000		26.0	21	-F	1	C	1455	.50				D
HUAN	04	1643	1646D		N20	W88	1.000		26.1	3D	-F	1	P	1644	.52				D
SACP	04	1656	1706	1700	N23	W82	.997	8704	26.6	10	1N		C		.81				
HUAN	04	1657	1702D		N23	W88	1.000		26.1	5D	-F	1	P	1658	.31				D
SACP	04	1715	1734	1716	N25	W69	.963	8704	27.5	19	1B		C		1.54	3.28			
HALE	04	1717	1734	1718	N23	W67	.952	8704	27.7	17	1B	5	C	1718	1.03				
HALE	04											2		1723	1.24				
LOCK	04	1906	1955	1923	S21	E08	.272	8711	5.4	49	1N		C	1923	4.00	4.40		20	
HALE	04	1911	2000	1918	S23	E05	.284		5.2	49	-B	2	C	1918	1.75	1.80			F
SACP	04	1913	1952	1922	S23	E05	.284	8711	5.2	39	2N		C		7.18	7.06			
SACP	04	2102	2126	2107	S25	E03	.309	8711	5.1	24	1B		C		4.64	4.57			
HALE	04	2104	2130	2108	S23	E02	.274	8711	5.0	26	1B	2	C	2108	2.06	2.10			
CATA	05	0716E	0720D	0716	S24	W01	.289	8711	5.2	4D	1B			0716	2.29	2.40		302	
CAPS	05	0717E	0723		S23	E03	.276		5.5	6D	-F	2		0719	1.20	1.20		142	C
WEND	05	0727E	0747		S21	W03	.243	8711	5.1	20D	1N		V		5.16				
CAPS	05	0731	0742		S19	W01	.204		5.2	11	-F	3		0734	1.40	1.40		152	
CATA	05	0731E	0750D	0740	S20	W00	.221		5.3	19D	-B			0740	1.42	1.40		245	
WEND	05	0826	0846		S23	W02	.273	8711	5.2	20	1F		V		3.09				
CAPF	05	0841	0905		S19	W10	.263	8711	4.6	24	1N		V	0842	4.22	4.29			
WEND	05	0847	0903		S19	W09	.253	8711	4.7	16	1N		V		3.09				
CAPS	05	0850E	0900		S18	W07	.220		4.8	10D	-N	3		0853	1.30	1.30			CE
ARCE	05	0850	0900	0852	S18	W11	.262		4.5	10	-N		C	0852	.72	.80			H
CATA	05	0851E	0905D	0852	S19	W11	.274		4.5	14D	-B			0852	.98	1.00		252	
ARCE	05	0950	1000	0953	N25	W90	1.001	8704	26.7	10	1N		C	0953	.57	3.20			

SOLAR FLARES

PRELIMINARY

MARCH 1967

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-PORT-ANCE	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. %	
	1967 MAR																		
CAPF	05	1015E	1115D		N28	W75	.986	8704	27.8	60D	1N		V	1016	1.18				H
WEND	05	1019E	1109D		N23	W85	1.000	8704	27.1	50D	1N		V		5.16				
CAPS	05	1024	1058		N22	W78	.990	8704	27.6	34	1N	3		1028	1.10				EF
CAPF	05	1606E	1610D		N25	W90	1.001	8704	26.9	4D	1N		V	1607	8.82				H
ARCE	06	0918	0921D		N19	W75	.979	8707	28.8	3D	1N		V	0921	.72	2.10			
CAPS	06	0919E	0924D		N17	W75	.978	8707	28.8	5D	1N	2		0920	1.50			190	
HUAN	06	1331E	1418D		N17	E32	.641	8715	9.0	47D	2N	1	P	1332	6.14	6.84			
SACP	06	1356E	1448	1401	N17	E33	.651		9.1	52D	-F		C		1.57	1.75			
MCMA	06	1403E	1430D		N18	E30	.628	8715	8.8	27D	1N		C	1405	1.55	2.00			BF
LOCK	06	2255	2415	2312	N19	E08	.460	8715	7.6	80	1N		C	2312	4.10	4.50		20	L
SACP	06	2259	2353	2310	N17	E09	.436	8715	7.6	54	2N		C		6.58	6.67			
CAPS	07	0831E	0901D		S28	W50	.783	8709	3.6	30D	1N	2							
WEND	07	0927	1009		S19	E31	.535	8716	9.7	42	1N		V		4.13				
MCMA	08	2113E	2127D	2115	S20	W49	.756	8711	5.2	14D	-N		C	2115	.26	.60			D
SACP	08	2214U	2327U	2234U	S21	W51	.778	8711	5.1	73U	1F		C		2.27	2.90			
LOCK	08	2215	2252	2230	S24	W50	.773		5.2	37	-F		C	2230	.90	1.40		10	
HALE	08	2222E	2329D	2232U	S21	W50	.768	8711	5.2	67D	1N	1	P	2232	1.29	2.00			
WEND	09	1017E	1058		N23	W06	.512	8715	9.0	41D	1N		V		3.09				
WEND	09	1017E	1107		N26	W04	.551	8715	9.1	50D	1N		V		5.16				
CAPF	10	1550E	1605D		N21	W20	.565	8715	9.2	15D	1N		V	1555	1.76	2.14			
MCMA	10	1552	1625D	1558	N22	W20	.576	8715	9.2	33D	-N		C	1558	1.24	1.50			F
CAPS	11	0716E	0729		S18	W82	.985	8711	5.2	13D	1N	3		0721	1.50			170	C
ARCE	12	1049	1100D		S22	W90	.999	8711	5.7	11D	1B		C	1049	.57	3.20			
MONT	14	0807	0830		S26	E58	.850	8727	18.7	23	1N		C	0815	1.55				O
MONT	15	1145	1245	1155	S20	W84	.990	8716	9.2	60	1N		C	1155	1.03				OE
CAPS	15	1146E	1224D		S18	W77	.968	8716	9.7	38D	2F	2		1202	2.80			153	L
SACP	15	1418	1440	1423	S18	W78	.972		9.7	22	-N		C		.36	.85			
MONT	15	1420	1430D		S20	W85	.992	8716	9.2	10D	1N		C	1425	1.03				OE
CAPS	15	1420E	1437D		S20	W78	.972	8716	9.7	17D	1N	2		1422	.80				F
HERS	15	1424E	1428D	1425	S20	W80	.979	8716	9.6	4D	1N		P	1425	.72	3.60			E
SACP	15	2053	2108	2056	S17	E36	.594	8427	18.6	15	1N		C		2.46	2.67			
ARCE	16	0846	0855	0848	N25	E75	.984	8733	22.0	9	1N		C	0848	.69	2.00			
HALE	16	2343	2359	2347	N18	E79	.990	8733	22.9	16	1B	1	C	2347	.67				
MONT	17	0745	0815	0800	S15	E14	.273	8727	18.4	30	1N		C	0800	2.06				O
SACP	17	2148	2223	2202	N24	E53	.869	8733	21.9	35	1F		C		2.00	2.97			
HUAN	17	2152	2155D		N24	E55	.883	8733	22.0	3D	1N	1	P	2153	1.60	2.34			
LOCK	17	2152	2220	2202	N27	E50	.859	8733	21.7	28	1F		C	2202	1.10	2.10		10	
CATA	18	0842E	0910D	0852	S15	E08	.193	8727	19.0	28D	2B			0852	6.87	7.00		327	
CAPS	18	0842E	0911D		S14	E07	.169	8727	18.9	29D	1F	1		0844	4.00	4.00			CF
HALE	19	0244E	0309D	0254U	N22	E36	.716	8733	21.8	25D	1B	1	P	0254	2.37	3.40			
MONT	20	0800	0835	0807	N17	E36	.681		23.0	35	-B			0807	1.55				O
ARCE	20	0815E	0825		N21	E39	.737	8733	23.3	10D	1N		C	0820	1.52	2.00			H
CAPF	20	0850	1006		N17	E90	1.001		27.1	76			C						A
ARCE	20	0855E	0910D	0905	N19	E90	1.001	8740	27.1	15D	1N		C	0905	.89				A
CATA	20	0855E	0911D	0903	N12	E90	1.000	8740	27.1	16D	1N			0903	1.51			191	
MONT	20	0855	1000		N19	E90	1.001		27.1	65									
CAPS	20	1158	1226D		S22	W18	.389	8727	19.1	28D	1N	3		1211	2.00	2.10		164	E
CAPS	20	1348E	1356		N31	E26	.713	8733	22.5	8D	1N	3		1350	1.80	2.50		189	C
CAPS	20	1356	1415		N27	E22	.645	8733	22.2	19	2N	3		1404	4.00	5.20		212	
CAPF	20	1356	1418	1414	N19	E34	.675	8733	23.1	22	1N		V	1414	2.35	3.19			
SACP	20	1356	1424	1401	N18	E33	.657	8733	23.1	28	1N		C		2.20	2.46			
HUAN	20	1407E	1415D		N18	E32	.647		23.0	8D	-N	1	P	1407	1.08	1.22			E
SACP	20	2310	2400D	2345	N23	E21	.593	8733	22.5	50D	1N		C		2.57	2.77			
LOCK	20	2310	2415	2340	N24	E21	.605	8733	22.5	65	1N		C	2340	1.80	2.30		20	
SACP	21	1428	1511	1442	N19	E84	.998		27.9	43	-N		C		.92				
HUAN	21	1431	1453		N22	E85	.999	8740	28.0	22	1F	1	C	1443	1.03				
LOCK	21	1814	1835	1820	N21	E78	.989	8740	27.6	21	1N		C	1820	.90	2.80		20	L
SACP	21	1816E	1835U	1820	N19	E76	.982	8740	27.5	19U	1N		C		1.08				
SACP	21	1825	1848	1832	N24	E58	.902	8740	26.1	23	1N		C		1.45	2.39			
LOCK	21	1826	1850	1832	N25	E57	.899	8740	26.0	24	1F		C	1832	1.30	2.70		10	H
LOCK	21	2015	2045	2030	N21	E78	.989	8740	27.7	30	1F		C	2030	.90	2.80		10	H
SACP	21	2155	2215	2200	N26	W05	.550	8733	21.5	20	1N		C		2.19	2.30			
LOCK	21	2156	2213	2159	N25	W06	.538		21.5	17	-N		C	2159	1.10	1.30		20	L
SACP	22	0022	0044D	0034	N25	E70	.967	8740	27.3	22D	3B		C		6.46	14.33			

SOLAR FLARES

PRELIMINARY

MARCH 1967

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1967 MAR	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
LOCK	22	0025	0120D	0033	N25	E68	.958	8740	27.1	55D	3B		C	0033	4.70	12.70		30	L
ARCE	22	0942E	1005D		N25	E51	.857	8740	26.2	23D	1N		C	1005	1.04	2.00			Z
MCMA	23	1827	1910D	1853	N22	E46	.804	8740	27.2	43D	1N		C	1853	1.29	2.10			EH
HUAN	23	1849E	2007D		N24	E30	.677	8740	26.0	78D	1B	1	P	1931	4.02	4.65			H
LOCK	23	1915	2018	1934	N26	E31	.702	8740	26.1	63	1B		C	1934	2.50	3.10		30	H
MCMA	23	1920	2015	1930	N22	E46	.804	8740	27.3	55	2B		C	1930	3.09	5.00			F
SACP	23	2327	2358	2333	N26	E42	.792	8740	27.1	31	1B		C		3.30	4.26			
ISTA	24	0715E	0835		N22	W90	1.001	8731	17.6	80D	1N								
ISTA	24	0730	0805		N27	E40	.782		27.3	35	-N								
MONT	24	0734E	0900	0845	N23	E40	.757	8740	27.3	86D	1N			0845	2.06				OE
ISTA	24	0735	0800		N26	E41	.784		27.4	25	-N								
CATA	24	0745E	0810D	0750	N22	E36	.715	8740	27.0	25D	1B			0750	2.55	3.60		296	
ARCE	24	0800E	0835D		N27	E41	.790	8740	27.4	35D	1N		C	0800	1.93	3.10			
ARCE	24	0800E	1000D		N18	W85	.999		18.0	120D	-N		C	0808	.35	1.50			
ARCE	24													0950	1.26				
CATA	24	0810E	1020D	0810	N20	W85	.999	8731	18.0	130D	1B			0810	.78			269	
WEND	25	0706E	0731		N23	E26	.632	8740	27.2	25D	1N		V		4.13				
CAPS	25	0711E	0725		N20	E30	.642	8740	27.5	14D	1F	3		0715	4.00	5.00		152	CE
WEND	25	1007E	1026		S19	W87	.996	8727	18.9	19D	1N		V		4.13				
MONT	25	1031E	1034D		N25	W27	.660		23.4	3D	-B			1031	.62				O
CAPS	25	1032E	1039		N22	W26	.623	8733	23.5	7D	1F	3		1035	1.70	2.20		152	C
CAPS	25	1135E	1154D		N25	E12	.559	8740	26.4	19D	1N	3		1149	2.90	3.50		164	CEH
MONT	25	1145	1210	1148	N28	E13	.603		26.5	25	-B			1148	1.03				O
CAPS	25	1226E	1238		S17	E77	.969	8745	31.3	12D	1N	3		1229	.90				CE
WEND	25	1246E	1312		N27	E09	.573	8740	26.2	26D	1F		V		3.09				
CAPF	25	1246E	1313		N26	E18	.605		26.9	27D	-F		V	1250	.59	.74			
CAPF	25	1246	1315D		S27	E90	.999	8727	1.3	29D	1N		V	1250	.59				L
LOCK	25	1852	2020	1915	N27	E16	.605	8740	27.0	88	1B		C	1915	2.70	3.50		20	L
MCMA	25	1856	2027	1914	N25	E24	.636	8740	27.6	91	1N		C	1914	1.86	2.50			FL
HUAN	25	1900	1932		N28	E22	.654		27.4	32	-N	1	C	1910	1.28	1.43			E
SACP	25	1929E	2024D	1929U	N26	E19	.612	8740	27.2	55D	1N		C		3.28	3.58			
HUAN	25	1934	1953	1939	N26	E12	.572		26.7	19	-N	2	C	1939	.41	.44			D
HUAN	25	1947	2000D		N24	E12	.545		26.7	13D	-F	1	C	1948	.25	.26			D
CAPS	26	0634E	0657		N23	E13	.536	8740	27.2	23D	1N	2		0639	1.70	2.00		182	CE
CAPS	26	0656E	0725		N25	W41	.778	8733	23.2	29D	1F	3		0710	3.00	4.50		149	
WEND	26	0658E	0726		N25	W36	.735	8733	23.6	28D	1F		V		5.16				
CAPS	26	0702E	0717		S19	E71	.939	8745	31.6	15D	1N	3		0705	1.60			166	CE
CATA	26	0705E	0720D	0710	S20	E68	.921		31.4	15D	-B			0710	.57			224	
WEND	26	0707E	0723		S19	E67	.914	8745	31.3	16D	1N		V		3.09				
CAPS	26	0743E	0755		N21	E05	.474		26.7	12D	-B	3		0748	1.60	1.80		204	C
CATA	26	0743E	0755D	0745	N22	E08	.498		26.9	12D	-B			0745	.94	1.00		313	
CAPF	26	0745E	0758		N20	E13	.496	8740	27.3	13D	1N		V	0747	1.76	2.05			
ISTA	26	0745E	0805		N23	E06	.506		26.8	20D	-N								
ISTA	26	0800	0945D		N22	W03	.485		26.1	105D	-N								
MONT	26	0828E	0930		N23	E00	.498		26.4	62D	-B			0830	.41				O
CAPS	26	0915E	0951		N21	W02	.468	8740	26.2	36D	1N	3		0930	2.00	2.20		164	CE
CATA	26	0915E	0955D	0930	N21	E01	.467		26.5	40D	-B			0930	1.55	1.70		327	
WEND	26	0918	0955		N21	W03	.469	8740	26.2	37	1N		V		3.09				
WEND	26	1400E	1420D		S19	E65	.900	8745	31.5	20D	1N		V		4.13				
SACP	26	1400	1428	1412	S19	E66	.907	8745	31.5	28	1F		C		1.91	3.16			
MCMA	26	1403	1425	1415	S19	E67	.914	8745	31.6	22	-N		C	1415	.62	1.60			E
CAPS	26	1405E	1428		S15	E68	.921	8745	31.7	23D	1N	3		1418	1.50			170	C
CAPF	26	1416E	1426D		S20	E64	.893	8745	31.4	10D	1N		V	1417	1.18	2.51			
SACP	26	1413	1429	1422	N25	W02	.528	8740	26.4	16	1F		C		2.38	2.49			
MCMA	26	1415	1425	1420	N26	W03	.544	8740	26.4	10	-N		C	1420	.52	.60			E
HUAN	26	1416	1426	1421	N26	W03	.544		26.4	10	-N	2	C	1421	.58	.60			E
CAPS	26	1420	1425		N24	W04	.516		26.3	5	1F	3		1421	2.20	2.50		142	
SACP	26	1446	1514	1451	N21	W07	.480	8740	26.1	28	1N		C		4.65	4.78			
HUAN	26	1448	1512	1451	N21	W07	.480	8740	26.1	24	1N	2	C	1451	2.27	2.33			H
CAPS	26	1450E	1502		N20	W09	.474		25.9	12D	1B	3		1452	4.00	4.60		220	CV
SACP	26	1541	1758	1655	N25	E05	.533	8740	27.0	137	3B		C		16.43	17.26			
HUAN	26	1542	1623	1606	N24	E02	.514	8740	26.8	41	1N	2	C	1606	2.51	2.60			E
CAPS	26	1546	1559		N24	E01	.513		26.7	13	-N	3		1555				170	E
MCMA	26	1603	1620	1605	N24	E04	.516	8740	27.0	17	-B		C	1605	1.55	1.80			EL
CAPS	26	1604	1619		N24	E01	.513	8740	26.7	15	1B	3		1607	3.00	3.50		220	F
MCMA	26	1630	1743	1650	N28	E07	.581	8740	27.2	73	3N		C	1650	10.31	13.00			FIL
HUAN	26	1638E	1723D		N25	E03	.530	8740	26.9	45D	2N	1	P	1700	9.02	9.55			L
HALE	26	1711E	1815	1711U	N26	E05	.548	8740	27.1	64D	2B	1	P	1711	8.66	10.40			FI
SACP	26	1830	1843	1835	N25	W64	.939	8733	22.0	13	1F		C		2.37	4.45			
LOCK	26	1830	1850	1835	N24	W66	.947	8733	21.8	20	1N		C	1835	1.40	3.50		20	L
HUAN	26	1832	1837		N27	W68	.961		21.7	5	-N	1	C	1834	.93	1.50			E
CAPS	27	1233	1308		S19	E52	.787	8745	31.4	35	1N	3		1247	1.50	2.60		170	E
CAPF	27	1243E	1308D		S19	E53	.797		31.5	25D	-N		V	1244	1.76	1.37			
SACP	27	1443	1508	1455	N24	W05	.518	8740	27.2	25	1N		C		2.02	2.11			
CAPS	27	1445	1457D		N23	W06	.506	8740	27.2	12D	1N	2		1447	2.00	2.20		164	F

SOLAR FLARES

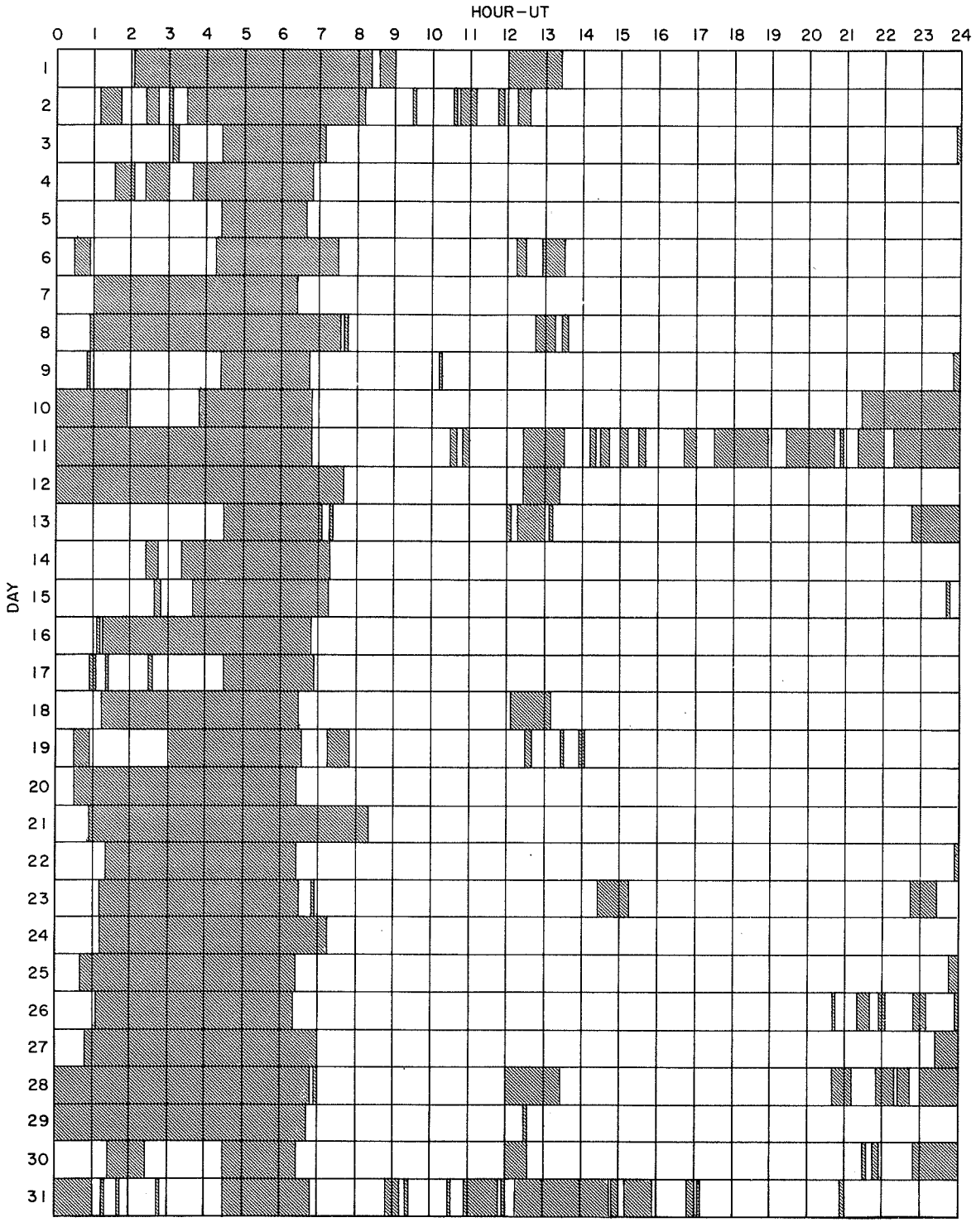
PRELIMINARY

MARCH 1967

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-PORT-ANCE	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. %	
	1967 MAR																		
CAPS	27	1551	1635D		N23	W08	.512	8740	27.1	44D	1N	2		1631	3.20	3.80		170	FW
CAPF	27	1558E	1637		N19	W01	.436		27.6	39D	-N		V	1559	1.18	1.31			
HUAN	27	1558	1649D		N25	W06	.535	8740	27.2	51D	1N	1	P	1613	2.99	3.14			E
SACP	27	1601	1653	1614	N24	W06	.520	8740	27.2	52	2N		C		8.11	8.46			
CAPF	27	1605E	1637		N23	W04	.501	8740	27.4	32D	1N		V	1617	3.53	4.11			H
LOCK	27	1716	1815	1730	N22	W23	.596	8740	26.0	59	1N		C	1730	2.10	2.70		20	HL
SACP	27	1720	1752	1730	N25	W23	.628	8740	26.0	32	1N		C		2.38	2.62			
HUAN	27	1740E	1745D		N26	W24	.646		25.9	5D	-N	1	P	1740	1.00	1.13			EH
LOCK	27	2042	2112	2052	N18	E19	.516	8741	29.3	30	1F		C	2052	1.80	2.20		10	L
HUAN	27	2045	2057	2048	N19	E20	.537		29.4	12	-F	2	C	2048	.91	.96			E
LOCK	27	2107	2205	2113	N23	W23	.606	8740	26.2	58	1B		C	2113	2.50	3.30		30	H
LOCK	27												C	2129					
HUAN	27	2121E	2127D		N24	W26	.641	8740	25.9	6D	1N	1	P	2127	1.96	2.18			H
SACP	27	2134E	2136D	2134E	N23	W24	.615	8740	26.1	2D	1N		P		2.63	2.87			
CAPS	28	1531E	1550D		S23	W25	.485	8739	26.8	19D	1N	1		1533	3.50	4.00		164	F
SACP	28	1731	1806	1740	N24	W36	.727	8740	26.0	35	1N		C		2.13	2.56			
LOCK	28	1734	1752D	1740	N21	W38	.725	8740	25.9	18D	1B		C	1740	2.70	4.10		30	H
SACP	28	1909	1934	1916	N25	W33	.709	8740	26.3	25	1N		C		2.11	2.50			
CATA	29	1156E	1215D	1200	S28	E36	.645	8745	1.2	19D	1N			1200	2.72	3.60		191	
LOCK	29	1725	1817	1740	N21	W30	.649	8740	27.5	52	1B		C	1740	3.80	4.90		30	
MCMA	29	1727	1809	1735	N21	W28	.630	8740	27.6	42	1B		C	1735	1.55	2.10			EH
HUAN	29	1731	1831	1740	N22	W30	.657	8740	27.5	60	1B	2	C	1740	3.42	3.90			
HALE	29	1753E	1835	1753U	N21	W30	.649	8740	27.5	42D	1B	2	P	1753	2.78	3.70			FI
HALE	29	1830	1840	1832	N18	E68	.948	8752	3.9	10	1N	2	C	1832	.62				
HUAN	29	2124	2127D		N18	E68	.948		4.0	3D	-B	1	P	2127	.55				D
MCMA	29	2124	2129	2126	N20	E73	.972	8752	4.4	5	-B		C	2126	.52	1.70			D
HALE	29	2125	2129	2127	N17	E67	.942	8752	3.9	4	1B	2	C	2127	.93				
LOCK	29	2125	2130	2127	N15	E66	.933	8752	3.8	5	1B		C	2127	1.00	2.30		30	H
LOCK	29	2245	2312	2251	N23	W39	.747	8740	27.0	27	1B		C	2251	2.40	3.60		30	
LOCK	30	0022	0045	0024	S25	W41	.685	8739	26.9	23	1B		C	0024	2.10	2.90		30	
WEND	30	0755E	0825		N21	W38	.725	8740	27.5	30D	1N		V		4.13				
ISTA	30	0755	0835		N20	W37	.708	8740	27.6	40	1B								
WEND	30	0804	0850D		N22	W48	.820	8740	26.7	46D	1N		V		3.09				
ISTA	30	0805	0840		N22	W48	.820		26.7	35	-N								
ARCE	30	0810E	0840		N21	W40	.743	8740	27.3	30D	1N		C	0810	1.61	2.40			F
ARCE	30	0814E	0907D		N23	W48	.824	8740	26.7	53D	2B		P	0907	4.67	8.10			FZ
ISTA	30	0825	0835		N23	W38	.738		27.5	10	-F								
WEND	30	0851	0940	0901	N24	W46	.812	8740	26.9	49	2N		V		10.31				
HERS	30	0855E	0935	0902	N23	W47	.816	8740	26.8	40D	2B		C	0901	3.30	5.60	3.10	110	CF
ARCE	30	0856E	0907D		N27	W37	.756	8740	27.6	11D	1N		P	0907	1.73	2.70			
HALE	30	1920	1932	1929	N18	W50	.821		27.1	12	-N	2	C	1929	.15	.30			
LOCK	30	1924	1930	1927	N17	W52	.835		26.9	6	-F		C	1927	.30	.50		10	
HALE	30	1935	2015	1940	N21	W55	.872		26.7	40	-N	1	C	1940	.31	.60			
LOCK	30	1936	2012	1940	N20	W54	.861	8740	26.8	36	1F		C	1940	1.20	2.20		10	
HALE	31	0353	0430D	0400	N27	W64	.942	8740	26.4	37D	1B	2	C	0400	.31				IK
HALE	31				N23	W63	.929					2	P	0412	1.13				
HALE	31	0357	0409	0358	S23	W57	.840		26.9	12	-N	2	C	0358	.15	.30			
HUAN	31	1201E	1213D		N25	E40	.768	8751	3.5	12D	1B	1	P	1206	2.37	3.00			C
CAPF	31	1602E	1637		S21	W01	.249	8745	31.6	35D	1N		V	1622	2.58	2.63			H
MCMA	31	1610E	1627D		S20	W01	.232	8745	31.6	17D	-N		C	1618	.72	.72			E
HUAN	31	1622E	1637D		N23	W70	.963	8740	26.4	15D	1N	1	P	1631	1.63				
MCMA	31	1631E	1648D		N20	W67	.946	8740	26.7	17D	1B		P	1631	1.24	3.00			EH
CAPF	31	1635E	1645D		N24	W68	.956	8740	26.6	10D	1N		V	1639	1.76				
LOCK	31	1731E	1732D	1732U	N17	W64	.924	8740	26.9	1D	1N		C	1732	1.00	2.30		20	
LOCK	31	1731E	1732D	1732U	N29	W57	.909	8740	27.5	1D	1N		C	1732	1.20	2.50		20	
LOCK	31	1747	1830	1756	N19	W64	.927	8740	26.9	43	1N		C	1756	1.00	2.20		20	H
HALE	31	1757	1835	1812	N18	W62	.913		27.1	38	-B	2	C	1812	.15				
LOCK	31	2059E	2110	2059E	N19	W65	.933	8740	27.0	11D	1N		C	2059	1.00	2.30		20	
LOCK	31	2117	2200	2120	N19	W65	.933	8740	27.0	43	1N		C	2120	1.30	2.70		20	H
HUAN	31	2132E	2149D		N19	W68	.949		26.8	17D	-B	1	P	2145	.55				D
HALE	31	2132	2210	2133	N18	W62	.913		27.2	38	-N	1	C	2133	.15				
LOCK	31	2200	2330	2220	N19	W65	.933	8740	27.0	90	1N		C	2220	1.00	2.30		20	
LOCK	31	2212	2235D	2235	N19	W65	.933	8740	27.0	23D			C	2235	1.00	2.30		20	
LOCK	31	2212	2230	2218	S24	W68	.922	8739	26.8	18	1N		C	2218	1.40	3.20		20	
HALE	31	2215	2233	2220	S23	W68	.922		26.8	18	-N	2	C	2220	.41				
LOCK	31	2335	0103D	2353	S24	W72	.945	8739	26.6	88D	1N		C	2353	1.90	4.80		20	H
HALE	31	2348	0004D	0004U	N20	W68	.951	8740	26.9	16D	1B	2	P	0004	1.24				FI
LOCK	31	2359	0050	0017	S23	W69	.928	8739	26.8	51	1N		C	0017	1.30	2.70		20	

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

MARCH 1967



Observatories included:

Arcetri, Capri-F (German), Capri-S (Swedish), Catania, Haleakala, Huancayo, Herstmonceux, Istanboul, Lockheed, McMath-Hulbert, Monte Mario, Sacramento Peak, Wendelstein

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1967

MAR. 1967	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} W_m^{-2} $(c/s)^{-1}$ PEAK	FLUX DENSITY MEAN	INT	REMARKS
1	8800	SGMR	3	1414.7	1415.6	4.8	9.6	3.2		
	4995	SGMR	3	1412.9	1415.5	7.5	38.0	12.7		
	606	SGMR	40	1446.6	1447.3	3.6	9.6	2.0		
	4995	SGMR	29	1420.4	1420.4	11.6	9.9	3.3		
	2800	OTTA	1	1508	1508.3	1.5	3.6	1.8		
	2700	PENN	1	1508.1	1508.4	.5	3.5	1.8		
	2695	SGMR	1	1507.9	1508.2	.7	5.2	1.7		
	1415	SGMR	45	1507.8	1508.2	1.6	151.0	64.8		
	960	PENN	1	1508	1508.3	.6	5.2	1.6		
	606	SGMR	41	1633.4	1633.4	3.8	65.0	8.0		
	2700	PENN	20	1908	2004.4	104	5.7	3.4		
	10700	PENN	45	1949.4	1950.8	4.2	42.6	11.0		
	8800	SGMR	45	1949.4	1950.7	2.8	40.5	8.0		
	4995	SGMR	45	1949.2	1949.4	3.8	12.3	2.5		
	4995	SGMR	45	1949.2	1951	3.8	12.3	2.5		
	2800	OTTA	21	1910		90	4.8	3.0		
	2800	OTTA	4	1949	1949.5	4	14.0	6.0		
	2700	PENN	3	1949.2	1949.5	5.2	17.1	5.7		
	2695	SGMR	45	1949	1949.4	7	23.3	7.0		
	1415	SGMR	1	1949.4	1949.6	5.3	5.4	1.8		
	960	PENN	45	1949.5	1949.6	.9	5.1	2.4		
	960	PENN	1	2010.4	2010.6	.5	2.4	1.2		
	960	PENN	3	2013.1	2013.3	.4	17.2	8.6		
	606	SGMR	1	1948.7	1950	6.3	3.5	1.2		
	606	SGMR	45	1957.7	1959.3	6.8	15.7	5.2		
	10700	PENN	45	2203.1	2204.4	3.7	108.6	17.9		
	2700	PENT	28	2203		1	3.0	1.5		
	2700	PENN	3	2203	2204.4	3.8	13.4	3.2		
	2700	PENT	4	2204	2204.4	2	13.8	6.9		
	960	PENN	1	2152.9	2153.3	.5	5.8	2.5		
	960	PENN	1	2204	2204.3	.6	3.5	1.1		
	2700	PENT	29	2206		8	3.0	1.5		
	2700	PENT	1	2351	2351.2	1	5.2	2.6		
2	8800	SGMR	20	1307	1309.5	16	9.7	4.0		
	2800	OTTA	21	1258	1316	30	5.8	2.9		
	2800	OTTA	1	1309	1309.8	2	4.4	2.2		
	2800	OTTA	1	1325	1325.5	1.5	2.4	1.2		
	2700	PENN	20	1308.4	1309.8	16.5	6.4	3.2		
	4995	SGMR	20	1305.8	1316.8	18.2	14.1	6.0		
	2695	SGMR	20	1300.4	1315	33.6	10.2	4.0		
	10700	PENN	3	1424.6	1424.8	7.8				
	10700	PENN	3	1435.6	1436.2	4.2				
	8800	SGMR	3	1424.6	1424.7	5.4	69.0	10.0		
	8800	SGMR	3	1436	1436.5	1.4	19.0	3.0		
	4995	SGMR	3	1424.2	1424.5	3.8	88.5	15.0		
	4995	SGMR	3	1435.4	1436.6	2.6	50.0	8.0		
	2800	OTTA	3	1424	1425	2.5	27.0	13.0		
	2800	OTTA	4	1436	1436.5	2	36.0	14.0		
	2700	PENN	3	1424	1424.8	4	27.4	8.4		
	2700	PENN	3	1435.6	1436.6	1.4	51.2	18.8		
	2695	SGMR	45	1424	1424.9	4	89.6	8.5		
	2695	SGMR	45	1435.7	1436.5	1.8	89.6	15.0		
	1415	SGMR	45	1424.3	1424.7	3.7	55.4	7.6		
	1415	SGMR	45	1435.8	1436.3	2.6	28.4	4.0		
	960	PENN	1	1424.5	1425	5.3	1.2	0.6		
	606	SGMR	45	1424.2	1424.7	2.8	13.2	4.0		
	4995	SGMR	29	1438	1438	7	8.8	4.0		
	2800	OTTA	29	1438		6	2.8	1.8		
	2700	PENN	29	1437	1437	14	7.3	3.7		
	2695	SGMR	29	1437.5	1437.5	7.5	6.7	3.0		
	2800	OTTA	21	1540	1630	220	13.0	6.5		
	10700	PENN	3	1556.6	1601	9	146.1	62.7		
	8800	SGMR	3	1558.4	1600.8	11.6	101.0	20.0		
	4995	SGMR	3	1556.2	1600.5	13.8	178.0	36.0		
	2800	OTTA	2	1549	1550	5	3.5	2.0		
	2800	OTTA	3	1558	1600.5	8	160.0	40.0		
	2800	OTTA	1	1630	1631	2	3.4	1.7		
	2700	PENN	20	1543.2	1549.7	72.8	9.4	4.7		
	2700	PENN	3	1557.8	1600.6	9	132.2	37.6		
	2700	PENN		1606.8	1630.7	34	7.5	3.8		
	2695	SGMR	3	1557.5	1600.4	12.5	198.0	40.0		
	1415	SGMR	3	1557.5	1600.7	8	66.4	11.4		
	1415	SGMR	45	1629.8	1630.5	2.9	20.0	4.0		
	960	PENN	1	1559.6	1600.7	3	1.0	0.5		
	606	SGMR	45	1551.6	1600.7	16.4	52.5	5.0		
	606	SGMR	45	1629.8	1630.5	2.7	97.0	15.0		
	10700	PENN	29	1605.6	1605.6	36	33.2	13.1		
	2800	OTTA	1	2011.7	2012	1.5	2.0	1.0		
	2800	OTTA	1	2126	2127.5	3	3.0	1.5		
	2700	PENT	21	2358	2403	17	6.6	3.3		
	2700	PENT	1	2358	2358.5	2	5.2	2.6		
	2700	PENT	1	2406	2406.5	1	6.6	4.0		
3	10700	PENN	45	1317.9	1323.3	9.8	29.8	9.8		
	8800	SGMR	3	1319	1319.3	1	11.0	3.5		
	8800	SGMR	3	1322	1323.3	2.2	27.5	9.0		
	4995	SGMR	1	1318.5	1319.2	1.5	3.8	1.1		
	4995	SGMR	3	1321.6	1323.3	5.4	19.0	6.0		
	4995	SGMR	3	1328.5	1329.2	2.5	7.6	2.5		
	2800	OTTA	21	1317	1319.5	25	5.0	2.5		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1967

MAR. 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
3	2800	OTTA	1	1323	1323.2	1.5	4.2	2.1		
	2700	PENN	20	1317	1323.5	15	5.4	2.6		
	2695	SGMR	1	1323	1323.3	3.5	6.4	2.0		
	2695	SGMR	20	1329	1329.5	3	3.2	1.6		
	1415	SGMR	20	1318	1319.5	11	1.7	.6		
	2695	SGMR	1	1318.5	1319.4	1.6	4.8	1.5		
	606	SGMR	20	1317	1319.8	11	.7	.2		
	4995	SGMR	1	1437.6	1438.3	1	5.7	1.9		
	2695	SGMR	1	1438.3	1438.5	.7	2.2	.7		
	2800	OTTA	20	1450	1455	10	2.6	1.3		
	10700	PENN	3	1620	1620.9	1.5	15.3	7.7		
	2800	OTTA	23	1500		390	9.6	4.5		
	10700	PENN	20	1658.6	1705	16.4	11.5	5.8		
	2800	OTTA	1	1702.5	1703	1	1.8	1.0		
	2800	OTTA	1	1704.5	1704.2	.5	1.0	0.5		
	2700	PENN	20	1642	1703.1	38.7	6.2	3.1		
	2800	OTTA	1	1745.9	1746	.5	1.0	0.5		
	10700	PENN	20	1802.1	1823.8	57.8	7.9	4.7		
	2700	PENN	20	1815.2	1822	29.5	6.1	3.0		
	10700	PENN	20	2030.1	2031.4	32	10.0	5.0		
	8800	SGMR	3	2031.2	2031.5	2.8	9.1	4.5		
	4995	SGMR	1	2031.2	2031.4	6.2	4.0	1.8		
	2700	PENN	20	2030	2035	29.4	1.8	0.9		
	960	PENN	1	2026.2	2026.3	.4	3.4	1.7		
	960	PENN	1	2029	2029.2	.3	4.3	2.2		
	960	PENN	1	2031.6	2031.9	.4	4.3	2.2		
	10700	PENN	40	2136.3	2143	19.7	16.3	8.2		
	2800	OTTA	21	2140	2145	10	2.6	1.3		
	2800	OTTA	1	2140	2141	2	5.6	2.8		
	2700	PENN	20	2139.2	2140.9	11.9	8.1	4.1		
	1415	SGMR	40	2140.6	2141	3.4	4.5	1.8		
	606	SGMR	40	2140.6	2143	3.4	2.6	1.0		
	2700	PENT	1	2213.5	2213.9	.5	2.4	1.2		
	960	PENN	1	2210.7	2210.8	.3	4.9	2.4		
	10700	PENN	3	2221.3		1				DUR. SUNSET
	2700	PENN	1	2221.2		1				DUR. SUNSET
	2700	PENT	21	2250	2303	45	4.4	2.2		
	2700	PENT	4	2309	2311	6	13.0	7.0		
4	8800	SGMR	3	1212.5	1213.4	18.5	754.0	251.0		
	4995	SGMR	3	1213	1213.4	14	337.0	112.0		
	2695	SGMR	3	1213.2	1213.6	19.8	243.0	81.0		
	1415	SGMR	3	1213.2	1213.6	20.3	69.6	23.2		
	606	SGMR	1	1213.4	1213.7	.5	3.3	1.1		
	10700	PENN	3	1235.6	1236.4	2.8	36.3	9.4		
	8800	SGMR	3	1235	1236	10.5	31.2	10.4		
	4995	SGMR	3	1235	1236	10.5	20.6	6.9		
	2700	PENN	3	1235.4	1236.9	3.4	8.8	3.8		
	2695	SGMR	3	1235	1236	11	10.3	3.4		
	1415	SGMR	1	1234.5	1236	11	3.6	1.2		
	606	SGMR	1	1234.3	1236	5.7	3.3	1.1		
	2800	OTTA	21	1250 E	1313	140 D	14.0			
	2800	OTTA	21	1250 E	1313	50 D	14.0			
	10700	PENN	45	1319.9	1325.4	7.4	151.2	67.8		
	8800	SGMR	45	1320	1325.3	11	153.0	50.0		
	4995	SGMR	45	1319.6	1325.3	12.4	150.0	35.0		
	2800	OTTA	3	1323.2	1325.7	6	60.0	22.0		
	2800	OTTA	21	1340	1415	90	9.0			
	2700	PENN	3	1321.4	1325.5	5.6	61.1	27.1		
	2695	SGMR	45	1320.7	1325.5	12.3	85.0	15.0		
	1415	SGMR	3	1320.3	1325.3	8.7	14.4	4.8		
	960	PENN	1	1324.5	1325.6	3.3	.6	0.3		
	606	SGMR	20	1435.2	1442.2	14.4	3.3	1.1		
	10700	PENN	29	1327.3	1327.3	86	41.7	20.8		
	8800	SGMR	29	1331	1331	67	21.6	10.8		
	4995	SGMR	29	1332	1332	61	15.2	7.6		
	2700	PENN	29	1327	1327	60	25.9	12.9		
	2695	SGMR	29	1333	1333	100	14.0	7.0		
	2800	OTTA	21	1515	1600	195	10.2	6.0		
	10700	PENN	20	1539.3	1540.9	25	7.1	3.5		
	10700	PENN	1	1640.1	1642.7	3.9	7.0	3.5		
	2700	PENN	20	1521.5	1559.1	101.5	5.4	2.7		
	10700	PENN	3	1715.4	1716.2	4.3	871.2	176.0		
	10700	PENN	45	1719.7	1721	4.7	106.6	29.7		
	10700	PENN	3	1725.4	1725.5	3.2	187.0	19.3		
	10700	PENN	26	1730.6	1730.6		6.7			
	8800	SGMR	45	1715.6	1716.2	18.4	1330.0	443.0		
	4995	SGMR	45	1715.6	1716.2	18.4	975.0	325.0		
	2800	OTTA	45	1715.8	1716.5	15	378.0	75.0		
	2800	OTTA	45	1715.8	1716.5	4	378.0			
	2800	OTTA	45	1719.8	1721	5.5	108.0			
	2800	OTTA	45	1725.3	1726	5.5	75.0			
	2700	PENN	3	1715.8	1716.3	4.2	288.7	111.1		
	2700	PENN	3	1720	1721	3.2	50.1	25.1		
	2700	PENN	3	1725.4	1726	1.8	43.6	18.3		
	2700	PENN	26	1735	1735		3.0			
	2695	SGMR	45	1715.6	1716.2	18.4	530.0	243.0		
	1415	SGMR	45	1716	1716.5	19	90.0	30.0		
	960	PENN	45	1715.8	1716	1.3	48.5	11.8		
	960	PENN	1	1720.1	1721.7	4.5	.9	0.5		
	960	PENN	1	1725.6	1726.1	2	.4	0.3		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1967

MAR. 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
4	606	SGMR	45	1715.9	1716.1	12.5	9638.0	350.0		
	486	WASH	3	1717	1727	11	100.0D			
	2700	PENN	29	1720	1720	12	29.4	14.7		
	960	PENN	29	1717.1	1717.1	14	.9	0.5		
	606	SGMR	29	1728.4	1728.4	76.6	4.8	2.4		
	10700	PENN	20	1914.2	1922.3	21	11.5	5.0		
	8800	SGMR	22	1911	1919.4	26	8.1	2.7		
	4995	SGMR	22	1910	1914.3	27	19.0	6.3		
	2800	OTTA	21	1910	1920	45	13.2	6.6		
	2800	OTTA	1	1914	1914.6	3	5.6	3.6		
	2695	SGMR	22	1911.2	1915.7	25.8	16.8	5.6		
	1415	SGMR	22	1910	1915.7	27	5.4	1.8		
	606	SGMR	23	1853	1914.6	49	3.2	1.1		
	606	SGMR	4	1914.2	1914.6	.6	12.8	4.3		
	10700	PENN	3	2037.2	2037.6	1.4	23.2	6.5		
	10700	PENN	3	2104.6	2105.4	2.4	15.5	7.7		
	8800	SGMR	3	2104.6	2105.5	10.4	20.3	6.8		
	4995	SGMR	45	2104.6	2105.4	12.4	24.7	8.0		
	2800	OTTA	21	2104	2105	75	4.4	2.2		
	2800	OTTA	46	2104	2105.5	65	29.0	12.0		
	2700	PENN	3	2104	2105.5	2.7	26.8	11.6		
	2700	PENN	45	2107.6	2109.8	2.8	13.7	5.4		
	2695	SGMR	45	2104.4	2105.4	12.6	32.8	11.0		
	1415	SGMR	45	2104.3	2105.3	12.7	14.4	4.8		
	960	PENN	1	2104.6	2105.6	2.6	1.3	0.6		
	960	PENN	1	2107.9	2110	4.3	1.3	0.6		
	606	SGMR	45	2103.8	2104	9.2	171.0	40.0		
	606	SGMR	3	2126.6	2126.8	.4	9.6	3.2		
	486	WASH	45	2105	2106	2	120.0D			
	2800	OTTA	29	2110.5		10	6.4	3.2		
	2700	PENN	29	2106.7	2106.7	61	3.9	1.9		
	2700	PENT	20	2338	2340	10	3.8	1.9		
5		PENN		1238	2240					HEAVY RAIN
	2800	OTTA	21	1320		365	6.6	4.0		
	10700	PENN	3	1340	1340.2	.9	27.4	13.7		
	8800	SGMR	3	1339.3	1340	1.6	21.6	10.8		
	4995	SGMR	3	1339.2	1340	1.5	15.6	7.8		
	2800	OTTA	1	1339.8	1340.1	1	3.4	1.7		
	2700	PENN	1	1340	1340.4	1.1	3.9	2.0		
	2695	SGMR	1	1338.7	1340.2	2.7	7.0	3.5		
	1415	SGMR	45	1339.8	1339.9	1.1	31.4	8.0		
	8800	SGMR	3	1446.3	1446.6	6.7	10.8	3.6		
	4995	SGMR	3	1444.6	1446.5	8.4	8.6	2.9		
	10700	PENN	1	1547.9	1548.1	1.1	3.5	1.7		
	2800	OTTA	1	1547.7	1548	2	2.0	1.0		
	2700	PENN	1	1547.6	1548	1.4	3.8	1.9		
	10700	PENN	3	1602.7	1602.8	.5	93.0	46.5		
	8800	SGMR	3	1602.7	1602.8	1.3	110.0	55.0		
	4995	SGMR	3	1602.7	1602.8	3.3	84.0	42.0		
	2800	OTTA	4	1602.6	1602.9	2	30.0	15.0		
	2800	OTTA	29	1604.6		5	3.4	1.7		
	2700	PENN	3	1602.8	1602.9	3	23.3	10.8		
	2695	SGMR	45	1602.7	1603.1	4.3	35.0	10.7		
	1415	SGMR	1	1602.7	1602.8	2.3	4.0	2.0		
	2800	OTTA	1	1923.5	1923.6	.5	1.2	0.6		
	10700	PENN	3	2003.4	2003.7	.8	10.7	5.3		
	2700	PENT	1	2003.4	2003.7	1	1.0	0.5		
	2700	PENN	1	2003.6	2003.8	.8	.8	0.4		
	2700	PENN	20	2015.2	2104.4	103.8	5.9	2.7		
	10700	PENN	1	2022.2	2022.4	.9	7.1	3.6		
	10700	PENN	1	2026.5	2027	1.4	7.1	3.6		
	2800	OTTA	1	2022.4	2022.5	2.5	1.8	0.9		
	2700	PENN	1	2022.4	2022.4	1.3	1.6	0.8		
	2700	PENN	1	2024.8	2025.3	2.2	1.6	0.8		
6	2800	OTTA	20	1315	1355	350	13.0	6.5		
	10700	PENN	20	1720	1727.7	21.2	12.5	4.6		
	10700	PENN	1	2125.2	2126.1	2.4	7.3	3.7		
	2700	PENT	20	2255	2310	100 D	11.0			
7	10700	PENN	1	1641	1645.9	7.5	7.0	2.6		
	2700	PENN	1	1644.8	1645.9	2.4	2.3	1.0		
	960	PENN	1	1646.3	1646.5	.5	1.0	0.4		
	10700	PENN	20	1723.8	1726.8	15.8	7.1	3.1		
	2700	PENN	20	1723.8	1726.8	8	2.4	1.4		
	10700	PENN	1	1824.8	1826	1.8	3.6	1.8		
	960	PENN	1	1824.9	1825	.5	1.1	0.4		
	10700	PENN	1	1852.5	1854.9	5.7	3.6	1.8		
	960	PENN	1	1854.4	1854.8	1.2	3.8	0.4		
	486	WASH	45	1853	1855	12	85.0			
8	8800	SGMR	40	1519	1520	6.5	5.0	1.7		
	4995	SGMR	40	1519	1520.4	8	7.6	2.5		
	2800	OTTA	45	1519.5	1520	1.5	2.0	1.5		
	2700	PENN	1	1517.6	1518.3	3.3	2.1	1.1		
	2695	SGMR	40	1519	1520.4	6	2.6	1.0		
	1415	SGMR	40	1518.9	1519.9	3.1	5.7	2.0		
	606	SGMR	40	1518.9	1519	3.1	8.9	3.0		
	960	PENN	3	1913.9	1914.1	.3	10.7	5.3		
	2700	PENN	45	1941.6	1942	2.7	28.3	3.9		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1967

MAR. 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
8	960	PENN	3	2141.8	2142	.4	8.2	4.1		
9	960	PENN	3	1859	1859.2	.3	8.0	4.0		
	960	PENN	3	1918	1918.2	.3	7.9	3.9		
	960	PENN	3	2123.2	2123.5	.5	14.4	4.7		
	10700	PENN	3	2150.6	2151	1.5	8.9	4.5		
	2800	OTTA	1	2144.5	2144.7	.5	1.4	1.0		
	2700	PENN	1	2144.2	2144.9	2.2	1.8	0.9		
10	2800	OTTA	20	1320	1325	15	3.4	1.7		
	2800	OTTA	20	1413	1418	25	4.4	2.2		
	2800	OTTA	20	1550	1554	12	2.0	1.0		
	2700	PENN	1	1933.7	1937.6	5.1	3.9	1.2		
	2800	OTTA	26	2035		30	4.5			
	2800	OTTA	20	2050	2104	45	2.0	1.0		
	960	PENN	45	2119.2	2119.3	.8	13.7	6.8		
	2700	PENT	1	2306	2306.5	1	2.6	1.3		
11	10700	PENN	3	1239.2	1240.5	6	13.3	6.6		
	10700	PENN	3	1245.6	1245.8	1	10.4	5.2		
	10700	PENN	3	1246.9	1247.5	1	17.4	8.7		
	2700	PENN	20	1237	1240.8	9.2	3.7	1.8		
	2700	PENN	20	1320.5	1324.1	14	2.5	1.3		
	2700	PENN	3	2221.8	2222.4	1.1	8.6	4.3		
	960	PENN	1	2224.4	2224.7	1	1.3	0.7		
12	10700	PENN	3	1228	1228.3	.6	7.9	4.0		
	2700	PENN	1	1512.9	1513.2	.9	.8	0.4		
	960	PENN	45	1921.7	1924.2	4	14.5	4.8		
	960	PENN	3	1928.3	1928.8	.6	10.6	5.3		
	960	PENN	3	2013	2013.2	.4	9.9	5.0		
	960	PENN	1	2104.8	2105	.4	5.7	2.8		
	960	PENN	1	2114.2	2114.4	.4	2.8	1.4		
	960	PENN	1	2115.8	2116	.4	3.8	1.9		
13	10700	PENN	3	1947.5	1947.5	.6	28.0	5.6		
14	2700	PENN	24	2025	2258		4.5			
	2700	PENT	1	2306	2306.5	1	2.6	1.3		
15	2700	PENT	1	0044.5	0045	1	1.6	0.8		
	2700	PENT	4	0047	0048	1.5	10.0	5.0		
	184	BOUL	6	0158	0159	11			2	
	4995	SGMR	22	1415	1422	29	9.4	4.7		
	2800	OTTA	24	1418		7	2.5			
	2800	OTTA	4	1418	1422	7	13.0	6.5		
	2700	PENN	20	1418.8	1422.1	39	11.3	2.3		
	2695	SGMR	22	1415	1422	28	15.0	7.5		
	1415	SGMR	22	1415	1421.5	29	5.1	2.5		
	606	SGMR	22	1419	1421	6	1.0	.5		
	10700	PENN	3	1841.6	1841.6	1.2	31.0	9.0		
	10700	PENN	1	2011.3	2011.7	1.5	5.2	2.6		
	10700	PENN	1	2017.8	2018.8	3	6.5	3.3		
	10700	PENN	1	2027.6	2027.8	2.3	4.4	2.2		
	4995	SGMR	3	2054	2054.8	4	15.6	5.2		
	2800	OTTA	21	2053	2055	12	1.6	0.8		
	2800	OTTA	4	2054	2055	1.5	15.0	6.0		
	2700	PENN	3	2053.7	2054.9	2	12.0	2.6		
	2695	SGMR	3	2054	2054.8	4	12.0	4.0		
	1415	SGMR	3	2053.8	2054	4.2	10.2	3.5		
	606	SGMR	4	2053.8	2055	4.2	24.8	8.3		
16	10700	PENN	3	1258	1258.5	1.3	16.3	8.2		
	2700	PENN	1	1258.1	1258.5	1.3	4.5	2.2		
	2800	OTTA	20	2050	2052	10	1.6	0.8		
	184	BOUL	6	2113	2114	1			2	
	2700	PENT	2	2354.5	2355	1	2.8	1.4		
	2700	PENT	2	2416	2417	6	3.8	1.9		
17	2700	PENN	26	1544.8	1544.8		4.5			
	2700	PENN	26	1914.6	1921.4	17.4	9.8	4.9		
	2800	OTTA	20	1929.5	1930.5	8	1.2	0.6		
	2800	OTTA	21	2015	2025	60	2.4	1.2		
	2800	OTTA	1	2040	2041	3	2.0	1.0		
	2800	OTTA	1	2052.3	2052.5	.5	.8	0.4		
	2700	PENN	1	2039.2	2041.4	5.8	5.9	2.9		
	960	PENN	1	2024.6	2025	.5	7.4	3.7		
	960	PENN	3	2048.8	2048.9	.3	9.5	4.7		
	960	PENN	1	2112.9	2113.1	.4	5.6	2.8		
	2800	OTTA	21	2151	2157	25	4.2	2.1		
	2800	OTTA	1	2151.5	2152.5	3	3.0	1.5		
	2700	PENN	20	2151.6	2152.4	22	4.7	2.4		
	960	PENN	1	2153.7	2153.8	.5	2.6	1.3		
18	10700	PENN	3	1333.9	1334.2	1.1	11.8	5.9		
	10700	PENN	1	1521.8	1521.9	.5	6.8	3.4		
	10700	PENN	3	1522.8	1523.1	.6	9.5	4.7		
	2700	PENN	20	1537	1539.3	9	4.4	2.1		
	2800	OTTA	20	1538	1539	15	4.2	2.1		
	2700	PENN	20	1709.6	1712.2	10.2	3.7	1.8		
	960	PENN	1	1745.2	1745.4	.8	1.3	0.7		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1967

MAR. 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
18	2700	PENN	20	1914.9	1925.4	100	3.8	1.9		
	10700	PENN	3	2036.9	2037.3	1.2	16.4	8.2		
	960	PENN	1	2136	2136.8	1.8	1.9	0.9		
19	2700	PENN	26	1844.2	1907	53.8	3.9	2.4		
	2700	PENN	26	1941.8	2004	33	3.5	1.8		
	184	BOUL	41	2115	2135	103			2	
	184	BOUL	41	2345	2350	15			2	
20	10700	PENN	45	1154.4	1202.6	14.6	479.1	155.6		
	8800	SGMR	45	1149	1202.2	30	300.0	100.0		
	4995	SGMR	45	1149	1202.2	28	198.0	66.0		
	2800	OTTA	4	1159	1202	10	60.0	35.0		
	2700	PENN	45	1154.8	1202.5	21.2	61.4	17.3		
	2695	SGMR	45	1148.5	1202.2	28.5	77.0	26.0		
	1415	SGMR	45	1148	1202.3	43	40.0	13.3		
	960	PENN	1	1201.5	1204.2	6.7	2.3	1.3		
	606	SGMR	45	1148	1201.7	51	36.3	7.0		
	10700	PENN	29	1209	1209	45	66.8	18.3		
	2800	OTTA	29	1209		10	11.0	5.5		
	2800	OTTA	20	1240	1249	50	4.6	2.3		
	606	SGMR	21	1247	1253.1	44	3.3	1.6		
	606	SGMR	3	1253	1253.1	.2	36.3	7.2		
	960	PENN	45	1340.7	1341.8	2	4.3	1.3		
	606	SGMR	4	1344.2	1346.7	6.8	22.1	7.4		
	184	BOUL	6	1346	1347	2.5			2	
	2800	OTTA	20	1357		110	3.8	2.0		
	10700	PENN	3	1403.4	1403.5	.2	10.3	5.1		
	2700	PENN	1	1403.1	1403.3	1.3	2.7	1.4		
	960	PENN	1	1404.3	1404.6	1.7	4.4	2.2		
	2700	PENN	26	1619	1648		16.9			
	606	SGMR	40	1713.5	1715.1	8.5	4.3	1.4		
	2800	OTTA	20	1930		90	2.0	1.0		
	960	PENN	3	2038.6	2038.8	.3	9.6	4.8		
	960	PENN	3	2215.6	2216	.7	8.8	1.1		
	2700	PENT	25	2300		10	6.0			
	2700	PENT	1	2300	2305	8	3.2	1.6		
21	2700	PENN	1	1445	1446.6	4.7	4.2	2.1		
	8800	SGMR	20	1636.2	1647.2	50.8	6.4	3.0		
	4995	SGMR	20	1636.2	1639.5	25.8	5.8	2.5		
	2700	PENN	20	1554.5	1640	89.8	6.1	3.1		
	2695	SGMR	20	1636.7	1642.5	25.3	3.3	1.5		
	1415	SGMR	20	1638.4	1646	14.6	1.8	1.0		
	184	BOUL	6	1705	1705	3			2	
	2700	PENN	26	1727.6	1734.7	17	3.2	1.6		
	486	WASH	3	1730	1731	2	150.0D			
	2700	PENN	20	1815.9	1830.4	24	3.9	2.0		
	2695	SGMR	20	1826.7	1830.3	10.3	2.0	1.0		
	1415	SGMR	45	1830.1	1830.3	2.9	15.6	4.0		
	960	PENN	45	1829.9	1830.1	1.3	30.3	7.3		
	606	SGMR	45	1830	1830.3	1.7	57.7	15.0		
	2700	PENN	24	1903.5	2049.6		5.2			
	2800	OTTA	22	1953	2100	105	2.6	1.3		
	960	PENN	1	2014	2014.2	.4	7.3	3.7		
	960	PENN	1	2021.8	2022.1	.6	6.6	3.3		
	10700	PENN	3	2158.7	2159.2	6.3	26.8	6.9		
	2800	OTTA	45	2157	2059.2	12	42.0	11.0		
	2800	OTTA	45	2157	2059.2	4.5	42.0			
	2800	OTTA	45	2201.5	2202.6	7.5	12.0			
	2700	PENN	45	2156.4	2158.9	15.8	39.8	5.1		
	960	PENN	1	2156.3	2156.6	.5	7.1	3.5		
22	2800	OTTA	28	0019		6.5	4.8	3.0		
	2800	OTTA	46	0025.5	0130	80 D	1500.0			
	2800	OTTA	46	0025.5	0032	33	1100.0			
	2800	OTTA	46	0058	0130	47 D	1500.0			
	184	BOUL	41	0034	0036	14			1	
	10700	PENN	3	1220.4	1221	1.4	8.5	4.3		
	184	BOUL	24	1330	1331	28			1	
	2800	OTTA	21	1500		190	4.0	3.0		
	2800	OTTA	1	1506.8	1507.5	1	1.0	0.5		
	2700	PENN	20	1524.2	1528.2	8.8	2.7	1.3		
	2800	OTTA	1	1527.5	1528.3	1.5	1.6	0.8		
	960	PENN	1	1529.4	1529.5	.3	1.5	0.7		
	2800	OTTA	20	1600	1604	10	2.6	1.3		
	8800	SGMR	3	1733.5	1733.6	1.5	9.0	1.0		
	4995	SGMR	3	1733.4	1733.6	1.6	23.0	6.0		
	2800	OTTA	2	1720.3	1721.3	3.5	2.6	1.3		
	2800	OTTA	3	1733.5	1733.7	1.5	7.6	3.8		
	2700	PENN	1	1720.9	1721.2	2.1	2.0	1.0		
	2700	PENN	3	1733.3	1733.6	2.6	8.2	4.1		
	2695	SGMR	3	1733.5	1733.7	1.5	8.1	1.0		
	1415	SGMR	1	1733.5	1733.7	1.5	3.7	1.0		
	960	PENN	1	1731.9	1732.1	.5	2.0	1.0		
	2800	OTTA	29	1735		10	2.0	1.0		
	2800	OTTA	20	1820	1935	200	6.2	4.0		
	2700	PENN	1	1849	1849.2	.5	2.1	1.0		
	2695	SGMR	3	2106.4	2106.7	.6	24.3	6.0		
	1415	SGMR	1	2106.8	2106.9	.2	3.6	1.0		
	960	PENN	3	1908.1	1908.3	.4	9.5	4.8		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1967

MAR. 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
22	960	PENN	1	2114.6	2114.7	.3	6.3	3.1		
	606	SGMR	4	2117.5	2117.5	.3	91.3	10.0		
	486	WASH	3	1929	1930	2	120.0			
	184	BOUL	42	1846	1925	133			1	
	10700	PENN	3	2202.8	2203.1	2.1	9.6	4.8		
	2800	OTTA	1	2203.5	2204.2	1.5	2.6	1.3		
	2700	PENN	1	2203.6	2204.5	1.2	4.2	2.1		
	960	PENN	1	2203.5	2203.6	.6	4.1	2.1		
	2700	PENT	24	2220		45	6.6			
	960	PENN	1	2217.5	2217.6	.3	4.6	2.3		
23	2800	OTTA	22	1255	1302	35	5.0	2.5		
	184	BOUL	42	1313	1336	55			1	
	2800	OTTA	26	1347	1420	125	8.0	4.0		
	184	BOUL	6	1453	1453	.5			2	
	10700	PENN	3	1854.7	1855.1	.6	10.4	5.2		
	8800	SGMR	1	1854.6	1854.7	1	6.4	1.5		
	4995	SGMR	3	1854.6	1854.7	1.4	12.1	3.0		
	2800	OTTA	23	1840	1850	30	2.4	1.2		
	2800	OTTA	1	1854.9	1855	.5	3.0	1.5		
	2700	PENN	1	1854.7	1854.8	1.1	2.7	1.3		
	2695	SGMR	22	1847	1854.9	13	6.0	3.0		
	1415	SGMR	3	1856.7	1856.8	.3	46.8	15.0		
	960	PENN	1	1831.3	1831.6	.4	2.5	1.2		
	960	PENN	1	1859	1859.3	.6	1.4	0.7		
	606	SGMR	40	1840	1843.2	16	7.3	2.5		
	184	BOUL	7	1854	1928	54			3	
	10700	PENN	3	1914.4	1914.6	2.6	18.0	9.0		
	8800	SGMR	45	1914.4	1914.6	4.3	12.8	4.5		
	4995	SGMR	45	1914.3	1914.6	2.7	32.6	10.5		
	2800	OTTA	3	1914.4	1914.6	2	14.0	4.0		
	2700	PENN	3	1907.9	1908.3	.6	10.0	5.0		
	2700	PENN	3	1914.5	1914.6	1.1	10.8	6.9		
	2695	SGMR	3	1914.4	1914.6	3.6	10.5	3.5		
	1415	SGMR	1	1914.4	1915.1	2.6	4.5	1.5		
	960	PENN	1	1909.4	1909.6	1.6	2.0	1.0		
	606	SGMR	1	1914.4	1914.6	2.6	2.4	.8		
	2700	PENN	29	1915.6	1915.6	165 D	3.4	3.0E		
	10700	PENN	3	1928.5	1929	.8	112.4	59.6		
	8800	SGMR	3	1920	1929	10	130.0	40.0		
	4995	SGMR	45	1919	1929.3	13	103.0	35.0		
	2800	OTTA	21	1919	1932	55	6.4	3.2		
	2800	OTTA	41	1923	1929	8	6.0			
	2700	PENN	45	1922.9	1929	8.4	57.5	12.5		
	2695	SGMR	45	1922	1929.3	10	79.0	25.0		
	1415	SGMR	45	1923	1929.3	9	48.8	18.0		
	960	PENN	1	1923.1	1923.3	.5	3.0	1.5		
	960	PENN	3	1928.6	1929	5	10.1	3.1		
	606	SGMR	45	1924	1929.7	10	110.5	33.0		
	10700	PENN	29	1929.3	1929.3	12.7	18.0	9.2		
	8800	SGMR	29	1930	1930	34.5	19.2	8.6		
	4995	SGMR	29	1932	1932	37	14.0	7.0		
	2700	PENN	29	1931.3	2200	150 D	10.1	8.0		
	2695	SGMR	29	1932	1932	35	9.0	4.5		
	1415	SGMR	29	1932	1932	10	5.3	2.6		
	606	SGMR	29	1934	1934	51	9.9	4.9		
	2800	OTTA	26	2150	2205	40	3.0	1.5		
	2700	PENT	21	2325	2328.2	95	8.4	4.2		
	2700	PENT	3	2329	2331	9	46.0	18.0		
24	2800	OTTA	1	1204	1206	4	5.4	2.7		
	606	SGMR	3	1312.6	1312.8	.4	40.0	20.0		
	8800	SGMR	1	1510	1513	8	6.6	2.2		
	4995	SGMR	3	1511.5	1513	6.5	9.3	3.1		
	2695	SGMR	1	1510	1513.1	8	6.2	2.1		
	2800	OTTA	1	1542.5	1543.2	3	3.4	1.7		
	2700	PENN	5	1535.7		8 D				
	8800	SGMR	1	1645.3	1645.5	1.3	6.6	2.2		
	4995	SGMR	3	1645	1645.3	2	14.0	7.0		
	2695	SGMR	20	1644.7	1645.3	8.3	1.6	.8		
	10700	PENN	20	1829.4	1835.5	11.4	8.4	4.2		
	8800	SGMR	22	1829	1836.1	21	11.0	5.5		
	4995	SGMR	22	1831	1836.1	20	18.0	9.0		
	2800	OTTA	24	1800		120	3.0			
	2800	OTTA	1	1835	1836.2	4	7.0	3.5		
	2700	PENN	20	1830.4	1938	229.6	4.6	3.1		
	2700	PENN	1	1834.9	1836.3	2.6	6.9	3.5		
	2695	SGMR	22	1829	1836.1	26	10.9	5.4		
	960	PENN	45	1824.1	1824.3	.8	3.9	1.9		
	960	PENN	45	1827.7	1828.5	1	10.9	5.1		
	960	PENN	3	1833.6	1833.7	.3	7.8	3.9		
	960	PENN	45	1835.5	1837.2	1.9	15.5	5.0		
	184	BOUL	6	1834	1835	2			2	
	8800	SGMR	3	2022.9	2023.1	1.1	8.3	4.1		
	4995	SGMR	4	2022.7	2023	11.3	8.1	2.0		
	960	PENN	3	2047.6	2047.7	.2	8.2	4.1		
	960	PENN	1	2216.1	2216.5	.6	4.9	2.4		
25	2800	OTTA	20	1230	1310	20	4.0	2.0		
	2800	OTTA	20	1750	1925	220	13.0	6.5		
	2700	PENN	20	1827	1924.4	192	13.2	6.6		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
MARCH 1967

MAR. 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
25	960	PENN	1	1933.5	1933.6	.6	6.0	3.0		
	960	PENN	1	2018	2018.2	.4	5.3	2.6		
	2700	PENN	20	2149	2158.4	40	4.3	2.2		
	2800	OTTA	20	2155	2158	30	3.4	2.0		
	960	PENN	1	2228	2228.1	.3	5.3	2.7		
	960	PENN	3	2231.3	2231.4	.3	16.4	8.2		
	486	WASH	3	2327	2328	2	50.0			
	2700	PENT	4	2352	2353	8	13.6	6.0		
26	2700	PENT	1	0014.5	0015	1.5	4.0	2.0		
	486	WASH	3	0014	0016	3	40.0			
	2700	PENT	29	0016		13	2.4	1.2		
	10700	PENN	45	1447.4	1450.5	9.2	61.6	14.0		
	8800	SGMR	45	1448	1450.5	10	66.0	16.0		
	4995	SGMR	45	1447.3	1450.5	5.2	50.0	10.0		
	2800	OTTA	21	1448	1455	25	4.0	2.0		
	2800	OTTA	4	1448	1449.2	4.5	21.0	10.0		
	2800	OTTA		1449.2	1449.4	.3	166.0			SPIKE
	2700	PENN	20	1446.6	1706	311.5	24.6	12.3		
	2700	PENN	45	1447.6	1449.2	4.7	128.2	15.9		
	2695	SGMR	45	1447.7	1449.3	6.3	187.9	46.0		
	1415	SGMR	45	1447.7	1449.3	4.9	63.0	15.0		
	1415	SGMR	45	1455.4	1456.2	4.6	41.5	9.0		
	960	PENN	1	1445.7	1450.7	6.9	2.6	1.3		
	606	SGMR	45	1447.7	1450.2	6.3	46.4	10.0		
	184	BOUL	6	1447	1449	5			3	
	606	SGMR	29	1454	1454	6	9.9	4.5		
	10700	PENN	3	1605	1605.4	3	18.2	9.1		
	8800	SGMR	3	1604.8	1605.4	2.5	36.0	8.0		
	4995	SGMR	3	1604.8	1605.4	1.8	56.0	14.0		
	2800	OTTA	4	1605	1605.6	2	48.0	20.0		
	2700	PENN	45	1605	1605.9	4.1	46.0	9.1		
	2695	SGMR	45	1604.8	1605.9	3.5	84.9	20.0		
	1415	SGMR	45	1605.1	1605.9	3.1	21.0	5.0		
	960	PENN	1	1604.6	1605.5	2.4	1.1	0.5		
	4995	SGMR	29	1606.6	1606.6	16.4	9.4	4.5		
	2800	OTTA	29	1607		8	6.8	3.4		
	1415	SGMR	29	1608.2	1608.2	12.8	2.8	1.3		
	2800	OTTA	21	1530	1703	330	25.0	7.0		
	10700	PENN	20	1603.6	1704.7	128.4	30.1	15.0		
	10700	PENN	3	1714.7	1716.7	4	13.8	6.9		
	8800	SGMR	20	1631	1703	60	19.5	6.0		
	8800	SGMR	3	1716.3	1717	3.7	10.4	2.0		
	4995	SGMR	20	1635.5	1703	66	53.0	17.0		
	4995	SGMR	3	1716	1716.7	3.6	15.1	3.0		
	2800	OTTA	3	1715.5	1716.8	4.5	11.4	5.7		
	2700	PENN	3	1715	1716.9	4.6	13.4	5.6		
	2695	SGMR	20	1636	1702	67.4	16.7	5.5		
	2695	SGMR	3	1716	1716.8	3	12.4	2.5		
	1415	SGMR	20	1633.5	1714	101.5	13.2	4.5		
	2800	OTTA	40	1832	1832.3	2	14.0			
	2700	PENN	45	1832.2	1832.3	2.8	13.6	2.9		
	1415	SGMR	45	1832.6	1833.7	2.9	78.1	19.0		
	960	PENN	1	1833.5	1833.6	.6	1.1	0.5		
	2800	OTTA	20	2030	2034	10	3.0	1.5		
	2700	PENN	20	2031.8	2033.8	9.6	5.1	2.6		
	10700	PENN	3	2159.5	2200.7	4	12.6	6.3		
	2800	OTTA	45	2158	2158.8	10	10.0	6.5		
	2700	PENN	20	2158	2158.5	27	12.4	4.3		
	1415	SGMR	40	2158.1	2202.1	10.2	16.5	3.0		
	960	PENN	1	2143.8	2144.2	1.1	3.8	1.4		
	606	SGMR	40	2158.1	2206.5	10.9	7.9	1.5		
	2800	OTTA	29	2208		45	3.0	1.5		
	960	PENN	1	2223.2	2223.4	.4	5.4	2.7		
27	4995	SGMR	20	1233	1237.8	12	8.6	2.7		
	2800	OTTA	22	1231	1238	19	13.0	6.0		
	2700	PENN	3	1233.2	1237.6	8.2	16.4	7.8		
	2695	SGMR	20	1233	1237.8	9	10.8	3.5		
	1415	SGMR	22	1233	1238	14	8.3	3.0		
	606	SGMR	40	1233	1239.7	9	8.3	2.0		
	2700	PENN	29	1241.4	1241.4	27	4.4	1.7		
	606	SGMR	40	1257.7	1302.1	41.3	19.8	3.3		
	8800	SGMR	22	1435	1450.2	34	6.5	3.0		
	2700	PENN	20	1338.4	1440	240	2.7	1.4		
	10700	PENN	3	1519.5	1520.5	3.5	17.2	8.6		
	4995	SGMR	22	1435	1454.5	42	8.6	4.0		
	2800	OTTA	21	1442	1455	60 D	5.0			
	2800	OTTA	1	1442	1443	2	5.4	3.0		
	2700	PENN	1	1441.8	1442.7	1.8	6.0	3.8		
	2695	SGMR	23	1435	1442.8	36	6.2	3.0		
	2695	SGMR	1	1442	1442.8	1.5	3.1	1.0		
	960	PENN	1	1442.5	1442.7	.4	1.1	0.5		
	606	SGMR	40	1501.8	1503.7	5.2	3.3	1.0		
	2700	PENN	29	1443.6	1445	31.2	3.8	2.0		
	2800	OTTA	21	1538	1635	140	9.2	4.6		
	10700	PENN	3	1607.6	1609.1	3.4	35.3	22.6		
	8800	SGMR	3	1608	1610.6	6	39.0	13.0		
	4995	SGMR	3	1608	1610.6	5	38.7	12.8		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
MARCH 1967

MAR. 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
27	2800	OTTA	21	1608	1614	16	9.4	4.7		
	2800	OTTA	3	1610	1610.9	2	24.0	12.0		
	2700	PENN	3	1601.7	1610.1	9.7	16.1	4.8		
	2695	SGMR	22	1543	1545.2	16	4.6	1.5		
	2695	SGMR	3	1608	1610.7	4	37.2	12.3		
	1415	SGMR	22	1543	1544	3	3.7	1.2		
	1415	SGMR	4	1608	1610.6	7	20.8	7.0		
	960	PENN	1	1608.5	1610.9	3	5.7	0.8		
	606	SGMR	40	1543	1545.5	3	11.6	3.0		
	606	SGMR	22	1558	1637	44	6.6	1.6		
	10700	PENN	29	1611	1611	11.1	17.6	8.6		
	8800	SGMR	29	1614	1614	43	13.0	6.5		
	4995	SGMR	29	1613	1613	40	17.2	8.6		
	2700	PENN	29	1611.4	1611.4	38.6	11.1	5.5		
	2695	SGMR	29	1612	1612	51	12.4	6.2		
	1415	SGMR	29	1615	1615	16	2.6	1.3		
	10700	PENN	3	1719.2	1720	6	13.2	6.6		
	8800	SGMR	20	1718.8	1719.8U	28.2	13.4U	4.4		
	4995	SGMR	20	1718.8	1719.8U	28.2	13.5U	4.5		
	2800	OTTA	22	1716	1720	30	8.8	4.4		
	2700	PENN	20	1715	1720	14.4	6.7	3.3		
	2695	SGMR	20	1718.8	1719.8U	28.2	12.3U	4.1		
	1415	SGMR	20	1718.8	1720.3	7.5	5.0	2.0		
	606	SGMR	40	1719	1719	194	17.9	3.0		
	10700	PENN	3	1946.6	1947.4	2.2	18.5	9.2		
	2800	OTTA	21	1835	1945	205	6.0	3.5		
	2700	PENN	20	1853.1	1944.8	197.7	7.7	3.9		
	2800	OTTA	1	2030	2033	5	5.4	3.0		
	2800	OTTA	1	2045	2046	4	3.0	1.5		
	2700	PENN	20	2027.6	2033.6	26.8	7.0	2.9		
	10700	PENN	20	2111.2	2112.4	32	14.1	7.1		
	10700	PENN	3	2122.4	2125.5	11.6	30.6	12.9		
	2800	OTTA	4	2111	2112	4	11.0	5.5		
	2800	OTTA	4	2122	2126	10	10.0	5.0		
	2700	PENN	45	2109.7	2112.5	7	14.4	3.7		
	2700	PENN	20	2120.8	2123.1	12	12.0	5.3		
	1415	SGMR	45	2110.4	2111.7	21.6	112.0	15.0		
	960	PENN	45	2111.6	2111.7	1.4	18.7	2.0		
	960	PENN	1	2113.4	2114.3	1.6	2.1	1.1		
	960	PENN	1	2121.5	2123.1	5	1.9	1.1		
	606	SGMR	45	2110	2111.7	21	185.0	37.0		
	486	WASH	45	2110	2112	6	145.0D			
	184	BOUL	41	2111	2112	21			2	
	960	PENN	1	2153.5	2154	2	2.3	0.6		
28	184	BOUL	48	0016	0049	35			2	
	184	BOUL	41	0236	0306	38			1	
	606	SGMR	4	1208.2	1208.4	.8	56.1	18.4		
	2800	OTTA	1	1234.5	1234.8	.5	3.0	1.5		
	2800	OTTA	1	1710.5	1710.8	1	1.6	0.8		
	10700	PENN	45	1735.8	1737	4	447.9	111.1		
	8800	SGMR	45	1736.4	1737.7	4.1	481.4	112.1		
	4995	SGMR	45	1736.4	1737.6	4.1	244.8	53.0		
	2800	OTTA	4	1736.5	1737.8	4	62.0	26.0		
	2700	PENN	45	1735.8	1737.4	4	58.8	20.1		
	2695	SGMR	45	1736.4	1738	4.1	89.0	18.0		
	1415	SGMR	45	1736.3	1738.2	5.2	1321.0	287.0		
	960	PENN	45	1736	1737.6	3.4	41.0	10.2		
	606	SGMR	45	1736.4	1738.7	6.5	2449.0	565.0		
	486	WASH	45	1736	1738	6	150.0D			
	184	BOUL	6	1734	1736	8			1	
	10700	PENN	29	1739.8	1739.8	7.6	6.8	3.4		
	8800	SGMR	29	1740.5	1740.5	14.2	18.9	9.4		
	4995	SGMR	29	1740.5	1740.5	24	8.4	4.2		
	2800	OTTA	29	1740.5		7	5.4	2.5		
	2700	PENN	29	1739.8	1739.8	6.2	4.7	2.0		
	2695	SGMR	29	1740.5	1740.5	24	6.0	3.0		
	1415	SGMR	29	1741.5	1741.5	67.5	3.5	1.7		
	960	PENN	29	1739.4	1739.4	3.4	.6	0.3		
	606	SGMR	29	1742.9	1742.9	66.1	6.6	3.3		
	2800	OTTA	2	1800.5	1801.3	1.5	2.6	1.3		
	2700	PENN	20	1856.7	1909.4	38.1	6.0	3.6		
	2800	OTTA	23	1857	1925	40	6.2	3.1		
	10700	PENN	3	1913.2	1916.4	6	8.5	4.3		
	8800	SGMR	45	1910	1917.3	24.5	26.5	7.8		
	4995	SGMR	45	1907	1916.9	27.5	31.5	8.5		
	2800	OTTA	45	1914.5	1917.4	5.5	32.0	12.0		
	2800	OTTA	45	1914.5	1915	1.5	11.0			
	2800	OTTA	45	1916	1917.4	4	32.0			
	2700	PENN	45	1913.2	1916.8	6.6	29.6	9.4		
	2695	SGMR	45	1907	1917.3	22	36.9	9.0		
	1415	SGMR	45	1906.3	1917.3	24.7	356.0	70.0		
	960	PENN	45	1908.6	1917	10.6	6.0	2.2		
	606	SGMR	45	1906	1915.5	21	93.0	19.0		
	486	WASH	45	1914	1916	5	40.0			
	184	BOUL	42	1905	1916	60			1	
	2700	PENT	1	2259.2	2300	1.5	2.2	1.1		
29	10700	PENN	3	1234.1	1234.6	1.4	18.9	10.8		
	2700	PENN	1	1234	1234.8	2.2	5.1	2.5		
	10700	PENN	3	1422.3	1422.8	1.7	12.5	6.3		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1967

MAR. 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
29	2800	OTTA	1	1453.5	1453.8	.7	1.2	0.6		
	2700	PENN	1	1453.7	1453.8	.4	2.5	1.3		
	10700	PENN	3	1534.9	1535.1	1.1	8.7	4.4		
	10700	PENN	1	1539.1	1540.5	1.6	6.5	3.3		
	10700	PENN	1	1544.3	1544.5	1.1	6.5	3.3		
	10700	PENN	1	1550.1	1550.8	1.4	6.5	3.3		
	10700	PENN	3	1554.3	1555.5	5.7	20.0	6.1		
	2700	PENN	26	1600	1600		13.2			
	10700	PENN	20	1706.8	1710	53.2	7.9	5.6		
	10700	PENN	1	1724.3	1724.7	.9	4.8	2.4		
	10700	PENN	3	1731.8	1732.5	1.5	52.9	27.7		
	10700	PENN	3	1742.9	1743.5	2	34.4	9.6		
	8800	SGMR	21	1725	1739.7	61	36.0	12.0		
	8800	SGMR	3	1732.8	1733.4	2.2	95.0	27.0		
	8800	SGMR	3	1743	1744.4	4	75.0	19.0		
	4995	SGMR	21	1721	1737.4	67	28.0	9.0		
	4995	SGMR	3	1732.4	1733.4	2.6	108.0	29.0		
	4995	SGMR	3	1743	1744.4	4.5	33.0	8.0		
	2800	OTTA	2	1700	1700.5	4	5.4	2.7		
	2800	OTTA	21	1725	1731	55	5.8	2.9		
	2800	OTTA	3	1732	1733.5	3	34.0	20.0		
	2800	OTTA	30	1735		15	12.0	6.0		
	2800	OTTA	1	1737.3	1737.7	.7	3.0	1.5		
	2700	PENN	20	1705.4	1730.1	82	12.9	6.5		
	2700	PENN	45	1731.5	1732.8	9.7	27.2	8.6		
	2695	SGMR	21	1724	1737.5	38	20.0	7.0		
	2695	SGMR	3	1732.6	1733.6	2.4	39.0	13.0		
	10700	PENN	29	1733.3	1733.3	26.7	18.0	9.0		
	2800	OTTA	21	1850	2025	160	7.8	4.0		
	2700	PENN	24	1829.8	1954		12.1			
	10700	PENN	20	1906.8	1913.6	17.1	16.5	8.3		
	960	PENN	1	1855.8	1855.9	.7	3.6	1.8		
	960	PENN	1	1904.1	1904.8	1.2	2.2	1.1		
	8800	SGMR	21	1941.3	1944.3	19.7	13.6	4.5		
	8800	SGMR	3	1942.5	1943.2	1.5	18.6	9.3		
	4995	SGMR	22	1941.2	1943.1	30.3	16.4	5.5		
	2800	OTTA	22	1941	1943	9	4.2	2.1		
	2700	PENN	45	1939.9	1941.2	7.1	9.3	4.7		
	2695	SGMR	22	1940.8	1943	11.2	5.4	1.0		
	1415	SGMR	45	1942.8	1944.2	2.7	14.4	1.7		
	960	PENN	1	1947.6	1947.9	.4	4.8	2.4		
	2800	OTTA	1	2101	2101.4	.5	6.0	3.0		
	2800	OTTA	1	2112.5	2112.8	1	2.4	1.2		
	2700	PENN	1	2110.4	2111.3	1.7	4.4	2.2		
	960	PENN	1	2110.8	2111.2	1.2	.3	0.2		
	10700	PENN	3	2206.3	2210	8.7	22.6	11.3		
	2800	OTTA	45	2209	2210.7	4	4.4	3.3		
	2700	PENN	45	2205.4	2208.5	6.1	8.2	3.2		
	10700	PENN	5	2245.9		.4				DUR. SUNSET
	2700	PENN	5	2245.9		.3				DUR. SUNSET
	2800	OTTA	2	2246.7	2247.2	1	2.4	1.2		
30	2700	PENT	45	0022	0024	4	12.6	9.4		
	2700	PENT	45	0022	0022.5	1	9.0			
	2700	PENT	45	0023	0024	3	12.6			
	2700	PENT	29	0026		80	8.2	5.0		
	8800	SGMR	3	1102.2	1102.4	1	64.2	16.0		
	4995	SGMR	3	1102.1	1102.4	1.8	73.0	18.0		
	2695	SGMR	3	1102.2	1102.4	.8	12.0	3.0		
	1415	SGMR	1	1102.3	1102.4	.3	2.9	.5		
	10700	PENN	20	1146.4	1148.2	115	19.4	5.1		
	8800	SGMR	3	1146.7	1147	2.9	33.0	8.0		
	4995	SGMR	45	1146.6	1148.2	3.1	63.0	15.0		
	2700	PENN	20	1146	1148.2	67	14.7	7.3		
	2695	SGMR	3	1146.6	1148.2	6.4	27.1	6.5		
	1415	SGMR	40	1143	1146.7	8	17.0	4.0		
	2700	PENN	3	1221.1	1222	1.1	9.6	2.7		
	960	PENN	1	1221.5	1221.7	.4	1.9	0.9		
	8800	SGMR	20	1324.9	1339	17.5	6.0	3.0		
	4995	SGMR	20	1322.9	1332.7	24.1	11.5	5.0		
	2800	OTTA	20	1320	1328	30	6.0	3.0		
	2700	PENN	1	1326.2	1328	6.2	3.7	1.8		
	2700	PENN	1	1419	1421.9	3.8	1.9	1.0		
	2700	PENN	1	1431.6	1433.2	4.1	2.3	1.2		
	2700	PENN	1	1441.5	1441.9	1.2	1.3	0.6		
	2695	SGMR	20	1313	1339.8	42	14.7	7.0		
	1415	SGMR	20	1330	1442.5	85	11.8	5.0		
	960	PENN	1	1356.8	1357	.8	1.6	0.8		
	960	PENN	1	1441.7	1442	.9	1.3	0.6		
	606	SGMR	40	1258.2	1258.7	118.3	25.5	2.0		
	2800	OTTA	21	1640	1755	255	8.8	4.4		
	10700	PENN	3	1935.1	1935.2	.4	8.5	4.2		
	10700	PENN	3	1938.5	1939.5	7.5	39.5	8.9		
	8800	SGMR	3	1934.1	1934.3	.7	14.0	4.0		
	8800	SGMR	3	1938.6	1939.3	6.4	83.0	25.0		
	4995	SGMR	3	1938.4	1939.4	6.6	108.0	27.0		
	2800	OTTA	3	1938	1939.5	10	64.0	16.0		
	2700	PENN	3	1748.7	1752.2	10.6	11.5	2.0		
	2700	PENN	3	1937.7	1939.3	8.8	63.1	10.4		
	2695	SGMR	3	1938.4	1939.4	6.6	68.0	17.0		
	1415	SGMR	3	1938.8	1939.4	4.2	21.0	5.5		

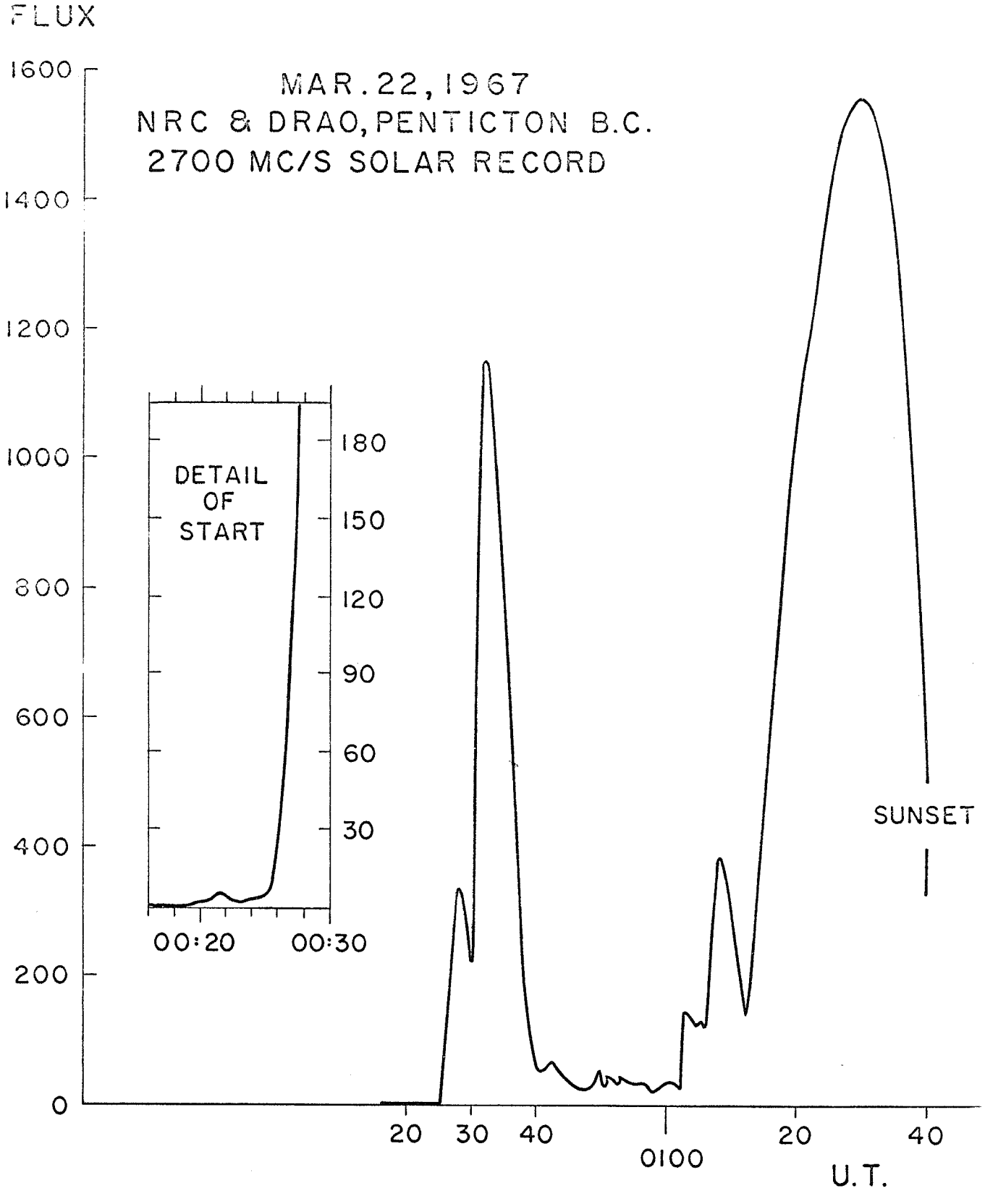
SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1967

MAR. 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
30	960	PENN	1	1938.7	1939.3	1.8	1.8	0.9		
	606	SGMR	41	1934.4	1934.7	.6	18.2	2.6		
	606	SGMR	3	1938.5	1939.6	6.5	50.0	10.0		
	486	WASH	45	1939	1940	3	60.0			
	184	BOUL	42	1823	1937	123			1	
	2700	PENT	23	2340	2343	90	10.0	4.0		
31	2700	PENT	4	0057.5	0058	2.5	8.8	4.4		
	2700	PENT	3	0109	0109.5	1	8.8	4.4		
	8800	SGMR	20	1201.7	1211.4	24.3	7.2	3.6		
	4995	SGMR	20	1201.5	1205.7	21.5	8.8	4.4		
	2695	SGMR	20	1201	1202.5	24	6.2	3.1		
	1415	SGMR	24	1155	1200.8	U	5.3	2.7		
	606	SGMR	24	1154	1200.7	U	11.6	3.3		
	10700	PENN	20	1256	1337.5	66	10.6	5.3		
	10700	PENN	3	1336.7	1337.6	1.4	23.8	11.9		
	8800	SGMR	3	1336.8	1337.4	4.8	30.0	10.0		
	4995	SGMR	3	1337	1337.3	5	17.6	5.9		
	2800	OTTA	20	1319	1340	60	4.6	2.3		
	2700	PENN	20	1255	1337.7	69	3.5	1.8		
	606	SGMR	3	1301.9	1302	.2	23.2	7.5		
	2700	PENN	1	1550.3	1550.5	.5	1.8	0.9		
	2800	OTTA	21	1600	1620	60	5.0	2.5		
	10700	PENN	20	1627.8	1628.6	11.2	10.1	5.0		
	8800	SGMR	4	1628	1628.6	15	12.0	4.0		
	4995	SGMR	4	1628	1628.6	9.5	11.0	3.6		
	2800	OTTA	2	1628	1628.8	5	7.2	3.6		
	2700	PENN	1	1606.8	1609.3	3	1.7	0.8		
	2700	PENN	20	1610	1610.9	13.4	2.8	1.4		
	2700	PENN	1	1627.8	1628.8	5.7	6.9	3.2		
	2695	SGMR	4	1628	1629.1	5.5	9.3	3.1		
	1415	SGMR	2	1628	1628.5	5.5	3.3	1.1		
	606	SGMR	1	1626	1628.5	5	1.7	.6		
	2800	OTTA	1	1709.8	1710	2	4.2	2.1		
	2700	PENN	1	1709.8	1710	1.3	4.7	2.4		
	960	PENN	1	1709.8	1709.9	.2	2.6	1.3		
	2700	PENN	1	1714.1	1714.5	.9	2.2	1.1		
	2700	PENN	3	1721.5	1721.8	.5	11.5	4.9		
	2800	OTTA	21	1724	1730	20	3.0	1.5		
	2800	OTTA	4	1726.7	1727	2	10.6	5.3		
	2700	PENN	3	1727	1727.3	7	10.5	2.9		
	2800	OTTA	21	1840		60	3.0	2.0		
	10700	PENN	1	1847.2	1847.2	.3	1.7	0.9		
	10700	PENN	3	1853.2	1853.7	1.4	11.7	5.8		
	8800	SGMR	4	1846	1847.3	2.2	8.2	2.7		
	8800	SGMR	4	1853.3	1853.8	2.1	11.3	3.8		
	4995	SGMR	4	1846	1847.3	2	5.3	1.7		
	4995	SGMR	4	1853.3	1853.8	5.7	23.4	7.8		
	2800	OTTA	2	1846	1847.3	2	4.8	2.4		
	2800	OTTA	3	1853.4	1853.8	3	20.0	10.0		
	2700	PENN	20	1840	1848	55	3.0	1.5		
	2700	PENN	1	1846	1847.3	1.8	6.0	3.0		
	2700	PENN	3	1853.3	1853.7	3.3	18.8	6.5		
	2695	SGMR	4	1846.2	1847.2	5.2	8.7	2.9		
	2695	SGMR	4	1853.3	1853.9	2.9	17.7	5.9		
	1415	SGMR	4	1853.2	1853.7	5.8	11.3	3.8		
	960	PENN	3	1853.3	1854.2	1.1	12.1	4.0		
	2800	OTTA	40	1944	1948.5	8	2.4			
	2700	PENN	1	1945.3	1948.7	6.9	6.2	3.1		
	960	PENN	1	1946.4	1946.6	.5	1.0	0.5		
	960	PENN	45	1948.2	1948.5	.4	4.1	2.0		
	2700	PENN	1	2013.8	2014.1	4.6	4.7	2.3		
	2800	OTTA	2	2014	2014.3	2.5	4.4	2.2		
	960	PENN	1	2014	2014.1	3.1	1.3	0.7		
	10700	PENN	3	2023	2023.2	.5	11.7	5.8		
	8800	SGMR	3	2022.8	2023.2	1.2	12.6	4.2		
	4995	SGMR	3	2022.6	2023.1	3.6	12.3	4.1		
	2800	OTTA	3	2022.8	2023.2	2	12.6	6.3		
	2700	PENN	3	2022.8	2023.2	7.2	12.5	2.4		
	2695	SGMR	3	2022.8	2023.1	7.7	14.0	4.7		
	1415	SGMR	3	2022.9	2023.1	1.1	18.7	6.2		
	960	PENN	45	2022.8	2023.1	.7	9.9	2.6		
	2700	PENN	24	2035	2303	D	5.4			
	2700	PENT	1	2315.5	2317	1	2.2	1.1		
	2700	PENT	21	2346	2405	80	7.4	3.7		
	2700	PENT	3	2346	2348.2	6	42.2	21.0		

No data are available from Haleakala for March 1967. Boulder 184 began satisfactory operation on March 15, 1967.

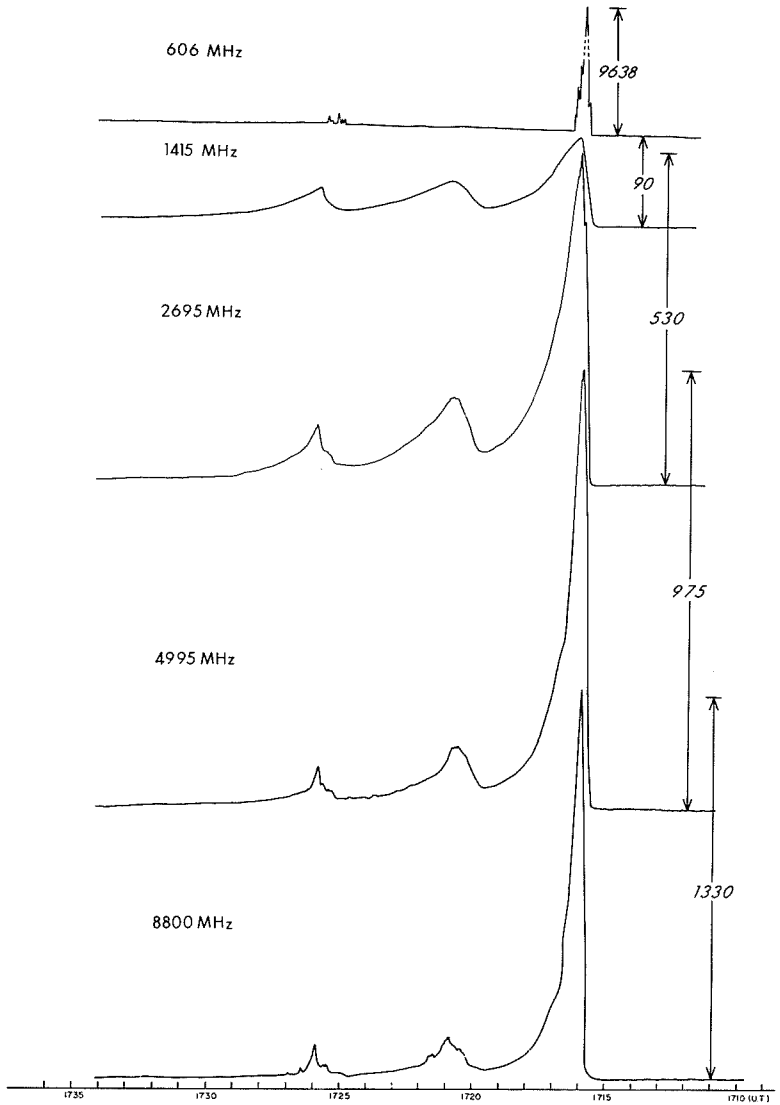
SELECTED 2700 Mc/s SOLAR NOISE BURST
DRAO PENTICTON, CANADA
MARCH 1967



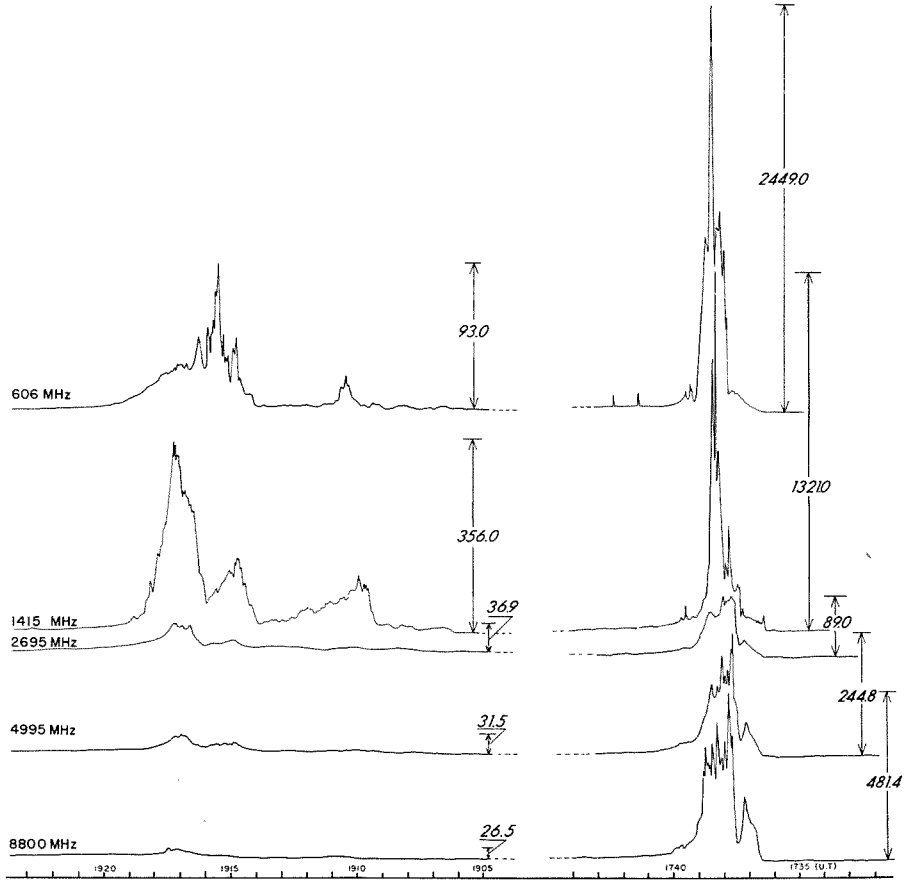
SELECTED SOLAR NOISE BURSTS
AFCRL SAGAMORE HILL

MARCH 1967

28 Mar 67



COMPLEX RADIO BURST OBSERVED 4 MARCH, 1967
AT SAGAMORE HILL RADIO OBSERVATORY (AFCRL) HAMILTON, MASS.



COMPLEX RADIO BURSTS OBSERVED 28 MARCH, 1967 BETWEEN 1732 AND 1923 U.T.
AT SAGAMORE HILL RADIO OBSERVATORY (AFCRL) HAMILTON, MASS.

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

MARCH 1967

University of Colorado

7.6-41 Mc/s

Date Mar 1967	Type	Time (U. T.)	Intensity	Frequency Range(Mc/s)
1	III	1508.5-1508.7	1	34-41
	III	1609.8-1610.2	1	25-41
	III	1617.8-1618.1	1	32-41
	III	1910.6-1910.9	2	24-41
	III	1940.6-1940.9	2	28-41
	IIIG	2012.2-2025.6	2	16-41
	III	2045.2-2045.5	1	30-38
	III	2102.1-2102.5	2	22-39
	IIIg	2108.6-2112.2	2	22-41
	III	2118.8-2119.1	2	25-41
	III	2127.9-2128.2	1	23-37
	IIIg	2148.0-2149.0	1	25-41
	IIIg	2203.8-2204.8	1	23-41
	IIIg	2219.5-2220.8	3	24-41
	IIIg	2233.9-2235.2	1	26-41
	IIIg	2243.8-2245.2	2	24-41
	III	2248.2-2248.6	2	24-41
	IIIg	2259.8-2301.6	2	25-41
	III	2307.9-2308.6	2	24-41
	IIIg	2314.3-2316.5	1	28-41
	III	2325.8-2326.0	2	25-41
	III	2330.6-2330.9	2	26-41
	IIIG	2336.7-2342.6	3	25-41
	IIIg	2348.2-2352.0	3	24-41
	III	2402.5-2402.8	2	29-41
	IIIg	2407.1-2409.9	2	29-41
		2431.2-2431.7	2	30-41
2	III	1351.5-1352.0	1	28-40
	III	1424.6-1424.9	1	28-38
	continuum	1439.2-1510.0	1	26-41
	IIIg	1450.9-1453.0	2	22-41
	III	1531.5-1531.9	2	23-41
	IIIg	1550.5-1552.0	1	26-41
	III	1557.8-1558.2	1	25-41
	IIIg	1600.0-1603.0	3	23-41
	II	1607.4-1616.5	2	22-41
	IV	1616.5-1706.1	2	22-41
	continuum	1706.1-1725.0	1	22-41
	continuum	1725.0-2216.0	1	25-41
	IIIg	1927.0-1929.3	2	16-41
	III	2017.6-2018.2	2	17-41
	III	2019.5-2020.0	2	22-41
	III	2029.0-2029.5	2	19-41
	III	2054.2-2054.7	2	24-41
	III	2318.1-2318.4	2	20-41
	III	2324.1-2324.2	1	27-41
	III	2333.8-2334.1	2	25-41
	IIIG	2343.0-2349.1	2	24-41
	III g	2406.4-2408.0	1	22-41
	III	2416.0-2416.3	1	28-41

Date Mar 1967	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
2	IIIg	2431,5-2432.7	1	28-38
3	continuum	b1340.0-2211.2	1	24-41
	IIIg	1505.5-1507.3	2	25-41
	IIIg	1534.4-1536.2	3	24-41
	III	1649.4-1650.0	3	22-41
	IIIg	1745.0-1748.2	3	16-41
	III	1801.9-1802.3	3	22-41
	IIIg	1914.7-1915.2	2	27-41
	IIIg	1932.1-1934.7	2	25-41
	IIIg	2000.0-2001.3	3	16-41
	III	2126.1-2127.0	3	20-41
	III G	2141.0-2146.9	3	20-41
	IIIg	2158.5-2200.6	2	23-41
	II	2157.9-2211.2	3	24-41
	continuum	2211.2-a2408.0	1	26-41
	III	2222.1-2222.5	2	22-41
	IIIg	2309.8-2311.4	3	24-41
	IIIg	2318.8-2319.3	2	28-41
	III	2358.5-2358.9	2	26-41
4	continuum	b1350.0-a2430.0	1	24-41
	IIIg	1502.5-1506.4	3	22-41
	IIIg	1541.2-1544.3	2	23-41
	III	1626.0-1626.6	3	25-41
	III	1631.9-1632.4	3	25-41
	IIIg	1656.3-1658.8	2	22-41
	IIIG	1744.2-1751.0	2	19-41
	IIIg	1853.5-1855.2	3	16-41
	IIIg	2239.6-2247.5	3	21-41
	IIIG	2328.4-2332.0	2	24-41
5	IIIg	1402.1-1403.3	2	26-41
	continuum	1501.5-1811.0	1	24-41
	IV	1811.0-1950.0	3	27-41
	continuum	1950.0-2035.0	1	25-41
	III	2027.0-2027.5	3	21-41
	III	2032.4-2032.8	3	22-41
	continuum	2035.0-a2435.0	1	24-41
	III	2115.6-2116.4	2	22-41
	III	2129.0-2129.7	3	21-41
	IIIG	2148.0-2152.0	1	25-41
	IIIg	2347.5-2348.5	2	26-41
	IIIG	2357.1-2400.2	2	27-41
	III	2408.2-2408.6	2	28-41
6	continuum	b1328.0-a2356.0	1	24-41
	III	1838.7-1839.3	2	23-41
	IIIg	2103.3-2105.1	2	24-41
7	III	1347.7-1347.9	1	29-41
	IIIg	1353.8-1354.8	2	27-41
	IIIg	1357.8-1359.4	3	25-41
	continuum	b1402.4-1903.0	1	25-41
	IIIg	1402.4-1404.7	2	26-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

MARCH 1967

University of Colorado

7.6-41 Mc/s

Date Mar 1967	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
7	IIIg	1500. 5-1505. 1	2	25-41
	III	1536. 9-1537. 5	2	23-41
	IIIg	1557. 0-1600. 8	3	22-41
	IIIG	1617. 5-1625. 9	2	22-41
	IIIg	1704. 8-1708. 9	3	19-41
	IIIg	1738. 8-1742. 6	2	20-41
	IIIG	1850. 8-1903. 0	3	16-41
	continuum	1903. 0-a2500. 0	1	22-41
	III	1931. 9-1932. 5	2	22-41
	IIIg	1936. 0-1937. 0	2	16-41
	IIIg	2311. 0-2312. 4	3	24-41
8	continuum	1550. 2-1701. 2	1	24-41
	continuum	1701. 2-2035. 0	2	26-41
	continuum	2035. 0-a2441. 0	1	24-41
	IIIG	2420. 8-2429. 2	2	28-41
9	continuum	b1317-1503. 0	1	26-41
	continuum	1503. 0-1811. 0	1	25-41
	continuum	1811. 0-2030. 0	1	27-36
	continuum	2030. 0-a2500	2	24-41
10	IV	b1331. 0-a 2445	3	22-41
11	continuum	b1317. 0-a 2440. 1	2	25-41
	III	1905. 6-1907. 0	3	24-41
12	continuum	b1317. 0-a2354. 8	1	24-41
13	III	1624. 8-1625. 0	1	26-41
	III	1635. 7-1636. 0	1	28-38
	III	2330. 7-2331. 0	1	30-39
	IIIg	2346. 5-2348. 3	2	26-41
14	III	1714. 2-1714. 7	1	24-41
	IIIg	2012. 7-2014. 5	2	24-41
	III	2100. 3-2100. 6	2	20-41
	IIIg	2120. 6-2122. 1	1	20-41
	IIIg	2152. 5-2158. 4	2	22-41
15	IIIg	2055. 8-2057. 8	2	25-41
	III	2204. 6-2204. 9	1	26-41
	IIIg	2429. 1-2432. 7	2	29-41
16	no activity			
17	no activity			
18	III	2242. 4-2243. 0	2	29-41
	III	2352. 5-2352. 9	1	30-41
19	III	1355. 2-1355. 6	1	28-41
	III	1428. 0-1428. 2	1	30-41
	IIIg	1434. 6-1436. 4	1	22-41
	III	1620. 4-1621. 0	2	25-41
	III	1713. 9-1714. 5	1	22-41
	III	1750. 9-1751. 2	1	28-41
	III	1809. 4-1809. 6	1	28-41
	III	1944. 8-1945. 1	1	28-41
	continuum	2036. 0-2130. 0	1	28-41
20	continuum	b1318. 0-1324. 5	1	28-39
	IIIg	1346. 6-1348. 4	3	24-39

Date Mar 1967	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
20	II	1351. 8-1401. 2	2	32-41
	IIIg	1507. 5-1510. 4	3	22-39
	III	1515. 5-1515. 7	1	26-39
	IIIg	1523. 6-1528. 1	3	22-41
	IIIg	1538. 6-1539. 9	2	25-40
	continuum	1552. 3-1705. 3	1	25-41
	IIIG	1614. 5-1618. 9	3	16-41
	IIIg	1633. 6-1637. 2	3	16-41
	continuum	1705. 3-1722. 0	2	22-41
	continuum	1722. 0-2203. 5	1	24-41
	III	1748. 7-1750. 0	3	16-41
	IIIg	1826. 2-1829. 2	3	16-41
	IIIg	1858. 5-1900. 5	3	16-41
	IIIg	1947. 9-1948. 7	3	20-41
	IIIg	1958. 8-2002. 0	3	20-41
	IIIg	2035. 5-2036. 0	2	17-41
	IIIg	2052. 2-2055. 6	2	17-41
	III	2104. 8-2105. 4	3	22-41
	IIIg	2122. 7-2125. 7	3	16-41
	IIIg	2156. 4-2157. 0	2	22-41
21	continuum	b1350. 5-1825. 8	1	22-41
	IIIg	1617. 5-1620. 3	2	20-41
	IIIg	1702. 9-1710. 1	3	24-41
	continuum	1825. 8-1842. 6	3	22-41
	III	1838. 5-1839. 3	3	14-41
	continuum	1842. 6-2446. 5	1	22-41
	IIIg	2047. 6-2050. 8	3	21-41
	IIIg	2123. 8-2126. 3	2	22-41
	III	2306. 4-2307. 0	2	29-41
	IIIg	2319. 5-2320. 9	2	28-41
	IIIg	2400. 0-2400. 9	2	29-41
	IV	2446. 5-a2500. 0	2	29-41
22	continuum	b1303. 5-a1940. 0	1	25-41
	IIIg	1330. 5-1335. 8	2	28-41
	IIIg	1506. 9-1507. 1	3	25-41
	III	1527. 8-1529. 1	3	22-41
	IIIG	1600. 4-1605. 8	2	23-41
	II	1617. 7-1630. 4	1	25-41
	IIIg	1733. 5-1734. 9	3	15-41
	IIIg	1905. 5-1906. 6	1	16-38
23	continuum	b1303. 0-1826. 3	1	25-41
	IIIg	1401. 0-1402. 0	3	26-41
	IIIg	1734. 1-1736. 0	2	24-41
	continuum	1826. 3-1928. 6	3	15-41
	III	1928. 6-1931. 0	3	16-41
	IV	1931. 6-1937. 0	2	26-41
	continuum	1937. 0-a2410. 0	1	24-41
	III	2313. 6-2314. 8	3	18-40
	IIIg	2408. 7-2410. 8	2	30-41
24	III	1321. 0-1321. 4	1	30-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

MARCH 1967

University of Colorado

7.6-41 Mc/s

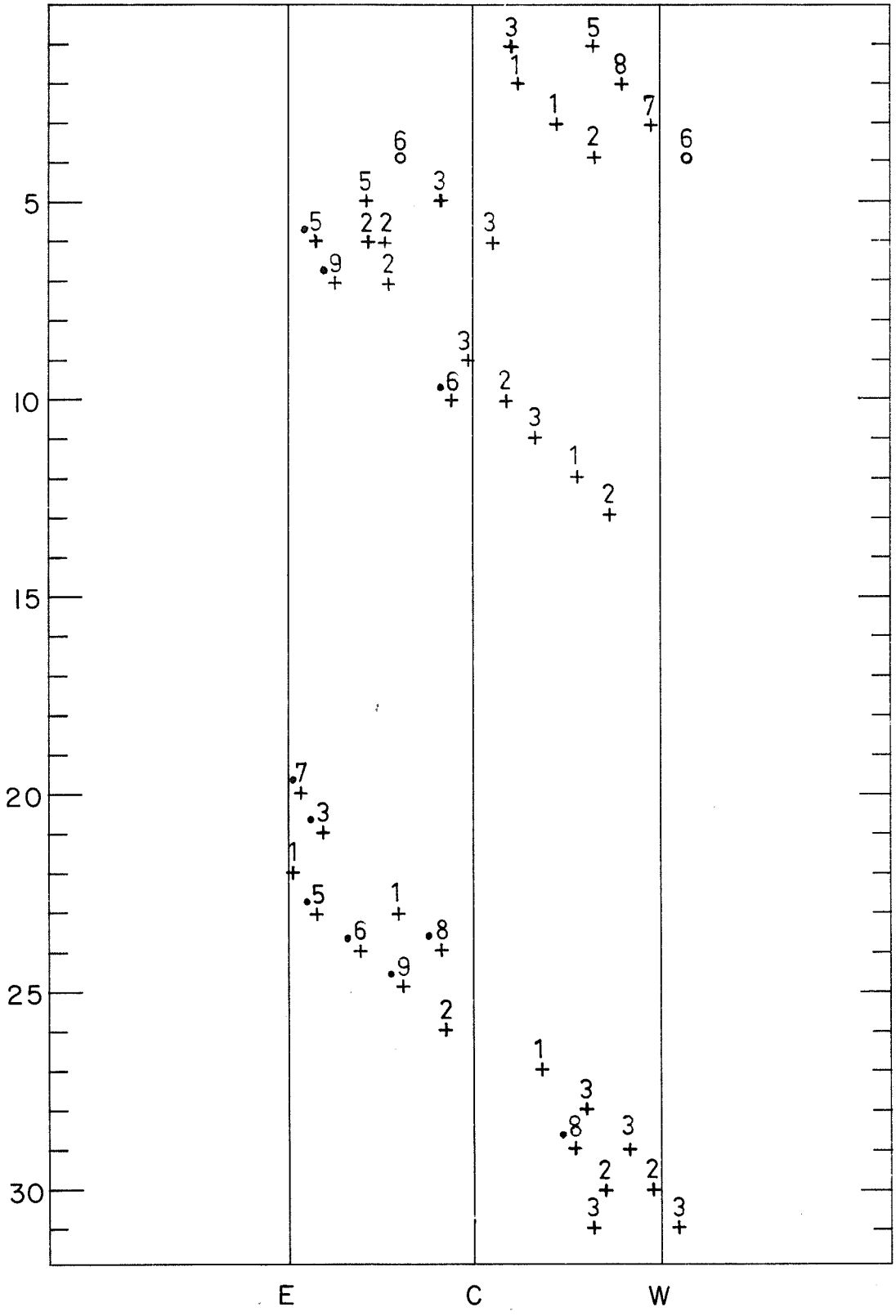
Date Mar 1967	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
24	IIIg	1404. 2-1405. 1	3	25-41
	IIIg	1447. 6-1449. 2	1	26-41
	III	1456. 8-1457. 0	1	27-41
	III	1558. 4-1558. 8	1	29-39
	IIIg	1613. 7-1624. 4	2	24-41
	III	1633. 9-1634. 1	1	31-41
	III	1729. 1-1730. 0	1	25-41
	continuum	1757. 4-1838. 3	1	24-41
	IIIg	1858. 3-1901. 1	1	26-41
	continuum	1918. 7-2019. 8	1	25-41
	III	2104. 7-2105. 1	1	26-41
	continuum	2128. 4-2154. 0	1	25-41
	III	2225. 6-2225. 9	1	28-39
	III	2229. 7-2230. 0	1	30-39
	IIIg	2246. 1-2247. 7	1	29-41
	IIIG	2300. 8-2309. 5	1	29-41
	IIIg	2327. 9-2328. 9	1	30-41
	III	2336. 1-2336. 5	2	25-41
	III	2342. 7-2342. 9	1	32-41
25	continuum	b1248. 0-a2416. 0	1	22-39
	IIIg	1424. 4-1426. 3	2	24-38
	IIIG	2152. 7-2159. 4	2	20-39
26	continuum	b1254. 0-1504. 2	1	27-41
	IIIG	1447. 3-1453. 2	2	20-41
	III	1545. 7-1546. 1	1	29-41
	III	1553. 2-1553. 5	1	28-41
	III	1604. 2-1604. 6	1	30-41
	III	1611. 6-1611. 9	1	28-41
	IIIg	1618. 8-1622. 7	3	28-41
	continuum	1857. 4-2048. 0	1	25-41
	IIIG	2157. 3-2207. 7	2	24-41
	continuum	2207. 7-a2425. 0	1	28-41
27	continuum	b1248. 0-a2500. 0	1	25-41
	IIIg	1313. 5-1315. 2	3	23-41
	IIIG	1329. 0-1335. 3	3	24-41
	IIIg	1503. 9-1505. 0	2	20-41
	IIIg	1543. 5-1545. 4	2	24-41
	III	1632. 5-1633. 2	2	16-41
	IIIg	1719. 1-1720. 0	3	17-41
	II	1732. 0-1749. 8	2	24-41

Date Mar 1967	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
27	IIIG	2118. 0-2132. 2	3	21-41
	IIIG	2134. 8-2138. 6	2	22-41
	II	2138. 6-2154. 9	2	22-41
28	III	1309. 8-1310. 5	1	30-41
	IIIG	1326. 1-1331. 6	2	25-41
	III	1406. 0-1406. 3	1	28-38
	III	1430. 1-1430. 3	2	25-41
	continuum	1503. 5-a2450. 0	1	25-41
	IIIg	1737. 0-1739. 1	1	16-41
29	III	1442. 5-1442. 9	1	29-41
	III	1509. 5-1509. 8	1	28-41
	III	1512. 2-1512. 4	1	31-38
	III	1734. 9-1735. 2	1	26-36
	continuum	1841. 8-2041. 0	1	26-41
	III	2036. 4-2038. 2	2	17-41
30	IIIg	1243. 6-1245. 3	2	25-39
	III	1329. 2-1329. 5	1	28-36
	continuum	b1359. 8-1612. 4	1	27-41
	IIIg	1550. 0-1552. 3	2	22-41
	IIIg	1606. 9-1610. 1	2	21-41
	continuum	1658. 3-a2500. 0	1	26-41
	IIIG	1718. 6-1731. 3	2	16-41
	IIIg	1809. 5-1810. 5	2	24-41
	IIIG	1838. 4-1843. 6	2	16-41
	IIIg	1938. 4-1941. 1	3	14-41
	IIIG	2108. 3-2115. 5	2	21-41
	IIIg	2144. 7-2146. 0	2	20-41
	IIIg	2208. 7-2210. 8	2	22-41
31	continuum	b1324. 0-a2500. 0	1	26-41
	III	1416. 7-1617. 3	2	28-41
	IIIg	1421. 3-1424. 7	3	25-41
	IIIG	1425. 5-1434. 7	2	31-41
	IIIg	1541. 9-1543. 7	2	24-41
	IIIg	1702. 0-1703. 7	3	16-41
	III	1710. 6-1711. 0	2	16-41
	IIIg	1817. 6-1820. 7	3	17-41
	III	1904. 2-1904. 5	2	28-41
	IIIg	2346. 0-2350. 0	3	26-39
	IIIg	2415. 4-2416. 5	3	29-39

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

MARCH 1967

Nançay 408 Mc/s

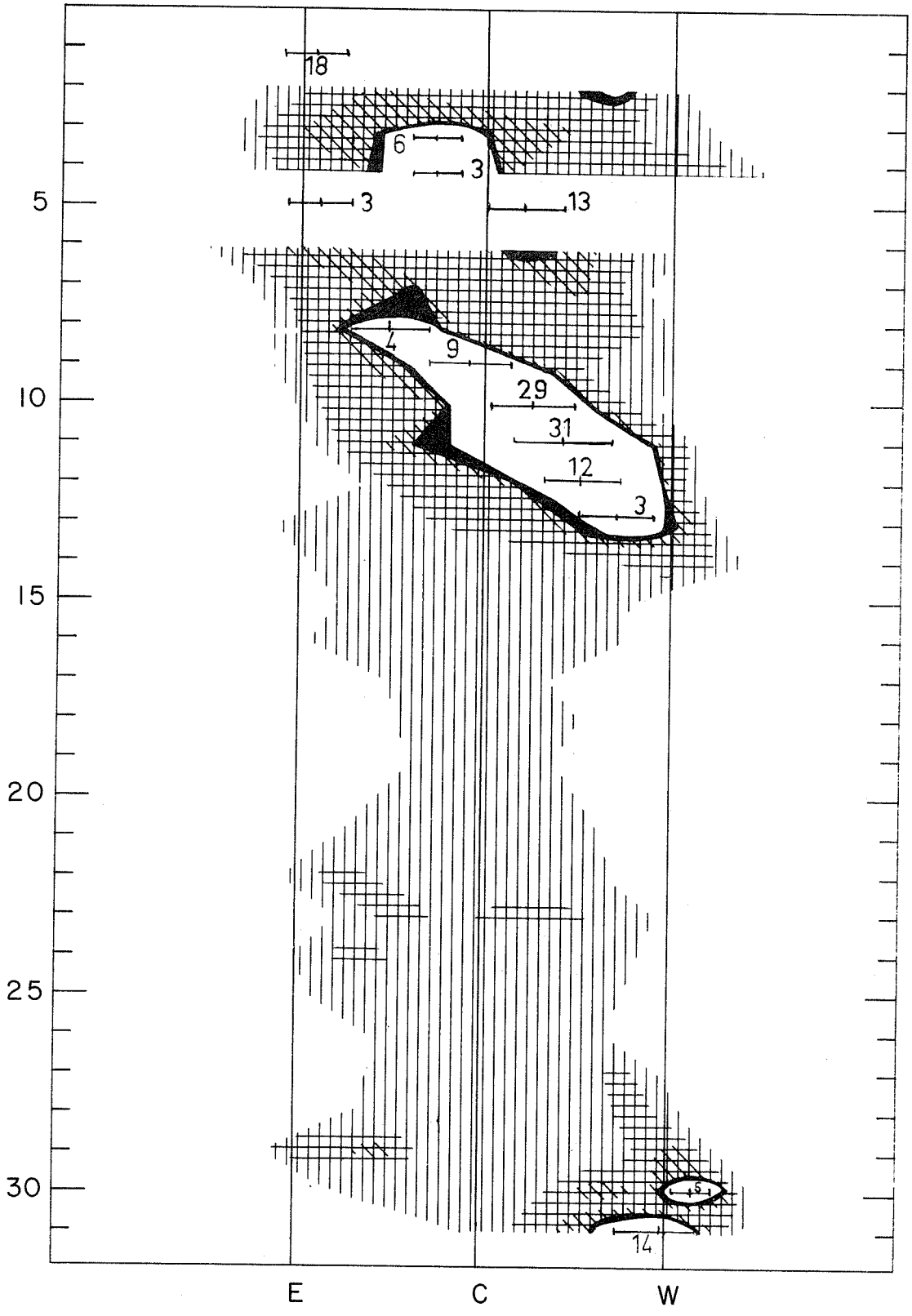


SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

MARCH 1967

Nançay

169 Mc/s

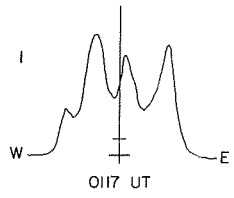


EAST - WEST SOLAR SCANS

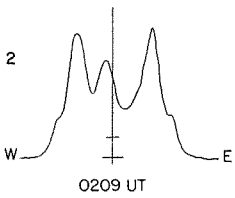
March 1967

FLEURS, AUSTRALIA

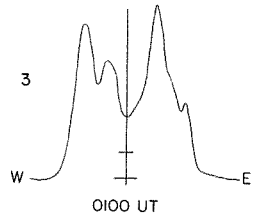
21 cm
Fan - Beam with 2 minutes of arc
E - W Resolution



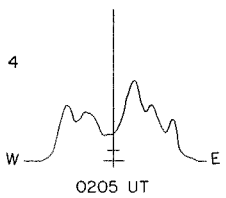
0117 UT



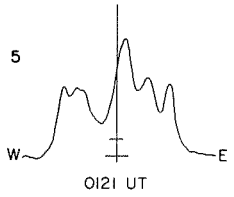
0209 UT



0100 UT

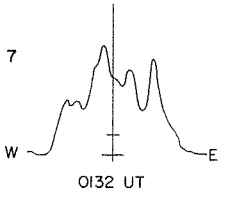


0205 UT



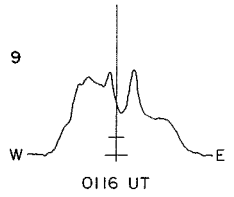
0121 UT

NO DATA
March 6

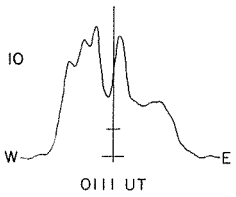


0132 UT

NO DATA
March 8



0116 UT



0111 UT

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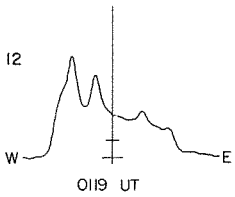
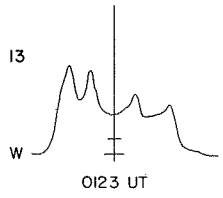
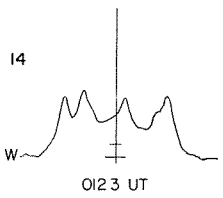
March 11



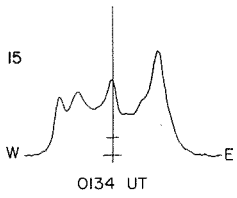
0119 UT



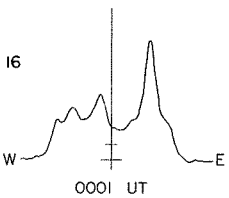
0123 UT



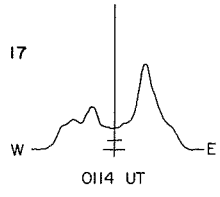
0123 UT



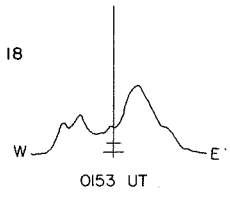
0134 UT



0001 UT

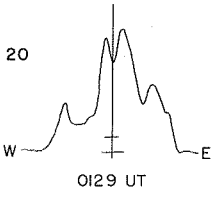


0114 UT

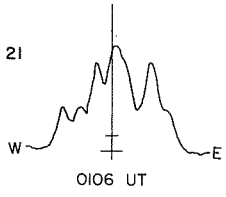


0153 UT

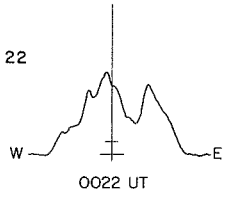
NO DATA
March 19



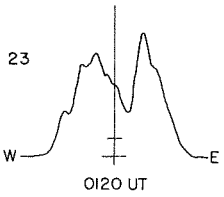
0129 UT



0106 UT

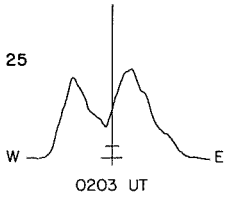


0022 UT

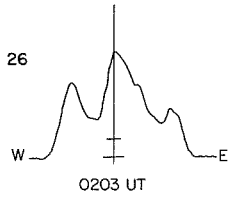


0120 UT

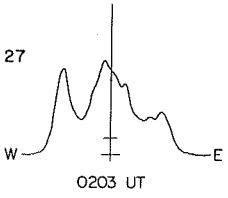
NO DATA
March 24



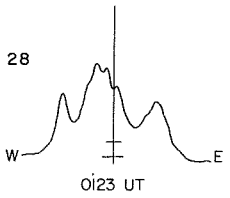
0203 UT



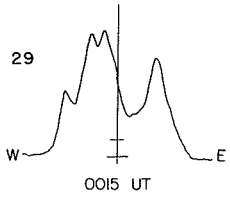
0203 UT



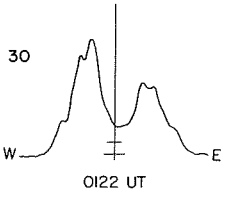
0203 UT



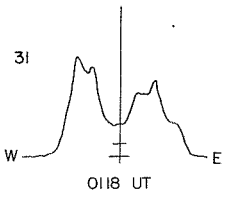
0123 UT



0015 UT



0122 UT



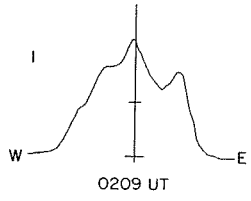
0118 UT

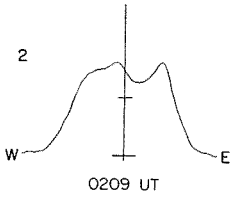
EAST - WEST SOLAR SCANS

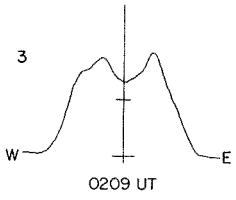
March 1967

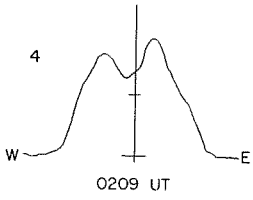
FLEURS, AUSTRALIA

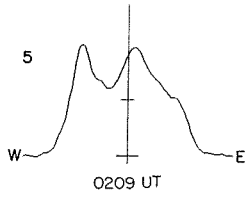
43 cm
Fan-Beam with 4 minutes of arc
E-W Resolution



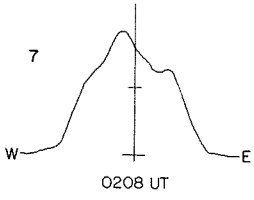




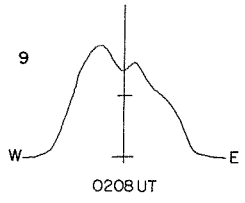


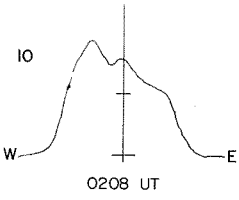


NO DATA
March 6

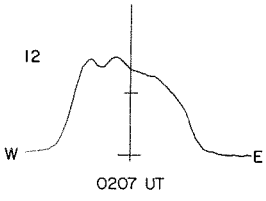


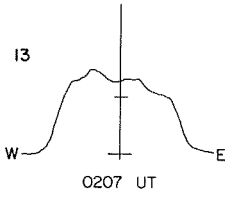
NO DATA
March 8

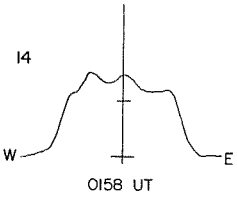


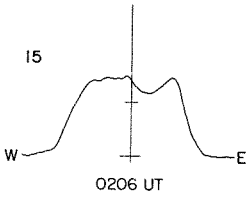


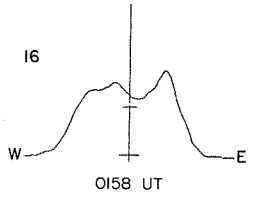
NO DATA
March 11

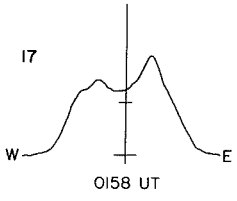


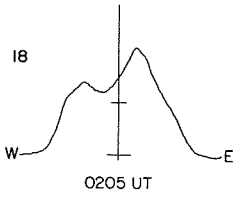


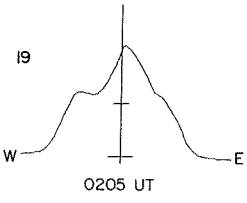


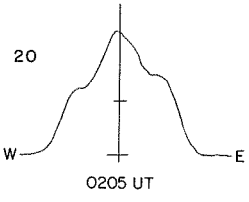


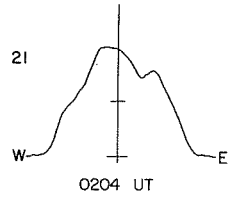


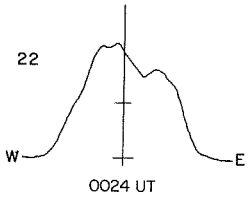


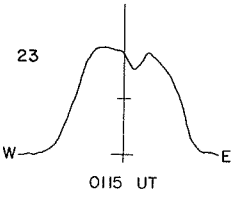




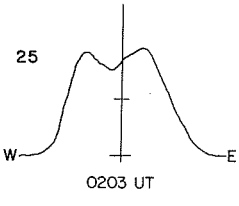


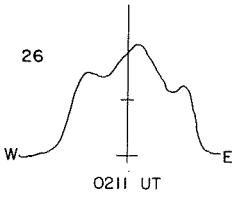


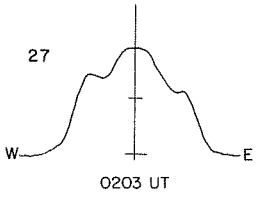


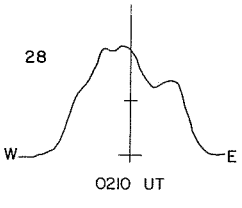


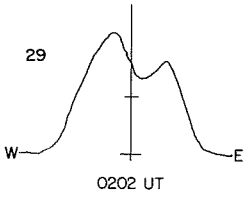
NO DATA
March 24



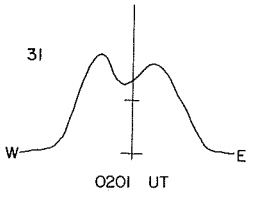








NO DATA
March 30



SOLAR PROTON EVENT
(Provisional)

March 11-16, 1967

Indicator	Effects	Time of Start	Approximate Time of End
I. VLF signals			
A. NAA, Annapolis, Md., to Anchorage	83° phase advance and amplitude modulation	11/2003	14/0500
B. GBR, Rugby, Eng. to Anchorage	~260° phase adv. amplitude modulation	between 11/1800 and 2400	14/0500
II. HF signals			
A. 9 Mc/s Thule to Anchorage	amplitude drop	11/2000	14/0500
B. 12 Mc/s Thule to Anchorage	amplitude drop	11/2000	14/0500
III. Satellite info.			
A. Vela system	increase in neutron count	11/2016 max. 12/0100	?
B. Pioneer VII	1-2 orders of mag. increase on three cosmic ray count channels (.6-190 Mev)	between 11/0815 and 12/0851	16/0015

Table of Contents
for February 1967 Data

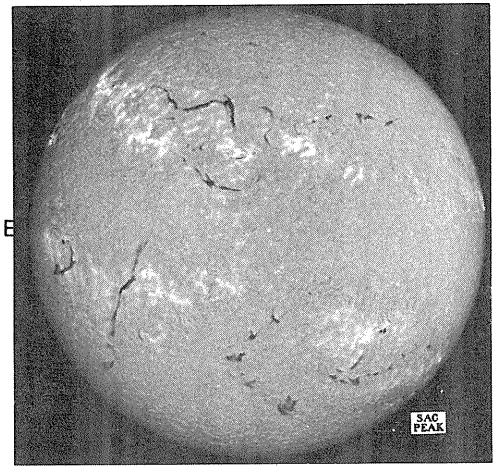
For explanations of the data contained herein see "Descriptive Text" published in February 1967.

Errata: Mt. Wilson Magnetograms on page 33 of IER-FB-270 published February 1967 the end time for the December 12 observations should be approximately 22.25UT, not 17.51. The Deltax for December 20 should be near the same as that for the other days.

FEBRUARY 1, 1967 (P=-11.96, B_0=-6.01, L_0=284.85)

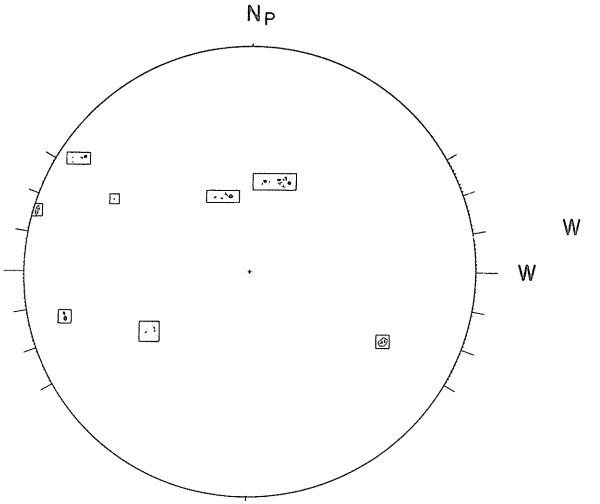
MT. WILSON N_P MAGNETOGRAM
Solid-Plus
Dotted-Minus

SACRAMENTO PEAK Hα

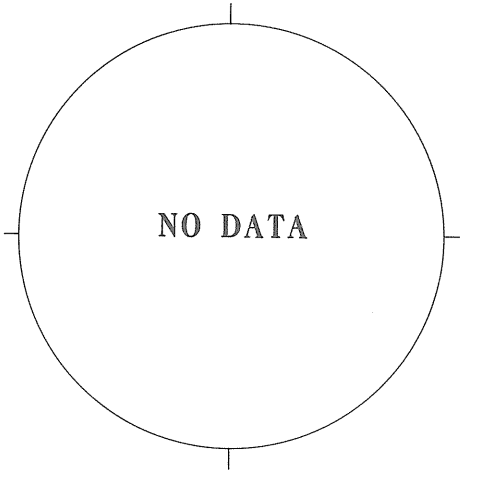


1619 UT

ESSA-BOULDER SUNSPOTS

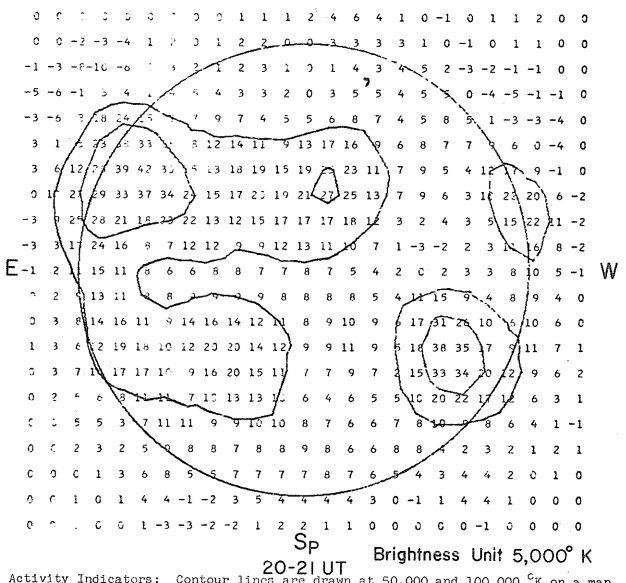


1600 UT



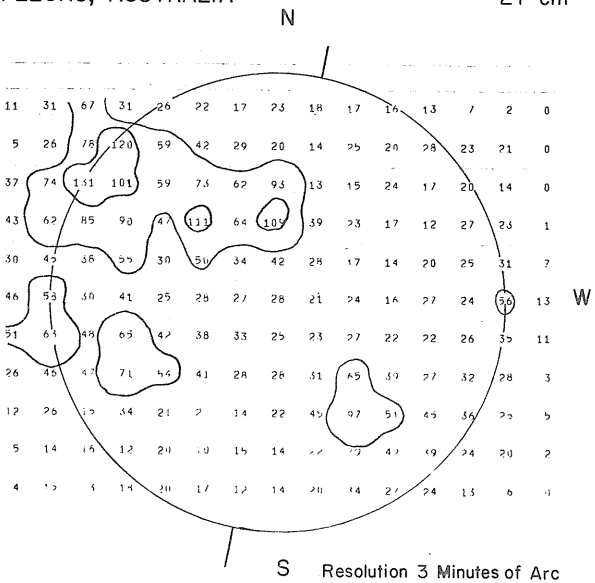
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



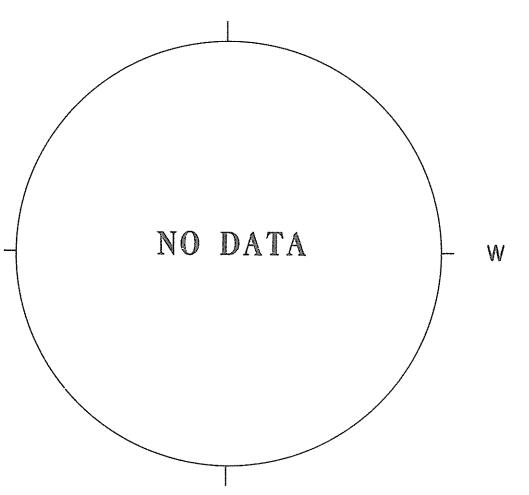
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

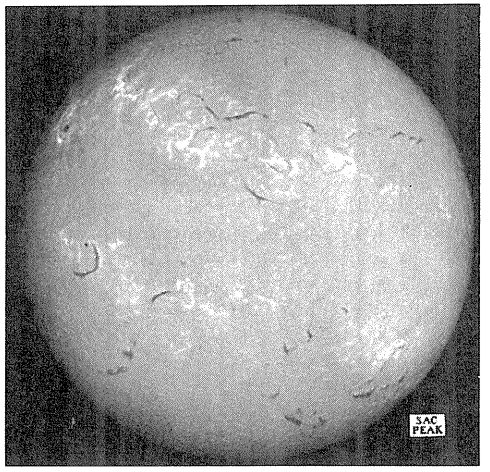


Activity Indicators: Contour lines are drawn at 50,000 and 100,000 °K on a map smoothed by replacing each value by the mean of the nine values centered on it.

41
Feb 67

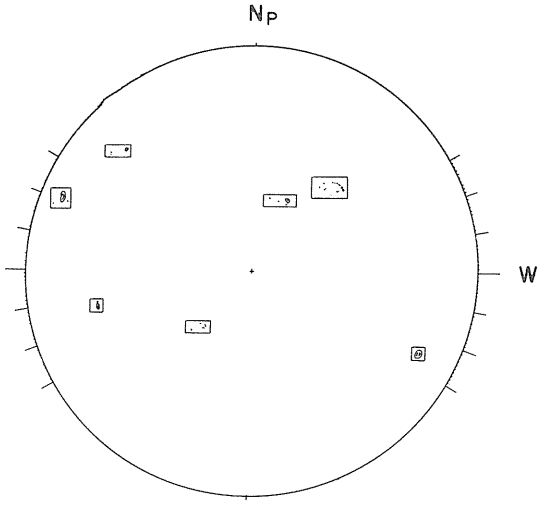
FEBRUARY 2, 1967 (P=-12.36, B_0=-6.09, L_0=271.68)

SACRAMENTO PEAK Hα



1758 UT

ESSA-BOULDER SUNSPOTS

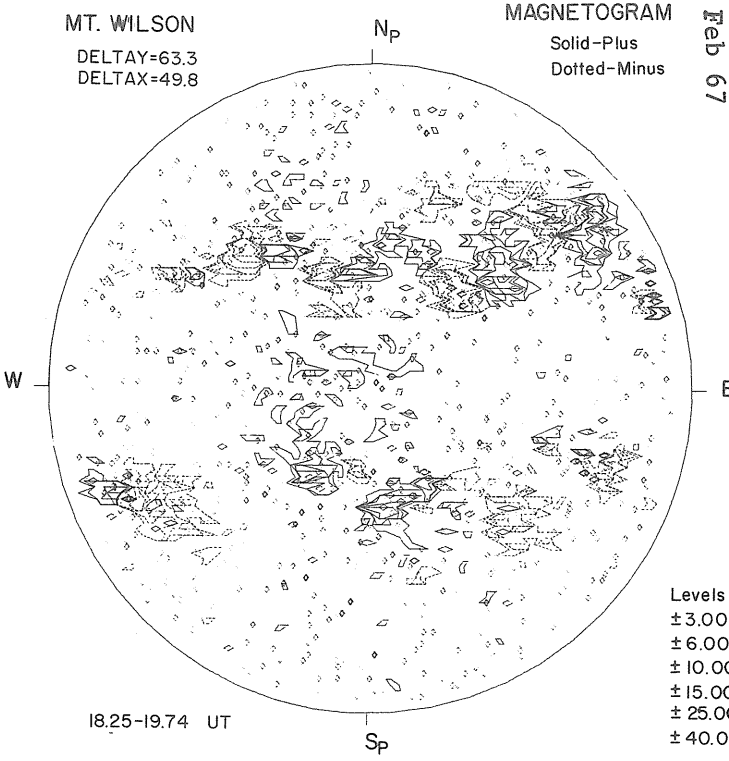


1810 UT

MT. WILSON MAGNETOGRAM

Solid-Plus
Dotted-Minus

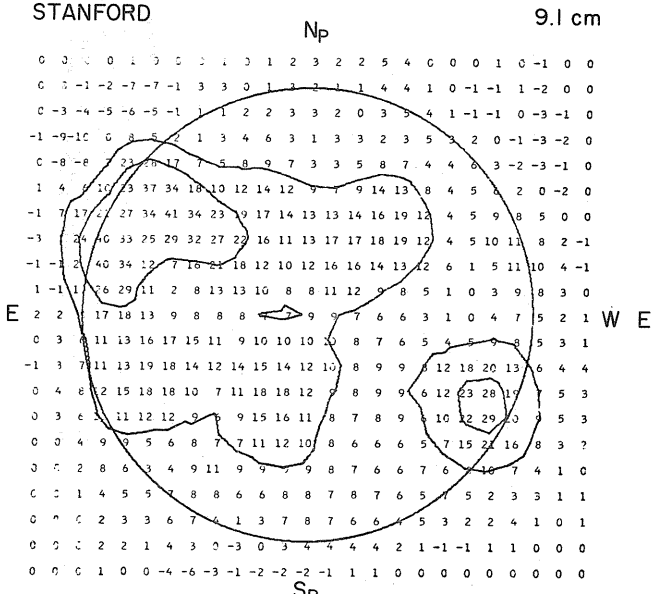
DELTAY=63.3
DELTAX=49.8



18.25-19.74 UT

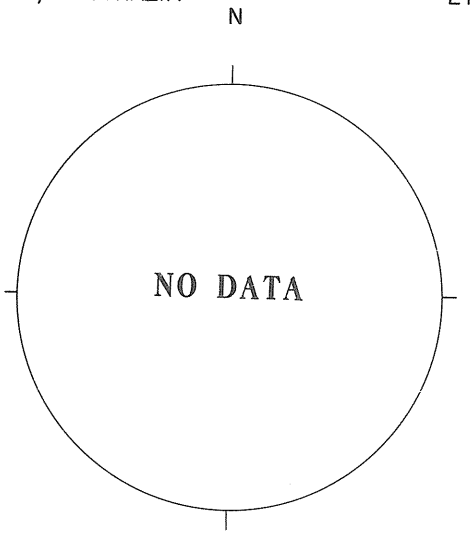
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



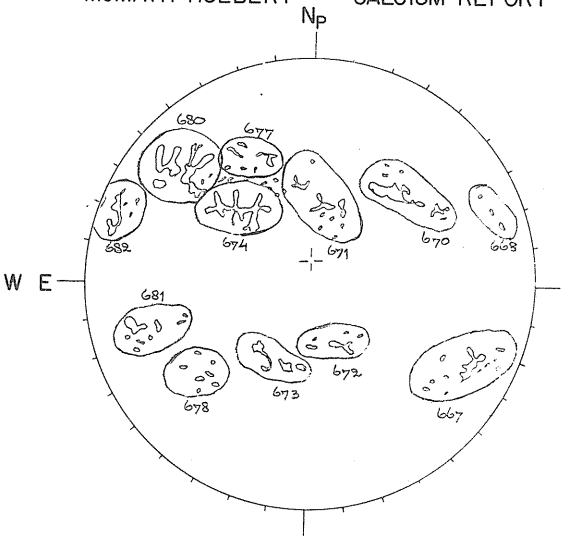
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

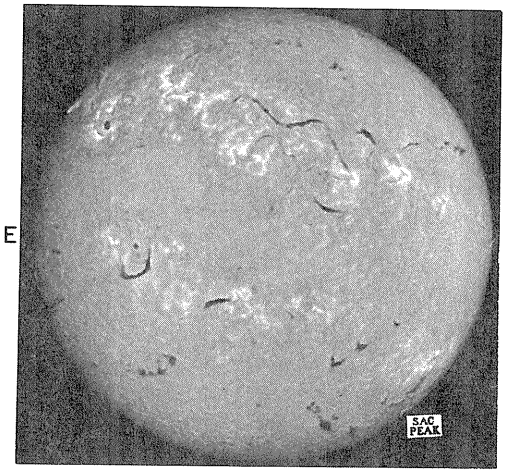


1730 UT

67-28-2.5
70-26- 3
71-19-2.5
72-09-2.5
73-15-2.5
74-32- 3
80-52- 3
81-19-2.5
82-27- 3

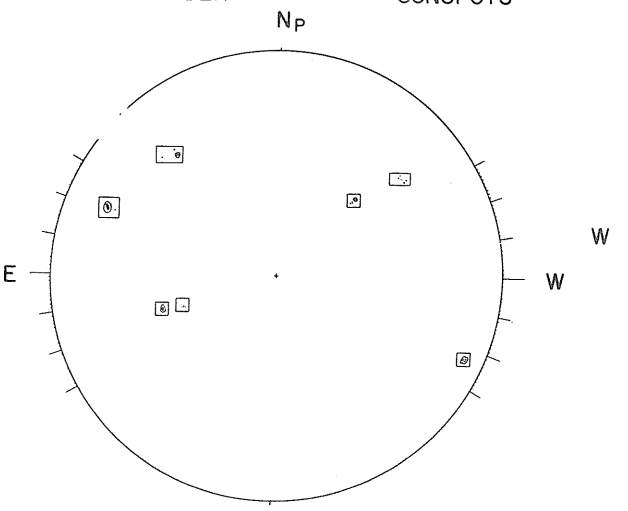
FEBRUARY 3, 1967 (P=-12.77, B_0=-6.15, L_0=258.51)

SACRAMENTO PEAK Hα



1527 UT

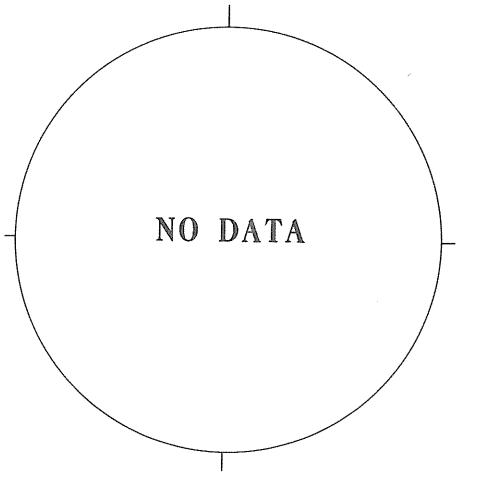
ESSA-BOULDER SUNSPOTS



1600 UT

MT. WILSON NP MAGNETOGRAM

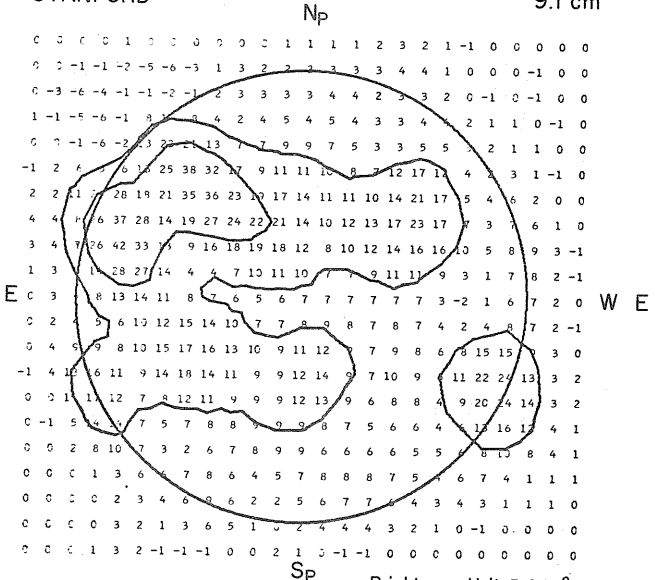
Solid-Plus
Dotted-Minus



Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

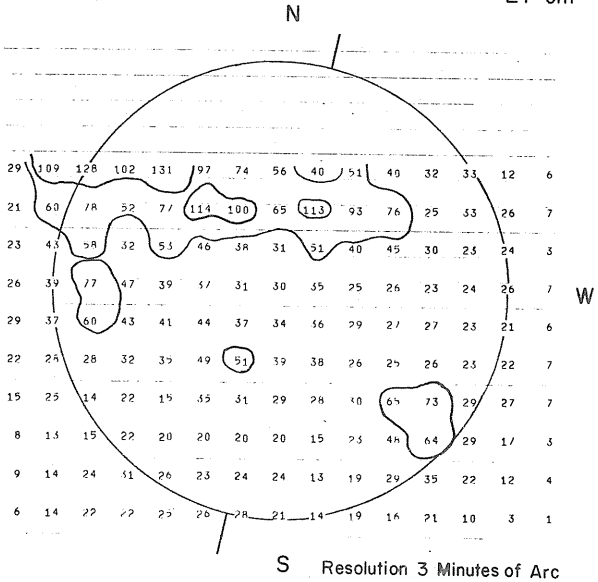
SP

STANFORD 9.1 cm



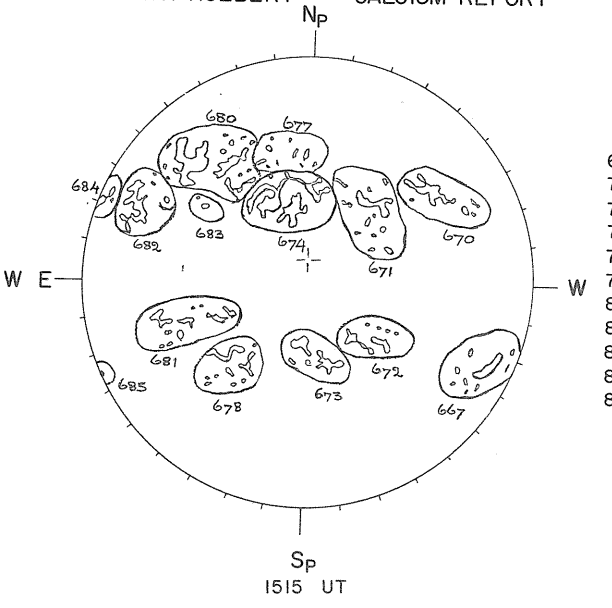
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



67-25-2.5
70-27-3.5
71-24-2.5
72-14-2.5
73-17-2.5
74-36-3.5
80-53- 3
81-20-2.5
82-29- 3
83-03- 3
84-17- 3

1515 UT

FEBRUARY 4, 1967 (P=-13.17, B_0=-6.22, L_0=245.35)

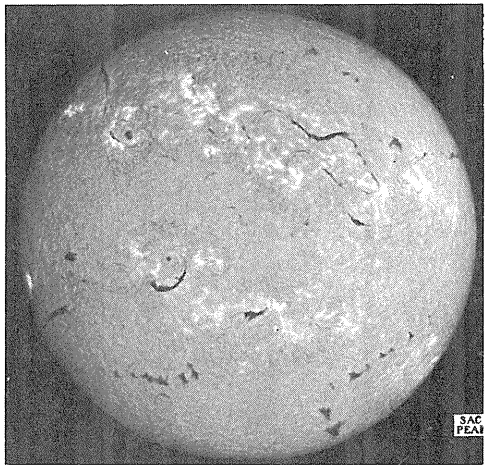
SACRAMENTO PEAK Hα

N

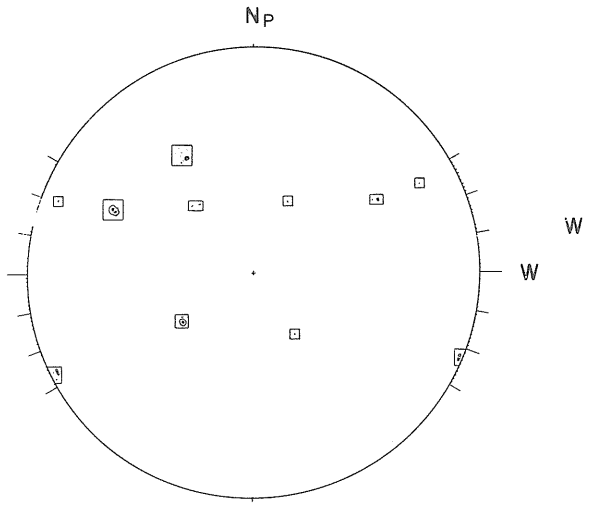
E W

S

1545 UT



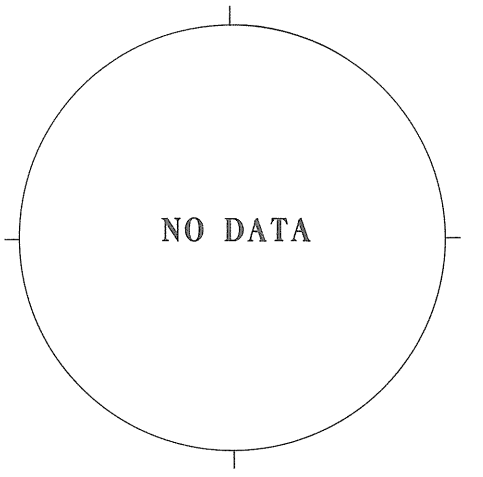
ESSA-BOULDER SUNSPOTS



1505 UT

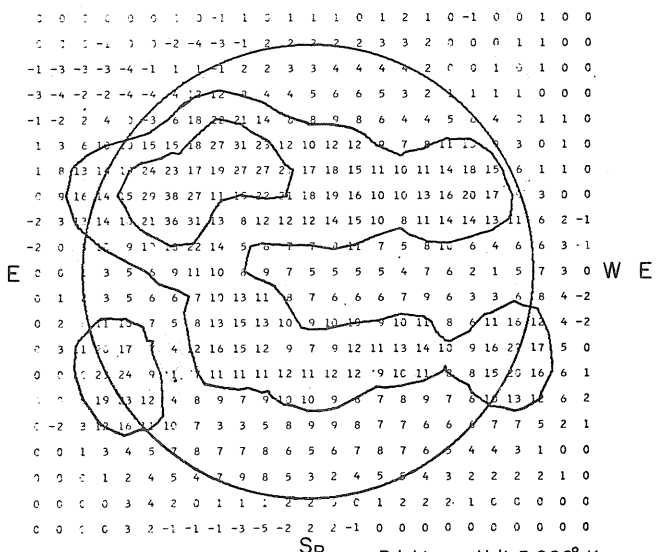
MT. WILSON N_P MAGNETOGRAM

Solid-Plus
Dotted-Minus



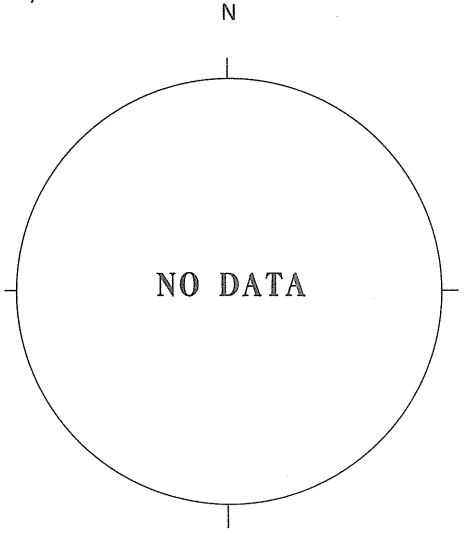
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



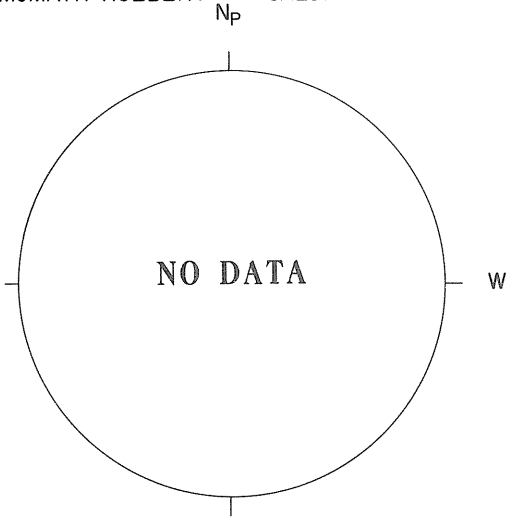
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



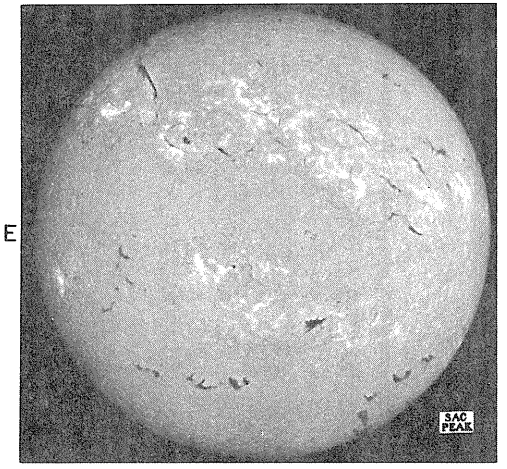
Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



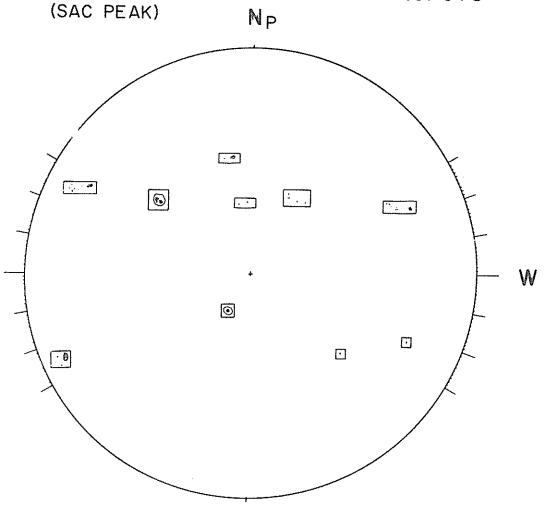
FEBRUARY 5, 1967 (P=-13.56, B_0=-6.29, L_0=232.18)

SACRAMENTO PEAK Hα



1559 UT

ESSA-BOULDER (SAC PEAK) SUNSPOTS

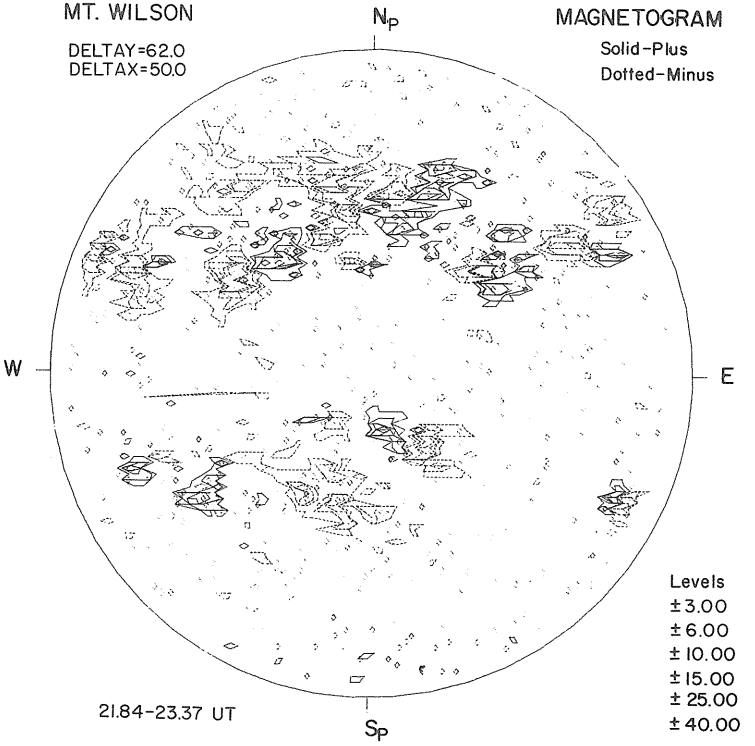


1550 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

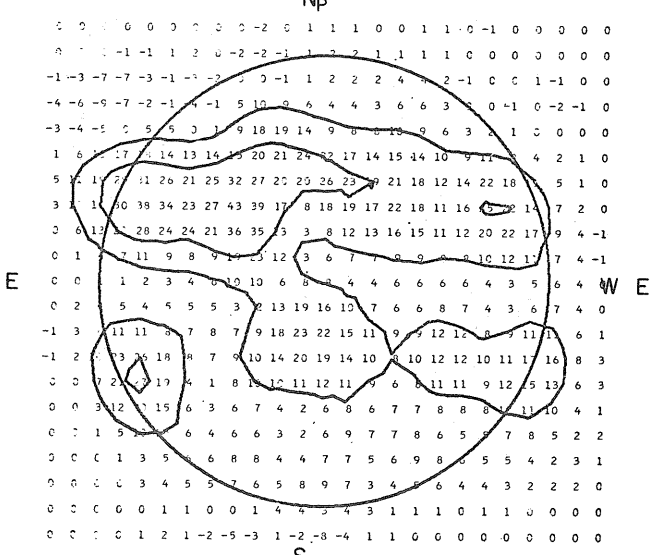
Solid-Plus
Dotted-Minus



21.84-23.37 UT

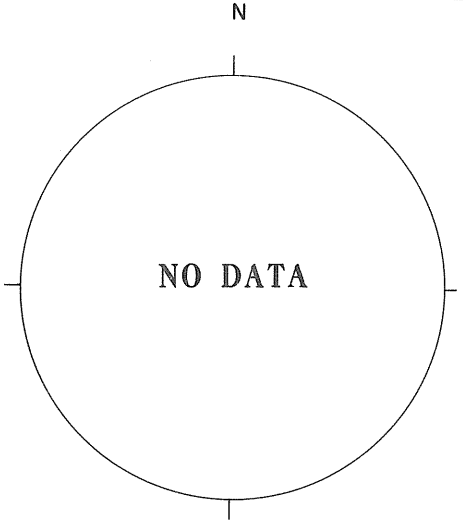
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



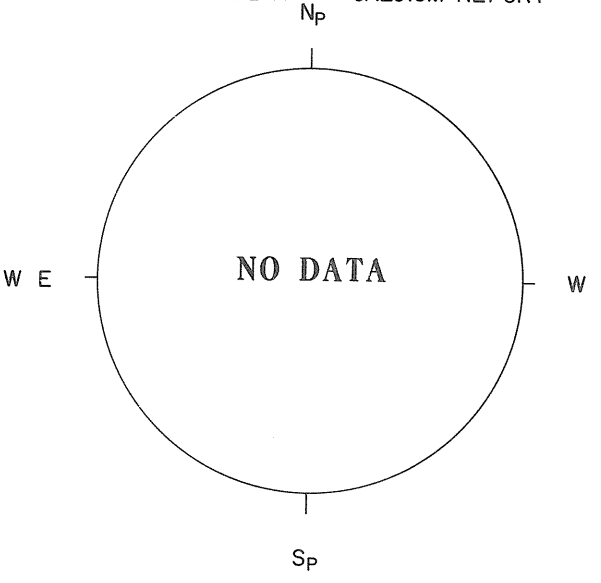
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



02-03 UT Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



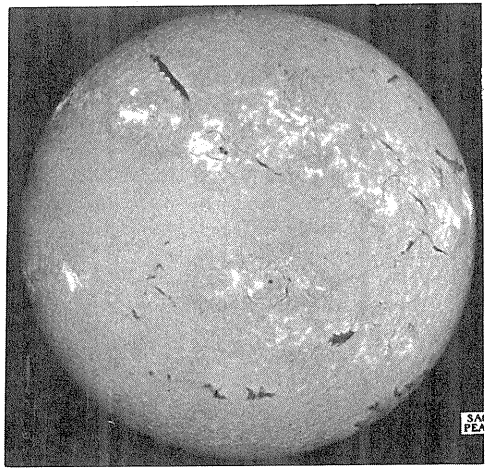
45
Feb 67

FEBRUARY 6, 1967 (P=-13.96, B_0=-6.35, L_0=219.01)

MT. WILSON N_P MAGNETOGRAM
Solid-Plus
Dotted-Minus

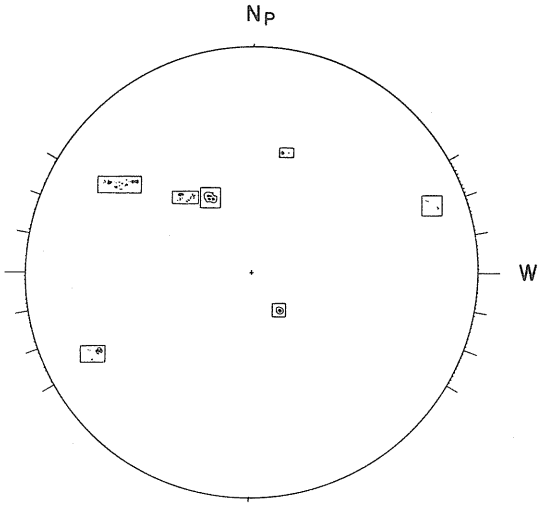
46 Feb 67

SACRAMENTO PEAK Hα

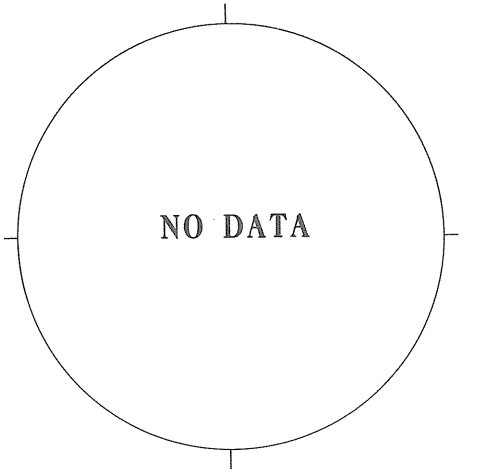


N
E W
S
1654 UT

ESSA-BOULDER SUNSPOTS



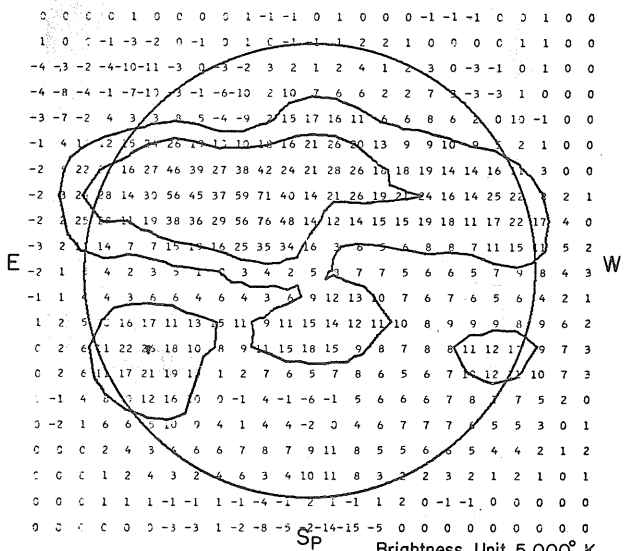
N_P
E W W
S_P
1610 UT



E

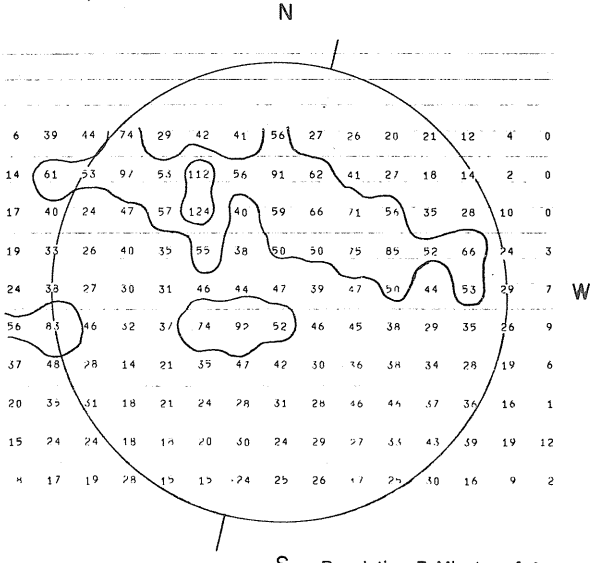
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



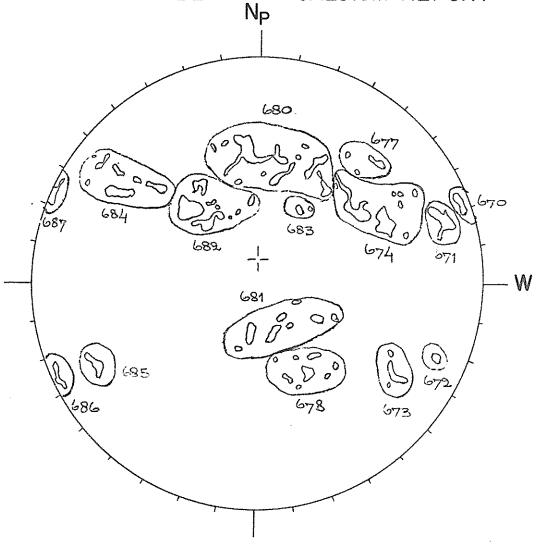
N_P
E W
S_P
20-21 UT
Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



N
W E
S
02-03 UT
Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

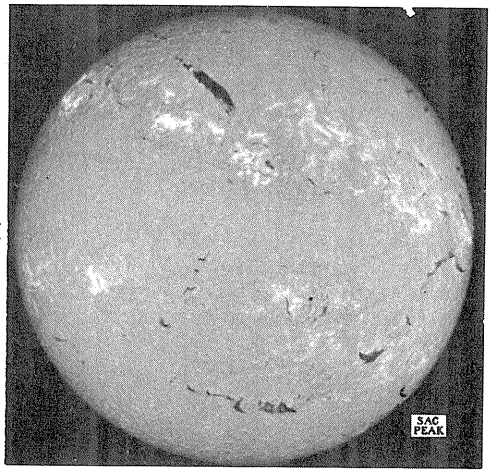


N_P
W E W
S_P
1423 UT

70-30- 3
74-37-2.5
80-54- 3
81-15- 3
82-28- 3
83-04-2.5
84-26-3.5
85-08-3.5
87-23- 3

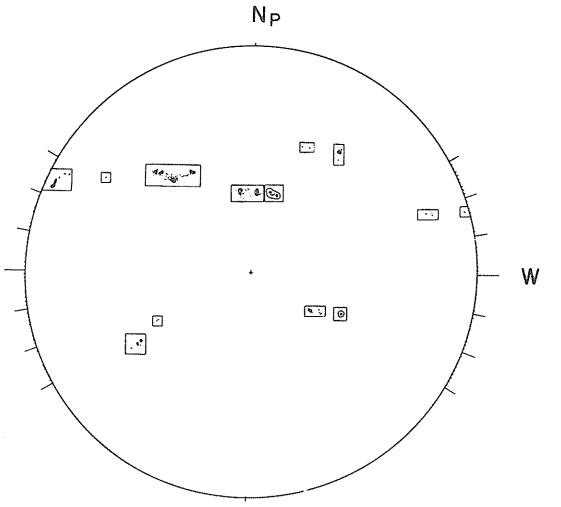
FEBRUARY 7, 1967 (P=-14.34, B_0=-6.41, L_0=205.85)

SACRAMENTO PEAK Hα



1549 UT

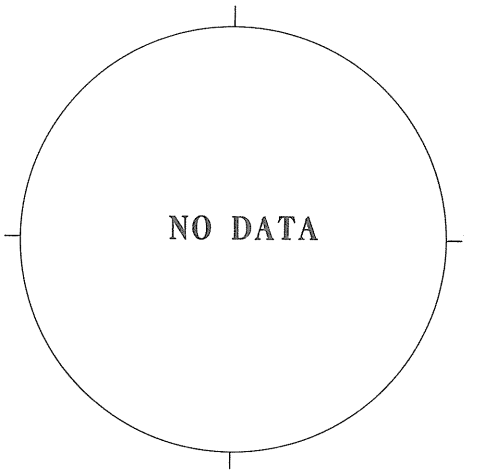
ESSA-BOULDER SUNSPOTS



1925 UT

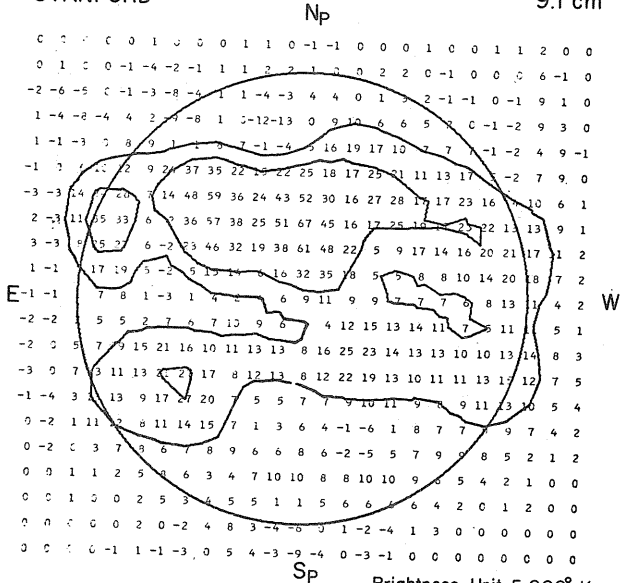
MT. WILSON NP MAGNETOGRAM

Solid-Plus
Dotted-Minus



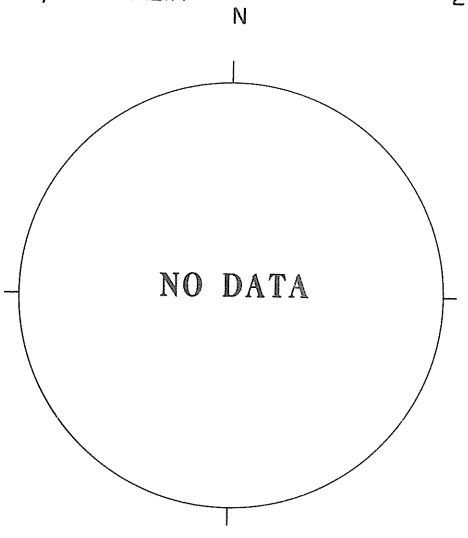
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



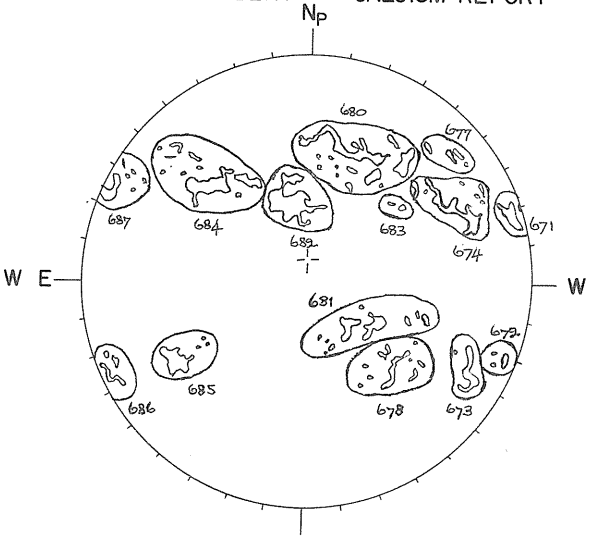
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



02-03 UT Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



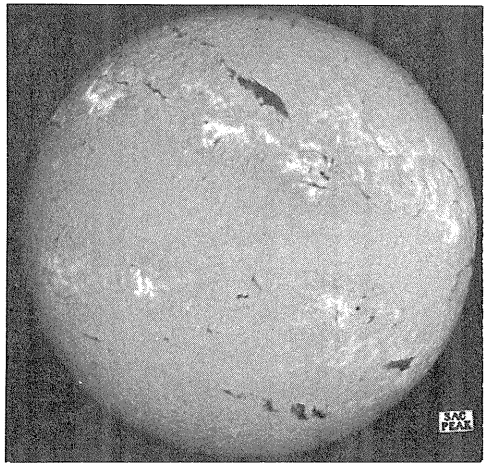
1350 UT

71-23-2.5
73-17-2.5
74-38- 3
80-53- 3
81-26-3.5
82-36- 3
84-43-3.5
85-20-3.5
86-12-2.5
87-36-3.5

FEBRUARY 8, 1967 (P=-14.72, B_0=-6.47, L_0=192.68)

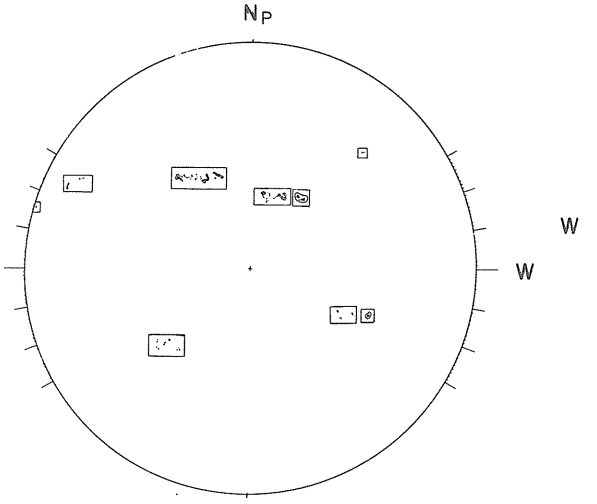
MT. WILSON N_P MAGNETOGRAM
Solid-Plus
Dotted-Minus

SACRAMENTO PEAK Hα

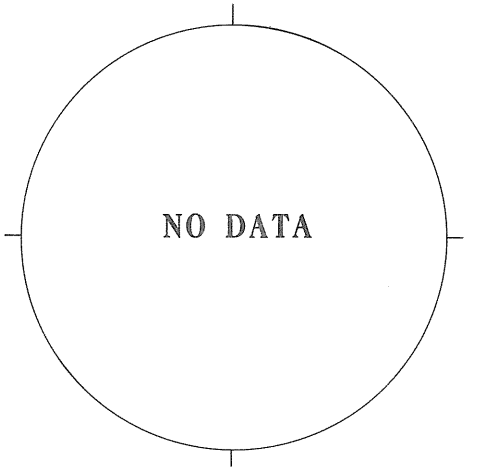


1624 UT

ESSA-BOULDER SUNSPOTS

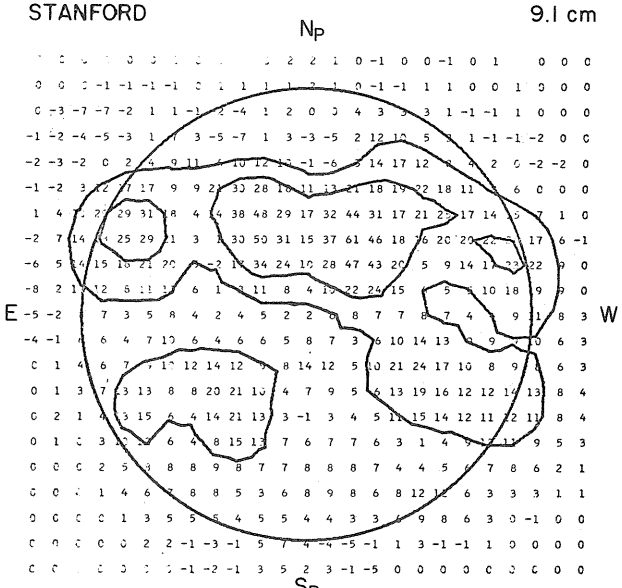


1630 UT



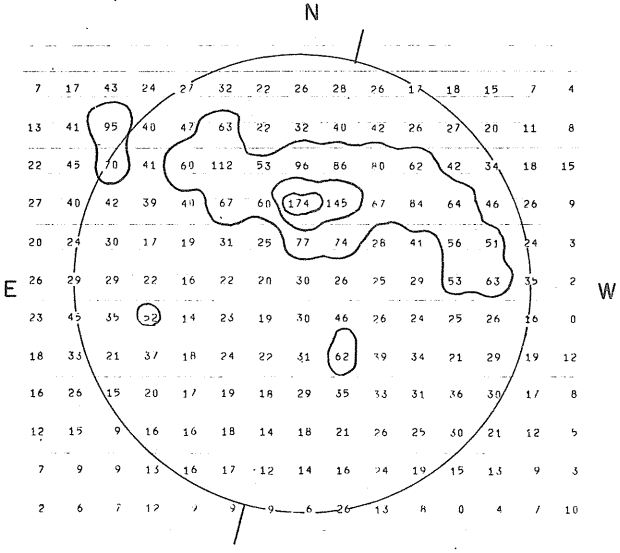
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



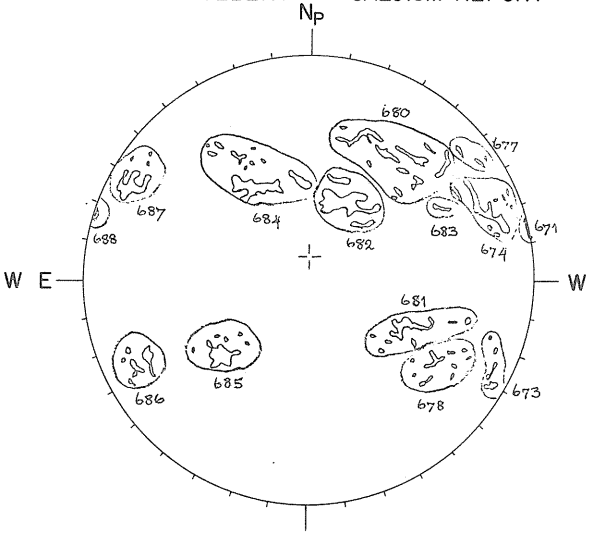
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



02-03 UT Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

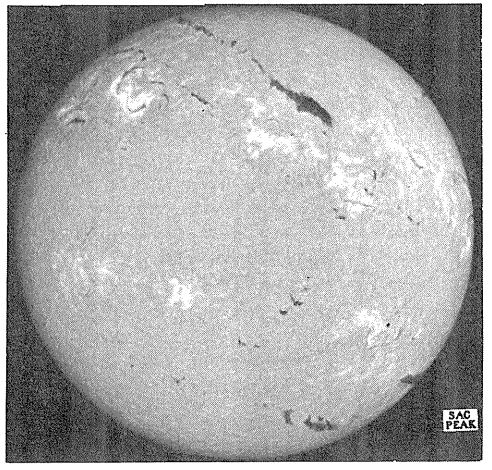


1420 UT

74-31-2.5
80-43- 3
81-23- 3
82-35- 3
84-42-3.5
85-20-3.5
86-18-2.5
87-46-3.5
88-14- 3

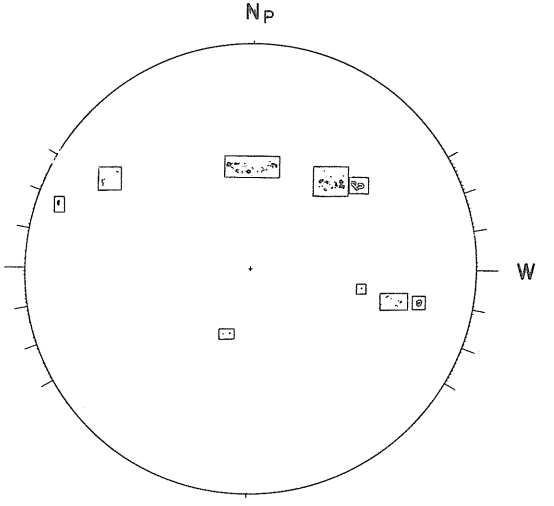
FEBRUARY 9, 1967 (P=-15.10, B_0=-6.53, L_0=179.52)

SACRAMENTO PEAK Hα



1605 UT

ESSA-BOULDER SUNSPOTS

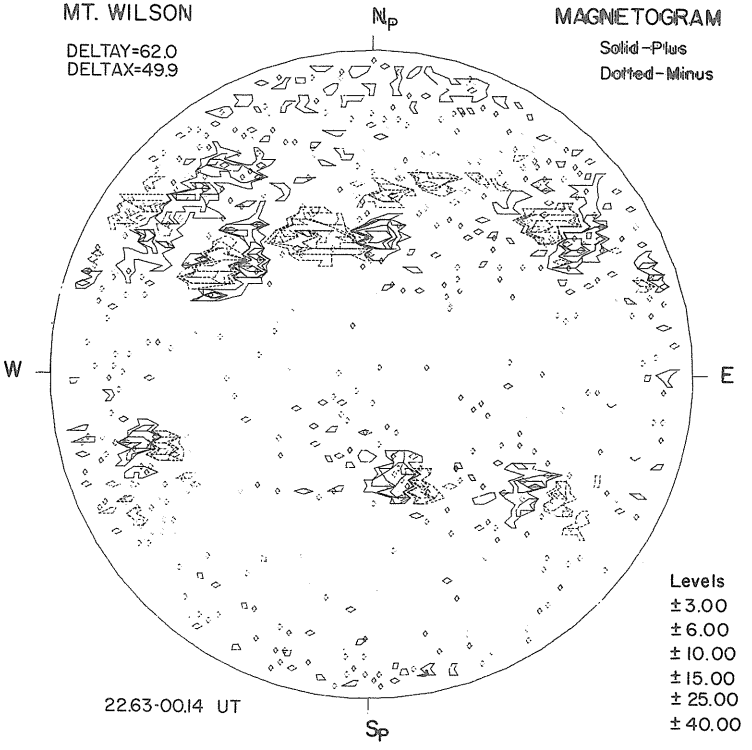


1905 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=49.9

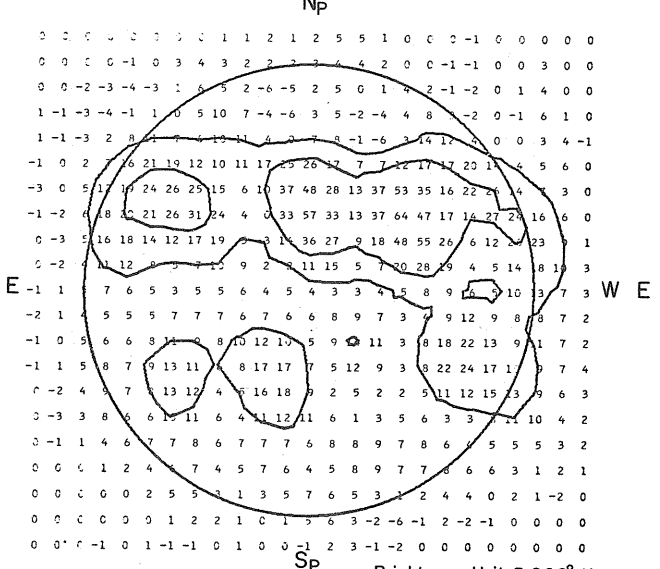
Solid-Plus
Dotted-Minus



22.63-00.14 UT

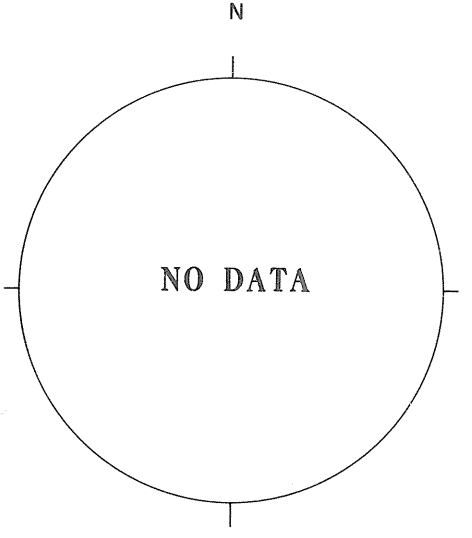
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



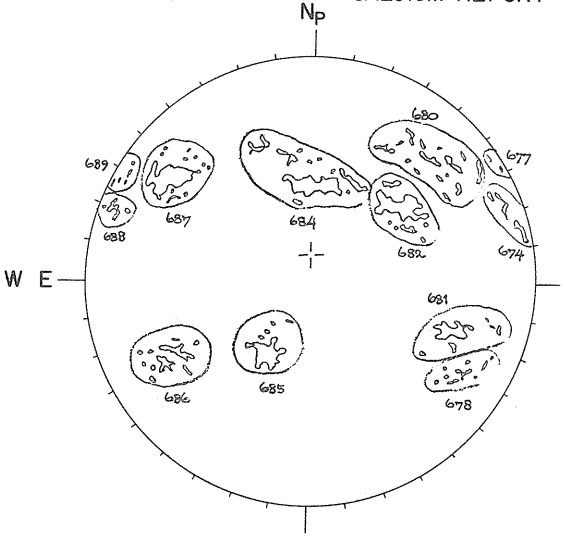
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



02-03 UT Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



1555 UT

74-26 2.5
80-40-2.5
81-23- 3
82-36-3.5
84-44-3.5
85-21-3.5
87-48-3.5
88-16-2.5

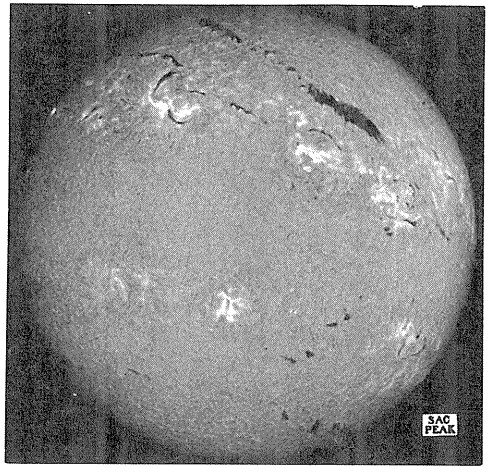
FEBRUARY 10, 1967 (P=-15.47, B_0=-6.58, L_0=166.35)

MT. WILSON N_P MAGNETOGRAM
Solid-Plus
Dotted-Minus

SACRAMENTO PEAK Hα

N

E W



S

1528 UT

ESSA-BOULDER SUNSPOTS

N_P

E W

W

S_P

1600 UT

NO DATA

E

Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm

N_P

E W

S_P

20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm

N

E W

S

02-03 UT Brightness Unit 1,700° K Resolution 3 Minutes of Arc

McMATH-HULBERT CALCIUM REPORT

N_P

W E

W

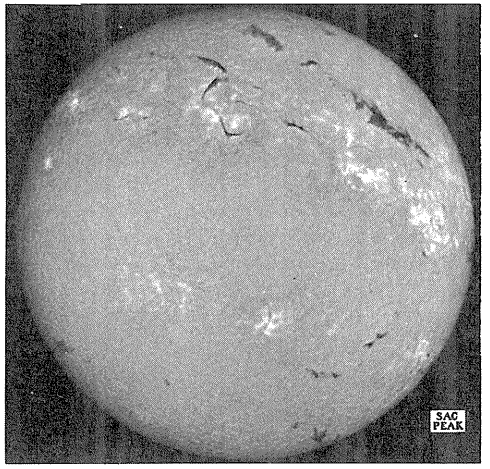
S_P

1555 UT

80-31-2.5
81-24-2.5
82-37-3.5
84-47-3.5
85-23-3.5
86-19-2.5
87-51-3.5
88-12-2.5
91-04-3

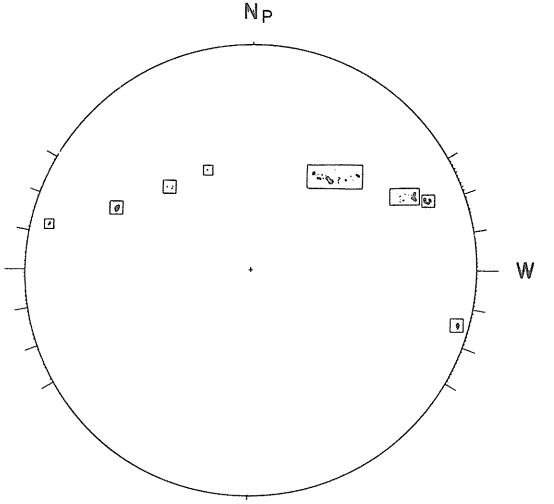
FEBRUARY 11, 1967 (P=-15.83, B_0=-6.63, L_0=153.18)

SACRAMENTO PEAK Hα



1623 UT

ESSA-BOULDER SUNSPOTS

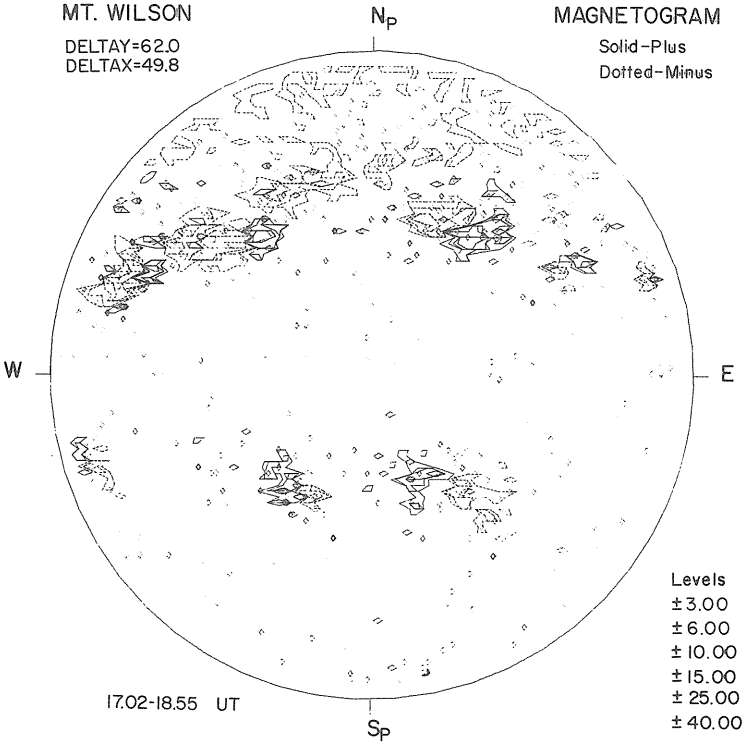


1530 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=49.8

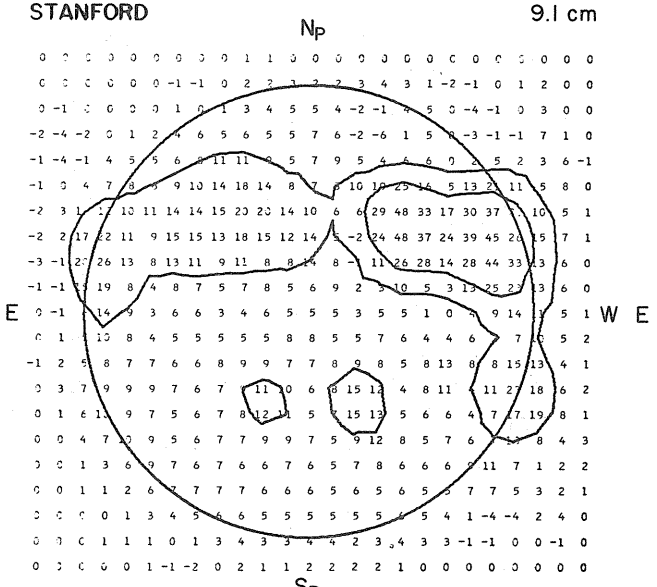
Solid-Plus
Dotted-Minus



17.02-18.55 UT

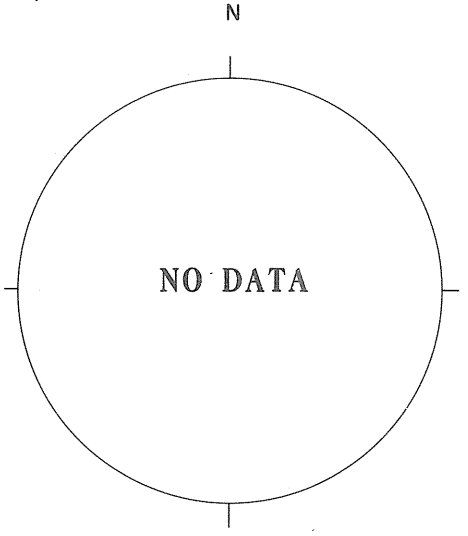
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



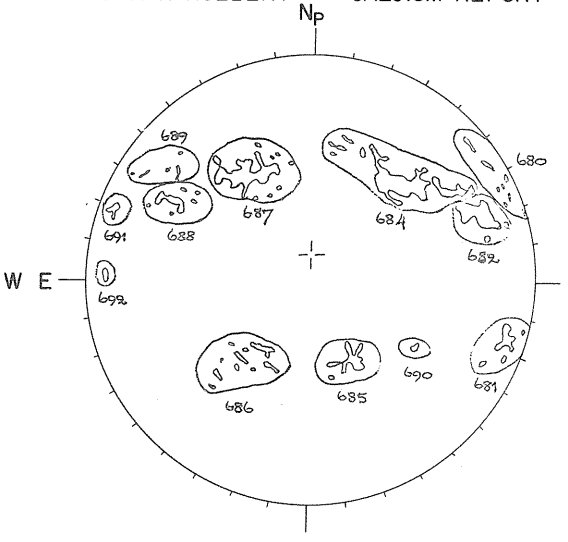
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



02-03 UT Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



1420 UT

81-28-2.5
82-41-3.5
84-62-3.5
85-17-3
86-16-2.5
87-48-3
88-12-2.5
91-09-3
92-06-3

FEBRUARY 12, 1967 (P=-16.19, B_0=-6.68, L_0=140.02)

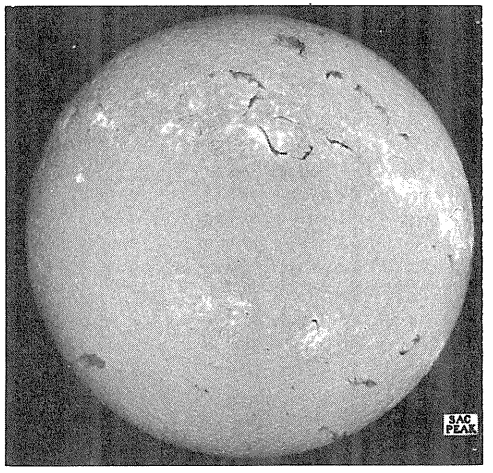
SACRAMENTO PEAK Hα

N

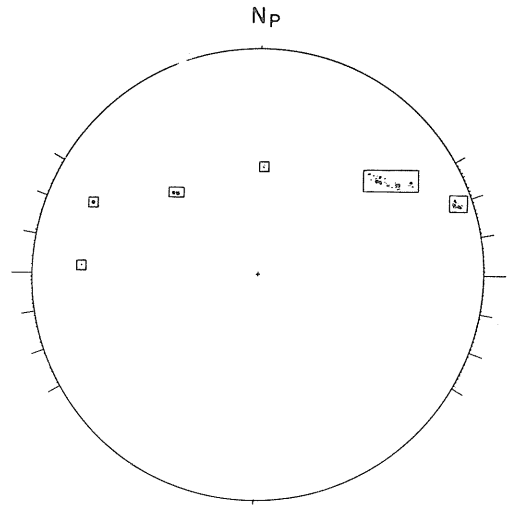
E W

S

1526 UT



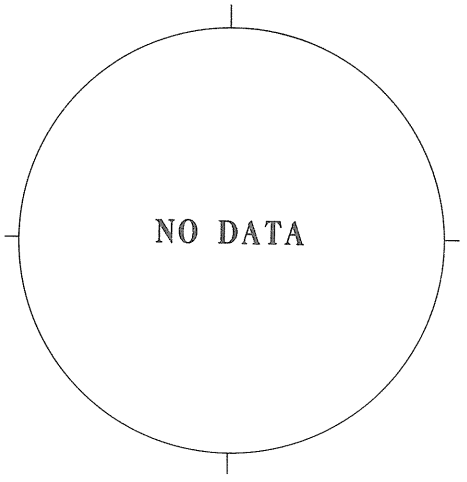
ESSA-BOULDER SUNSPOTS



1720 UT

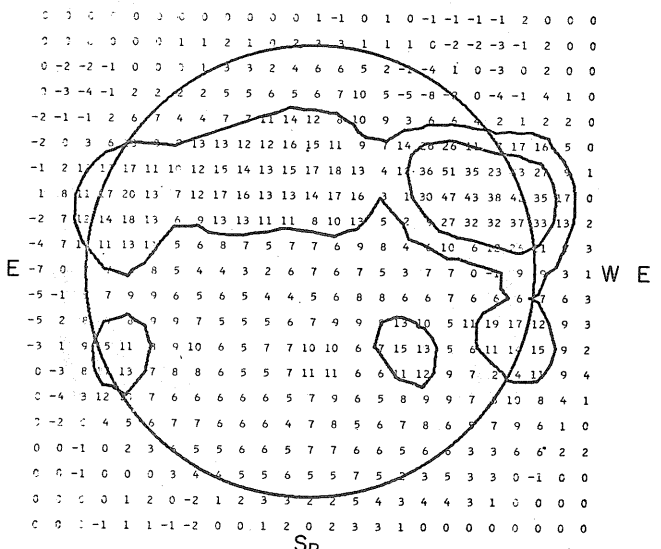
MT. WILSON MAGNETOGRAM

Solid-Plus
Dotted-Minus



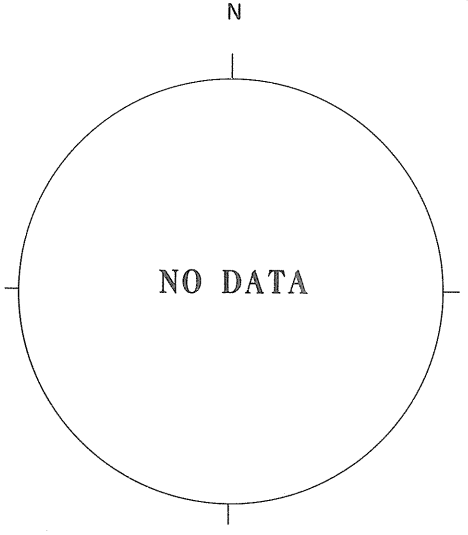
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



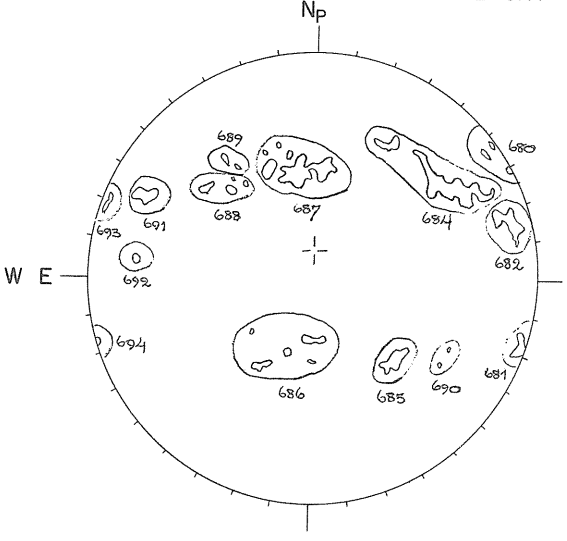
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



02-03 UT Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



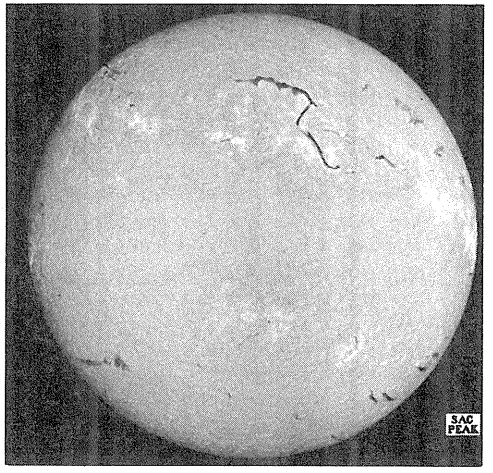
1430 UT

81-30-2
82-40-3.5
84-65-3.5
85-15-2.5
86-10-2.5
87-43-3
88-07-2.5
91-15-3
92-03-3.5

FEBRUARY 13, 1967 (P=-16.55, B_0=-6.73, L_0=126.85)

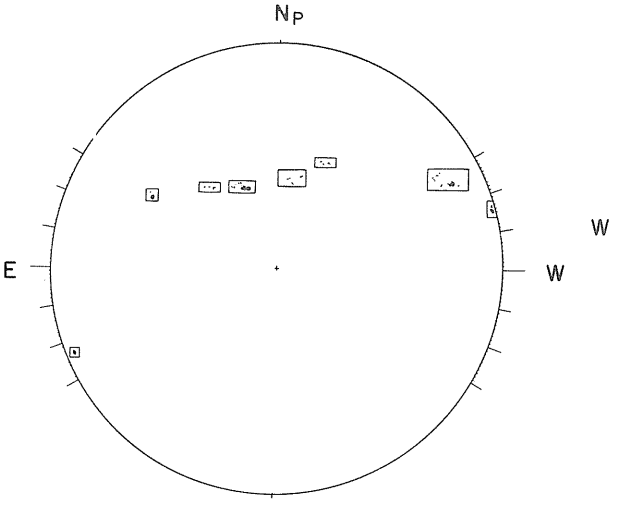
MT. WILSON N_P MAGNETOGRAM
Solid-Plus
Dotted-Minus

SACRAMENTO PEAK Hα

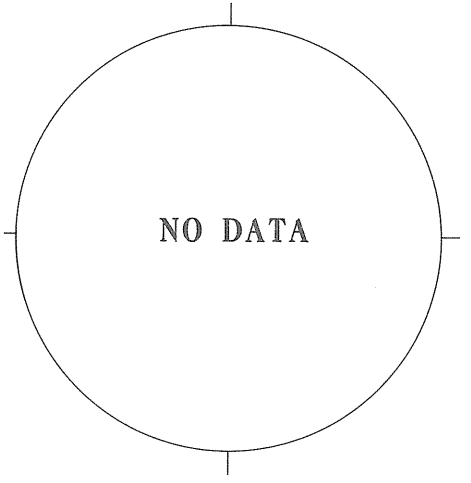


1511 UT

ESSA-BOULDER SUNSPOTS

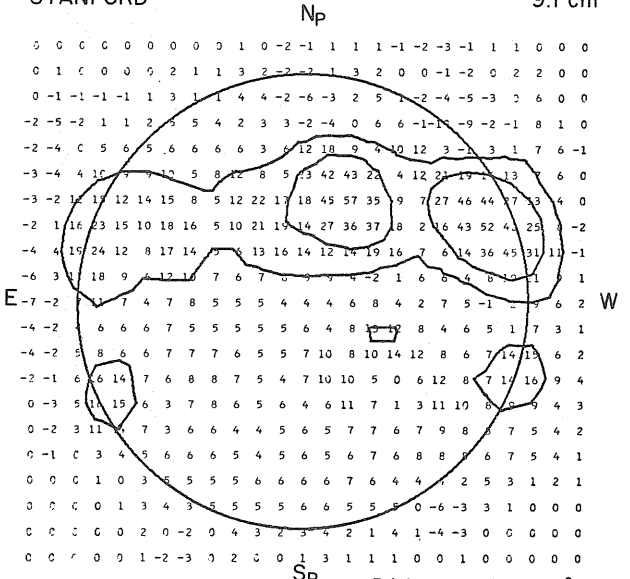


1840 UT



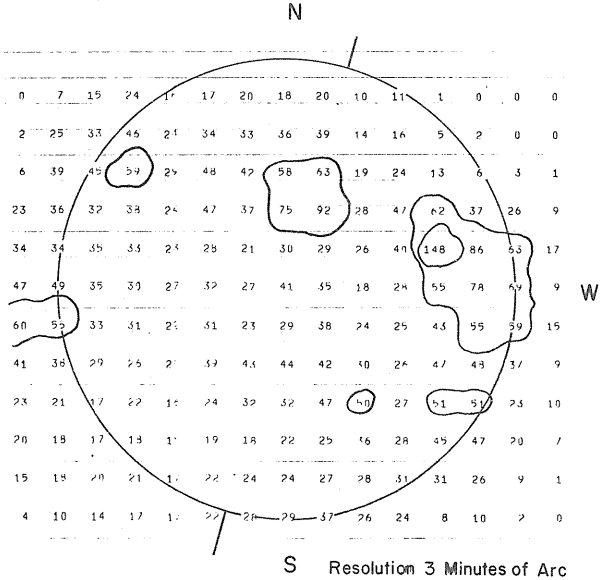
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



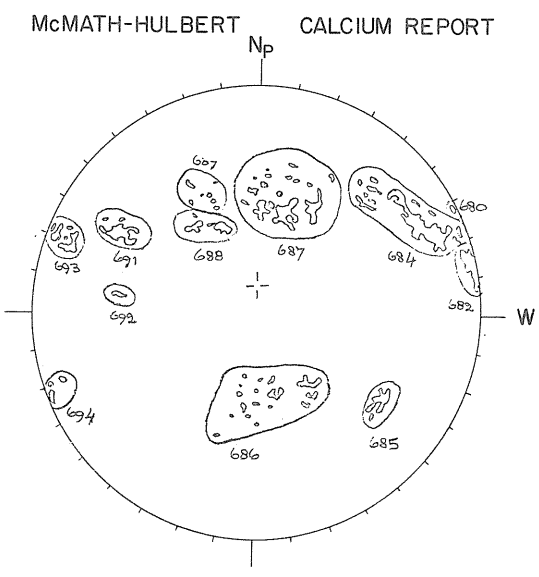
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



1545 UT

82-35-3.5
84-60-3.5
85-11-2.5
86-17-2.5
87-37-3.5
88-07- 3
91-12-2.5
94-08- 3

FEBRUARY 14, 1967 (P=-16.89, B_0=-6.78, L_0=113.68)

54
Feb 67

SACRAMENTO PEAK Hα

N

E W

S

1846 UT

ESSA-BOULDER SUNSPOTS

N_P

E W

W

S_P

1530 UT

MT. WILSON N_P MAGNETOGRAM

Solid-Plus
Dotted-Minus

NO DATA

E

Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm

N_P

E W

S_P

20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm

N

NO DATA

W E

S

02-03 UT

Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

N_P

689 688 687 684 693 691 695 692 682 694 686 685

W E W

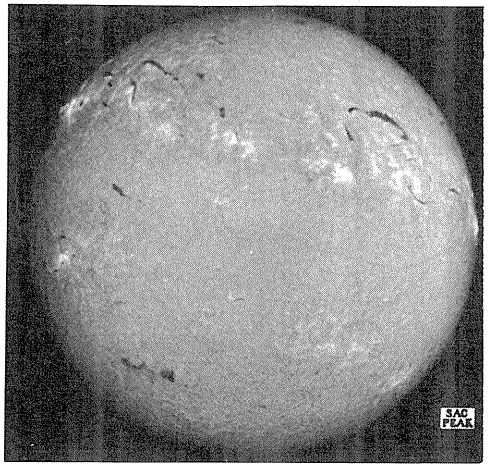
S_P

1350 UT

82-10-2.5
84-53-3.5
85-13-2.5
86-19-2.5
87-34- 3
88-13-3.5
91-18-2.5
93-32-2.5
94-17- 3
95-10- 3

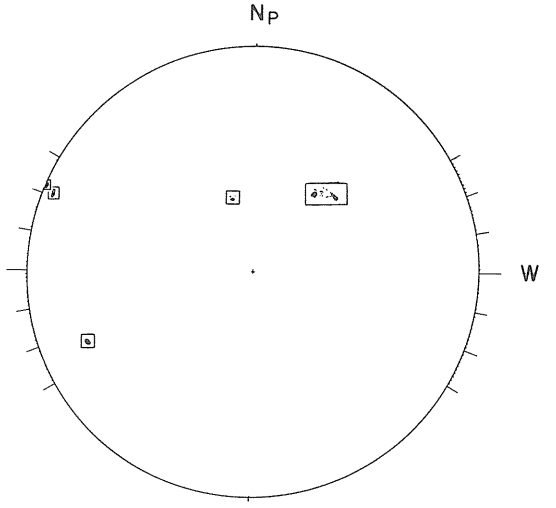
FEBRUARY 15, 1967 (P=-17.24, B_o=-6.82, L_o=100.51)

SACRAMENTO PEAK Hα



1743 UT

ESSA-BOULDER SUNSPOTS

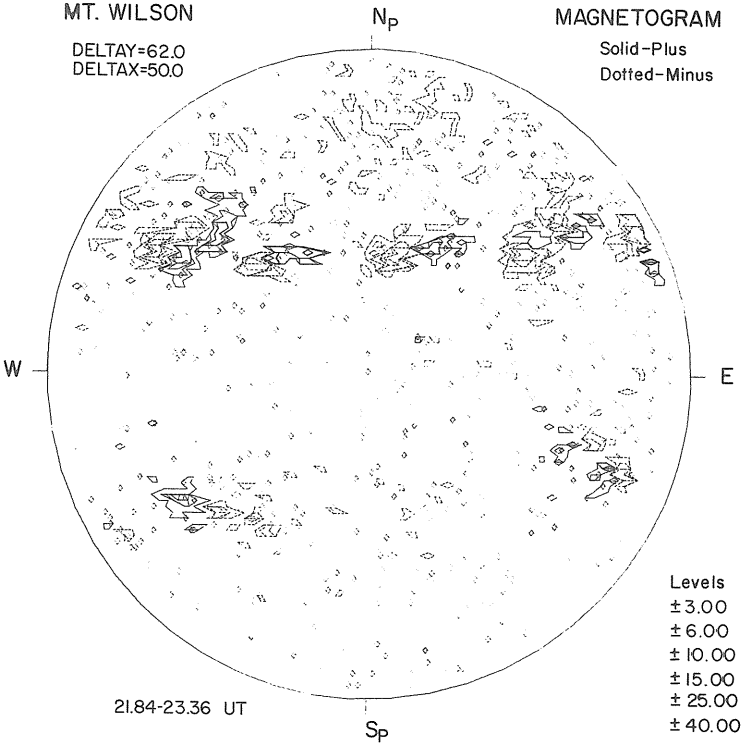


1800 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

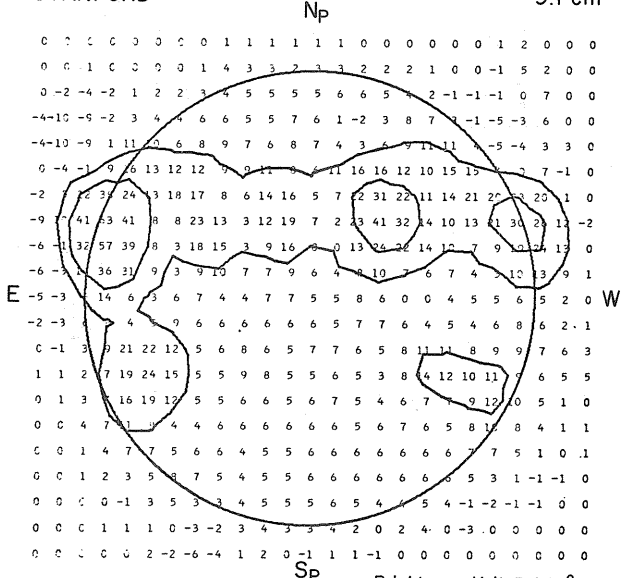
Solid-Plus
Dotted-Minus



21.84-23.36 UT

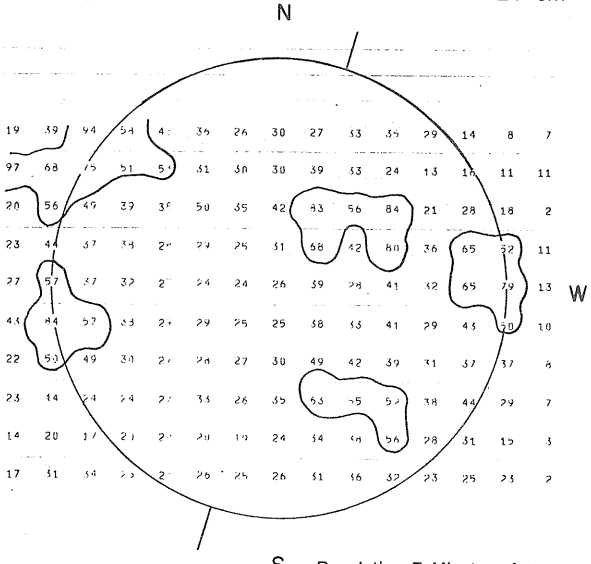
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



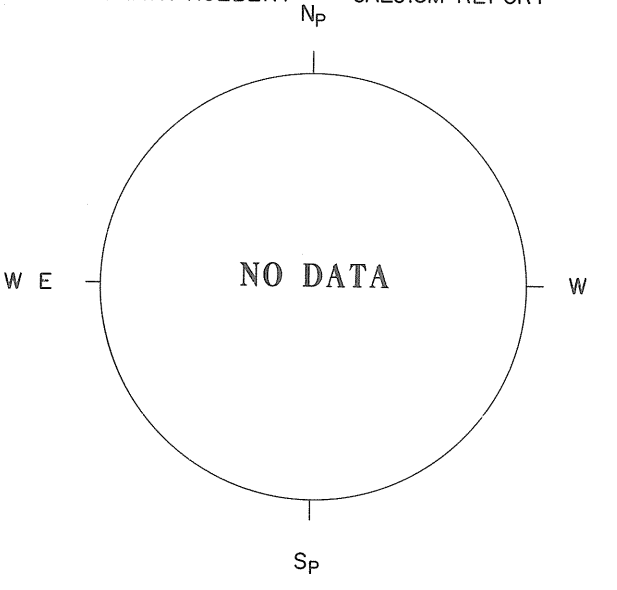
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

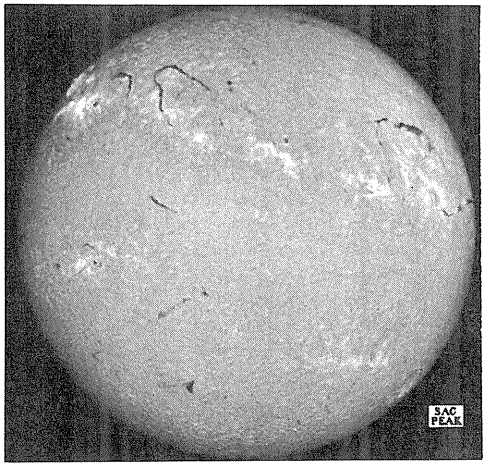


55
Feb 67

FEBRUARY 16, 1967 (P=-17.57, B_0=-6.87, L_0=87.35)

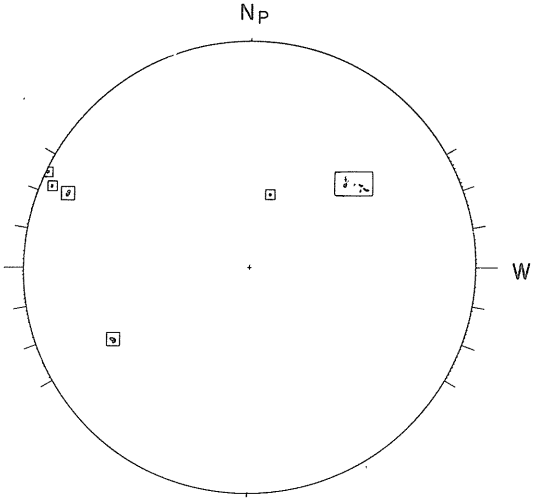
56
Feb 67

SACRAMENTO PEAK Hα



1541 UT

ESSA-BOULDER SUNSPOTS

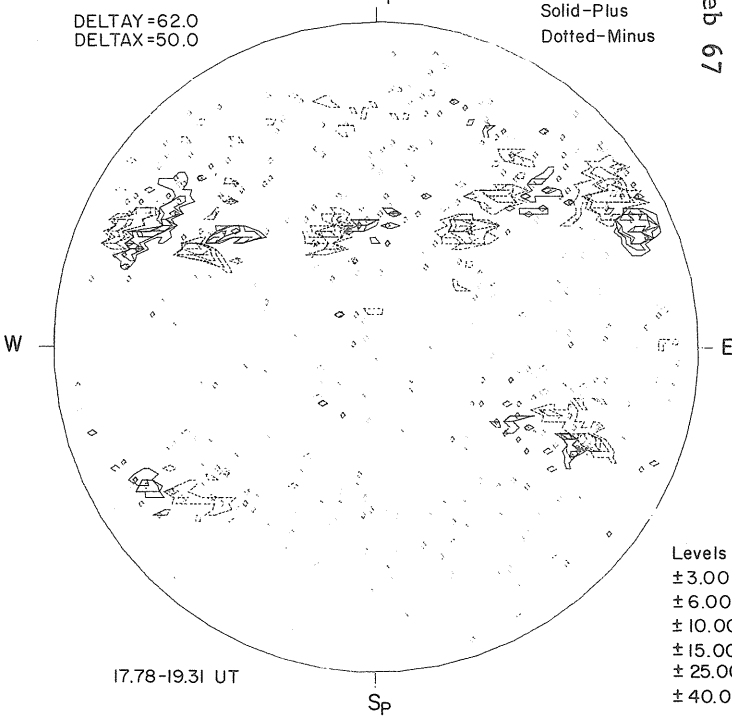


1520 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

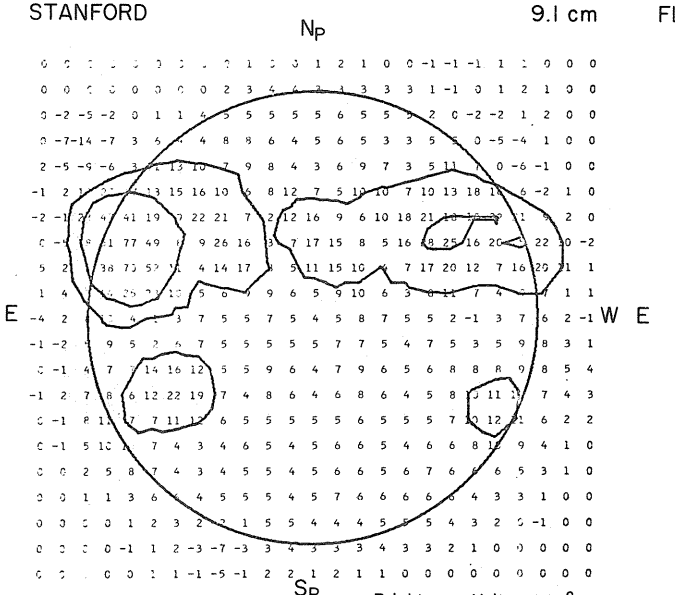
Solid-Plus
Dotted-Minus



17.78-19.31 UT

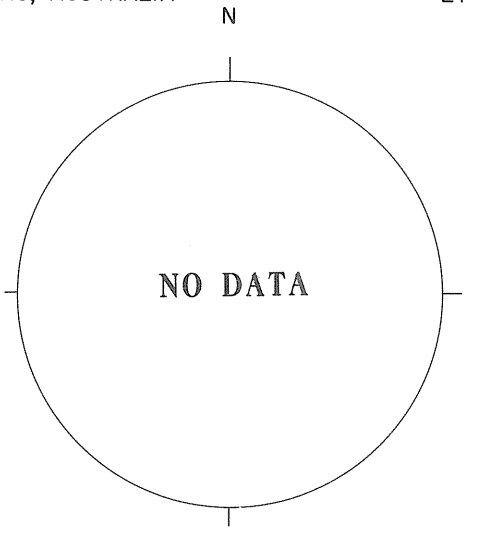
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



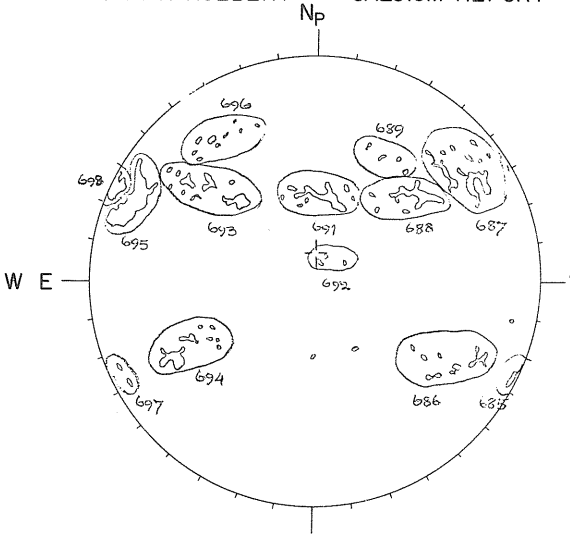
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

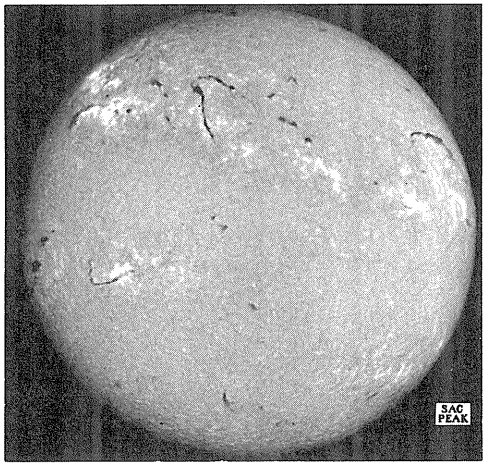


1430 UT

87-38-2.5
88-19-3
91-18-2.5
93-24-3
94-19-2.5
95-66-3.5
98-41-3

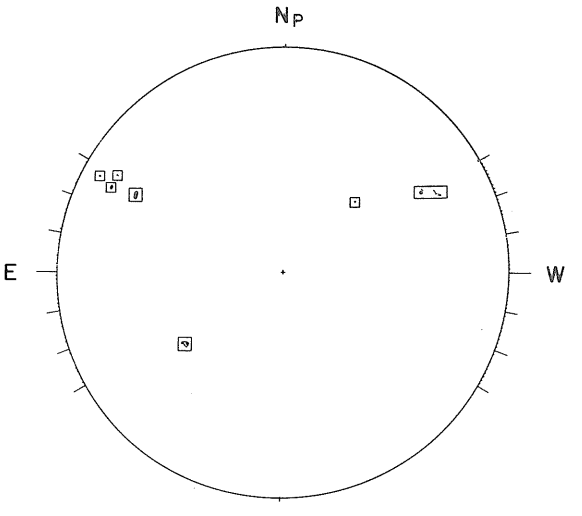
FEBRUARY 17, 1967 (P=-17.91, B_0=-6.91, L_0=74.18)

SACRAMENTO PEAK Hα



1501 UT

ESSA-BOULDER SUNSPOTS

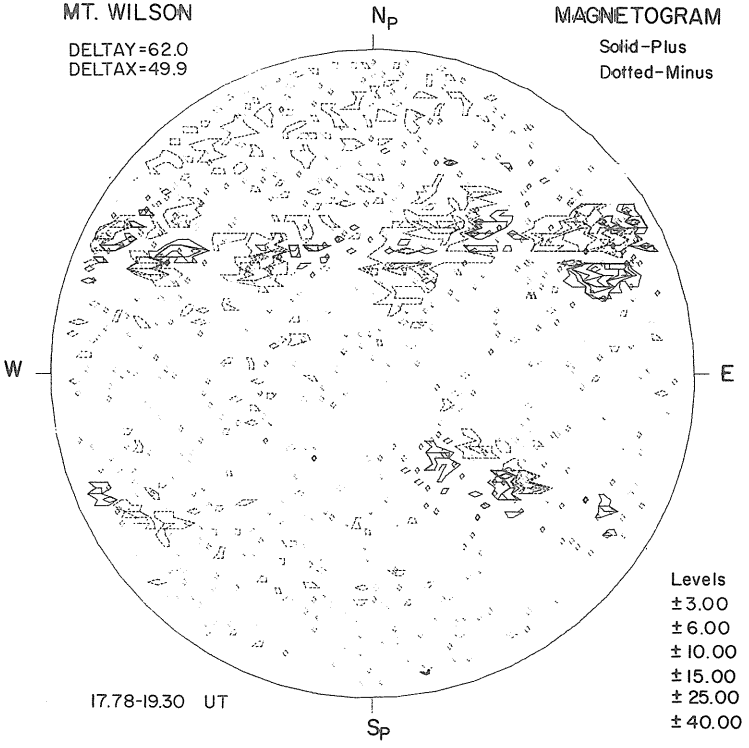


1530 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=49.9

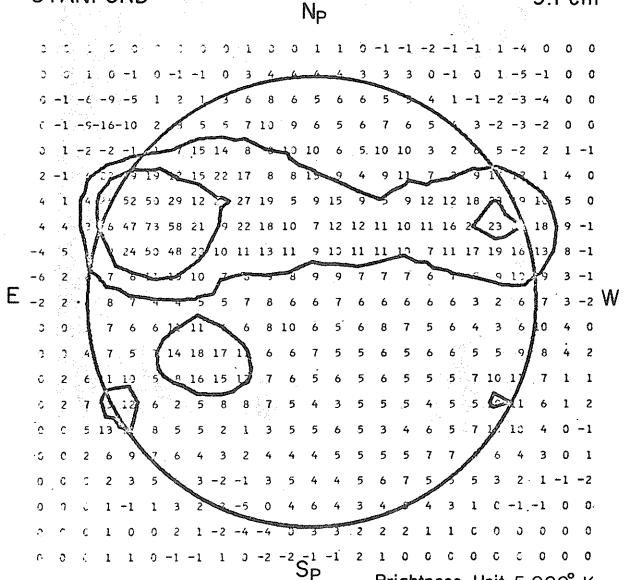
Solid-Plus
Dotted-Minus



17.78-19.30 UT

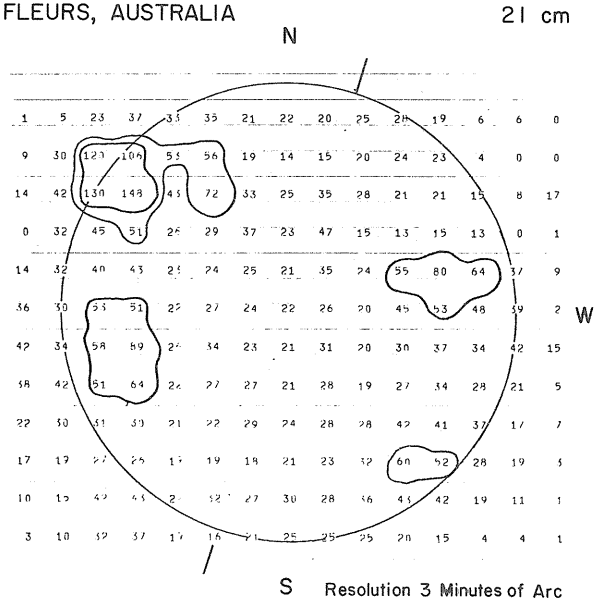
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



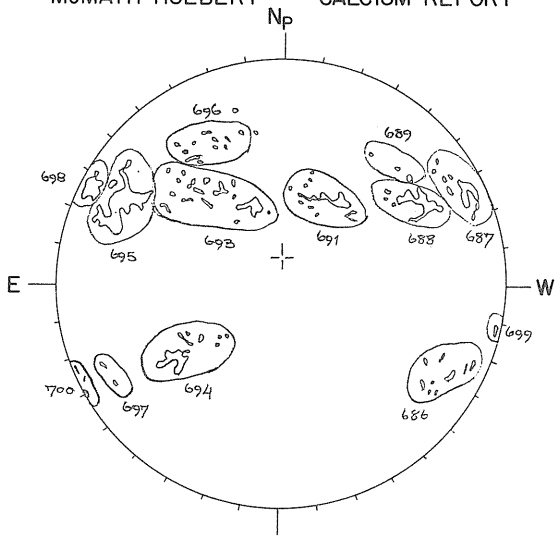
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



1340 UT

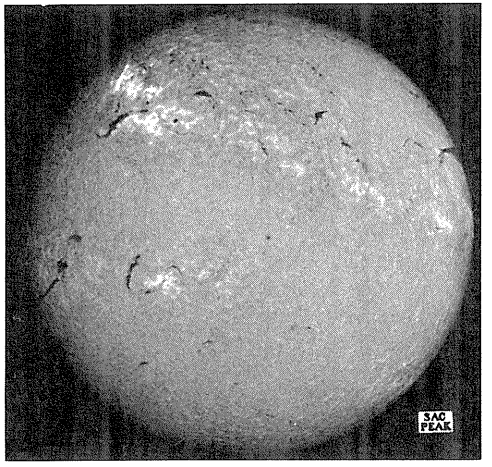
87-34-2.5
88-22-3.5
91-17-2.5
93-23-3.5
94-20-3
95-64-3.5
98-38-3.5

57
Feb 67

FEBRUARY 18, 1967 (P=-18.23, B_0=-6.94, L_0=61.01)

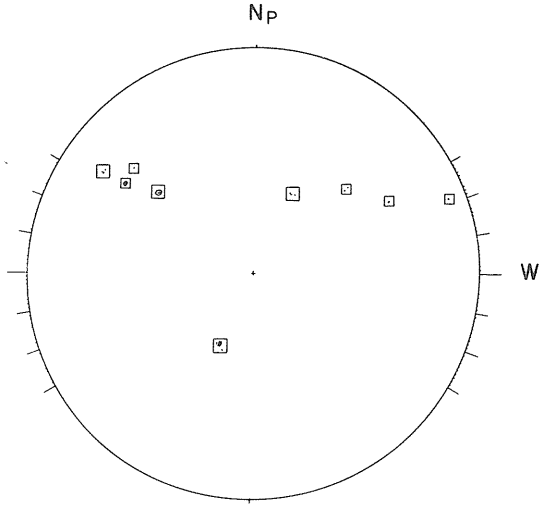
58
Feb 67

SACRAMENTO PEAK Hα



1541 UT

ESSA-BOULDER SUNSPOTS

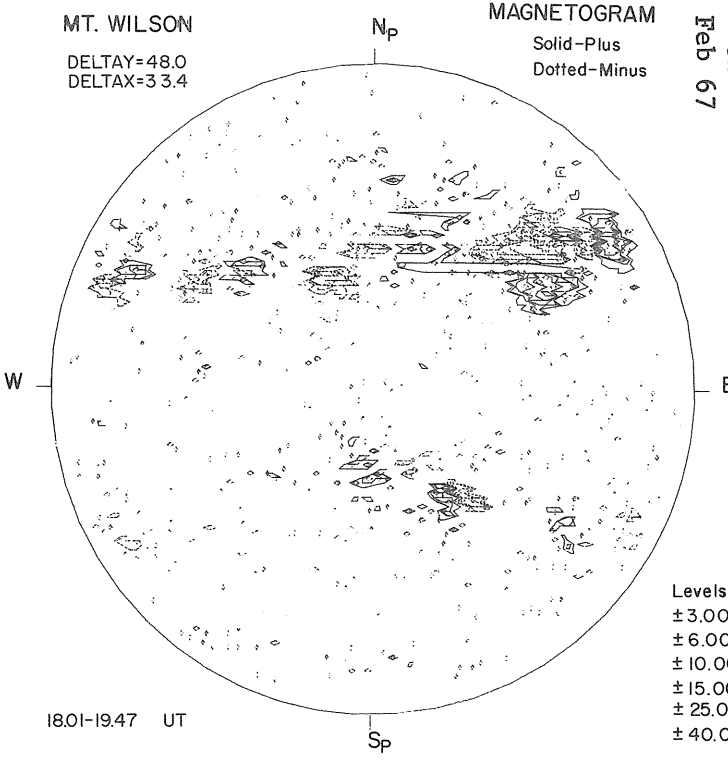


1840 UT

MT. WILSON MAGNETOGRAM

DELTAY=48.0
DELTAX=33.4

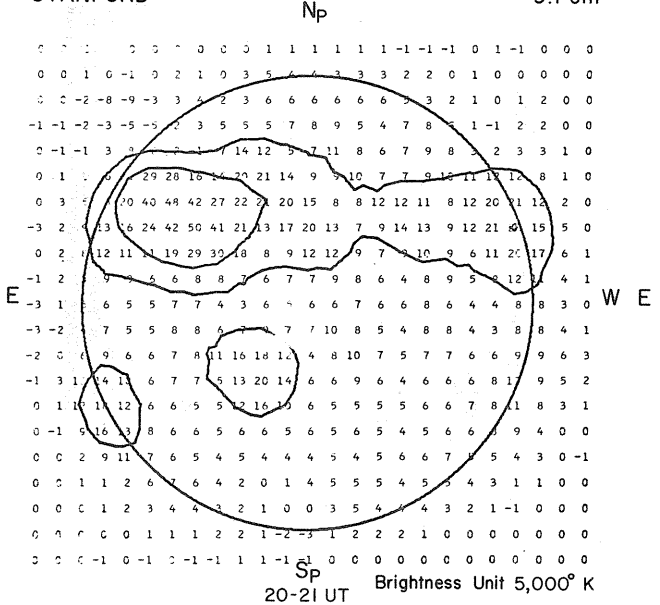
Solid-Plus
Dotted-Minus



18.01-19.47 UT

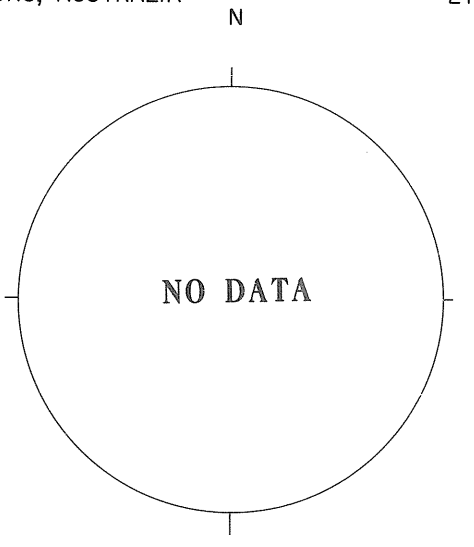
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



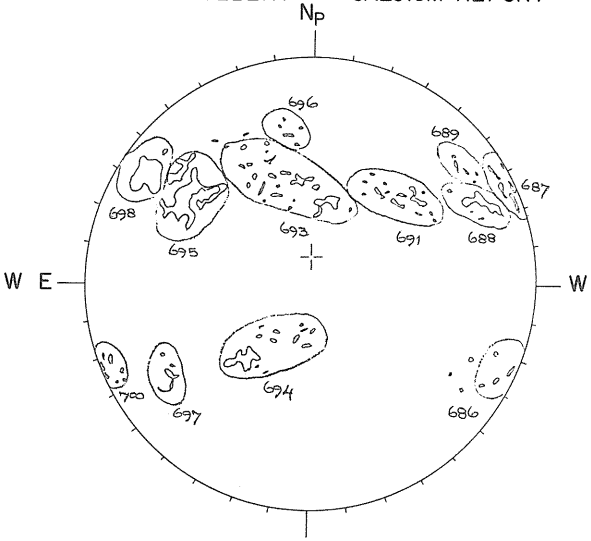
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

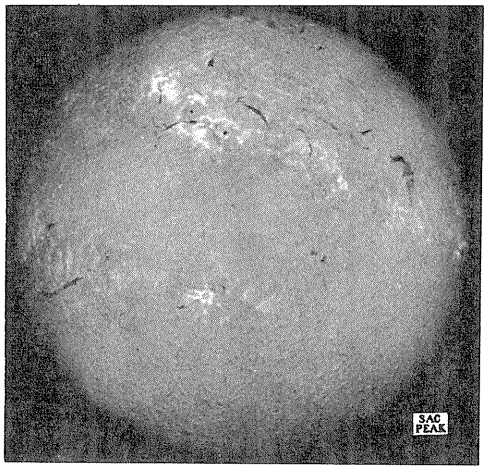


1400 UT

87-22-2.5
88-21-3
91-15-2.5
93-23-3
94-21-3
95-56-3.5
98-43-3.5

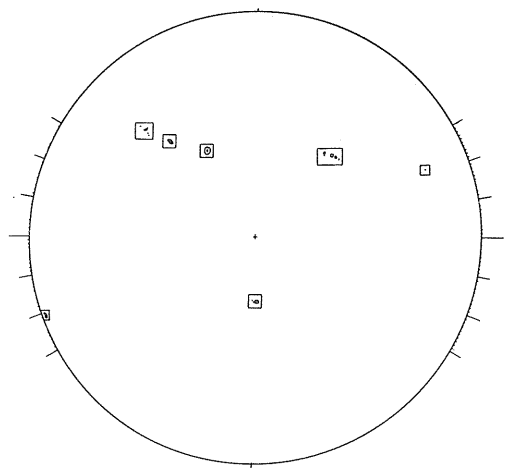
FEBRUARY 19, 1967 (P=-18.55, B_0=-6.98, L_0=47.84)

SACRAMENTO PEAK Hα



1956 UT

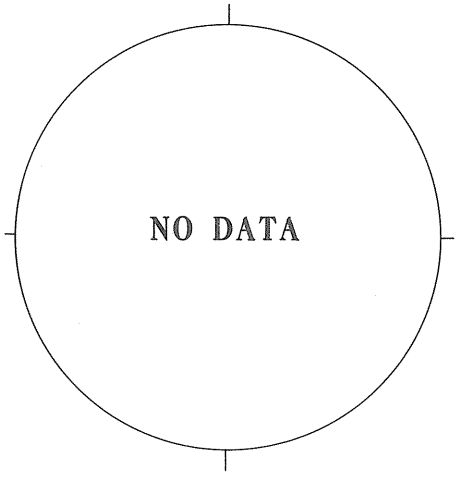
ESSA-BOULDER (SAC PEAK) SUNSPOTS



2003 UT

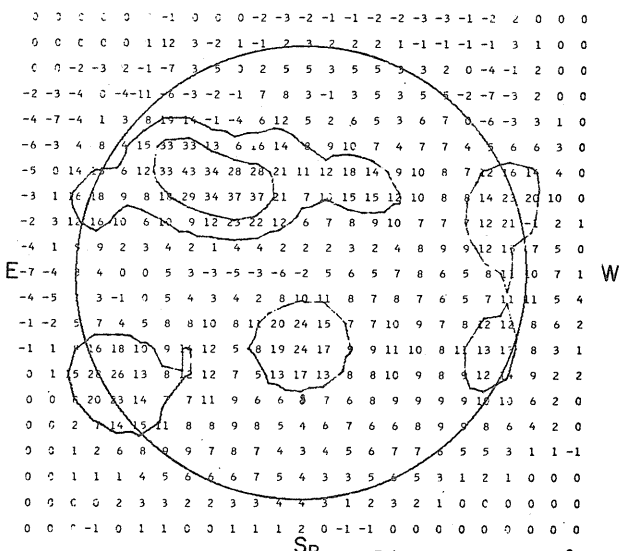
MT. WILSON NP MAGNETOGRAM

Solid-Plus
Dotted-Minus



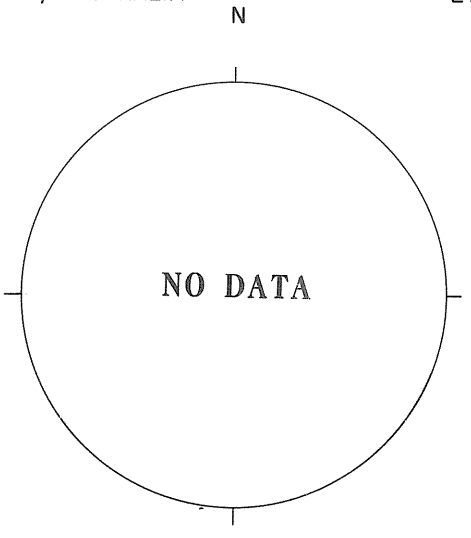
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



20-21 UT Brightness Unit 5,000° K

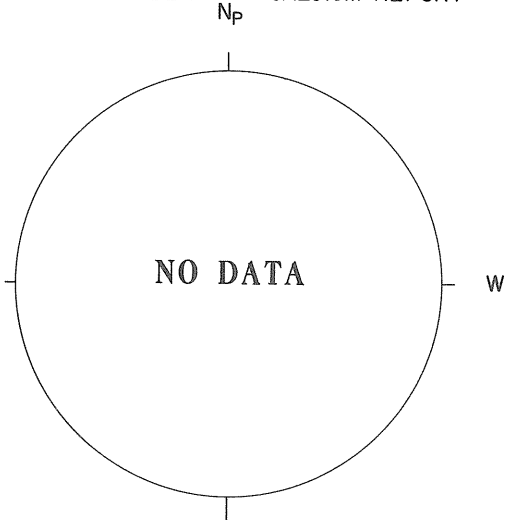
FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

SP

McMATH-HULBERT CALCIUM REPORT



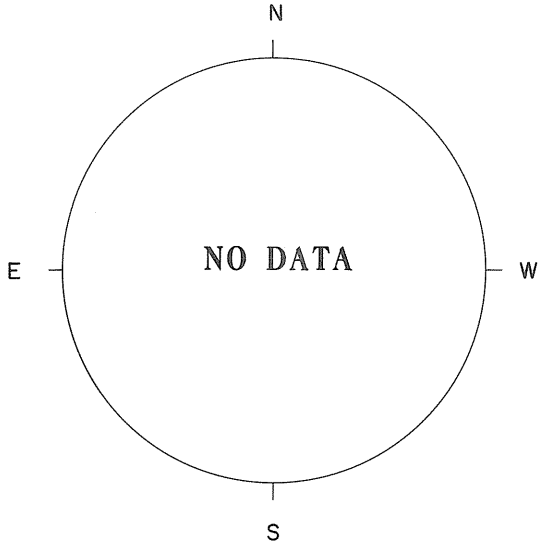
59
Feb 67

FEBRUARY 20, 1967 (P=-18.87, B_0=-7.01, L_0=34.67)

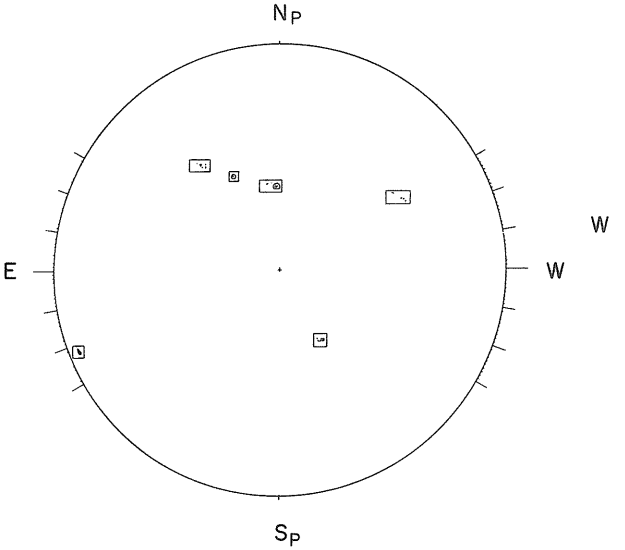
MT. WILSON N_P MAGNETOGRAM
Solid-Plus
Dotted-Minus

60
Feb 67

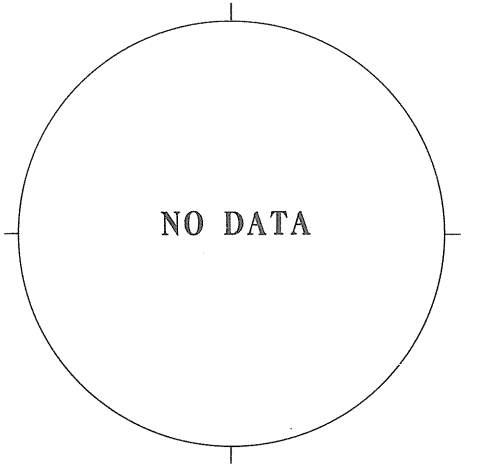
SACRAMENTO PEAK Hα



ESSA-BOULDER SUNSPOTS

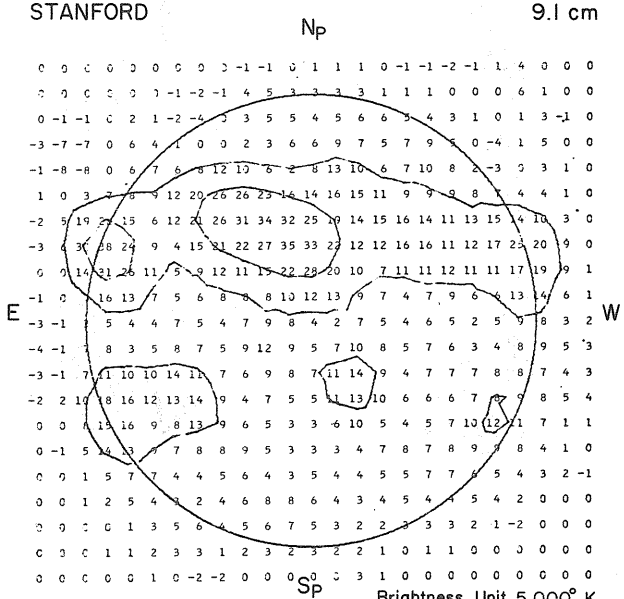


1530 UT



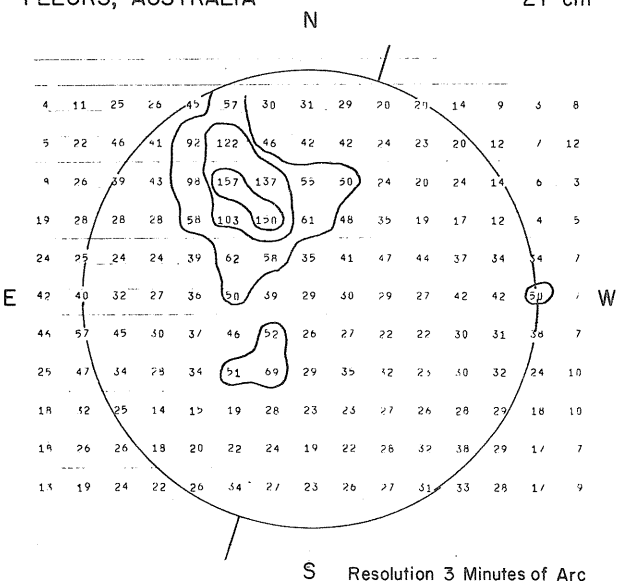
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



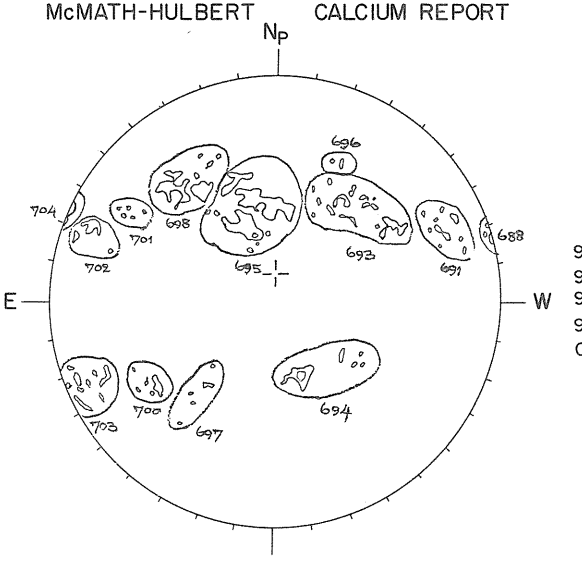
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



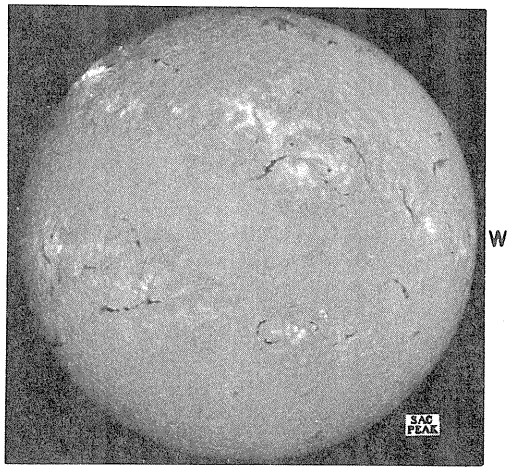
1705 UT

93-28- 3
94-15-3.5
95-58-3.5
98-36-3.5
00-08- 3

FEBRUARY 21, 1967 (P=-19.17, B_0=-7.04, L_0=21.50)

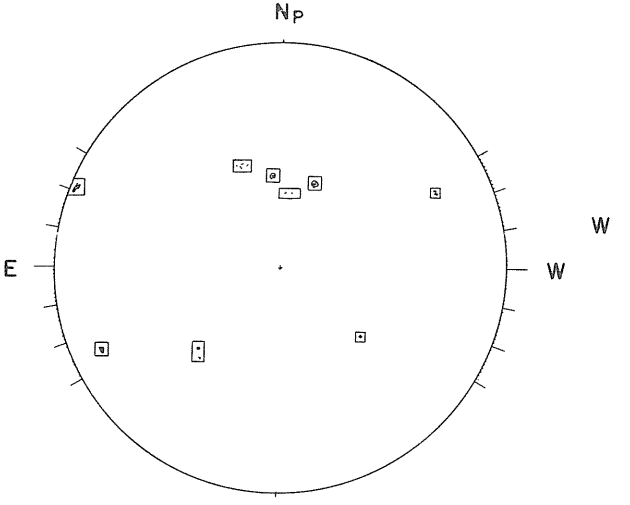
MT. WILSON N_P MAGNETOGRAM
Solid-Plus
Dotted-Minus

SACRAMENTO PEAK Hα

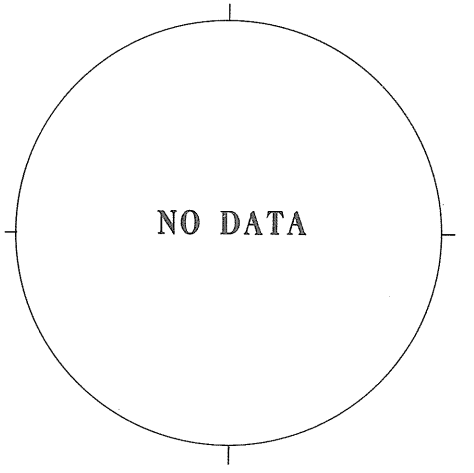


2024 UT

ESSA-BOULDER SUNSPOTS

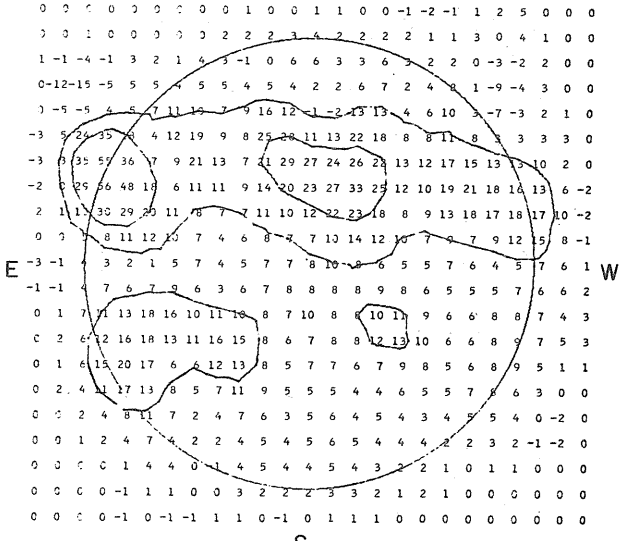


1505 UT



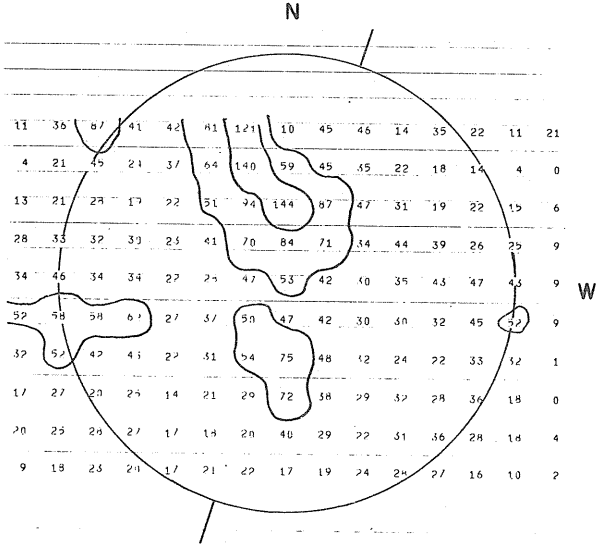
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



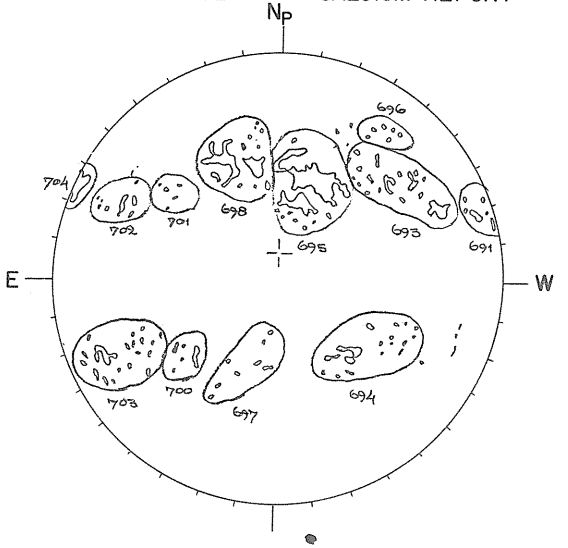
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



02-03 UT Resolution 3 Minutes of Arc Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



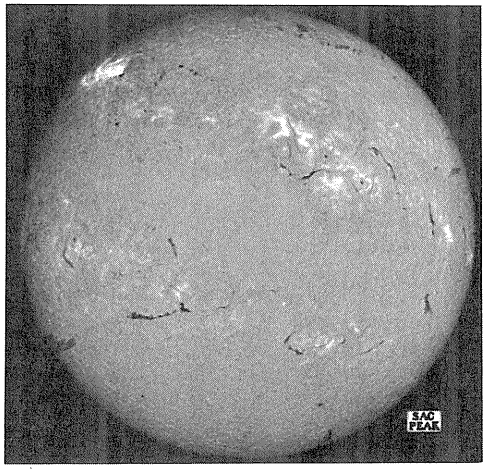
1755 UT

93-26-3
94-16-3
95-54-3
98-33-3
00-07-2.5
03-27-2.5
04-41-3.5

FEBRUARY 22, 1967 (P=-19.48, B_0=-7.07, L_0=8.33)

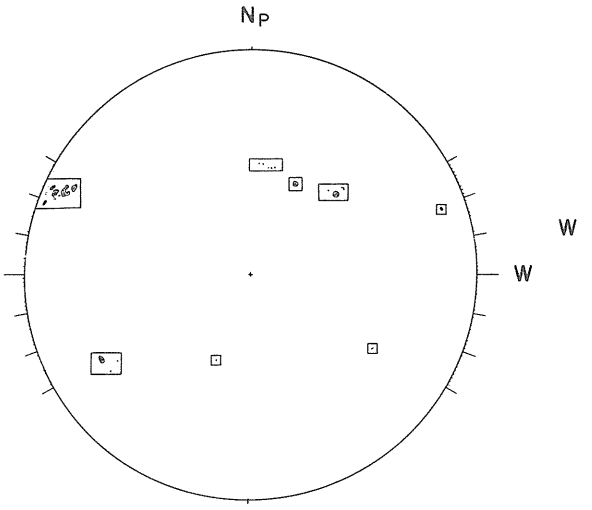
62
Feb 67

SACRAMENTO PEAK Hα



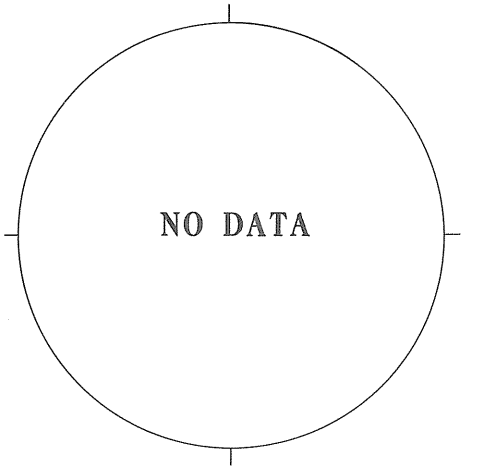
1520 UT

ESSA-BOULDER SUNSPOTS



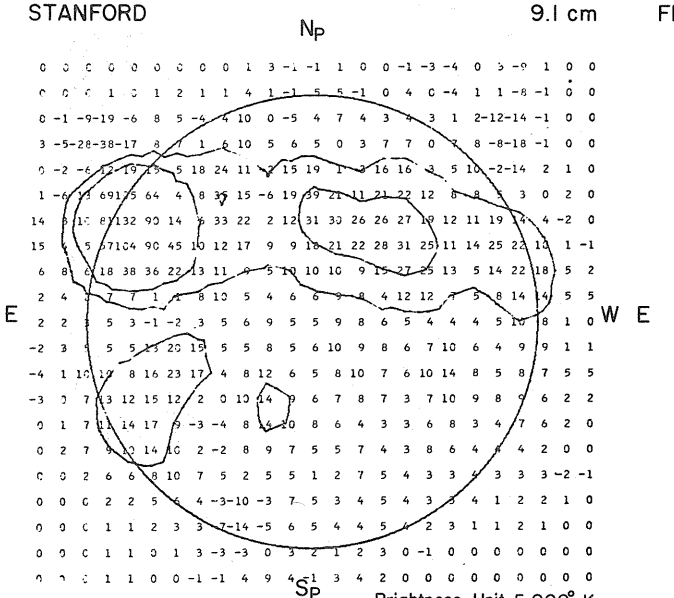
1445 UT

MT. WILSON NP MAGNETOGRAM
Solid-Plus
Dotted-Minus



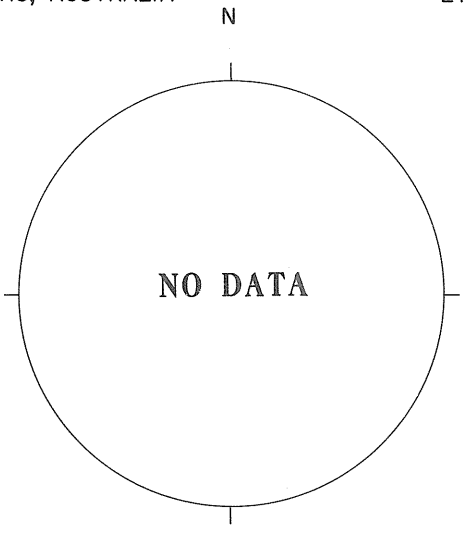
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



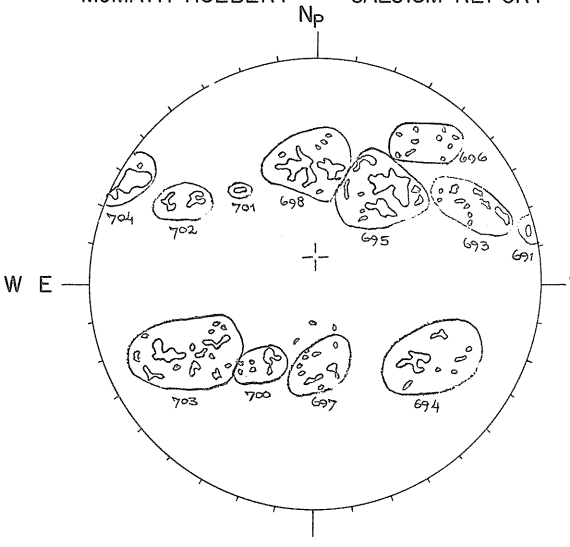
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

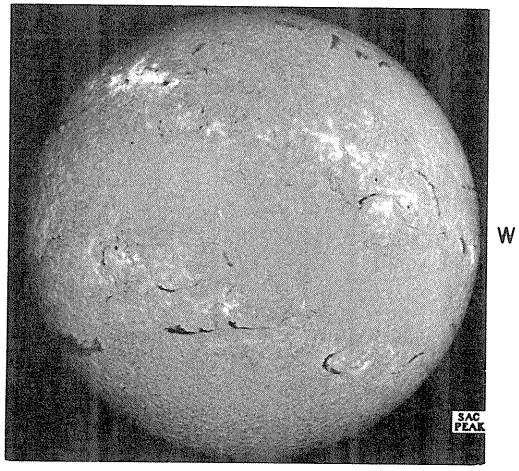


1345 UT

93-24-2.5
95-55- 3
98-34- 3
00-08-2.5
03-30-2
04-44- 4

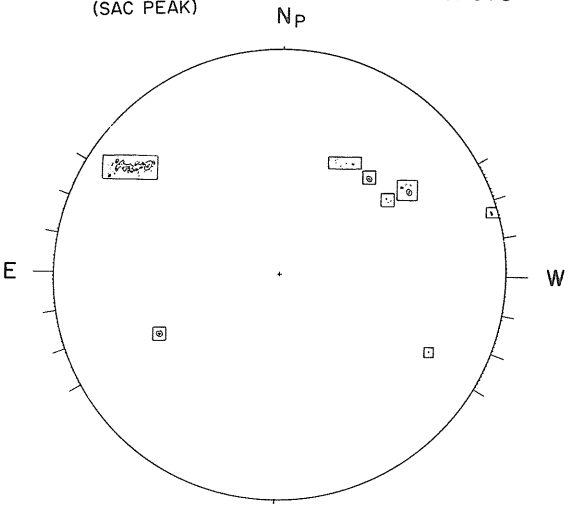
FEBRUARY 23, 1967 (P=-19.77, B_o=-7.10, L_o=355.16)

SACRAMENTO PEAK Hα



1608 UT

ESSA-BOULDER (SAC PEAK) SUNSPOTS

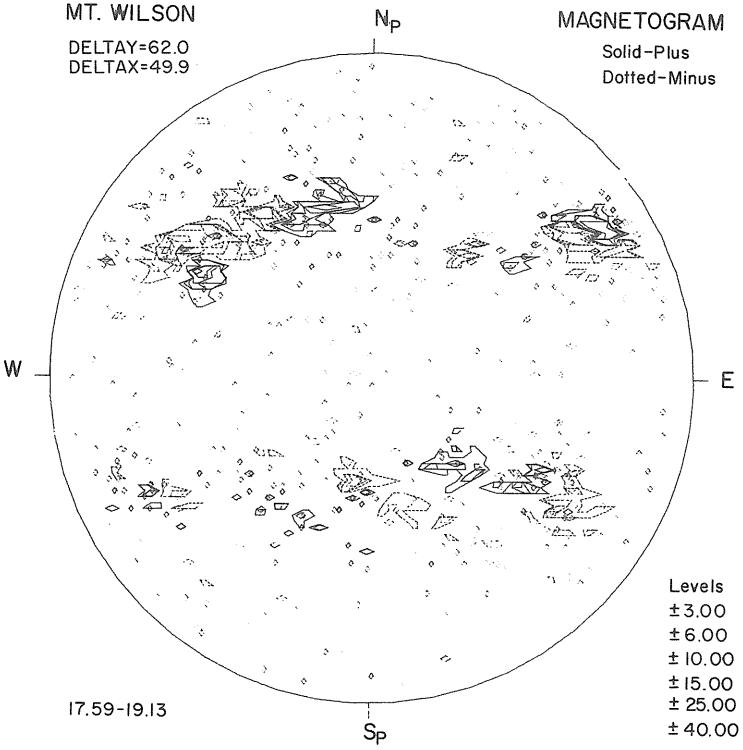


1545 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=49.9

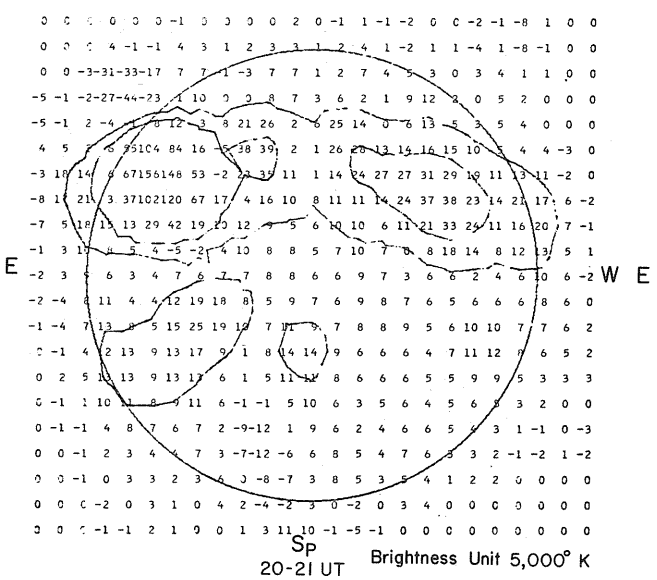
Solid-Plus
Dotted-Minus



17.59-19.13

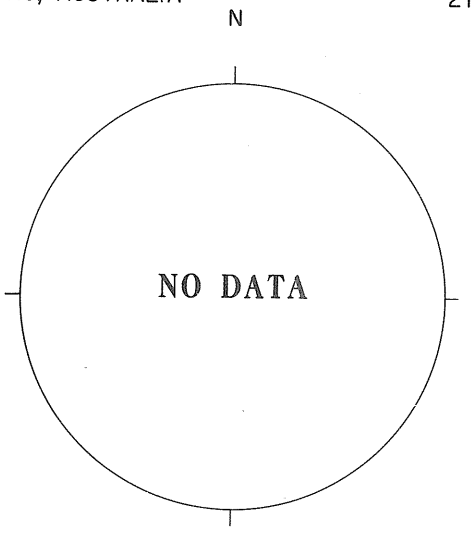
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



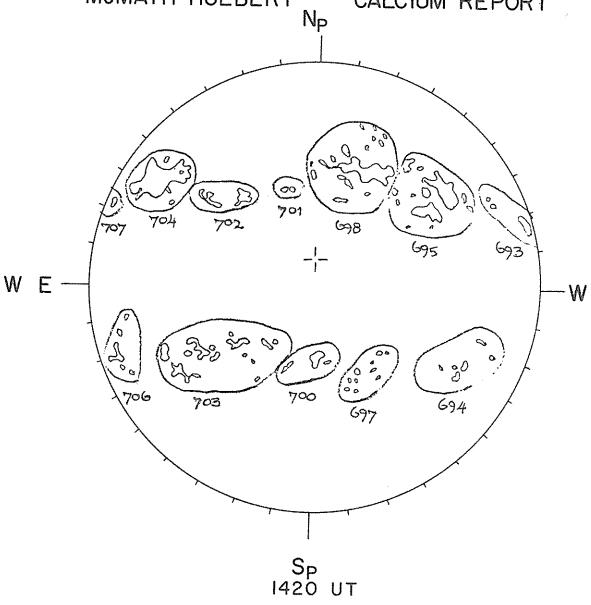
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



02-03 UT Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



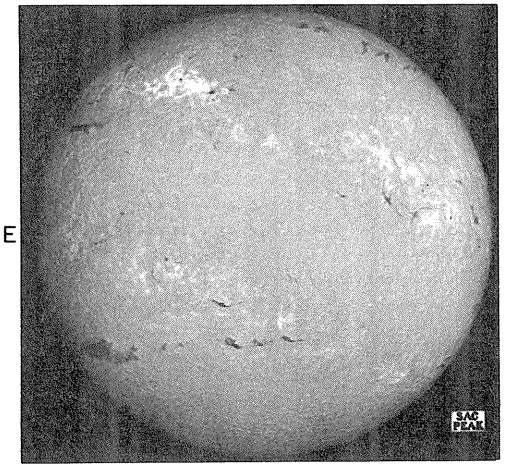
1420 UT

93-18-3
94-12-2.5
95-55-3
98-34-3
00-07-2.5
03-31-2
04-72-4

FEBRUARY 24, 1967 (P=-20.06, B =-7.13, L =341.99)

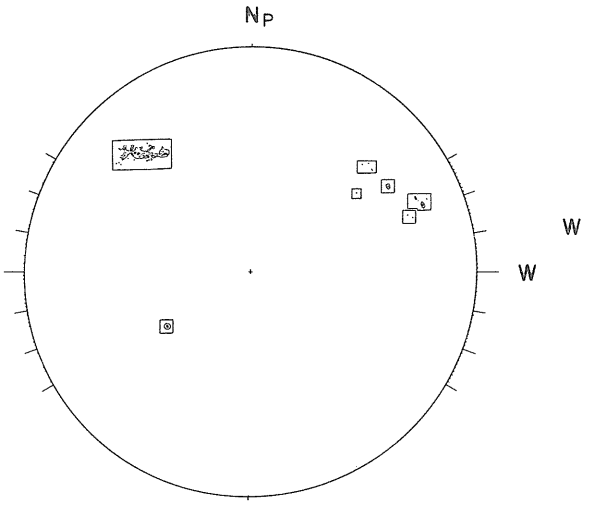
64
Feb 67

SACRAMENTO PEAK Hα



1516 UT

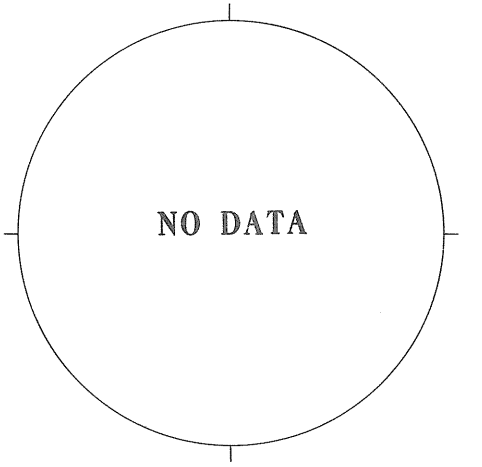
ESSA-BOULDER SUNSPOTS



1510 UT

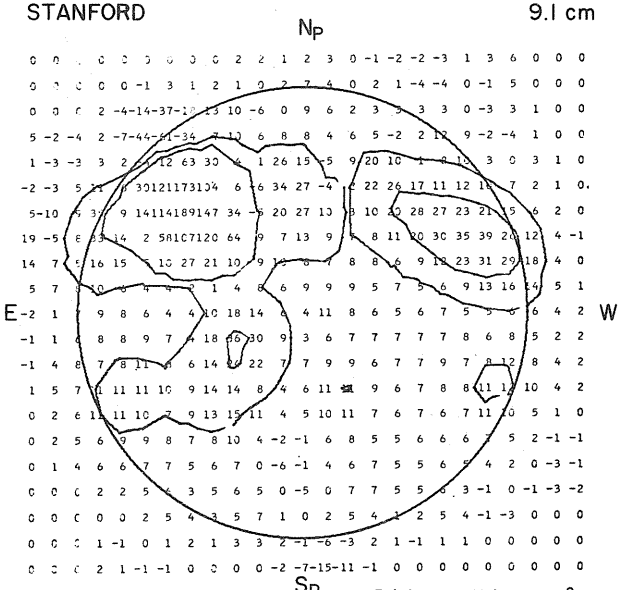
MT. WILSON NP

MAGNETOGRAM
Solid-Plus
Dotted-Minus



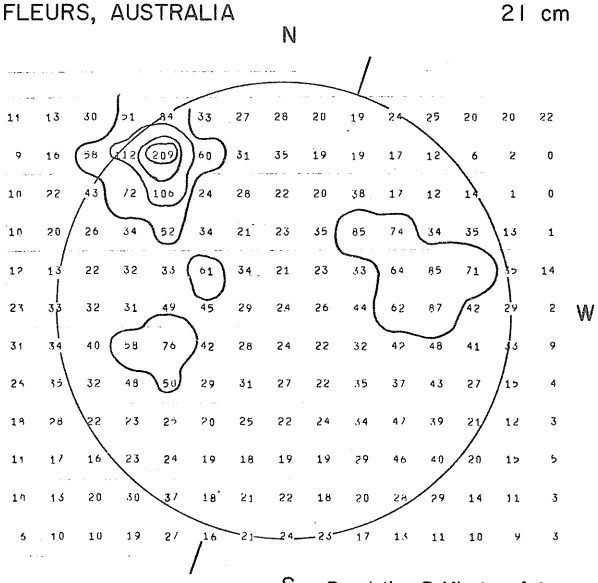
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm

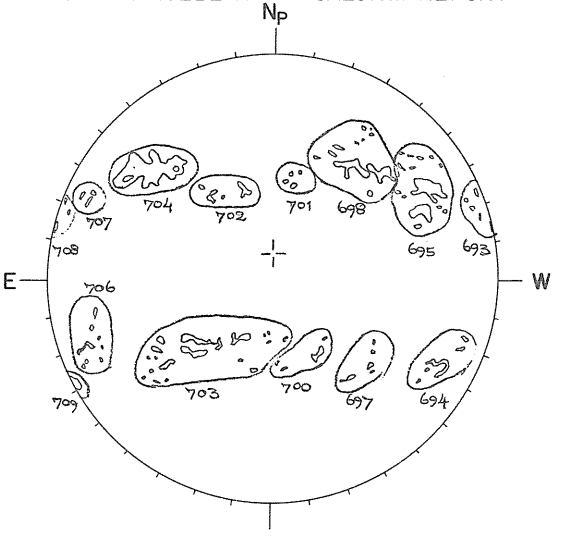


02-03 UT Brightness Unit 1,700° K

Resolution 3 Minutes of Arc

SP

McMATH-HULBERT CALCIUM REPORT



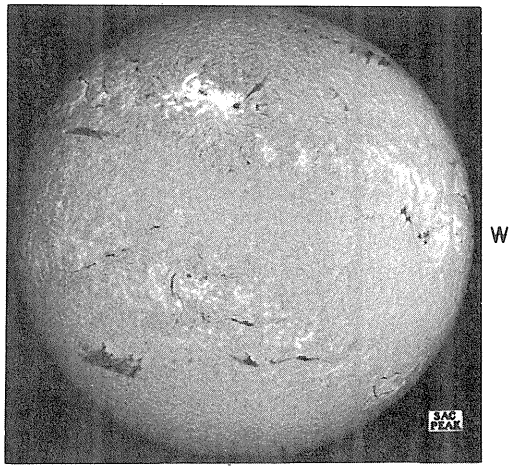
1345 UT

94-13-2.5
95-42- 3
98-29- 3
00-06- 3
02-08-2.5
03-36- 2
04-69-3.5

FEBRUARY 25, 1967 (P=-20.35, B_0=-7.15, L_0=328.82)

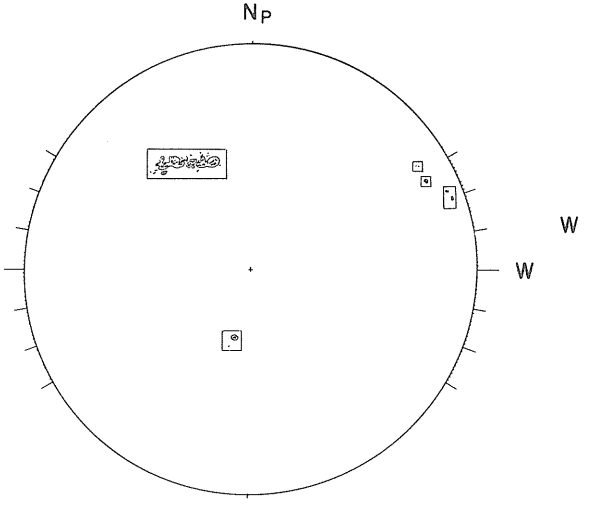
MT. WILSON N_P MAGNETOGRAM
Solid-Plus
Dotted-Minus

SACRAMENTO PEAK Hα

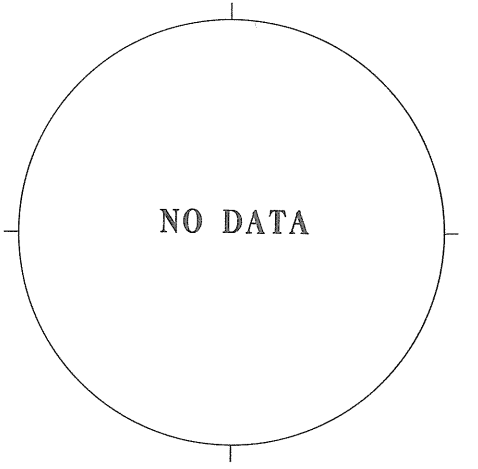


1541 UT

ESSA-BOULDER SUNSPOTS

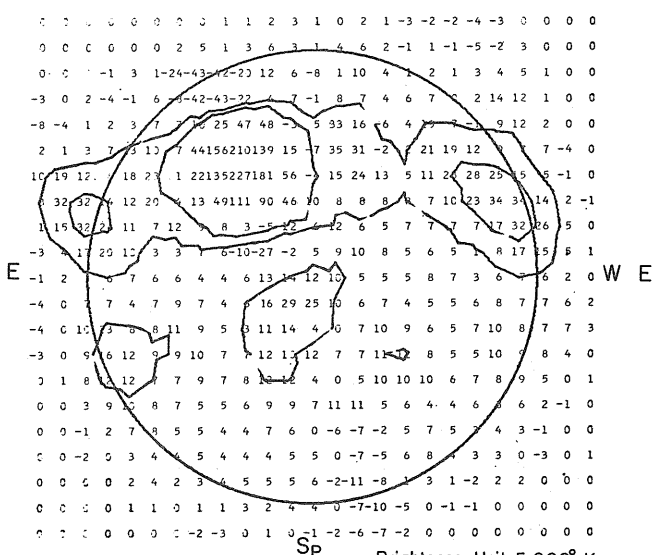


2105 UT



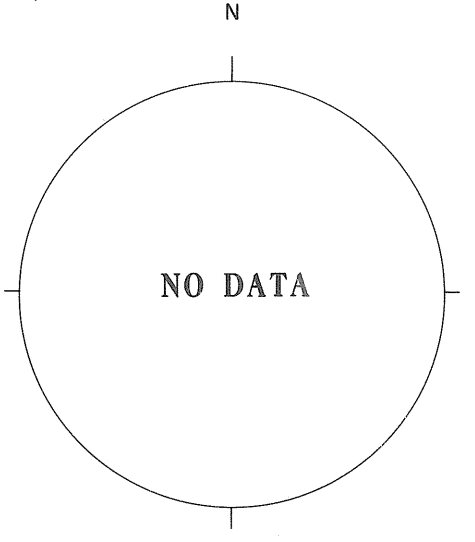
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



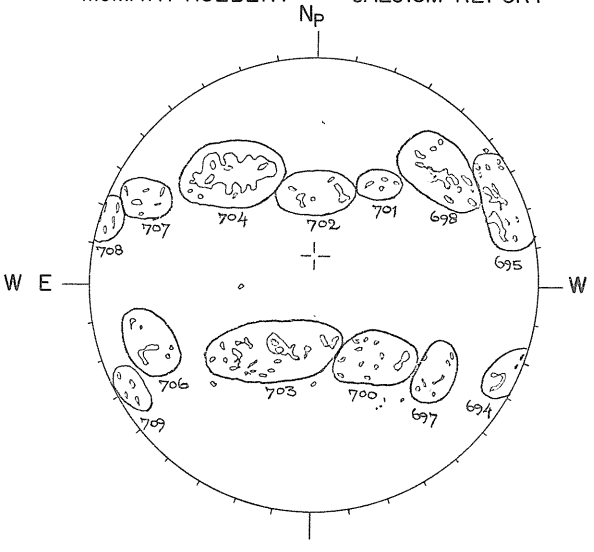
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



02-03 UT Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



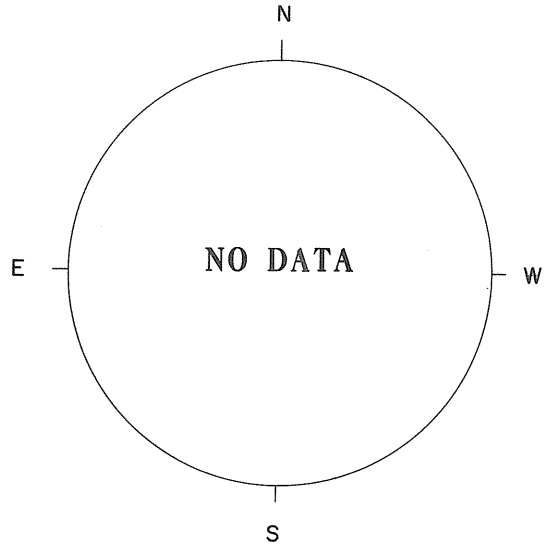
1345 UT

94-09-2.5
95-40-3
98-32-3
00-08-2.5
03 34 2.5
04-70-3.5

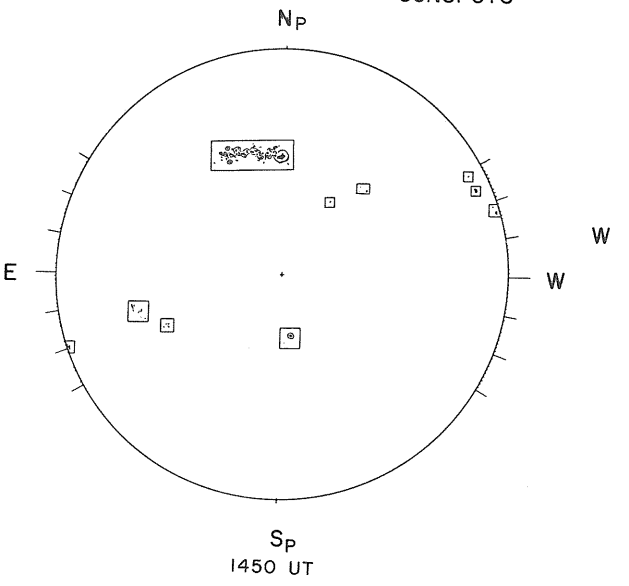
FEBRUARY 26, 1967 (P=-20.63, B_0=-7.17, L_0=315.65)

Feb 67

SACRAMENTO PEAK Hα



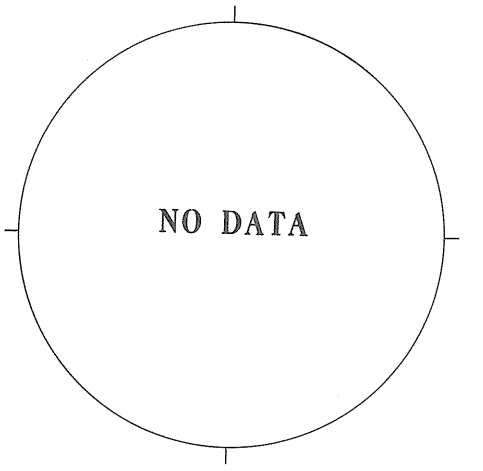
ESSA-BOULDER SUNSPOTS



1450 UT

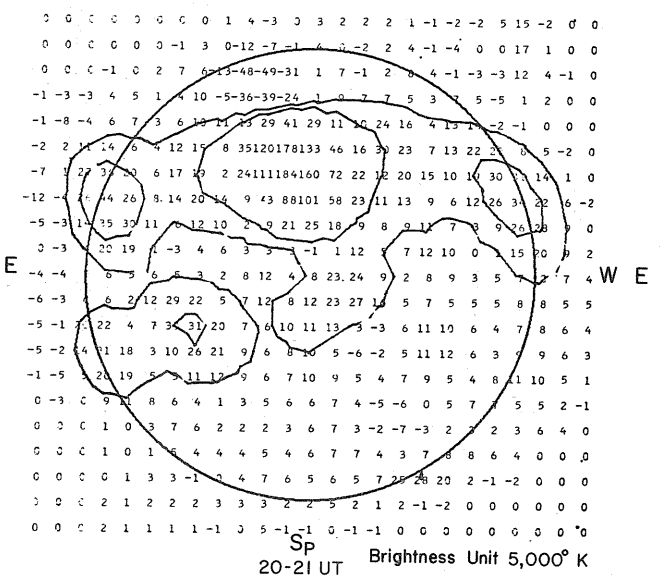
MT. WILSON NP MAGNETOGRAM

Solid-Plus
Dotted-Minus



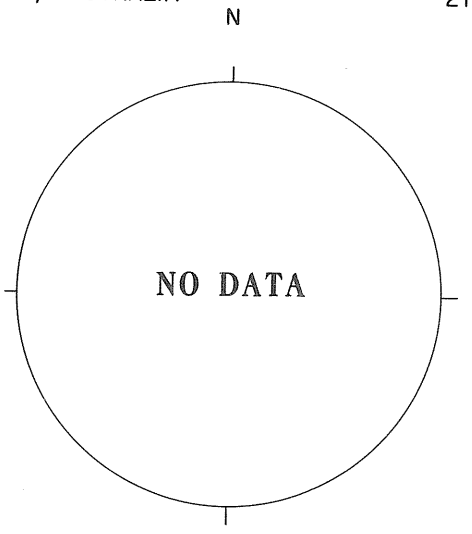
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



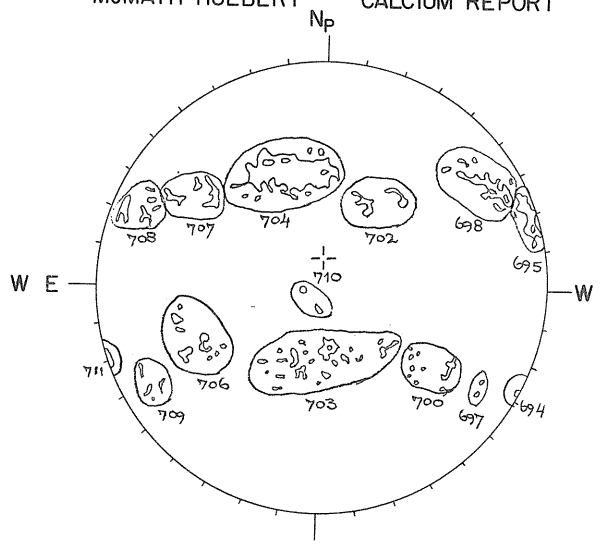
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

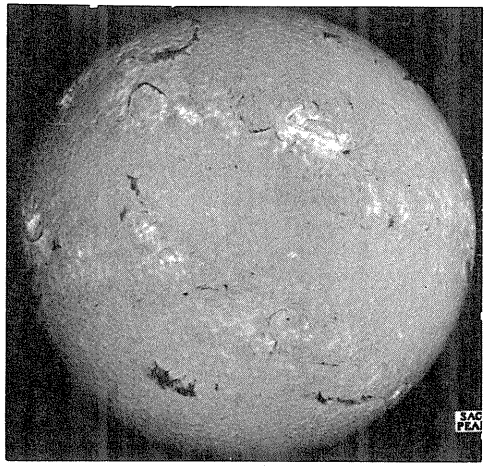


1500 UT

95-60-2.5
98-35-2.5
02-10-2.5
03-31-2
04-85-3.5
06-15-3
11-12-3

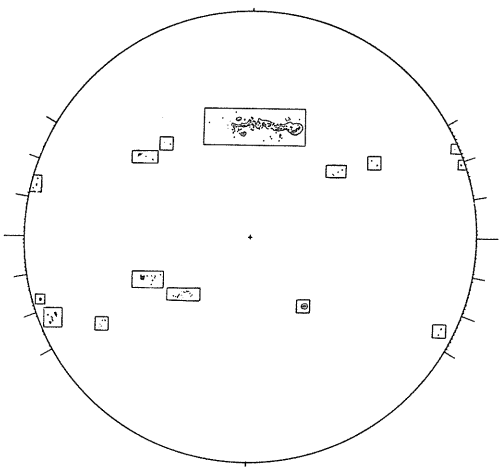
FEBRUARY 27, 1967 (P=-20.90, B_0=-7.19, L_0=302.47)

SACRAMENTO PEAK Hα



N
E W
S
2220 UT

ESSA-BOULDER SUNSPOTS

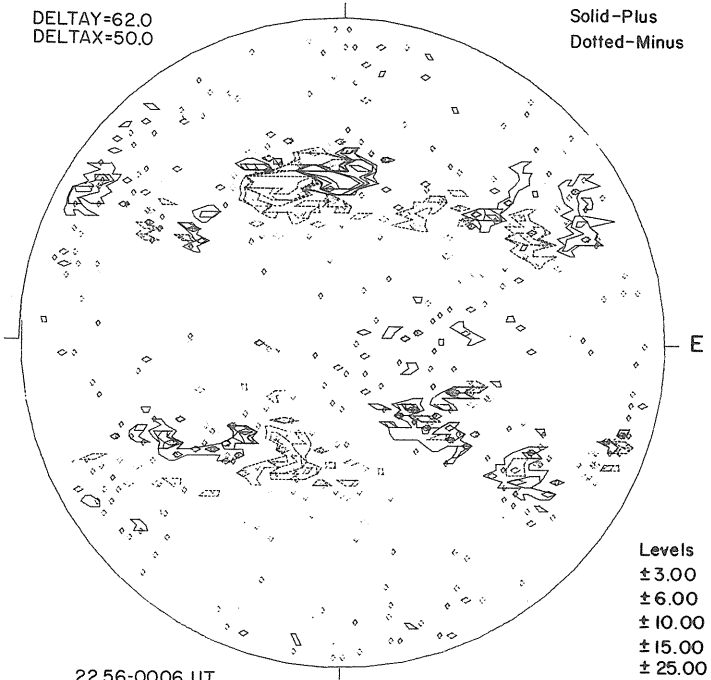


N_P
E W
S_P
1540 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

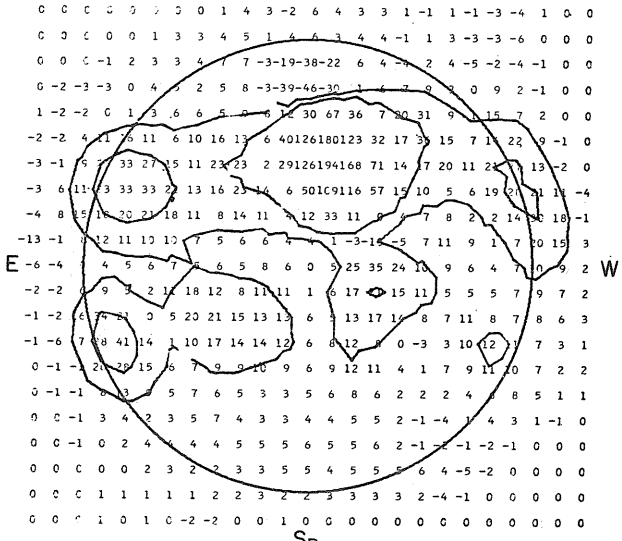
Solid-Plus
Dotted-Minus



N_P
W E
S_P
22.56-00.06 UT

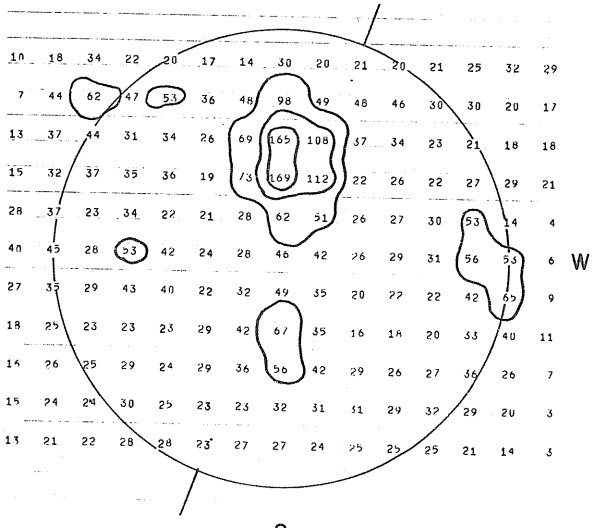
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



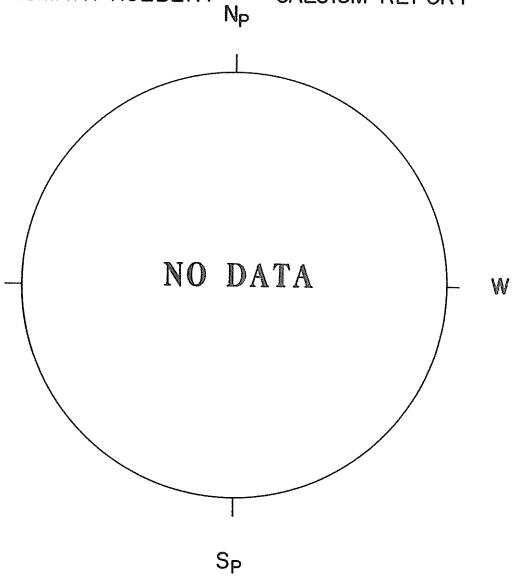
N_P
E W
S_P
20-21 UT
Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



N
W E
S
02-03 UT
Resolution 3 Minutes of Arc
Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

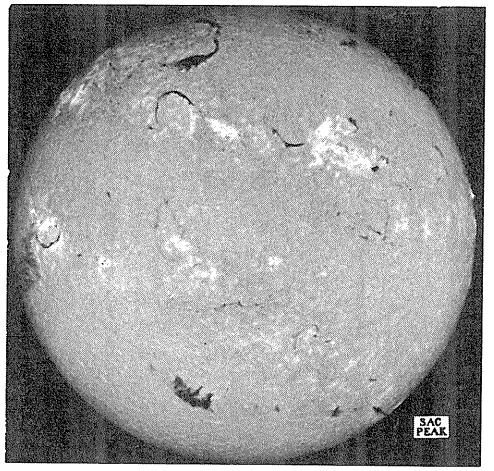


N_P
W
S_P

67
Feb 67

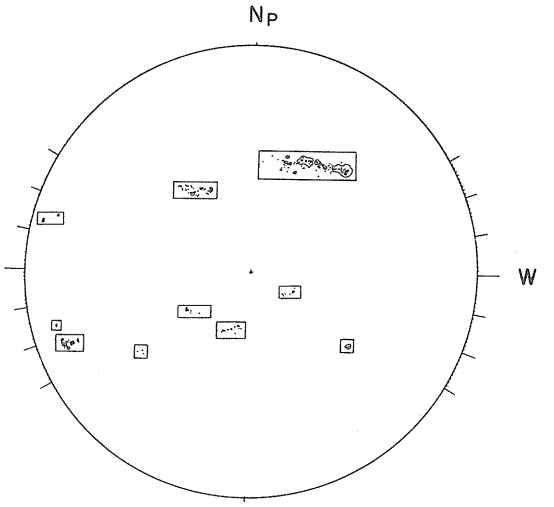
FEBRUARY 28, 1967 (P=-21.16, B_0=-7.20, L_0=289.30)

SACRAMENTO PEAK Hα



1608 UT

ESSA-BOULDER SUNSPOTS



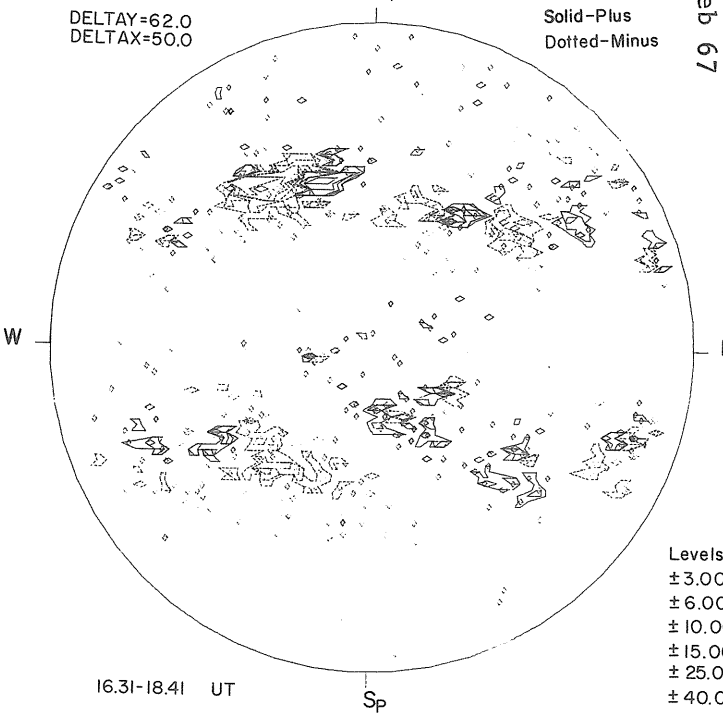
1545 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

Solid-Plus
Dotted-Minus

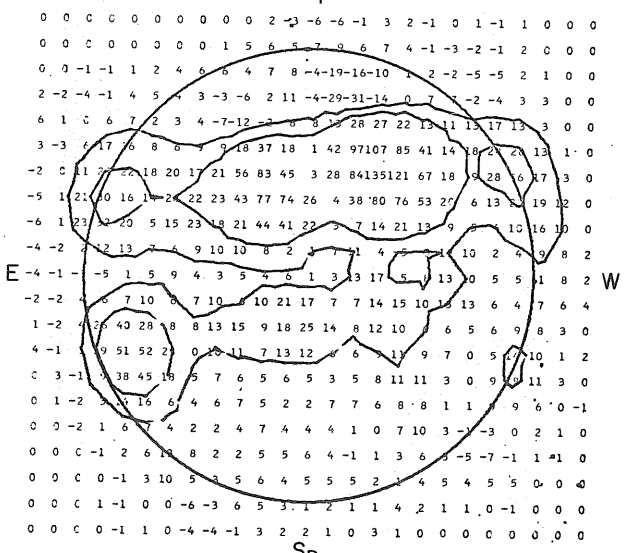
Feb 67 68



16.31-18.41 UT

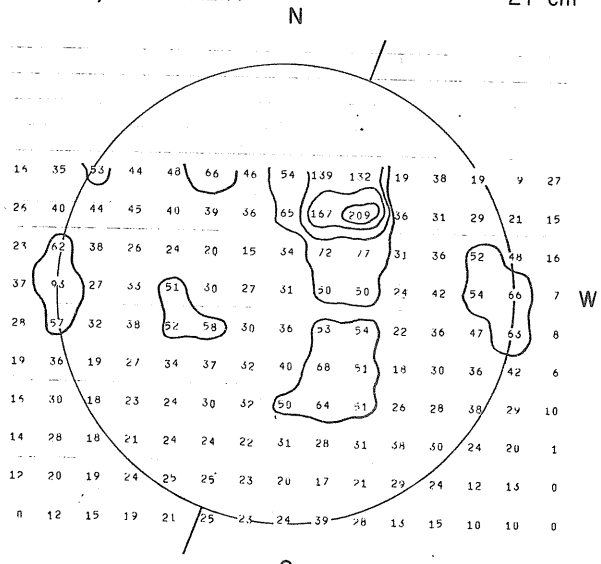
Levels
±3.00
±6.00
±10.00
±15.00
±25.00
±40.00

STANFORD 9.1 cm



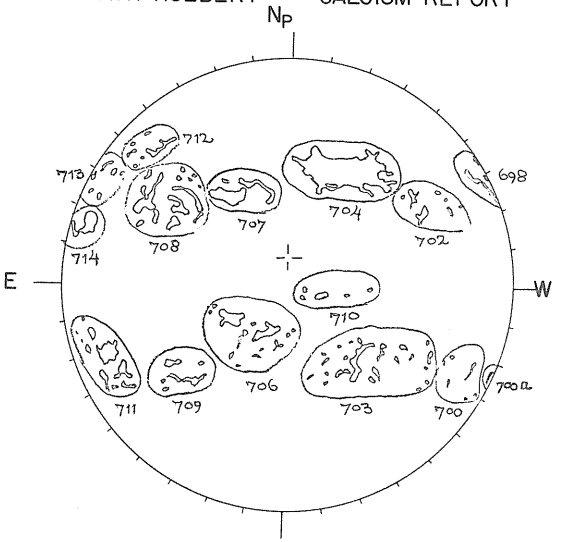
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm



Resolution 3 Minutes of Arc
02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT



98-18-3.5
02-12-3
03 28 2.5
04-83-3.5
06-24-3
07-23-3.5
08-37-2.5
09-13-2.5
10-05-3
11-38-3
14 23 2.5
00a-05-3.5

1450 UT

FINAL CORONAL LINE EMISSION INDICES

FEBRUARY 1967

CMP February 1967	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	126	194	x	x	101	124	x	x	80	113	4	12	87	108	17	50
2	x	x	x	x	x	x	x	x	73	118	9	28	80	134	12	31
3	125	209	x	x	94	124	x	x	x	x	x	x	x	x	x	x
4	x	x	x	x	x	x	x	x	59	95	11	21	76	101	24	50
5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	129	199	36	88	83	110	20	28	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	112	137	x	x	38	45	x	x	x	x	x	x	x	x	x	x
9	70	91	13	23	29	39	14	38	x	x	x	x	x	x	x	x
10	40	49	18	42	31	38	17	34	36	49	10	31	65	109	28	55
11	63	94	20	40	39	51	29	35	41	59	8	13	76	105	49	102
12	71	119	x	x	54	76	x	x	40	72	27	39	50	84	57	79
13	x	x	x	x	x	x	x	x	58	104	11	14	107	244	23	43
14	x	x	x	x	x	x	x	x	54	67	9	15	72	115	27	44
15	61	101	35	58	34	47	6	11	38	57	13	21	86	148	34	48
16	62	83	33	62	23	31	11	19	26	30	14	16	67	115	37	57
17	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
18	95	138	23	39	43	60	10	22	30	40	0	0	56	80	28	52
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	53	89	x	x	137	166	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	36	56	11	16	72	133	14	23
23	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
24	50	72	43	64	58	79	25	37	x	x	x	x	x	x	x	x
25	56	80	56	99	83	106	37	58	x	x	x	x	x	x	x	x
26	37	54	49	81	44	72	31	84	x	x	x	x	x	x	x	x
27	72	110	40	78	109	166	22	42	x	x	x	x	x	x	x	x
28	79	133	20	43	93	147	7	10	138	150	x	x	165	221	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

FEBRUARY 1967

FEB 1967	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	STATIONS	KNOWN FLARE
01	0809	0835	0813	1					79			MA(NPG18-79)	0750
01	1220	1530	1256	1					92			UM(NSS21-92)	1332E
01	1228	1407		1			1-					JU	
01	1230	1320	1258	5	SL 1+							HU BA BY JU SO	
01	2300	0140	2330	5					65			HA(WWVL20-65)	
												MA(NPG18-55)	
01	2308	2325	2316	5	G 1							BE MA TO	
02	0144	0221	0146	4	S 1							MA TO	*
02	0145	0147	0146	1							09	HA(WWVH5-0.9,	
												WWVH10-0.5)	
02	0145	0225	0155	5					99			MA(NPG18-112)	
												HA(WWVL20-7)	
02	0148	0203	0152	1		20	1-					MA	
03	0302	0325	0309	1		9	1-					MA	0305E
03	0302	0404	0314	1					68			MA(NPG18-68)	
03	0303	0405	0307	5	S 2							MA GH OK	
04	1640	1745	1702	5						2		UM A1	
04	1643	1655	1654	1							06	BO(WWI8-0.6)	
04	1647			5					99			BO(WWVL20-400)	
												UM(NSS21-100,NBA24-78)	
04	1647	1729	1706	5	SL 1							BE BA GS MC TR	
04	1647	1840	1656	1				2				A6	
04	1652	1728	1707	3		18	1					BO MC	
05	0014	0029	0024	1	G 1-							MA	
05	0016	0110	0030	5					75			MA(NPG18-75)	
												HA(WWVL20-40)	
06	1840			5					99			BO(WWVL20-180)	1825
												HA(WWVL20-22)	
06	1842	1907	1855	5	SL 1-							HU BE MC TR	
06	1847	1855	1849	1							02	BO(WWI11-0.2)	
06	1848	2000	1859	3				2				A6 A1	
07	0128	0210	0135	5					99			MA(NPG18-127)	0130E
												HA(WWVL20-15)	
07	0130	0204	0135	5	S 1							MA OK TO	
07	0133	0149	0135	1		25	1-					MA	
07	1028	1113		3				2				KU PU	1025
07	1030	1115		3					*			KU PU	
07	1032	1117		3	S 2+							PU KU	
07	1557			1					99			BO(WWVL20-140)	1557
07	1801	1809	1804	1							03	BO(WWI11-0.3)	1801
07	1805			1					56			BO(WWVL20-56)	
07	1857			1					85			BO(WWVL20-85)	1838
07	1857	2010	2000	3				1-				A1 A6	1941
07	1946			5					55			BO(WWVL20-55)	
												HA(WWVL20-18)	
07	2056			5					85			BO(WWVL20-85)	2052
												HA(WWVL20-29)	
07	2233			5					70			BO(WWVL20-70)	2232
												HA(WWVL20-15)	
08	0438	0455	0441	4	S 1-							MA OK	0440
08	0438	0527	0503	1					40			MA(NPG18-40)	
08	1814			5					70			BO(WWVL20-70)	1812
												HA(WWVL20-15)	
08	1818	1845U	1822	1	SL 1-							TR	
12	1616	1622	1617	1							02	BO(WWI11-0.2)	1615
13	1755	1835	1802	1							10	BO(WWI8-1.0)	1746
13	1800			5					99			BO(WWVL20-280)	
												HA(WWVL20-47)	
												UM(WWVL20-86)	
13	1804	1910	1825	5	G 1+							MC AN BA BE BO GS WS	
15	1726	1729	1727	1							02	BO(WWI11-0.2)	
15	2310	2323	2315	5					18			MA(NPG18-18)	2303
												HA(WWVL20-15)	
16	1112	1230	1135	1					70			MA(NPG18-70)	
16	2204	2210	2205	1							02	BO(WWI11-0.2)	2204
17	1936	1955	1947	1	SL 1-							BO	1934
17	1938			5					75			BO(WWVL20-75)	
												HA(WWVL20-11)	
												MA(NPG18-14)	
17	1938	1945	1940	1							04	BO(WWI11-0.4)	
17	2216			5					52			BO(WWVL20-52)	2204
												HA(WWVL20-15)	
20	2212	2230	2216	1				1+				A6	2159

SUDDEN IONOSPHERIC DISTURBANCES

FEBRUARY 1967

FEB ↑1967	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	STATIONS	KNOWN FLARE
20	2219			5					99			BO(WWVL20-280) HA(WWVL20-14)	
21	1605	1623	1612	1	SL 2+							TR	1609E
21	1606			5					99			BO(WWVL20-280) UM(WWVL20-61)	
21	1607	1618	1609	1									
21	1610	1655	1614	1				1			03	BO(WWI11-0.3) A6	
21	1621	1635	1626	1	S 1							UM	1609E
21	1634			1					52			BO(WWVL20-52)	
21	1634	1637	1635	1							02	BO(WWI11-0.2)	
21	1951			5					70			BO(WWVL20-70) HA(WWVL20-40)	1947
21	2003			1					99			BO(WWVL20-420)	2010E
21	2003	2008	2007	1							03	BO(WWVH5-0.3)	
21	2005	2014	2009	1	S 1-							WS	
21	2047			5					70			BO(WWVL20-70) HA(WWVL20-18)	2030
21	2102			1					99			BO(WWVL20-420)	
22	0120	0152	0128	5					58			MA(NPG18-58) AN(NPM26-43) HA(WWVL20-14)	0123
22	0121	0125	0123	1									
22	0121	0203	0130	5	S 1						04	HA(WWVH5-0.4)	
22	0125	0136	0132	1		17	1-					MA CA OK TO MA	
22	0349	0443	0357	1					93			MA(NPM26-93,NPG18-50)	0406E
22	0357	0425	0359	5	S 1							MA ND OK TO	
22	0501	0557	0514	1					63			MA(NPG18-63)	0501
22	0503	0526	0511	5	S 1							MA CA OK TO	
22	0622	0641	0624	5	S 1							MA OK TO	0622
22	0622	0722	0627	1					42			MA(NPG18-42)	
22	1147	1230	1207	1					26			UM(NSS21-26)	
22	1155	1223	1203	1				2+				LO	
22	1159	1216		1	S 2							PU	
22	1325		1332	1					62			UM(NSS21-62,WWVL20-58)	1325E
22	1325	1336	1331	1	SL 1-							TR	
22	1325	1345	1330	1				2				LO	
22	1442	1530	1510	3	G 1-							MC BE	1440
22	1457		1510	1					29			UM(WWVL20-29,NSS21-21)	
22	1525	1529	1526	1							02	BO(WWI11-0.2)	
22	1528			1					15			BO(WWVL20-15)	
22	1617			5					95			BO(WWVL20-95) UM(NSS21-31,WWVL20-29)	1606
22	1716			1					52			BO(WWVL20-52)	1657
22	1800	2210	1830	1					54			HA(WWVL20-54)	1657
22	1809	1936	1850	3		52	2					BO MC	
22	1812	1842D	1834	1	SL 1+							MC	
22	1842	1928D	1852	3	S 2+							MC BE BO	1819
22	1843	1930	1852	5					54			UM(NSS21-54,WWVL20-43) HA(WWVL20-43)	
22	1846	1853	1847	1							28	BO(WWI11-2.8)	
22	1928	2000	1935	3	G 1							MC BO	1925
22	1932	2012	1940	1					7			HA(WWVL20-7)	
22	2211			5					99			BO(WWVL20-110) MA(NPG18-25)	2205
22	2211	2218	2214	1							02	BO(WWI11-0.2)	
22	2215	2225		1	SL 1							PU	
23	0054	0247	0114	5					96			MA(NPG18-96) HA(WWVL20-18)	0053
23	0055	0134	0114	5	G 1+							MA CA GH TO	
23	0106	0128	0115	1		27	1					MA	
23	0109	0110	0109	1							10	HA(WWVH10-1.0)	
23	0547	0637	0557	1					45			MA(NPG18-45)	0625E
23	0550	0622	0552	5	S 1							MA ND OK	
23	0550	0622	0605	1		17	1-					MA	
23	0553	0630	0558	1				1				A1	
23	0830	0842		5	S 1							DA ND	0831E
23	0830	0900	0839	1					18			MA(NPG18-18)	
23	0831	0849	0838	1		13	1-					MA	
23	0831	0905	0836	1				2				A1	
23	1554	1556	1555	1							02	BO(WWI9-0.2)	
23	1612	1621	1613	1							14	BO(WWI11-1.4)	1608
23	1613			1					70			BO(WWVL20-70)	
23	1615	1629D	1618	5	S 1							WS BA BE TR	
23	1629	1645D	1630	1	S 1-							WS	1624
23	1700	1713	1704	1							02	BO(WWI11-0.2)	1624
23	1728	1734	1729	1							04	BO(WWI11-0.4)	1728
23	1730			1					99			BO(WWVL20-250)	
23	1806	2100U	1856	1					65			AN(NPM26-65,NSS21-56, WWVL20-22)	
23	1945	2120	1947	1					36			HA(WWVL20-36)	1941E
23	2047	2056	2050	1							02	BO(WWI11-0.2)	
23	2245			5					99			BO(WWVL20-100) HA(WWVL20-18) MA(NPG18-32)	2246

SUDDEN IONOSPHERIC DISTURBANCES

FEBRUARY 1967

FEB 1967	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	STATIONS	KNOWN FLARE
24	0608	0628	0618	1					24			MA(NPG18-24)	0607E
24	0608	0730	0614	5	G 1+							MA HK ND OK	
24	1515		1527	1					36			UM(WWVL20-36,NSS21-31)	1516E
24	1518	1530	1523	1	SL 1-							TR	
24	1720	1800	1722	1					11			HA(WWVL20-11)	
24	1743	1747	1744	1							03	BO(WWI11-0.3)	
24	1900	1925	1911	5	SL 1+							MC BE BO HU TR	1900
24	1901	1921	1902	5							07	BO(WWI9-0.7)	
												HA(WWVH5-0.4)	
24	1902			5					99			BO(WWVL20-350)	
												HA(WWVL20-50)	
												UM(NSS21-54)	
24	1902	2000	1910	3				1				A6 A1	
24	1904	1925	1908	3		17	1					BO MC	
24	1947	1955	1950	1							05	BO(WWI8-0.5)	
24	2355	2357	2356	1							07	HA(WWVH5-0.7,	2355
												WWVH10-0.3)	
24	2355	2408	2358	1					20			MA(NPG18-20)	
25	1620			1					99			BO(WWVL20-200)	
25	1623	1715U		5	SL 1							TR MC	
25	1807	1811	1809	5							14	BO(WWI8-1.4)	1807
												HA(WWVH5-0.5)	
25	1810			5					99			BO(WWVL20-200)	1807
												HA(WWVL20-25)	
25	1810	1830	1820	5	SL 1-							MC BE HU TR	
25	1844			5					99			BO(WWVL20-140)	1843
												HA(WWVL20-43)	
25	1844	1846	1845	1							08	BO(WWI11-0.8)	
25	1850	1906	1858	5	SL 1							BE MC TR	
25	1857	1859	1858	5							12	BO(WWI11-1.2)	
												HA(WWVH5-1.0)	
25	1951	2015	2000	3		31	2					BO MC	1948
25	1952	2110	2003	1				2+				A6	
25	1955	2038	2000	5	S 1							HU AN BE MC WS	
25	1956			5					99			BO(WWVL20-200)	
												AN(NPM26-76,NSS21-11)	
												HA(WWVL20-58)	
												MA(NPM26-65)	
26	0137	0156	0145	1	SL 1-							MA	0142E
26	0139	0158	0145	1					50			MA(NPG18-50)	
27	0251	0253	0252	1							02	HA(WWVH5-0.2)	0302E
27	0251	0312	0254	1					54			MA(NPG18-54)	
27	0251	0316	0255	4	G 1-							MA OK	
27	1300	1330		1	S 1-							PU	1258
27	1304	1344		1				1+				PU	
27	1454	1457	1454	1							03	BO(WWI8-0.3)	1429E
27	1503	1505	1504	1							02	BO(WWI9-0.2)	1505E
27	1504	1515	1510	5	SL 1-							TR PU	
27	1505	1545		1				1				PU	
27	1637	1805	1643	5				3				A6 A1 LO PU	1637
27	1640		1644	1							110	BO(WWI11-11.0)	
27	1640	1725	1651	3		48	2					BO MC	
27	1640	1752	1655	5	S 2+							MC BA BE BO GS HU TO SO	
												SW	
27	1648	1918	1655	1					47			HA(WWVL20-47)	
27	1709	1712	1710	1							03	BO(WWI11-0.3)	
27	2114	2302	2140	5					99			MA(NPG18-208,NPM26-105)	2048
												AN(WWVL20-137)	
												HA(WWVL20-76)	
27	2116	2125	2116	1							03	BO(WWI9-0.3)	
27	2121	2150	2135	5	SL 1+							MC BE BO GH GS HU TO WS	
27	2122	2200	2129	1		9	1					BO	
27	2340	2432	2344	5					36			MA(NPG18-36,NPG18-30)	2335
												HA(WWVL20-11)	
28	0148	0240	0203	1					90			MA(NPG18-90)	*
28	0159	0237	0210	1	S 1-							MA	
28	1603	1606	1604	1							03	BO(WWI9-0.3)	1555
28	1604	1618	1610	1	S 1-							TR	
28	1835	1920	1840	1					22			HA(WWVL20-22)	1825
28	1836	1855	1843	5	SL 1-							BE MC TR WS	
28	2234	2258	2242	1					23			MA(NPG18-23)	2236
28	2237	2239	2238	1							02	BO(WWI9-0.2)	

No Anchorage data available from 01 February to 08 February, 1967 inclusive.
Hawaii SCNA-SEA out of operation.

RIOMETER EVENTS

FEBRUARY 1967

Great Whale River

30 Mc/s

FEB. 1967	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS	FEB. 1967	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS
02	1350		2118			17	0056	2214	0312	40	12
03		1121		10	3	18	0130	2156	0401	20	8
03	1505	2327	2101	11	1	19	0738	1016	0808	6	2
04	0448	0626	0524	15	1	19	1222	2321	1413	15	5
04	1153					20	0948		1826		
05		2309	0133	37	13	21		0121		10	7
06	0236	0908	0323	6	3	21	0737	2258	1650	20	8
07	*					22	0650		1440		
08		1910	1258	32	20	23		0138		28	8
09	0537		0540			23	0950		1130		
10		2100		31	12	24		2351		5	24
11	0310	2250	1437	16	12	25	0348	2208	0507	35	10
13	1700	2331	1742	7	6	26	0045		1700		
14	1508	2250	1814	5	9	27		0110		30	5
15	0120	1058	0700	4	5	27	0415		1505		
15	1415		1720			28		0432		26	8
16		0305		6	6	28	*	2210	1843	7	2
16	0804	2232	0912	65	23						

* TIME NOT KNOWN DUE TO EQUIPMENT FAILURE OR OTHER CAUSE.

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

NO DATA ZEROS FOR ALL VALUES OF A DAY.

SOLAR RADIATION MONITORING SATELLITE
X-RAY

FEBRUARY 1967

OUTSTANDING EVENTS FOR FEBRUARY 1967							
DATE	STA	START	STOP	8-20 $x10^{-3}$	0-8 $x10^{-4}$	0-3 $x10^{-5}$	COMMENTS
1	NRL	1223	1233		86.51	115.81	INCREASING
	NRL	2254	2307		46.00	9.38	
21	NRL	1247	1256		141.54	5.24	
	NRL	1802	1814		230.00	17.30	
22	NRL	0841	0857	165.10	37.81	13.11	
	ABRD	1211	1218	170	40	11	
	NRL	1403	1413	135.36	37.90	10.31	
	NRL	1731	1745	131.19	47.97	15.50	INCREASING
	ABRD	1914	1924	380 D	75 D	63	
23	ABRD	1142	1154	96 D			
	NRL	1145	1154	128.45	512.27	63.96	INCREASING
	NRL	1702	1715	69.53	118.30	10.04	DECREASING
24	NRL	0740	0756	127.57	229.81	28.78	
	ABRD	1428	1440	37	66	11	
	NRL	1447	1500	59.11	47.21	4.94	DECREASING
	NRL	1631	1645	56.33	61.90	12.17	INCREASING
	ABRD	1814	1824	40	45	6.2	
25	NRL	0855	0910	42.61	51.45	8.59	
	NRL	1418	1429	29.79	24.65	2.69	DECREASING
	NRL	1601	1613	32.95	41.48	8.88	DECREASING
	ABRD	1744	1754	31	22	3.8	
	NRL	1746	1755	34.67	30.42	5.06	INCREASING
26	NRL	0825	0840	33.77	31.65	6.18	
	NRL	1346	1358	32.74	21.58	2.18	INCREASING
	ABRD	1531	1540	38	19	1.8	
	ABRD	1713	1724	31	15	0.92	
27	ABRD	1313	1324	38	40	7.0	
	NRL	1316	1327	41.67	43.76	7.63	DECREASING
	NRL	1504	1514	35.14	38.29	5.97	INCREASING
	ABRD	1644	1654	45 D			
	NRL	1646	1657	47.19D	128.55D	17.24D	
28	NRL	0911	0923	27.43	18.71	1.36	
	NRL	1246	1257	26.89	15.86	0.93	
	NRL	1615	1627	40.73	32.61	3.45	DECREASING

NRL SOLAR X-RAY DATA (Preliminary)

DAILY AVERAGES FOR FEBRUARY 1967			
DATE	44-60 $x10^{-1}$	8-20 $x10^{-3}$	0-8 $x10^{-4}$
1	4.75		26.05
2	4.28		3.58
3	3.36		
20	4.02		
21	5.16		9.89
22	8.27	126.19	37.62
23	4.80	31.49	23.88
24		52.49	45.14
25		30.77	28.14
26		33.61	22.88
27		23.09	11.21
28		22.96	10.07

Only the daily averages as given by NRL are presented. This is because they have available the maximum number of records from a single station from which to calculate the averages.

SOLAR RADIATION MONITORING SATELLITE
X-RAY

FEBRUARY 1967

OBSERVING TIMES FOR FEBRUARY 1967

DATE	STA	START	STOP	ASPECT ANGLE
1	NRL	1223	1233	31.0
	NRL	1403	1419	31.2
	NRL	1549	1603	31.4
	BOUL	1729	1744	32.0
	NRL	1738	1747	31.5
	BOUL	1918	1930	32.0
	NRL	1925	1934	31.7
	BOUL	2104	2115	32.0
	NRL	2110	2122	32.1
	NRL	2254	2307	32.5
2	NRL	0040	0048	32.7
	NRL	1154	1202	34.4
	NRL	1334	1348	34.5
	NRL	1519	1533	34.5
	BOUL	1659	1714	34.0
	NRL	1706	1716	34.5
	NRL	1855	1903	34.5
	BOUL	2034	2045	34.0
	NRL	2039	2051	35.0
	NRL	2224	2238	35.4
3	NRL	0009	0019	35.8
	NRL	1303	1318	37.5
	NRL	1448	1503	37.5
	NRL	1636	1645	37.5
	NRL	1824	1832	37.6
	NRL	2009	2019	38.0
20	NRL	1318	1327	39.0
	NRL	1504	1515	38.5
21	NRL	0913	0927	34.8
	NRL	1100	1111	34.8
	NRL	1247	1256	34.5
	NRL	1434	1444	34.4
	NRL	1617	1631	33.7
	NRL	1802	1814	33.8
22	NRL	0841	0857	30.0
	NRL	1028	1040	29.7
	ABRD	1211	1218	
	NRL	1216	1226	29.5
	NRL	1403	1413	29.3
	NRL	1547	1601	29.0
	ABRD	1550	1554	
	NRL	1731	1745	28.5
	ABRD	1733	1742	
	ABRD	1914	1924	
23	NRL	0957	1011	24.2
	ABRD	1142	1154	
	NRL	1145	1154	23.7
	ABRD	1328	1339	
	NRL	1332	1342	23.5
	NRL	1517	1530	23.4
	ABRD	1518	1525	
	NRL	1702	1715	23.0
	NRL	1849	1854	22.6
24	NRL	0740	0756	18.5
	NRL	0926	0940	18.2
	NRL	1114	1124	17.8
	ABRD	1114	1122	
	ABRD	1258	1306	
	NRL	1302	1312	17.6
	ABRD	1428	1440	
	NRL	1447	1500	17.2
	NRL	1631	1645	17.0
	ABRD	1814	1824	
25	NRL	0855	0910	12.0
	NRL	1044	1053	11.6
	ABRD	1044	1054	
	ABRD	1228	1238	
	NRL	1232	1241	11.3
	ABRD	1414	1425	
	NRL	1418	1429	11.1
	NRL	1601	1613	10.7
	ABRD	1601	1611	
	ABRD	1744	1754	
	NRL	1746	1755	10.2
26	NRL	0825	0840	5.0
	NRL	1014	1024	5.5
	ABRD	1156	1208	
	NRL	1202	1211	5.5
	NRL	1346	1358	5.0
	ABRD	1348	1354	
	NRL	1531	1545	3.5
	ABRD	1531	1540	
	ABRD	1713	1724	
	NRL	1716	1726	3.5
27	NRL	0942	0953	-3.0
	NRL	1131	1140	-3.0
	ABRD	1313	1324	
	NRL	1316	1327	-3.0
	NRL	1504	1514	-3.0
	ABRD	1644	1654	
	NRL	1646	1657	-3.0
28	NRL	0724	0740	-8.1
	NRL	0911	0923	-8.5
	ABRD	1055	1107	
	NRL	1100	1109	-8.7
	NRL	1246	1257	-9.0
	ABRD	1247	1253	
	NRL	1430	1444	-9.4
	ABRD	1431	1440	
	NRL	1615	1627	-9.8

COSMIC RAY INDICES
(Neutron Monitors)

FEBRUARY 1967

FEB. 1967	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	*	6680.8	3991.9	*
2		6734.7	4033.0	
3		6710.2	3990.2	
4		6643.2	3947.9	
5		6641.7	3965.8	
6		6604.5	3891.4	
7		6605.5	3925.0	
8		6475.3	3881.6	
9		6453.8	3850.9	
10		6495.8	3876.3	
11		6563.3	3896.9	
12		6631.1	3928.9	
13		6635.3	3935.6 (38)	
14		6638.4	3983.5 (26)	
15		6667.3	3994.2	
16		6512.7	3918.8	
17		6497.2	3898.2	
18		6569.6	3919.8	
19		6589.0	3927.2	
20		6616.8	3944.6	
21		6654.5	3976.2	
22		6690.0	4010.7	
23		6717.6	4028.4	
24		6750.5	4028.9	
25		6737.8	4021.0	
26		6731.5	4031.5	
27		6732.3	4035.4	
28		6761.8	4040.9	

* The data 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.

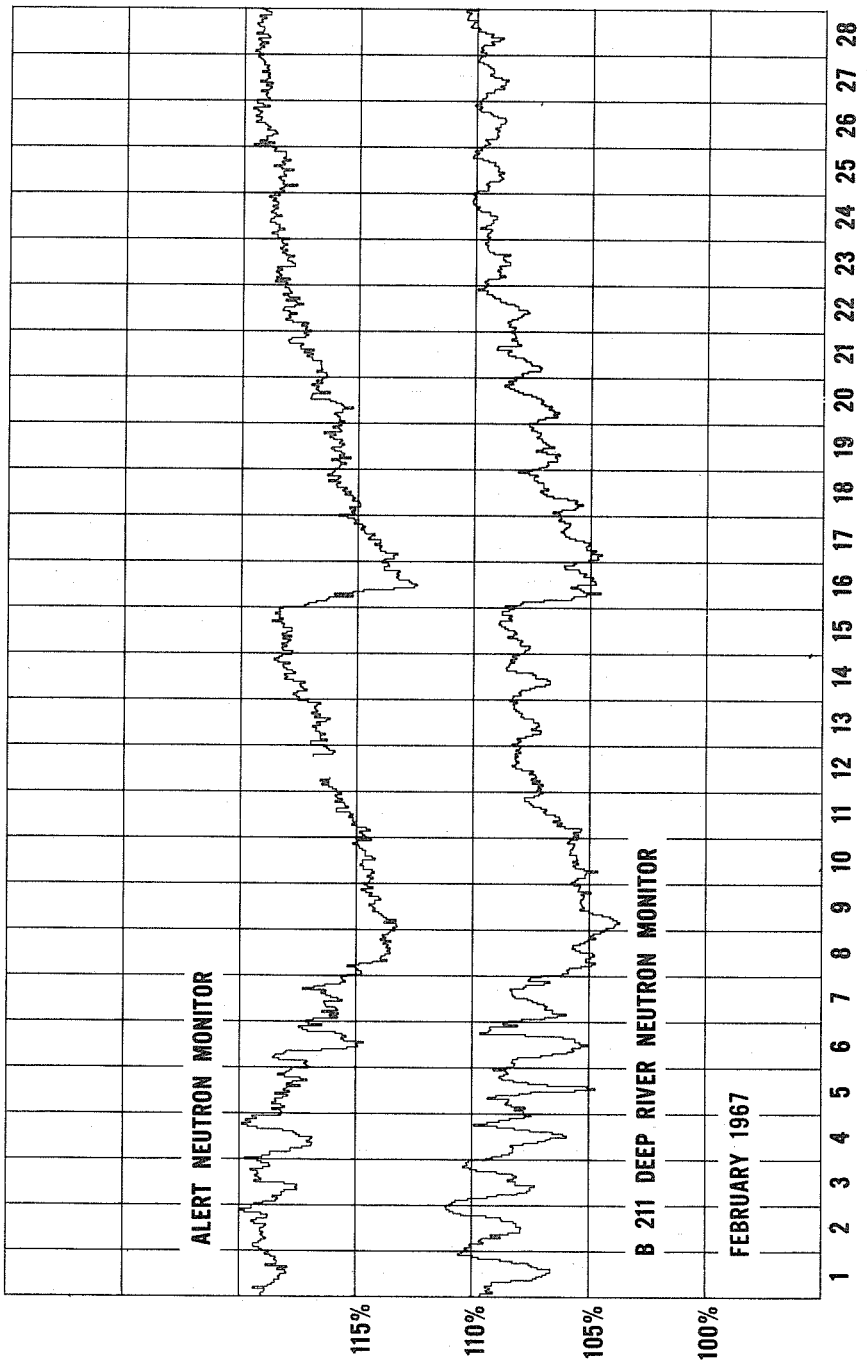
Deep River Neutron Monitor, Scaling Factor 300.

Climax IGC Station B305, Scaling Factor 100.

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

FEBRUARY 1967



GEOMAGNETIC ACTIVITY INDICES

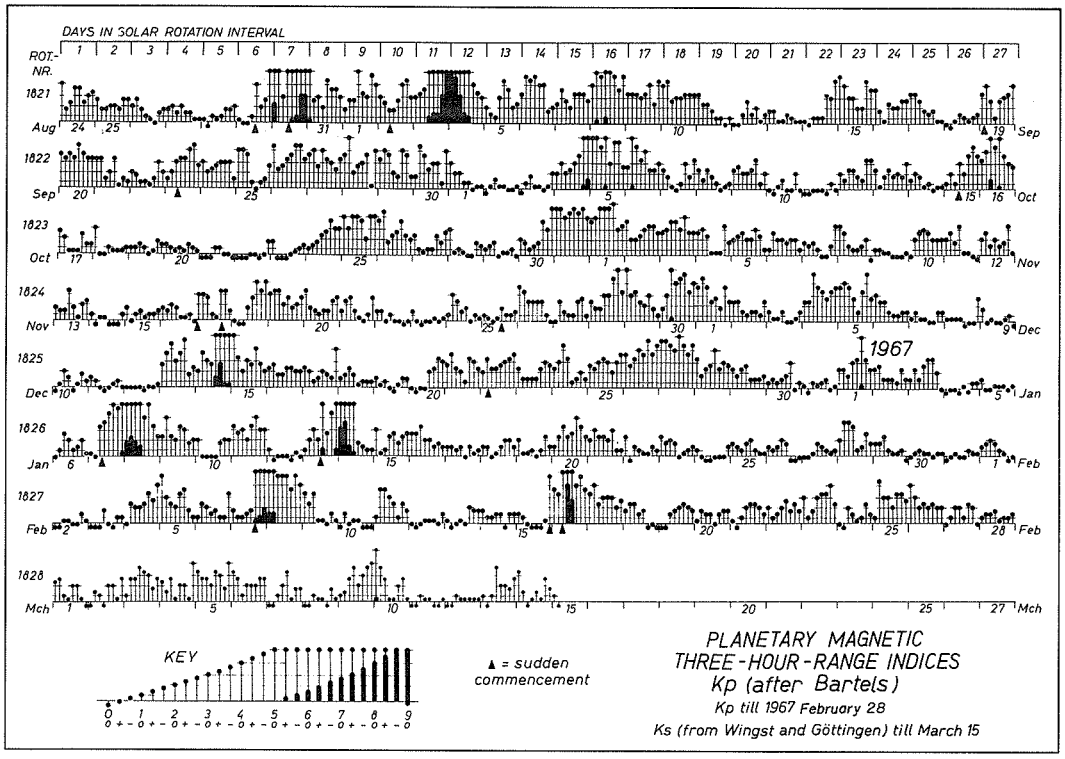
FEBRUARY 1967

DAY		Kp THREE-HOUR RANGE INDICES								SUM	Ci	Cp	Ap
		1	2	3	4	5	6	7	8				
1	Q	1+	2-	2	2-	1	1-	0	0+	9-	0.1	0.1	4
2	QQ	0	0	1-	1-	0+	0+	1+	1-	4	0.1	0.0	2
3	QQ	0	0	0	2-	0+	0	1	1	4	0.0	0.0	2
4		0+	2+	2	2	2+	3+	3-	4	19	0.8	0.7	11
5		5-	3	2+	2	3+	4-	2-	1	22-	1.0	0.8	15
6		1	2+	2	1+	2-	1	1	3+	14-	0.4	0.4	7
7	D	2-	1	1	1+	2-	5+	6-	6+	24	1.5	1.3	30
8	D	6	6	5-	5-	5-	4-	5-	4	38+	1.7	1.5	46
9		3+	2+	3+	1-	1-	0+	1+	1-	13-	0.4	0.4	8
10	QQ	0	1+	0+	1-	1-	0	0	0	3	0.1	0.0	2
11		1	4-	4-	3	2+	1	2+	2-	19-	0.5	0.7	11
12	QQ	0+	0	0+	1-	1-	1-	0+	1+	4+	0.1	0.0	2
13	QQ	1-	0	0+	1-	0+	2	2-	2-	7+	0.2	0.1	4
14	Q	2-	1	1	1+	1+	0	1+	1+	9	0.2	0.1	4
15		1+	1	0+	0	0	0	1-	5-	8	0.4	0.3	7
16	D	4-	3+	5	8	7	4	5-	4-	39+	1.8	1.7	64
17	D	3+	4	2+	3	3	3	2	3-	23+	0.8	0.8	15
18		2-	2+	2+	1+	2-	0	0+	0	10-	0.1	0.2	5
19		0	0	1+	2-	2	2+	2	2-	11	0.3	0.2	5
20	Q	1-	2-	1+	1+	0+	1+	2-	2-	10	0.2	0.2	5
21		1-	0	1	2	2+	2+	2	1+	12-	0.3	0.2	6
22		2	1	1+	2	3-	2-	2+	2-	15-	0.3	0.4	7
23		3	1	2-	3	3+	3+	4	2+	22-	1.1	0.8	14
24	Q	0+	0	2	1+	1-	1	2+	1+	9	0.2	0.2	4
25	D	1	4+	3	3	2	3+	3+	3-	23-	1.0	0.4	15
26		4	3	2	2+	2	2+	2	2	20-	0.7	0.3	11
27		0+	1	2	2	1	2+	2	0+	11	0.3	0.1	5
28	Q	1	1+	1+	2-	1-	1	1	1+	9+	0.2	0.1	4
										MEAN	0.53	0.43	11

Preliminary storm sudden commencements (ssc) occurred February 7 at 1636UT, February 15 at 2347UT and February 16 at 0835UT.

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.

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

DAY	1966 MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	1967 JAN.	FEB.
1	3	18	8	12	5	6	22	6	31	17	18	4
2	3	13	12	10	4	1	15	3	14	6	7	2
3	10	7	5	7	4	7	92	4	17	4	10	2
4	9	8	12	4	14	8	112	26	9	19	2	11
5	5	6	6	5	5	10	13	36	9	20	3	15
6	4	7	7	4	5	6	24	22	7	7	6	7
7	2	10	4	9	4	5	14	8	6	4	28	30
8	3	10	5	4	22	5	42	5	7	4	60	46
9	4	5	5	3	36	9	19	9	3	3	12	8
10	10	5	2	2	25	12	19	3	9	4	4	2
11	6	2	10	3	8	14	7	2	6	3	16	11
12	6	3	6	7	15	14	5	10	8	2	2	2
13	14	15	7	5	3	6	4	8	7	20	26	4
14	64	8	2	4	4	9	10	4	2	48	61	4
15	7	4	2	6	8	5	20	14	4	18	9	7
16	7	3	5	6	6	4	10	20	4	8	9	64
17	6	4	7	4	11	2	9	6	11	9	4	15
18	4	3	5	3	4	10	3	4	12	5	5	5
19	20	2	3	6	5	20	17	4	12	3	5	5
20	10	5	8	7	6	7	21	4	8	7	13	5
21	8	5	4	4	14	5	10	2	6	12	9	6
22	7	13	4	3	8	4	6	2	3	14	4	7
23	67	10	2	17	6	22	17	2	2	8	5	14
24	2	6	2	16	6	16	12	11	6	12	2	4
25	14	3	5	16	4	8	13	22	4	14	5	15
26	20	3	78	6	6	6	22	15	10	24	4	11
27	13	1	5	4	11	5	18	6	6	34	4	5
28	42	4	5	5	10	4	22	5	19	14	12	4
29	12	6	4	6	5	13	17	4	15	7	4	
30	6	10	6	6	6	82	16	13	28	6	3	
31	3		48		5	23		34		3	2	
MEAN	13	7	9	6	9	11	21	10	9	11	11	11

PRINCIPAL MAGNETIC STORMS

FEBRUARY 1967

DATE 1967 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
02 03	1800	02 05 22	HYDE	07.6N	••	••	••	••	M	-- --	-	-	2	87	18	7
02 04	08--	02 05 22	COLL	64.6N	••	••	••	••	MS	02 05	6	6	59	720	350	7
	1134	02 05 18	KGLN	57.3S	SC	--	--	--	M	02 05	1,5	4	--	--	--	7
02 06	2115	02 08 24	TUCS	40.4N	SC	- 2	-20	--	MS	02 07	6	6	20	150	15	8
	2115	02 09 01	HONO	21.1N	SC	-	- 3	-	M	02 08	2	5	8	153	30	8
	1800	02 09 01	HYDE	07.6N	••	••	••	••	MS	-- --	-	-	6	212	22	8
	2110	-- -- --	HYDE	07.6N	SI	- 0.3	-18	- 3	-	-- --	-	-	--	--	--	8
02 07	14--	02 09 08	COLL	64.6N	••	••	••	••	S	02 07	6	8	211	2060	1040	8
	14--	02 09 00	SITK	60.0N	••	••	••	••	MS	02 08	4	7	125	800	460	8
	1636	02 09 02	WITT	54.1N	SC	- 2	+10	0	MS	02 07	8	7	45	220	95	8
	1637	02 09 01	FRED	49.6N	SC *	- 2	+34	+ 8	M	02 07	6	5	30	136	100	8
										02 08	1	5				8
	1636	02 09 01	SJUA	29.9N	SC	- 0.2	+15	+ 5	MS	02 07	7	6	10	161	52	8
	1636	02 09 09	MBOR	21.3N	SC	- 2.2	+27	-	MS	02 07	6,7,8	6	4	130	25	8
										02 08	1	6				8
	1637	02 09 01	ALIB	09.6N	SC	- 0.3	+19	- 4	MS	02 07	6	6	7	159	45	8
	1635	02 09 01	GUAM	04.0N	SC	+01	+29	-09	MS	02 07	8	6	1	73	08	8
	1637	02 09 01	ANNA	01.5N	SC	- 0.9	+24	+16	MS	-- --	-	-	5	198	36	8
	1637	02 09 01	TVAN	01.1S	SC	- 0.3	+21	+28	MS	-- --	-	-	3	211	164	8
	1636	02 09 02	APIA	16.1S	SC	+ 0	+14	- 6	M	02 07	7	5	11	163	40	8
	00--	02 09 01	PMOR	18.6S	••	••	••	••	M	02 07	6,7,8	5	11	162	90	8
										02 08	1,2,3 4	5				8
										02 08	5,7	5				8
	1636	02 08 24	HRMN	33.3S	SC	+ 2.1	+10.2	+ 8.9	MS	02 07	6	6	25	123	136	8
	14--	02 09 02	GNAN	43.2S	••	••	••	••	MS	02 07	6	6	21	186	128	8
										02 08	1	6				8
	1636	02 09 09	TOOL	46.7S	SC *	+ 1.9	+32	--	MS	02 08	2	6	23	270	68	8
02 11	05--	02 11 23	COLL	64.6N	••	••	••	••	M	02 11	4	5	73	470	1220	9
02 14	2347	02 16 20	SITK	60.0N	SC *	--	--	--	S	02 16	4,5	9	210	1860	1240	10
02 15	2348	02 18 14	COLL	64.6N	SC *	+40	+97	+49	S	02 16	4,5	8	633	2640	1530	10
	2348	02 16 23	WITT	54.1N	SC	- 6	+90	0	MS	02 16	4	7	55	265	95	10
	2349	02 17 15	FRED	49.6N	SC *	+ 2	+79	-10	S	02 16	4	8	33	372	1132	10
	2348	02 16 21	TUCS	40.4N	SC	+ 2	+60	+ 4	S	02 16	4	8	30	280	40	10
	2349	02 17 05	SJUA	29.9N	SC	- 0.2	+42	+12	MS	02 16	5	7	11	202	31	10
	2348	02 17 18	MBOR	21.3N	SC	- 0.7	+57	- 4	S	02 16	4	8	18	245	70	10
	2348	02 16 21	HONO	21.1N	SC	+	+33	+14	MS	02 16	4	7	10	189	58	10
	2348	02 16 23	ALIB	09.6N	SC	- 0.2	+35	- 3	S	02 16	4	9	7	411	51	10
	2349	02 17 18	HYDE	07.6N	SC	- 0.2	+38	- 2	MS	-- --	-	-	7	358	42	10
	2348	02 16 22	GUAM	04.0N	SC *	+01	+57	-18	S	02 16	4	8	2	226	37	10
	2348	02 16 23	ANNA	01.5N	SC	- 0.8	+41	+21	S	-- --	-	-	7	457	105	10
	2348	02 16 23	TVAN	01.1S	SC	+ 0.5	+30	+44	S	-- --	-	-	4	505	--	10
	2348	02 17 12	APIA	16.1S	SC	+ 1	+46	-10	MS	02 16	4	7	9	238	61	10
	2348	02 17 18	PMOR	18.6S	••	••	••	••	S	02 16	4	8	8	283	137	10
	2348	02 16 23	HRMN	33.3S	SC	+ 4.0	+36.4	+31.9	S	02 16	4	8	37	270	178	10
	2349	02 16 16	GNAN	43.2S	SC *	+ 3	+ 9	+10	S	02 16	4	8	36	298	257	10
	2347	02 17 18	TOOL	46.7S	SC	+ 2.3	+ 9	--	S	02 16	4	8	33	364	77	10
	2348	-- -- --	KGLN	57.3S	SC	--	--	--	-	-- --	-	-	--	--	--	10
02 16	0831	02 17 18	KGLN	57.3S	SC	--	--	--	S	02 16	4	8	--	--	--	10
02 22	2300	02 23 22	HYDE	07.6N	••	••	••	••	M	-- --	-	-	2	158	12	11
02 23	09--	02 24 03	COLL	64.6N	••	••	••	••	MS	02 23	5,6,7	6	240	1240	640	11
	09--	02 23 21	HRMN	33.3S	••	••	••	••	M	02 23	5,6,7	5	12	104	103	11

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

FEBRUARY 1967

NORTH ATLANTIC, NORTH PACIFIC

FEB. 1967	WHOLE DAY INDICES: NORTH ATLANTIC	WHOLE DAY INDICES: NORTH PACIFIC	WHOLE DAY INDICES: AVERAGE HIGH LATITUDE	ADVANCE FORECASTS (Jc-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	NORTH ATLANTIC SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF: 00	06	12	18	NORTH PACIFIC 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	GEOMAGNETIC INDICES: K_{FR} HALF DAY (1)	(2)	A_{FR} OBSERVED	A_{FR} PREDICTED	K_{SI} HALF DAY (1)	(2)	A_{SI}
01	6+	6	6	7	6o	6+	7-	7-	6	6	7	7	6	6	6	6	2	0	3	3	2	0	3
02	7-	6	6	6	7-	7-	7-	7-	6	6	7	7	6	6	6	6	0	1	2	4	0	0	1
03	6+	6	6	6	6+	6-	7-	7o	6	6	7	7	6	6	6	6	0	1	2	4	0	0	1
04	7-	6	6	6	7-	6o	7-	7-	6	6	7	6	6	6	6	6	2	3	12	12	2	3	12
05	7-	6	6	6	6+	6+	7o	7o	6	6	7	7	6	6	6	6	3	2	12	10	2	2	9
06	7-	6	6	6	7-	6+	7-	7-	6	6	7	7	6	6	6	6	2	2	7	7	2	2	6
07	6+	6	6	6	7-	6+	7-	6-	6	6	7	7	6	6	6	6	2	(4)	17	5	0	(4)	19
08	6-	5	5	6	5-	5-	6+	7-	5	4	7	6	6	6	5	5	(4)	(4)	28	5	(5)	(4)	52
09	6+	6	6	6	7-	6-	7-	7o	5	5	7	7	6	6	6	6	2	1	5	12	2	0	4
10	7-	6	6	6	7-	6+	7-	7o	6	6	7	7	6	6	6	6	1	0	1	7	0	0	1
11	7-	6	6	6	7-	6o	7-	7o	7	6	7	7	6	6	6	5	3	2	11	5	2	1	8
12	6+	6	6	6	6o	6+	7-	7-	6	6	7	7	6	6	6	6	1	1	3	5	0	0	0
13	7-	6	6	7	6+	6+	7-	7-	7	6	7	7	6	6	6	6	0	1	1	3	0	1	2
14	7-	6	6	6	7-	6+	7-	7-	7	6	7	6	6	6	6	6	1	1	3	18	0	0	2
15	7-	6	6	4	7-	6+	7-	7-	5	4	7	6	6	6	6	6	1	1	7	45	0	1	4
16	6o	5	6	6	6+	6-	6-	7-	6	3	5	6	6	5	5	5	(5)	(4)	63	7	(4)	(6)	122
17	6+	6	6	6	6-	6-	7-	7-	5	4	7	7	6	6	6	6	3	2	12	11	3	2	14
18	6+	6	6	6	6+	6+	6+	7-	6	6	7	7	6	6	6	6	2	1	3	7	2	1	5
19	7-	6	6	7	6+	6+	7-	7-	6	6	7	7	6	6	6	6	1	2	5	5	0	1	3
20	7-	6	6	7	7-	6+	7-	7o	6	6	7	7	5	6	6	6	1	1	3	3	1	0	2
21	7-	6	6	7	7-	6+	7-	7o	7	6	7	7	5	7	6	6	1	2	5	3	0	2	5
22	7-	6	6	7	6+	6+	7-	7-	7	6	7	7	6	6	6	6	1	2	6	3	2	2	8
23	7-	6	6	7	6+	6+	7o	7-	7	6	7	7	6	6	7	6	2	2	8	7	2	3	14
24	7-	6	6	6	6+	6+	7-	7o	6	6	7	7	6	6	6	6	1	1	3	10	1	1	3
25	7-	6	6	6	7-	6+	7o	7-	7	6	7	7	6	6	6	6	2	2	10	6	2	2	11
26	7-	6	6	6	6+	6+	7-	7-	7	6	7	7	6	6	6	6	2	2	7	3	2	2	7
27	7-	6	6	7	7-	6+	7-	7-	7	6	7	7	6	6	6	6	1	1	4	3	1	1	3
28	7-	6	6	7	7-	6+	7-	7o	7	6	7	6	6	6	6	6	1	1	3	3	0	0	1
QUIET			P	17					15	22	25	21											
			S	10					11	3	3	7											
			U	0					2	0	0	0											
			F	1					0	3	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.

SPECIAL NOTE:

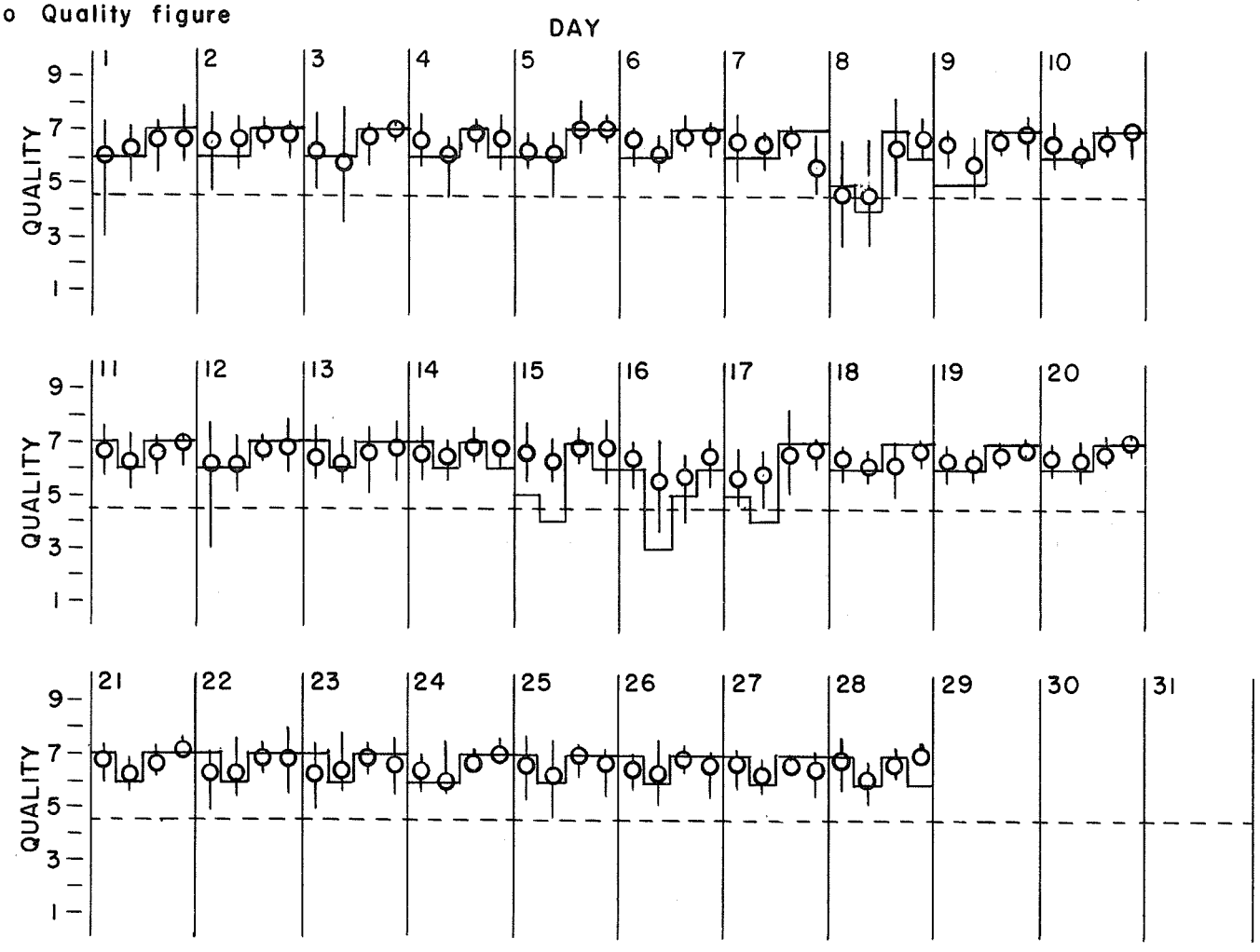
A Special Disturbance Warning (SDW) issued February 13 for the period February 14, 15 and 16 is included in the chart above. The quality figures originally forecast for the three days were 7, 7 and 5 respectively, and the magnetic indices originally forecast were 3, 6 and 15.

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

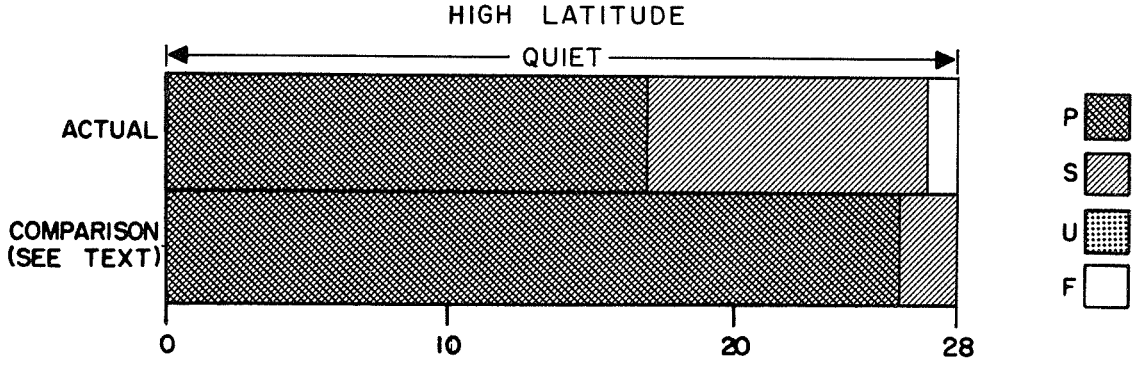
FEBRUARY 1967

NORTH ATLANTIC

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

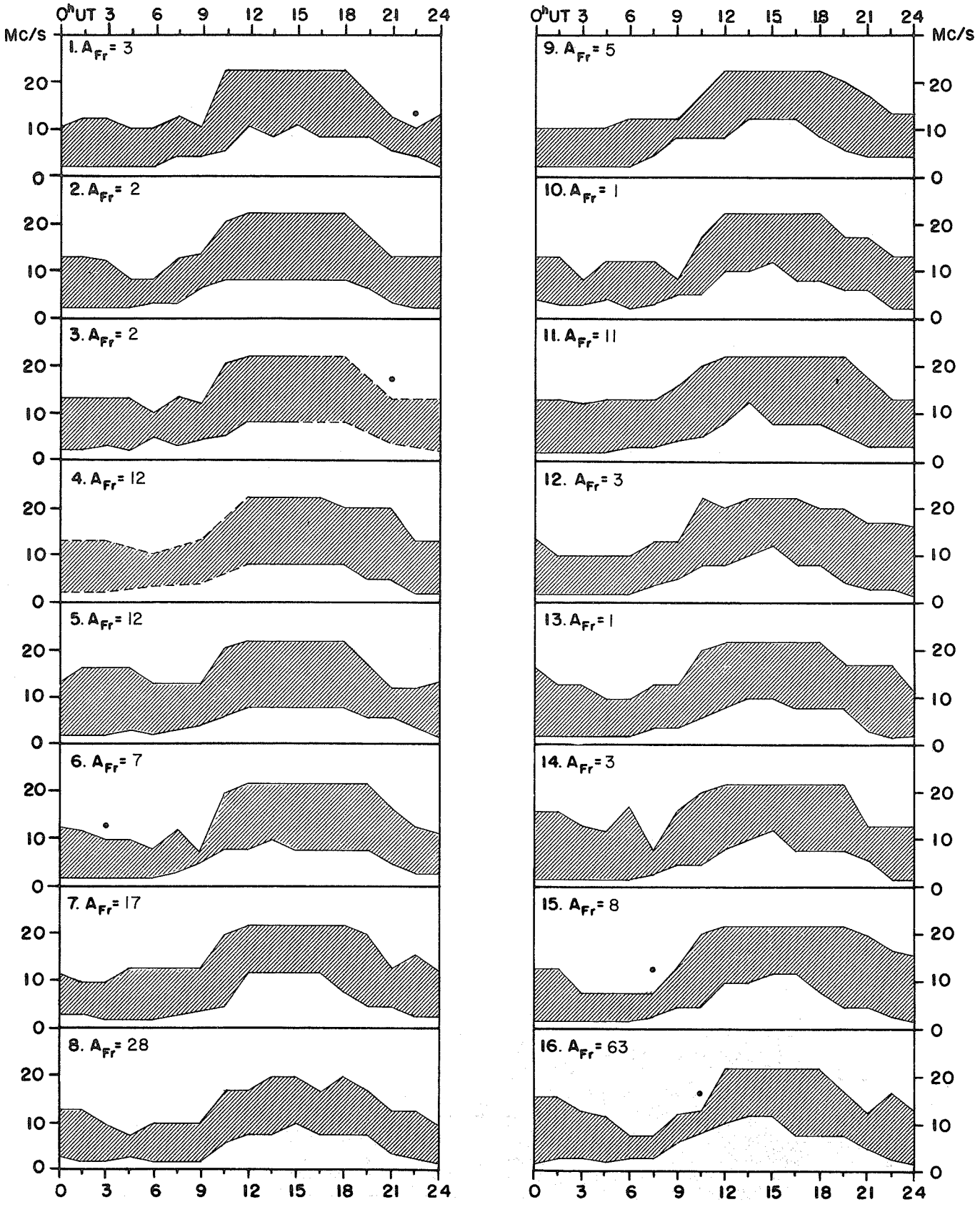


HIGH LATITUDE



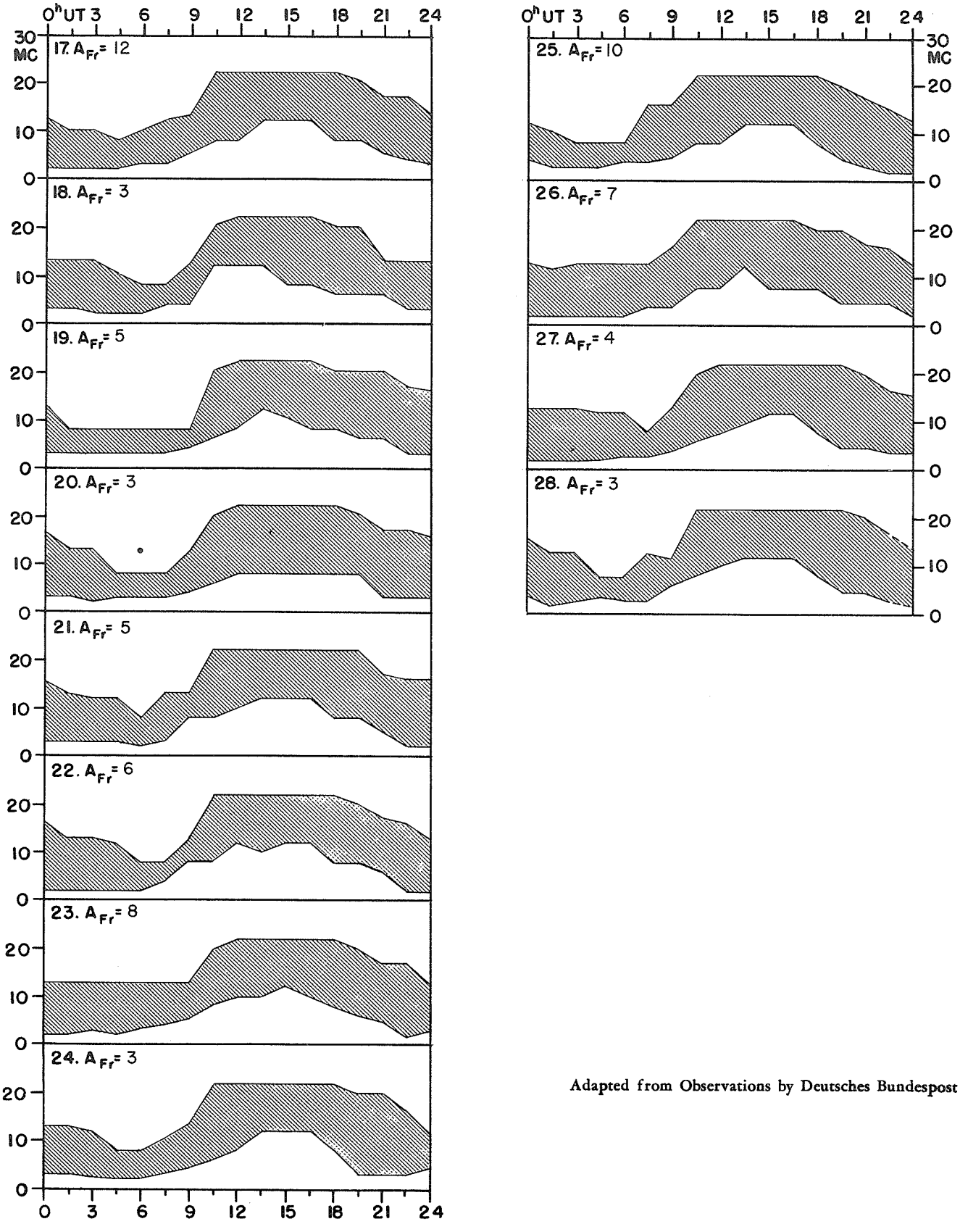
TRANSMISSION FREQUENCY RANGES--NORTH ATLANTIC PATH

FEBRUARY 1967



TRANSMISSION FREQUENCY RANGES--NORTH ATLANTIC PATH

FEBRUARY 1967



Adapted from Observations by Deutsches Bundespost

Table of Contents
for October 1966 Data

For explanations of the data contained herein see "Descriptive Text" published in February 1967.

SOLAR FLARES

REVISED

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	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. %	
GRP 950	01	0148	0224	0154	N32	W50	.797	8516	27.3	36	1-				.47				1 1 1
CULG	01	0148	0224	0154	N32	W50	.797	8516	27.3	36	-N		C	0154	.52	.80			FL
GRP 951	01	0213	0325	0236	N28	W62	.884	8516	26.4	72	2				4.12				4 3 3
CULG	01	0208	0327D	0230	N30	W62	.887	8516	26.4	79D	2B		P	0230	5.16	10.00			LFU
VORO	01	0219	0310	0237	N26	W60	.867	8516	26.6	51	2F		P	0237	4.95	9.95		61	EK
SIBE	01	0238E	0330D	0241	N27	W61	.876	8516	26.5	52D	2N		C	0241	3.04	5.20		95	C
MITK	01	0252E	0333		N27	W62	.883	8516	26.5	41D	-N		C	0255	.93	2.00		160	
GRP 952	01	0255	0322	0301	S17	W11	.440	8529	30.3	27	1-				.50				1 1 1
MITK	01	0255	0322	0301	S17	W11	.440	8529	30.3	27	-N		C	0301	.72	.80		150	E
GRP 953	01	0439	0458		S17	W12	.447	8529	30.3	19	1-				.58				1 1 1
MITK	01	0439E	0458		S17	W12	.447	8529	30.3	19D	-N		C	0439	.83	.90		160	E
GRP 954	01	0558	0711	0644	S17	W14	.461	8529	30.2	73	1-				.66				2 1 1
ABST	01	0510E	0711D	0644	S17	W14	.461	8529	30.2	121D	-F		C	0644	.90	1.01		65	DJK
CAPS	01	0645	0651D		S16	W13	.440	8529	30.3	6D	-N	3		0649	.40	.40		160	E
GRP 955	01	0720	0735		S15	W15	.444	8529	30.2	15	1-								1 1 0
ISTA	01	0720E	0735		S15	W15	.444	8529	30.2	15D	-F								
GRP 956	01	0742	0801	0751	S16	W14	.448	8529	30.3	19	1-				.58				5 5 4
ISTA	01	0742	0800		S16	W14	.448	8529	30.3	18	1N								
CAPS	01	0747E	0801D		S16	W13	.440	8529	30.3	14D	-N	3		0749	.30	.30		175	
KAND	01	0750E	0800		S17	W14	.461	8529	30.3	10D	-N			0750	1.27	1.30			C
CATA	01	0750E	0800D	0752	S17	W12	.447	8529	30.4	10D	-B			0752	.27	.30		221	
ATHN	01	0750E	0802	0750	S16	W15	.456	8529	30.2	12D	-B	2		0750	.79	.90	1.60		
GRP 957	01	0816	0843		S16	W15	.456	8529	30.2	27	1-								2 2 0
ISTA	01	0810	0855		S15	W13	.427	8529	30.4	45	-F								
KAND	01	0821	0830		S16	W16	.465	8529	30.1	9	-N								C
GRP 958	01	0958	1005		S13	W43	.732	8522	28.2	7	1-				.60				1 1 1
MONT	01	0958	1005D		S13	W43	.732	8522	28.2	7D	-N		C	1000	.59	.72			
GRP 959	01	1010	1021	1012	S16	W16	.465	8529	30.2	11	1-				.17				1 1 1
ATHN	01	1010	1021	1012	S16	W16	.465	8529	30.2	11	-N	2		1012	.17	.20	1.50		
GRP 960	01	1133	1144	1135	S17	W19	.504	8529	30.1	11	1-				.28				2 2 2
HUAN	01	1133	1144	1135	S17	W18	.495	8529	30.1	11	-F	2	C	1135	.25	.25			D
ATHN	01	1133	1144	1135	S16	W19	.492	8529	30.1	11	-N	2		1135	.33	.40	1.60		
GRP 961	01	1230	1236	1232	S17	W17	.486	8529	30.2	6	1-				.20				2 2 2
HUAN	01	1230	1236	1232	S17	W16	.477	8529	30.3	6	-F	2	C	1232	.25	.25			D
ATHN	01	1232E	1236	1232	S16	W17	.474	8529	30.2	4D	-N	2		1232	.17	.20	1.50		
GRP 962	01	1326	1333	1327	S17	W19	.504	8529	30.1	7	1-				.55				3 3 3
MCMA	01	1325	1332	1327	S18	W20	.525	8529	30.1	7	-B		C	1327	.52	.60			D
HUAN	01	1325	1332	1326	S17	W19	.504	8529	30.1	7	-N	2	C	1326	.46	.48			D
CAPS	01	1327	1335D		S16	W18	.483	8529	30.2	8D	-B	3		1335	.50	.60		201	E
GRP 963	01	1546	1553	1547	N22	W62	.879	8516	27.0	7	1-				.40				2 2 2
MCMA	01	1545	1553	1547	N22	W62	.879	8516	27.0	8	-N		C	1547	.41	.80			D
HUAN	01	1546	1551D		N22	W61	.872	8516	27.1	5D	-F	1	P	1550	.21				D
GRP 964	01	1555	1645	1619	S17	W20	.513	8529	30.2	50	1-				1.16				4 3 3
MCMA	01	1550	1643	1617	S18	W20	.525	8529	30.2	53	-N			1557	.52	.60			
LOCK	01	1600	1700	1620	S16	W20	.502	8529	30.2	60	-N		C	1620	.80	1.00		20	K
SACP	01	1602E	1633	1628	S17	W19	.504	8529	30.2	31D	1N		P		2.13	2.21			
HUAN	01	1626E	1632D		S17	W20	.513	8529	30.2	6D	-N	1	P	1627	.72	.75			E
GRP 965	01	1641	1700	1646	N23	W70	.934	8516	26.4	19	1				.99				1 1 1
LOCK	01	1641	1700	1646	N23	W70	.934	8516	26.4	19	1F		C	1646	1.00	2.30		10	L
GRP 966	01	1647	1653	1649	S18	W21	.534	8529	30.1	6	1-				.61				2 2 2
MCMA	01	1646	1653	1648	S18	W20	.525	8529	30.2	7	-N		C	1648	.67	.80			E
HUAN	01	1647	1653	1650	S17	W21	.523	8529	30.1	6	-N	1	C	1650	.31	.32			D
GRP 967	01	1736	1803	1739	S17	W20	.513	8529	30.2	27	1				2.19				5 3 3
LOCK	01	1734	1815	1740	S16	W19	.492	8529	30.3	41	1B		C	1740	1.80	2.20		30	
SACP	01	1736	1750	1740	S17	W19	.504	8529	30.3	14	1N		C		3.40	3.53			
MCMA	01	1737	1742D	1738	S18	W20	.525	8529	30.2	5D	-B		C	1742	1.03	1.20			E
HUAN	01	1740E	1748D		S17	W20	.513	8529	30.2	8D	-B	1	P	1741	1.60	1.66			
HALE	01	1755E	1814D	1755U	S16	W22	.522	8529	30.1	19D	-N	1	P	1755	.26	.30			
GRP 968	01	1743	1833	1801	N24	W72	.945	8516	26.3	50	1-				.58				5 4 4
LOCK	01	1735	1835	1800	N25	W71	.939	8516	26.4	60	1N		C	1800	1.00	2.40		20	L
SACP	01	1751	1830	1800	N24	W72	.945	8516	26.3	39	-F		C		.60	1.16			
MCMA	01	1754E	1817D		N24	W75	.959	8516	26.1	23D	-N		C	1758	.31	.90			D
HALE	01	1755E	1814D	1802	N24	W68	.922	8516	26.6	19D	-N	1	P	1802	.26				
HUAN	01	1804E	1807D		N24	W73	.950	8516	26.3	3D	-F	1	P	1807	.25				D
GRP 969	01	1851	1917	1858	S17	W22	.533	8529	30.1	26	1-				.50				1 1 1
LOCK	01	1851	1917	1858	S17	W22	.533	8529	30.1	26	-N		C	1858	.50	.60		20	
GRP 970	01	2023	2052	2034	N23	W64	.895	8516	27.0	29	1-				.93				1 1 1
LOCK	01	2023	2052	2034	N23	W64	.895	8516	27.0	29	-N		C	2034	.90	1.80		10	
GRP 971	01	2044	2056	2046	S17	W23	.543	8529	30.1	12	1-				.90				4 3 3
LOCK	01	2043	2108	2046	S16	W24	.543	8529	30.1	25	-B		C	2046	.90	1.10		30	J
HALE	01	2045	2052	2046	S15	W24	.533	8529	30.1	7	-B	1	C	2046	.52	.60			
SACP	01	2045	2052	2046	S17	W23	.543	8529	30.1	7	-N		C		1.28	1.34			
MCMA	01	2047E	2050		S18	W21	.534	8529	30.3	3D	-N		P	2047	.52	.60			D

SOLAR FLARES

REVISED
OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 OCT																	
GRP 972	01	2352	0000	2354	S15	W25	.544	8529	30.1	8	1-				.57				2 2 2
SACP	01	2352	2354D	2354D	S16	W25	.553	8529	30.1	2D	-N		P		.86	.90			
HALE	01	2352	0000	2354	S14	W24	.524	8529	30.2	8	-N	1	C	2354	.31	.40			T
GRP 973	02	0014	0017	0017	S22	E44	.786	8528	5.3	3	1-				.37				1 1 1
HALE	02	0014U	0017U	0017U	S22	E44	.786	8528	5.3	3U	-N	1	P	0017	.31	.50			TE
GRP 974	02	0105	0124	0110	S17	W49	.808	8522	28.4	19	1-				.54				1 1 1
MANI	02	0105	0124	0110	S17	W49	.808	8522	28.4	19	-N	3		0110	.62	1.14			
	02	0215	0300	NO FLARE PATROL															
GRP 975	02	0558	0613	0603	S16	W27	.574	8529	30.2	15	1-				1.48				3 3 3
ABST	02	0557E	0610D	0605	S15	W30	.599	8529	30.0	13D	-N		C	0605	1.34	1.60		71	D
ATHN	02	0559	0611	0600	S17	W24	.552	8529	30.4	12	-B	2		0600	1.71	2.00	1.90		
SIBE	02	0559	0615D	0604	S16	W28	.585	8529	30.1	16D	1F		C	0604	1.90	2.50		54	E
GRP 976	02	0800	0815	0802	S18	W51	.829	8522	28.5	15	1-				1.04				1 1 1
ATHN	02	0800	0815	0802	S18	W51	.829	8522	28.5	15	-N	2		0802	1.02	1.80	1.40		
GRP 977	02	0835	0857		S15	W28	.577	8529	30.3	22	1-				.62				1 1 1
BUCA	02	0835E	0857D		S15	W28	.577	8529	30.3	22D	-F		C	0845	.89	1.10			E
GRP 978	02	0851	0945	0854	N22	W83	.988	8516	26.1	54	1-				.62				2 1 1
BUCA	02	0851E	0913D	0854	N23	W75	.959	8516	26.7	22D	1F		C	0854	.89				
ISTA	02	0900E	0945		N20	W90	.999	8516	25.6	45D	1N								
GRP 979	02	0900	0955		N25	E90	.999	8530	9.1	55	1-								1 1 0
ISTA	02	0900E	0955		N25	E90	.999	8530	9.1	55D	1N								
GRP 980	02	0900	0950		N29	W90	.998	8516	25.6	50	1+								1 1 0
ISTA	02	0900E	0950		N29	W90	.998	8516	25.6	50D	1B								
GRP 981	02	1251	1305	1252	S16	W32	.629	8529	30.1	14	1-				.92				3 2 2
ATHN	02	1250E	1304	1250	S18	W32	.644	8529	30.1	14D	-N	2		1250	1.32	1.70	1.80		
HUAN	02	1251	1306	1253	S16	W32	.629	8529	30.1	15	-N	1	C	1253	.46	.52			E
ONDR	02	1254E	1300D		S13	W33	.619	8529	30.1	6D	-F		V	1255			1.60		CD
GRP 982	02	1506	1641	1608	N24	E80	.979	8530	8.6	95	1-				.54				1 1 1
SACP	02	1506	1641	1608	N24	E80	.979	8530	8.6	95	-F		C		.60	1.49			
GRP 983	02	1622	1633	1627	S18	W33	.654	8529	30.2	11	1-				.46				1 1 1
SACP	02	1622	1633	1627	S18	W33	.654	8529	30.2	11	-F		C		.51	.57			
	03	0015	0030	NO FLARE PATROL															
GRP 984	03	0828	0830		N22	W85	.992	8522	27.0	2	1				.48				1 1 1
ARCE	03	0828E	0830D		N22	W85	.992	8522	27.0	2D	-N		P	0828	.48				
GRP 985	03	1643	1705	1645	N19	E74	.955	8530	9.2	22	1-				.41				1 1 1
MCMA	03	1643	1705	1645	N19	E74	.955	8530	9.2	22	-N		C	1645	.26	.30			DH
GRP 986	03	2239	2257	2244	S16	W74	.973	8522	28.4	18	1-				.37				1 1 1
MANI	03	2239	2257	2244	S16	W74	.973	8522	28.4	18	-F	2		2244	.46	1.10			
GRP 987	04	0005	0021	0009	N24	E72	.945	8530	9.4	16	1-				.47				1 1 1
SACP	04	0005E	0021	0009	N24	E72	.945	8530	9.4	16D	-F		P		.52	.98			
GRP 988	04	0213	0218	0215	N21	E73	.950	8530	9.6	5	1-				.50				1 1 1
MITK	04	0213	0218	0215	N21	E73	.950	8530	9.6	5	1N		C	0215	.72				
GRP 989	04	0659	0709	0700	S19	W77	.985	8522	28.5	10	1-				.38				1 1 1
ATHN	04	0659E	0709	0700	S19	W77	.985	8522	28.5	10D	-N	2		0700	.33		1.80		
GRP 990	04	0957	1000		N21	E69	.928	8530	9.6	3	1-								1 1 0
ONDR	04	0957E	1000		N21	E69	.928	8530	9.6	3D	-N		V	0959			2.50		CD
GRP 991	04	1050	1120	1100	N23	E69	.928	8530	9.6	30	1				1.00				3 3 1
ONDR	04	1049E	1134		N21	E68	.921	8530	9.6	45D	1N		V	1055			2.40		CH
CAPS	04	1051	1103		N23	E70	.934	8530	9.7	12	1N	3		1055	1.00			166	
KHAR	04	1059E	1124	1100	N24	E70	.934	8530	9.7	25D	2F		V	1059			2.20		DHKW
	05	0125	0130	NO FLARE PATROL															
	05	0140	0215	NO FLARE PATROL															
	05	0230	0300	NO FLARE PATROL															
	05	0330	0445	NO FLARE PATROL															
GRP 992	05	0551	0559	0553	N26	E42	.701	8530	8.4	8	1-				.50				1 1 1
ATHN	05	0551	0559	0553	N26	E42	.701	8530	8.4	8	-N	2		0553	.50	.70	1.60		
GRP 993	05	1115	1125	1115	N20	E50	.769	8530	9.2	10	1-				.70				1 1 1
ATHN	05	1115E	1125	1115	N20	E50	.769	8530	9.2	10D	-N	2		1115	.69	1.00	1.70		
GRP 994	05	1242	1253	1244	N21	E52	.791	8530	9.4	11	1-				.68				2 2 2
ATHN	05	1241	1250	1243	N20	E49	.759	8530	9.2	9	-N	2		1243	.75	1.30	1.40		
MCMA	05	1243	1255	1245	N22	E54	.812	8530	9.6	12	-N		C	1245	.41	.70			E
	05	1640	1645	NO FLARE PATROL															
	05	1700	1710	NO FLARE PATROL															
	05	1735	1745	NO FLARE PATROL															
	05	1755	1830	NO FLARE PATROL															
GRP 995	05	1951	2011		N23	E40	.667	8530	8.8	20	1-				.64				1 1 1
HUAN	05	1951	2011D		N23	E40	.667	8530	8.8	20D	-F	1	P	2002	.72	.80			E
	05	2010	2225	NO FLARE PATROL															
GRP 996	05	2300	0100		S23	E01	.493	8528	6.0	120	1-				.23				1 1 1
IKOM	05	2300	0100		S23	E01	.493	8528	6.0	120	-F		V	2300	.72	.90		75	D
GRP 997	06	0046	0052	0049	N21	E43	.695	8530	9.3	6	1-				.28				1 1 1
CULG	06	0046	0052D	0049	N21	E43	.695	8530	9.3	6D	-N		P	0049	.31	.40			
GRP 998	06	0209	0224	0220	N23	E35	.609	8530	8.7	15	1-				2.39				1 1 1
MITK	06	0209	0224	0220	N23	E35	.609	8530	8.7	15	1F		C	0220	2.99	3.80		120	

SOLAR FLARES

REVISED

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-PORT-ANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	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. %	
	06	0305	0325	NO FLARE PATROL															
	06	0340	0405	NO FLARE PATROL															
	06	0410	0500	NO FLARE PATROL															
GRP 999	06	0730	0815		N21	E41	.672	8530	9.4	45	1-				1.71				1 1 1
BUCA	06	0730E	0815D		N21	E41	.672	8530	9.4	45D	1F		C	0735	2.22	3.00			
GRP 1000	06	0749	0823		N22	E32	.567	8530	8.7	34	1-				.77				1 1 1
BUCA	06	0749E	0823D		N22	E32	.567	8530	8.7	34D	-F		C	0805	1.10	1.40			D
GRP 1001	06	0835	1017	1011	N22	E33	.580	8530	8.8	102	1-				.47				2 2 2
BUCA	06	0835E	1013D		N22	E32	.567	8530	8.8	98D	-N		C	0839	.89	1.10			D
ATHN	06	1010E	1017	1011	N21	E33	.575	8530	8.9	7D	-N	2		1011	.33	1.30	.40		
GRP 1002	06	0841	0856		N21	E41	.672	8530	9.4	15	1-				2.66				1 1 1
BUCA	06	0841E	0856D		N21	E41	.672	8530	9.4	15D	1F		C	0845	3.32	4.50			E
GRP 1003	06	1040	1046	1042	N18	E55	.817	8530	10.6	6	1-				.42				2 2 2
ATHN	06	1040E	1046	1042	N21	E53	.801	8530	10.4	6D	-N	2		1042	.33	1.80	.50		
MONT	06	1040	1046		N15	E57	.834	8530	10.7	6	-B		C	1041	.50	.70			
GRP 1004	06	1105	1110	1106	N21	E32	.562	8530	8.9	5	1-				.32				1 1 1
ATHN	06	1105E	1110	1106	N21	E32	.562	8530	8.9	5D	-N	2		1106	.33	.40	1.40		
GRP 1005	06	1537	1704	1548	N22	E37	.628	8530	9.4	87	1+				3.79				4 4 4
SACP	06	1533	1749D	1603	N24	E36	.626	8530	9.3	136D	2N		P		4.93	5.43			
CAPS	06	1539E	1555D		N23	E40	.667	8530	9.7	16D	2N	1		1547	4.80	5.70		188	C
HUAN	06	1539	1623		N22	E36	.616	8530	9.4	44	1F	1	C	1600	2.11	2.28			E
MCMA	06	1539	1700	1548	N20	E35	.595	8530	9.3	81	1B		C	1548	2.58	3.20			F
GRP 1006	06	1602	1750	1609	S22	W14	.524	8528	5.6	108	1-				1.07				1 1 1
SACP	06	1602	1750	1609	S22	W14	.524	8528	5.6	108	-F		C		1.19	1.23			
GRP 1007	06	1900	1955	1917	N22	E25	.480	8530	8.7	55	1-				.40				1 1 1
LOCK	06	1900	1955	1917	N22	E25	.480	8530	8.7	55	-F		C	1917	.40	.50		10	
GRP 1008	06	2010	2041	2017	N20	E32	.557	8530	9.2	31	1-				.50				1 1 1
LOCK	06	2010	2041	2017	N20	E32	.557	8530	9.2	31	-N		C	2017	.50	.60		10	
GRP 1009	06	2220	2245	2228	S24	W12	.539	8528	6.0	25	1-				.50				1 1 1
LOCK	06	2220	2245	2228	S24	W12	.539	8528	6.0	25	-F		C	2228	.50	.60		10	
	07	0425	0435	NO FLARE PATROL															
GRP 1010	07	0726	0809		N29	E78	.972	8536	13.2	43	1-				1.09				1 1 1
BUCA	07	0726E	0809D		N29	E78	.972	8536	13.2	43D	1N		C	0733	1.55				
GRP 1011	07	0737	0859		S22	W16	.537	8528	6.1	82	1-				1.71				1 1 1
BUCA	07	0737E	0859D		S22	W16	.537	8528	6.1	82D	1F		C	0819	2.22	2.60			
GRP 1012	07	0915	0930	0918	S24	W22	.605	8528	5.7	15	1-				.73				4 4 4
ARCE	07	0915	0920	0917	S24	W21	.597	8528	5.8	5	-N		C	0917	.38	.50			HCD
UCCL	07	0915	0923	0917	S24	W23	.613	8528	5.7	8	-N		C	0917	.31	.60			E
ATHN	07	0915E	0925	0917	S26	W20	.613	8528	5.9	10D	-N	2		0917	.99	1.20	1.70		
BUCA	07	0915E	0953D	0919	S22	W24	.600	8528	5.6	38D	1B		C	0919	1.77	2.20			
GRP 1013	07	1253	1300	1254	S23	W18	.563	8528	6.2	7	1-				.73				1 1 1
MCMA	07	1253	1300	1254	S23	W18	.563	8528	6.2	7	-N		C	1254	.52	.60			E
GRP 1014	07	2007	2022	2013	N19	E16	.342	8530	9.0	15	1-				.19				1 1 1
LOCK	07	2007	2022	2013	N19	E16	.342	8530	9.0	15	-F		C	2013	.20	.21		10	
GRP 1015	07	2314	2324	2317	N21	E18	.386	8530	9.3	10	1-				.40				1 1 1
LOCK	07	2314	2324	2317	N21	E18	.386	8530	9.3	10	-F		C	2317	.40	.50		10	
GRP 1016	08	0328	0349	0329	N21	E13	.331	8530	9.1	21	1-				.62				1 1 1
HALE	08	0328	0349	0329	N21	E13	.331	8530	9.1	21	-N	1	C	0329	.52	.53			V
GRP 1017	08	0329	0339	0333	N19	E66	.908	8536	13.1	10	1-				.25				1 1 1
HALE	08	0329	0339	0333	N19	E66	.908	8536	13.1	10	-N	1	C	0333	.21				
GRP 1018	08	0334	0348	0339	N25	E21	.460	8530	9.7	14	1-				.24				1 1 1
HALE	08	0334	0348	0339	N25	E21	.460	8530	9.7	14	-N	2	C	0339	.10	.11			
GRP 1019	08	0338	0354	0341	N22	E03	.274	8530	8.4	16	1-				.31				1 1 1
HALE	08	0338	0354	0341	N22	E03	.274	8530	8.4	16	-N	3	C	0341	.26	.30			
	08	0415	0500	NO FLARE PATROL															
GRP 1020	08	0612	0629	0615	N22	E17	.386	8530	9.5	17	1-				1.99				3 3 3
SIBE	08	0612	0625	0614	N23	E16	.386	8530	9.5	13	1F		C	0614	2.85	3.40		53	E
MANI	08	0612E	0627D	0615	N21	E18	.387	8530	9.6	15D	-N	2		0615	.52	.56			
ATHN	08	0612E	0635D	0617	N23	E17	.396	8530	9.5	23D	1N	1		0617	2.64	2.80	1.70		
GRP 1021	08	0700	0718		S22	W28	.635	8528	6.2	18	1-				.46				1 1 1
BUCA	08	0700E	0718D		S22	W28	.635	8528	6.2	18D	-N		C	0700	.66	.80			B
GRP 1022	08	0905	0911	0907	N20	E11	.298	8530	9.2	6	1-				.18				1 1 1
MANI	08	0905	0911	0907	N20	E11	.298	8530	9.2	6	-N	2		0907	.21	.22			
GRP 1023	08	0916	0939		N21	E13	.331	8530	9.4	23	1-				1.71				1 1 1
BUCA	08	0916E	0939D		N21	E13	.331	8530	9.4	23D	1N		C	0920	2.22	2.30			
GRP 1024	08	1014	1018		N20	E08	.271	8530	9.0	4	1-				.39				1 1 1
BUCA	08	1014E	1018D		N20	E08	.271	8530	9.0	4D	-N		P	1015	.56	.60			
GRP 1025	08	1556	1615	1600	N20	E10	.288	8530	9.4	19	1-				.50				1 1 1
LOCK	08	1556	1615	1600	N20	E10	.288	8530	9.4	19	-F		C	1600	.50	.60		10	
GRP 1026	08	1726	1828	1730	N24	E08	.345	8530	9.3	62	1-				1.25				1 1 1
HALE	08	1726	1828D	1730	N25	E08	.345	8530	9.3	62D	-B	2	P	1730	.83	.90			
GRP 1027	08	1751	1800	1757	N20	E00	.236	8530	8.7	9	1-				.18				1 1 1
HALE	08	1751	1800	1757	N20	E00	.236	8530	8.7	9	-N	1	C	1757	.15	.20			

SOLAR FLARES

REVISED
OCTOBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 OCT																	
GRP 1028	08	1808	1812	1810	N23	E01	.287	8530	8.8	4	1-				.12				1 1 1
HALE	08	1808	1812	1810	N23	E01	.287	8530	8.8	4	-F	3	C	1810	.10	.11			T
GRP 1029	08	1959	2009	2004	N24	E00	.303	8530	8.8	10	1-				.49				1 1 1
HALE	08	1959	2009	2004	N24	E00	.303	8530	8.8	10	-N	2	C	2004	.41	.43			T
GRP 1030	08	2045	2113	2100	N24	E00	.303	8530	8.9	28	1-				.31				1 1 1
HALE	08	2045	2113	2100	N24	E00	.303	8530	8.9	28	-N	2	C	2100	.26	.30			T
GRP 1031	08	2055	2111	2102	N13	E03	.127	8530	9.1	16	1-				.19				1 1 1
LOCK	08	2055	2111	2102	N13	E03	.127	8530	9.1	16	-F		C	2102	.20	.21		10	
GRP 1032	08	2215	2241	2227	N24	E00	.303	8530	8.9	26	1-				.25				1 1 1
HALE	08	2215	2241	2227	N24	E00	.303	8530	8.9	26	-N	1	C	2227	.21	.22			T
GRP 1033	08	2255	2313	2302	N24	E01	.304	8530	9.0	18	1-				.59				2 2 2
HALE	08	2254	2316D	2302	N24	E01	.304	8530	9.0	22D	-N	2	P	2302	.41	.42			T
SACP	08	2255	2309	2302	N23	E01	.287	8530	9.0	14	-F		C		.77	.75			
GRP 1034	08	2256	2319	2259	N12	E01	.100	8530	9.0	23	1-				.61				1 1 1
LOCK	08	2256	2319	2259	N12	E01	.100	8530	9.0	23	-N		C	2259	.60	.62		20	
GRP 1035	08	2302	2317	2307	N27	E12	.400	8530	9.9	15	1-				1.58				4 4 4
LOCK	08	2258	2325	2308	N28	E13	.421	8530	9.9	27	-N		C	2308	1.40	1.50		20	
HALE	08	2302	2316D	2307	N28	E10	.401	8530	9.7	14D	-B	1	C	2307	1.03	1.00			F
VORO	08	2303	2309	2305	N29	E13	.435	8530	9.9	6	1F		C	2305	2.61	3.03		52	EJ
MANI	08	2304	2317	2308	N24	E13	.368	8530	9.9	13	-F	2		2308	.77	.83			
GRP 1036	09	0036	0058	0041	N23	W01	.288	8530	9.0	22	1-				.25				1 1 1
HALE	09	0036	0058	0041	N23	W01	.288	8530	8.9	22	-N	1	C	0041	.21	.21			
GRP 1037	09	0122	0140	0128	N24	W01	.305	8530	9.0	18	1-				.31				1 1 1
HALE	09	0122	0140	0128	N24	W01	.305	8530	9.0	18	-N	1	C	0128	.26	.30			
	09	0355	0405	NO FLARE PATROL															
GRP 1038	09	0755	0821	0800	N20	W00	.237	8530	9.3	26	1-				.72				3 3 3
BUCA	09	0754E	0825D		N21	W01	.254	8530	9.3	31D	-N		C	0801	1.55	1.60			E
MONT	09	0755	0830	0800	N20	E01	.238	8530	9.4	35	-F		C	0800	.61	.60			
MANI	09	0759E	0812		N20	E01	.238	8530	9.4	13D	-N	3		0800	.52	.54			
GRP 1039	09	0827	0849		S22	W44	.783	8528	6.1	22	1-				.77				1 1 1
BUCA	09	0827E	0849D		S22	W44	.783	8528	6.1	22D	-F		C	0833	1.10	1.80			
GRP 1040	09	0912	1023	0919	N21	W03	.259	8530	9.2	71	1+				2.10				5 5 2
BUCA	09	0904E	1002D	0919	N22	W02	.273	8530	9.2	58D	1B		C	0919	3.32	3.40			F
ISTA	09	0913	0940		N22	W04	.279	8530	9.1	27	-F								
KAND	09	0915	1201		N19	W01	.221	8530	9.3	166	3N								C
MANI	09	0916E	0926D		N22	W04	.279	8530	9.1	10D	-N	1		0919	1.55	1.62			
ONDR	09	0916	0927		N21	W02	.256	8530	9.2	11	1F		V	0917			1.80		CFHJ
GRP 1041	09	1045	1154	1103	N21	E00	.254	8530	9.4	69	2				12.19				8 7 6
WEND	09	1045	1150	1102	N20	E02	.239	8530	9.6	65	3N				21.66				
CAPS	09	1046E	1145		N21	W01	.254	8530	9.4	59D	3N	3		1104	12.00	12.60		260	CFL
ARCE	09	1047E	1113D		N20	W00	.237	8530	9.4	26D	2B		P	1113	5.21	5.30			F
CATA	09	1048E	1140D	1105	N21	W00	.254	8530	9.5	52D	2B			1105	5.05	5.20		252	
KIEV	09	1050E	1205D	1101	N20	E01	.238	8530	9.5	75D	3N		C	1101	20.42	20.50		70	I
ONDR	09	1058E	1135		N21	W03	.259	8530	9.2	37D	1F		V	1112			2.00		CFJ
ATHN	09	1103E	1151D		N20	E04	.246	8530	9.8	48D	2N	1		1123	9.57	9.80	1.80		
KHAR	09	1106E	1215D		N22	W00	.271	8530	9.5	69D	4N		V	1110	37.44	38.90	2.00		DHILO
GRP 1042	09	1519	1601	1531	N19	W06	.242	8530	9.2	42	1-				1.23				3 3 3
SACP	09	1514	1619	1539	N20	W05	.251	8530	9.3	65	-N		C		1.70	1.67			
MCMA	09	1524	1543	1531	N19	W07	.249	8530	9.1	19	-N		C	1531	.46	.50			E
LOCK	09	1529E	1600	1530U	N18	W06	.227	8530	9.2	31D	-N		C	1530	1.40	1.44		20	
GRP 1043	09	1722	1733	1726	S25	W53	.868	8528	5.7	11	1-				.50				1 1 1
LOCK	09	1722	1733	1726	S25	W53	.868	8528	5.7	11	-F		C	1726	.50	1.00		10	J
GRP 1044	09	1804	1810	1807	S25	W54	.876	8528	5.7	6	1-				.40				1 1 1
LOCK	09	1804	1810	1807	S25	W54	.876	8528	5.7	6	-N		C	1807	.40	.70		10	J
GRP 1045	09	1807	1837	1819	N19	E04	.230	8530	10.1	30	1-				.94				1 1 1
LOCK	09	1807	1837	1819	N19	E04	.230	8530	10.1	30	-F		C	1819	.90	1.00		10	
GRP 1046	09	1847	1906	1857	S24	W56	.886	8528	5.6	19	1-				.94				1 1 1
LOCK	09	1847	1906	1857	S24	W56	.886	8528	5.6	19	-F		C	1857	.90	1.70		10	L
GRP 1047	09	1947	2015	1955	S30	W90	1.002	8527	3.1	28	1-				.89				1 1 1
LOCK	09	1947	2015	1955	S30	W90	1.002	8527	3.1	28	-F		C	1955	1.00	1.90		10	
GRP 1048	09	1950	2021	2000	S24	W56	.886	8528	5.6	31	1				1.39				1 1 1
SACP	09	1950	2021	2000	S24	W56	.886	8528	5.6	31	1F		C		1.54	2.42			
GRP 1049	09	2050	2107	2055	S23	W58	.897	8528	5.5	17	1-				.82				1 1 1
LOCK	09	2050	2107	2055	S23	W58	.897	8528	5.5	17	-F		C	2055	.80	1.50		10	J
GRP 1050	09	2106	2151	2129	S24	W57	.893	8528	5.6	45	1				1.67				2 2 2
SACP	09	2103	2153	2128	S25	W57	.896	8528	5.6	50	1F		C		1.88	3.01			
LOCK	09	2109	2148	2130	S24	W57	.893	8528	5.6	39	1F		C	2130	1.50	3.00		10	J
GRP 1051	09	2157	2230	2207	N22	E12	.334	8530	10.8	33	1-				.40				1 1 1
LOCK	09	2157	2230	2207	N22	E12	.334	8530	10.8	33	-F		C	2207	.40	.42		10	J
GRP 1052	09	2254	2318	2305	S24	W56	.886	8528	5.8	24	1-				1.01				3 3 3
SACP	09	2242	2318	2305	S24	W58	.900	8528	5.6	36	1N		C		1.95	3.20			
LOCK	09	2256	2320	2303	S24	W59	.906	8528	5.5	24	-N		C	2303	.90	1.90		10	J
MANI	09	2304	2317	2308	S23	W51	.846	8528	6.1	13	-N	3		2308	.41	.74			

SOLAR FLARES

REVISED
OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
					APPROX.		CENTRAL	MCMATH	CMP										
	DATE	START	END	MAX. PHASE	LAT.	MER. DIST.	DISTANCE	PLAGE REGION	DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 OCT																		
GRP 1053	10	0208	0230	0213	N20	W04	.247	8530	9.8	22	1-				.78				2 2 2
MITK	10	0208	0228	0213	N21	W03	.260	8530	9.9	20	-N		C	0213	1.13	1.20		160	
MANI	10	0211E	0231		N20	W05	.252	8530	9.7	20D	-F	3		0212	.83	.86			
GRP 1054	10	0226	0330	0243	N18	W03	.210	8530	9.9	64	1-				.43				1 1 1
MITK	10	0226	0330	0243	N18	W03	.210	8530	9.9	64	-N		C	0243	.62	.60		140	
GRP 1055	10	0349	0400	0350	N24	W13	.370	8530	9.2	11	1-				1.27				2 1 1
MITK	10	0349	0354D	0350	N23	W14	.367	8530	9.1	5D	-N		C	0350	1.75	1.90		150	
MANI	10	0351E	0400		N25	W12	.375	8530	9.3	9D	-B	2		0353	1.24	1.35			
GRP 1056	10	0705	0734		N21	E68	.922	8544	15.4	29	1-								1 1 0
KAND	10	0705E	0734D		N21	E68	.922	8544	15.4	29D	-N								PV
GRP 1057	10	0730	0749		S22	W55	.873	8528	6.2	19	1-				2.58				1 1 1
BUCA	10	0730E	0749D		S22	W55	.873	8528	6.2	19D	1N		C	0735	3.22	3.20			
GRP 1058	10	0835	0845		N19	W18	.369	8530	9.0	10	1-				.51				1 1 1
ARCE	10	0835E	0845D		N19	W18	.369	8530	9.0	10D	-N		C	0835	.51	.50			E
GRP 1059	10	1335	1406	1342	N23	E63	.889	8544	15.3	31	1-				.50				2 2 2
MCMA	10	1335	1405	1342	N23	E63	.889	8544	15.3	30	-F		C	1342	.31	.60			E
SACP	10	1335	1407	1359	N23	E62	.882	8544	15.2	32	-F		C		.60	.91			
	10	1840	1845	NO FLARE PATROL															
GRP 1060	10	1848	1914	1902	N23	E60	.866	8544	15.3	26	1-				.61				1 1 1
SACP	10	1848E	1914	1902	N23	E60	.866	8544	15.3	26D	-F		P		.68	1.00			
GRP 1061	10	2015	2056		S24	W60	.912	8528	6.3	41	1-				.47				1 1 1
MCMA	10	2015E	2056D		S24	W60	.912	8528	6.3	41D	-N		C	2023	.31	.70			D
GRP 1062	10	2121	2155	2129	N20	E84	.991	8546	17.2	34	1-				.31				1 1 1
SACP	10	2121	2155	2129	N20	E84	.991	8546	17.2	34	-N		C		.34				
GRP 1063	10	2206	2215	2210	N23	W27	.514	8530	8.9	9	1-				.35				2 2 2
SACP	10	2206	2215	2210	N23	W26	.502	8530	9.0	9	-N		C		.51	.52			
MANI	10	2208E	2214		N22	W28	.519	8530	8.8	6D	-N	2		2210	.26	.30			
	11	0005	0020	NO FLARE PATROL															
	11	0030	0035	NO FLARE PATROL															
GRP 1064	11	0729	0803	0746	S22	W72	.970	8528	5.9	34	1+				1.09				1 1 1
BUCA	11	0729E	0803D	0746	S22	W72	.970	8528	5.9	34D	1B		P	0746	1.55				
GRP 1065	11	0741	0847		N23	E54	.815	8544	15.4	66	1-				.93				1 1 1
BUCA	11	0741E	0847D		N23	E54	.815	8544	15.4	66D	1N		C	0819	1.33	2.30			
GRP 1066	11	0813	0901	0814	S24	W71	.968	8528	6.0	48	1				1.27				2 2 2
ATHN	11	0813E	0820	0814	S25	W70	.965	8528	6.1	7D	-N	2		0814	.76		2.00		
BUCA	11	0813E	0942D	0839	S22	W72	.970	8528	5.9	89D	1B		C	0839	2.22				
GRP 1067	11	0925	0942		N23	E54	.815	8544	15.4	17	1-				1.42				1 1 1
BUCA	11	0925E	0942D		N23	E54	.815	8544	15.4	17D	-N		P	0940	1.91	1.90			
GRP 1068	11	1159	1206	1201	N22	W10	.318	8530	10.7	7	1-				.92				1 1 1
ATHN	11	1159	1206	1201	N22	W10	.318	8530	10.7	7	-F	2		1201	.83	.90	1.20		
GRP 1069	11	1255	1314	1303	N23	E50	.776	8544	15.3	19	1-				.58				1 1 1
MCMA	11	1255E	1314	1303	N23	E50	.776	8544	15.3	19D	-N		C	1303	.41	.60			E
	11	1725	1735	NO FLARE PATROL															
	11	1835	1840	NO FLARE PATROL															
GRP 1070	11	1847	1854	1849	S02	E62	.887	8545	16.4	7	1-				.30				2 2 2
HUAN	11	1847	1853		S02	E62	.887	8545	16.4	6	-F	1	C	1850	.25	.38			D
MCMA	11	1847	1854	1849	S02	E62	.887	8545	16.4	7	-B		C	1849	.26	.60			D
GRP 1071	11	1932	1947	1938	S24	W84	.999	8528	5.5	15	1-				.46				3 3 3
LOCK	11	1930	1948	1935	S23	W85	.999	8528	5.4	18	-N		C	1935	.40	1.60		10	
SACP	11	1931	1946	1940	S24	W80	.993	8528	5.8	15	-N		C		.94				
HUAN	11	1934	1946		S24	W88	1.000	8528	5.2	12	-N	1	C	1940	.31				D
	11	2315	0000	NO FLARE PATROL															
	12	0010	0030	NO FLARE PATROL															
	12	0400	0425	NO FLARE PATROL															
GRP 1072	12	0838	0848		S21	W90	1.001	8528	5.6	10	1				.15				1 1 1
ARCE	12	0838E	0848D		S21	W90	1.001	8528	5.6	10D	-N		C	0838	.15				
GRP 1073	12	0903	0940	0925	N23	E80	.980	8549	18.4	37	1				.56				1 1 1
ARCE	12	0903E	0940D	0925	N23	E80	.980	8549	18.4	37D	-N		C	0925	.15				D
GRP 1074	12	0953	1025	1000	N25	E90	.999	8549	19.2	32	1-				.38				2 2 1
ARCE	12	0953E	0953D		N25	E90	.999	8549	19.2		1N		P	0953	.38				
KHAR	12	0958E	1025D	1000	N25	E89	.998	8549	19.1	27D	1F		V	1006			2.80		H
GRP 1075	12	1031	1038	1032	N20	E70	.935	8546	17.7	7	1-				.35				1 1 1
ATHN	12	1031	1038	1032	N20	E70	.935	8546	17.7	7	-N	2		1032	.33				
GRP 1076	12	1132	1156	1142	N20	E71	.940	8546	17.8	24	1-				1.02				5 2 1
ATHN	12	1132	1153	1141	N20	E69	.929	8546	17.7	21	1N	2		1141	.99				
KHAR	12	1142E	1153	1143	N22	E76	.965	8546	18.2	11D	1F		V	1150			2.80		DH
KAND	12	1145E	1146D		N17	E70	.934	8546	17.7	1D	2N			1145	3.15	5.80			
CAPS	12	1145E	1156D		N22	E70	.935	8546	17.7	11D	1F	1		1148	1.80			155	
UCCL	12	1151E	1200D		N20	E70	.935	8546	17.7	9D			P						BE
GRP 1077	12	1336	1358		N22	E69	.929	8546	17.7	22	1-				.40				1 1 1
MCMA	12	1336	1358		N22	E69	.929	8546	17.7	22	-N		C	1348	.26	.60			E
GRP 1078	12	1406	1430	1410	N22	E70	.935	8546	17.8	24	1-				.48				1 1 1
MCMA	12	1406	1430	1410	N22	E70	.935	8546	17.8	24	-N		C	1410	.31	.50			D

SOLAR FLARES

REVISED
OCTOBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	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. %	
GRP 1079	12	1441	1450	1443	N21	E69	.929	8546	17.8	9	1-				.49				3 3 3
MCMA	12	1440	1450	1443	N22	E70	.935	8546	17.9	10	-N		C	1443	.31	.50			D
ATHN	12	1441	1453	1442	N20	E68	.922	8546	17.7	12	-N	2		1442	.76		1.60		
HUAN	12	1442	1448		N21	E68	.923	8546	17.7	6	-F	1	C	1445	.25				D
GRP 1080	12	1506	1515	1508	N21	E68	.923	8546	17.7	9	1-				.52				2 2 2
ATHN	12	1505	1515	1508	N20	E68	.922	8546	17.7	10	-N	1		1508	.76		1.80		
HUAN	12	1507	1513D		N21	E68	.923	8546	17.7	6D	-F	1	P	1509	.31				D
GRP 1081	12	1521	1530	1523	N22	E70	.935	8546	17.9	9	1-				1.30				1 1 1
MCMA	12	1521	1530	1523	N22	E70	.935	8546	17.9	9	-N		C	1523	.83	.90			E
GRP 1082	12	1653	1708	1657	N22	E69	.929	8546	17.9	7	1-				.48				1 1 1
MCMA	12	1653	1700D	1657	N22	E69	.929	8546	17.9	7D	-N		C	1657	.26	.60			D
GRP 1083	12	1805	1832	1817	N22	E69	.929	8546	17.9	27	1-				1.20				1 1 1
MCMA	12	1805	1832	1817	N22	E69	.929	8546	17.9	27	-N		C	1817	.77	1.80			E
GRP 1084	12	1906	1917	1908	N09	E54	.805	8545	16.8	11	1-				.99				2 2 2
SACP	12	1905	1919	1908	N10	E53	.794	8545	16.8	14	-N		C		1.35	1.75			
MCMA	12	1906	1915	1908	N08	E54	.805	8545	16.8	9	-N		C	1908	.52	.90			E
GRP 1085	12	1915	1932	1918	N22	E68	.923	8546	17.9	17	1-				.63				1 1 1
MCMA	12	1915	1932	1918	N22	E68	.923	8546	17.9	17	-N		C	1918	.41	1.00			E
GRP 1086	12	1943	1950		N22	E68	.923	8546	17.9	7	1-				.63				1 1 1
MCMA	12	1943	1950D		N22	E68	.923	8546	17.9	7D	-N		C	1945	.41	1.00			E
GRP 1087	12	2052	2109	2055	N21	E61	.873	8546	17.4	17	1-				.81				2 2 2
MCMA	12	2051	2055D		N21	E65	.903	8546	17.7	4D	-F		P	2053	.31	.70			E
SACP	12	2052	2109	2055	N21	E57	.839	8546	17.1	17	-N		C		1.27	1.78			
GRP 1088	13	0430	0448	0432	N21	E66	.910	8546	18.1	18	2				1.87				1 1 1
MITK	13	0430	0448D	0432	N21	E66	.910	8546	18.1	18D	2N		C	0432	2.37			230	
GRP 1089	13	0607	0616	0610	N13	E56	.825	8546	17.5	9	1-				.17				1 1 1
MANI	13	0607	0616D	0610	N13	E56	.825	8546	17.5	9D	-N	2		0610	.21	.35			
GRP 1090	13	0621	0635	0626	N09	E47	.727	8545	16.8	14	1-				.33				2 2 2
MITK	13	0621	0634	0626	N08	E47	.727	8545	16.8	13	-N		C	0626	.62	.90		140	E
MANI	13	0625E	0635	0626	N10	E47	.727	8545	16.8	10D	-N	2		0626	.26	.38			
GRP 1091	13	0705	0710	0706	N08	E47	.727	8545	16.8	5	1-				.32				1 1 1
ATHN	13	0705E	0710	0706	N08	E47	.727	8545	16.8	5D	-N	1		0706	.33	.50	1.50		
GRP 1092	13	0716	0809		N20	E61	.872	8546	17.9	53	1-								2 2 0
ISTA	13	0710E	0835		N20	E62	.880	8546	17.9	85D	-N								
KAND	13	0721	0743		N20	E60	.864	8546	17.8	22	-N								C
GRP 1093	13	0838	0854	0842	N25	W50	.782	8530	9.6	16	1-				.78				1 1 1
MANI	13	0838E	0854D	0842	N25	W50	.782	8530	9.6	16D	-F	2		0842	.88	.96			
GRP 1094	13	0906	0925	0907	N20	E58	.847	8546	17.7	19	1-				1.24				6 4 4
ATHN	13	0901	0925	0908	N18	E56	.828	8546	17.6	24	1N	2		0908	1.65	3.10	1.90		
CAPS	13	0903E	0922D		N20	E53	.801	8546	17.4	19D	-F	3		0914	.90	1.50		150	
KIEV	13	0905E	0915D	0906	N18	E62	.879	8546	18.0	10D	1F		C	0906	2.06			60	EI
ARCE	13	0907E	0921D		N20	E54	.811	8546	17.4	14D	-N		C	0920	.35	.60			
ISTA	13	0910	0925		N21	E58	.848	8546	17.7	15	-N								
MANI	13	0915E	0925D	0920	N20	E62	.880	8546	18.0	10D	1F	1		0920	2.27	4.27			
GRP 1095	13	1005	1024	1007	N13	E60	.861	8546	17.9	19	1-				.43				2 1 1
ATHN	13	1005	1020	1007	N11	E57	.834	8546	17.7	15	-N	2		1007	.43	.80	1.50		
KHAR	13	1018E	1028D		N14	E62	.878	8546	18.1	10D	1F		V	1024	2.84	4.10	1.50		
GRP 1096	13	1047	1054	1049	N20	E62	.880	8546	18.1	7	1-				.68				4 4 3
KIEV	13	1045E	1051D	1047	N19	E66	.909	8546	18.4	6D	1F		C	1047	1.03			65	DI
KHAR	13	1047	1052	1048	N19	E63	.887	8546	18.2	5	1N		V	1048			2.80		DH
CAPS	13	1047E	1053		N20	E58	.847	8546	17.8	6D	-N	3		1050	.40	.70		166	C
ATHN	13	1048	1056	1051	N20	E60	.864	8546	18.0	8	-N	2		1051	.72	1.60	1.90		
GRP 1097	13	1150	1200	1151	N20	E56	.830	8546	17.7	10	1-				.60				2 2 2
CAPS	13	1149E	1202D		N19	E52	.790	8546	17.4	13D	-N	3		1152	.80	1.30		160	
ATHN	13	1150	1158	1151	N20	E59	.856	8546	17.9	8	-N	2		1151	.39	.80	1.60		
GRP 1098	13	1332	1358	1339	N22	E58	.849	8546	17.9	26	1-				1.32				6 5 5
LOCA	13	1328	1350	1334	N22	E60	.866	8546	18.1	22	-N		V	1334	.85	1.70			
ATHN	13	1335	1353	1338	N20	E58	.847	8546	17.9	18	-N	2		1338	.86	1.80	1.90		
ZURI	13	1337E	1353	1343	N22	E61	.874	8546	18.1	16D	1N		P	1343	1.80	3.80			
CAPS	13	1342E	1354		N21	E60	.865	8546	18.1	12D	1B	3		1347	2.00	3.80		204	C
SACP	13	1330	1410	1341	N22	E58	.849	8546	17.9	40	1N		C		1.64	2.34			
MONT	13	1335	1410	1337	N23	E52	.797	8546	17.5	35	1N		C	1337	1.90	2.50			
GRP 1099	13	1330	1402	1340	N09	E42	.666	8545	16.7	32	1-				1.00				1 1 1
SACP	13	1330	1402	1340	N09	E42	.666	8545	16.7	32	-N		C		1.11	1.26			
GRP 1100	13	1546	1618	1558	N08	E43	.678	8545	16.9	32	1-				.76				1 1 1
SACP	13	1546	1618	1558	N08	E43	.678	8545	16.9	32	-F		C		.84	.96			
GRP 1101	13	1645	1750	1709	N18	E52	.789	8546	17.6	65	1-				1.44				2 2 2
LOCK	13	1640	1740	1708	N17	E53	.798	8546	17.7	60	-N		C	1708	1.00	1.70		20	
SACP	13	1649	1800	1710	N20	E51	.781	8546	17.5	71	1N		C		2.03	2.60			
GRP 1102	13	1740	1752	1746	N20	E47	.739	8546	17.3	12	1				1.25				2 2 2
LOCK	13	1740	1752	1744	N19	E48	.748	8546	17.3	12	1N		C	1744	1.50	2.30		20	
SACP	13	1740	1756E	1748U	N22	E46	.733	8546	17.2	16D	-F		P		.93	1.11			

SOLAR FLARES

REVISED
OCTOBER 1966

OBSERVATORY	OBSERVED UT DATE 1966 OCT	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
GRP 1103	13	1815	1844	1817	N21	E52	.793	8546	17.7	29	1-				.44				3 2 2
LOCK	13	1814	1827	1817	N18	E57	.837	8546	18.0	13	-N		C	1817	.50	.90		10	
SACP	13	1815	1840	1820	N25	E50	.782	8546	17.5	25	-N		C		.42	.53			
HALE	13	1821E	1905U	1905U	N21	E50	.773	8546	17.5	44U	-B	2	P	1905	.31	.50			
GRP 1104	13	1912	1925	1915	N21	E64	.896	8546	18.6	13	1-				.60				1 1 1
LOCK	13	1912	1925	1915	N21	E64	.896	8546	18.6	13	-F		C	1915	.60	1.30		10	
GRP 1105	13	2014	2037	2022	N08	E40	.639	8545	16.8	23	1-				.93				2 2 2
SACP	13	2013	2043	2024	N10	E40	.640	8545	16.8	30	-F		C		1.01	1.13			
LOCK	13	2015	2030	2020	N06	E40	.640	8545	16.8	15	-N		C	2020	.90	1.20		10	
GRP 1106	13	2116	2135	2122	N21	W70	.935	8530	8.6	19	1-				.47				1 1 1
LOCK	13	2116	2135	2122	N21	W70	.935	8530	8.6	19	-F		C	2122	.50	.70		10	
GRP 1107	14	0031	0056	0038	N22	E52	.795	8546	17.9	25	1-				.68				2 2 2
HALE	14	0027E	0107	0036	N23	E52	.797	8546	17.9	40D	-B	2	P	0036	.52	.90			
MANI	14	0034	0045	0040	N20	E51	.782	8546	17.8	11	-N	2		0040	.83	1.35			
GRP 1108	14	0151	0206	0201	N21	W71	.941	8530	8.8	15	1-				.31				1 1 1
HALE	14	0151	0206	0201	N21	W71	.941	8530	8.8	15	-N	1	C	0201	.26				
GRP 1109	14	0154	0224	0201	N21	E48	.753	8546	17.7	30	1-				.12				1 1 1
HALE	14	0154	0224	0201	N21	E48	.753	8546	17.7	30	-N	2	C	0201	.10	.20			
GRP 1110	14	0244	0257	0257	N22	E42	.690	8546	17.3	13	1-				.37				1 1 1
HALE	14	0244	0257D	0257U	N22	E42	.690	8546	17.3	13D	-N	2	P	0257	.31	.40			
GRP 1111	14	0522	0544	0530	N21	E50	.773	8546	18.0	22	1-				.86				3 3 3
TACH	14	0522	0543	0532	N23	E52	.797	8546	18.1	21	1B		C	0532	1.37	2.20	7.40	145	DHX
ATHN	14	0524E	0544	0525	N18	E47	.736	8546	17.8	20D	-B	2		0525	.33	.70	2.00		
MANI	14	0525E	0541D	0532	N21	E51	.783	8546	18.1	16D	-B	2		0532	1.24	1.97			
GRP 1112	14	0638	0734	0639	N20	E45	.718	8546	17.7	56	1-				.71				1 1 1
ABST	14	0638E	0734D	0639	N20	E45	.718	8546	17.7	56D	-F		C	0639	.90	1.03		69	D
GRP 1113	14	0735	0835		N26	W60	.870	8530	9.8	60	1+				1.29				1 1 1
BUCA	14	0735E	0835D		N26	W60	.870	8530	9.8	60D	1B		P	0740	1.77	3.50			
GRP 1114	14	0833	0847	0840	N22	E51	.785	8546	18.2	14	1-				.51				6 5 5
ARCE	14	0820E	0845D		N21	E49	.763	8546	18.0	25D	-B		C	0840	.69	1.10			
ATHN	14	0835	0846	0837	N24	E52	.799	8546	18.3	11	-B	2		0837	.66	1.10	2.00		
UCCL	14	0838	0839D		N21	E50	.773	8546	18.1	1D			P						E
CATA	14	0838E	0848D	0842	N24	E48	.760	8546	18.0	10D	-N			0842	.15	.20		199	
MONT	14	0838	0848	0840	N21	E50	.773	8546	18.1	10	-N		C	0840	.63	.80			
CAPS	14	0839E	0845		N23	E55	.825	8546	18.5	6D	-B	3		0841	.40	.70		200	C
GRP 1115	14	1151	1205	1155	N09	E31	.513	8545	16.8	14	1-				1.09				4 4 3
NERA	14	1150	1158		N09	E32	.528	8545	16.9	8	1	2							
CAPS	14	1151	1206		N10	E31	.514	8545	16.8	15	-N	3		1156	1.20	1.40		182	G
ATHN	14	1151	1207	1153	N06	E31	.512	8545	16.8	16	-B	2		1153	1.16	1.30	2.00		
CATA	14	1154E	1207D	1156	N10	E31	.514	8545	16.8	13D	-N			1156	.80	.90		190	
GRP 1116	14	1250	1403	1309	N21	E42	.686	8546	17.7	73	2-				5.15				7 4 4
CAPS	14	1250	1358		N23	E40	.671	8546	17.5	68	2B	3		1317	5.40	7.60		288	I
WEND	14	1250	1358		N22	E42	.690	8546	17.7	68	2N				8.25				
ATHN	14	1300E	1339	1309	N23	E47	.747	8546	18.1	39D	1N	2		1309	2.44	3.70	2.00		
MCMA	14	1302E	1343D		N21	E41	.675	8546	17.6	41D	2B		P	1322	3.61	5.10			F
SACP	14	1319E	1455	1346U	N20	E39	.648	8546	17.5	96D	1N		P		4.36	4.91			
ZURI	14	1334E	1347		N20	E43	.695	8546	17.8	13D	3F		P	1345	13.25	18.40			
MONT	14	1346E	1415D		N20	E42	.683	8546	17.7	29D	2B		C	1346	3.72	4.30			
GRP 1117	14	1525	1529	1527	N19	E44	.704	8546	17.9	4	1-				.50				1 1 1
LOCK	14	1525	1529	1527	N19	E44	.704	8546	17.9	4	-F		C	1527	.50	.70		10	
GRP 1118	14	1812	1827	1815	N19	E41	.669	8546	17.8	15	1-				.50				1 1 1
LOCK	14	1812	1827	1815	N19	E41	.669	8546	17.8	15	-F		C	1815	.50	.70		10	
GRP 1119	14	1929	1952	1935	N15	E61	.870	8548	19.4	23	1-				.55				2 2 2
LOCK	14	1928	1950	1933	N13	E61	.870	8548	19.4	22	-N		C	1933	.70	1.30		10	
SACP	14	1929	1954	1937	N16	E60	.862	8548	19.3	25	-F		C		.42	.61			
GRP 1120	14	2250	2316	2302	N09	E26	.438	8545	16.9	26	1-				1.41				2 2 2
LOCK	14	2250	2317	2302	N07	E25	.420	8545	16.8	27	-N		C	2302	1.40	1.50		20	
SACP	14	2301E	2315	2301	N10	E26	.439	8545	16.9	14D	-N		P		1.43	1.45			
GRP 1121	14	2324	2339	2330	N18	E31	.538	8546	17.3	15	1-				.12				1 1 1
HALE	14	2324E	2339D	2330	N18	E31	.538	8546	17.3	15D	-N	1	P	2330	.10	.11			
GRP 1122	14	2326	2338	2331	N24	W75	.961	8530	9.4	12	1-				.18				1 1 1
HALE	14	2326E	2338	2331	N24	W75	.961	8530	9.4	12D	-N	1	P	2331	.15				
GRP 1123	14	2352	0044	0016	N20	E34	.586	8546	17.5	52	1				1.44				3 2 2
SACP	14	2342	2355D	2355	N20	E34	.586	8546	17.5	13D	-F		P		.94	1.01			
LOCK	14	2350	0035U	0015	N18	E34	.578	8546	17.5	45U	1B		C	0015	1.80	2.20		30	
MANI	15	0005	0053	0018	N21	E35	.603	8546	17.6	48	-N	1		0018	1.44	1.83			
GRP 1124	15	0412	0448	0418	N21	E37	.628	8546	18.0	36	1-				2.38				1 1 1
MANI	15	0412	0448D	0418	N21	E37	.628	8546	18.0	36D	1N	2		0418	2.48	2.76			
	15	0450	0500	NO FLARE PATROL															
GRP 1125	15	0500	0603	0526	N20	E37	.624	8546	18.0	63	1				2.22				2 2 2
TACH	15	0500E	0611	0524	N20	E33	.574	8546	17.7	71D	1N		C		2.28	2.80	1.90	69	E
ATHN	15	0522E	0555	0528	N20	E40	.660	8546	18.2	33D	1N	2		0528	2.15	2.60	1.70		
GRP 1126	15	1346	1352	1348	N20	E35	.599	8546	18.2	6	1-				.50				1 1 1
ATHN	15	1346	1352	1348	N20	E35	.599	8546	18.2	6	-N	2		1348	.50	.60	1.60		

SOLAR FLARES

REVISED

OCTOBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 OCT																		
GRP 1127	15	1857	2033	1925	N21	E25	.478	8546	17.7	96	1+				3.15				4 3 3
LOCK	15	1850	2005	1920	N22	E25	.485	8546	17.7	75	1B		C	1920	2.50	2.80		30	
SACP	15	1852	2100	1930	N20	E23	.445	8546	17.5	128	2F		C		5.14	5.22			
HUAN	15	1909	1957D		N20	E25	.471	8546	17.7	48D	1F	1	P	1925	2.11	2.15			E
MCMA	15	1937E	1947D		N21	E26	.490	8546	17.8	10D	1B		P	1942	1.86	2.10			BF
GRP 1128	15	2236	2310	2240	N18	E23	.431	8546	17.7	34	1-				.71				1 1 1
LOCK	15	2236	2310	2240	N18	E23	.431	8546	17.7	34	-N		C	2240	.70	.80		20	
GRP 1129	15	2336	2348	2338	N19	E22	.424	8546	17.6	12	1-				.56				2 2 2
LOCK	15	2335	2350	2338	N18	E23	.431	8546	17.7	15	-N		C	2338	.70	.80		20	
MANI	15	2336	2346	2338	N20	E20	.407	8546	17.5	10	-N	2		2338	.46	.51			
	16	0135	0140	NO FLARE PATROL															
	16	0435	0445	NO FLARE PATROL															
GRP 1130	16	0723	0736	0725	N20	E18	.383	8546	17.7	13	1-				1.09				1 1 1
ATHN	16	0723	0736	0725	N20	E18	.383	8546	17.7	13	-N	2		0725	.99	1.10	1.80		
GRP 1131	16	0806	0822	0809	N21	E20	.417	8546	17.8	16	1-				1.09				2 1 1
ATHN	16	0806	0822	0809	N20	E18	.383	8546	17.7	16	-N	2		0809	.99	1.10	1.60		
CAPS	16	0810E	0820D		N21	E22	.441	8546	18.0	10D	-F	2		0819	1.20	1.30			
GRP 1132	16	1021	1024	1022	N20	E17	.371	8546	17.7	3	1-				.34				1 1 1
ATHN	16	1021	1024D	1022	N20	E17	.371	8546	17.7	3D	-N	2		1022	.33	.40	1.60		
GRP 1133	16	1108	1112	1111	N20	E17	.371	8546	17.7	4	1-				.90				1 1 1
ATHN	16	1108	1112D	1111	N20	E17	.371	8546	17.7	4D	-N	2		1111	.83	.90	1.60		
GRP 1134	16	1204	1251	1222	N20	E17	.371	8546	17.8	47	1				3.34				3 2 1
ATHN	16	1204	1251	1222	N19	E17	.361	8546	17.8	47	1N	2		1222	2.64	2.80	1.90		
CAPS	16	1211E	1227D		N19	E14	.325	8546	17.6	16D	1N	1							
HUAN	16	1224E	1239D		N22	E19	.414	8546	17.9	15D	-N	1	P	1224	1.24	1.25			E
GRP 1135	16	1537	1548	1542	N22	E15	.370	8546	17.8	11	1-				.50				1 1 1
LOCK	16	1537	1548	1542	N22	E15	.370	8546	17.8	11	-F		C	1542	.50	.60		10	
GRP 1136	16	1609	1635	1613	N25	E15	.406	8546	17.8	26	1-				1.65				1 1 1
LOCK	16	1609	1635	1613	N25	E15	.406	8546	17.8	26	-N		C	1613	1.50	1.60		10	
GRP 1137	16	1640	1644	1642	N22	E17	.392	8546	18.0	4	1-				.19				1 1 1
LOCK	16	1640	1644	1642	N22	E17	.392	8546	18.0	4	-N		C	1642	.20	.22		10	
GRP 1138	16	1650	1730	1700	N21	E14	.348	8546	17.8	40	1-				1.05				1 1 1
LOCK	16	1650	1730	1700	N21	E14	.348	8546	17.8	40	-N		C	1700	1.00	1.10		10	
GRP 1139	16	1751	1811	1804	N27	E82	.986	8553	22.9	20	1-				.53				1 1 1
SACP	16	1751	1811	1804	N27	E82	.986	8553	22.9	20	-F		C		.59				
GRP 1140	16	1815	1845	1820	N21	E12	.328	8546	17.7	30	1-				.94				1 1 1
LOCK	16	1815	1845	1820	N21	E12	.328	8546	17.7	30	-N		C	1820	.90	1.00		20	
GRP 1141	16	1904	1919	1909	N21	E10	.309	8546	17.5	15	1-				.94				2 2 2
LOCK	16	1901	1920	1908	N21	E11	.318	8546	17.6	19	-N		C	1908	1.00	1.10		20	H
SACP	16	1906	1918	1909	N21	E09	.301	8546	17.5	12	-N		C		.92	.91			
GRP 1142	16	2045	2110	2055	N21	E11	.318	8546	17.7	25	2-				1.65				1 1 1
LOCK	16	2045	2110	2055	N21	E11	.318	8546	17.7	25	1B		C	2055	1.50	2.30		30	H
GRP 1143	16	2152	2218	2203	N20	E09	.287	8546	17.6	26	1-				1.05				1 1 1
LOCK	16	2152	2218	2203	N20	E09	.287	8546	17.6	26	-N		C	2203	1.00	1.04		20	
GRP 1144	16	2223	2250	2228	N21	E14	.348	8546	18.0	27	1-				1.28				1 1 1
LOCK	16	2223	2250	2228	N21	E14	.348	8546	18.0	27	-N		C	2228	1.20	1.30		20	
GRP 1145	16	2303	2332	2257	N22	E10	.323	8546	17.7	29	1-				1.65				2 1 1
LOCK	16	2253	2338	2315	N22	E12	.341	8546	17.9	45	-B		C						K
SACP	16	2312	2325	2320	N21	E07	.286	8546	17.5	13	-N		C		1.01	.99			
	17	0020	0200	NO FLARE PATROL															
GRP 1146	17	0220	0226	0224	N22	E09	.273	8546	17.8	6	1-				1.30				1 1 1
KODA	17	0220E	0226	0224	N22	E09	.273	8546	17.8	6D	-B		P	0224	1.29	1.30	1.84		E
GRP 1147	17	0246	0302	0247	N22	E09	.273	8546	17.8	16	1				3.51				1 1 1
KODA	17	0246	0302D	0247	N22	E09	.273	8546	17.8	16D	1N		C	0249	3.23	3.40	2.08		JE
	17	0310	0425	NO FLARE PATROL															
GRP 1148	17	0426	0548	0429	N22	E05	.244	8546	17.6	82	2+				4.94				1 1 1
CULG	17	0426E	0548	0429	N22	E05	.244	8546	17.6	82D	2B		P	0429	5.47				
GRP 1149	17	0613	0619	0615	N23	W02	.248	8546	17.1	6	1-				.19				1 1 1
CULG	17	0613	0619	0615	N23	W02	.248	8546	17.1	6	-N		C	0615	.21	.21			L
GRP 1150	17	0627	0701	0642	N20	E04	.206	8546	17.6	34	1-				.56				1 1 1
CULG	17	0627	0701D	0642	N20	E04	.206	8546	17.6	34D	-N		P	0642	.62				K
GRP 1151	17	1010	1101	1024	N21	E07	.242	8546	17.9	51	1+				5.57				4 3 3
ATHN	17	1010E	1101	1024	N21	E07	.242	8546	17.9	51D	1B	2		1024	3.63	3.80	2.00		
KIEV	17	1011E	1041D	1020	N21	E04	.222	8546	17.7	30D	1F		C	1020	7.73			55	I
KHAR	17	1013E	1054D	1027	N21	E06	.234	8546	17.9	41D	2N		V	1032	8.51	8.80	1.80		EO
CAPS	17	1041E	1056D		N20	E10	.256	8546	18.2	15D	-N	1		1045	1.00	1.00		160	
GRP 1152	17	1537	1537		N20	E85	.991	8553	24.0		1-				.43				1 1 1
MCMA	17	1537E	1537D		N20	E85	.991	8553	24.0		-N		P	1537	.26				D
GRP 1153	17	2028	2105	2037	N21	W04	.222	8546	17.6	37	1-				.65				3 3 3
LOCK	17	2025	2110	2035	N21	W05	.228	8546	17.5	45	-F		C	2035	.80	.83		10	
SACP	17	2030	2059	2039	N21	W04	.222	8546	17.6	29	-F		C		1.01	.99			
HUAN	17	2037E	2050D		N20	W02	.198	8546	17.7	13D	-F	1	P	2048	.25	.25			D

SOLAR FLARES
REVISED
OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 OCT																		
GRP 1154	17	2044	2123	2049	N14	E04	.114	8546	18.2	39	1-				.41				4 4 4
SACP	17	2039	2130	2050	N14	E04	.114	8546	18.2	51	-N		C		.51	.49			
LOCK	17	2045	2115	2048	N14	E04	.114	8546	18.2	30	-N		C	2048	.60	.63		20	
HUAN	17	2047	2050D		N14	E04	.114	8546	18.2	3D	-F	1	P	2048	.31	.31			D
CULG	17	2047E	2102D	2048	N15	E04	.128	8546	18.2	15D	-N		P	2048	.31				L
GRP 1155	17	2142	2235	2208	N22	E01	.230	8546	18.0	53	1-				.57				3 3 3
CULG	17	2133	2229D	2206	N22	E00	.229	8546	17.9	56D	-N		P	2206	.41				
LOCK	17	2150	2235	2210	N21	W04	.222	8546	17.6	45	-F		C	2210	.90	.93		10	
HUAN	17	2153E	2209D		N22	E00	.229	8546	17.9	16D	-F	1	P	2200	.46	.47			E
GRP 1156	17	2255	2330	2310	N21	W04	.222	8546	17.7	35	1-				.94				1 1 1
LOCK	17	2255	2330	2310	N21	W04	.222	8546	17.7	35	-F		C	2310	.90	.93		10	
GRP 1157	17	2336	2359	2344	N14	E02	.098	8546	18.1	23	1-				1.19				4 4 4
SACP	17	2333	2356E	2345	N14	E02	.098	8546	18.1	23D	-N		P		1.20	1.17			
LOCK	17	2339	0000	2343	N14	E02	.098	8546	18.1	21	-N		C	2343	1.80	1.85		20	
MITK	17	2340E	0000		N15	E02	.114	8546	18.1	20D	-N		C	2345	1.75	1.70		170	G
IKOM	17	2343E	2348D	2345	N14	E03	.105	8546	18.2	5D	-N		V	2345	1.03	1.00		100	D
GRP 1158	17	2340	0034	0006	N21	W04	.222	8546	17.7	54	1-				.59				2 2 2
LOCK	17	2340	0025U		N21	W04	.222	8546	17.7	45U	-F		C	0000	.60	.63		10	
IKOM	17	2346E	0043D	0012	N21	W04	.222	8546	17.7	57D	-F		V	0012	1.44	1.40		70	E
GRP 1159	18	0005	0018	0008	N16	W04	.192	8546	17.7	13	1-				.66				2 2 2
SACP	18	0000D	0021E	0004U	N14	E02	.149	8546	18.1	21D	-F		P		1.21	1.18			
MANI	18	0010	0018	0013	N17	W10	.258	8546	17.3	8	-N	3		0013	.25	.26			
GRP 1160	18	0055	0057		N14	E03	.154	8546	18.3	2	1-				.57				1 1 1
IKOM	18	0055	0057		N14	E03	.154	8546	18.3	2	-F		V	0055	1.44	1.40		70	D
GRP 1161	18	0525	0552	0528	N14	W02	.149	8546	18.1	27	1-				.68				2 2 2
CULG	18	0524	0550	0527	N14	W02	.149	8546	18.1	26	-N		C	0527	.62				F
MITK	18	0526	0553	0529	N14	W03	.154	8546	18.0	27	-F		C	0529	1.13	1.10		130	E
GRP 1162	18	0537	0558	0541	N22	E03	.286	8546	18.5	21	1-				.37				1 1 1
CULG	18	0537	0558	0541	N22	E03	.286	8546	18.5	21	-N		C	0541	.41				F
GRP 1163	18	0758	0828		N22	W10	.325	8546	17.6	30	1-				2.13				2 2 1
BUCA	18	0750E	0835D		N23	W10	.339	8546	17.6	45D	1N		C	0813	2.66	2.80			
ISTA	18	0805	0820		N21	W10	.311	8546	17.6	15	-N								
GRP 1164	18	0950	1022		N21	E02	.267	8546	18.6	32	1-				.77				1 1 1
BUCA	18	0950E	1022		N21	E02	.267	8546	18.6	32D	-N		C	0957	1.10	1.10			
GRP 1165	18	1705	1720	1720	N24	W11	.361	8546	17.9	15	1-				.94				1 1 1
LOCK	18	1705	1720D	1720U	N24	W11	.361	8546	17.9	15D	-F		C	1720	.90	1.00		10	
GRP 1166	18	1937	1950	1942	N20	E57	.840	8553	23.1	13	1-				.60				1 1 1
SACP	18	1937	1950	1942	N20	E57	.840	8553	23.1	13	-N		C		.67	.95			
	19	0330	0500	NO FLARE PATROL															
GRP 1167	19	1130	1141	1134	N23	W26	.508	8546	17.5	11	1-				1.06				2 1 1
UCCL	19	1130E	1130D		N23	W26	.508	8546	17.5				P						E
ATHN	19	1130	1141	1134	N22	W25	.488	8546	17.6	11	-N	2		1134	.99	1.10	1.40		
GRP 1168	19	1320	1324		N17	W24	.440	8546	17.8	4	1-								1 1 0
UCCL	19	1320E	1324D		N17	W24	.440	8546	17.8	4D	-		P						D
GRP 1169	19	1506	1526	1510	N14	W24	.424	8546	17.8	20	1-				.46				1 1 1
SACP	19	1506	1526E	1510	N14	W24	.424	8546	17.8	20D	-N		P		.51	.50			
GRP 1170	19	1646	1652	1649	N14	W25	.438	8546	17.8	6	1-				.31				1 1 1
SACP	19	1646	1652	1649	N14	W25	.438	8546	17.8	6	-F		C		.34	.34			
GRP 1171	19	1704	1725	1717	N13	W26	.449	8546	17.8	21	1-				.54				3 3 3
SACP	19	1702	1728	1712	N13	W26	.449	8546	17.8	26	-F		C		.75	.76			
HALE	19	1705	1723D	1721	N13	W25	.434	8546	17.8	18D	-N	2	P	1721	.62	.70			
HUAN	19	1705	1722		N14	W26	.453	8546	17.8	17	-F	1	C	1708	.21	.21			D
GRP 1172	19	1930	2001	1946	N14	W77	.971	8539	14.0	31	1-				.35				1 1 1
LOCK	19	1930	2001	1946	N14	W77	.971	8539	14.0	31	-F		C	1946	.40	1.10		10	
GRP 1173	19	2004	2020	2009	N18	W85	.994	8539	13.5	16	1-				.34				1 1 1
LOCK	19	2004	2020	2009	N18	W85	.994	8539	13.5	16	-N		C	2009	.40	1.40		10	
GRP 1174	19	2024	2031	2028	N07	W41	.653	8545	16.8	7	1-				.31				2 2 2
SACP	19	2021	2030	2027	N07	W40	.640	8545	16.8	9	-N		C		.34	.37			
HALE	19	2026	2031	2028	N07	W42	.666	8545	16.7	5	-N	1	C	2028	.26	.30			
GRP 1175	19	2113	2138	2123	N28	E86	.994	8555	26.3	25	1-				.24				3 3 3
SACP	19	2110	2140	2120	N28	E85	.993	8555	26.3	30	-N		C		.26				
HALE	19	2112	2139	2128	N29	E82	.986	8555	26.0	27	-N	1	C	2128	.21				
LOCK	19	2118	2135	2122	N26	E90	.999	8555	26.6	17	-F		C	2122	.30	1.20		10	
GRP 1176	19	2155	2225	2205	N19	W90	.999	8539	13.2	30	1-				.16				1 1 1
LOCK	19	2155	2225	2205	N19	W90	.999	8539	13.2	30	-F		C	2205	.20	.80		10	
GRP 1177	19	2340	2356	2349	N29	E82	.986	8555	26.1	16	1-				.37				1 1 1
HALE	19	2340U	2356D	2349U	N29	E82	.986	8555	26.1	16D	-N	1	P	2349	.31				
	19	2355	0000	NO FLARE PATROL															
GRP 1178	20	0000	0023	0012	N27	E80	.980	8555	26.0	23	1-				1.03				1 1 1
SACP	20	0000E	0023D	0012U	N27	E80	.980	8555	26.0	23D	-F		P		1.14	2.87			
GRP 1179	20	0020	0042	0022	N13	E75	.962	8556	25.6	22	1-				.18				1 1 1
HALE	20	0020	0042	0022	N13	E75	.962	8556	25.6	22	-N	2	C	0022	.15				

SOLAR FLARES

REVISED

OCTOBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 OCT																	
GRP 1180	20	0116	0129	0125	N13	E76	.967	8556	25.8	13	1-				.18				2 2 1
MITK	20	0110	0129		N12	E76	.967	8556	25.7	19	-N		V						
HALE	20	0122	0129	0125	N13	E75	.962	8556	25.7	7	-F	2	C	0125	.15				
GRP 1181	20	0113	0223	0143	N24	E48	.762	8553	23.7	70	1				2.72				1 1 1
HALE	20	0113	0223	0143U	N24	E48	.762	8553	23.7	70	1N	2	C	0143	2.27	3.60			
	20	0350	0515	NO FLARE PATROL															
GRP 1182	20	0528	0538		S19	E76	.981	8554	25.9	10	1								1 1 0
MITK	20	0528E	0538		S19	E76	.981	8554	25.9	10D	1N		V						
GRP 1183	20	0537	0605	0551	N13	E69	.929	8556	25.4	28	1-				.19				1 1 1
CULG	20	0537E	0605	0551	N13	E69	.929	8556	25.4	28D	-N		P	0551	.21				K
GRP 1184	20	0558	0641	0633	N22	W31	.562	8546	17.9	43	1-				1.87				2 2 2
CULG	20	0558	0641D	0633	N21	W30	.544	8546	18.0	43D	-B		P	0633	1.13	1.32			F
ATHN	20	0626E	0626D		N22	W31	.562	8546	17.9		1N	2			2.31	2.40	1.60		
GRP 1185	20	0558	0612	0602	N27	E80	.980	8555	26.2	14	1-				.19				1 1 1
CULG	20	0558	0612	0602	N27	E80	.980	8555	26.2	14	-N		C	0602	.21				
GRP 1186	20	0818	0835	0824	N08	E70	.937	8556	25.6	17	1-				.15				1 1 1
CATA	20	0818E	0835D	0824	N08	E70	.937	8556	25.6	17D	-N			0824	.15			188	
GRP 1187	20	0935	1004	0942	N26	E77	.970	8555	26.2	29	1-				1.70				2 1 1
LOCA	20	0935	1000	0942	N26	E75	.962	8555	26.0	25	1N		V	0942	1.89				
KHAR	20	0950E	1008		N25	E78	.974	8555	26.3	18D	2N		V	0950			2.10		HL
GRP 1188	20	0945	1035		N08	E72	.948	8556	25.8	50	1-								1 1 0
KAND	20	0945E	1035		N08	E72	.948	8556	25.8	50D	-N								V
GRP 1189	20	1014	1029		N15	W33	.556	8546	18.0	15	1-								1 1 0
KAND	20	1014	1029		N15	W33	.556	8546	18.0	15	-N								V
GRP 1190	20	1045	1051		N11	E68	.923	8556	25.5	6	1-								1 1 0
KHAR	20	1045E	1051D		N11	E68	.923	8556	25.5	6D	1N		V	1047			2.10		DH
GRP 1191	20	1122	1202		N11	E70	.936	8556	25.7	40	1-				.39				2 2 2
KHAR	20	1122E	1204		N11	E68	.923	8556	25.6	42D	1N		V	1200	1.25	3.00	3.20		DHOQ
CAPS	20	1153E	1159		N11	E71	.942	8556	25.8	6D	-N	1		1155	.30				
GRP 1192	20	1248	1335		N21	E43	.700	8553	23.8	47	1-				1.30				1 1 1
MCMA	20	1248E	1335		N21	E43	.700	8553	23.8	47D	-N		P	1257	.93	1.30			EL
GRP 1193	20	1406	1421		N10	E70	.936	8556	25.8	15	1-								1 1 0
UCCL	20	1406E	1421D		N10	E70	.936	8556	25.8	15D	-		P						D
GRP 1194	20	1450	1520	1500	N07	W37	.599	8545	17.8	30	1-								1 1 0
SALO	20	1450	1520	1500	N07	W37	.599	8545	17.8	30	-								
GRP 1195	20	1500	1520	1520	N08	E63	.887	8556	25.4	20	1-								1 1 0
SALO	20	1500	1520	1520	N08	E63	.887	8556	25.4	20	-								
GRP 1196	20	1612	1625	1614	N22	W30	.550	8546	18.4	13	1-				.64				1 1 1
MCMA	20	1612	1625	1614	N22	W30	.550	8546	18.4	13	-N		C	1614	.46	.60			D
GRP 1197	20	1612	1625	1614	N21	W47	.744	8546	17.2	13	1				1.67				1 1 1
SACP	20	1612	1625	1614	N21	W47	.744	8546	17.1	13	1N		C		1.86	2.25			
GRP 1198	20	1708	1724	1723	N16	W37	.612	8546	17.9	16	1-				.49				2 2 2
MCMA	20	1655	1720		N16	W35	.586	8546	18.1	25	-N		C	1700	.52	.60			H
HALE	20	1720	1727	1723	N15	W39	.636	8546	17.8	7	-N	2	C	1723	.21	.30			
GRP 1199	20	1701	1711	1702	N12	E64	.895	8556	25.5	10	1-				.28				2 2 2
HALE	20	1658	1712	1659	N12	E62	.879	8556	25.4	14	-N	2	C	1659	.21	.40			
MCMA	20	1705	1710	1706	N13	E65	.902	8556	25.6	5	-N		C	1706	.21	.50			D
GRP 1200	20	1712	1726	1716	N14	E66	.909	8556	25.7	14	1-				.78				3 3 3
SACP	20	1710	1720	1716	N15	E64	.895	8556	25.5	10	-N		P		1.18	1.88			
HALE	20	1713	1731	1717	N14	E66	.909	8556	25.7	18	-B	2	C	1717	.41				
MCMA	20	1714	1727	1716	N14	E67	.916	8556	25.7	13	-N		C	1716	.52	1.20			E
GRP 1201	20	1736	1756	1744	N23	W31	.568	8546	18.4	20	1-				1.19				2 2 2
HALE	20	1735	1747	1746U	N23	W31	.568	8546	18.4	12	-B	2	P	1746	1.13	1.40			E
MCMA	20	1737	1805	1742	N22	W30	.550	8546	18.5	28	-F		C	1742	.72	.90			E
GRP 1202	20	1738	1810	1744	N13	E67	.916	8556	25.8	32	1-				.63				2 2 2
HALE	20	1737	1747D	1744U	N12	E66	.909	8556	25.7	10D	-N	2	P	1744	.52				E
MCMA	20	1738	1810	1743	N13	E67	.916	8556	25.8	32	-N		C	1743	.41	1.00			E
GRP 1203	20	1747	1752	1748	N14	W36	.594	8546	18.0	5	1-				.43				1 1 1
MCMA	20	1747	1752	1748	N14	W36	.594	8546	18.0	5	-N		C	1750	.31	.32			D
GRP 1204	20	1900	1914	1904	N21	W49	.765	8546	17.1	14	1				1.09				2 2 2
LOCK	20	1900	1915	1904	N21	W50	.775	8546	17.0	15	-N		C	1904	.50	.80		20	
SACP	20	1903E	1912	1904	N20	W48	.752	8546	17.2	9D	1B		C		1.86	2.30			
GRP 1205	20	1903	1912	1905	N18	W38	.631	8546	17.9	9	1-				.73				1 1 1
MCMA	20	1903	1912	1905	N18	W38	.631	8546	17.9	9	-N		C	1905	.52	.70			DV
GRP 1206	20	2021	2037	2024	N22	W39	.658	8546	17.9	16	1-				.34				2 2 2
LOCK	20	2020	2035	2024	N22	W39	.658	8546	17.9	15	-F		C	2024	.40	.50		10	
CULG	20	2021	2038	2023	N22	W39	.658	8546	17.9	17	-N		C	2023	.31	.39			F
GRP 1207	20	2036	2057	2043	N12	E65	.902	8556	25.7	21	1-				.74				3 3 3
CULG	20	2034	2059	2043	N12	E66	.909	8556	25.8	25	-N		C	2043	.62				
MCMA	20	2037E	2046D		N13	E65	.902	8556	25.7	9D	-B		P	2037	.41	1.00			E
LOCK	20	2037	2055	2042	N12	E63	.887	8556	25.6	18	1N		C	2042	1.00	2.10		20	

SOLAR FLARES

REVISED

OCTOBER 1966

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		DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
		1966 OCT																		
GRP	1208	20	2152	2207	2156	N20	W50	.773	8546	17.2	15	1				1.33				3 3 3
	CULG	20	2151	2208D	2155	N20	W50	.773	8546	17.2	17D	-B		P	2155	.62	.96			VL
	SACP	20	2153	2204	2156	N20	W50	.773	8546	17.2	11	1B		C		2.29	2.90			
	HALE	20	2153	2210	2157	N21	W51	.785	8546	17.1	17	-B	1	C	2157	1.13	1.80			
GRP	1209	20	2305	2320	2310	N23	W42	.696	8546	17.8	15	1-				.49				2 2 2
	CULG	20	2305	2313D	2309	N22	W40	.669	8546	18.0	8D	-N		P	2309	.41	.52			F
	LOCK	20	2305	2320U	2310	N23	W43	.707	8546	17.7	15U	-F		C	2310	.60	.80		10	
GRP	1210	21	0002	0053	0004	N13	E62	.879	8556	25.7	51	1-				.25				1 1 1
	HALE	21	0002	0053	0004	N13	E62	.879	8556	25.7	51	-N	1	C	0004	.21	.40			T
GRP	1211	21	0102	0139	0133	N12	E59	.853	8556	25.5	37	1-				.18				1 1 1
	HALE	21	0102	0139	0133	N12	E59	.853	8556	25.5	37	-F	1	C	0133	.15	.30			T
GRP	1212	21	0227	0348	0335	N12	E57	.835	8556	25.4	81	1-				.37				1 1 1
	HALE	21	0227	0348D	0335	N12	E57	.835	8556	25.4	81D	-N	1	P	0335	.31	.60			T
GRP	1213	21	0345	0355	0347	N21	W52	.795	8546	17.3	10	1-				.68				2 2 2
	HALE	21	0345	0348D	0346U	N22	W52	.797	8546	17.3	3D	-B	1	P	0346	.83	1.40			
	MANI	21	0346E	0355	0348	N20	W52	.794	8546	17.3	9D	-N	2		0348	.41	.66			
GRP	1214	21	0452	0458		N14	W44	.696	8546	17.9	6	1-				.28				1 1 1
	MANI	21	0452E	0458D		N14	W44	.696	8546	17.9	6D	-F	2		0453	.31	.43			
GRP	1215	21	0700	0802	0701	N17	W51	.779	8546	17.5	62	1-				.28				2 1 1
	CULG	21	0700	0713	0701	N19	W54	.812	8546	17.2	13	-N		C	0701	.31	.51			
	ISTA	21	0705E	0850		N15	W47	.733	8546	17.8	105D	1F								
GRP	1216	21	0705	0905		N22	E60	.868	8555	25.8	120	1-								1 1 0
	ISTA	21	0705E	0905D		N22	E60	.868	8555	25.8	120D	1F								
GRP	1217	21	0906	0952	0922	N14	W48	.743	8546	17.8	46	1-				1.12				4 4 4
	KAND	21	0840E	1015		N16	W49	.757	8546	17.7	95D	1N			0920	1.85	2.30			C
	ARCE	21	0910E	1000D	0920	N13	W49	.753	8546	17.7	50D	-N		C	0920	1.02	1.60			H
	CAPS	21	0917E	0927D		N13	W47	.731	8546	17.9	10D	-F	1		0918	.30	.40		157	C
	KHAR	21	0917	0927	0923	N14	W49	.754	8546	17.7	10	1N		V	0923	3.74	5.60	1.80		H
GRP	1218	21	0930	1002	0940	N10	W48	.740	8546	17.8	32	1-				.67				2 2 1
	SALO	21	0930	1010	0940	N07	W48	.740	8546	17.8	40	-								
	ATHN	21	0937E	0955	0940	N14	W48	.743	8546	17.8	18D	-N	2		0940	.66	.90	1.80		
GRP	1219	21	1502	1508	1502	S16	E48	.789	8554	25.2	6	1-				.67				1 1 1
	ATHN	21	1502E	1508	1502	S16	E48	.789	8554	25.2	6D	-N	1		1502	.66	1.10	1.70		
GRP	1220	21	1614	1716	1621	N20	W53	.804	8546	17.7	62	1-				1.05				2 1 1
	LOCK	21	1614	1725	1621	N20	W54	.813	8546	17.6	71	-F		C	1621	1.00	1.70		10	
	HALE	21	1630E	1706	1641	N20	W51	.784	8546	17.9	36D	-N	3	P	1641	.21	.30			
GRP	1221	21	1719	1737	1725	N12	E48	.741	8556	25.3	18	1-				.12				1 1 1
	HALE	21	1719	1737	1725	N12	E48	.741	8556	25.3	18	-N	3	C	1725	.10	.20			
GRP	1222	21	1719	1800	1732	N24	E32	.587	8553	24.1	41	1-				.25				1 1 1
	HALE	21	1719	1800	1732	N24	E32	.587	8553	24.1	41	-N	2	C	1732	.21	.30			
GRP	1223	21	1821	1837	1822	N10	W55	.816	8545	17.6	16	1-				.74				1 1 1
	HALE	21	1821	1837	1822	N10	W55	.816	8545	17.6	16	-F	1	C	1822	.62	1.10			
GRP	1224	21	1824	1852	1839	N22	E26	.502	8553	23.7	28	1-				.43				2 2 2
	HALE	21	1823	1848	1840	N22	E26	.502	8553	23.7	25	-F	2	C	1840	.21	.22			E
	LOCK	21	1825	1855	1838	N21	E25	.482	8553	23.6	30	-F		C	1838	.60	.70		10	
GRP	1225	21	1913	1953	1920	N24	E28	.540	8553	23.9	40	1-				.51				3 3 3
	LOCK	21	1913	1945	1922	N23	E29	.545	8553	24.0	32	-N		C	1922	.60	.70		20	
	SACP	21	1913	1947	1918	N24	E28	.540	8553	23.9	34	-F		C		.68	.71			
	HALE	21	1913	2006	1919	N24	E26	.517	8553	23.8	53	-N	2	C	1919	.26	.30			
GRP	1226	21	2027	2048	2030	N12	E48	.741	8556	25.5	21	1-				.28				1 1 1
	CULG	21	2027	2048	2030	N12	E48	.741	8556	25.5	21	-F		C	2030	.31	.43			
GRP	1227	21	2109	2131	2113	N13	E47	.731	8556	25.4	22	1-				.48				3 3 3
	CULG	21	2108	2130	2113	N12	E48	.741	8556	25.5	22	-N		C	2113	.41	.60			
	HALE	21	2108	2134	2112	N13	E46	.719	8556	25.3	26	-N	2	C	2112	.26	.40			
	SACP	21	2110	2130	2115	N13	E47	.731	8556	25.4	20	-F		C		.85	1.01			
GRP	1228	21	2110	2135	2115	N05	E46	.717	8556	25.3	25	1-				.82				1 1 1
	LOCK	21	2110	2135	2115	N05	E46	.717	8556	25.3	25	-F		C	2115	.80	1.20		10	
GRP	1229	21	2223	2259	2249	N12	E47	.730	8556	25.5	36	1-				.47				1 1 1
	CULG	21	2223	2259	2249	N12	E47	.730	8556	25.5	36	-N		C	2249	.52	.70			
GRP	1230	21	2355	0011	2358	N13	E45	.707	8556	25.4	16	1-				.80				3 2 2
	MITK	21	2355	0015	2358	N13	E46	.719	8556	25.4	20	1N		C	2358	1.86	2.30		170	
	IKOM	21	2357E	0004D		N12	E45	.706	8556	25.4	7D	-N		V	2357	.72	1.00		95	D
	HALE	22	0000E	0007		N14	E45	.709	8556	25.4	7D	-B	2	P	0000	.41	.60			
GRP	1231	21	2356	0013	2359	N05	E45	.705	8556	25.4	17	1-				.61				1 1 1
	LOCK	21	2356	0013	2359	N05	E45	.705	8556	25.4	17	-B		C	2359	.60	.90		30	
GRP	1232	22	0012	0023	0018	N28	E12	.429	8558	22.9	11	1-				.29				3 3 3
	CULG	22	0003	0017		N28	E12	.429	8558	22.9	14	-N		C	0017	.31	.33			
	LOCK	22	0015	0025	0018	N28	E13	.435	8558	23.0	10	-N		C	0018	.40	.42		20	
	HALE	22	0017	0028	0017	N28	E10	.416	8558	22.8	11	-F	2	C	0017	.15	.20			
GRP	1233	22	0127	0135	0129	N28	E12	.429	8558	23.0	8	1-				.54				4 4 4
	CULG	22	0125	0137D	0129	N28	E12	.429	8558	23.0	12D	-N		P	0129	.41	.44			
	MITK	22	0127	0135	0129	N27	E12	.415	8558	23.0	8	-N		C	0129	1.34	1.50		140	G
	IKOM	22	0128E	0131D		N28	E15	.450	8558	23.2	3D	-F		V	0128	.41	.50		80	DG
	HALE	22	0128	0133	0129	N28	E10	.416	8558	22.8	5	-N	2	C	0129	.62	.70			

SOLAR FLARES

REVISED

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	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. %	
GRP 1234	22	0144	0206	0152	N28	E57	.853	8555	26.3	22	1-				.68				3 3 3
HALE	22	0140	0200	0143	N27	E54	.826	8555	26.1	20	-N	2	C	0143	.41	.80			
MITK	22	0143	0209	0151	N28	E58	.860	8555	26.4	26	1F		C	0151	1.55	3.00		130	
CULG	22	0150	0210D	0152	N28	E58	.860	8555	26.4	20D	-B		P	0152	.52	.95			
GRP 1235	22	0339	0348	0339	N13	W59	.854	8546	17.7	9	1-				.25				1 1 1
HALE	22	0339	0348D	0339	N13	W59	.854	8546	17.7	9D	-F	3	C	0339	.21	.40			
GRP 1236	22	0358	0408	0400	N21	E21	.434	8553	23.7	10	1-				.37				1 1 1
CULG	22	0358	0408	0400	N21	E21	.434	8553	23.7	10	-N		C	0400	.41	.44			
GRP 1237	22	0420	0456	0437	N29	E11	.436	8558	23.0	36	1-				.19				1 1 1
CULG	22	0420	0456	0437	N29	E11	.436	8558	23.0	36	-N		C	0437	.21	.22			L
GRP 1238	22	0611	0620	0617	N21	E20	.422	8553	23.8	9	1-				.51				2 2 2
TACH	22	0611	0619	0615	N21	E20	.422	8553	23.8	8	-B		C	0615	.55	.60		128	E
CULG	22	0614E	0621D	0618	N21	E19	.410	8553	23.7	7D	-N		P	0618	.62	.66			
GRP 1239	22	0750	0758	0753	N23	W57	.845	8546	18.1	8	1-				.50				1 1 1
ATHN	22	0750	0758	0753	N23	W57	.845	8546	18.1	8	-N	2		0753	.50	.90	1.80		
GRP 1240	22	0827	0832		N27	E07	.385	8558	22.9	5	1-								1 1 0
LOCA	22	0827E	0832D		N27	E07	.385	8558	22.9	5D	-N		S						
GRP 1241	22	0913	0929	0915	N13	E41	.658	8556	25.5	16	1-				.50				1 1 1
ATHN	22	0913	0929	0915	N13	E41	.658	8556	25.5	16	-N	1		0915	.50	.70	1.80		
GRP 1242	22	0916	0920	0917	N21	E16	.375	8553	23.6	4	1-				1.50				1 1 1
ATHN	22	0916	0920	0917	N21	E16	.375	8553	23.6	4	-N	1		0917	1.32	1.40	1.60		
GRP 1243	22	1205	1232	1207	N23	E17	.408	8553	23.8	27	1-				1.09				1 1 1
MONT	22	1205	1232	1207	N23	E17	.408	8553	23.8	27	-F		C	1207	1.09	1.10			
GRP 1244	22	1247	1258	1250	N07	W75	.964	8545	16.9	11	1-				.50				2 2 2
HUAN	22	1245	1249D		N08	W77	.972	8545	16.8	4D	-N	1	P	1248	.41				
ATHN	22	1249	1258	1250	N06	W72	.949	8545	17.1	9	-N	1		1250	.66	1.70	1.50		
GRP 1245	22	1452	1500	1452	N15	W66	.910	8546	17.7	8	1-				1.10				2 1 1
MCMA	22	1450	1457	1452	N14	W66	.910	8546	17.7	7	-N		C	1452	.72	1.00			D
CAPS	22	1454	1502		N15	W65	.903	8546	17.7	8	-F	3		1455	.20			150	D
GRP 1246	22	1611	1635	1614	N14	W66	.910	8546	17.7	24	1-				.69				2 2 2
SACP	22	1610	1644	1631U	N14	W65	.902	8546	17.8	34	-F		C		1.10	1.80			
HUAN	22	1611	1626	1614	N13	W67	.917	8546	17.6	15	-F	1	C	1614	.52	.90			E
GRP 1247	22	1615	1626	1620	N24	W67	.919	8546	17.7	11	1-				.90				1 1 1
LOCK	22	1615	1626	1620	N24	W67	.919	8546	17.7	11	-N		C	1620	.90	2.00		20	
GRP 1248	22	1740	1746	1742	N15	W68	.923	8546	17.6	6	1-				.38				1 1 1
LOCK	22	1740	1746	1742	N15	W68	.923	8546	17.6	6	-N		C	1742	.40	.90		10	
GRP 1249	22	1812	1825	1816	N20	E35	.602	8555	25.4	13	1-				.34				2 2 2
LOCK	22	1812	1822	1815	N24	E35	.622	8555	25.4	10	-N		C	1815	.30	.40		10	
SACP	22	1812	1827	1817	N15	E35	.584	8556	25.4	15	-N		C		.42	.45			
GRP 1250	22	1910	1935	1916	N14	W68	.923	8546	17.7	25	1-				.84				4 4 4
LOCK	22	1910	1926	1914	N15	W68	.923	8546	17.7	16	-N		C	1914	.90	1.90		20	
HALE	22	1910	1930	1914	N14	W71	.942	8546	17.5	20	-N	1	C	1914	.41				
SACP	22	1910U	1949U	1920	N14	W66	.910	8546	17.8	39U	1F		C		1.34	2.27			
HUAN	22	1911E	1919D		N14	W66	.910	8546	17.8	8D	1F	1	P	1912	1.08	1.90			E
GRP 1251	22	2004	2024	2008	N14	E34	.567	8556	25.4	20	1-				.56				3 3 3
SACP	22	2003	2030	2008	N15	E34	.570	8556	25.4	27	-B		C		.67	.72			
HALE	22	2005	2020	2006	N14	E34	.567	8556	25.4	15	-N	1	C	2006	.21	.30			
LOCK	22	2005	2023	2009	N13	E35	.579	8556	25.5	18	-N		C	2009	.80	1.00		20	
GRP 1252	22	2103	2110	2105	N14	W69	.930	8546	17.7	7	1-				.44				2 2 2
LOCK	22	2102	2110	2105	N14	W67	.917	8546	17.9	8	-F		C	2105	.40	.80		10	
HALE	22	2103	2110	2104	N14	W71	.942	8546	17.6	7	-F	1	C	2104	.41				
GRP 1253	22	2146	2147	2146	S13	E26	.525	8554	24.9	1	1-				.12				1 1 1
HALE	22	2146	2147	2146	S13	E26	.525	8554	24.9	1	-F	1	C	2146	.10	.11			
GRP 1254	22	2148	2156	2150	N15	E34	.570	8556	25.5	8	1-				.24				2 2 2
LOCK	22	2146	2157	2149	N13	E35	.579	8556	25.5	11	-F		C	2149	.30	.40		10	
HALE	22	2150	2155	2151	N16	E32	.547	8556	25.3	5	-F	1	C	2151	.15	.20			
GRP 1255	22	2213	2240	2220	N15	E34	.570	8556	25.5	27	1-				1.71				2 2 2
SACP	22	2212U	2240	2219	N15	E32	.543	8556	25.3	28U	-B		P		1.68	1.77			
LOCK	22	2213	2240	2220	N14	E35	.581	8556	25.6	27	-N		C	2220	1.70	2.00		20	
GRP 1256	22	2311	2330	2317	N15	E34	.570	8556	25.5	19	1-				.43				2 2 2
SACP	22	2310	2329	2317	N15	E32	.543	8556	25.4	19	-N		C		.51	.53			
LOCK	22	2312	2330	2316	N14	E35	.581	8556	25.6	18	-N		C	2316	.40	.90		10	
GRP 1257	22	2330	2351	2338	N28	E45	.747	8555	26.4	21	1-				.66				2 2 2
SACP	22	2329	2349	2338	N28	E45	.747	8555	26.4	20	-N		C		.42	.51			
LOCK	22	2330	2352		N27	E45	.743	8555	26.4	22	-N		C		.90	1.40		20	
GRP 1258	23	0001	0020	0004	N13	E32	.537	8556	25.4	19	1-				.97				3 2 2
LOCK	22	2359	0020U	0002	N14	E33	.554	8556	25.5	21U	-B		C	0002	.80	1.00		30	
SACP	23	0000	0020D	0005	N14	E31	.526	8556	25.3	20D	-N		C		1.23	1.28			
IKOM	23	0005	0014D		N12	E31	.520	8556	25.3	9D	-F		V	0005	.62	.70		75	D
	23	0105	0110	NO FLARE PATROL															
	23	0115	0130	NO FLARE PATROL															
GRP 1259	23	0208	0228	0216	N14	E32	.540	8556	25.5	20	1-				.87				2 2 2
MITK	23	0208	0227	0215	N13	E32	.537	8556	25.5	19	-N		C	0215	1.24	1.60		160	
HALE	23	0208	0228	0216	N14	E31	.526	8556	25.4	20	-B	1	C	0216	.72	.90			

SOLAR FLARES

REVISED

OCTOBER 1966

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	DATE 1966 OCT	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. %	
GRP 1260	23	0208	0235	0209	N14	W71	.942	8546	17.8	27	1-				.25				1 1 1
HALE	23	0208	0235	0209	N14	W71	.942	8546	17.8	27	-N	1	C	0209	.21				
GRP 1261	23	0236	0252	0238	N14	E30	.512	8556	25.4	16	1				1.60				3 3 3
HALE	23	0234	0255	0237	N15	E27	.474	8556	25.1	21	-B	2	C	0237	1.44	1.70			
MITK	23	0235	0254	0238	N14	E31	.526	8556	25.4	19	1B		C	0238	2.37	2.80		210	
KODA	23	0238	0246	0239	N14	E31	.526	8556	25.4	8	-B		C	0243	1.29	1.50	2.48		D
GRP 1262	23	0246	0256	0248	N13	W73	.953	8546	17.6	10	1-				.25				1 1 1
HALE	23	0246	0256	0248	N13	W73	.953	8546	17.6	10	-N	1	C	0248	.21				
GRP 1263	23	0322	0353	0324	N24	W69	.932	8546	18.0	31	1-				.61				2 2 2
MITK	23	0320	0353	0336	N24	W68	.924	8546	18.0	33	1N		C	0336	1.03			140	E
HALE	23	0323	0326D	0324	N24	W70	.937	8546	17.9	3D	-N	1	P	0324	.41				
GRP 1264	23	0326	0340	0327	N15	E29	.502	8556	25.3	14	1-				.98				2 2 2
MITK	23	0325	0340	0328	N14	E30	.512	8556	25.4	15	1N		C	0328	1.96	2.30		160	
HALE	23	0326	0326D	0326D	N15	E28	.488	8556	25.2		-N	1	P	0326	.41	.50			
GRP 1265	23	0629	0636	0631	N15	W70	.936	8546	18.0	7	1-				1.06				4 4 4
ATHN	23	0628	0638	0632	N15	W70	.936	8546	18.0	10	-B	2		0632	.50		2.00		
TACH	23	0629	0634	0632	N16	W70	.936	8546	18.0	5	-N		C	0632	.55		4.20	51	D
KODA	23	0629	0635	0630	N15	W68	.923	8546	18.2	6	1F		P	0632	2.58		1.92		D
MANI	23	0630	0635	0631	N15	W70	.936	8546	18.0	5	-N	2		0631	.77	1.66			
GRP 1266	23	0718	0725	0720	N13	E30	.509	8556	25.6	7	1-				.39				1 1 1
ATHN	23	0718	0725	0720	N13	E30	.509	8556	25.6	7	-N	2		0720	.39	.50	1.70		
GRP 1267	23	0727	0733	0729	N15	W72	.947	8546	17.9	6	1-				.54				1 1 1
ATHN	23	0727	0733	0729	N15	W72	.947	8546	17.9	6	-N	2		0729	.50		1.90		
GRP 1268	23	0816	0829	0820	N14	E27	.469	8556	25.4	13	1-				.40				3 3 3
LOCA	23	0816	0826	0820	N14	E24	.426	8553	25.1	10	-F		V	0820	.53	.60			
CAPS	23	0816E	0828		N15	E26	.459	8556	25.3	12D	-B	3		0818	.20	.30		260	E
ATHN	23	0817	0832	0820	N13	E30	.509	8556	25.6	15	-B	2		0820	.50	.60	2.00		
GRP 1269	23	0902	0913	0905	N14	E30	.512	8556	25.6	11	1-				.68				1 1 1
ATHN	23	0902	0913D	0905	N14	E30	.512	8556	25.6	11D	-N	2		0905	.66	.70	1.60		
GRP 1270	23	0909	0947	0916	N15	W74	.957	8546	17.8	38	1-				1.03				2 1 1
ATHN	23	0909	0947	0916	N15	W73	.952	8546	17.9	38	1N	2		0916	.99		1.90		
BUCA	23	0925E	0925D		N15	W74	.957	8546	17.8		1B		P	0925	1.66				
GRP 1271	23	0934	0952	0938	N15	E30	.516	8556	25.6	18	1-				.68				1 1 1
ATHN	23	0934	0952	0938	N15	E30	.516	8556	25.6	18	-N	2		0938	.66	.70	1.60		
GRP 1272	23	1020	1039	1024	N13	E25	.436	8556	25.3	19	1-				.97				2 2 2
LOCA	23	1020	1038	1025	N14	E24	.426	8556	25.2	18	-B		V	1025	.53	.60			
CATA	23	1021E	1040D	1023	N12	E26	.447	8556	25.4	19D	-B			1023	1.45	1.60		339	
GRP 1273	23	1153	1155		N15	E26	.459	8556	25.4	2	1-								1 1 0
CAPS	23	1153E	1155D		N15	E26	.459	8556	25.4	2D	-B	1							
GRP 1274	23	1310	1317	1311	N12	W78	.975	8546	17.7	7	1-				.56				1 1 1
ATHN	23	1310	1317	1311	N12	W78	.975	8546	17.7	7	-B	2		1311	.50		2.00		
GRP 1275	23	1333	1413	1348	N28	W07	.402	8558	23.0	40	1-				1.23				3 3 2
SACP	23	1325E	1413	1352	N28	W07	.402	8558	23.0	48D	-N		C		1.44	1.45			
MCMA	23	1336	1410	1344	N28	W07	.402	8558	23.0	34	-F		C	1344	.83	.90			E
ATHN	23	1337	1417		N28	W08	.407	8558	23.0	40	1N	1					1.80		
GRP 1276	23	1337	1402	1346	N22	W77	.970	8546	17.8	25	1				1.92				3 2 1
SACP	23	1334	1414	1346	N23	W77	.970	8546	17.8	40	1B		C		2.13	4.85			
MCMA	23	1339	1355	1346	N22	W80	.981	8546	17.6	16	-B		C	1345					EV
ATHN	23	1348E	1356		N22	W75	.962	8546	17.9	8D	-N	1					1.60		
GRP 1277	23	1423	1506	1428	N14	W76	.967	8546	17.9	43	1				1.44				6 6 5
LOCA	23	1422	1455	1427	N13	W75	.962	8546	18.0	33	1N		V	1427	1.47				
MCMA	23	1423	1503	1430	N13	W80	.982	8546	17.6	40	1B		C	1430					
WEND	23	1425E	1449D		N18	W74	.957	8546	18.1	24D	1N				5.16				
HUAN	23	1425E	1505		N14	W76	.967	8546	17.9	40D	-B	1	P	1429	.88				E
ATHN	23	1425E	1520D	1428	N12	W75	.963	8546	18.0	55D	1B			1428	1.16		2.00		
CAPS	23	1427E	1448D		N15	W75	.962	8546	18.0	21D	1N	1		1428	2.00			166	
GRP 1278	23	1550	1630	1550	N13	E27	.465	8556	25.7	40	1-				.73				2 1 1
MCMA	23	1545	1630	1550	N13	E27	.465	8556	25.7	45	-F		C	1550	.52	.60			EH
LOCK	23	1555	1630	1610	N13	E27	.465	8556	25.7	35	-F		C	1610	.40	.43		10	
GRP 1279	23	1650	1708	1659	N13	W80	.982	8546	17.7	18	1-				.34				3 3 2
LOCK	23	1645	1725	1659	N13	W80	.982	8546	17.7	40	-F		C	1659	.50	1.60		10	H
MCMA	23	1647	1655	1649	N13	W80	.982	8546	17.7	8	-F		C	1649					D
HALE	23	1657	1705	1658	N14	W79	.978	8546	17.8	8	-B	1	C	1658	.21				
GRP 1280	23	1733	1754	1738	N22	W28	.528	8556	21.6	21	1-				.50				1 1 1
LOCK	23	1733	1754	1738	N22	W28	.528	8556	21.6	21	-F		C	1738	.50	.60		10	L
GRP 1281	23	1803	1832	1810	N28	W10	.417	8558	23.0	29	1-				.61				1 1 1
LOCK	23	1803	1832	1810	N28	W10	.417	8558	23.0	29	-F		C	1810	.60	.70		10	
GRP 1282	23	1808	1816	1810	N17	W77	.971	8546	18.0	8	1-				.17				1 1 1
LOCK	23	1808	1816	1810	N17	W77	.971	8546	18.0	8	-F		C	1810	.20	.60		10	H
GRP 1283	23	1907	1953	1926	N14	W82	.988	8546	17.6	46	1				.69				5 5 4
LOCK	23	1905	2000	1925	N14	W82	.988	8546	17.6	55	1N		C	1925	.90	3.20		10	
SACP	23	1906	2007	1927	N13	W81	.985	8546	17.7	61	-N		C		1.09				
MCMA	23	1908E	1950	1926	N13	W82	.988	8546	17.6	42D	-B		C						
HUAN	23	1909	1917D		N14	W80	.982	8546	17.8	8D	-N	1	P	1911	.31				D
HALE	23	1909	1936	1927	N14	W83	.990	8546	17.6	27	1B	1	C	1927	.62				

SOLAR FLARES

REVISED

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 OCT																		
GRP 1284	23	2056	2137	2108	N14	W80	.982	8546	17.9	41	1				.62				3 3 3
SACP	23	2055	2135	2111	N13	W81	.985	8546	17.8	40	-N		C		.75				
LOCK	23	2055	2135	2105	N14	W80	.982	8546	17.9	40	-N		C	2105	.50	1.60		10	J
HALE	23	2058	2140U	2108	N14	W79	.978	8546	17.9	42U	1B	1	P	2108	.62				
GRP 1285	23	2156	2223	2204	N15	E18	.345	8556	25.3	27	1-				.53				3 3 3
SACP	23	2152	2231	2208	N15	E19	.359	8556	25.3	39	-F		C		.68	.67			
HALE	23	2158	2217	2203	N16	E17	.339	8556	25.2	19	-N	1	C	2203	.31	.32			
LOCK	23	2200	2222	2202	N14	E18	.338	8556	25.3	22	-N		C	2202	.60	.70		20	H
GRP 1286	23	2232	2250	2236	N15	E18	.345	8556	25.3	18	1-				.51				3 3 3
LOCK	23	2231	2244	2234	N14	E18	.338	8556	25.3	13	-N		C	2234	.50	.60		20	H
SACP	23	2231	2257	2240	N15	E18	.345	8556	25.3	26	-F		C		.59	.58			
HALE	23	2234	2242D	2235	N16	E17	.339	8556	25.2	8D	-N	1	P	2235	.41	.42			
GRP 1287	23	2230	0000	2300	S27	W02	.534	8561	23.8	90	1-				.40				1 1 1
LOCK	23	2230	0000	2300	S27	W02	.534	8561	23.8	90	-F		C	2300	.40	.50		10	
GRP 1288	23	2254	2323	2303	N15	E18	.345	8556	25.3	29	1-				.89				2 2 2
LOCK	23	2252	2321	2302	N14	E18	.338	8556	25.3	29	-N		C	2302	.70	.80		20	H
SACP	23	2256	2324	2303	N15	E18	.345	8556	25.3	28	-N		C		1.19	1.17			
GRP 1289	23	2354	0023	2356	N14	E17	.324	8556	25.3	29	1				1.61				3 2 2
SACP	23	2350	2355D	2355U	N15	E17	.331	8556	25.3	5D	-N		P		.86	.85			
LOCK	23	2353	0020D	2357	N14	E17	.324	8556	25.3	27D	1B		C	2357	2.10	2.30		40	H
IKOM	24	0000	0023D		N14	E16	.310	8556	25.2	23D	-N		V	0015	.83	.90	1.26	100	D
GRP 1290	24	0010	0022		N15	W80	.982	8546	18.0	12	1-				.88				1 1 1
MANI	24	0010E	0022D		N15	W80	.982	8546	18.0	12D	1N	1		0021	1.03	2.65			
	24	0050	0110	NO FLARE PATROL															
GRP 1291	24	0120	0130		N16	W80	.982	8546	18.1	10	1-				.98				1 1 1
MANI	24	0120E	0130D		N16	W80	.982	8546	18.1	10D	-N	1		0125	1.13	2.91			
	24	0130	0230	NO FLARE PATROL															
GRP 1292	24	0230	0241		N18	W15	.334	8553	23.0	11	1-				.23				1 1 1
IKOM	24	0230	0241D		N18	W15	.334	8553	23.0	11D	-F		V	0230	.72	.80		75	D
GRP 1293	24	0253	0256		N14	W85	.994	8546	17.7	3	1-								1 1 0
IKOM	24	0253	0256D		N14	W85	.994	8546	17.7	3D	-N		V						
	24	0330	0335	NO FLARE PATROL															
GRP 1294	24	0552	0604	0553	N22	W07	.312	8553	23.7	12	1-				1.32				1 1 1
ATHN	24	0552E	0604	0553	N22	W07	.312	8553	23.7	12D	-N	2		0553	1.16	1.20	1.30		
GRP 1295	24	0820	0855		S25	W07	.514	8561	23.8	35	1-				.77				1 1 1
BUCA	24	0820E	0855D		S25	W07	.514	8561	23.8	35D	-N		C	0841	1.10	1.30			
GRP 1296	24	0836	0855	0838	N29	W19	.498	8558	22.9	19	1-				.54				2 2 2
BUCA	24	0835	0855		N29	W19	.498	8558	22.9	20	-N		C		.56	.60			
ATHN	24	0837	0842D	0838	N29	W18	.489	8558	23.0	5D	-N	2		0838	.66	.70	1.30		
GRP 1297	24	0851	0859		N20	W90	1.000	8546	17.6	8	1-				.23				1 1 1
BUCA	24	0851	0859		N20	W90	1.000	8546	17.6	8	-B		C	0853	.33				
GRP 1298	24	0925	1004		S25	W07	.514	8561	23.9	39	1-				.46				1 1 1
BUCA	24	0925E	1004D		S25	W07	.514	8561	23.9	39D	-N		C	0940	.66	.80			
GRP 1299	24	0935	0954	0946	N16	W90	1.000	8546	17.6	19	1				.30				2 2 2
BUCA	24	0935E	0954	0946	N17	W90	1.000	8546	17.6	19D	1B		C	0946	.56				
CAPS	24	0944E	0949D		N14	W90	1.000	8546	17.7	5D	-N	2		0945	.20				
GRP 1300	24	1010	1014	1011	N13	E14	.274	8556	25.5	4	1-				.54				1 1 1
ATHN	24	1010	1014	1011	N13	E14	.274	8556	25.5	4	-F	2		1011	.50	.50	1.20		
GRP 1301	24	1131	1144	1135	N14	E12	.255	8556	25.4	13	1-				1.66				3 2 2
ATHN	24	1131	1144	1134	N13	E13	.259	8556	25.5	13	-B	2		1134	.66	.70	2.00		
KIEV	24	1134E	1140D	1135	N16	E11	.264	8556	25.3	6D	-N		C	1135	2.58			60	DI
CAPS	24	1139E	1142D		N14	E11	.242	8556	25.3	3D	-F	3		1141	.70	.70		145	
GRP 1302	24	1242	1255	1245	N13	E13	.259	8556	25.5	13	1-				.55				1 1 1
ATHN	24	1242	1255	1245	N13	E13	.259	8556	25.5	13	-N	2		1245	.50	.50	1.70		
GRP 1303	24	1313	1323		N14	W90	1.000	8546	17.8	10	1-				.20				2 2 1
CAPS	24	1312	1323		N14	W90	1.000	8546	17.8	11	-N	2			.20				
MCMA	24	1314	1322		N13	W90	1.000	8546	17.8	8	-B		P						
GRP 1304	24	1315	1323	1319	N23	W90	.999	8546	17.8	8	1-				.39				1 1 1
ATHN	24	1315	1323	1319	N23	W90	.999	8546	17.8	8	-B	2		1319	.33		2.00		
GRP 1305	24	1321	1327	1322	N14	E11	.242	8556	25.4	6	1-				.53				3 3 2
MCMA	24	1320	1327	1321	N15	E09	.229	8556	25.2	7	-B		P	1321	.36	.40			DH
ATHN	24	1321	1329	1322	N13	E13	.259	8556	25.5	8	-B	2		1322	.50	.50	2.00		
CAPS	24	1322E	1326		N14	E10	.229	8556	25.3	4D	-F	2						150	
GRP 1306	24	1400	1411	1404	N14	E11	.242	8556	25.4	11	1-				.34				2 2 2
SACP	24	1358	1412	1405	N15	E09	.229	8556	25.3	14	-N		C		.34	.33			
ATHN	24	1402	1409	1403	N13	E12	.245	8556	25.5	7	-F	2		1403	.33	.40	1.30		
GRP 1307	24	1420	1520	1440	N04	E07	.123	8556	25.1	60	1-								1 1 0
SALO	24	1420	1520	1440	N04	E07	.123	8556	25.1	60	1								
GRP 1308	24	1452	1543	1506	N14	E09	.217	8556	25.3	51	1-				1.33				5 4 4
ATHN	24	1431	1521D	1505	N13	E12	.245	8556	25.5	50D	-B	2		1505	.99	1.10	2.00		
SACP	24	1502	1610	1504	N15	E08	.218	8556	25.2	68	1N		C		2.37	2.33			
MCMA	24	1503	1520	1504	N15	E08	.218	8556	25.2	17	-B		C	1504	1.03	1.10			EHRV
CAPS	24	1505E	1517		N14	E10	.229	8556	25.4	12D	-B	2		1506	.60	.60		210	
LOCK	24	1511E	1603	1511U	N14	E08	.205	8556	25.2	52D	-B		C	1511	2.00	2.06		30	H

SOLAR FLARES

REVISED

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	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. %	
GRP 1309	24	1723	1736	1726	N25	W89	.999	8546	18.0	13	1+				1.23				3 2 3
HALE	24	1722	1742	1727	N24	W88	.998	8546	18.1	20	N	2	C	1727	.93				
LOCK	24	1723	1734	1725	N26	W90	.999	8546	18.0	11	2N		C	1725	2.00	8.00		20	
HUAN	24	1724	1733	1726	N24	W90	.999	8546	18.0	9	-N	1	C	1726	1.29				
GRP 1310	24	1745	1813	1750	N13	E11	.232	8556	25.6	28	1-				.18				1 1 1
HALE	24	1745	1813	1750	N13	E11	.232	8556	25.6	28	-N	2	C	1750	.15	.20			
GRP 1311	24	1808	1826	1816	N12	W89	.999	8546	18.1	18					.43				1 0 1
HALE	24	1808	1826	1816	N12	W89	.999	8546	18.1	18	N	2	C	1816	.36				
GRP 1312	24	2046	2055	2049	N23	W05	.317	8553	24.5	9	1-				.37				1 1 1
HALE	24	2046	2055	2049	N23	W05	.317	8553	24.5	9	-F	1	C	2049	.31	.32			
GRP 1313	25	0259	0316	0303	N15	W00	.172	8556	25.1	17	1-				.37				1 1 1
HALE	25	0259	0316	0303	N15	W00	.172	8556	25.1	17	-N	1	C	0303	.31	.32			
GRP 1314	25	0449	0510	0459	N16	W81	.985	8546	19.1	21	1-				.19				1 1 1
CULG	25	0449E	0510	0459	N16	W81	.985	8546	19.1	21D	-N		P	0459	.21				
GRP 1315	25	0631	0646	0634	N14	W00	.155	8556	25.3	15	1-				.37				2 2 2
CULG	25	0630	0647D	0633	N14	W01	.156	8556	25.2	17D	-N		P	0633	.41				L
ATHN	25	0632	0644	0634	N13	E02	.142	8556	25.4	12	-N	2		0634	.33	.33	1.40		
GRP 1316	25	0655	0717	0657	N13	E00	.138	8556	25.3	22	1-				.37				3 1 1
ATHN	25	0655E	0708	0657	N13	E02	.142	8556	25.4	13D	-N	2		0657	.33	.30	1.30		
ISTA	25	0705E	0710		N13	W01	.139	8556	25.2	5D	-N								
BUCA	25	0707E	0734D	0726	N14	W01	.156	8556	25.2	27D	-B		C	0726	1.10	1.10			D
GRP 1317	25	0719	0731	0725	N15	W01	.173	8556	25.2	12	1-				.80				4 4 4
TACH	25	0718E	0729D	0726	N15	W02	.176	8556	25.2	11D	-B		C	0726	.64	.64	2.90	78	D
ATHN	25	0720	0732	0724	N15	W01	.173	8556	25.2	12	-B	2		0724	.99	1.00	2.00		
MANI	25	0722E	0725D		N14	E00	.155	8556	25.3	3D	-N	1		0723	.93	.98			
KAND	25	0725E	0730		N14	W01	.156	8556	25.2	5D	-N			0725	.75	.74			C
GRP 1318	25	0754	0806		S24	W22	.590	8561	23.7	12	1-				.23				1 1 1
BUCA	25	0754E	0806D		S24	W22	.590	8561	23.7	12D	-N		C	0758	.33	.40			
GRP 1319	25	0757	0818	0759	N15	W02	.176	8556	25.2	21	1-				.80				4 4 4
ZURI	25	0756	0800	0758	N14	W04	.170	8556	25.0	4	-N		V	0758	1.05	1.10			
TACH	25	0756E	0826D	0758	N15	W02	.176	8556	25.2	30D	-B		C	0758	.72	.74	2.10	140	DH
ATHN	25	0757	0815	0800	N15	W01	.173	8556	25.3	18	-N	2		0800	.66	.70	1.60		
BUCA	25	0757	0832D	0758	N14	W01	.156	8556	25.3	35D	-B		C	0758	1.66	1.60			DK
GRP 1320	25	0925	0941		S24	W22	.590	8561	23.7	16	1-				.46				1 1 1
BUCA	25	0925E	0941		S24	W22	.590	8561	23.7	16D	-N		C	0930	.66	.80			
GRP 1321	25	0936	0946	0937	N15	W02	.176	8556	25.3	10	1-				.29				2 2 2
ATHN	25	0936	0942	0937	N15	W02	.176	8556	25.3	6	-N	2		0937	.17	.20	1.40		
BUCA	25	0936E	0950		N14	W01	.156	8556	25.3	14D	-N		C	0938	.56	.60			D
GRP 1322	25	1311	1333	1313	N29	W30	.604	8558	23.3	22	1-				.32				1 1 1
ATHN	25	1311	1333	1313	N29	W30	.604	8558	23.3	22	-F	2		1313	.33	.80	1.30		
GRP 1323	25	1615	1655	1622	N13	W01	.139	8556	25.6	40	1-				.50				1 1 1
LOCK	25	1615	1655	1622	N13	W01	.139	8556	25.6	40	-F		C	1622	.50	.52		10	L
GRP 1324	25	1651	1724	1701	N23	W25	.501	8553	23.8	33	1-				.57				2 2 2
LOCK	25	1645	1720	1700	N23	W25	.501	8553	23.8	35	-F		C	1700	.80	.90		10	
HALE	25	1656	1727	1701U	N23	W24	.489	8553	23.9	31	-N	1	C	1701	.26	.30			
GRP 1325	25	1837	1854	1839	N28	W36	.658	8558	23.1	17	1-				.73				3 3 3
HALE	25	1835	1902	1839	N29	W36	.664	8558	23.1	27	-N	1	C	1839	.41	.60			
SACP	25	1838	1845U	1839	N27	W36	.652	8558	23.1	7U	-F		C		.92	1.03			
MCMA	25	1838E	1855		N28	W37	.668	8558	23.0	17D	-N		P	1839	.62	.80			E
GRP 1326	26	0928	0943	0928	N25	W25	.519	8553	24.5	15	1-				1.66				2 1 1
ATHN	26	0926	0943	0928	N24	W24	.499	8553	24.6	17	-N	2		0928	1.49	1.70	1.40		
KAND	26	0929	0942		N25	W26	.530	8553	24.4	13	-N								C
GRP 1327	26	1309	1344	1314	N29	W08	.426	8555	25.9	35	1-				2.46				4 3 3
MCMA	26	1308	1354		N30	W08	.440	8555	25.9	46	-N		C	1322	1.55	1.70			FL
ATHN	26	1309	1337	1314	N28	W06	.402	8555	26.1	28	1N	2		1314	3.30	3.50	1.80		
HUAN	26	1313E	1339		N28	W09	.416	8555	25.9	26D	-N	2	P	1320	1.08	1.10			E
SACP	26	1327E	1344	1332	N28	W09	.416	8555	25.9	17D	-F		C		1.92	1.93			
GRP 1328	26	1453	1503	1456	S27	W37	.743	8561	23.8	10	1-				.38				2 2 2
MCMA	26	1453	1502		S27	W37	.743	8561	23.8	9	-N		C	1457	.31	.50			DH
HUAN	26	1453	1503	1456	S27	W37	.743	8561	23.8	10	-N	2	C	1456	.36	.44			D
GRP 1329	26	1534	1546		S27	W37	.743	8561	23.9	12	1-				.28				1 1 1
HUAN	26	1534	1546		S27	W37	.743	8561	23.9	12	-F	1	C	1536	.31	.38			D
GRP 1330	26	1550	1618	1601	S27	W38	.751	8561	23.8	28	1-				.78				2 2 2
HUAN	26	1550	1616	1600	S26	W38	.745	8561	23.8	26	-N	2	C	1600	.62	.77			
MCMA	26	1550	1620D	1601	S27	W37	.743	8561	23.9	30D	-B		C	1601	.72	1.10			DH
GRP 1331	26	1654	1717	1658	S27	W39	.760	8561	23.8	23	1-				.57				2 2 2
HUAN	26	1654	1713		S26	W40	.762	8561	23.7	19	-F	1	C	1656	.46	.58			D
MCMA	26	1654	1720D	1658	S27	W37	.743	8561	23.9	26D	-B		C	1658	.52	.80			D
GRP 1332	26	1748	1802	1750	N22	W29	.542	8556	24.6	14	1-				.37				1 1 1
HALE	26	1748	1802	1750	N22	W29	.542	8556	24.6	14	-N	1	C	1750	.31	.40			
GRP 1333	26	1755	1808	1757	S26	W39	.753	8561	23.8	13	1-				.43				2 2 2
MCMA	26	1754	1803	1756	S27	W37	.743	8561	24.0	9	-N		C	1756	.26	.40			D
HALE	26	1756	1812	1758	S24	W40	.750	8561	23.7	16	-N	1	C	1758	.41	.60			T

SOLAR FLARES

REVISED

OCTOBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	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. %	
GRP 1334	26	1826	1855	1835	S26	W39	.753	8561	23.8	29	1-				.70				3 3 3
LOCK	26	1825	1845	1835	S25	W40	.756	8561	23.8	20	-N		C	1835	.80	1.20		20	J
MCMA	26	1825	1905	1835	S27	W37	.743	8561	24.0	40	-B		C	1835	.52	.80			DH
HUAN	26	1829	1840D		S26	W40	.762	8561	23.8	11D	-N	1	C	1834	.62	.77			
GRP 1335	26	1925	1942	1926	S26	W40	.762	8561	23.8	17	1-				.68				4 4 4
LOCK	26	1923	1945	1926	S25	W40	.756	8561	23.8	22	-N		C	1926	.90	1.40		10	J
HALE	26	1925	1938	1926	S24	W40	.750	8561	23.8	13	-N	1	C	1926	.41	.60			T
HUAN	26	1925	1938		S26	W41	.770	8561	23.7	13	-N	1	C	1928	.83	1.02			
MCMA	26	1925	1945	1927	S27	W37	.743	8561	24.0	20	-B		C	1927	.41	.60			D
GRP 1336	26	1935	2000	1943	S16	W24	.525	8554	25.0	25	1-				.29				1 1 1
LOCK	26	1935	2000	1943	S16	W24	.525	8554	25.0	25	-F		C	1943	.30	.40		10	
GRP 1337	26	2015	2040	2020	S25	W40	.756	8561	23.8	25	1-				.61				1 1 1
LOCK	26	2015	2040	2020	S25	W40	.756	8561	23.8	25	-F		C	2020	.60	.90		10	J
GRP 1338	26	2053	2124	2111	S21	W41	.742	8561	23.8	31	1				1.69				2 2 2
LOCK	26	2053	2120	2111	S25	W40	.756	8561	23.9	27	1F		C	2111	2.10	3.20		10	
CULG	26	2055E	2127	2110	S16	W41	.715	8561	23.8	32D	-N		P	2110	1.03	1.60			
GRP 1339	26	2106	2120	2111	N28	W42	.720	8558	23.7	14	1				2.35				1 1 1
SACP	26	2106	2120	2111	N28	W42	.720	8558	23.7	14	1N		C		2.61	3.32			
GRP 1340	26	2142	2200	2146	S25	W40	.756	8561	23.9	18	1-				1.17				1 1 1
LOCK	26	2142	2200	2146	S25	W40	.756	8561	23.9	18	-F		C	2146	1.10	1.70		10	
GRP 1341	26	2227	2236	2230	S26	W42	.779	8561	23.8	9	1-				.37				1 1 1
HALE	26	2227	2236	2230	S26	W42	.779	8561	23.8	9	-F	1	C	2230	.31	.50			T
GRP 1342	26	2327	2340	2331	S21	W42	.751	8561	23.8	13	1-				.33				2 2 2
HALE	26	2326	2339	2332	S25	W43	.782	8561	23.8	13	-F	1	C	2332	.31	.50			
CULG	26	2328	2341	2330	S16	W41	.715	8561	23.9	13	-N		C	2330	.31	.48			
GRP 1343	27	0107	0121	0110	S22	W44	.774	8561	23.7	14	1-				.26				3 3 3
HALE	27	0107	0115	0109	S25	W44	.790	8561	23.7	8	-N	1	C	0109	.31	.50			
MANI	27	0107E	0115		S24	W42	.767	8561	23.9	8D	-N	2		0109	.15	.24			
CULG	27	0107	0132	0110	S17	W45	.761	8561	23.7	25	-N		C	0110	.31	.48			
GRP 1344	27	1419	1522	1425	N14	W28	.486	8556	25.5	63	1				2.21				4 4 4
SACP	27	1416	1530U	1444	N13	W29	.496	8556	25.4	74U	1N		C		2.52	2.59			
HUAN	27	1420	1520		N14	W26	.457	8556	25.6	60	1F	1	C	1444	2.06	2.10			
MCMA	27	1420	1525	1425	N14	W27	.471	8556	25.6	65	1N		C	1425	1.13	1.30			F
ATHN	27	1423E	1513	1426	N13	W30	.510	8556	25.3	50D	1N	1		1426	2.64	3.10	1.80		
GRP 1345	28	0001	0038	0006	S22	W61	.909	8561	23.4	37	1-				.47				2 2 2
CULG	28	0001	0038	0004	S22	W62	.915	8561	23.4	37	-N		C	0004	.31				
SACP	28	0002E	0016D	0008	S21	W59	.893	8561	23.6	14D	-N		C		.72	1.15			
GRP 1346	28	0305	0320	0310	N31	W25	.576	8555	26.3	15	1-				.18				1 1 1
HALE	28	0305	0320	0310	N31	W25	.576	8555	26.3	15	-N	1	C	0310	.15	.20			
	28	1155	1230	NO FLARE PATROL															
	28	1235	1245	NO FLARE PATROL															
GRP 1347	28	1303	1309	1303	S29	W60	.919	8561	24.0	6	1-				.35				1 1 1
ATHN	28	1303E	1309	1303	S29	W60	.919	8561	24.0	6D	-N	1		1303	.33	.80	1.70		
GRP 1348	28	1329	1415	1343	S26	W64	.934	8561	23.8	46	1-				.77				1 1 1
SACP	28	1329E	1415	1343	S26	W64	.934	8561	23.8	46D	-N		C		.86	1.56			
GRP 1349	28	1554	1603	1557	N21	E04	.287	8566	29.0	9	1-				.21				2 2 2
SACP	28	1553	1606	1557	N21	E04	.287	8566	29.0	13	-N		C		.25	.24			
LOCK	28	1554	1600	1557	N21	E04	.287	8566	29.0	6	-F		C	1557	.20	.21		10	
GRP 1350	28	2030	2115	2042	N13	W48	.744	8556	25.3	45	1-				.95				2 2 2
HALE	28	2029	2120	2044	N14	W49	.756	8556	25.2	51	-N	1	C	2044	.52	.80			
LOCK	28	2030	2110	2040	N12	W47	.731	8556	25.3	40	-N		C	2040	1.20	1.80		20	L
GRP 1351	29	0152	0230	0204	N12	W52	.787	8556	25.2	38	1-				.31				2 2 2
CULG	29	0146E	0225	0202	N12	W53	.797	8556	25.1	39D	-N		P	0202	.21	.32			
HALE	29	0157	0234D	0205	N12	W51	.776	8556	25.3	37D	-N	1	P	0205	.36	.60			
GRP 1352	29	0551	0603	0553	S26	W79	.991	8561	23.3	12	1-				.19				1 1 1
CULG	29	0551	0603D	0553	S26	W79	.991	8561	23.3	12D	-N		P	0553	.21				
GRP 1353	29	0601	0613	0603	N18	E25	.467	8567	31.1	12	1-				1.06				1 1 1
ATHN	29	0601	0613	0603	N18	E25	.467	8567	31.1	12	-B	2		0603	.99	1.10	2.00		
GRP 1354	29	0805	0906	0840	N22	E23	.473	8567	31.1	61	1-				.63				3 3 3
BUCA	29	0707E	0940D		N22	E23	.473	8567	31.0	153D	-N		P	0910	1.10	1.20			EK
ATHN	29	0833	0855	0836	N22	E22	.461	8567	31.0	22	-N	2		0836	.66	.70	1.40		
UCCL	29	0834	0844	0843	N21	E25	.488	8567	31.2	10	-N		C	0843	.62	.70			E
GRP 1355	29	0835	0920		N22	W69	.932	8553	24.2	45	1-				.39				1 1 1
BUCA	29	0835E	0920D		N22	W69	.932	8553	24.2	45D	-N		C	0841	.56				DG
GRP 1356	29	1142	1205	1145	N13	W52	.788	8556	25.6	23	1-				2.48				1 1 1
ATHN	29	1142	1205	1145	N13	W52	.788	8556	25.6	23	1F	2		1145	2.31	3.70	1.30		
GRP 1357	29	1620	1638	1629	N22	E78	.975	8568	4.5	18	1-				.30				1 1 1
SACP	29	1620	1638	1629	N22	E78	.975	8568	4.5	18	-N		C		.33	.81			
GRP 1358	29	1825	1838	1829	N22	E19	.427	8567	31.2	13	1-				.27				2 2 2
LOCK	29	1824	1838	1829	N23	E19	.437	8567	31.2	14	-F		C	1829	.30	.32		10	
HALE	29	1826	1830D	1829	N21	E18	.405	8567	31.1	4D	-N	1	P	1829	.21	.21			
GRP 1359	29	1908	1927	1914	N22	E19	.427	8567	31.2	19	1-				.36				2 2 2
LOCK	29	1905	1925	1915	N23	E19	.437	8567	31.2	20	-F		C	1915	.40	.42		10	
HALE	29	1910	1928U	1912	N21	E18	.405	8567	31.1	18U	-N	1	P	1912	.26	.30			

SOLAR FLARES

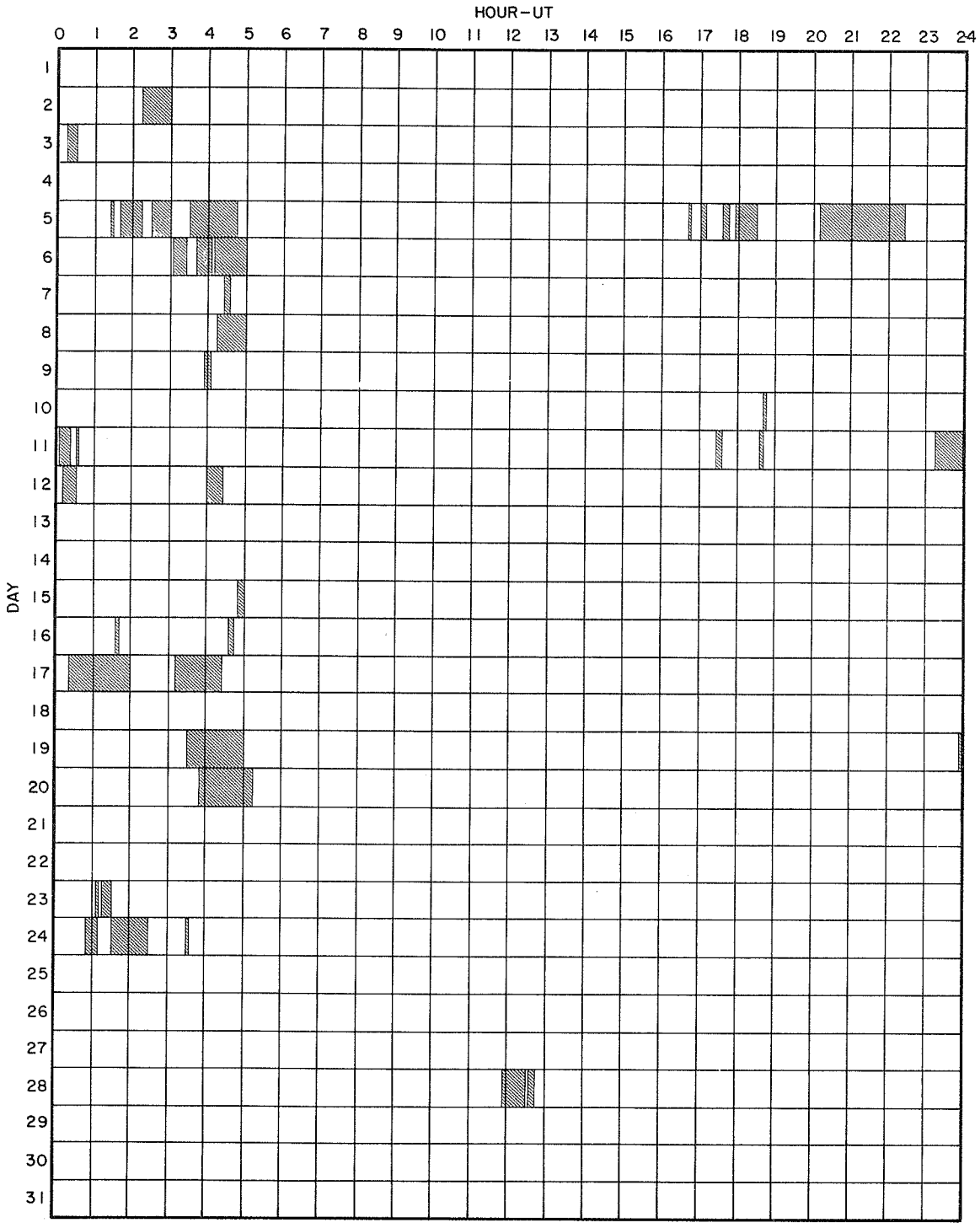
REVISED

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	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. %	
GRP 1360	29	1930	1953	1940	N23	E19	.437	8567	31.2	23	1-				.40				1 1 1
LOCK	29	1930	1953	1940	N23	E19	.437	8567	31.2	23	-F		C	1940	.40	.42		10	
GRP 1361	29	2130	2142	2135	N24	E17	.427	8567	31.2	12	1-				.40				1 1 1
LOCK	29	2130	2142	2135	N24	E17	.427	8567	31.2	12	-F		C	2135	.40	.42		10	
GRP 1362	29	2253	2306	2257	N23	E19	.437	8567	31.4	13	1-				.29				1 1 1
LOCK	29	2253	2306	2257	N23	E19	.437	8567	31.4	13	-F		C	2257	.30	.32		10	
GRP 1363	30	0100	0105	0102	N22	W16	.396	8566	28.8	5	1-				.25				1 1 1
HALE	30	0100	0105	0102	N22	W16	.396	8566	28.8	5	-F	1	C	0102	.21	.22			
GRP 1364	30	0107	0120	0109	N23	W14	.388	8566	29.0	13	1-				.12				2 1 1
HALE	30	0107	0120	0109	N23	W14	.388	8566	29.0	13	-F	1	C	0109	.10	.11			
MANI	30	0113E	0120D		N22	W13	.366	8566	29.1	7D	-N	1		0113	.52	.55			
GRP 1365	30	0145	0219	0146	N12	W65	.903	8556	25.2	34	1-				.67				2 2 2
MITK	30	0145	0218	0146	N12	W65	.903	8556	25.2	33	1F		C	0146	1.03	2.30		120	EG
HALE	30	0145	0220		N12	W65	.903	8556	25.2	35	-N	1	C	0200	.52	1.20			
GRP 1366	30	0713	0721	0714	N22	W21	.450	8566	28.7	8	1-				.69				1 1 1
ATHN	30	0713	0721	0714	N22	W21	.450	8566	28.7	8	-N	2		0714	.66	.70	1.70		
GRP 1367	30	1311	1341	1313	N33	W01	.476	8560	30.5	30	1-				.51				1 1 1
ATHN	30	1311	1341	1313	N33	W01	.476	8560	30.5	30	-N	2		1313	.50	.60	1.40		
GRP 1368	30	1622	1631	1625	N13	E90	1.000	8571	6.4	9	1-				.16				1 1 1
LOCK	30	1622	1631	1625	N13	E90	1.000	8571	6.4	9	-F		C	1625	.20	.80		10	
GRP 1369	30	1652	1704	1657	N22	W22	.462	8566	29.1	12	1-				.61				1 1 1
LOCK	30	1652	1704	1657	N22	W22	.462	8566	29.1	12	-F		C	1657	.60	.70		10	L
GRP 1370	30	1956	2002	1958	N23	W25	.505	8566	29.0	6	1-				.39				2 2 2
LOCK	30	1955	2001	1957	N23	W25	.505	8566	29.0	6	-N		C	1957	.40	.43		10	H
HALE	30	1957	2002	1958	N23	W24	.494	8566	29.0	5	-N	2	C	1958	.31	.40			
GRP 1371	30	2015	2037	2023	N23	W25	.505	8566	29.0	22	1-				.19				1 1 1
LOCK	30	2015	2037	2023	N23	W25	.505	8566	29.0	22	-F		C	2023	.20	.22		10	
GRP 1372	30	2021	2029	2024	N13	E90	1.000	8571	6.6	8	1-				.25				1 1 1
LOCK	30	2021	2029	2024	N13	E90	1.000	8571	6.6	8	-F		C	2024	.30	1.20		10	
GRP 1373	30	2113	2125	2116	S16	W77	.981	8554	25.1	12	1-				.34				1 1 1
LOCK	30	2113	2125	2116	S16	W77	.981	8554	25.1	12	-F		C	2116	.40	1.20		10	
GRP 1374	31	0049	0055	0050	N24	W26	.526	8566	29.1	6	1-				.25				1 1 1
HALE	31	0049	0055	0050	N24	W26	.526	8566	29.1	6	-F	1	C	0050	.21	.22			T
GRP 1375	31	0140	0228	0210	N27	W59	.870	8555	26.6	48	1-				.62				1 1 1
HALE	31	0140	0228	0210	N27	W59	.870	8555	26.6	48	-F	1	C	0210	.52	1.00			
GRP 1376	31	0218	0231	0223	N18	W23	.442	8566	29.4	13	1-				.25				1 1 1
HALE	31	0218	0231	0223	N18	W23	.442	8566	29.4	13	-N	1	C	0223	.21	.22			T
GRP 1377	31	0258	0310	0300	N30	E66	.921	8568	5.1	12	1-				.25				1 1 1
HALE	31	0258	0310	0300	N30	E66	.921	8568	5.1	12	-F	1	C	0300	.21				T
GRP 1378	31	1443	1452	1447	N26	W68	.929	8555	26.5	9	1-				.60				1 1 1
SACP	31	1443	1452	1447	N26	W68	.929	8555	26.5	9	-F		C		.67	1.19			
GRP 1379	31	1824	1850	1828	N30	W76	.969	8555	26.1	26	1-				.37				1 1 1
HALE	31	1824	1850	1828	N30	W76	.969	8555	26.1	26	-F	1	C	1828	.31				T
GRP 1380	31	1859	1922	1904	N18	E82	.988	8571	6.9	23	1				1.18				4 4 3
SACP	31	1858	1908	1901	N19	E82	.988	8571	6.9	10	-N		C		.84				
LOCK	31	1859	1925	1905	N18	E82	.988	8571	6.9	26	2N		C	1905	2.20	7.90		20	H
MCMA	31	1900	1926	1905	N16	E85	.994	8571	7.2	26	-B		C						
HALE	31	1900U	1928	1905U	N18	E79	.979	8571	6.7	28U	1B	1	P	1905	.62				T
GRP 1381	31	1909	1922	1913	N22	W09	.335	8567	31.1	13	1-				.30				2 2 2
LOCK	31	1907	1922	1912	N22	W08	.328	8567	31.2	15	-F		C	1912	.30	.32		10	
SACP	31	1910	1921	1914	N21	W09	.320	8567	31.1	11	-F		C		.33	.33			

INTERVALS OF NO FLARE PATROL OBSERVATIONS

OCTOBER 1966



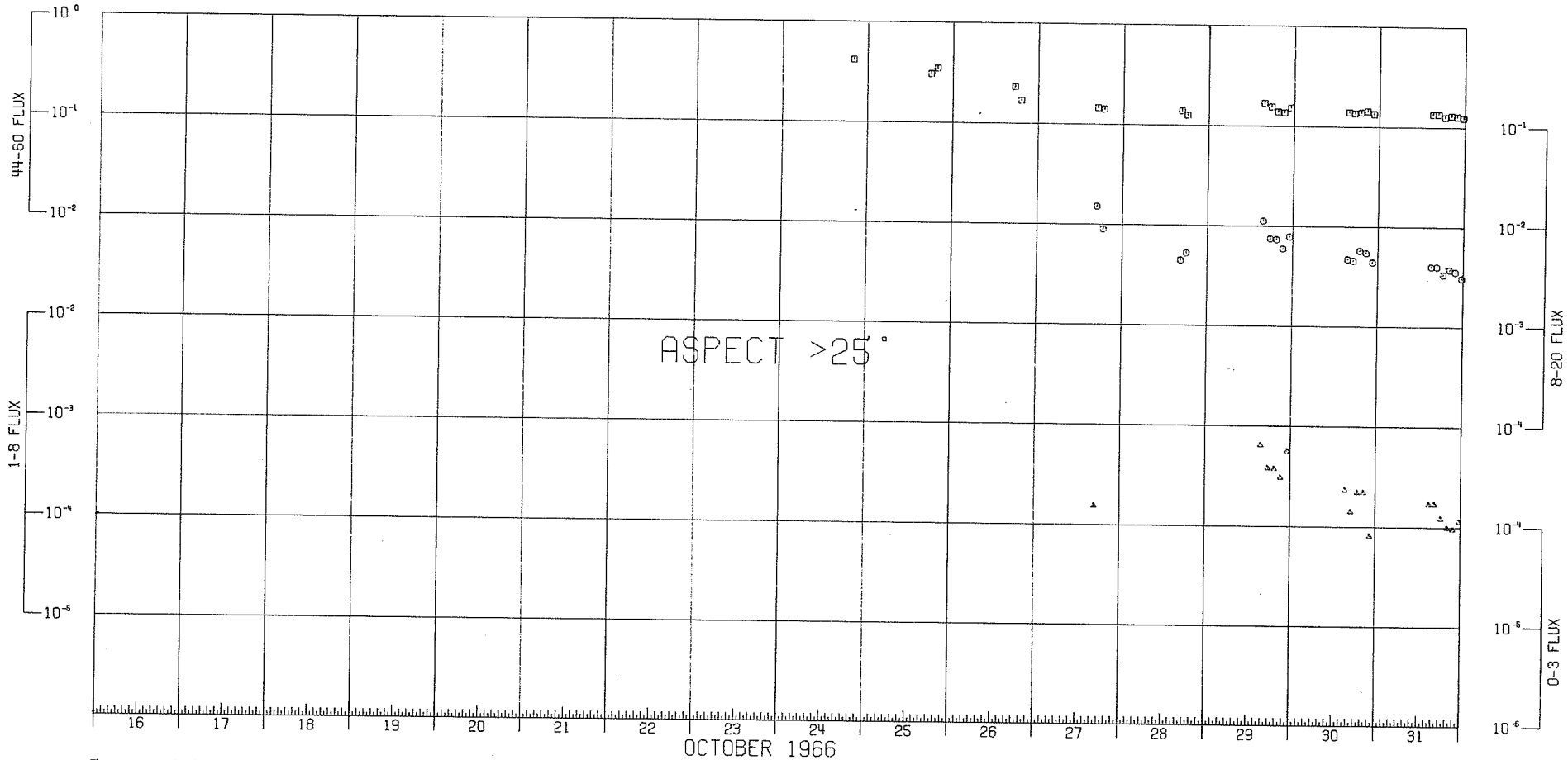
Observatories included:

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

SOLAR RADIATION MONITORING SATELLITE
X-RAY

OCTOBER 1966

NRL



The aspect angle for October 1-15 was greater than 25° and no data was plotted for that time.

107
Oct 66

SOLAR RADIATION MONITORING SATELLITE

NOVEMBER 1966

Aberdeen, South Dakota

OUTSTANDING EVENTS

DATE	TIMES OF OBSERVATION	44-60A	8-20A	0-8A	0-3A
Nov. 6	0033 0041	2.2×10^{-1}	1.5×10^{-2}	----	1.4×10^{-5}
	0217 0222	----	4.3×10^{-2}	----	1.3×10^{-4}
7	1816 1827	3.0×10^{-1}	1.6×10^{-2}	1.5×10^{-3}	2.5×10^{-5}
	2002 2011	2.1×10^{-1}	3.3×10^{-2}	2.5×10^{-3}	2.2×10^{-5}

USCOMM-ESSA-ASHEVILLE-4/28/67-1000