U.S. DEPARTMENT OF COMMERCE
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ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
Robert M. White, Administrator

ENVIRONMENTAL DATA SERVICE
Woodrow C. Jacobs, Director

INSTITUTES FOR ENVIRONMENTAL RESEARCH

Solar-Geophysical Data

Number 276

for July 1967
June 1967
February 1967
& Miscellanea

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

WASHINGTON, D.C.
AUGUST 1967

IER-FB-276

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

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for July 1967 Data

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

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ALERT PERIODS

INTERNATIONAL URSIGRAM
AND WORLD DAYS SERVICE

JULY 1967

Jul. 1967	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
23	0400		531	Solar Flares	Expected	N25 E72
24	0400		532	" "	"	N25 E62 N12 E74
25	0400		533	" "	"	N25 E49 N12 E61
26	0400		534	" "	"	N25 E36 N12 E48
27	0400		535	" "	"	N26 E17 N13 E34
28	0400		536	" "	"	N26 E05 N14 E21
29	0400		537	" "	"	N27 W10 N16 E07
30	0400 0650	ADALERTPRESTO Carnarvon TENFLARE 200 percent 300613Z	538	" "	"	N27 W20 N17 W05
31	0400		539	" "	"	N27 W35 N17 W20

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

	1966 (FINAL)					1967 (PROVISIONAL)						
DAY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY
1	78	44	57	43	35	60	93	172	105	74	123	69
2	74	44	55	42	33	93	88	179	79	77	113	83
3	72	25	50	38	30	124	92	191	54	46	92	87
4	68	18	36	38	57	148	100	172	52	62	93	92
5	60	26	40	20	69	150	72	164	62	66	79	98
6	50	30	44	32	68	148	89	148	63	46	76	97
7	33	36	53	48	64	134	138	137	79	41	55	70
8	13	38	48	55	88	116	109	98	104	18	36	78
9	13	39	44	59	86	111	112	85	67	25	22	67
10	0	37	65	63	112	111	97	86	62	17	17	54
11	16	42	66	72	125	104	96	74	62	25	17	53
12	36	38	64	80	130	90	79	65	51	34	19	59
13	30	33	72	68	118	86	77	49	63	29	19	53
14	37	35	64	66	113	85	58	44	48	38	20	66
15	41	38	60	66	107	56	58	49	51	36	30	80
16	40	57	70	52	116	56	60	58	32	35	38	73
17	41	76	70	59	88	59	60	70	42	38	57	67
18	39	83	70	57	76	72	70	73	58	48	60	78
19	33	76	76	65	57	82	57	58	56	70	65	61
20	28	78	96	74	46	82	60	73	44	74	79	41
21	22	89	91	77	37	102	71	88	60	96	61	62
22	38	86	83	78	34	134	86	108	76	118	83	73
23	65	71	75	76	38	152	84	111	94	137	80	93
24	71	67	64	72	45	122	100	121	74	156	92	90
25	89	68	50	74	60	133	106	131	78	159	92	106
26	95	54	47	67	65	136	123	137	66	174	79	116
27	90	48	39	59	48	130	186	122	55	194	52	122
28	84	42	36	41	48	125	166	120	76	197	80	164
29	89	45	27	37	51	122		130	79	148	59	154
30	76	42	27	37	70	132		130	66	139	89	165
31	66		35		68	108		115		127		152
MEAN	51.2	50.2	57.2	57.2	70.4	108.5	92.4	108.3	65.3	82.1	62.6	87.8

DAILY SOLAR FLUX AT 2800 Mc/s
OTTAWA ARO

FLUX ADJUSTED TO 1 A.U., S_a

	1966					1967						
DAY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY
1	125.9	116.6	101.4	94.6	92.2	124.4	151.6	194.2	158.6	136.6	174.6	125.0
2	119.6	106.3	102.0	96.7	95.1	143.0*	143.5	197.8*	141.0	131.8	158.0*	125.7
3	118.2*	103.2	103.2	93.1	—	154.0	138.7	196.4*	133.3	BURST	150.4	129.6
4	116.0*	101.9	100.6*	91.7	104.8	160.7	137.3*	205.9*	125.0	125.8	148.4	127.2
5	110.5	100.5	100.0	97.9	110.9*	168.2	146.8*	179.2*	122.1	128.1	138.7	123.7
6	106.0	97.9	101.9*	104.7	115.6*	160.5	148.8	177.4*	119.0	122.8	130.5	116.6
7	101.5	95.8*	103.1	113.4	117.7	153.6	162.5	163.8	126.2*	119.7	119.1	116.0
8	97.7	96.2*	99.4	116.9	123.7	142.9	148.3	156.1	135.7	116.9	110.1	111.8
9	96.4	95.3	103.5	117.2	146.2	144.7	145.9	157.9	133.3	113.6	103.7	109.7
10	94.3	93.9	106.5	121.9	157.3*	145.6	140.5	148.4	130.3	109.4	97.1	105.8
11	92.5	96.6	109.8	126.1	162.8*	139.8	133.7	141.6	131.1*	106.1	96.9	107.1
12	92.8	100.8*	114.8	126.2	157.6	139.1	132.9	134.3	129.8*	109.7	96.5	106.1
13	93.2	102.4	122.8*	126.4	155.5	138.1	130.0	129.1	126.8	107.3	99.8	113.8
14	92.8	107.4	120.3	124.0	149.5	135.2	129.2	127.2	133.5	108.6*	103.8	122.4*
15	93.7	112.0	120.6	122.6	144.9	126.6	126.4	132.4	124.1	111.0	107.2	127.6
16	95.1	124.6*	120.3*	121.2	135.1	120.2	124.9	132.1	126.1	113.1	111.8	130.1
17	96.8	129.1	120.5*	113.2	124.9*	116.9	122.2*	132.6	125.9	115.4	112.0	129.6
18	97.5	142.6	118.5*	113.4	111.2	117.4	124.2	132.2	128.7	124.8	115.4	131.3
19	100.0	146.6	115.6*	111.0	112.3	116.4	121.0	136.0	126.7	135.6*	119.0	128.6
20	101.6	146.0*	124.1	110.9	107.6	127.0	128.6	140.4	127.1	146.3	121.3	135.5
21	102.7	137.2	120.9*	110.7*	106.5	138.2	131.8*	147.2	134.0	160.3*	122.9	140.2
22	105.5	131.5*	119.8*	116.5	105.5*	139.9	146.0	149.5*	131.5	182.7	129.6	152.4
23	114.7	127.5*	111.1	114.7*	110.6*	148.8*	149.3*	155.7	128.0	194.0*	133.1*	161.8
24	122.0*	126.0	106.1	113.8	110.5	146.8	162.2	161.9	130.5	200.9	132.4	176.4
25	126.3*	118.8*	100.8	110.7	111.6	142.7*	159.5*	169.2	132.9	210.7	133.1	195.5
26	130.2	109.4	97.7	107.3	110.9	154.3	173.3*	163.9*	125.4	218.9*	127.8	199.9
27	133.4	102.9	92.0	111.1*	109.6	158.3	176.7	162.8*	129.2	213.8	131.5	213.2
28	132.6*	97.9	94.1	104.1	107.5	156.2	180.2	180.7	135.1	202.6	136.7	213.1*
29	129.8	98.6	99.7	98.0	109.3	158.2*		178.4	137.5	188.3	133.4	215.7
30	126.1	95.7	95.7	94.6*	115.1	159.0		175.8	135.3	177.4	126.1	211.6
31	120.9		97.1		120.5*	156.4		167.6*		175.4		188.9
MEAN	109.2	112.4	107.9	110.8	121.4	143.0	143.4	159.0	130.8	146.9	124.0	144.9

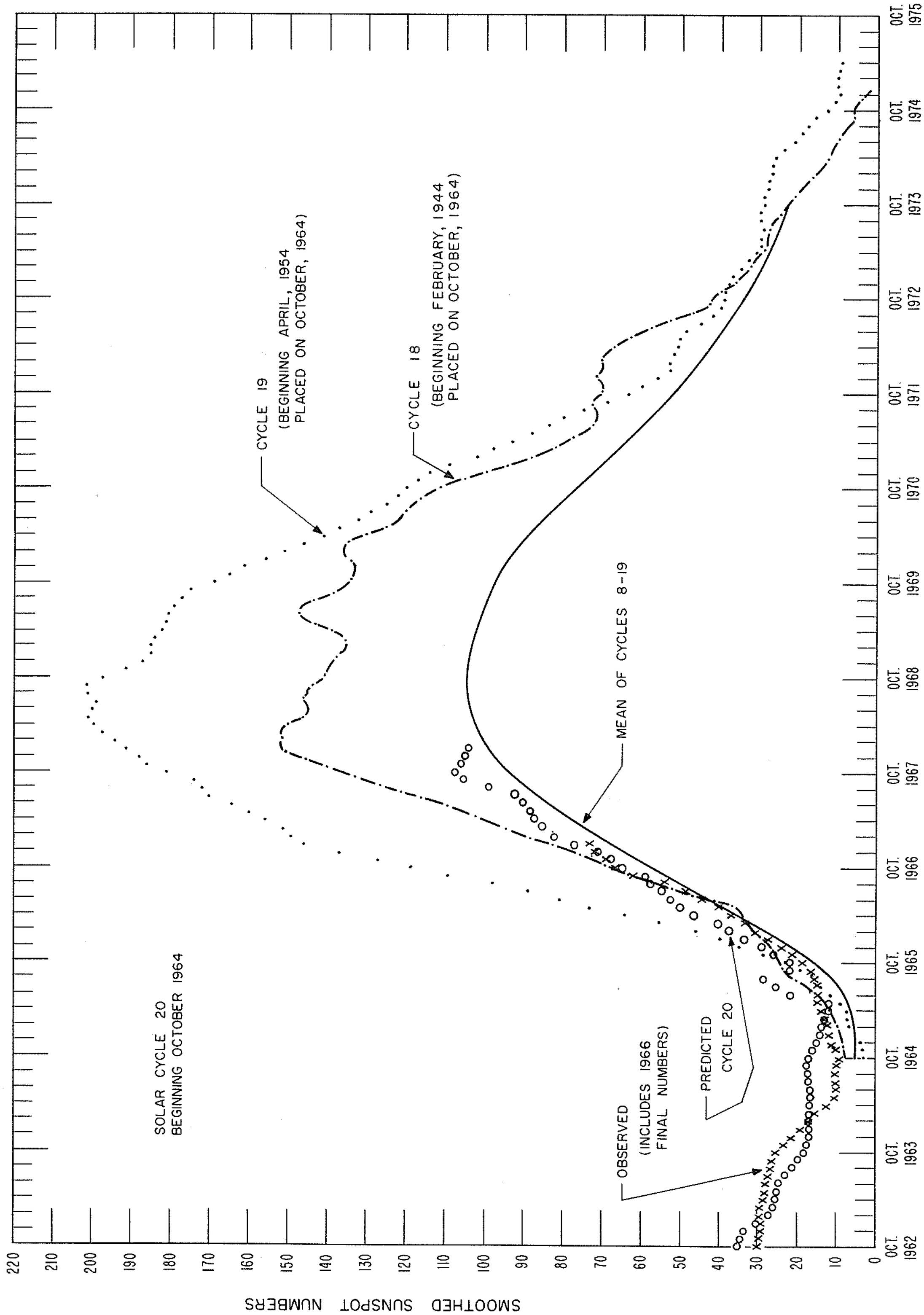
* Adjusted for Burst

DAILY SOLAR INDICES

JULY 1967

JUL. 1967	YEAR DAY	BARTELS 27-DAY CYCLE NUMBER	SUNSPOT NUMBERS R_Z	SUNSPOT NUMBERS $R_{A'}$	OBSERVED FLUX OTTAWA 2800	SOLAR FLUX ADJUSTED TO I A.U. AFCRL 8800	AFCRL 4995	OTTAWA 2800	AFCRL 2695	AFCRL 1415	AFCRL 606
01	182	15	69	60	120.9	289	160	125.0	105.2	71.4	56.4
02	183	16	83	76	121.6	289	158	125.7	104.6	71.8	56.0
03	184	17	87	76	125.3	291	160	129.6	110.4	74.6	55.2
04	185	18	92	80	123.0	285	159	127.2	108.4	69.1	57.4
05	186	19	98	87	119.6	282	160	123.7	105.7	70.8	53.5
06	187	20	97	87	112.8	281	159	116.6	101.7	65.1	51.8
07	188	21	70	76	112.2	279	150	116.0	98.6	66.0	51.6
08	189	22	78	74	108.1	273	145	111.8	90.8	62.6	51.1
09	190	23	67	73	106.1	277	146	109.7	94.3	63.6	50.4
10	191	24	54	57	102.3	276	147	105.8	93.6	58.4	49.9
11	192	25	53	53	103.6	273	148	107.1	93.2	60.4	49.8
12	193	26	59	52	102.7	273	145	106.1	91.6	60.7	49.8
13	194	27	53	55	110.2	282	150	113.8	94.7	63.4	49.4
14	195	1	66	81	118.5*	294	164	122.4*	105.2	66.4	50.6
15	196	2	80	82	123.5	291	165	127.6	110.5	69.7	53.5
16	197	3	73	77	125.9	294	162	130.1	107.3	72.6	53.2
17	198	4	67	68	125.5	293	162	129.6	106.6	72.6	54.8
18	199	5	78	57	127.1	297	160	131.3	113.1	76.9	56.4
19	200	6	61	29	124.5	297	155	128.6	107.1	74.8	56.8
20	201	7	41	33	131.2	302	167	135.5	114.7	81.9	58.1
21	202	8	62	61	135.9	308	173	140.2	114.9	81.1	58.9
22	203	9	73	61	147.7	323	198	152.4	122.6	87.8	63.1
23	204	10	93	73	156.8	332	211	161.8	129.9	90.4	63.0
24	205	11	90	82	170.9	348	228	176.4	143.3	92.8	65.5
25	206	12	106	94	189.4	375	246	195.5	156.1	98.7	65.5
26	207	13	116	115	193.7	377	254	199.9	153.3	103.9	66.3
27	208	14	122	143	206.8	374	258	213.2	162.5	106.2	68.3
28	209	15	164	153	206.7*	368	271	213.1*	181.7	113.3	72.0
29	210	16	154	144	209.2	350	252	215.7	181.9	101.8	67.9
30	211	17	165	151	205.2	341	232	211.6	164.6	104.8	64.6
31	212	18	152	143	183.4	330	220	188.9	150.5	97.3	64.6
MEAN		.	87.8	82.4	140.3	308	183	144.9	120.0	79.1	57.6

* Adjusted for burst



PREDICTED AND OBSERVED SUNSPOT NUMBERS

SMOOTHED OBSERVED SUNSPOT NUMBERS
ZURICH, R_Z

	1964	1965	1966	1967
JAN		11.7	27.7	73.1
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	66.8	
NOV	10.2	22.3	69.0	
DEC	11.0	24.5	71.2	

CALCIUM PLAGE AND SUNSPOT REGIONS

JULY 1967

July 1967	LAT.	MCMATH PLAGE NUMBER	RETURN OF REGION	CALCIUM PLAGE DATA: CMP VALUES AREA	CALCIUM PLAGE DATA: CMP VALUES INT.	CALCIUM PLAGE DATA: HISTORY	CALCIUM PLAGE DATA: AGE (ROTATIONS)	CALCIUM PLAGE DATA: DATE FIRST SEEN	CALCIUM PLAGE DATA: DURATION (DAYS)	SUNSPOT DATA: CMP VALUES AREA	SUNSPOT DATA: CMP VALUES COUNT	SUNSPOT DATA: HISTORY
1.3	N27	8871	8831	4700	2.5	ℓ ∧ ℓ	2	6/24	15	210	2	ℓ - ℓ
2.2	N12	8874	New	500	2.5	b └ d	1	≤6/30	≥9	(10)	(3)	b - d
3.4	N34	8873	8835	1200	3.0	ℓ ∧ ℓ	2	6/27	12	10	2	b - d
4.5	S18	8875	New	3000	3.0	b ┌ ℓ	1	≤6/30	≥11	290	24	b ∧ ℓ
5.0	N19	8876	8837	3000	3.0	ℓ ┌ ℓ	2	<6/30	>12	310	5	ℓ ┐ ℓ
6.6	N06	8884	New	(400)	(2.0)	b - ℓ	1	7/9	4	(10)	(5)	b - d
7.1	S19	8877 (1)	New	2900	3.0	ℓ ∧ ℓ	2&1	6/30	14	10	6	ℓ - d
7.5	N23	8881	New	400	2.0	b - d	1	7/7	3			
9.9	N21	8880	New	4400	3.0	ℓ ┌ ℓ	1	7/3	14	20	3	ℓ └ d
										20	11	ℓ ┘ ℓ
11.2	S40	8882	New	(300)	(1.5)	b - d	1	7/7	2			
12.5	N20	8883	New	1400	2.5	b ∧ ℓ	1	7/7	11	(10)	(8)	ℓ - d
13.7	N24	8886	New	800	3.0	b / ℓ	1	7/9	11	20	12	b ∧ d
15.0	S12	8887	New	800	2.5	b ┘ ℓ	1	7/10	11	10	10	b - d
15.4	N19	8885	New	700	2.0	ℓ - ℓ	1	7/9	13	(10)	(1)	b - d
16.0	S20	8888	New	1000	2.5	ℓ / ℓ	1	7/10	12	20	5	b - d
16.9	N18	8890	8859	700	2.0	ℓ ∧ d	2	<7/13	>8			
17.4	S19	8889	8852	2000	3.0	ℓ ∧ ℓ	3	7/11	13	60	35	b ∧ ℓ
18.4	N26	8891 (2)	8854	1200	1.5	b ∧ ℓ	4	7/13	12	(10)	(4)	b - d
19.3	N18	8908	New	(400)	(3.0)	b - ℓ	1	7/23	3	(10)	(3)	b - d
19.4	N03	8910	New	(300)	(2.5)	b - ℓ	1	7/24	2			
19.7	N27	8893 (2)	8854	2500	2.0	ℓ ┐ ℓ	4	7/13	14			
20.0	N14	8896	New	(200)	(2.0)	b - d	1	7/15	2			
20.8	S20	8894	8858	2800	3.0	ℓ - ℓ	4	7/14	13	10	7	ℓ - d
21.5	N13	8895	New	1000	2.5	ℓ ┐ ℓ	1	7/15	12	(10)	(6)	ℓ \ d
22.1	N34	8897 (2)	8854	1400	2.0	ℓ ∧ ℓ	4	7/16	13	(10)	(4)	b - ℓ
22.5	N21	8898 (3)	8863	2700	2.5	ℓ ┌ ℓ	3&4	7/16	13	10	1	b - d
22.7	S30	8899	8866	1300	3.0	ℓ ∧ ℓ	2	7/16	13	50	12	b ┌ ℓ
										(20)	(1)	b - d
23.1	S12	8900	New	(300)	(2.0)	ℓ ∧ d	1	7/17	5			
24.4	S22	8901	8867	5000	3.0	ℓ ∧ ℓ	2	7/17	14	10	3	b - d
24.4	S08	8904	New	1200	3.0	b / ℓ	1	7/21	10	10	11	b ∧ d
26.0	N22	8902	8878	500	2.0	ℓ ∧ d	2	7/19	13			
26.1	S01	8906	New	(100)	(1.5)	b - d	1	7/22	1			
26.7	S26	8903	8870	1100	2.5	ℓ ┌ ℓ	3	7/20	13	(10)	(2)	b - d
28.3	N27	8905 (4)	8871	7200	3.5	ℓ ┌ ℓ	3	7/21	15	1500	35	ℓ ∧ ℓ
29.7	N17	8907	New	4300	3.0	ℓ ┘ ℓ	1	7/22	15	350	6	ℓ - ℓ
										180	58	ℓ ┐ ℓ
30.4	N33	8909 (4)	8871	1300	2.0	ℓ ∧ ℓ	3	7/23	14			
30.9	S25	8919	New	(400)	(2.0)	b - d	1	8/2	2			
31.3	N23	8911	New	2300	3.5	ℓ ┌ ℓ	1	7/24	14	230	33	b ┌ ℓ
										10	3	b - d
31.7	S23	8912	8875	2100	2.5	ℓ ┘ ℓ	2	7/25	13			

(1) Region 8877 is also a return of region 8836.
(2) Regions 8891, 8893 and 8897 are part of region 8854.
(3) Region 8898 is a return of regions 8863 and 8860.
(4) Regions 8905 and 8909 are part of region 8871.

MT. WILSON CLASSIFICATION OF SUNSPOTS

JULY 1967

July 1967	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	0125	N17	W76	(αp)4	16406
		S23	W55	(αp)3	16408
		N24	W07	(αp)6	16410
		N20	E49	(βp)4	16413
		S16	E67	(αp)3	16416
		S22	E42	(βp)2	16417
		N32	W57	(βf)3	16418
2	0135	S24	W67	(αp)4	16408
		N23	W20	(αp)6	16410
		N19	E36	(αp)4	16413
		S16	E53	(αp)4	16416
		S23	E27	(αp)1	16417
		N33	W67	(αf)1	16418
		N16	W46	(βp)1	16419
		N11	E45	(αf)1	16420
		S22	E71	(αp)2	16421
3	0130	S24	W80	αp	16408
		N24	W33	(αp)5	16410
		N19	E23	(αp)4	16413
		S16	E41	(αp)3	16416
		S22	E14	(βp)4	16417
		N16	W58	(β)2	16419
		N11	E30	(βp)2	16420
		S22	E58	(βf)2	16421
3	2330	N24	W44	(αp)5	16410
		N19	E11	(αp)5	16413
		S16	E29	(βp)4	16416
		S22	E03	(βf)3	16417
		N15	W68	(β)2	16419
		S22	E46	(αp)2	16421
		N17	E74	(αp)3	16422
4	1705	N25	W52	(αp)4	16410
		N19	E02	(αp)5	16413
		S16	E18	(αp)3	16416
		S21	W08	(βf)4	16417
		N16	W80	β	16419
		S22	E35	(αp)2	16421
		N16	E65	(αp)2	16422
		N23	E64	(αf)1	16423
5	1715	N23	W65	(αp)4	16410
		N19	W09	(βp)5	16413
		S16	E06	(αp)3	16416
		S22	W21	(δ)5	16417
		S23	E25	(αp)2	16421
		N16	E51	(αp)4	16422
		N21	W51	(βp)1	16423
		N13	W16	(βp)1	16424

July 1967	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
6	No Obs.				
7	0140	N24	W84	αp	16410
		N20	W29	(βp)4	16413
		S15	W13	(αp)2	16416
		S21	W39	(δ)4	16417
		S22	E06	(αp)1	16421
		N17	E34	(αp)4	16422
		N23	E34	(βf)1	16423
7	1640	N20	W38	(αp)4	16413
		S15	W22	(αp)2	16416
		S21	W46	(βf)4	16417
		N17	E26	(αp)3	16422
		N23	E27	(βp)2	16423
		N23	E61	(βp)2	16426
8	No Obs.				
9	0115	N21	W56	(αp)4	16413
		S15	W40	(αp)2	16416
		S21	W62	(αp)3	16417
		N18	E08	(αp)4	16422
		N24	E08	(βp)3	16423
		N23	E43	(βp)2	16426
		N15	W44	(αp)1	16427
10	0140	N19	W70	(αp)3	16413
		S23	W78	αf	16417
		N18	W08	(αp)3	16422
		N24	W05	(βp)2	16423
		N24	E26	(αp)2	16426
		N17	E70	(αp)1	16428
11	0135	N20	W81	(αp)2	16413
		N18	W19	(βp)2	16422
		N23	W16	(β)3	16423
		N23	E13	(βf)2	16426
		N16	E58	(αp)	16428
		S15	E60	(βp)2	16429
11	1820	N18	W28	(αp)1	16422
		N24	W25	(βp)2	16423
		N22	E03	(β)2	16426
		S14	E45	(αp)1	16429
		N25	E25	(βp)2	16430
		S22	E56	(αp)	16431

MT. WILSON CLASSIFICATION OF SUNSPOTS

JULY 1967

July 1967	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
12	2345	N18	W45	(αp) 1	16422
		N23	W44	(αp) 1	16423
		N22	W13	(βp) 2	16426
		S14	E28	(αp) 2	16429
		N24	E08	(βf) 3	16430
		S21	E38	(αp) 2	16431
		S20	E59	(βf) 3	16432
13	No Obs.				
14	0025	N24	W57	(β) 3	16423
		N24	W04	(β) 2	16426
		S14	E14	(αp) 2	16429
		S20	E44	(βf) 3	16432
15	0055	N23	W70	(βp) 4	16423
		N23	W18	(βf) 3	16426
		S14	E01	(βp) 2	16429
		S22	E16	(βp) 1	16431
		S20	E31	(β) 4	16432
		S21	E71	(βp) 2	16433
		N08	E81	(αp) 2	16434
16	0055	N23	W85	αp	16423
		N23	W33	(βf) 3	16426
		S14	W14	(αp) 2	16429
		S22	E03	(βp) 1	16431
		S20	E17	(β) 3	16432
		S20	E58	(βp) 3	16433
		N08	E67	(βp) 2	16434
		S15	W06	(αf) 1	16435
17	0050	S19	W13	(βp) 2	16431
		S18	E04	(βp) 3	16432
		S20	E43	(βp) 3	16433
		N08	E51	(αp) 2	16434
18	0010	S19	W26	(βp) 2	16431
		S18	W11	(βp) 2	16432
		S19	E30	(βp) 2	16433
		N09	E36	(αp) 2	16434
		N25	W58	(αf) 2	16436
19	0000	S17	W23	βp	16432
		S22	E17	βp	16433
		N25	W70	αf	16436
		S27	E47	αp	16437
		S22	E61	βp	16438
19	1345	S17	W29	(βp) 1	16432
		S19	E11	(β) 1	16433
		S26	E36	(βf) 2	16437
		S20	E54	(αp) 2	16438

	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
20	No Obs.				
21	No Obs.				
22	No Obs.				
23	0018	S27	W07	(βp) 5	16437
		S18	E17	(βp) 3	16438
		N14	E77	αp	16439
		N27	E67	(δ) 5	16440
24	No Obs.				
25	1400	S29	W42	(αp) 3	16437
		S16	W08	(βp) 2	16438
		N15	E53	(βp) 6	16439
		N27	E36	(βγ) 5	16440
		N28	W52	(αp) 2	16441
26	No Obs.				
27	No Obs.				
28	0000	S29	W76	(αp) 2	16437
		N13	E22	(βp) 6	16439
		N27	E08	(δ) 5	16440
		S20	E78	(αp) 2	16442
		N18	E39	(βp) 4	16443
		N12	E56	(βγ) 3	16444
		N21	E66	(βp) 4	16445
		S08	W51	(αp) 2	16446
28	1515	S29	W88	αp	16437
		N13	E14	βp	16439
		N27	WOE	δ	16440
		S22	E70	αp	16442
		N17	E31	βp	16443
		N11	E47	βp	16444
		N20	E58	βp	16445
		S08	W60	αp	16446
29	No Obs.				
30	0100	N13	W04	(βγ) 5	16439
		N27	W18	(δ) 6	16440
		S22	E51	(αp) 2	16442
		N17	E12	(βp) 5	16443
		N11	E26	(βp) 4	16444
		N20	E39	(βp) 4	16445
		S18	E26	(αp) 1	16447
31	00145	N13	W17	(βγ) 5	16439
		N27	W30	(δ) 5	16440
		S22	E38	(αp) 2	16442
		N17	W03	(βp) 5	16443
		N11	E13	(βp) 4	16444
		N20	E26	(βp) 5	16445
		N15	E56	(αf) 1	16448

SOLAR FLARES

PRELIMINARY

JULY 1967

OBSERVATORY	DATE 1967 JULY	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
LOCK	01	1625	1705	1645	N20	W78	.977	8863	25.8	40	1N		C	1645	1.00	3.10		10	
SACP	01	1626	1659	1638	N18	W82	.989		25.5	33	-N		C		.51				
MCMA	01	1628	1641	1631	N18	W90	1.000	8863	24.9	13	-N		C	1631					D
HUAN	01	1628	1643		N19	W85	.995		25.3	15	-F	1	C	1631	.25				D
HALE	01	1648E	1710D	1648U	N20	W82	.989	8863	25.5	22D	1N	2	P	1648	1.03				BF
AROS	02	0822	0845	0828	N18	E90	1.000	8880	9.1	23	1N		V						
CATA	02	0920	0935	0931	N23	W90	1.000	8863	25.6	15	1N			0931	.55			178	
MONT	02	0920	0945	0930	N20	W90	1.000	8863	25.6	25	1B								
CAPS	02	0935E	0950		N20	W90	1.000	8863	25.6	15D	1N	2		0940	2.50				A
WEND	02	1118E	1128D		N17	W50	.777	8878	28.7	10D	1N		V		3.09				
HUAN	02	1149	1158	1151	N16	W50	.776		28.7	9	-F	2	C	1151	.50	.62			ET
LOCK	02	1647	1725	1707	N13	E90	1.000	8880	9.4	38	2N		C	1707	1.50	6.00		20	
MCMA	02	1657E	1715	1706	N27	E90	1.000	8880	9.5	18D	1F		C	1706					
LOCK	02	1903	1925	1908	N11	E90	1.000		9.5	22	1F		C	1908	.70	2.80		10	
MONT	03	0749	0830	0755	S22	E12	.465	8875	4.2	41	1N			0755	3.61				H
CATA	03	0750	0855	0755	S23	E14	.491		4.4	65	1B			0755	2.36	2.71		301	
CAPS	03	0754	0836		S20	E16	.468	8875	4.5	42	1B	3		0757	1.80	2.00		312	
SALO	03	0755E	0825D	0810	S22	E12	.465		4.2	30D	-N		V	0810	.37	.40	.16		
SALO	03	0755E	0825D	0810	S23	E13	.485		4.3	30D	-N		V	0810	.54	.60	.16		
ARCE	03	0758E	0825		S20	E15	.460		4.5	27D	-N		C	0800	1.52	1.70			
MANI	03	0803E	0823D	0806	S21	E15	.473		4.5	20D	-N	1		0806	1.50	1.70			
WEND	03	0815E	0840		S23	E16	.506	8875	4.5	25D	1N		V		5.16				
SALO	03	0825E	0835D		N34	W82	.989	8868	27.2	10D	1N		V	0830	.25	1.80	.16		
LOCK	03	1620	1640	1630	N17	W62	.886		29.0	20	-N		C	1630	.60	1.30		20	
MCMA	03	1624	1633	1628	N17	W65	.908	8878	28.8	9	-N		V	1628	.41	1.00			D
HALE	03	1624	1635	1628	N16	W61	.877		29.1	11	-B	3	C	1628	.26	.50			
HUAN	03	1625	1632	1627	N17	W65	.908		28.8	7	-N	2	C	1627	.50	.80			
SACP	03	1625	1635	1628	N15	W63	.892		29.0	10	-F		C		.30	.48			
MONT	03	1625	1700	1630	N16	W64	.900		28.9	35	1N			1630	1.86				
HALE	03	1658	1729	1710	N15	W67	.921		28.7	31	-N	1	C	1710	.15				
LOCK	03	1700	1730	1705	N15	W67	.921		28.7	30	-F		C	1705	.70	1.60		10	J
HUAN	03	1703	1723	1706	N15	W67	.921		28.7	20	-F	2	C	1706	.50				E
WEND	03	1708E	1721D		N13	W58	.849	8878	29.4	13D	1F		V		3.09				
HALE	03	1720	1732	1726	N16	W67	.921		28.7	12	-N	1	C	1726	.10				
CATA	04	0635	0710	0646	S21	E01	.410		4.3	35	-B			0646	1.11	1.24		204	
CAPS	04	0644E	0703		S20	W01	.394	8875	4.2	19D	1N	1		0649	2.00	2.20		185	
MANI	04	0652E	0658D		S21	E00	.410		4.3	6D	-F	1		0653	.62	.68			
CAPS	04	0940	1045		S20	E00	.394	8875	4.4	65	1B	2		0944	2.50	2.70		220	EK
LOCA	04	0940	1050	1000	S23	W00	.441	8875	4.4	70	1N		V	1000	2.53	2.80			K
ARCE	04	0943	1000	0947	S21	E02	.411	8875	4.6	17	1N		C	0947	1.97	2.20			
CATA	04	0944	1010	0947	S21	W02	.411	8875	4.3	26	1B			0947	2.17	2.42		275	
CATA	04	0957	1105	1015	S22	W01	.426	8875	4.3	68	1B			1015	1.97	2.18		240	
CAPF	04	1155E	1210D		N16	W82	.989	8878	28.3	15D	1N		P	1201	.88				
LOCK	04	1524	1538	1527	S22	W07	.440		4.1	14	-N		C	1527	.80	.90		20	
HUAN	04	1526E	1528D		S22	W04	.430		4.3	2D	-N	1	P	1526	.57	.57			E
CAPS	04	1526E	1543		S20	W03	.397		4.4	17D	-N	2		1534	.50	.50		182	
ZURI	04	1528E	1545	1528	S22	W02	.427	8875	4.5	17D	1N		P	1528	2.10	2.30			
CATA	04	1530	1545	1530	S21	W07	.425		4.1	15	-N			1530	.99	1.11		178	
LOCK	04	1656	1800	1724	S22	W06	.436	8875	4.3	64	1B		C	1724	2.10	2.30		30	
HALE	04	1657	1806	1725	S22	W04	.430		4.4	69	-B	1	C	1725	.72	.80			F
HUAN	04	1712E	1750D		S21	W05	.417		4.3	38D	-B	1	P	1722	1.39	1.40			E
HALE	04	1721	1735	1725	S21	W09	.434		4.0	14	-N	1	C	1725	.31	.30			
SACP	04	1731E	1753	1732	S21	W04	.415		4.4	22D	-N		C		1.43	1.44			
SALO	05	1533E	1558D		N28	E40	.712	8880	8.6	25D	1N		P	1540	.66	1.10	.12		
SALO	05	1533E	1558D		N25	E40	.697	8880	8.6	25D	1B		P	1540	1.05	2.00	.12		
LOCK	05	1830	1940	1855	S20	W19	.497	8875	4.3	70	1B		C	1855	2.20	2.60		30	
HUAN	05	1834	1930		S21	W18	.500		4.4	56	-B	1	C	1857	1.44	1.50			E
SACP	05	1840	1932	1856	S21	W18	.500	8875	4.4	52	1N		C		2.05	2.12			
HALE	05	1843	1921D	1854	S21	W18	.500		4.4	38D	-B	1	P	1854	1.44	1.70			E
MCMA	05	1901E	1954D		S21	W19	.509	8875	4.4	53D	1B		V	1901	2.06	2.40			BFH
LOCA	06	1315E	1405	1335	N28	W80	.984	8871	30.6	50D	1N		V						AH
MCMA	06	1330	1348	1332	N27	W88	.998	8871	30.0	18	-N		V	1332					D
MONT	06	1330	1410	1335	N27	W80	.983	8871	30.6	40	1B			1335	3.09				
LOCK	06	1816	1850	1830	N17	W74	.960		1.2	34	1N		C	1830	.80	2.20		20	HL
LOCK	06	2309	2316	2312	N26	W82	.989		30.8	7	-N		C	2312	.20	.70		20	
LOCK	06	2359	0023	0003	N27	W82	.989	8871	30.8	24	1B		C	2403	.80	2.70		30	H
CATA	07	0840	0905	0840	N22	E71	.946		12.7	25	-N			0840	.55			174	
WEND	07	0848E	0912		N24	E67	.925	8883	12.4	24D	2N		V		8.25				
CAPS	07	0852E	0904		N23	E70	.941	8883	12.6	12D	1F	3		0856	2.00			150	G
ARCE	07	0854E	0857D		N24	E69	.936		12.5	3D	-N		P	0854	.56	1.30			
CATA	07	0910	0935	0915	N29	W75	.967	8871	1.8	25	1N			0915	.92			178	
MONT	07	1255	1400		N29	E76	.971	8883	13.2	65	1N			1310	2.06				
SACP	07	1526	1538	1531	N26	W77	.974	8871	1.9	12	1N		C		.92	2.19			
HUAN	07	1534E	1550D		N26	W82	.988	8871	1.5	16D	1F	1	P	1535	.88				ET

SOLAR FLARES
PRELIMINARY

JULY 1967

OBSERVATORY	OBSERVED UT DATE 1967 JULY	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
LOCK	07	1540E	1555	1547	N29	W74	.963		2.1	15D	-F		C	1547	.60	1.70		10	HJ
LOCK	07	1850	1920	1905	N28	W74	.962	8871	2.2	30	1F		C	1905	.80	2.20		10	J
LOCK	07	1946	2020	1955	N26	E25	.543	8880	9.7	34	1N		C	1955	2.00	2.40		20	
SACP	07	1949E	2013	1952	N27	E23	.533	8880	9.6	24D	1N		C		2.34	2.46			
MCMA	07	1959E	2159D		N27	E24	.542	8880	9.6	120D	1F		S	1959	2.58	3.00			FI
SACP	07	2043	2128	2058	N26	E23	.523	8880	9.6	45	1F		C		2.13	2.23			
LOCK	07	2050	2117	2056	N25	E23	.513		9.6	27	-F		C	2056	.50	.60		10	
HUAN	07	2054E	2106D		N25	E24	.523		9.7	12D	1F	1	P	2057	1.96	2.06			E
CAPS	08	1309	1325		N26	W90	1.000	8871	1.8	16	1N	2		1314	1.20			168	
SACP	08	1310	1325	1314	N29	W86	.996		2.1	15	-N		C		.52				
MCMA	08	1311	1325	1314	N26	W90	1.000	8871	1.8	14	-N		V	1314					E
LOCK	08	1845	2000	1912	S15	W34	.622	8877	6.2	75	1N		C	1912	1.60	2.10		20	
HALE	08	1856	1946	1912	S16	W34	.628		6.2	50	-N	1	C	1912	.52	.70			G
MCMA	08	1900	2015	1910	S15	W33	.610	8877	6.3	75	-N		C	1910	.62	.80			E
HALE	08	1905	1946	1919	S18	W32	.619		6.4	41	-N	1	C	1919	.15	.20			G
HUAN	08	1909E	2000D		S15	W36	.646		6.1	51D	-F	1	P	1911	.83	.91			E
HUAN	08	1909E	2000D		S17	W32	.612		6.4	51D	-F	1	P						
LOCK	08	2237	2330	2244	N30	W90	1.000	8871	2.2	53	1F		C	2244	.80	3.20		10	H
LOCK	09	0110	0205D	0142	S23	W66	.937	8875	4.1	55D	1N		C	0142	1.70	3.90		20	
MANI	09	0115E	0230		S23	W64	.926	8875	4.3	75D	1B	1		0144	2.17	4.50			
HALE	09	0203E	0237D	0226U	S23	W63	.920		4.4	34D	-N	1	P	0226	.10				BF
MANI	09	0313	0335	0318	N28	E10	.440	8880	9.9	22	1F	1		0318	2.37	2.61			
SALO	12	0830E	1000D	0835	S19	E50	.812		16.1	90D	-N		P	0840	.50	.90	.13		
SALO	12	0830E	1000D	0835	S18	E66	.931	8889	17.3	90D	1N		P	0840	.83	2.10	.15		
SALO	13	0820E	0830D		S19	E51	.822		17.2	10D	-N		S	0820	.50	.90	.13		
SALO	13	0820E	0830D		S20	E54	.850	8889	17.4	10D	1N		S	0820	.83	1.50	.13		
MONT	13	1129	1215	1140	S20	W78	.985	8877	7.6	46	1N			1140	1.03				
SALO	13	1130E	1220D		S13	W80	.988	8877	7.5	50D	1B		S	1150	.66	3.30	.14		
MONT	13	1305	1500	1340	N22	W47	.753	8880	10.0	115	2F			1340	5.16				
MCMA	13	1318E	1357D		N23	W49	.776	8880	9.9	39D	-N		V	1327	1.03	1.70			F
SALO	13	1430E	1510D	1440	S13	W80	.988	8877	7.6	40D	1B		S	1440	.66	3.30	.14		
SALO	14	1530E	1620D	1535	N24	W64	.903	8880	9.8	50D	1B		V	1535	.83	1.90	.14		
SALO	14	1530E	1620D	1535	S18	E33	.635	8889	17.1	50D	1F		V	1535	.83	1.20	.12		
SALO	14	1620E	1650D	1630	S20	E37	.690	8889	17.5	30D	1F		V	1630	.66	.90	.13		
MITK	15	0225	0246	0227	N21	W72	.949	8880	9.7	21	1N		C	0227	1.34				
MONT	15	0730E	0815	0740	N27	W20	.495	8886	13.8	45D	1N			0745	2.06				
SALO	15	1520E	1630D		S18	E23	.527	8889	17.4	70D	1B		S	1520	1.65	2.10	.16		
CATA	15	1525	1615	1530	S19	E23	.537		17.4	50	-B			1530	1.37	1.60		234	
SACP	15	1528	1546	1531	S17	E22	.507	8889	17.3	18	1N		C		2.15	2.21			
CAPS	15	1530	1546		S18	E23	.527		17.4	16	-N	3		1532	1.50	1.70		176	J
MCMA	15	1530	1554	1531	S18	E22	.517	8889	17.3	24	-N		V	1531	1.03	1.20			E
LOCA	15	1535E	1605		S18	E25	.548		17.5	30D	-N		S	1535	.85	1.00			
MONT	16	0734E	0800		N25	W33	.613	8886	13.8	26D	1N			0743	2.06				
HUAN	17	1509	1525		N26	W53	.819		13.7	16	-N	1	C	1515	.75	1.00			E
SACP	17	1510	1529	1516	N25	W52	.808		13.7	19	-N		C		.92	1.23			
CATA	17	1510	1535	1510	N24	W53	.815		13.7	25	-B			1510	.60	1.09		224	
MCMA	17	1512	1532	1515	N26	W53	.819	8886	13.7	20	-N		V	1515	.93	1.70			E
CAPS	17	1513	1530		N25	W51	.799	8886	13.8	17	1B	3		1518	1.30	2.10		216	G
LOCK	17	2300	2330	2315	S30	E69	.963	8899	23.1	30	1F		C	2315	.80	2.20		10	
MANI	17	2311E	2319	2312	S29	E60	.917		22.5	8D	-N	2		2312	.26	.52			
MONT	19	1145	1215	1200	S18	W30	.606	8889	17.2	30	1N			1200	2.06				
CATA	20	0540	0640	0545	S23	E50	.830		24.0	60	1B			0545	1.94	3.66		308	
MITK	20	0547	0639	0551	S22	E50	.827	8901	24.0	52	2F		C	0551	3.40	6.30			
MANI	20	0548	0624D		S20	E49	.810		23.9	36D	-N	1		0553	.83	1.38			
CAPS	20	0550E	0628		S22	E50	.827	8901	24.0	38D	1B	3		0555	2.00	3.40		288	
WEND	20	0601E	0624		S22	E49	.818	8901	23.9	23D	1N		V		4.13				
MONT	20	0715	0800	0725	S22	E47	.801	8901	23.8	45	2N			0725	5.16				
CATA	20	0715	0825	0724	S23	E50	.830		24.1	70	1B			0724	1.35	2.55		324	
CAPS	20	0717	0813		S22	E49	.818	8901	24.0	56	2N	3		0727	3.00	5.10		220	
MITK	20	0718	0733D	0722	S22	E50	.827	8901	24.1	15D	1N		C	0722	2.58	4.50			
WEND	20	0723E	0815		S22	E48	.810	8901	23.9	52D	1N		V		5.16				
CATA	20	0740	0757	0740	S20	E57	.876		24.6	17	-N			0740	.66			178	
CAPF	20	0753E	0801D		S21	E52	.840		24.2	8D	-N		P	0759	1.18	2.28			
CATA	20	1220	1335	1230	S23	E47	.805		24.0	75	-B			1230	.88	1.54		204	
MCMA	20	1227	1305D	1237	S23	E48	.814	8901	24.1	38D	-N		V	1237	.62	1.10			EK
WEND	20	1230	1320D		S22	E46	.792	8901	24.0	50D	1N		V		4.13				
CAPF	20	1244E	1248D		S22	E48	.810		24.1	4D	-N		P	1245	1.18	2.06			
SACP	20	1247E	1303D	1250	S22	E46	.792		24.0	16D	-N		P		.41	.53			
HUAN	20	1258E	1327		S23	E47	.805		24.1	29D	-N	1	C	1308	.70	.90			E
SALO	20	1300E	1330D	1310	S22	E46	.792	8901	24.0	30D	1B		V	1310	.99	1.60	.26		

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OBSERVATORY	DATE 1967 JULY	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
MCMA	20	1305	1330	1309	S23	E48	.814	8901	24.1	25	-N		V	1309	1.03	1.80			EK
CATA	20	1310	1325	1315	S24	E52	.850		24.4	15	-N			1315	.68	1.29		186	
CATA	20	1500	1515	1505	S30	E32	.724	8899	23.0	15	1N			1505	1.82	2.67		195	
MCMA	20	1503E	1517		S31	E31	.725	8899	23.0	14D	-B		P	1503	1.03	1.50			E
LOCK	20	1547	1601	1553	N24	E90	.999	8905	27.4	14	1F		C	1553	.60	2.40		10	H
LOCK	20	2206	2230	2212	S21	W50	.823	8889	17.2	24	1N		C	2212	1.70	2.90		20	
LOCK	21	0058	0114	0103	S23	W49	.823		17.4	16	-N		C	0103	1.10	1.90		20	
SACP	21	0059	0112	0103	S22	W48	.810	8889	17.4	13	1N		C		1.64	2.18			
CATA	21	0610	0647	0630	N21	E90	1.000	8905	28.0	37	1B			0630	.59			246	
MITK	21	0626	0639	0631	N24	E90	.999	8905	28.0	13	1F		C	0631	.83				A
CAPS	21	0636	0645		N23	E90	.999	8905	28.0	9	1N	3							H
CATA	21	0915	0955	0949	N21	E90	1.000	8905	28.1	40	1N			0949	.88			199	
MONT	21	0942	1000		N22	E90	.999	8905	28.2	18	1N								
HERS	21	0944	0958	0949U	N26	E85	.993	8905	27.8	14	1N		P	0949	.89	4.40			D
LOCK	21	1649	1705	1655	N29	E81	.984		27.8	16	-F		C	1655	.30	1.00		10	
SALO	21	1650E	1705D	1700	N24	E88	.998	8905	28.3	15D	2B		V	1700	.50	3.80	.17		
MCMA	21	1651	1659	1654	N25	E88	.998	8905	28.3	8	-F		C	1654	.15				D
HUAN	21	1651	1702		N28	E90	.999		28.5	11	-F	1	C	1653	.25				D
LOCK	21	2250	2340	2303	N24	E82	.987	8905	28.1	50	1F		C	2303	1.00	3.40		10	
CAPF	22	0730E	0741D		N13	E90	1.000	8907	29.1	11D	1		P	0735	1.76				
ARCE	22	0814E	0859D		N13	E90	1.000		29.1	45D	-N		C	0819	.20	1.10			
MONT	22	0817	0830		N12	E90	1.000		29.1	13	-N								
CAPF	22	0840E	0916D		N13	E90	1.000	8907	29.1	36D	1		P	0848	1.18				
MONT	22	0906	0930	0910	S24	E22	.588	8901	24.0	24	1B			0910	2.06				
WEND	22	0907	0932		N22	E24	.482	8898	24.2	25	1N		V		4.13				
ARCE	22	0908	0920	0908	S21	E25	.584	8901	24.3	12	1N		C	0908	1.60	2.00			
CAPS	22	0909	0920D		S22	E24	.584		24.2	11D	-B	3		0912	1.00	1.20		191	E
CATA	22	0910	0935	0915	S23	E24	.595		24.2	25	-B			0915	.90	1.10		257	
CATA	22	0940	1410	0950	N12	E90	1.000		29.2	270	-B			0950	.42			347	
ARCE	22	0945E	0947D		N13	E90	1.000		29.2	2D	-N		C	0947	.33	1.90			
MONT	22	0945	1000		N12	E90	1.000	8907	29.2	15	1B								
MANI	22	0947	1002D	0948	N12	E90	1.000		29.2	15D	-B	2		0948	.26	.84			
CAPS	22	0948E	1058		N13	E90	1.000	8907	29.2	70D	2N	3							
MONT	22	1040	1050		N12	E90	1.000		29.2	10	-N								
CATA	22	1154	1255	1225	N31	E85	.993		28.9	61	2N			1225	2.11			178	
CAPS	22	1315	1327		N12	E90	1.000		29.3	12	-B	3							D
MCMA	22	1316	1322	1318	N12	E90	1.000	8907	29.3	6	-N		C	1318					
CAPF	22	1318E	1323D		N13	E90	1.000	8907	29.3	5D	1		S	1320	1.18				
MCMA	22	1400	1405	1401	N12	E90	1.000	8907	29.3	5	-N		C	1401					D
CAPS	22	1400E	1410		N12	E90	1.000	8907	29.3	10D	1N	3		1404	.70				CD
MONT	22	1418	1440		N12	E90	1.000		29.3	22	-N								
CAPS	22	1418	1456		N13	E90	1.000		29.3	38	2N	3							H
MCMA	22	1419	1545	1421	N12	E90	1.000	8907	29.3	86	1B		V	1421					K
CATA	22	1420	1430	1420	N14	E90	1.000	8907	29.3	10	1B			1420	.70			246	
AROS	22	1420	1500	1428	N12	E90	1.000	8907	29.3	40	1N		V						
SALO	22	1540E	1620D	1545	S32	E02	.602	8899	22.8	40D	1B		S	1545	.66	.80	.15		
MONT	22	1628	1640D	1635	N26	E73	.954	8905	28.2	12D	1B			1635	1.03				
LOCK	22	1632	1655	1640	N30	E75	.964		28.3	23	-F		C	1640	.60	1.70		10	H
SACP	22	1635	1713U	1640U	N30	E79	.978	8905	28.6	38U	1N		C		1.23	3.01			
MCMA	22	1636	1652D	1640	N28	E80	.981	8905	28.7	16D	-N		C	1655	.62	1.00			EK
CATA	22	1640	1645	1640	N30	E78	.975		28.5	5	-B			1640	.39			209	
HUAN	22	1646E	1705D		N28	E80	.981		28.7	19D	-N	1	P	1649	.62				E
HUAN	22	1646E	1705D		N25	E77	.971		28.5	19D	-N	1	P						
MCMA	22	1652	1710D	1655	N28	E80	.981	8905	28.7	18D	-N		C						
LOCK	22	1820	1846	1840	N15	E90	1.000	8907	29.5	26	1F		C	1840	1.00	4.00		10	H
LOCK	22	1847	1911	1853	N15	E90	1.000	8907	29.5	24	1N		C	1853	1.00	4.00		20	H
MCMA	22	1848	1905	1849	N12	E90	1.000	8907	29.5	17	-B		V	1849					
LOCK	22	1940	2042	2001	N15	E90	1.000	8907	29.6	62	1N		C		.90	3.60		20	HK
LOCK	22			2024															
LOCK	22	2052	2144	2102	N14	E90	1.000	8907	29.6	52	1N		C	2102	.90	3.60		20	H
MCMA	22	2055	2114D	2058	N12	E90	1.000	8907	29.6	19D	-B		V	2058					
LOCK	22	2152	2227	2211	N14	E90	1.000	8907	29.7	35	1F		C	2211	.80	3.20		10	H
LOCK	23	0010	0145	0032	N16	E90	1.000	8907	29.8	95	1F		C		.70	2.80		10	
LOCK	23			0115															
MANI	23	0440E	0448		N12	E80	.982	8907	29.2	8D	1B	1		0441	.93	2.40			
MITK	23	0442	0450	0443	N12	E80	.982	8907	29.2	8	1N		C	0443	.93				H
MITK	23	0538	0557	0543	N12	E90	1.000	8907	30.0	19	1F		C	0543	.52				A
CATA	23	0605	0745	0620	N23	E68	.926		28.4	100	-B			0620	.20			229	
CATA	23	0625	0745	0640	N27	E68	.928	8905	28.4	80	1B			0640	.96			246	
MONT	23	0636E	0800		N26	E67	.922	8905	28.3	84D	2N			0710	4.13				
MITK	23	0644	0646	0644	N29	E65	.912		28.2	2	-N		C	0644	.72				E
MONT	23	0636E	0750		N11	E80	.982	8907	29.3	74D	1N			0710	.77				
CATA	23	0915	1030	0935	N29	E60	.878		27.9	75	-N			0935	.33			199	
ARCE	23	0925	1000D	0945	N24	E60	.871		27.9	35D	-N		C	0945	.34	.70			D
CAPS	23	0927E	1002D		N21	E62	.884		28.0	35D	-F	3							C
SALO	23	0935E	1000D		N23	E56	.837	8905	27.6	25D	1B		V	0940	.50	.80	.13		
SALO	23	0935E	1005D		N12	E75	.963		29.0	30D	-F		V	0940	.33	1.50	.12		

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OBSERVATORY	DATE 1967 JULY	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
MONT	23	0945	1040	1000	N11	E79	.979	8907	29.3	55	1F			1000	1.03				
CATA	23	0950	1007	0955	N09	E79	.979		29.3	17	-N			0955	.33			164	
WEND	23	1233	1251D		N12	E74	.958	8907	29.1	18D	1N		V		4.13				
CATA	23	1240	1415	1303	N12	E76	.967	8907	29.2	95	1B			1303	2.01			436	
SACP	23	1244	1311	1303	N13	E74	.958	8907	29.1	27	2B		C		3.37	6.94			
CAPS	23	1251	1307		N11	E75	.963	8907	29.2	16	1N	3		1302	2.50				H
HUAN	23	1331	1356		N12	E85	.995		29.9	25	-N	1	C	1345	.45				E
HUAN	23	1331	1356		N13	E78	.975		29.4	25	-N	1	C						
LOCK	23	1552	1613	1555	N13	E72	.948	8907	29.1	21	1B		C		1.00	2.50		30	HK
LOCK	23			1606															
CAPS	23	1553E	1600		N11	E74	.958		29.2	7D	-N	3		1555	1.50			189	
MCMA	23	1553	1610	1555	N11	E74	.958	8907	29.2	17	-B		V	1605	.41	1.50			DK
MCMA	23			1605															
LOCK	23	1809	1847	1813	N12	E71	.942	8907	29.1	38	1B		C	1825	2.00	4.80		30	
LOCK	23			1825															
HUAN	23	1810	1833	1815	N11	E74	.958		29.3	23	-B	2	C	1815	.25				D
HUAN	23			1825										1825	.83				
HUAN	23	2009	2013	2010	N10	E80	.983		29.8	4	-F	2	C	2010	.25				D
LOCK	23	2010E	2022U	2010U	N12	E74	.958	8907	29.4	12U	1N		C	2010	1.50	4.10		20	H
HUAN	23	2011	2017	2014	N12	E72	.948		29.2	6	-N	2	C	2014	.25				D
LOCK	24	0024	0050	0034	N10	E66	.910	8907	29.0	26	1B		C	0034	1.50	3.30		30	H
SACP	24	0025	0049	0037	N12	E67	.917	8907	29.0	24	2N		C		3.25	5.59			
MANI	24	0038E	0051		N10	E66	.910	8907	29.0	13D	1N	1		0040	1.55	3.15			
MANI	24	0415E	0432	0421	N10	E64	.895	8907	29.0	17D	1B	2		0421	1.24	2.44			
SALO	24	0755E	0810D		N27	E55	.835	8905	28.5	15D	1N		V	0800	.83	1.50	.14		
SALO	24	0755E	0815D		N27	E47	.763	8905	27.9	20D	1N		V	0800	.83	1.50	.14		
CAPS	24	0757E	0811		N26	E59	.866	8905	28.8	14D	1N	3		0800	2.00	4.00		189	EJ
CATA	24	0800	0820	0800	N26	E63	.895		29.1	20	-B			0800	.29			224	
SALO	24	0820E	0830D		N28	E54	.829	8905	28.4	10D	1N		V	0825	.50	.90	.11		
CAPS	24	0929E	1018		N27	E54	.827	8905	28.4	49D	1B	3		0933	2.00	3.40		237	EJ
CATA	24	0930	1100	0935	N28	E52	.812		28.3	90	-B			0935	.60	1.11		316	
ARCE	24	0931E	1005D		N28	E58	.861	8905	28.7	34D	1N		P	0931	1.88	3.60			
CATA	24	0950	1050	1000	N08	E63	.888	8907	29.1	60	1B			1000	1.66			363	
MONT	24	0953	1005	0958	N10	E63	.887		29.1	12	-B			0958	.77				H
CAPS	24	0956E	1008		N10	E64	.895		29.2	12D	-B	3		1000	.90			220	H
ARCE	24	1000	1005D		N12	E65	.903	8907	29.3	5D	1N		P	1003	1.76	4.20			
CATA	24	1140	1305	1144	N25	E55	.831		28.6	85	-B			1144	.66	1.19		240	
SALO	24	1145E	1215D		N27	E52	.810	8905	28.4	30D	1N		V	1200	.83	1.50	.11		
HUAN	24	1146E	1225	1203	N27	E54	.827	8905	28.5	39D	1N	1	C	1203	1.75	2.33			ET
MCMA	24	1148E	1232D		N28	E55	.838	8905	28.6	44D	-B		V	1155	.72	1.30			E
CAPS	24	1154	1216		N27	E55	.835	8905	28.6	22	1N	3		1207	1.80	3.20		181	FH
CAPF	24	1202E	1210D		N28	E53	.821	8905	28.5	8D	1N		P	1204	2.35	4.10			
HUAN	24	1240	1321		S22	W05	.463	8901	24.2	41	1F	2	C	1257	2.63	2.70			E
CATA	24	1245	1340	1250	S24	W05	.493		24.2	55	-N			1250	1.05	1.22		178	
SACP	24	1236	1301	1242	N28	E60	.876		29.0	25	-N		C		.63	.95			
HUAN	24	1237	1256		N27	E61	.882		29.1	19	-F	2	C	1249	.31	.47			D
HERS	24	1240	1252	1241U	N27	E57	.852	8905	28.8	12	-B		P	1241	.89	1.70			BE
CATA	24	1240	1310	1250	N26	E61	.881		29.1	30	-B			1250	1.11			240	
SACP	24	1254	1309	1302	N29	E50	.798		28.3	15	-N		C		1.55	2.03			
HUAN	24	1255	1312	1301	N27	E52	.810		28.4	17	-B	2	C	1301	.75	.99			D
CATA	24	1305	1410	1310	N26	E52	.807		28.4	65	-B			1310	.44	.78		263	
CATA	24	1310	1635	1415	N27	E55	.835	8905	28.7	205	1B			1415	1.37	2.52		269	
CATA	24	1505	1635	1515	N28	E52	.812		28.5	90	-B			1515	.25	.43		224	
HUAN	24	1537	1551	1540	N28	E50	.795		28.4	14	-F	2	C	1540	.50	.65			E
SALO	24	1540E	1610D		N27	E50	.792	8905	28.4	30D	1N		V	1600	.50	.90	.15		
MCMA	24	1621E	1722D	1624	N27	E53	.818	8905	28.7	61D	1B		V	1624	1.24	2.20			EK
MONT	24	1625	1711D	1632	N25	E50	.786	8905	28.4	46D	2N			1632	4.13				L
HUAN	24	1637	1705		N25	E50	.786		28.4	28	-F	1	C	1641	.62	.79			
HALE	24	1643	1655	1644	N25	E48	.767		28.3	12	-N	2	C	1644	.15	.20			
HUAN	24	1721	1736		N27	E51	.801		28.5	15	-N	1	C	1727	.57	.73			E
MCMA	24	1722	2015	1727	N27	E53	.818	8905	28.7	173	1B		V	1727	1.55	2.80			EK
HALE	24	1726	1750	1730	N28	E47	.767		28.3	24	-N	2	C	1730	.15	.20			
HALE	24	1855	1906	1858	N26	E46	.750		28.2	11	-N	1	C	1858	.10	.20			
HUAN	24	1944	2017		N27	E50	.792		28.6	33	-F	1	C	1955	.83	1.06			E
SACP	24	2013	2140	2105	N29	E48	.780	8905	28.4	87	2B		C		5.51	6.98			
MCMA	24	2015	2026	2018	N24	E43	.712	8905	28.1	11	-N		V	2018	.21	.30			D
LOCK	24	2015	2038	2020	N24	E40	.680		27.8	23	-F		C	2020	.50	.70		10	
HALE	24	2018	2047	2021	N23	E40	.676		27.8	29	-N	1	C	2021	.21	.30			
HUAN	24	2025	2105D		N27	E49	.782	8905	28.5	40D	1B	1	P	2052	2.99	3.83			
MCMA	24	2027	2200D	2103	N27	E48	.773	8905	28.5	93D	2B		V	2103	3.09	5.10			E
HALE	24	2030	2059D	2051	N27	E47	.763	8905	28.4	29D	1B	1	P	2051	1.55	2.40			FJK
LOCK	25	0010	0059	0014	N31	E41	.723		28.1	49	-F		C	0014	1.20	1.80		20	K
MANI	25	0036E	0100	0039	N27	E46	.753	8905	28.5	24D	1N	1		0039	1.96	2.98			
MITK	25	0403	0406D		N12	E54	.806		29.2	3D	-N		C	0406	.83	1.40			E
HALE	25	0403	0418	0409	N12	E53	.796	8907	29.1	15	1B	2	C	0409	1.24	2.10			
MANI	25	0406E	0411D		N11	E52	.785		29.1	5D	-N	1		0406	1.24	1.97			
CATA	25	0535	0930	0545	N27	E45	.744		28.6	235	-B			0545	1.05	1.58		331	

SOLAR FLARES
PRELIMINARY

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OBSERV-ATORY	OBSERVED UT DATE 1967 JULY	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION — MIN.	IM-POR-TANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
MITK	25	0616	0633	0621	N28	E44	.738		28.6	17	-N		C	0621	.72	1.10			E
MANI	25	0617	0628	0620	N27	E44	.734		28.6	11	-N	1		0620	.83	1.23			
WEND	25	0617	0643		N27	E42	.713	8905	28.4	26	1F		V		5.16				
CAPS	25	0618	0624		N28	E48	.776		28.9	6	-N	3		0618	.60	.90			F
CATA	25	0630	0705	0640	N27	E52	.809		29.2	35	-R			0640	.20	.35		240	
MONT	25	0707	0720		N28	E47	.766		28.8	13	-N			0713	.83				
AROS	25	0718E	0746D		N27	E41	.703	8905	28.4	28D	1R		V						
AROS	25	0738	0745	0741	N10	E58	.845	8907	29.7	7	1N		V						
CATA	25	0740	0800	0745	N08	E57	.835		29.6	20	-R			0745	.33	.65		204	
ARCE	25	0810	0935	0815	N29	E40	.703	8905	28.3	85	1N		C	0815	2.79	3.90			F
MONT	25	0815	0840		N28	E47	.766	8905	28.9	25	1N			0820	2.06				
CATA	25	0835	0855	0835	N26	E49	.779		29.0	20	-R			0835	.39	.65		204	
CATA	25	0840	0900	0850	N23	E48	.761		29.0	20	-N			0850	.35	.56		158	
MONT	25	0858	0910D		N28	E47	.766	8905	28.9	12D	1N			0903	1.86				
SALO	25	0900E	0920D		N27	E36	.651		28.1	20D	-N		V	0910	.83	1.20	.15		
SALO	25	0900E	0920D		N29	E45	.751		28.8	20D	-N		V	0910	.66	1.00	.15		
MONT	25	1055	1145	1120	N28	E47	.766	8905	29.0	50	2R			1120	4.13				
CAPS	25	1057E	1210		N28	E42	.718	8905	28.6	73D	1R	3		1109	2.50	3.80		234	FK
CATA	25	1058	1200	1058	N25	E44	.726	8905	28.8	62	1R			1058	1.68	2.47		346	
MCMA	25	1109E	1210		N28	E40	.698	8905	28.5	61D	2R		V	1114	3.61	5.00			BF
SALO	25	1155E	1200D		N28	E38	.677		28.3	5D	-N		V	1155	.66	.90	.15		
HUAN	25	1212	1230	1215	N27	E40	.693	8905	28.5	18	1N	1	C	1215	1.86	2.14			T
MCMA	25	1212	1255	1217	N28	E40	.698	8905	28.5	43	1R		V	1217	1.44	2.10			F
MONT	25	1213	1240	1218	N28	E45	.747	8905	28.9	27	1N			1218	2.06				
CAPS	25	1214	1257		N28	E42	.718	8905	28.7	43	1R	3		1222	1.80	2.70		225	F
HUAN	25	1303	1314	1308	N28	E39	.688		28.5	11	-N	2	C	1308	1.00	1.16			E
MCMA	25	1304	1314	1306	N28	E40	.698	8905	28.5	10	-R		C	1306	.41	.60			E
SACP	25	1304	1317	1306	N28	E38	.677	8905	28.4	13	1N		C		2.56	2.93			
MONT	25	1305	1400	1315	N28	E44	.738	8905	28.8	55	1N			1315	2.06				
CAPS	25	1307E	1428		N27	E41	.703	8905	28.6	81D	1R	3		1345	2.50	3.70		237	F
MCMA	25	1318	1333	1321	N28	E40	.698	8905	28.6	15	-R		V	1321	.83	1.20			E
HUAN	25	1319	1330	1321	N27	E39	.683		28.5	11	-F	2	C	1321	.57	.65			E
SACP	25	1337	1408	1350	N27	E38	.672	8905	28.4	31	1N		C		2.44	2.81			
MCMA	25	1339	1427D	1348	N28	E40	.698	8905	28.6	48D	1R		V	1348	1.55	2.10			ELRV
HUAN	25	1343	1407	1349	N27	E40	.693		28.6	24	-R	2	C	1349	1.50	1.73			E
MONT	25	1415	1500	1425	N28	E44	.738	8905	28.9	45	2R			1425	5.16				
HUAN	25	1423	1500	1429	N28	E39	.688	8905	28.5	37	1R	2	C	1429	2.37	2.70			
SACP	25	1425	1444	1430	N28	E38	.677	8905	28.5	19	1N		C		3.56	4.06			
MCMA	25	1427	1500	1429	N28	E40	.698	8905	28.6	33	1R		V	1429	3.09	4.30			ELRV
CAPS	25	1428	1509		N27	E41	.703	8905	28.7	41	1R	3		1433	3.00	4.30		354	F
HUAN	25	1612	1713	1628	N27	E38	.672	8905	28.5	61	1N	2	C	1628	2.73	3.11			
SACP	25	1614	1706	1650	N30	E40	.708	8905	28.7	52	1N		C		2.85	3.34			
MCMA	25	1616	1717D	1628	N28	E38	.677	8905	28.5	61D	1R		V	1628	2.58	3.50			EH
LOCK	25	1622	1702	1627	N29	E34	.643		28.2	40	-F		C	1627	.40	.50		10	
HALE	25	1628	1644	1632	N28	E37	.667		28.5	16	-R	1	C	1632	.62	.80			EJT
HUAN	25	1720	1749	1728	N27	E37	.662	8905	28.5	29	1N	2	C	1728	2.01	2.26			
HALE	25	1723	1738	1731	N28	E36	.657	8905	28.4	15	1N	1	C	1731	1.75	2.30			JT
MCMA	25	1724E	1749	1726	N28	E38	.677	8905	28.6	25D	1R		V	1726	2.27	3.00			EH
SACP	25	1726	1742D	1729	N30	E40	.708	8905	28.7	16D	1N		C		2.13	2.50			
HALE	25	1910	1925	1914	N28	E34	.636	8905	28.3	15	1N	1	C	1914	1.86	2.40			JT
HUAN	25	2105E	2216D		N28	E37	.667	8905	28.7	71D	1F	1	P	2107	2.25	2.56			E
MCMA	25	2132E	2157D		N28	E35	.646	8905	28.5	25D	1R		C	2140	1.34	2.00			BF
MITK	26	0224	0258	0226	N27	E32	.607	8905	28.5	34	1N		C	0226	1.65	2.10			E
HALE	26	0226	0302	0228	N28	E33	.625		28.6	36	-R	2	C	0228	1.29	1.60			T
MANI	26	0230E	0258	0233	N25	E32	.594	8905	28.5	28D	1N	2		0233	2.06	2.58			
CATA	26	0710	0730	0715	N12	E37	.604	8907	29.1	20	1R			0715	2.05	2.61		302	
MANI	26	0711	0727	0715	N13	E35	.579		28.9	16	-R	3		0715	1.03	1.28			
CAPS	26	0713	0731		N12	E38	.617		29.2	18	-N	3		0719	.50	.70		182	H
CATA	26	0535	1102	0615	N25	E31	.583	8905	28.6	327	1R			0615	2.31	2.86		380	
CAPS	26	0625E	0805		N27	E30	.586	8905	28.5	100D	1R	3		0658	1.70	2.10		339	FK
MITK	26	0652	0706D	0701	N28	E30	.594	8905	28.5	14D	1N		C	0701	2.17	2.70			F
MANI	26	0655	0721	0700	N25	E30	.572	8905	28.5	26	1R	3		0700	1.96	2.38			
SALO	26	0835E	0845D		N24	E35	.622		29.0	10D	-N		V	0840	.66	.80	.15		
CATA	26	0835	0950	0840	N25	E36	.639		29.1	75	-R			0840	.37	.49		214	
SALO	26	1010E	1020D		N26	E28	.557		28.5	10D	-F		V	1015	.99	1.20	.13		
CATA	26	0905	0935	0919	N12	E35	.577	8907	29.0	30	1R			0919	2.05	2.58		257	
ARCE	26	0915	0958	0923	N14	E35	.581	8907	29.0	43	1N		C	0923	2.27	2.80			H
MONT	26	0918	1008	0925	N18	E33	.568	8907	28.9	50	1N			0925	2.58				H
CATA	26	0935	1005	0940	N13	E37	.606		29.2	30	-N			0940	.92	1.17		182	
LOCA	26	0938E	0955		N13	E36	.592	8907	29.1	17D	1N		S	0938	1.89	2.40			H
HUAN	26	1144	1222	1154	S22	W34	.683		23.9	38	-N	2	C	1154	1.64	1.88			E
MCMA	26	1146	1236	1154	S24	W33	.688	8901	24.0	50	-N		V	1154	1.03	1.40			EL
CAPS	26	1148E	1215		S24	W30	.661	8901	24.2	27D	1F	2		1152	2.60	3.40		157	FJ
CAPS	26	1252E	1435		N27	E27	.554	8905	28.6	103D	1R	3		1314	3.50	4.20		189	JK
HUAN	26	1256	1322		N27	E27	.554		28.6	26	-F	2	C	1305	.86	.93			ET
MCMA	26	1256	1335	1306	N28	E26	.552	8905	28.5	39	-N		C	1306	1.03	1.30			F
HUAN	26	1341	1433	1347	N27	E27	.554	8905	28.6	52	1N	2	C	1347	2.11	2.25			
MCMA	26	1344	1434	1347	N28	E26	.552	8905	28.5	50	1R		V	1347	1.65	2.00			EK
LOCA	26	1350E	1415D		N27	E27	.554	8905	28.6	25D	1N		S	1350	2.31	2.80			

SOLAR FLARES
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OBSERVATORY	DATE 1967 JULY	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION MCMATH PLAGE REGION	LOCATION CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT. %	REMARKS
HERS	26	1353	1426	1354U	N28	E33	.625	8905	29.1	33			V						E
CAPS	26	1400	1418		N12	E34	.563		29.1	18	-N	3							H
HUAN	26	1401	1408	1402	N12	E35	.577		29.2	7	-F	2	C	1402	.45	.48			EH
MCMA	26	1410	1418	1414	N15	E35	.584	8907	29.2	8	-N		C	1414	.36	.40			E
MONT	26	1410	1450	1418	N18	E31	.542	8907	28.9	40	1N			1418	2.58				H
SACP	26	1434E	1442D	1435	N15	E32	.543		29.0	8D	-F		C		1.21	1.27			
SACP	26	1622	1711	1627E	N28	E24	.532		28.5	49	-N		C		1.82	1.90			
HUAN	26	1623	1657	1625	N28	E25	.542	8905	28.6	34	1F	2	C	1625	1.86	1.96			
MCMA	26	1632	1655	1639	N28	E25	.542	8905	28.6	23	-N		C	1639	.52	.70			E
MCMA	26	1707	1729D		N26	E26	.535	8905	28.7	22D	-N		V	1720	.62	.80			EK
LOCK	26	1719	1732	1725	S21	E77	.984		1.5	13	-F		C	1725	.30	.90		10	
MCMA	26	1722	1730	1724	S24	E80	.993	8912	1.7	8	-F		C	1724	.10				E
HALE	26	1725	1733	1727	S22	E75	.979	8912	1.4	8	1B	1	C	1727	.62				
MCMA	26	1729	1733	1731	N14	E34	.568	8907	29.3	4	-F		C	1731	.31	.40			EH
LOCK	26	1730	1835	1749	N14	E29	.498	8907	28.9	65	1F		C	1749	1.80	2.20		10	K
HALE	26	1732	1744	1734	N12	E30	.506		29.0	12	-F	1	C	1734	.26	.30			T
MCMA	26	1745	1746D		N16	E34	.574	8907	29.3	1D	-B		V	1746	.36	.40			DH
HUAN	26	1745E	1753		N13	E32	.537		29.1	8D	-B	1	P	1749	1.03	1.08			H
HALE	26	1747	1758	1749	N14	E31	.526		29.1	11	-B	1	C	1749	.72	.80			TW
LOCK	26	1759	1814	1803	N13	E28	.480		28.8	15	-F		C	1803	.40	.50		10	
SACP	26	2240	2248	2243	N15	E28	.488		29.0	8	-F		C		.71	.73			
HALE	26	2244	2300	2251	N14	E28	.483	8905	29.0	16	1N	2	C	2251	2.58	3.00			TK
HALE	26	2311	2328	2313	N28	E23	.522		28.7	17	-F	1	C	2313	.41	.50			T
MANI	26	2325	2343	2332	N26	E21	.482		28.6	18	-N	2		2332	.36	.41			
MITK	26	2329	2338	2331	N28	E20	.494		28.5	9	-B		C	2331	1.55	1.80			
SACP	26	2329	2346	2332	N28	E19	.485	8905	28.4	17	1N		C		2.23	2.29			
HALE	26	2333	2346	2334	N28	E20	.494		28.5	13	-B	1	C	2334	1.29	1.50			T
SACP	26	2344	2355	2347	N27	E36	.650		29.7	11	-N		C		1.63	1.82			
CATA	27	0610	0645	0615	N14	E80	.982		2.3	35	-N			0615	.55			174	
CAPS	27	0614E	0627		N19	E77	.970	8913	2.0	13D	1F	2		0617	2.00				CE
CAPS	27	0639	0719		N21	E78	.974	8913	2.1	40	1F	2		0658	1.00				D
CATA	27	0735	0835	0745	N26	E15	.424		28.4	60	-N			0745	.21	.24		182	
CATA	27	0735	1200	0745	N28	E20	.493		28.8	265	-B			0745	.96	1.12		219	
CATA	27	0750	0850	0750	N30	E27	.579		29.4	60	-B			0750	.11	.14		219	
CAPS	27	0851	0913		N28	E19	.484	8905	28.8	22	1N	2		0903	1.80	2.10		182	J
SALO	27	0902E	0920D		N27	E17	.454		28.7	18D	-N		P	0910	1.16	1.30	.14		
CAPS	27	0929	0950		N17	E70	.936	8913	1.6	21	1F	2		0935	1.50			158	E
CATA	27	0930	0945	0930	N16	E75	.962		2.0	15	-B			0930	.62			246	
MONT	27	0933	1000	0940	N10	E23	.395	8907	29.1	27	1N			0940	2.32				H
CAPS	27	0937	0948		N15	E24	.430		29.2	11	-F	2							DH
CATA	27	1000	1005	1000	N15	E23	.416		29.1	5	-B			1000	.27	.30		234	
CAPS	27	1159	1217		N23	E18	.418	8905	28.8	18	1N	2		1202	2.20	2.40		170	E
MCMA	27	1159	1219D	1203	N27	E13	.421	8905	28.5	20D	-B		S	1203	.77	.90			E
CAPS	27	1359	1414		N28	E16	.458	8905	28.8	15	1N	2		1409	2.00	2.20		196	EJ
HUAN	27	1359	1426	1401	N28	E16	.458		28.8	27	-N	2	C	1401	1.24	1.26			ET
SACP	27	1402	1419	1404	N29	E15	.463		28.7	17	-N		C		1.41	1.44			
HUAN	27	1419	1424	1421	N28	E16	.458		28.8	5	-F	2	C	1421	.90	.91			
HUAN	27	1650	1721	1653	N28	E13	.435		28.7	31	-F	2	C	1653	1.24	1.26			
HALE	27	1718	1722	1720	N28	E09	.410		28.4	4	-B	2	C	1720	.21	.20			JT
HALE	27	1718	1802	1739	N28	E14	.442		28.8	44	-B	2	C	1739	1.39	1.50			JTU
SACP	27	1731	1744	1736	N29	E13	.448	8905	28.7	13	1N		C		2.45	2.49			
HUAN	27	1734	1748	1736	N29	E13	.448	8905	28.7	14	1N	2	C	1736	2.51	2.54			
SACP	27	1800	1819	1804	N12	E21	.371	8907	29.3	19	1N		C		2.65	2.63			
HUAN	27	1801	1807	1804	N10	E22	.379		29.4	6	-N	1	C	1804	.83	.83			H
LOCK	27	1802	1830	1803	N12	E20	.356		29.3	28	-N		C	1803	.60	.70		10	
MCMA	27	1805E	1815D		N11	E20	.351	8907	29.3	10D	-N		V	1812	.41	.40			EH
HALE	27	1805	1843	1816	N11	E21	.367		29.3	38	-B	3	C	1816	.36	.40			TK
HALE	27	1805	1843	1807	N11	E21	.367		29.3	38	-N	3	C	1807	.46	.50			TK
HUAN	27	1812	1816	1814	N10	E21	.363		29.3	4	-N	1	C	1814	1.00	1.00			EH
HALE	28	0006	0041	0015	N28	E09	.408		28.7	35	-N	2	C	0015	.83	.90			
MITK	28	0009	0034	0012	N29	E08	.418	8905	28.6	25	1N		C	0012	2.27	2.50			
LOCK	28	0050	0145	0115	N24	E18	.428	8905	29.4	55	1F		C	0115	2.10	2.30		10	
LOCK	28	0053	0103	0055	N23	E01	.302		28.1	10	-F		C	0055	.40	.40		10	
SACP	28	0114	0139D	0126	N28	E07	.399		28.6	25D	-N		C		1.93	1.93			
HALE	28	0118	0229	0131	N29	E05	.407		28.4	71	-N	1	C	0131	1.24	1.30			F
MANI	28	0119	0140	0129	N26	E04	.357		28.4	21	-N	2		0129	1.03	1.11			
MITK	28	0122E	0154D	0127	N28	E06	.395	8905	28.5	32D	1N		C	0127	2.17	2.40			
HALE	28	0159	0257	0203	N26	E10	.385		28.8	58	-N	1	C	0203	.21	.20			
CATA	28	0640	0820	0645	N29	E08	.418	8907	28.9	100	1B			0645	2.21	2.44		309	
CATA	28	0755	0850	0805	N28	E01	.384		28.4	55	-B			0805	.33	.36		219	
CATA	28	1015	1110	1030	N15	E32	.542		30.8	55	-B			1030	.79	.97		240	
CATA	28	1045	1105	1045	N16	E36	.599		31.1	20	-N			1045	1.07	1.35		174	
MONT	28	1130	1210	1142	N18	E35	.593	8911	31.1	40	1B			1142	1.86				H
CATA	28	1135	1155	1135	N14	E32	.539		30.9	20	-B			1135	.64	.77		240	
HUAN	28	1143E	1146		N15	E31	.529		30.8	3D	-F	1	P	1144	.25	.26			D
MONT	28	1300	1421D		S22	W70	.960	8901	23.3	81D	1N								
LOCK	28	1847	1932	1855	N12	E02	.119	8907	28.9	45	1N		C	1855	3.10	3.10		20	H
HUAN	28	1849	1904	1854	N11	E02	.102	8907	28.9	15	1N	2	C	1854	2.73	2.73			H

SOLAR FLARES
PRELIMINARY

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OBSERVATORY	DATE 1967 JULY	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
MCMA	28	1849	1910	1854	N13	E03	.141	8907	29.0	21	-R		V	1854	1.55	1.50			HV
HALE	28	1851	1912	1857	N11	E03	.109	8907	29.0	21	1R	2	C	1857	2.68	2.70			
SACP	28	1854E	1857D	1854U	N12	E02	.119	8907	28.9	3D	1N		P		3.03	2.98			
LOCK	28	1935	2045	1945	S33	W90	1.001	8899	22.1	70	1F		C		.70	2.80		10	
LOCK	28			2017															
LOCK	29	0045	0059	0049	S33	W90	1.001	8901	22.3	14	1F		C	0049	.90	3.60		10	H
MITK	29	0242E	0258		N17	E08	.240	8907	29.7	16D	1R		C	0242	3.30	3.50			FH
HALE	29	0242	0326	0246	N16	E19	.364	8907	30.5	44	1R	2	C	0246	3.30	3.60			
HALE	29	0400	0458D	0432	S26	W63	.931	8901	24.4	58D	2R	3	P	0432	2.89				CGSU
MITK	29	0404	0446D		S28	W63	.935	8901	24.4	42D	2F		C	0414	2.06				GH
CATA	29	0625	0640	0625	N17	E22	.413		30.9	15	-N			0625	1.29	1.40		174	
CATA	29	0645	0720	0645	N19	E18	.376	8907	30.6	35	1R			0645	3.05	3.27		269	
MONT	29	0755	0850	0825	N25	W12	.384	8905	28.4	55	1R			0825	2.58				E
CATA	29	0820	0855	0826	N24	W15	.398		28.2	35	-R			0826	.78	.86		331	
SALO	29	0825E	0840D		N24	W14	.388		28.3	15D	-N		P	0830	.66	.70	.14		
CAPF	29	0829E	0836D		N24	W17	.417		28.1	7D	-N		P	0830	1.18	1.25			
MONT	29	0943	1030	1005	S22	W90	1.001	8901	22.7	47	1R								
MONT	29	0953	1015	0958	N26	W15	.422	8905	28.3	22	1R			0958	1.86				H
ARCE	29	0957	1013	0957	N27	W18	.461	8905	28.1	16	1N		C	0957	3.24	3.60			H
CATA	29	1000	1017	1000	N26	W19	.460	8905	28.0	17	2R			1000	4.80	5.49		219	
MONT	29	1038	1130	1052	N17	E10	.260	8907	30.2	52	1N			1052	1.86				
CATA	29	1040	1130	1045	N17	E12	.283	8907	30.3	50	1N			1045	1.94	2.02		166	
ARCE	29	1042	1047D		N19	E12	.306		30.3	5D	-N		C	1047	.76	.80			
MONT	29	1105	1200	1130	S22	W90	1.001	8901	22.7	55	1N								
MONT	29	1112	1120	1114	N29	W17	.476		28.2	8	-F			1114	.41				
CAPF	29	1128E	1136D		N28	W12	.426		28.6	8D	-N		P	1130	1.18	1.31			
CAPS	29	1128E	1139		N27	W10	.398		28.7	11D	-R	3		1135	1.20	1.30		210	
MONT	29	1128	1150	1132	N27	W06	.378	8905	29.0	22	1N			1132	3.09				
LOCA	29	1452	1514D	1507	N25	W11	.377	8905	28.8	22D	1N		S	1507	2.10	2.30			
HUAN	29	1453	1553	1508	N25	W13	.392	8905	28.6	60	1N	2	C	1508	1.80	1.84			E
HUAN	29	1453	1553	1531	N24	W20	.449	8905	28.1	60	1N	2	C						
SACP	29	1455E	1529D	1522U	N25	W16	.419	8905	28.4	34D	1N		C		2.53	2.55			
MONT	29	1458	1521D		N26	W17	.440	8905	28.3	23D	2R			1505	5.16				E
CAPS	29	1500E	1550D		N27	W14	.427		28.6	50D	-R	3		1510	1.40	1.50		195	FK
LOCK	29	1505E	1600	1525	N26	W16	.431	8905	28.4	55D	1N		C	1525	2.00	2.20		20	
LOCK	29	1525	1605	1535	S29	W90	1.001	8901	22.9	40	1F		C		.60	2.40		10	H
LOCK	29			1553															
HALE	29	1608	1645	1616	N28	W06	.393		29.2	37	-F	2	C	1616	1.03	1.10			
LOCK	29	1608	1655	1642	S29	W90	1.001	8901	22.9	47	1N		C	1642	1.10	4.40		20	L
LOCK	29	1609	1622	1612	N30	W06	.424		29.2	13	-F		C	1612	1.00	1.10		10	
SALO	29	1610E	1625D		N27	W04	.371	8905	29.4	15D	1R		P	1620	1.32	1.40	.14		
LOCK	29	1724	1750	1730	N16	E12	.271		30.6	26	-F		C	1730	.80	.80		10	
HUAN	29	1726	1736	1729	N15	E11	.248		30.6	10	-F	2	C	1729	.52	.52			E
HALE	29	1727	1800	1733	N15	E10	.236		30.5	33	-N	1	C	1733	.41	.40			
LOCK	29	1735	1812	1742	N14	W01	.148		29.7	37	-N		C	1742	2.00	2.00		20	
HUAN	29	1736	1806	1741	N15	E00	.164	8907	29.7	30	1N	2	C	1741	2.01	2.00			
HALE	29	1738	1823	1744	N15	W02	.168		29.6	45	-R	2	C	1744	1.55	1.60			
LOCK	29	1815	1845	1830	S29	W90	1.001	8901	23.0	30	1F		C	1830	.90	3.60		10	L
LOCK	29	1930	2025	1947	N20	W18	.386	8905	28.5	55	1R		C	1947	2.30	2.50		30	
HUAN	29	1931E	2017		N24	W22	.471		28.2	46D	-R	1	P	1949	1.60	1.63			E
SACP	29	1943	2014E	1947	N23	W22	.461	8905	28.2	31D	1N		C		3.23	3.28			
HALE	29	1946	2024	1951	N23	W22	.461	8905	28.2	38	1R	1	C	1951	2.06	2.30			E
LOCK	29	1933	2048	1950	N16	E09	.237	8907	30.5	75	1N		C	1950	3.00	3.00		20	
HUAN	29	1935	2003		N15	E10	.236		30.6	28	-R	1	C	1948	1.50	1.50			
HALE	29	1937	2025	1954	N15	E10	.236		30.6	48	-R	1	C	1954	1.55	1.60			
SACP	29	1941E	2015D	1947	N15	E09	.224	8907	30.5	34D	1N		C		2.53	2.47			
HALE	29	1955	2003	1958	N13	E04	.147		30.1	8	-F	1	C	1958	.21	.20			
MANI	30	0508E	0520D	0513	N25	W29	.557	8905	28.0	12D	1R	2		0513	1.86	2.25			
WEND	30	0516E	0535		N23	W27	.519	8905	28.2	19D	1N		V		4.13				
CAPS	30	0624E	0643		N27	W28	.562	8905	28.2	19D	1R	3		0629	2.00	2.40		294	H
CATA	30	0631	0700	0631	N29	W28	.578	8905	28.2	29	1R			0631	4.11	5.09		363	
MONT	30	0940	1050	1020	N28	W33	.622	8905	27.9	70	1R			1020	2.06				E
MONT	30	1000	1050	1028	N15	W02	.166	8907	30.3	50	2R			1028	5.16				
SALO	30	1040E	1115D		N12	W05	.140		30.1	35D	-R		P	1100	.66	.70	.15		
SALO	30	1040E	1115		N13	W04	.146	8907	30.1	35D	1R		P	1100	1.32	1.40	.15		
LOCA	30	1045	1130	1056	N14	W06	.178		30.0	45	-N		V	1056	1.26	1.30			
CAPS	30	1048	1135		N15	W07	.202		29.9	47	-R	3		1054	1.40	1.40		196	
HUAN	30	1139E	1155		N13	W08	.187	8907	29.9	16D	1F	1	C	1140	2.73	2.73			
HUAN	30	1409	1447	1418	N15	W08	.212	8907	30.0	38	1R	2	C	1418	3.76	3.75			
LOCA	30	1410	1432D	1418	N14	W08	.199		30.0	22D	-R		V	1418	1.68	1.70			
CAPS	30	1411	1443		N15	W09	.223	8907	29.9	32	1R	2		1418	2.00	2.00		220	
SACP	30	1414	1446U	1417	N14	W10	.224	8907	29.8	32U	1R		C		3.87	3.79			
LOCK	30	1554	1618	1601	N13	W06	.164		30.2	24	-R		C	1601	1.30	1.30		30	K
HUAN	30	1555	1611	1601	N13	W07	.175	8907	30.1	16	1R	2	C	1601	2.78	2.78			
SACP	30	1555	1617U	1601	N13	W06	.164	8907	30.2	22U	1R		C		3.05	2.99			
WEND	30	1603E	1614		N13	W04	.146	8907	30.4	11D	1N		V		3.09				
HALE	30	1604E	1641	1604E	N12	W06	.151		30.2	37D	-R	1	P	1604	.57	.60			
SACP	30	1611	1654U	1634	N26	W36	.642	8905	28.0	43U	1N		C		2.24	2.50			

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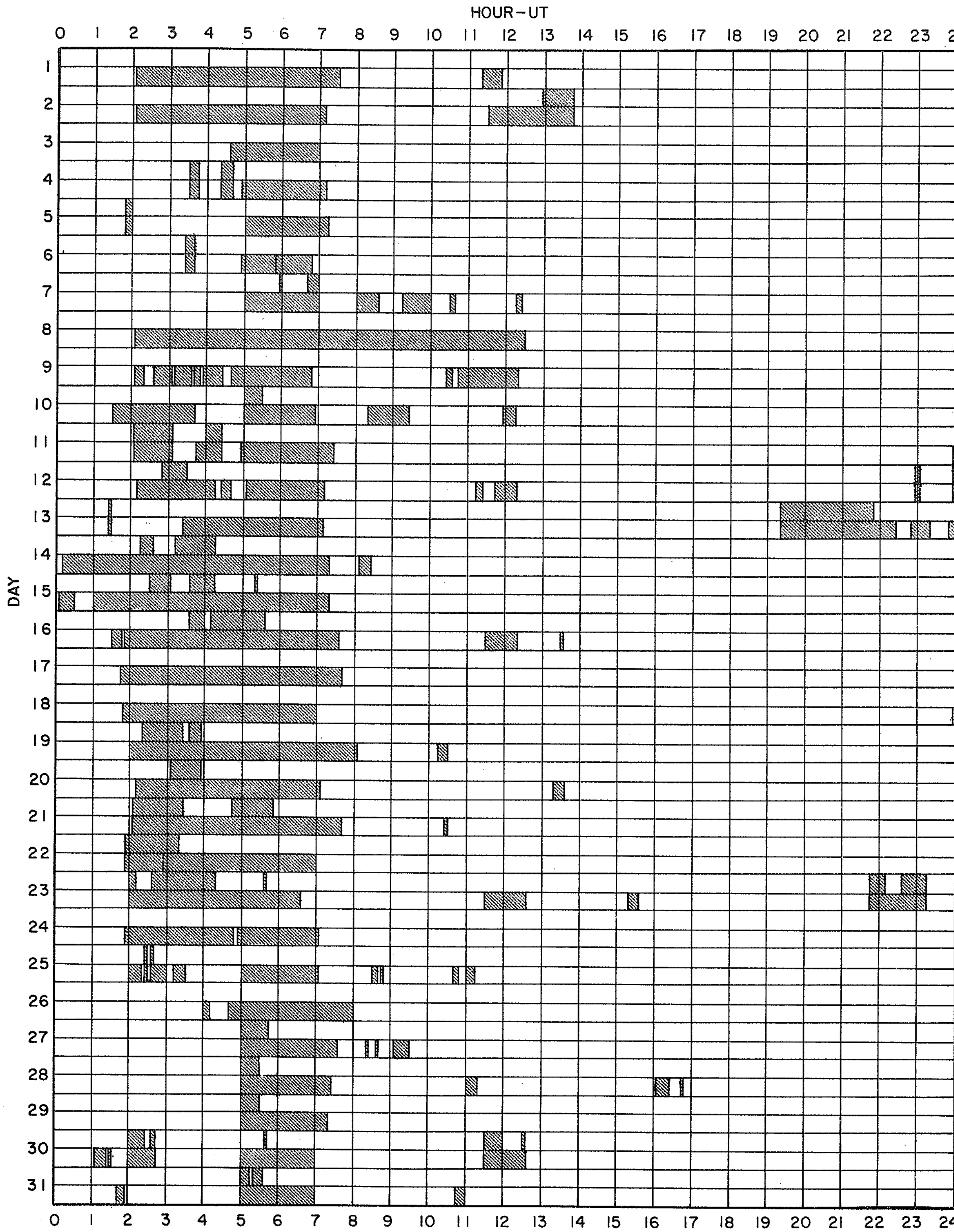
OBSERVATORY	DATE 1967 JULY	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
HUAN	30	1612	1654	1636	N28	W37	.664	8905	27.9	42	1N	2	C	1636	2.27	2.56			
LOCK	30	1612	1700	1636	N25	W37	.648		27.9	48	-N		C	1636	1.30	1.70		20	
HALE	30	1615	1710	1639	N26	W35	.631		28.1	55	-B	2	C	1639	.93	1.20			
WEND	30	1626	1651		N25	W35	.626	8905	28.1	25	1N		V		5.16				
LOCK	30	1717	1750	1724	N24	W35	.620		28.1	33	-N		C	1724	.80	1.00		20	
SACP	30	1723E	1744	1724	N23	W34	.603		28.2	21D	-N		C		.71	.77			
WEND	30	1723	1744		N22	W35	.610	8905	28.1	21	1N		V		3.09				
HUAN	30	1723	1747	1726	N24	W35	.620		28.1	24	-F	2	C	1726	.41	.45			E
HALE	30	1723	1753	1732	N23	W33	.591		28.2	30	-N	3	C	1732	.41	.50			
SACP	31	0018	0056	0028	N27	W33	.615		28.5	38	-N		C		1.02	1.11			
SACP	31	0045	0140	0055	N22	W39	.657	8905	28.1	55	1B		C		1.95	2.18			
HALE	31	0057E	0123	0057	N22	W38	.645	8905	28.2	26D	1B	1	C	0057	2.06	2.70			T
HALE	31	0240	0258	0244	N24	E80	.980	8916	6.1	18	1F	1	C	0244	.72				TC
CATA	31	0805	0845	0815	N28	W45	.744	8905	28.0	40	1B			0815	2.62	3.92		240	
CAPS	31	0807	0853		N23	W41	.683	8905	28.3	46	1B	3		0827	2.80	3.60		204	FHK
ARCE	31	0810	0836	0825	N27	W46	.750	8905	27.9	26	1N		C	0825	1.40	2.10			
MONT	31	0810	0900	0830	N28	W45	.744	8905	28.0	50	2B			0830	5.16				H
CATA	31	0815	0855	0820	N24	W42	.698	8905	28.2	40	1N			0820	1.53	2.16		191	
WEND	31	0820	0838		N28	W45	.744	8905	28.0	18	1N		V		4.13				
WEND	31	0825	0851		N23	W40	.672	8905	28.4	26	1N		V		5.16				
ARCE	31	0825	0855	0828	N22	W45	.724	8905	28.0	30	1N		C	0828	2.18	3.00			
SALO	31	0830E	0845D		N27	W40	.690		28.4	15D	-N		P	0840	.50	.70	.13		
SALO	31	0830E	0845D		N23	W39	.661	8905	28.4	15D	1N		P	0840	1.16	1.60	.13		
ZURI	31	0832E	0850	0835	N24	W45	.730	8905	28.0	18D	1N		P	0835	2.10	3.00			
LOCA	31	0832E	0853		N22	W43	.702		28.1	21D	-N		V	0832	.73	1.00			H
CAPF	31	0834E	0845D		N28	W40	.694		28.4	11D	-N		P	0837	1.18	1.65			
MONT	31	0848	0950	0900	S26	W01	.526	8912	31.3	62	2B			0900	5.16				
CAPS	31	0855	0933		N15	E12	.259	8913	1.3	38	1B	3		0858				256	
ARCE	31	0855	0940	0855	N13	E10	.213	8913	1.1	45	1N		C	0855	5.01	5.10			
CATA	31	0855	0945	0855	N15	E12	.259	8913	1.3	50	1B			0855	2.75	2.86		288	
ZURI	31	0856	0928	0858	N13	E09	.199	8913	1.0	32	1N		P	0858	3.57	3.60			
CAPF	31	0907E	0916D		N13	E09	.199		1.1	9D	-N		P	0907	1.18	1.20			
CATA	31	0940	1040	0955	N25	W38	.659	8905	28.6	60	1B			0955	1.86	2.50		209	
ARCE	31	0945	1005D		N26	W38	.663		28.6	20D	-N		C	0945	.36	.50			
AROS	31	0946E	1006		N25	W30	.568	8905	29.2	20D	1N		V						
CATA	31	1110	1143	1115	S26	E37	.742	8914	3.2	33	1B			1115	1.66	2.40		263	
WEND	31	1113	1206		S23	E37	.721	8914	3.2	53	1B		V		5.16				
CAPS	31	1117E	1155		S23	E34	.693	8914	3.0	38D	1B	3		1121	2.50	3.50		246	
HUAN	31	1139E	1207		S26	E35	.725		3.1	28D	-B	2	P	1140	.75	.98			E
WEND	31	1221	1250		N21	W41	.676	8905	28.4	29	1N		V		4.13				
MONT	31	1224	1255	1228	N28	W47	.764	8905	28.0	31	1B			1228	3.09				L
HUAN	31	1225	1255	1228	N23	W46	.738	8905	28.1	30	1B	2	C	1228	3.76	4.53			H
CAPF	31	1229E	1237D		N28	W44	.735		28.2	8D	-N		P	1229	.59	.86			
CAPS	31	1229E	1248		N22	W40	.668		28.5	19D	-B	3		1234	1.30	1.80		288	
SALO	31	1230E	1320D		N23	W42	.695		28.4	50D	-N		P	1250	.33	.50	.12		
SACP	31	1231E	1300	1231	N22	W43	.702	8905	28.3	29D	1N		C		1.90	2.22			
SACP	31	1450	1552	1512	N25	W47	.754	8905	28.1	62	1N		C		1.94	2.38			
HUAN	31	1503	1538	1514	N27	W49	.779		28.0	35	-N	2	C	1514	.75	.94			E
CAPS	31	1504E	1531		N23	W44	.716		28.3	27D	-N	3		1507	.80	1.10			E
LOCA	31	1510E	1540	1512	N27	W45	.741		28.3	30D	-N		V	1512	1.05	1.50			H
MONT	31	1512	1600D		N28	W45	.744	8905	28.3	48D	1B			1530	2.58				E
SACP	31	1502	1557	1526	N13	E08	.187	8913	1.2	55	1N		C		2.55	2.50			
LOCK	31	1515	1542	1524	N14	E05	.168		1.0	27	-N		C	1524	1.30	1.30		20	
LOCA	31	1516	1545D	1519	N12	E10	.203		1.4	29D	-N		V	1519	1.05	1.10			
HUAN	31	1517	1551	1521	N13	E07	.175		1.2	34	-N	2	C	1521	1.39	1.39			E
HUAN	31	1517	1551	1521	N13	E12	.240		1.5	34	-N	2	C						
CAPS	31	1520E	1538		N15	E09	.222		1.3	18D	-N	3		1523	.70	.70			
HUAN	31	1949	2042	2003	N27	W45	.741	8905	28.5	53	1N	2	C	2003	1.89	2.28			E
HALE	31	1952	2056	2005	N27	W45	.741	8905	28.5	64	1N	1	C	2005	1.65	2.50			T
SACP	31	2014E	2040	2020	N26	W44	.727	8905	28.5	26D	1N		C		2.86	3.44			
SACP	31	2046	2141	2115	N22	W48	.756	8905	28.3	55	2B		C		7.13	8.86			
HUAN	31	2048	2140	2113	N23	W50	.779	8905	28.1	52	1B	2	C	2113	3.51	4.42			H
HALE	31	2051	2148	2052	N24	W49	.771		28.2	57	-B	1	C	2052	.52	.80			TKW
LOCK	31	2047	2140	2058	N11	W51	.774		28.0	53	1B		C	2115	3.20	5.10		30	HK
LOCK	31			2115															

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

JULY 1967



Observatories included in total patrol:

Anacapri-F (German)	Catania	Haleakala	Houston	Lockheed	Monte Mario	Thessaloniki	Zürich
Arosa	Firenze	Herstmonceux	Locarno	Manila	Sacramento Peak	Wendelstein	

Beginning with this issue, patrol times for each day will be divided into cinematographic patrol (bottom half of day) and total patrol (top half of day).

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JULY 1967

JUL. 1967	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}(c/s)^{-1}$ PEAK	MEAN	INT	REMARKS
1	606 SGMR	45	1104.6	1104.7	.4	27.8	14.4		
	184 BOUL	6	1637	1638	2			1	
2	2800 OTTA	2	1448	1448.3	1	4.2	2.1		
	2700 PENN	45	1448.3	1448.3	.4	11.3	5.6		
	2695 SGMR	22	1446	1448.3	16.5	2.0	.6		
	1415 SGMR	22	1445	1448.5	17.5	5.1	1.7		
	960 PENN	1	1448.5	1448.5	.2	20.6	6.9		
	606 SGMR	22	1445	1456.3	20	9.6	2.0		
	606 SGMR	23	1509	1521.8	32	13.4	1.6		
	2800 OTTA	1	1747	1748	6	1.8	0.9		
3	184 BOUL	44	1835	1957	263			1	
	2800 OTTA	1	1843.5	1844	3	1.2	0.6		
4	184 BOUL	41	1125	1206	60			1	
	2800 OTTA	1	1306	1306.5	1	2.2	1.1		
	10700 PENN	20	1717.4	1728	30.1	3.9	2.0		
	8800 SGMR	21	1708.8	1722.1	74.2	11.3	3.6		
	8800 SGMR	1	1719.3	1720.5	2	3.8	1.3		
	4995 SGMR	21	1711.4	1724.7	30.6	9.2	3.1		
	4995 SGMR	3	1719.1	1720.6	2.1	10.8	3.6		
	2800 OTTA	21	1710	1720	45	4.8	2.4		
	2800 OTTA	4	1720	1720.5	6	12.0	4.0		
	2700 PENN	20	1713.4	1722	31.5	3.4	1.7		
	2700 PENN	45	1719.8	1720.8	5.8	11.2	3.8		
	2695 SGMR	21	1710.8	1722.9	43.2	8.5	2.9		
	2695 SGMR	3	1720.8	1721.7	3.9	28.8	9.6		
	1415 SGMR	4	1716.7	1720.4	24.3	8.3	2.8		
	960 PENN	20	1711	1720.5	32.8				
	606 SGMR	45	1716.7	1720.7	22.1	21.4	7.1		
	486 WASH	45	1720	1721	3	50.0			
5	184 BOUL	44	0101	0133	96			1	
	184 BOUL	6	1512	1514	3			1	
	184 BOUL	6	1612	1615	6			2	
	2800 OTTA	2	1746.7	1747	.6	1.8	0.9		
	10700 PENN	24	1840		20				
	8800 SGMR	20	1837.5	1851	26	9.5	2.0		
	4995 SGMR	20	1832	1850.7	23	7.8	1.5		
	2800 OTTA	21	1842	1843.5	50	3.2	1.6		
	2800 OTTA	2	1846	1851	7	5.6	2.8		
	2700 PENN	20	1841.8	1850.9	11.6	9.3	4.7		
	2700 PENN	29	1853.4	1853.4	30.4	2.9	1.5		
	2695 SGMR	20	1832.6	1850.9	28.4	11.4	2.0		
	1415 SGMR	22	1834.1	1851	18.9	10.8	2.5		
	606 SGMR	45	1845	1859	21.5	45.2	10.0		
	486 WASH	45	1858	1859	6	120.0			
	184 BOUL	6	1841	1844	9			2	
	184 BOUL	6	2001	2001	2			2	
6	2700 PENN	1	1706	1706.3	1.4	3.5	2.3		
	2700 PENN	20	2024.8	2030.7	13.7	1.7	0.9		
	2700 PENN		2129.4	2129.4	.1	24.2	0.7		SPIKE
7	1415 SGMR	45	1137.5	1137.9	.5	5.9	2.0		
	606 SGMR	45	1137.5	1137.7	1.5	27.9	9.4		
	2800 OTTA	21	1910	2000	85	5.0	2.5		
	2800 OTTA	2	1948	1949.5	2	3.4	1.7		
	486 WASH	3	1959	1959	1	110.0			
	2800 OTTA	20	2040	2100	115	3.8	1.9		
8	2800 OTTA	21	1745	1925	325	4.0	3.4		
	606 SGMR	40	1756	1756.2	3.7	2.0	1.0		
	4995 SGMR	40	1757	1801.7	5.2	8.4	3.5		
	2800 OTTA	1	1958	1959	2	1.4	0.7		
	2700 PENT	1	2327	2327.2	2	2.4	1.2		
9	2700 PENT	21		0117	110 D	5.4			
	2700 PENT	1	0046	0049	7	4.0	2.0		
	2700 PENT	2	0108	0111	6	4.4	2.2		
	184 BOUL	42	0242	0348	73			1	
	10700 PENN	1	1412.9	1416.6	6.5	3.5	1.8		
	10700 PENN	20	1420.1	1423.6	11.2	3.9	2.0		
	486 WASH	45	1549	1551	5	240.0			
	486 WASH	41	1608	1609	33	240.0			
10	2700 PENN	20	1247.2	1251.6	8.8	1.7	0.8		
	2695 SGMR	1	1458.8	1459	.4	2.1	1.0		
	1415 SGMR	3	1459.4	1459.5	.2	11.0	3.0		
	606 SGMR	40	1458.8	1459	.7	3.5	1.5		
	8800 SGMR	3	1502.1	1502.1	.1	19.7	7.0		
	4995 SGMR	1	1502.1	1502.1	.1	5.0	2.0		
	2695 SGMR	1	1501.8	1502	.4	2.6	1.5		
11	2800 OTTA	20	2041	2042	7	2.6	1.3		
	2800 OTTA	20	2144	2145.5	15	2.6	1.3		
12	184 BOUL	44	2222	2217	58			1	
13	2700 PENT	24	2335		25	2.6			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JULY 1967

JUL. 1967	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} Wm^{-2} (c/s)^{-1}$		INT.	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
14	2800	OTTA	1	1700	1701	2	2.8	1.4		
15	2800	OTTA	20	1140	1300	130	3.6	1.8		
	8800	SGMR	1	1529	1530.3	3	6.2	2.1		
	4995	SGMR	3	1529.9	1530.5	2.1	7.8	2.9		
	2800	OTTA	1	1530	1530.5	1	1.8	0.9		
	184	BOUL	44	1812	1840	218			1	
	8800	SGMR	1	2151.3	2151.5	1.5	5.0	2.0		
	4995	SGMR	3	2151.3	2151.5	.7	8.2	3.0		
	2800	OTTA	1	2300	2302	3	2.0	1.0		
16	2700	PENN	45	1855.8	1855.9	2.2	7.3	3.5		
	2700	PENN	45	1902.3	1904.7	7.6	7.3	1.8		
18	2700	PENN	1	1850.7	1851.8	3.1	3.6	1.2		
	2700	PENN	1	1918.6	1920.1	2.4	7.4	3.4		
19	2700	PENN	1	1646.7	1646.9	.5	7.3	4.0		
	486	WASH	3	2305	2308	5	135.0			
20	2800	OTTA	20	1150	1307	140	5.6	2.8		
	4995	SGMR	1	1307.6	1307.7	1.7	3.3	1.0		
	2695	SGMR	20	1302.8	1306.8	7.9	4.4	2.0		
	1415	SGMR	1	1306.4	1306.9	1.6	1.8	1.0		
	606	SGMR	1	1306.6	1307.2	2	.7	.3		
	2800	OTTA	20	1917	1919	16	4.0	2.0		
	2700	PENN	3	2153	2153	1	18.2	1.4		
	2800	OTTA	20	2205	2209	40	5.4	2.7		
	2700	PENN	20	2206.2	2209.2	37.4	5.4	2.5		
	606	SGMR	20	2225.4	2229.4	5	7.0	1.7		
	2800	OTTA	1	2319	2219.7	2	2.2	1.1		
21	486	WASH	41	2045	2047	5	145.0			
	1415	SGMR	1	2143	2144.2	4.2	4.1	2.0		
	606	SGMR	1	2143.5	2143.7	.5	6.1	3.0		
	2700	PENT	21	2324	2330	11	4.6	2.3		
	2700	PENT	1	2327	2327.1	1	3.2	1.6		
22	2800	OTTA	20	1130	1232	175	9.0	4.5		
	2800	OTTA	20	1440	1515	80	3.6	2.8		
	606	SGMR	40	1606.2	1606.7	1.2	1.9	1.0		
	8800	SGMR	3	1651.4	1653.6	9.9	14.5	4.8		
	4995	SGMR	3	1651.1	1653.6	10.4	12.4	4.1		
	2800	OTTA	20	1635	1653	80	9.4	4.2		
	2800	OTTA	24	1800		150	7.6			
23	2800	OTTA	26	1250	1320	90	8.6	4.3		
	606	SGMR	40	1245	1247.8	7.5	3.8	1.5		
	606	SGMR	45	1257.7	1301.3	7.4	40.7	10.0		
	8800	SGMR	1	1521.4	1521.4	.6	5.8	2.0		
	4995	SGMR	22	1515.5	1521.5	11.5	12.3	3.0		
	2695	SGMR	40	1520.5	1521.5	1.9	2.1	1.0		
	1415	SGMR	20	1512.7	1521.4	14.3	9.0	3.0		
	2800	OTTA	26	1530	1553	40	3.4	1.7		
	1415	SGMR	40	1553.6	1557.8	8.4	3.7	1.5		
	606	SGMR	41	1552.4	1555.5	6.8	39.5	15.0		
	1415	SGMR	1	1811.6	1811.9	.6	.9	.3		
	606	SGMR	41	1811.6	1813.1	11.6	72.0	3.8		
	486	WASH	41	1812	1814	10	280.0			
	2800	OTTA	1	1858	1859	2	1.8	0.9		
	1415	SGMR	41	1911.3	1911.5	2.3	5.7	1.9		
	606	SGMR	41	1911.3	1911.4	2.3	5.6	1.8		
	8800	SGMR	1	2018.7	2020.2	5.3	4.3	1.4		
	4995	SGMR	1	2018.5	2019.6	5.4	6.0	2.0		
	2800	OTTA	1	2020	2020.5	1.5	1.2	0.6		
	8800	SGMR	3	2111.1	2114.7	6	35.4	11.8		
	4995	SGMR	3	2112.3	2114.8	4.9	20.5	6.8		
	2800	OTTA	4	2113	2114.7	3	36.0	12.0		
	2800	OTTA	29	2116		10	5.0	2.5		
	2695	SGMR	3	2113.2	2114.6	3.9	22.6	7.2		
	1415	SGMR	45	2113	2114.7	3.2	51.0	16.8		
	606	SGMR	45	2113.3	2114.7	3.7	66.0	15.8		
	486	WASH	45	2112	2115	5	85.0			
24	486	WASH	41	0027	0035	10	525.0D			OFF SCALE
	2700	PENT	1	0034	0034.4	2	5.0	2.5		
	2700	PENT	1	0039.5	0040.1	1.5	6.2	3.1		
	1415	SGMR	3	0959.5	0959.6	.4	52.0	17.1		
	606	SGMR	45	0958.7	0959.5	2.5	120.0	40.3		
	8800	SGMR	1	1237.5	1237.8	2.5	1.4	.5		
	4995	SGMR	3	1237	1237.9	5.5	9.3	3.1		
	2800	OTTA	21	1140	1255	110	6.8	3.8		
	2800	OTTA	2	1244	1245	4	6.0	3.6		
	2695	SGMR	1	1244.1	1244.6	19.7	5.3	1.8		
	1415	SGMR	1	1244.2	1244.7	14.4	5.8	1.9		
	8800	SGMR	3	1408.2	1409.6	6	16.4	5.5		
	4995	SGMR	1	1408.2	1409.6	6.1	4.4	1.5		
	8800	SGMR	3	1514.1	1514.3	2.8	10.4	3.5		
	4995	SGMR	1	1514.2	1514.3	3.5	7.4	2.5		
	2800	OTTA	1	1514	1514.5	1	6.4	3.0		
	2695	SGMR	1	1514.3	1514.4	1.8	4.0	1.3		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JULY 1967

JUL. 1967	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} (c/s)^{-1}$ PEAK	MEAN	INT	REMARKS
24	8800 SGMR	20	1949.2	1950.4	15.8	16.1	4.0		
	4995 SGMR	20	1949.5	1954.4	14.5	4.8	1.2		
	8800 SGMR	21	2027	2036.9	44	51.0	17.0		
	8800 SGMR	45	2046.4	2051.4	18	215.0	42.0		
	4995 SGMR	20	2027.1	2034.9	44.9	24.0	8.0		
	2800 OTTA	20	2025	2035	50	7.0	3.2		
	2695 SGMR	20	2030.4	2035.2	32.6	5.5	2.0		
	1415 SGMR	3	2056.5	2056.6	1.2	16.4	5.4		
	606 SGMR	3	2055.3	2055.5	4.7	52.0	17.3		
	8800 SGMR	3	2139.6	2139.8	2.4	31.4	10.5		
25	8800 SGMR	45	1054.2	1055.5	2.6	420.0	120.0		
	4995 SGMR	45	1054.3	1055.6	2.6	220.0	83.0		
	2800 OTTA	4	1054	1056	6	60.0	28.0		
	2695 SGMR	3	1054.4	1055.7	3.5	42.6	14.2		
	2800 OTTA	29	1100		55	11.0	9.0		
	10700 PENN	45	1212.7	1214.5	19.7	131.7	8.3		
	2800 OTTA	25	1303		93	18.0			
	10700 PENN	3	1303.8	1304.4	5.6	137.6	22.4		
	10700 PENN	20	1316.4	1322.6	11.4	9.8	4.9		
	8800 SGMR	3	1303.6	1304.3	3.2	165.0	57.6		
	4995 SGMR	3	1303.8	1304.4	3.2	93.0	39.2		
	2800 OTTA	3	1303.7	1304.5	3	40.0	17.0		
	2695 SGMR	3	1303.7	1304.5	2.6	34.4	11.5		
	1415 SGMR	40	1302.7	1303	4.3	5.3	2.0		
	606 SGMR	1	1304	1306.9	8.5	3.1	1.0		
	8800 SGMR	28	1408	1426.7	18.7	20.2	10.1		
	4995 SGMR	28	1408	1426.8	18.8	14.7	7.3		
	10700 PENN	45	1427	1427.8	17.6	314.0D	37.0D		
	8800 SGMR	45	1426.7	1427.4	7.8	1170.0	390.0		
	4995 SGMR	45	1426.8	1427.5	7.7	700.0	235.0		
	2800 OTTA	4	1427	1427.5	8	190.0	58.0		
	2700 PENN	45	1427.2	1427.9	11	180.0	27.0		
	2695 SGMR	45	1426.9	1427.6	8.6	225.0	72.0		
	1415 SGMR	3	1427.1	1427.3	8.5	93.0	31.3		
	960 PENN	45	1427	1427.6	1	8.0	3.0		
	606 SGMR	1	1427.3	1427.5	.3	8.8	2.9		
	10700 PENN	29	1444.6	1453.2	50.4	9.6	5.2		
	8800 SGMR	29	1434.5	1434.5	64.9	37.8	18.9		
	4995 SGMR	29	1434.5	1434.5	81.2	24.5	12.2		
	2700 PENN	29	1438.2	1438.2	59	6.7	3.3		
	2695 SGMR	29	1435.5	1435.5	85.5	9.5	4.7		
	1415 SGMR	29	1435.6	1435.6	49.8	1.9	1.0		
	10700 PENN	45	1621	1624.6	5.6	71.9	24.1		
	10700 PENN	3	1642	1643.1	2.8	48.3	9.7		
	10700 PENN	29	1626.6	1626.6	46.9	30.8	15.4		
	8800 SGMR	21	1608.3	1624.6	56.7	81.0	20.3		
	8800 SGMR	3	1642.8	1643.1	3.6	37.4	12.4		
	4995 SGMR	21	1606.8	1624.9	40.2	9.3	2.3		
	4995 SGMR	1	1643	1643.2	2.4	4.9	1.6		
	10700 PENN	3	1940.4	1940.9	1.4	31.3	12.5		
	8800 SGMR	3	1940.4	1940.9	1.8	32.1	16.0		
	4995 SGMR	3	1939.9	1941.2	2.7	10.3	5.1		
	2800 OTTA	20	1935	2000	30 D	2.6			
	2695 SGMR	1	1940.6	1941.3	1.9	4.1	2.0		
	10700 PENN	3	2014.8	2015.3	1.2	14.0	12.5		
	8800 SGMR	3	2014.7	2015.2	3.7	21.9	10.9		
	2800 OTTA	20	2030	2100	90	4.4	2.2		
	2800 OTTA	1	2255	2256	2	3.4	2.0		
	1415 SGMR	3	2254.9	2255.2	1.2	72.0	36.0		
	606 SGMR	3	2255	2255.8	1.5	15.2	7.6		
	8800 SGMR	3	2259	2259.6	1.4	51.0	25.6		
	4995 SGMR	3	2259	2259.6	2	57.0	28.7		
	2800 OTTA	3	2259	2259.5	3	9.0	4.0		
	2695 SGMR	3	2259	2259.6	2	9.0	4.5		
	8800 SGMR	3	2315.8	2317.7	4.2	83.0	41.6		
	4995 SGMR	3	2316	2317.6	4.7	43.2	21.6		
	2800 OTTA	4	2316.2	2318	2	8.8	4.4		
	2800 OTTA	29	2318.2		7	2.2	1.1		
	2695 SGMR	3	2317.2	2317.6	.8	8.2	4.1		
	1415 SGMR	3	2315.7	2317.6	2.3	18.2	9.1		
	606 SGMR	3	2316	2317.9	2	34.2	17.1		
26	2700 PENT	24	0053		35	4.6			
	8800 SGMR	3	1115	1115.3	1	57.0	28.7		
	2800 OTTA	21	1110	1150	380	9.2	4.6		
	8800 SGMR	20	1251	1303.6	27.6	14.0	4.7		
	4995 SGMR	20	1259.6	1303.8	12.2	4.2	1.4		
	10700 PENN	45	1343.2	1344.4	16.8	46.2	21.2		
	10700 PENN	29	1400	1400	25	9.8	4.9		
	8800 SGMR	3	1343.4	1345	6.5	35.0	12.0		
	4995 SGMR	20	1343.4	1345	13.6	4.9	1.6		
	2700 PENN	20	1342	1345	18	3.3	1.5		
	10700 PENN	3	1456	1457.7	20	45.0	6.0		
	8800 SGMR	3	1457.7	1458.1	2.8	50.0	25.2		
	4995 SGMR	1	1458	1458.2	.9	6.0	3.0		
	10700 PENN	3	1534.7	1535.8	3.3	18.7	6.2		
	8800 SGMR	3	1535.1	1536.2	8.9	28.0	14.0		
	4995 SGMR	3	1535.1	1536.3	2.1	14.0	7.0		
	2800 OTTA	3	1535	1536	2	20.0	10.0		
	2700 PENN	3	1534.6	1535.7	7.4	13.8	2.8		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JULY 1967

JUL. 1967	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} (c/s)^{-1}$ PEAK	MEAN	INT.	REMARKS
26	2695	SGMR	3	1535.7	1536.1	1.3	15.5	7.8		
	1415	SGMR	3	1535.5	1536.2	1.5	8.1	4.0		
	960	PENN	1	1535.4	1535.8	1.4	.9	0.3		
	606	SGMR	3	1535.2	1535.3	1.2	16.4	8.2		
	10700	PENN	45	1622.6	1637.7	30	29.5	9.8		
	8800	SGMR	21	1622	1623.8	23	14.0	7.0		
	8800	SGMR	3	1637.2	1637.7	2.8	31.5	14.0		
	4995	SGMR	1	1623.1	1623.9	6.9	6.3	3.1		
	10700	PENN	20	1732	1742.8	31	5.1	2.7		
	10700	PENN	3	1742.8	1743	21.2	247.9	9.8		
	10700	PENN	3	1804.6	1805.1	2.2	18.7	9.0		
	8800	SGMR	45	1742.6	1743.1	16.4	590.0	34.5		
	4995	SGMR	45	1742.6	1743.1	15.4	140.0	19.6		
	2800	OTTA	21	1740	1752	30	5.4	2.7		
	2800	OTTA	4	1742.5	1743.2	1.5	70.0	35.0		
	2800	OTTA	1	1744.5	1745.3	1.5	7.2	3.6		
	2700	PENN	3	1742.8	1743.3	7.2	67.6	7.7		
	2695	SGMR	45	1742.6	1743.1	14.4	37.0	7.8		
	1415	SGMR	45	1742.7	1743.1	6.3	26.6	5.6		
	960	PENN	1	1743	1743.4	.6	1.2	0.6		
	606	SGMR	45	1740.9	1743.1	24.4	71.0	9.2		
	2800	OTTA	26	1810	1825	28	4.8	3.2		
	2800	OTTA	21	1838	1850	25	2.0	1.0		
	2800	OTTA	1	1840	1840.5	1	1.0	0.5		
	10700	PENN	3	2026.4	2026.8	1.2	21.2	15.9		
	10700	PENN	20	2151.2	2200	37.8	9.4	4.7		
	8800	SGMR	3	2045.7	2047.1	6.3	13.8	6.9		
	2800	OTTA	22	2030	2215	155	5.0	2.5		
	2700	PENN	1	2236.2	2236.3	.4	7.4	5.5		
	8800	SGMR	3	2330.5	2331.2	3.5	145.0	50.0		
	4995	SGMR	3	2330.7	2331.2	1.8	34.3	15.0		
	2700	PENT	21	2315	0010	150 D	18.0			
	2700	PENT	40	0010	0011.5	3	44.0			
	606	SGMR	45	2307	2307.7	13	40.7	8.0		
27	1415	SGMR	3	1021.4	1023.4	4.3	12.2	6.1		
	606	SGMR	3	1021.6	1023	3.4	65.0	32.3		
	10700	PENN	3	1121.3	1122.4					DUR. SUNRISE
	8800	SGMR	3	1120.1	1121.9	4	55.0	25.0		
	606	SGMR	45	1111.7	1114	16.3	520.0	21.8		
	606	SGMR	40	1141	1143	739 D	39.0	7.0		
	1415	SGMR	3	1131.2	1136	8.5	300.0	60.0		
	606	SGMR	3	1130	1136.7	10	41.3	8.6		
	2800	OTTA	20	1220	1250	60	4.4	2.2		
	10700	PENN	45	1356.8	1358.9	4.2	54.3	14.6		
	10700	PENN	3	1408	1408.2	.4	16.6	10.4		
	10700	PENN	29	1401	1401	17.1	10.1	5.1		
	8800	SGMR	3	1358.5	1359.8	2.5	40.7	9.0		
	8800	SGMR	3	1408	1408.2	3.6	20.7	10.3		
	4995	SGMR	3	1408.1	1408.3	2.9	20.4	10.2		
	2700	PENT	2	1408.5	1408.8	1.2	3.8	1.9		
	2695	SGMR	1	1408	1408.4	4	3.2	1.6		
	2800	OTTA	20	1510	1535	45	2.6	1.3		
	2800	OTTA	1	1553	1553.8	1	4.0	2.0		
	1415	SGMR	1	1553.3	1553.7	1.7	4.8	2.4		
	606	SGMR	45	1550.3	1553.5	4.7	210.0	26.0		
	486	WASH	45	1545	1554	11	525.0D			OFF SCALE
	10700	PENN	3	1607.4	1609	4	35.9	6.7		
	8800	SGMR	3	1608.1	1608.5	2.2	41.4	20.7		
	4995	SGMR	3	1608.2	1608.7	1.8	39.8	19.9		
	2800	OTTA	21	1600	1610	20	2.6	1.3		
	2800	OTTA	4	1607	1608.8	3	22.0	8.0		
	2700	PENN	45	1607.3	1609.2	4.5	29.6	7.6		
	2695	SGMR	3	1607.7	1608.7	3.3	16.8	8.4		
	1415	SGMR	4	1602	1608.1	8.4	32.2	16.1		
	960	PENN	45	1608.2	1608.5	1.4	1.5	0.5		
	606	SGMR	4	1604	1608.6	9	590.0	240.0		
	486	WASH	45	1603	1609	12	525.0D			OFF SCALE
	2700	PENN	20	1636.6	1740	167.8	7.4	3.7		
	10700	PENN	20	1631	1708	76.6	10.3	5.1		
	8800	SGMR	3	1714	1715.8	8	15.6	7.0		
	8800	SGMR	20	1734	1737.4	11	17.0	8.0		
	4995	SGMR	20	1735	1737.4	10	10.0	5.0		
	606	SGMR	45	1725.1	1725.2	3.8	43.3	8.0		
	486	WASH	41	1702	1708	30	190.0			
	2800	OTTA	20	1800	1815	45	3.4	1.7		
	606	SGMR	4	1841.1	1842.3	3.3	35.1	16.0		
	8800	SGMR	3	1900.5	1900.6	1.5	15.6	7.0		
	2800	OTTA	20	1857	1858	13	2.0	1.0		
	606	SGMR	4	1908.8	1909.3	5.7	155.0	12.0		
	486	WASH	45	1904	1909	12	525.0D			OFF SCALE
	10700	PENN	3	2010.3	2011.2	4.3	31.0	7.9		
	10700	PENN	3	2034.4	2034.8	1	10.4	6.1		
	8800	SGMR	3	2011.7	2012.1	3.3	34.0	17.0		
	4995	SGMR	3	2011.6	2012.2	3.4	35.0	17.0		
	2800	OTTA	4	2011.5	2012	1	24.0	12.0		
	2800	OTTA	29	2012.5		3	2.0	1.0		
	2700	PENN	45	2007.8	2011.4	10	32.9	2.9		
	2695	SGMR	3	2011.7	2012.4	3.3	28.0	14.0		
	1415	SGMR	4	2011.7	2012.1	5.3	17.6	8.8		
	960	PENN	3	2004	2004.5	.8	10.8	5.4		

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JUL. 1967	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} Wm^{-2} (c/s)^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
27	960 PENN	45	2010.3	2010.9	3.3	5.1	0.9		
	960 PENN	3	2013.5	2014.7	1.4	9.1	1.5		
	606 SGMR	4	2010.6	2011.9	12.3	16000.0	400.0		
	486 WASH	45	2009	2013	15	525.0D			OFF SCALE
	2800 OTTA	21	2110	2125	25	2.2	1.1		
	2800 OTTA	2	2115	2116	3	5.6	3.0		
	486 WASH	41	2112	2128	25	110.0			
28	486 WASH	41	0023	0023	7	100.0			
	486 WASH	45	0051	0053	8	525.0D			OFF SCALE
	2700 PENT	2	0052.5	0052.7	.5	2.4	1.2		
	2700 PENT	21	0100	0120	45 D	9.2			
	2700 PENT	2	0144	0145	2	6.8	3.4		
	486 WASH	41	0142	0148	20	180.0			
	606 SGMR	40	0928 E	2303.5	882 D	94.0	U		
	8800 SGMR	3	1134.4	1135.3	7.6	13.4	6.0		
	4995 SGMR	3	1134.3	1135.3	5.7	19.2	9.0		
	2800 OTTA	21	1134	1335	175	6.4	4.0		
	2800 OTTA	1	1134	1136	5	4.8	2.4		
	2695 SGMR	3	1134.3	1135.9	3.4	22.0	10.0		
	1415 SGMR	3	1134.4	1135.4	2.1	10.6	5.3		
	8800 SGMR	20	1158	1201.1	8	16.8	8.4		
	4995 SGMR	20	1158	1200	8	10.6	5.3		
	2800 OTTA	21	1510		400	11.0	8.0		
	606 SGMR	45	1535	1535.7	2	20.9	8.0		
	2800 OTTA	2	1603	1605	6	6.0	3.0		
	8800 SGMR	3	1618.2	1618.6	1.5	64.0	21.4		
	8800 SGMR	29	1619.7	1619.7	9.9	17.4	5.8		
	4995 SGMR	3	1618	1618.5	1.6	77.0	25.6		
	4995 SGMR	29	1619.6	1619.6	13.3	14.9	5.0		
	2800 OTTA	3	1618	1618.5	2	14.0	7.0		
	2695 SGMR	3	1618.3	1618.7	1.2	6.0	2.0		
	2695 SGMR	29	1619.5	1619.5	6	2.0	.7		
	10700 PENN	3	1636.2	1636.6	1.2	26.3	8.1		
	2700 PENN	1	1636.2	1636.8	1.8	6.7	3.3		
	4995 SGMR	1	1724	1724.1	1	2.4	1.2		
	2800 OTTA	1	1724	1724.2	.5	4.6	2.3		
	2695 SGMR	1	1723.8	1724.1	1.7	7.2	3.6		
	1415 SGMR	3	1723.7	1724.1	1.3	10.6	5.0		
	606 SGMR	41	1719.5	1724.1	5	225.0	25.0		
	486 WASH	45	1718	1724	12	525.0D			OFF SCALE
	2700 PENN	1	1742	1742.1	.5	1.7	1.2		
	960 PENN	1	1741.8	1742.1	.8	.5	0.2		
	10700 PENN	45	2248.8	2249.5	15.2	156.4	12.0		
	8800 SGMR	3	2231.1	2231.7	7.2	160.0	54.0		
	4995 SGMR	3	2231.1	2231.7	8.7	91.0	30.4		
	2800 OTTA	3	2231	2232	3	24.0	10.0		
	2800 OTTA	29	2234		20	4.8	2.8		
	2700 PENN	3	2248.8	2249.5	15	17.8	2.9		
	2695 SGMR	3	2231	2232	4	11.7	3.9		
	486 WASH	41	2232	2304	40	100.0			
	2800 OTTA	1	2311.3	2312	2	5.0	2.5		
29	2700 PENT	20	0115	0123	15	2.8	1.8		
	486 WASH	45	0207	0212	10	485.0			
	606 SGMR	40	0929 E	1947.7	880 D	115.0	U		
	8800 SGMR	20	1127.5	1132	12.5	13.2	6.6		
	4995 SGMR	20	1127.5	1130.7	12.5	12.0	6.0		
	2800 OTTA	26	1300		60	6.4			
	8800 SGMR	20	1459	1502.5	15	9.9	4.5		
	4995 SGMR	20	1452	1502.5	22	24.0	12.0		
	2800 OTTA	23	1450	1503	70	12.0	6.0		
	2695 SGMR	20	1457.3	1502.7	16.7	7.4	3.7		
	10700 PENN	3	1528.8	1529.6	2	8.6	4.3		
	8800 SGMR	3	1528	1529.4	4	13.2	6.6		
	4995 SGMR	3	1528	1529.6	6	14.4	7.2		
	2800 OTTA	3	1529	1529.7	4	9.6	4.8		
	2700 PENN	3	1528.8	1529.7	3	10.8	7.0		
	2695 SGMR	3	1528	1529.6	8	9.0	4.5		
	1415 SGMR	1	1528	1529.6	5	6.2	3.1		
	606 SGMR	4	1528	1529.5	3	40.7	20.0		
	8800 SGMR	23	1707.7	1953.3	358.9	57.0	18.5		
	4995 SGMR	23	1709.6	1953.3	357	38.4	12.0		
	2800 OTTA	21	1700	1740	320	13.0	5.5		
	2695 SGMR	23	1707.8	1953.3	355.4	15.2	4.9		
	1415 SGMR	23	1703.2	1952.2	347.9	31.0	9.1		
	606 SGMR	23	1702.5	1959	225.3	98.0	3.8		
	8800 SGMR	3	1836.1	1837	1.4	13.2	4.4		
	4995 SGMR	3	1836.2	1837.1	1.7	10.6	3.6		
	2800 OTTA	1	1836	1837	2	6.0	3.0		
	2695 SGMR	1	1836.8	1837.1	1	2.0	.7		
	1415 SGMR	3	1837	1837.1	.2	24.4	8.1		
	606 SGMR	1	1836.2	1837	1.9	1.9	.6		
	10700 PENN	45	1943.6	1948.8	18.4	26.1	12.3		
	2800 OTTA	21	1940	1950	60	8.8	4.0		
	2800 OTTA	2	1944.8	1945	1	5.4	2.7		
	2800 OTTA	4	1947	1949	3	10.0	6.0		
	2800 OTTA	4	1952	1953.3	3	10.0	4.0		
	2800 OTTA	3	1958.5	1959.2	1.5	8.8	4.4		
	960 PENN	45	1944.7	1948	3.9	3.6	0.8		
	486 WASH	41	1945	1948	15	525.0D			OFF SCALE

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JUL. 1967	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} W_m{}^{-2} (c/s)^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
29	10700 PENN	3	2242.7	2244	3.3	62.7	11.5		
	8800 SGMR	3	2242.5	2243.8	1.6	86.0	28.8		
	4995 SGMR	3	2242.6	2243.9	1.8	48.0	16.0		
	2800 OTTA	21	2243	2258	45	4.8	2.4		
	2800 OTTA	4	2243	2244	3	7.6	3.4		
	2800 OTTA		2247		1	12.0			SPIKES
	2800 OTTA	3	2255	2256	2	8.2	4.1		
	2800 OTTA	2	2259	2302	3.5	5.6	2.8		
	2800 OTTA	2	2311.8	2312	3	6.6	4.0		
	960 PENN	1	2242.8	2243.2	.8	3.3	1.1		
30	8800 SGMR	3	1047.5	1048.7	3	28.8	9.6		
	4995 SGMR	3	1047.6	1048.7	5.5	49.5	16.6		
	2695 SGMR	3	1047.6	1048.9	5.7	27.4	9.1		
	1415 SGMR	3	1047.6	1048.7	10	21.6	7.2		
	606 SGMR	4	1047.6	1047.7	9.9	15.2	5.1		
	8800 SGMR	1	1247.7	1249	2.1	5.1	1.7		
	4995 SGMR	3	1247.6	1248.7	2.6	15.5	5.2		
	2800 OTTA	1	1248	1249	2	6.8	3.4		
	2695 SGMR	3	1247	1249.2	6.3	8.2	2.7		
	606 SGMR	4	1248	1249.3	3	15.2	5.1		
	184 BOUL	6	1246	1249	5			1	
	8800 SGMR	1	1335.8	1335.9	.3	4.5	1.5		
	4995 SGMR	1	1335.8	1335.9	1.3	6.0	2.0		
	2695 SGMR	3	1335.8	1335.9	1.7	7.8	2.6		
	1415 SGMR	1	1335.5	1335.9	.9	1.8	.6		
	606 SGMR	1	1335.9	1335.9	.2	1.5	.5		
	10700 PENN	3	1414.5	1416.2	4.5	29.8	12.0		
	10700 PENN	29	1419	1419	12	9.9	5.0		
	2800 OTTA	4	1414.8	1416.5	3.2	38.0	19.0		
	2800 OTTA	30	1418		30	8.4	4.2		
	2800 OTTA	3	1423	1424	2	8.4	4.2		
	1415 SGMR	45	1414.8	1416.4	14.7	67.0	22.3		
	960 PENN	45	1414.5	1416.2	3.1	4.9	1.2		
	606 SGMR	45	1414.4	1414.9	16.1	58.0	19.9		
	184 BOUL	6	1417	1417	2			1	
	2800 OTTA	1	1458	1459	2	3.4	1.7		
	8800 SGMR	1	1505.1	1507	2.6	2.6	.9		
	4995 SGMR	3	1505	1506.7	4.2	19.5	6.5		
	2800 OTTA	4	1504	1507	6	14.0	6.5		
	2695 SGMR	3	1504.8	1506.7	5.3	12.3	4.1		
	1415 SGMR	1	1504.8	1506.7	6.6	4.6	1.5		
	606 SGMR	4	1504.6	1506.3	2.9	30.0	10.0		
	184 BOUL	6	1504	1508	6			1	
	10700 PENN	3	1600	1600.4	1.1	46.9	19.1		
	8800 SGMR	4	1559.8	1600.5	53.2	86.0	28.6		
	4995 SGMR	4	1559.6	1600.8	55.4	110.0	34.0		
	2800 OTTA	3	1600	1601	5	34.0	9.0		
	2800 OTTA	3	1611.5	1612.2	1.5	15.6	12.0		
	2800 OTTA	30	1613		40	8.4	4.2		
	2800 OTTA	1	1613.5	1614	1	10.0	5.0		
	2800 OTTA	45	1622	1623.5	7	5.4	2.2		
	2800 OTTA	28	1623		2.5	3.4	2.2		
	2800 OTTA	46	1625.5	1626.5	14	25.0	13.0		
	2695 SGMR	4	1600	1600.7	49	35.3	11.8		
	1415 SGMR	4	1559.6	1601	58	85.0	28.3		
	960 PENN	45	1600.2	1600.5	1.7	14.3	3.3		
	606 SGMR	4	1559.7	1600.8	58.3	620.0	205.0		
	486 WASH	3	1600	1601	4	525.0D			OFF SCALE
	486 WASH	45	1626	1632	10	525.0D			OFF SCALE
	184 BOUL	6	1600	1602	9			2	
	184 BOUL	42	1624	1626	10			1	
	1415 SGMR	1	1720	1725.2	10.2	5.7	1.9		
	606 SGMR	3	1721	1725.1	9.5	10.0	3.3		
	184 BOUL	42	1724	1730	6			1	
	1415 SGMR	1	1804.6	1804.9	1.4	6.6	3.3		
	606 SGMR	1	1804.1	1805.6	1.9	5.4	2.7		
	2800 OTTA	21	1930	2045	170	8.4	5.0		
	8800 SGMR	4	1946.6	1950	30.4	39.6	13.2		
	4995 SGMR	4	1946.9	1949.2	30.1	49.0	16.3		
	2800 OTTA	45	1947	1949.8	7	38.0	16.0		
	2800 OTTA	29	1954		10	3.4	1.7		
	2695 SGMR	4	1946	1949.8	9.5	32.0	10.7		
	1415 SGMR	4	1936.7	1949.7	80.3	9.2	3.1		
	606 SGMR	2	1936.1	1940.8	15.3	7.2	2.4		
	2800 OTTA	1	2022	2022.5	1	2.2	1.1		
	2800 OTTA	1	2042	2043	2	2.8	1.4		
	606 SGMR	3	2042.4	2043	4.6	12.6	4.2		
	2800 OTTA	21	2155	2217	20	4.0	2.0		
	2800 OTTA	4	2202	2202.5	4	11.0	6.0		
	2800 OTTA	3	2208	2209.5	3	15.0	6.4		
	2800 OTTA	1	2212.5	2212.8	1.5	3.4	1.7		
	1415 SGMR	40	2201.8	2204	28.2	6.6	3.0		
	606 SGMR	40	2203.9	2209.8	7.1	25.2	5.0		
31	2700 PENT	21	0015	0025	45	5.8	2.9		
	2700 PENT	1	0018.5	0019.2	3	3.2	1.6		
	2700 PENT	4	0050.5	0052.2	6	23.0	11.0		
	2700 PENT	4	0122	0125	7.5	9.4	4.9		
	2700 PENT	29	0129.5		16 D	2.4			
	2700 PENT	1	0138.5	0139.2	1.5	5.8	2.9		

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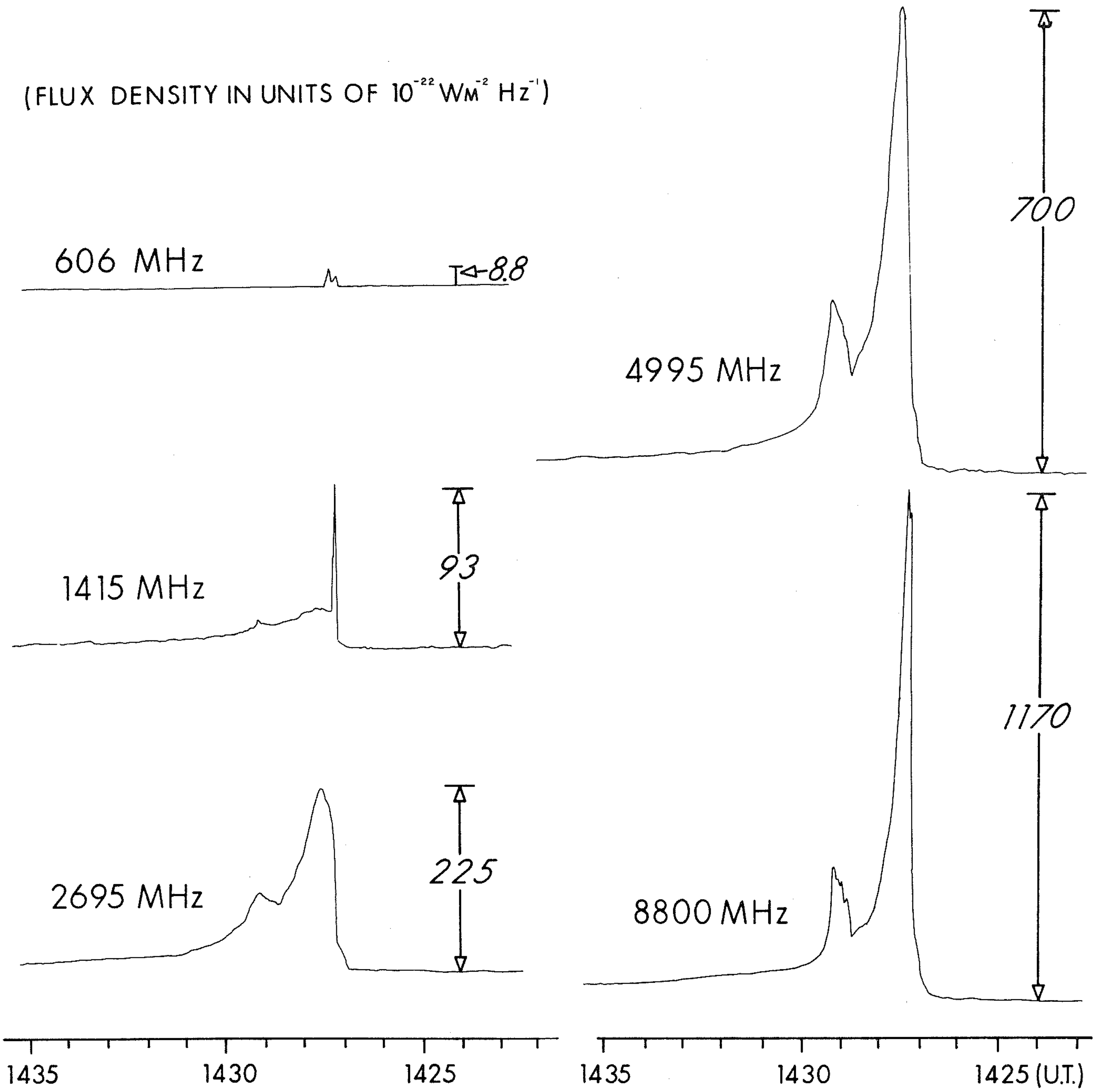
JULY 1967

JUL. 1967	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}(c/s)^{-1}$ PEAK	MEAN	INT	REMARKS
31	8800	SGMR	20	1115.9	1124.8	25	11.1	3.7		
	4995	SGMR	20	1114.1	1124.9	26.9	9.0	3.0		
	2695	SGMR	20	1114.9	1122.1	49.3	7.6	2.5		
	1415	SGMR	20	1113.8	1122.2	25.4	4.2	1.4		
	606	SGMR	45	1114.5	1115.9	15.1	25.0	3.3		
	184	BOUL	42	1210	1236	98			1	
	8800	SGMR	4	1224.8	1225.8	13.5	37.7	12.6		
	4995	SGMR	4	1224.9	1226.6	8.1	25.5	8.5		
	2800	OTTA	4	1225	1227	4	30.0	15.0		
	2695	SGMR	4	1224.9	1226.5	5.9	24.0	8.0		
	1415	SGMR	45	1224.9	1227	3.7	105.0	25.0		
	606	SGMR	4	1224.9	1225.5	5.6	23.4	7.8		
	606	SGMR	1	1350.3	1350.7	.6	4.6	1.5		
	8800	SGMR	3	1500.8	1504.2	22.2	540.0	160.0		
	4995	SGMR	3	1500.8	1504.2	24.2	440.0	120.0		
	2800	OTTA	3	1502	1504.5	6	120.0	33.0		
	2800	OTTA	29	1508		30	3.4	1.7		
	2695	SGMR	3	1501.3	1504.3	7.1	115.0	34.5		
	1415	SGMR	1	1502	1504.3	3.5	6.3	2.1		
	606	SGMR	1	1503.3	1504.3	2.4	5.7	1.9		
	2800	OTTA	2	1720	1721	5	5.8	2.9		
	606	SGMR	22	1715.2	1721.8	9.9	9.7	2.4		
	486	WASH	41	1703	1722	20	90.0			
	2800	OTTA	20	1830	1855	75	5.0	2.5		
	606	SGMR	3	1855	1855.4	.5	13.7	4.4		
	8800	SGMR	20	1956.4	2000.2	15.6	59.2	19.4		
	4995	SGMR	3	1948.5	2000.3	23.5	60.7	20.3		
	2800	OTTA	20	1950	2000	30	7.2	3.6		
	8800	SGMR	4	2054.1	2054.3	4.9	29.6	9.9		
	4995	SGMR	4	2054.4	2055.7	4.6	19.8	6.6		
	2800	OTTA	20	2050	2112	50	6.6	3.3		
	1415	SGMR	4	2054.2	2055.7	2.8	46.2	15.4		
	606	SGMR	4	2054	2056	5	176.4	58.8		
	1415	SGMR	1	2111	2111.1	1	2.4	1.2		
	606	SGMR	4	2105.5	2112.2	9.5	47.5	15.8		
	2800	OTTA	20	2155	2215	45	3.2	1.6		
	2700	PENT	2	2335	2337.5	4	4.6	2.3		
	2700	PENT	3	2342	2343	2	14.8	8.0		

SELECTED SOLAR NOISE BURST
AFCRL SAGAMORE HILL

JULY 1967



COMPLEX RADIO BURST OBSERVED ON 25 JULY, 1967
AT SAGAMORE HILL RADIO OBSERVATORY (AFCRL)
HAMILTON, MASS.

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

JULY 1967

University of Colorado

7.6-41 Mc/s

Date July 1967	Bursts Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
1	continuum	b1130.0-a2559.0	1	16-41
	IIIg	1143.6-1145.1	2	11-41
	IIIG	1633.4-1642.3	3	7.6-41
	III	1712.7-1713.2	2	8-41
	III	1757.0-1757.6	2	9-41
	IIIg	1925.0-1929.3	2	8-41
	IIIg	2110.4-2112.6	2	11-41
	III	2246.4-2246.8	2	8-41
2	III	1215.4-1215.6	1	17-41
	continuum	1228.9-a2540.0	1	17-41
	IIIg	1338.4-1339.3	2	16-41
	III	1345.7-1346.4	2	16-41
	IIIg	1400.3-1401.3	3	16-41
	IIIg	1411.5-1415.7	3	14-41
	IIIg	1426.8-1429.1	3	12-41
	IIIg	1751.5-1801.2	3	7.6-41
	III	2447.9-2448.6	3	16-41
	IIIg	2533.4-2534.8	3	20-41
3	IIIg	1218.6-1220.8	1	19-41
	continuum	1355.0-a2540.0	1	22-41
	IIIg	2531.4-2532.3	1	22-41
4	continuum	1221.0-1557.0	1	20-41
	III	1416.1-1416.4	2	18-41
	III	1434.4-1434.9	2	22-41
	III	1449.1-1449.5	2	18-41
	continuum	1710.1-1736.0	1	22-41
	IIIG	1716.0-1725.3	3	7.6-41
	III	1828.2-1828.8	2	7.6-41
	III	1835.1-1835.9	3	7.6-41
	IIIg	1840.1-1840.6	2	20-41
	IIIg	1851.1-1856.0	1	22-41
	IIIg	2122.5-2128.3	3	8-41
	III	2138.2-2138.7	2	18-41
	IIIg	2154.5-2157.9	1	26-41
	IIIg	2213.0-2217.7	1	22-41
	IIIg	2226.4-2229.3	2	12-41
	III	2245.3-2245.7	3	24-41
	III	2325.4-2325.6	1	26-41
	IIIg	2414.4-2429.0	3	11-41
	III	2437.5-2437.8	1	24-41
5	III	1219.3-1219.8	1	16-41
	III	1252.3-1252.6	1	24-38
	III	1320.7-1322.0	3	12-41
	IIIg	1336.4-1344.7	2	20-41
	IIIg	1450.3-1451.2	1	22-41
	IIIg	1512.0-1516.1	3	7.6-41
	IIIg	1528.0-1529.6	2	10-41
	IIIg	1538.4-1539.2	1	10-41
	III	1600.9-1601.2	2	20-41
	III	1606.7-1607.0	2	10-41

Date July 1967	Bursts Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
5	IIIg	1613.8-1620.7	3	7.6-41
	III	1630.2-1630.6	1	20-41
	III	1659.7-1700.1	1	26-41
	IIIG	1715.4-1723.0	3	10-41
	III	1727.0-1727.3	1	18-41
	IIIG	1842.0-1851.7	3	7.6-41
	IV	1907.3-2120.0	2	26-41
	III	2010.7-2011.5	3	20-41
	III	2023.1-2023.7	3	20-41
	III	2028.3-2028.9	3	16-41
	IIIg	2038.7-2040.3	3	20-41
	IIIg	2150.5-2156.3	3	12-41
	IIIg	2248.4-2252.0	3	16-41
	IIIg	2353.5-2357.6	2	20-41
	III	2425.2-2425.6	2	24-41
	III	2501.8-2502.1	1	24-41
	III	2533.4-2533.7	1	20-41
6	continuum	1451.5-1525.3	1	25-41
	III	1635.3-1635.8	1	24-41
	IIIg	1648.0-1650.7	2	25-41
	IIIg	1826.9-1831.5	1	24-41
	IIIg	1903.5-1912.0	1	24-41
	IIIg	2007.6-2009.8	3	12-41
	III	2158.2-2158.6	3	16-41
7	III	1228.6-1229.5	2	12-41
	III	1236.6-1236.9	1	14-41
	III	1326.8-1327.2	1	23-41
	IIIg	1621.3-1624.4	1	20-41
	III	1959.6-2000.0	2	19-41
	IIIg	2036.6-2037.3	2	20-41
	IIIg	2119.3-2123.4	2	24-41
	III	2256.8-2257.2	2	23-41
	III	2302.8-2303.2	2	28-41
8	III	1316.1-1316.4	2	32-41
	III	1730.5-1731.0	1	28-41
	IIIg	1945.5-1948.9	2	20-41
	IIIg	2509.2-2513.4	2	30-41
9	IIIg	1649.0-1650.7	2	22-41
	IIIg	1735.3-1736.3	2	20-41
	IIIg	1742.3-1744.8	2	12-41
	III	2407.3-2408.2	3	16-41
	continuum	2538.4-2546.0	2	22-41
10	IIIg	1323.7-1327.6	1	22-41
	III	1632.9-1633.2	1	26-40
	III	2042.3-2042.8	1	22-40
11	III	1632.8-1633.2	2	20-35
	IV	2037.0-2150.0	1	26-41
	III	2347.2-2347.6	2	17-41
	IIIg	2454.1-2455.9	1	24-41
12	IIIg	1535.6-1536.2	1	25-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

JULY 1967

University of Colorado 7.6-41 Mc/s

Date July 1967	Bursts			
	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
12	III	1626.4-1626.7	1	22-41
	III'g	1745.7-1746.3	1	16-41
	IV	1805.0-1836.0	1	27-41
	III	2337.5-2337.7	1	24-36
	IIIg	2354.4-2357.4	2	12-41
13	III	1328.5-1328.8	2	22-41
	IIIG	2350.6-2355.7	2	19-41
14	continuum	2330.7-2359.0	1	17-41
16	IIIg	1234.8-1235.6	2	16-41
	III	1302.1-1302.5	1	24-41
	IIIg	1536.2-1537.2	3	12-41
	IIIg	1550.8-1555.1	3	12-41
	IIIg	1848.0-1850.8	1	20-41
	IIIg	2416.9-2417.5	3	22-41
17	IIIg	1500.2-1502.3	1	24-41
	IIIg	1510.3-1513.7	1	20-41
	continuum	1635.6-1646.0	2	23-41
	III	1659.1-1659.4	1	22-41
	III	1711.8-1712.1	1	24-41
	IIIg	1952.9-1955.6	2	12-41
	IIIg	2027.6-2028.3	2	7.6-41
18	IIIG	1324.9-1329.6	3	20-41
	III	1715.9-1716.3	2	22-41
	III	1808.3-1808.6	2	24-41
19	III	1726.7-1727.1	2	25-41
	IIIg	1910-2-1911.4	1	26-41
	III	2053.6-2054.0	1	22-41
	continuum	2103.0-a2630	1	25-41
	III	2144.6-2145.2	2	20-41
20	III	1243.4-1243.7	1	30-41
	IIIG	1301.5-1308.3	2	22-41
	III	1357.7-1358.0	1	22-41
	III	1718.5-1719.4	3	20-41
	III	1757.5-1757.9	1	30-38
	III	1903.4-1903.8	2	23-41
	III	1917.3-1917.8	1	24-41
	III	1929.5-1930.0	1	18-41
	III	1950.7-1951.0	1	26-41
	IIIg	2014.6-2018.3	1	20-41
	IIIg	2125.4-2133.3	3	12-41
	continuum	2207.5-a2540.0	1	25-41
	IIIg	2254.8-2259.4	2	20-41
	IIIG	2400.5-2407.3	3	16-41
	IIIg	2435.2-2437.4	3	16-41
	III	2510.0-2510.6	2	23-41
21	IIIg	1230.7-1235.1	1	24-41
	IIIg	1315.1-1320.8	2	22-41
	III	1343.7-1344.0	2	24-38
	III	1351.3-1351.6	1	30-41
	III	1419.4-1419.7	1	24-41

Date July 1967	Bursts			
	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
21	IIIg	1454.5-1500.6	1	25-41
	III	1535.5-1535.8	1	26-41
	IIIg	1559.1-1604.8	1	23-41
	continuum	1646.1-a2500.0	1	24-41
	IIIg	1854.6-1858.2	2	20-41
	III	2018.0-2018.5	2	12-41
	IIIg	2047.8-2056.6	3	11-41
	III	2111.6-2112.2	3	22-41
	IIIg	2143.1-2145.1	3	12-41
	IIIg	2218.6-2219.8	3	10-41
	IIIG	2258.2-2305.0	2	16-41
	III	2314.4-2315.1	3	15-41
	IIIG	2325.2-2333.7	3	12-41
	IIIg	2340.1-2341.3	3	12-41
22	continuum	b1217.0-a2600.0	1	22-41
	IIIg	1418.1-1421.9	3	24-41
	IIIG	1547.0-1559.2	3	7.6-41
	III	1606.1-1608.5	3	18-41
	IIIg	1701.1-1702.5	3	30-41
	IIIG	2117.9-2127.4	2	24-41
	III	2356.1-2357.0	3	12-41
	III	2403.0-2403.7	3	11-41
	IIIg	2421.0-2422.5	3	16-41
23	continuum	b1215.0-a2550.0	1	20-41
	IIIG	1240.4-1249.8	3	20-41
	IIIg	1256.0-1302.8	3	16-41
	III	1440.0-1440.6	3	20-41
	III	1506.1-1507.7	3	16-41
	III	1529.8-1532.4	3	12-41
	IIIg	1542.5-1546.6	3	16-41
	IIIG	1557.2-1606.9	3	12-41
	III	1629.9-1630.7	3	12-41
	IIIg	1638.5-1640.9	3	14-41
	IIIg	1650.3-1652.5	3	10-41
	IIIg	1726.8-1728.3	3	12-41
	IIIG	1808.7-1825.2	3	12-41
	IIIg	1828.9-1833.0	2	12-41
	IIIg	1908.9-1913.4	3	12-41
	IIIg	1919.0-1920.9	3	12-41
	IIIg	2006.6-2010.4	3	12-41
	IIIg	2015.1-2018.3	3	12-41
	III	2038.2-2038.8	3	20-41
	IIIG	2111.5-2120.4	3	11-41
	IV	2120.4-2303.8	3	26-41
	IIIG	2220.2-2228.7	3	10-41
	IIIG	2422.5-2429.6	3	15-41
	IIIg	2431.6-2439.6	3	16-41
	IIIg	2516.0-2519.4	3	22-41
24	continuum	b1219.0-a2600.0	1	20-41
	IIIg	1240.7-1243.0	2	16-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

JULY 1967

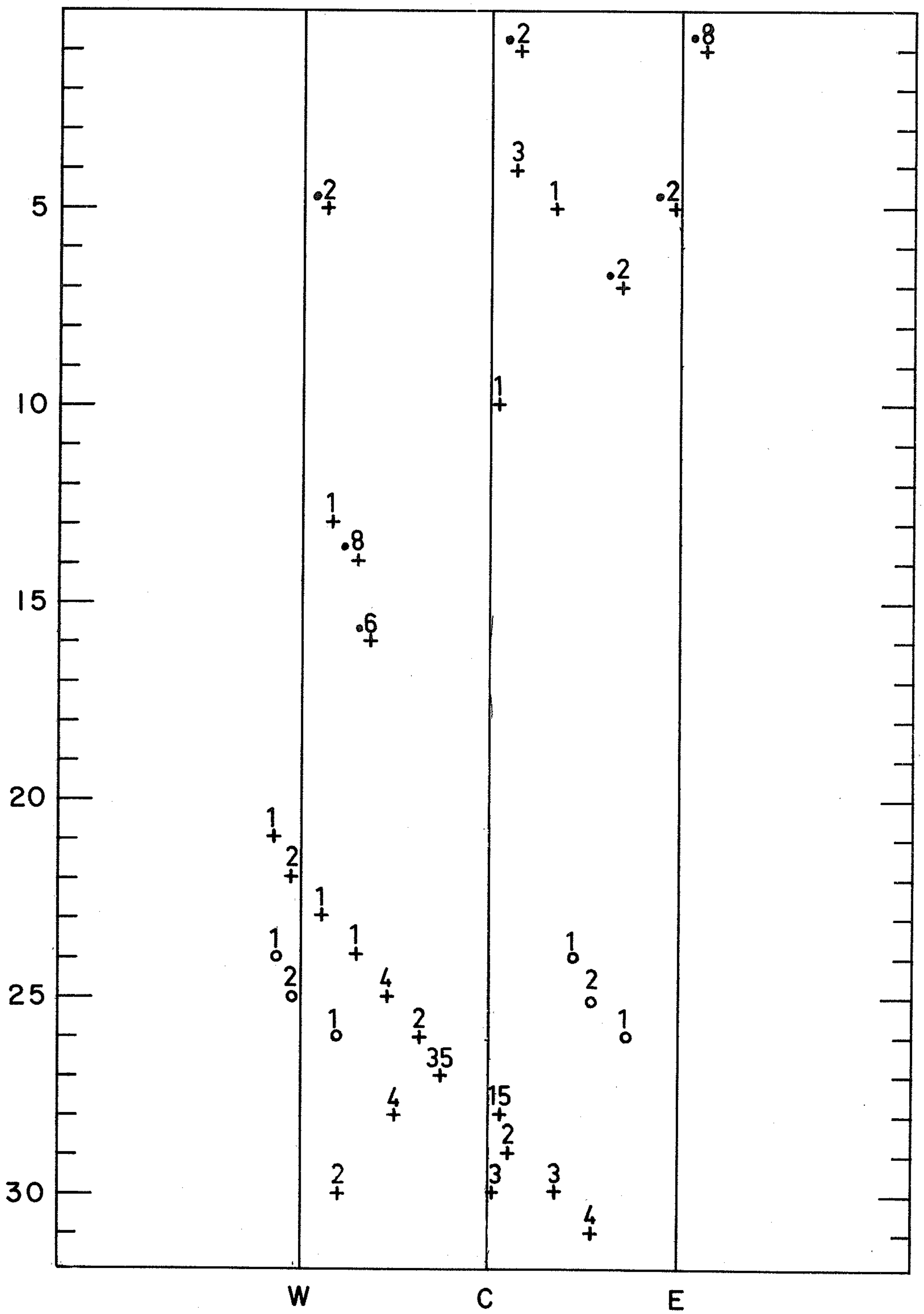
University of Colorado 7.6-41 Mc/s

Date July 1967	Bursts Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)	Date July 1967	Bursts Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
24	IIIg	1306. 6-1310. 9	2	20-41	26	IIIG	2244. 0-2253. 7	3	10-41
	IIIg	1327. 5-1328. 9	2	20-41		IIIG	2403. 2-2411. 2	3	13-41
	IIIg	1443. 8-1447. 5	3	12-41	27	continuum	b1216. 0-a2600. 0	3	18-41
	III	1530. 1-1531. 1	2	16-41		IIIg	1550. 5-1554. 7	3	9-41
	III	1655. 7-1656. 2	3	12-41		IIIg	1605. 7-1610. 3	3	9-41
	III	1731. 1-1731. 6	3	12-41		IIIg	2008. 6-2014. 0	3	10-41
	III	1744. 4-1745. 0	3	7. 6-41	28	continuum	b1219. 0-a2555	3	12-41
	III	1755. 3-1755. 7	3	7. 6-41		IIIG	1626. 6-1639. 6	3	10-41
	IIIg	1805. 3-1806. 7	3	7. 6-41	29	continuum	1219. 0-a2550. 0	3	9-41
	IIIg	1820. 2-1822. 5	3	12-41		III	2013. 9-2014. 5	3	9-41
	IIIG	1853. 0-1859. 1	3	7. 6-41	30	continuum	b1238. 0-a2546	3	10-41
	IIIg	1920. 8-1927. 1	3	9-41	31	continuum	b1219. 3-a2529. 0	1	20-41
	IIIG	2048. 7-2058. 0	3	7. 6-41		IIIG	1224. 7-1230. 0	3	16-41
	III	2330. 1-2330. 6	3	12-41		IIIg	1503. 1-1505. 1	2	16-41
	III	2429. 3-2430. 4	3	20-41		IIIg	1543. 4-1546. 3	3	12-41
	III	2439. 4-2440. 0	3	16-41		III	1755. 9-1756. 5	2	12-41
	IIIg	2527. 3-2529. 8	3	20-41		IIIg	1835. 4-1837. 7	3	9-41
25	continuum	b1217. 0-2312. 5	2	20-41		III	1842. 6-1843. 5	3	11-41
	IIIg	1303. 7-1319. 4	3	16-41		III	1918.7 -1919. 4	3	12-41
	III G	1803. 7-1814. 1	3	11-41		IIIG	2047. 6-2101. 3	3	9-41
	IIIg	2114. 6-2117. 6	3	24-41		IIIG	2109. 8-2115. 5	2	19-41
	IIIG	2251. 5-2300. 9	3	14-41		IIIg	2124. 2-2128. 4	3	12-41
	IIIg	2311. 3-2322. 5	3	13-41		IIIg	2342. 4-2344. 2	3	15-41
	IV	2312. 5-a2615	3	22-41		IIIG	2512.4-2523. 9	2	20-41
	III	2316. 3-2322. 4	3	12-41					
	IIIG	2419. 1-2431. 8	3	20-41					
26	continuum	b1217. 0-1800. 0	2	18-41					
	IIIg	1520. 9-1530. 6	3	12-41					
	III	1619. 1-1619. 7	3	13-41					
	IIIG	1712. 8-1725. 5	3	10-41					
	continuum	1800. 0-1952. 6	3	12-41					
	continuum	1952. 6-a2600. 0	3	12-41					
	IIIG	2104. 6-2108. 8	3	10-41					
	IIIg	2113. 8-2116. 4	3	10-41					
	IIIg	2209. 0-2212. 6	3	10-41					

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

JULY 1967

Nançay 408 Mc/s



No chart is available for Interferometric Measurements at Nancay at 169 Mc/s for July 1967.

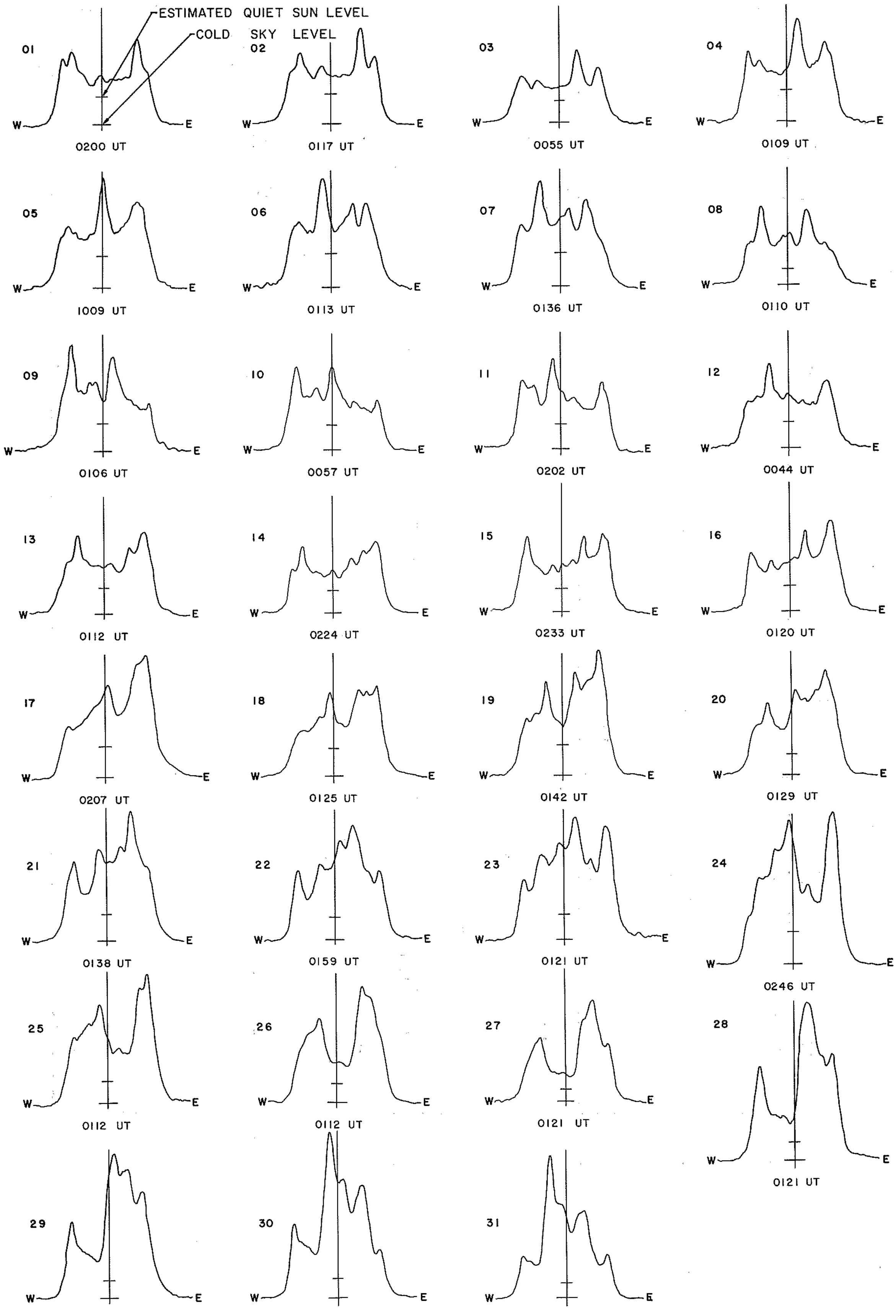
EAST-WEST SOLAR SCANS

A

Fleurs Australia

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

JULY 1967



EAST-WEST SOLAR SCANS

Fleurs Australia

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

JULY 1967

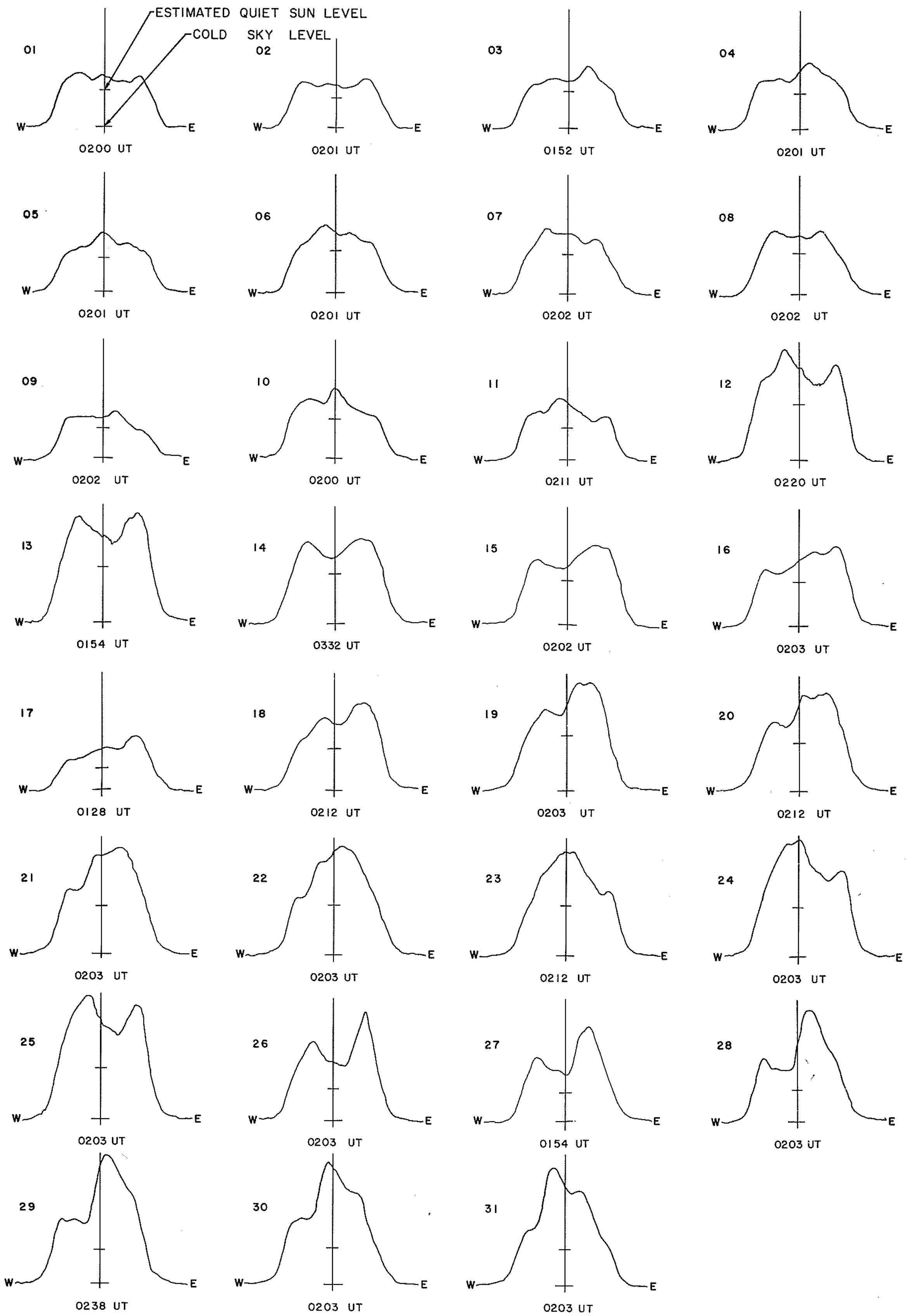
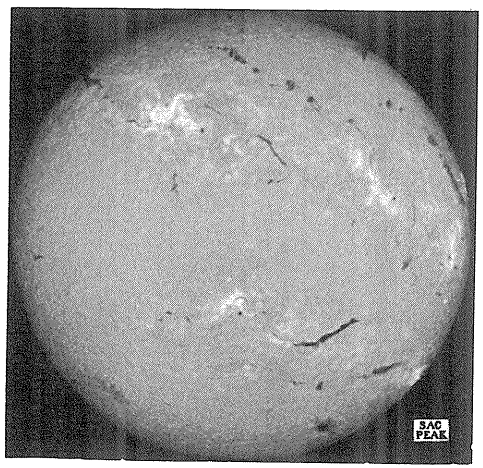


Table of Contents
for June 1967 Data

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

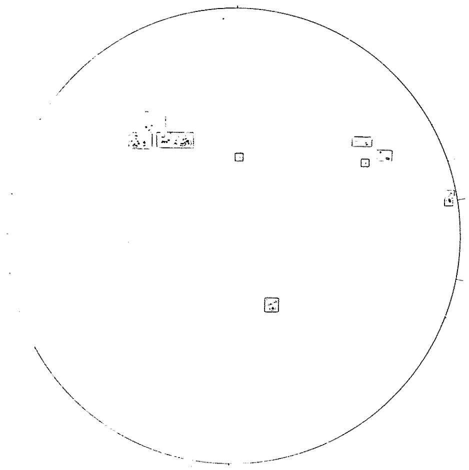
JUNE 1, 1967 (P=-15.72, B₀=-0.69, L₀=141.37)

SACRAMENTO PEAK Hα



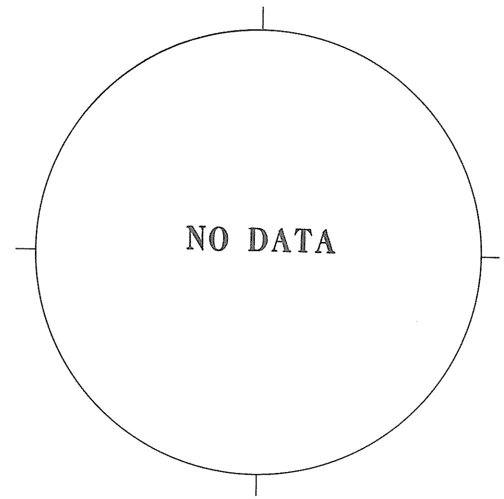
1358 UT

ESSA-BOULDER SUNSPOTS



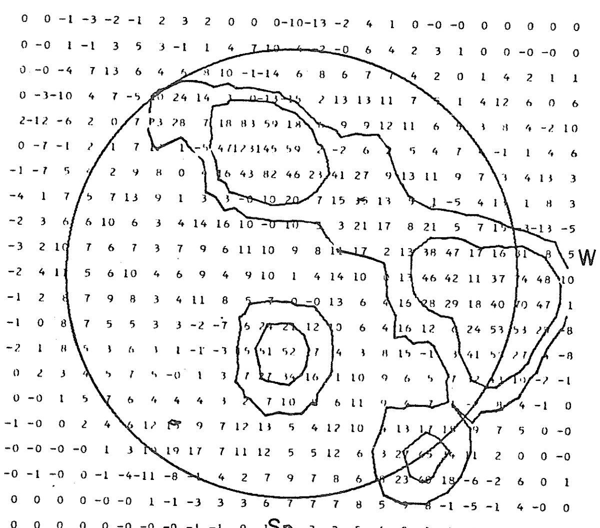
2350 UT

MT. WILSON MAGNETOGRAM
Solid-Plus
Dotted-Minus



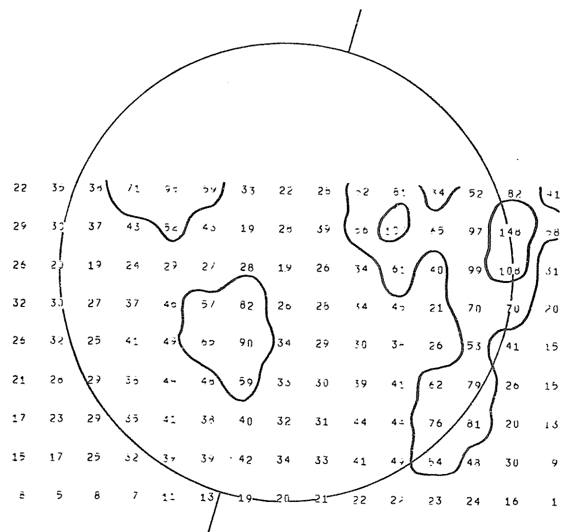
Levels
±5
±10
±20
±40
±80

STANFORD 9.1 cm.



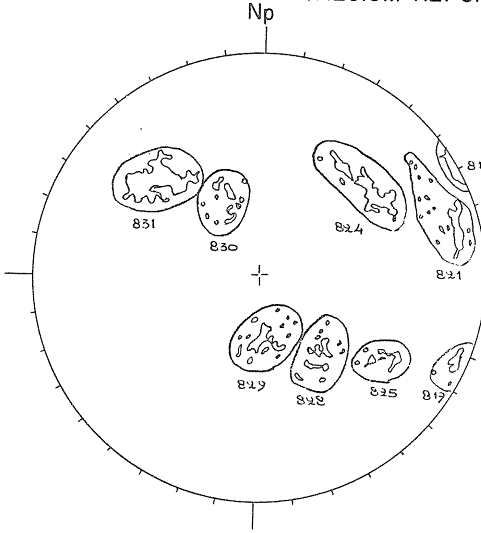
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT

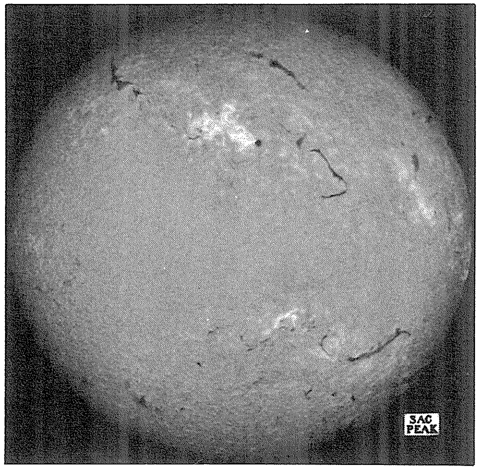


18-27-3.0
19-17-3.5
21 43 2.5
24-38-3.0
29 19 3.5
30-11-2.5
31-61-3.0

1300 UT

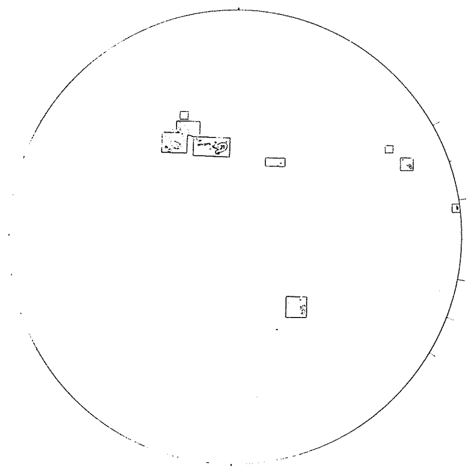
JUNE 2, 1967 (P=-15.35, B₀=-0.57, L₀=128.14)

SACRAMENTO PEAK Hα



1905 UT

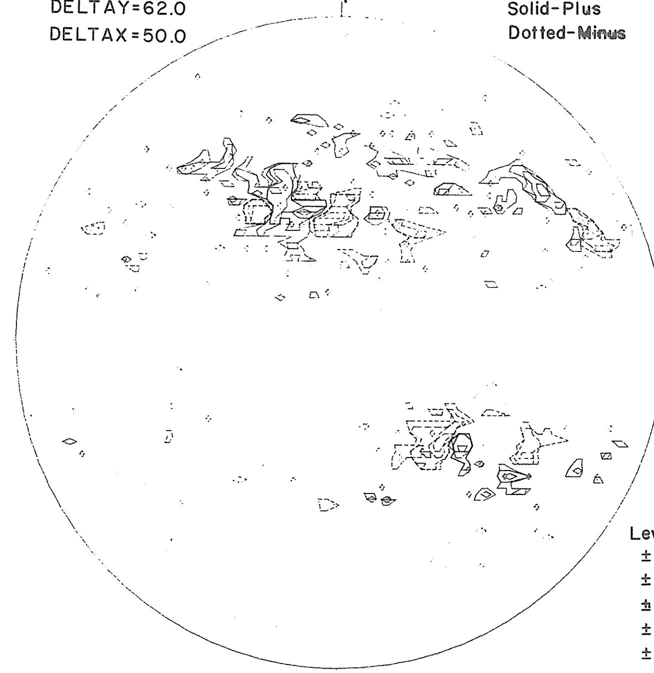
ESSA-BOULDER SUNSPOTS



1645 UT

MT. WILSON
DELTAY=62.0
DELTAX=50.0

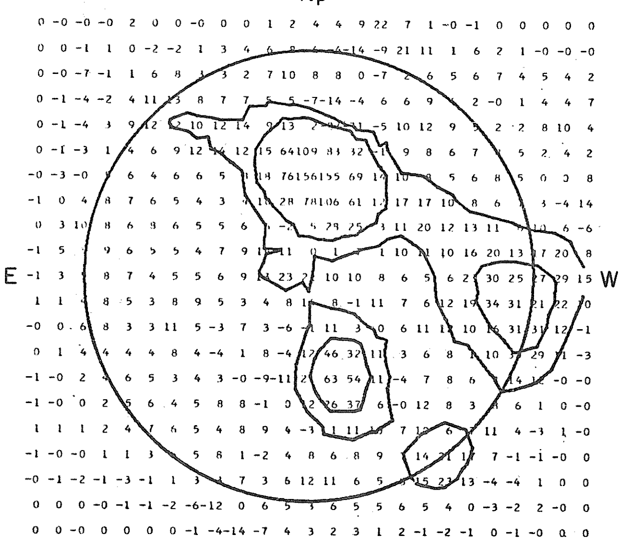
MAGNETOGRAM
Solid-Plus
Dotted-Minus



Levels
±5
±10
±20
±40
±80

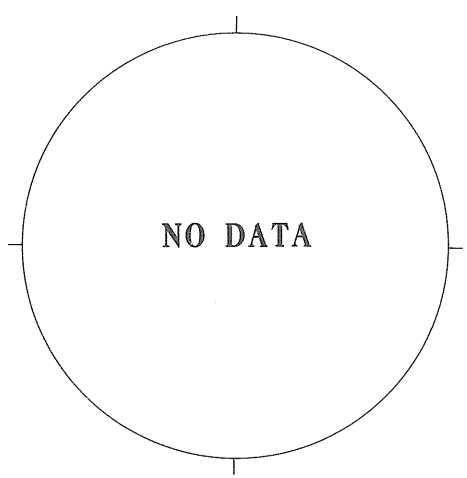
22.40-23.84 UT

STANFORD 9.1 cm.



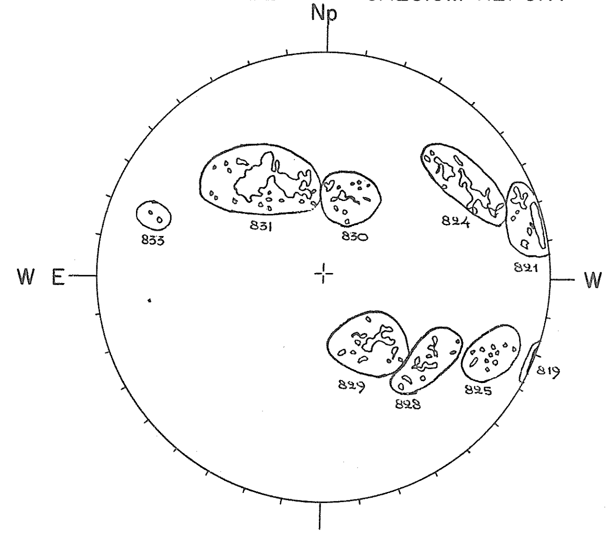
20-21 UT
Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT

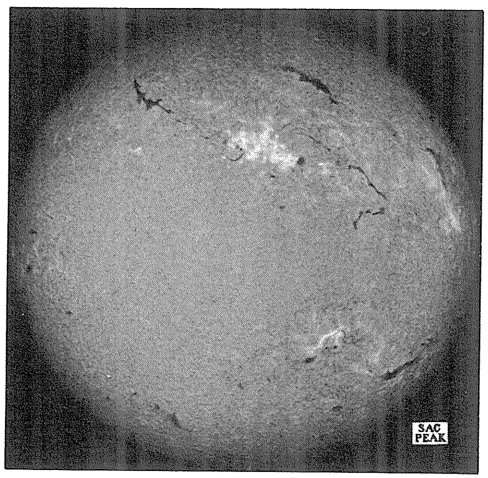


21-45-2.5
24-35-2.5
29-15-3.5
30-09-3.0
31-61-3.0
33-02-2.0

1300 UT

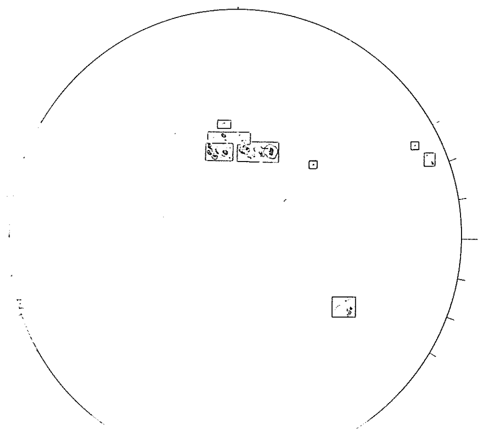
JUNE 3, 1967 (P=-14.97, B₀=-0.45, L₀=114.90)

SACRAMENTO PEAK Hα



1526 UT

ESSA-BOULDER SUNSPOTS

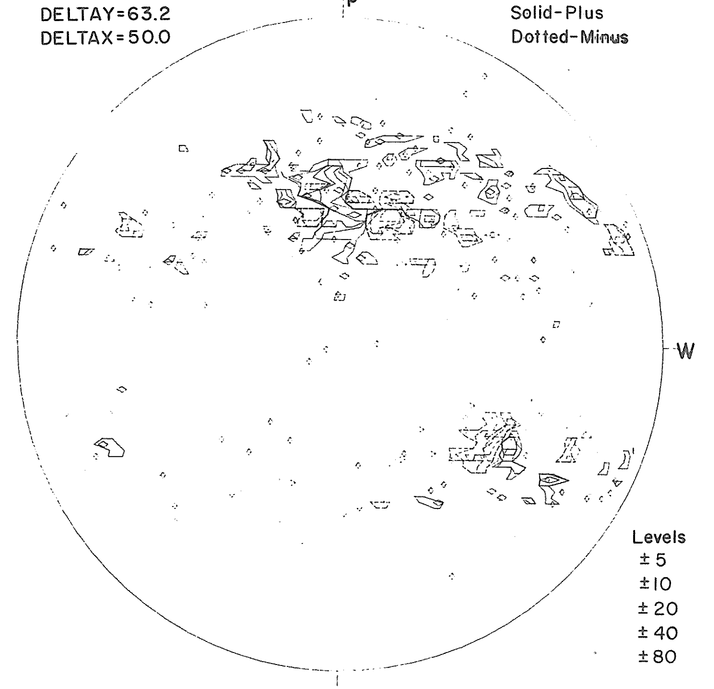


1420 UT

MT. WILSON MAGNETOGRAM

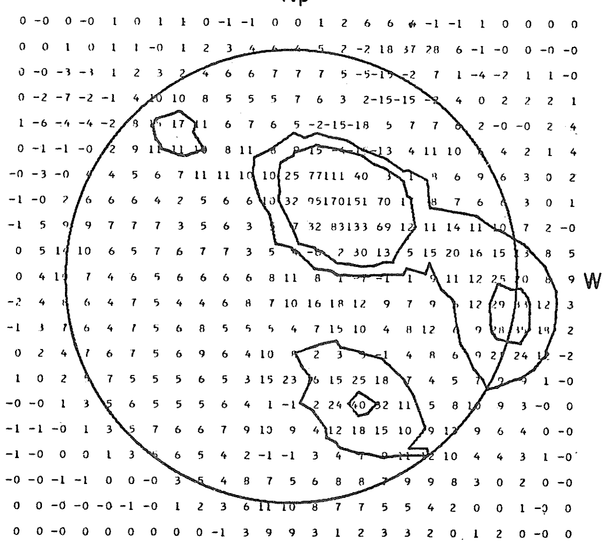
DELTAY=63.2
DELTAX=50.0

Solid-Plus
Dotted-Minus



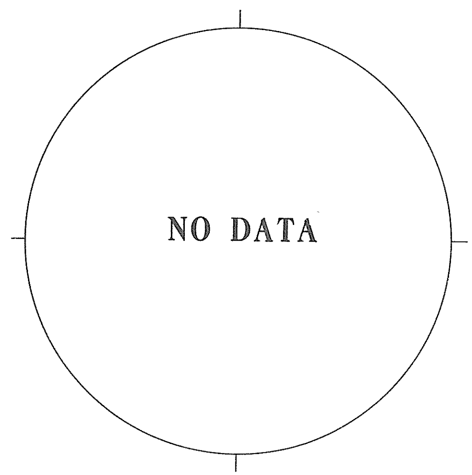
17.44-18.86 UT

STANFORD 9.1 cm.



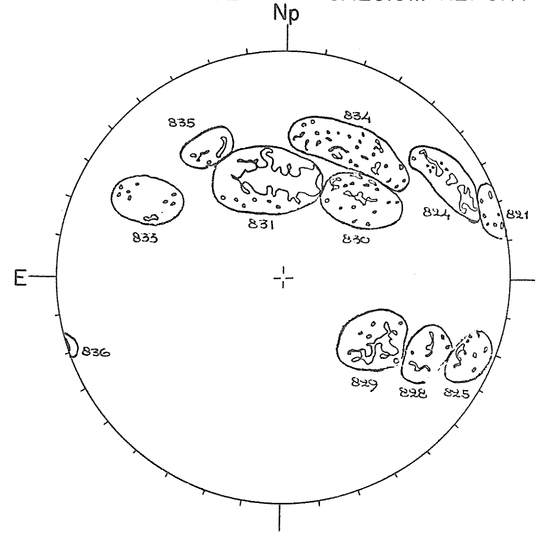
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT

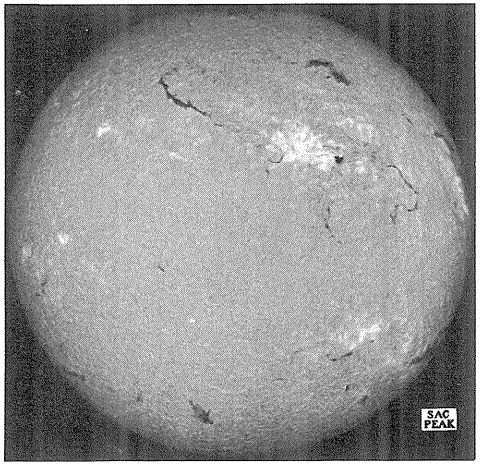


21-09-2.5
24-26-3.0
28-10-2.5
29-21-3.5
30-12-2.5
31-68-3.0

1340 UT

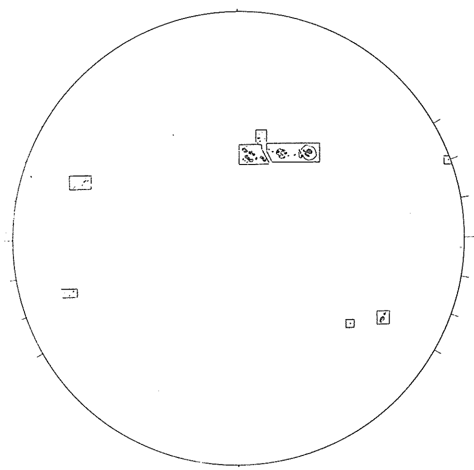
JUNE 4, 1967 (P=-14.59, B₀=-0.33, L₀=101.67)

SACRAMENTO PEAK Hα



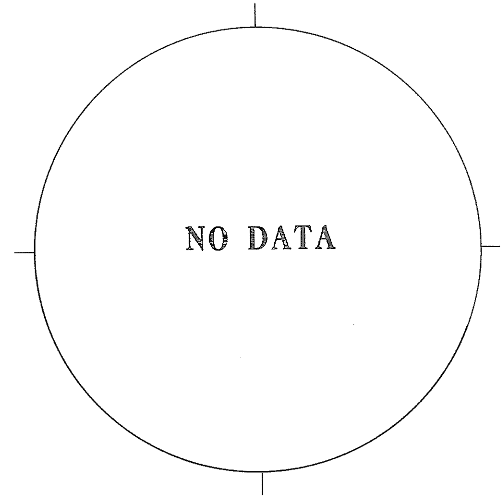
1521 UT

ESSA-BOULDER SUNSPOTS

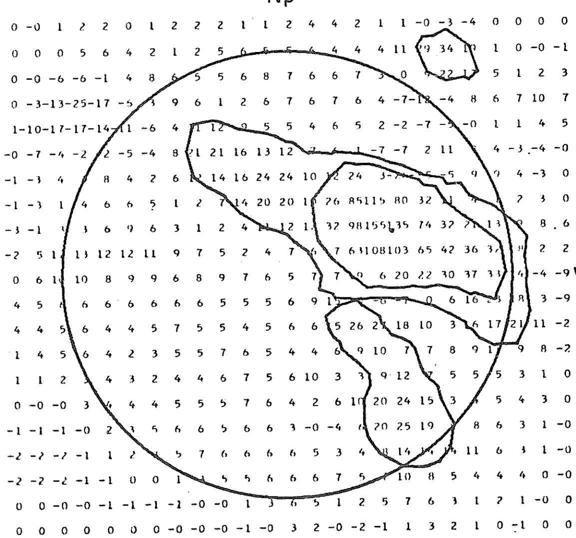


1430 UT

MT. WILSON MAGNETOGRAM
Solid-Plus
Dotted-Minus

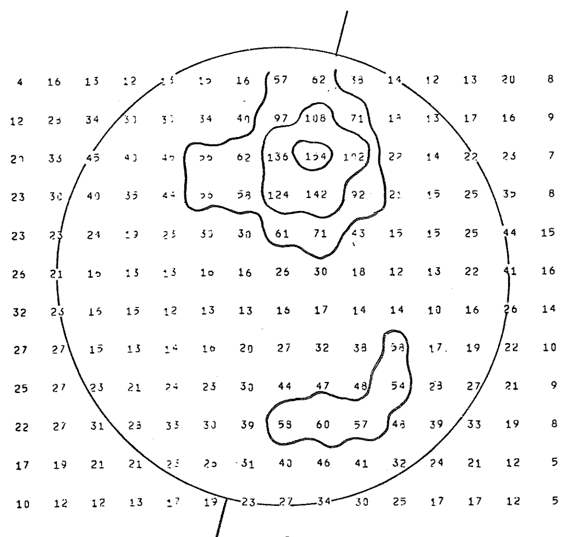


STANFORD 9.1 cm.



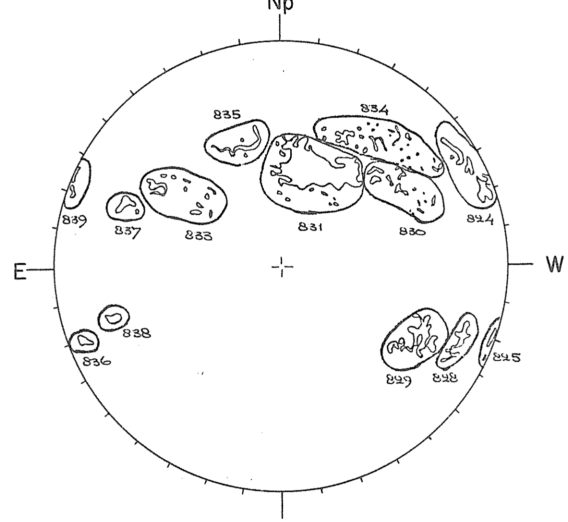
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT



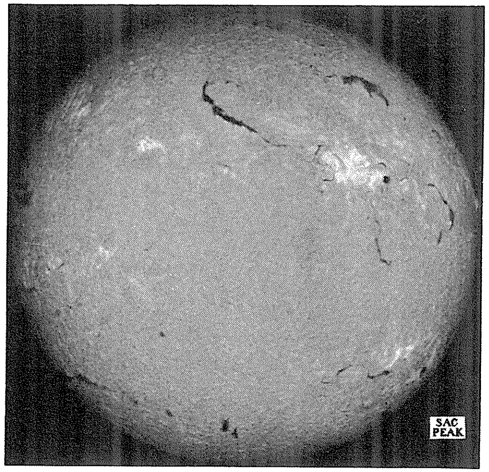
1220 UT

JUNE 5, 1967 (P=-14.20, B_o=-0.21, L_o=88.43)

SACRAMENTO PEAK Hα

N

E



W

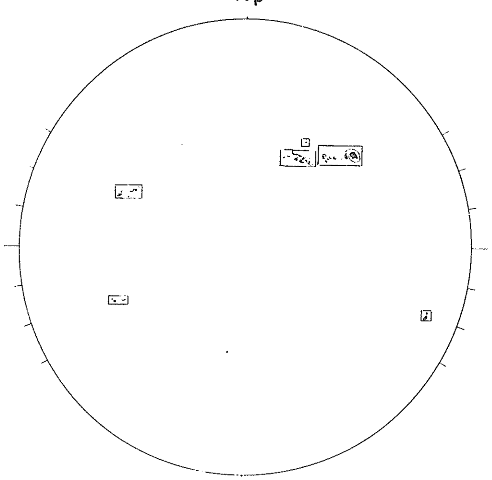
S

1437 UT

ESSA-BOULDER SUNSPOTS

Np

E



W

Sp

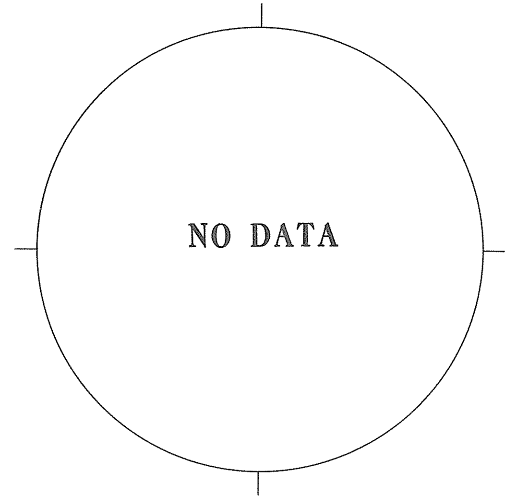
1500 UT

MT. WILSON MAGNETOGRAM

Solid-Plus
Dotted-Minus

Np

E



W

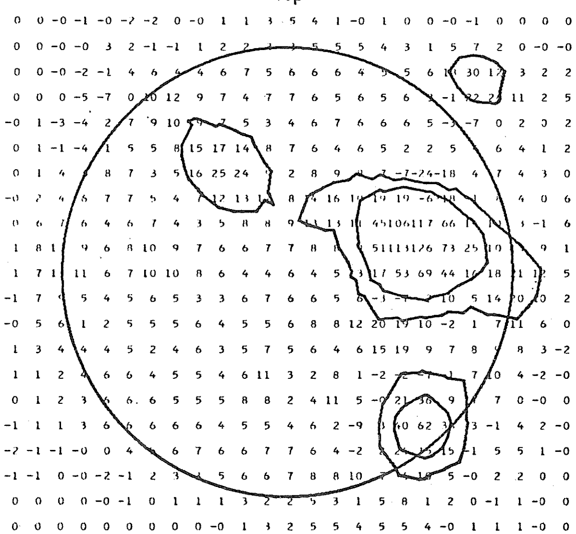
Levels
±5
±10
±20
±40
±80

Sp

STANFORD 9.1 cm.

Np

E



W

Sp

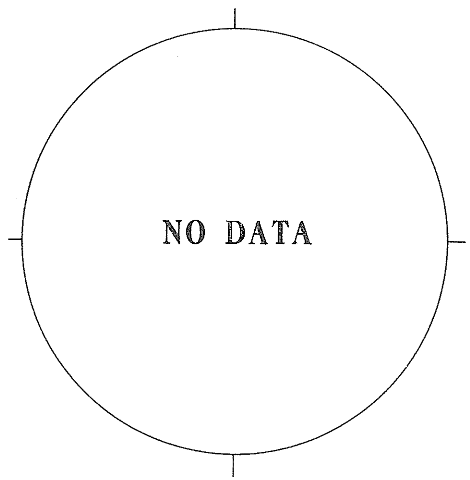
20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E



W

S

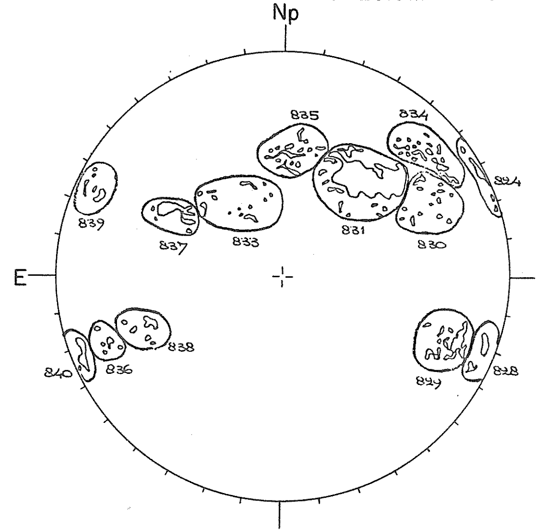
Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

Np

E



W

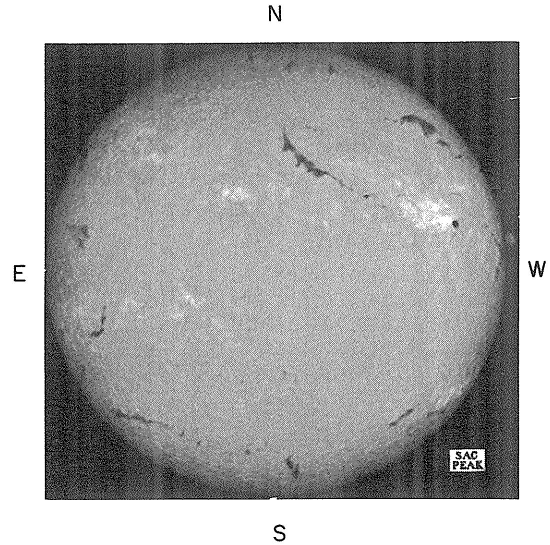
Sp

1235 UT

24-40-2.0
28-15-2.5
29-22-3.5
30-12-2.5
31-90-3.5
37-12-3.0
38-07-2.5

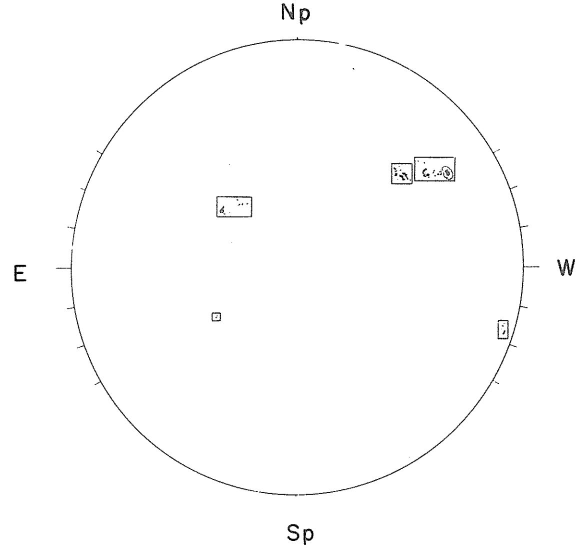
JUNE 6, 1967 (P=-13.81, B_o=-0.09, L_o=75.20)

SACRAMENTO PEAK Hα



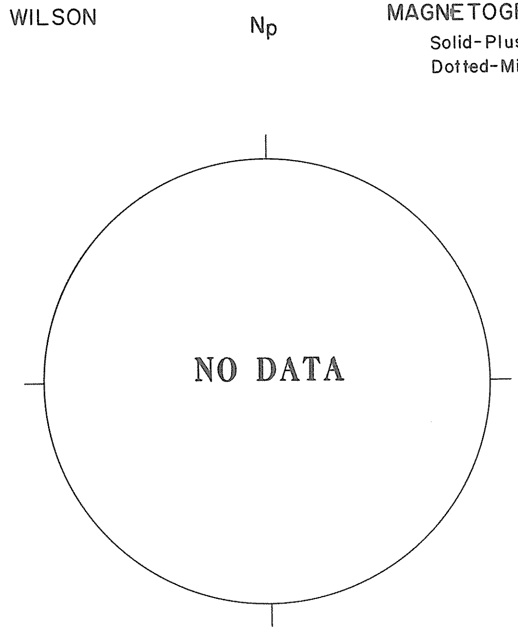
1815 UT

ESSA-BOULDER SUNSPOTS



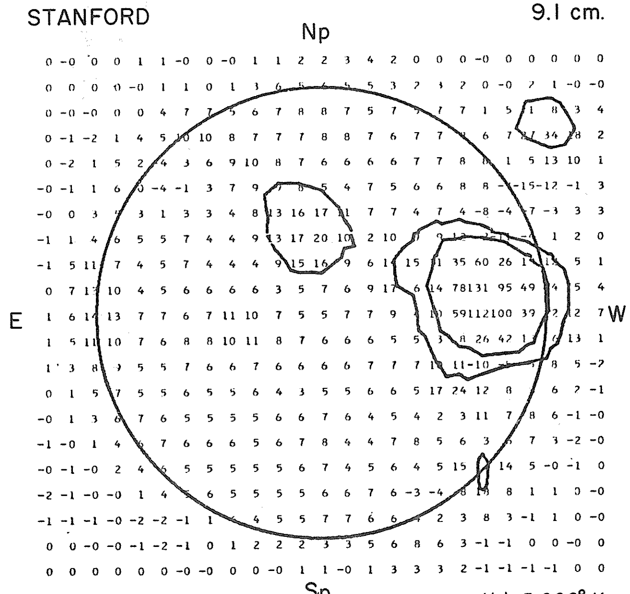
1325 UT

MT. WILSON MAGNETOGRAM
Solid-Plus
Dotted-Minus



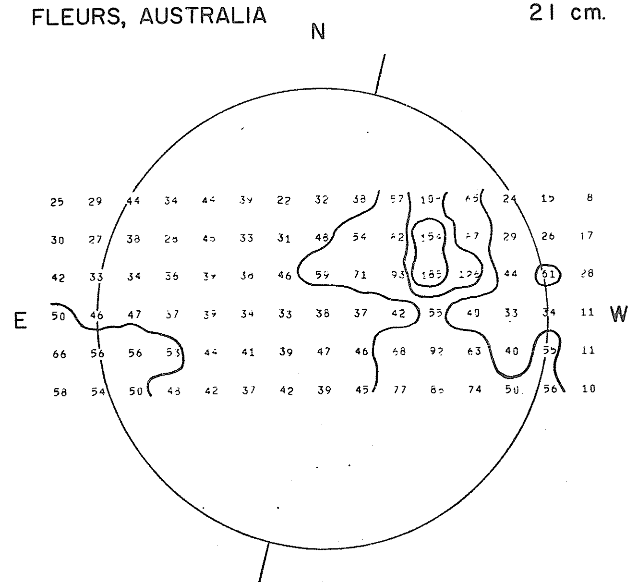
Levels
±5
±10
±20
±40
±80

STANFORD 9.1 cm.



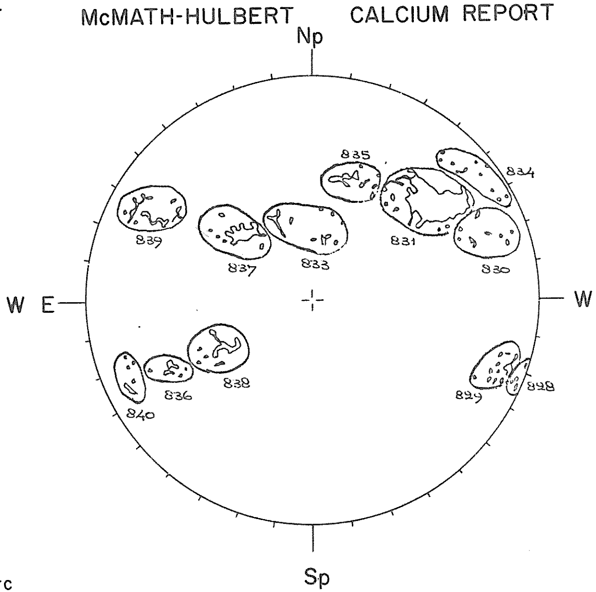
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT



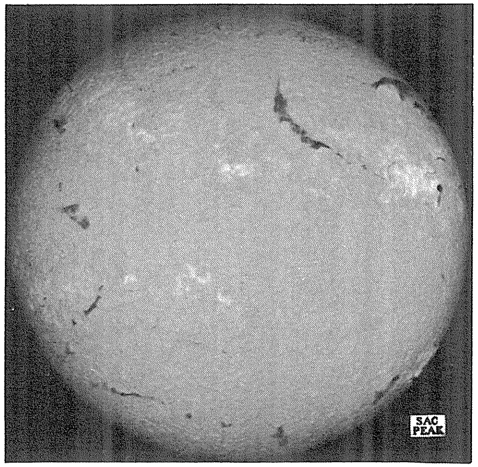
1405 UT

29-19-2.5
31-92-3.5
37-14-2.5
38-11-3.0

JUNE 7, 1967 (P=-13.42, B₀=0.03, L₀=61.97)

SACRAMENTO PEAK Hα

N

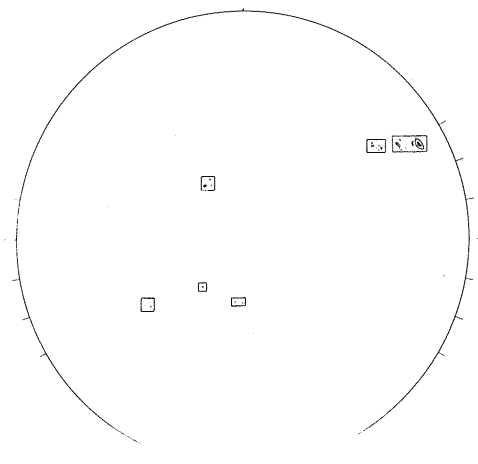
E  W

S

1429 UT

ESSA-BOULDER SUNSPOTS

Np

E  W

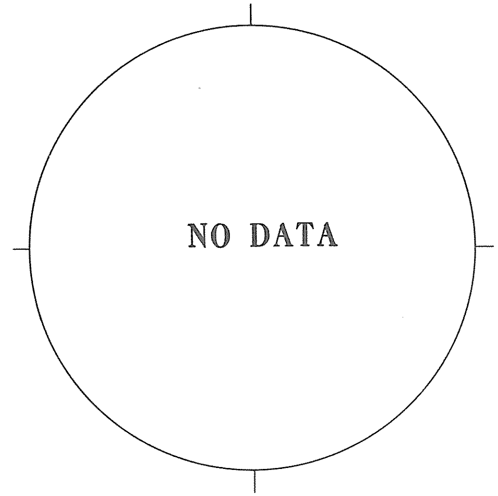
Sp

1400 UT

MT. WILSON MAGNETOGRAM

Solid-Plus
Dotted-Minus

Np

E  W

Sp

Levels
±5
±10
±20
±40
±80

STANFORD 9.1 cm.

Np

E / W

0	0	-1	0	0	-0	-0	-0	-0	-0	1	1	1	1	0	0	1	0	0	-0	-0	0	0	0	0
0	-0	-1	1	0	-1	2	2	1	3	4	4	4	4	4	4	5	1	0	2	0	0	1	0	-1
0	-0	-1	0	-0	3	8	9	6	4	5	7	7	7	7	4	5	2	2	5	-1	-0	5	7	4
0	-0	-1	2	6	12	13	13	9	7	7	7	7	8	8	5	5	7	6	6	3	1	14	23	13
0	-1	1	4	13	13	7	3	4	8	8	7	6	6	7	6	5	8	8	6	7	2	2	9	8
-0	-2	-0	5	12	7	-1	-1	2	7	8	8	8	6	4	6	6	7	6	5	9	-2	-10	-11	-3
-0	-1	1	6	10	6	-1	-0	0	1	7	8	8	8	6	7	8	4	6	8	7	5	-1	-2	2
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0	4	10	11	7	4	6	6	5	5	4	6	9	8	8	6	18	16	-1	18	71	72	43	13	7
1	5	10	12	9	4	5	7	7	7	6	5	5	6	7	13	9	2	21	58	89	94	50	16	9
1	4	9	10	8	5	6	9	8	8	9	10	8	6	7	6	6	6	9	28	43	18	9	2	1
1	2	8	9	6	4	5	7	6	7	10	10	8	6	6	7	6	5	7	10	13	15	5	0	-1
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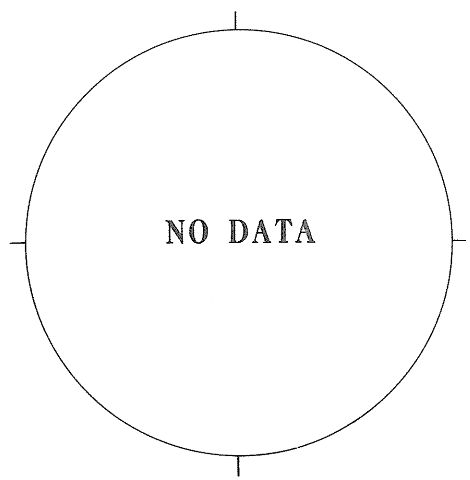
-0	-0	1	3	6	6	7	6	5	6	4	5	6	5	4	6	7	5	3	2	4	4	1	-0	0
-0	1	0	0	3	5	6	6	6	7	6	6	6	6	5	7	6	4	12	14	11	4	1	1	-0
-1	-0	-1	-1	1	4	6	6	6	6	6	5	5	6	6	8	7	6	14	21	11	2	-1	1	-0
0	-0	-1	-1	-0	0	0	2	3	5	5	6	5	6	7	7	8	4	3	12	6	0	-0	0	0
-0	-0	-0	-0	-0	-1	-1	0	1	2	3	4	4	4	6	6	5	6	4	-1	1	-0	-0	-0	0
0	0	0	0	0	0	-0	-0	0	0	0	1	1	1	1	0	1	2	3	3	-0	-0	-0	0	0

Sp

20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

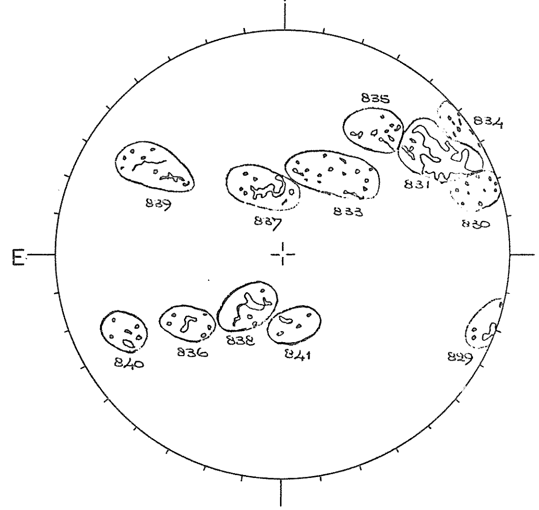
E  W

S Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

Np

E  W

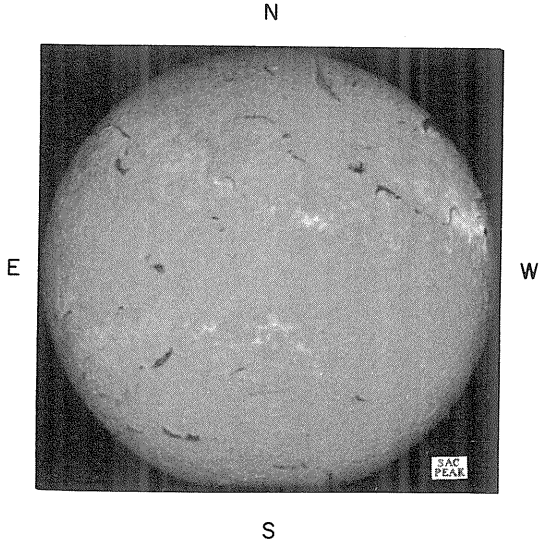
Sp

1720 UT

31-89-3.0
36-07-2.5
37-14-2.5

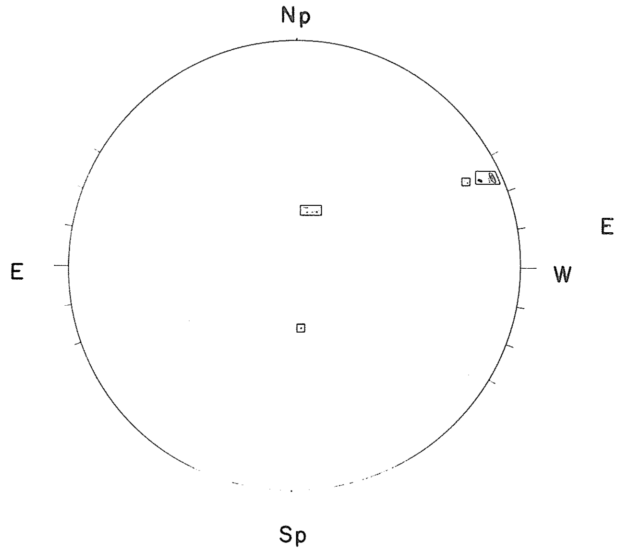
JUNE 8, 1967 (P=-13.02, B₀=0.15, L₀=48.73)

SACRAMENTO PEAK Hα



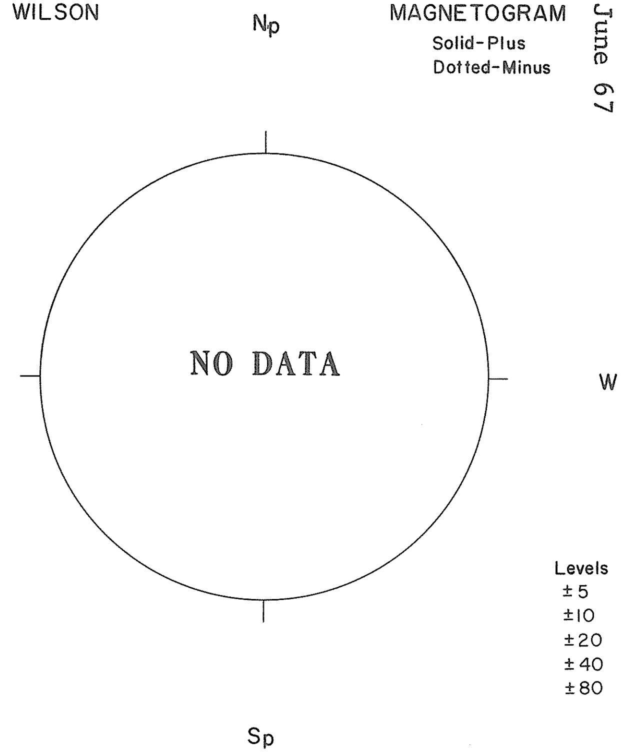
1406 UT

ESSA-BOULDER SUNSPOTS

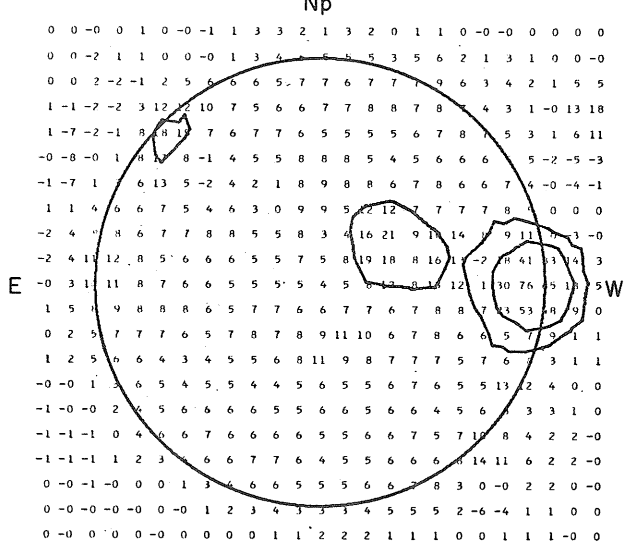


1340 UT

MT. WILSON MAGNETOGRAM
Solid-Plus
Dotted-Minus

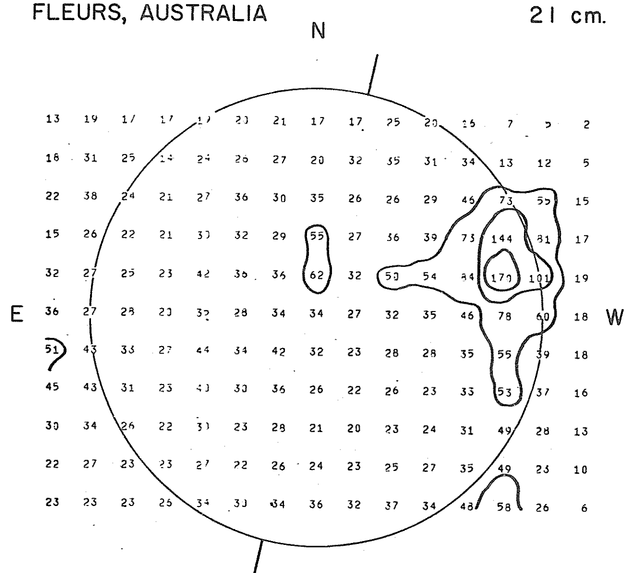


STANFORD 9.1 cm.



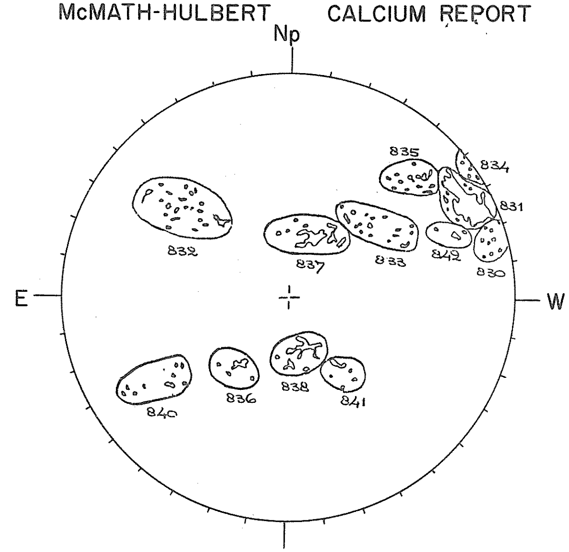
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT



31-08-3.0
37-18-3.0
39-12-2.5
42-04-2.5

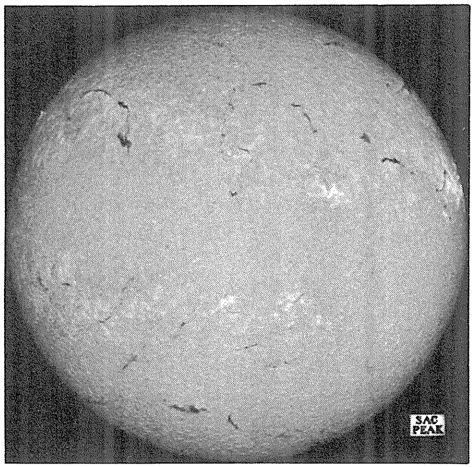
1500 UT

JUNE 9, 1967 (P=-12.61, B₀=0.28, L₀=35.50)

SACRAMENTO PEAK Hα

N

E



W

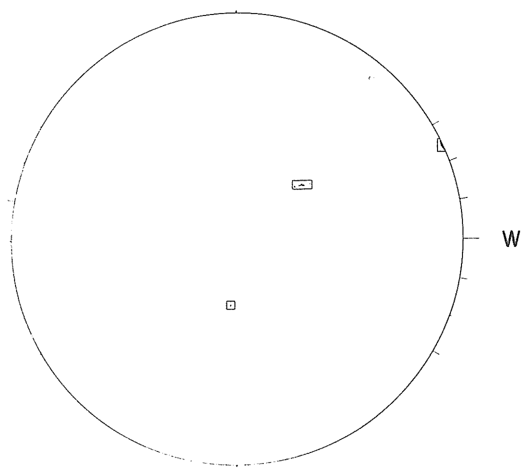
S

1420 UT

ESSA-BOULDER SUNSPOTS

Np

E



W

Sp

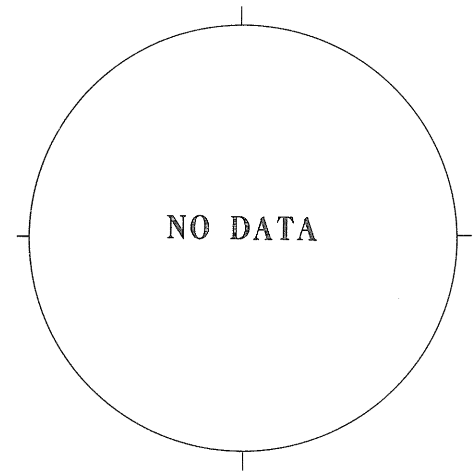
1330 UT

MT. WILSON MAGNETOGRAM

Solid-Plus
Dotted-Minus

Np

E



W

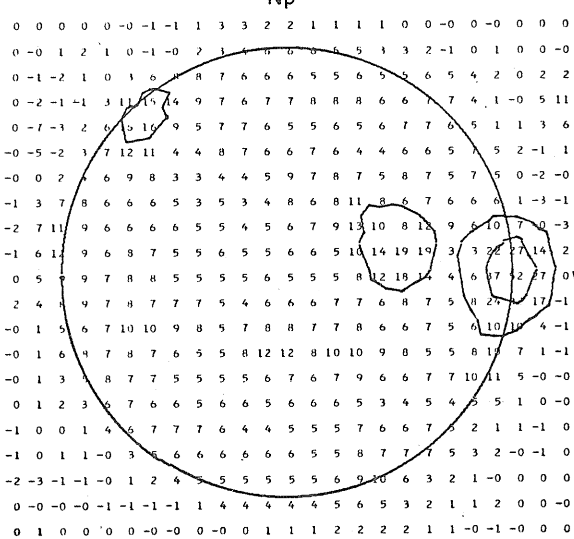
Sp

Levels
±5
±10
±20
±40
±80

STANFORD 9.1 cm.

Np

E



W

Sp

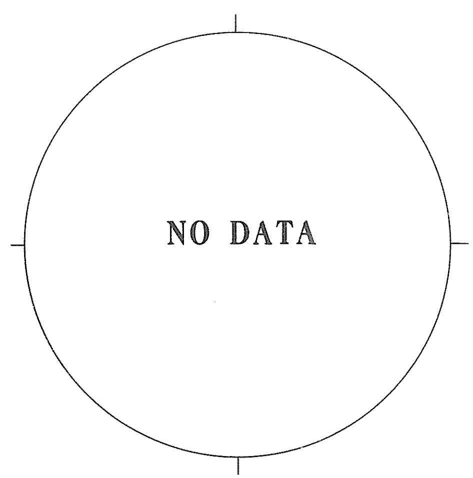
20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E



W

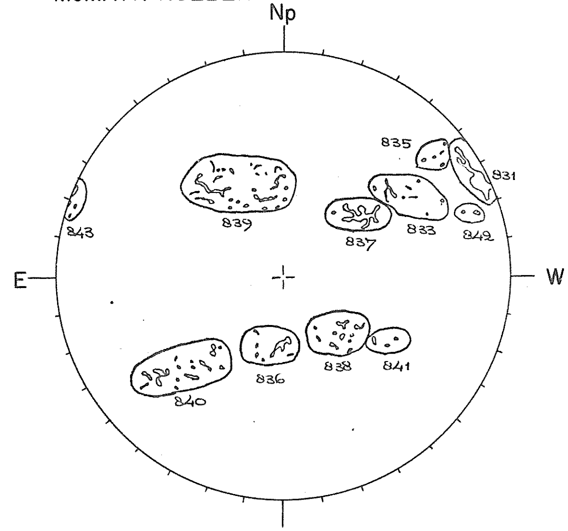
S

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

McMATH-HULBERT CALCIUM REPORT

Np

E



W

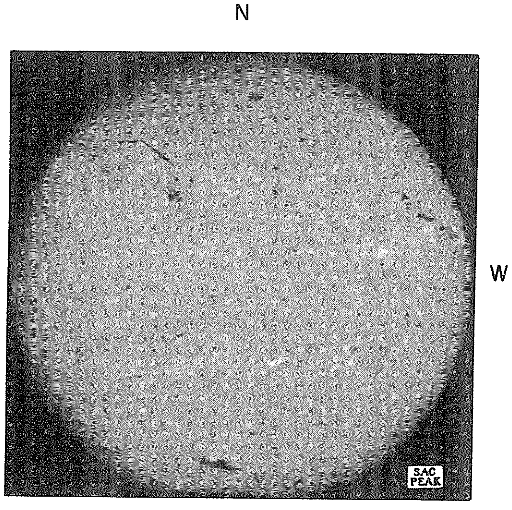
Sp

1315 UT

31-76-3.0
36-09-2.5
37-16-3.5
38-09-2.5
41-02-2.5
42-02-2.5

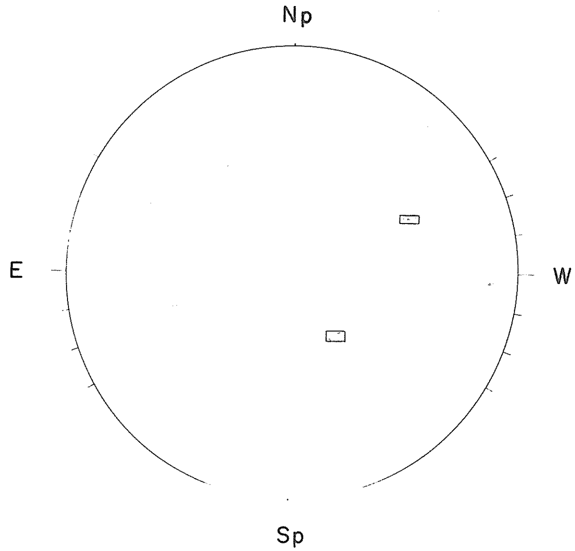
JUNE 10, 1967 (P=-12.20, B₀=0.40, L₀=22.26)

SACRAMENTO PEAK Hα



1348 UT

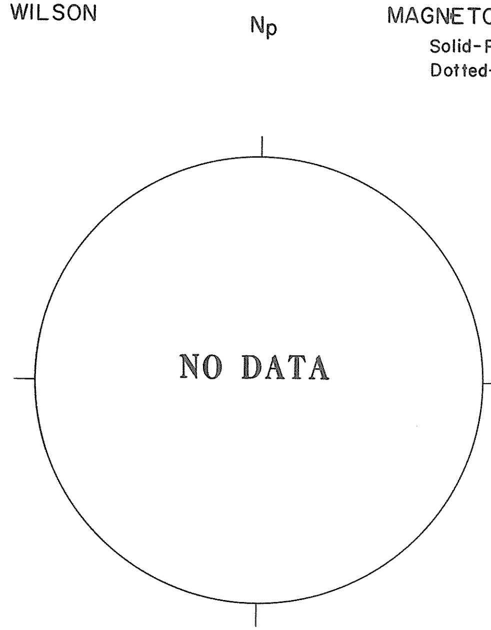
ESSA-BOULDER SUNSPOTS



1305 UT

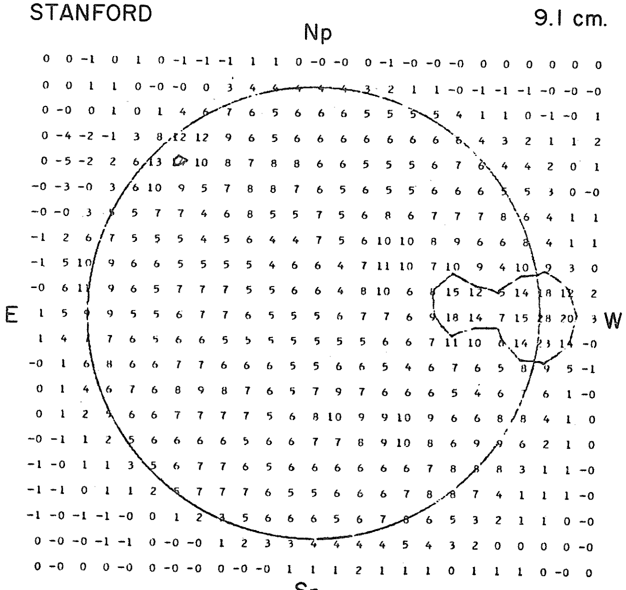
MT. WILSON MAGNETOGRAM

Solid-Plus
Dotted-Minus



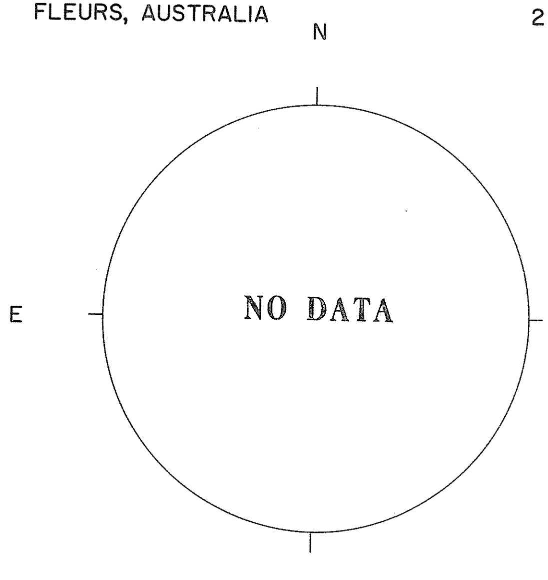
Levels
±5
±10
±20
±40
±80

STANFORD 9.1 cm.



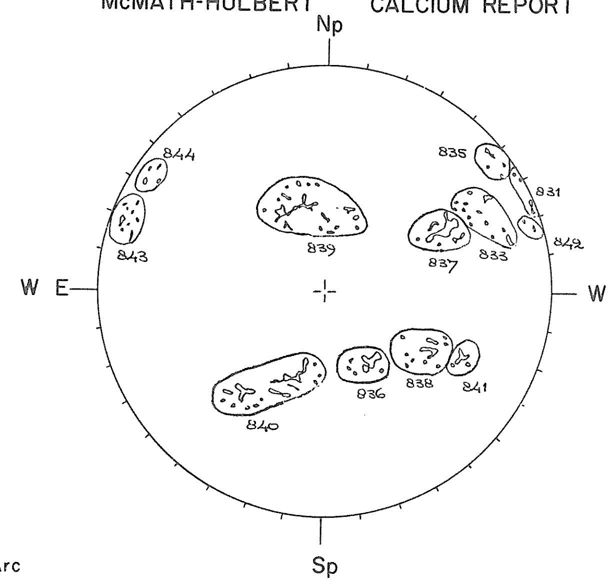
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT



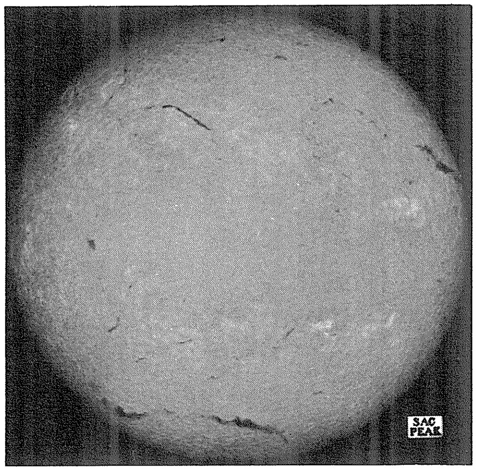
36-09-3.0
37-15-3.0

1350 UT

JUNE 11, 1967 (P=-11.79, B₀=0.52, L₀=9.02)

SACRAMENTO PEAK Hα

N

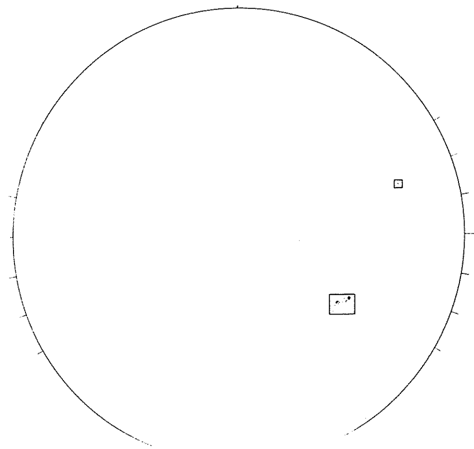
E  W

S

1403 UT

ESSA-BOULDER SUNSPOTS

Np

E  W

Sp

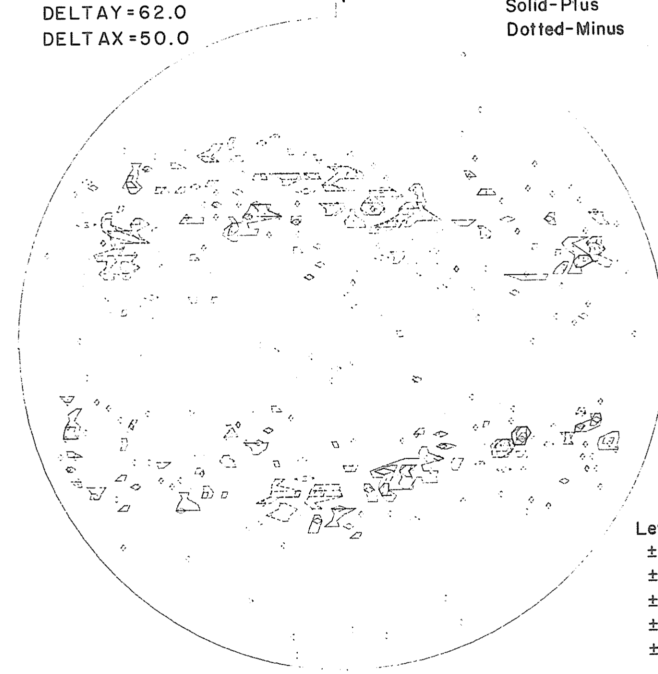
1820 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

Solid-Plus
Dotted-Minus

Np

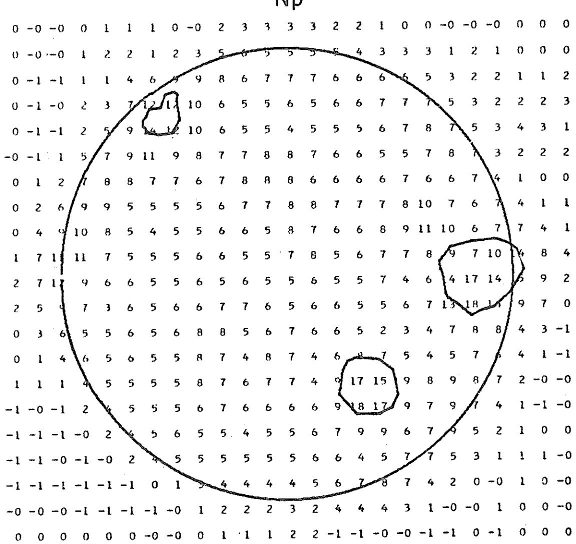
E  W

Levels
±5
±10
±20
±40
±80

22.37-23.85 UT Sp

STANFORD 9.1 cm.

Np

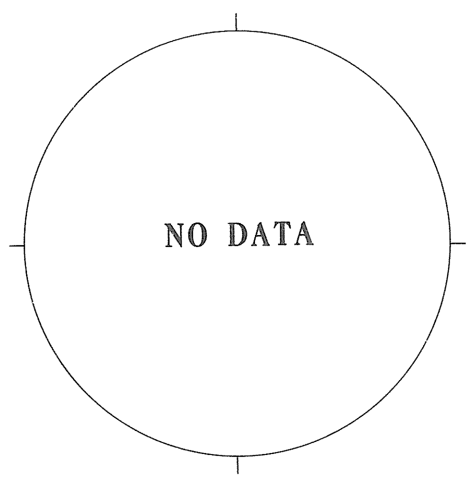
E  W

Sp

20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

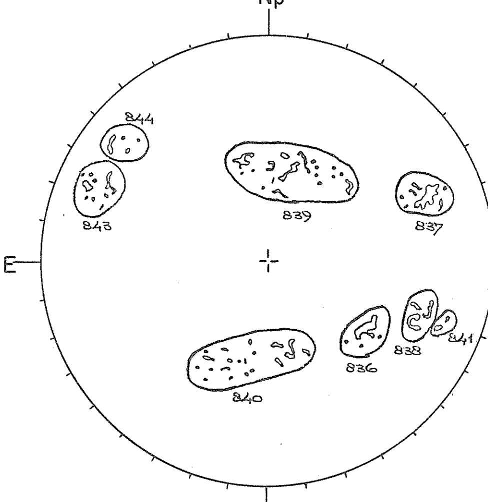
E  W

S Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

Np

E  W

36-10-3.5
37-14-3.0

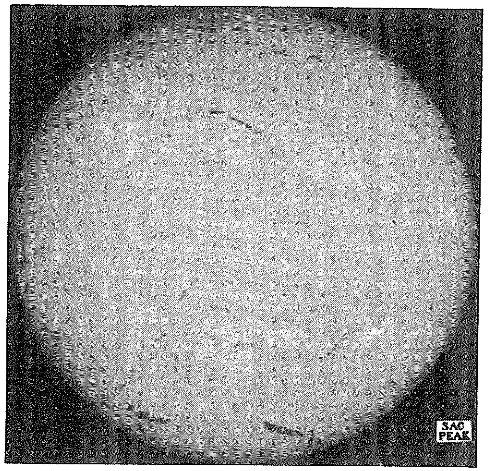
Sp

1430 UT

JUNE 12, 1967 (P=-11.38, B₀=0.64, L₀=355.79)

SACRAMENTO PEAK Hα

N

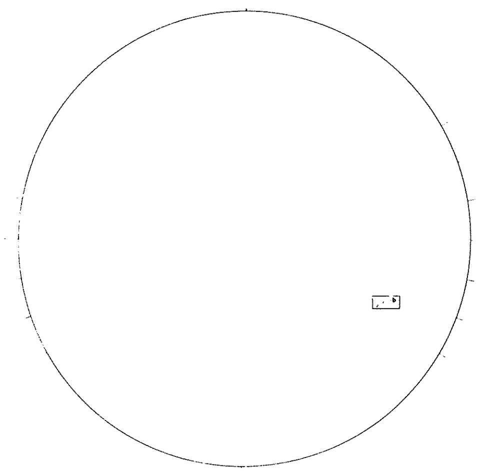
E  W

S

1424 UT

ESSA-BOULDER SUNSPOTS

Np

E  W

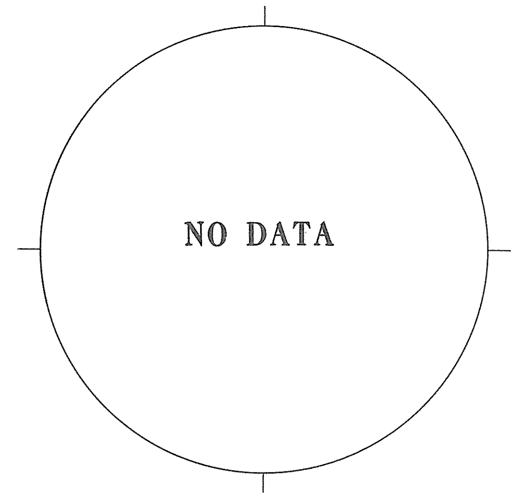
Sp

1345 UT

MT. WILSON MAGNETOGRAM

Solid-Plus
Dotted-Minus

Np

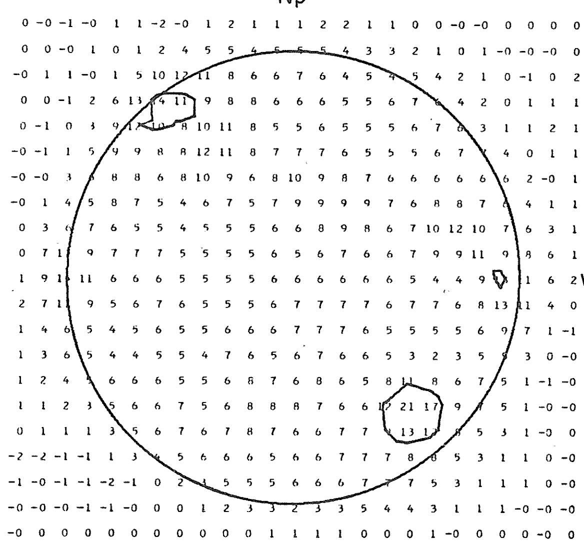
E  W

Sp

Levels
±5
±10
±20
±40
±80

STANFORD 9.1 cm.

Np

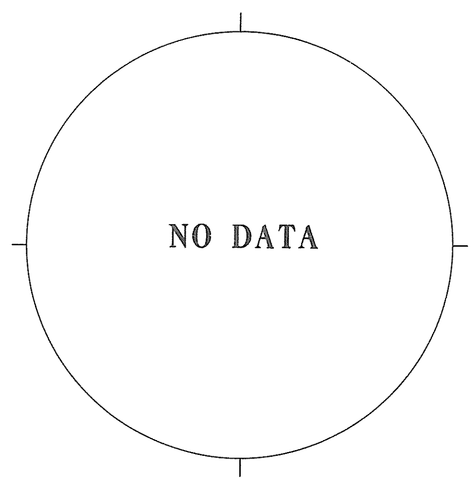
E  W

Sp

20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

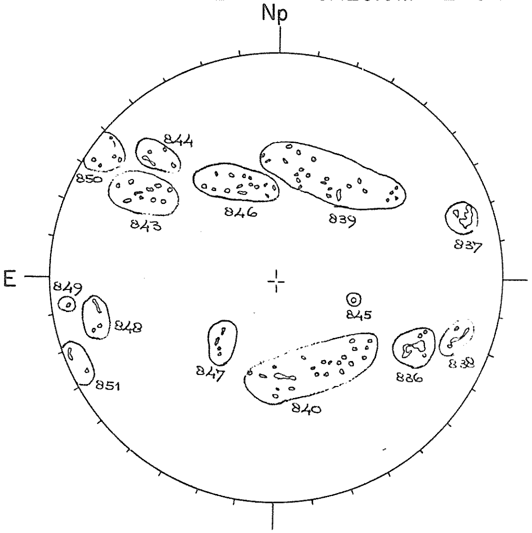
N

W E  W

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

McMATH-HULBERT CALCIUM REPORT

Np

E  W

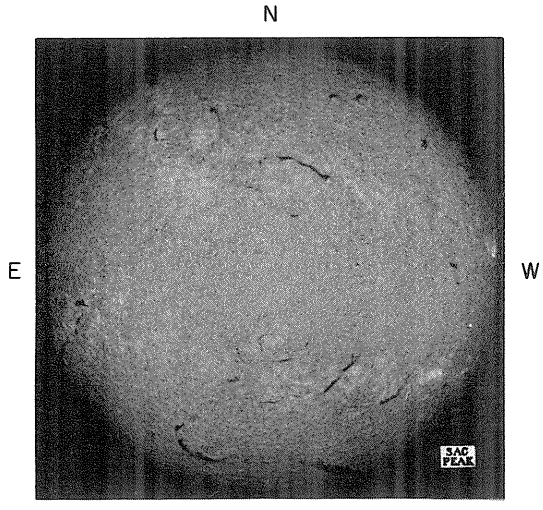
Sp

1315 UT

36-07-3.5
37-07-3.0
39-15-2.5

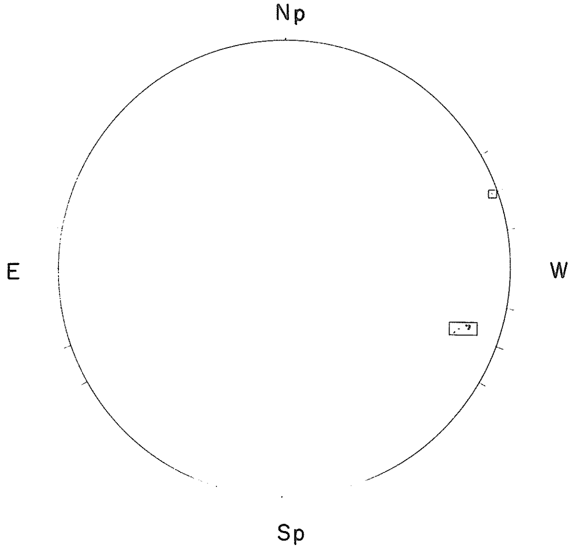
JUNE 13, 1967 (P=-10.96, B₀=0.76, L₀=342.55)

SACRAMENTO PEAK Hα



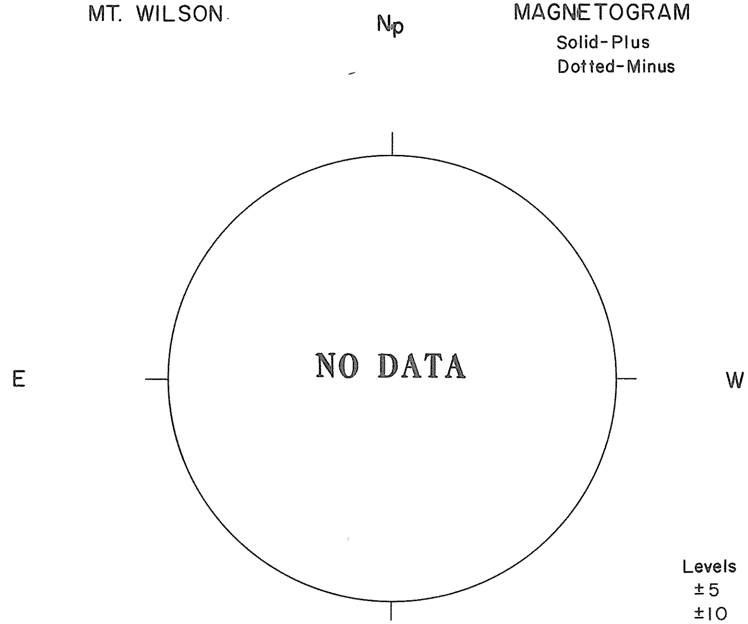
1351 UT

ESSA-BOULDER SUNSPOTS



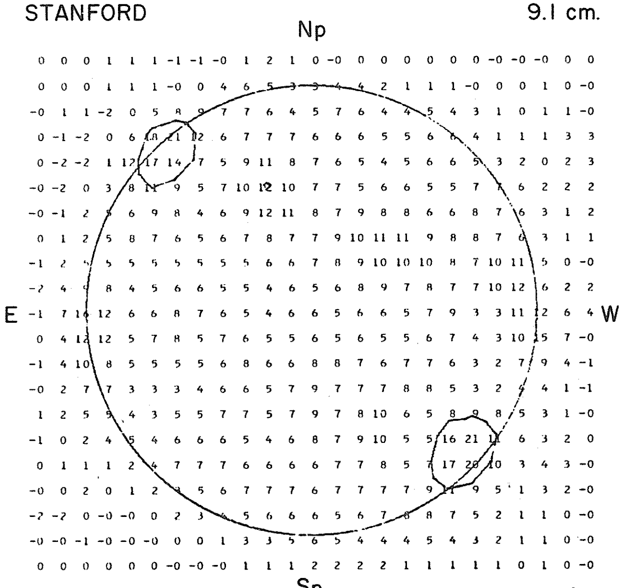
1340 UT

MT. WILSON MAGNETOGRAM
Solid-Plus
Dotted-Minus



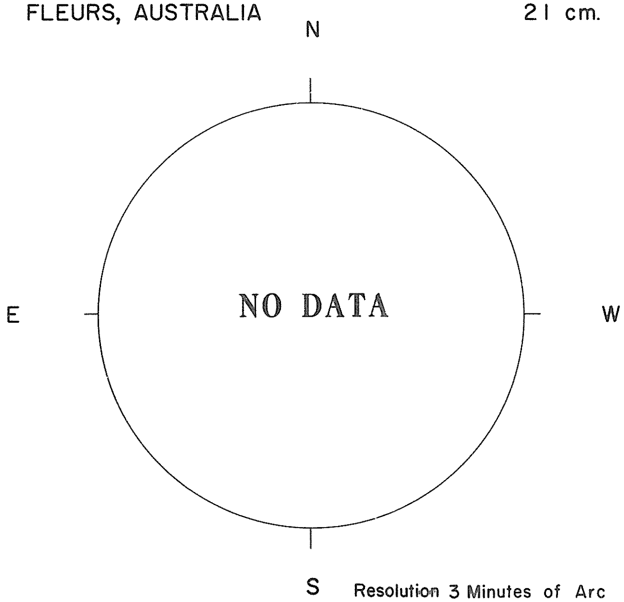
Levels
±5
±10
±20
±40
±80

STANFORD 9.1 cm.



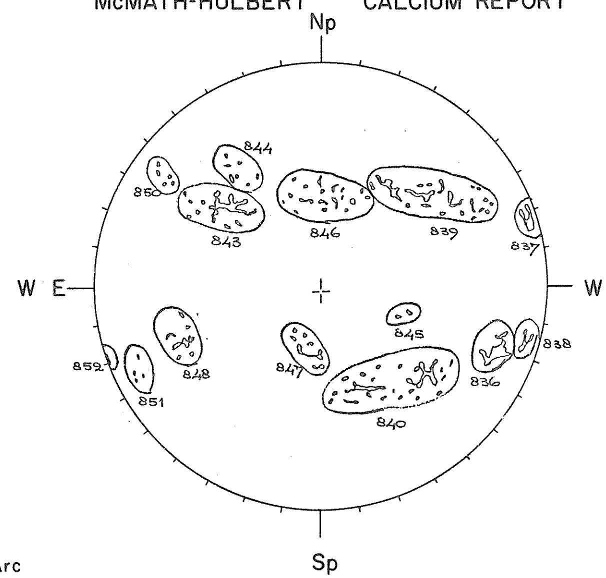
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT

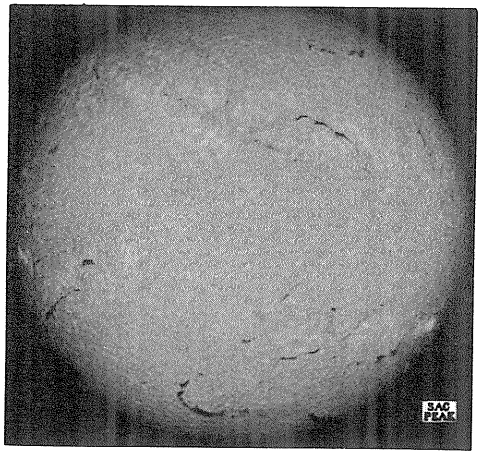


36-16-3.5
37-12-3.5

1510 UT

JUNE 14, 1967 (P=-10.54, B₀=0.88, L₀=329.32)

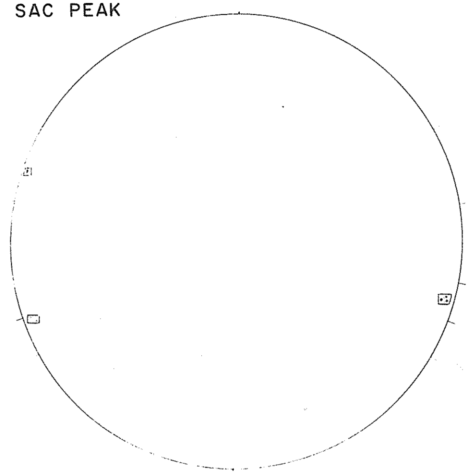
SACRAMENTO PEAK Hα



1420 UT

ESSA-BOULDER SUNSPOTS

SAC PEAK

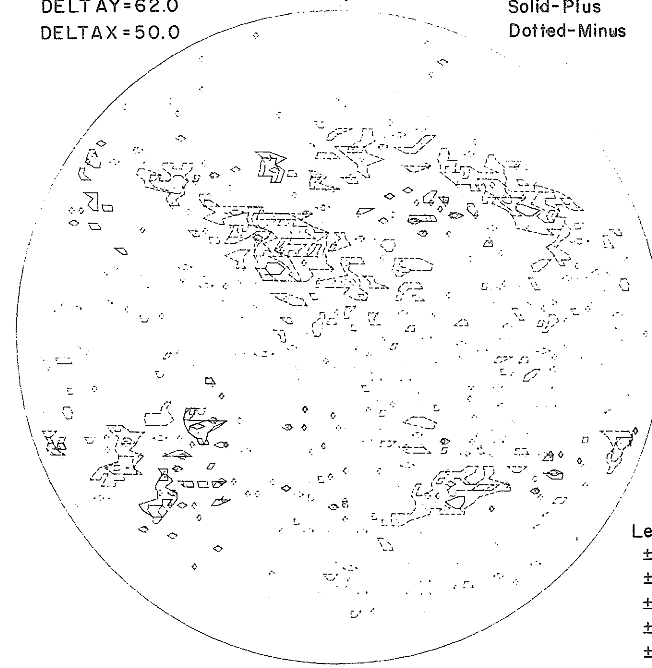


1346 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

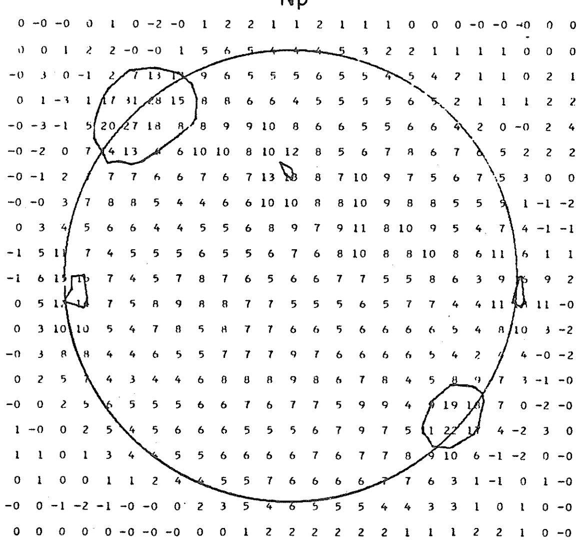
Solid-Plus
Dotted-Minus



Levels
±5
±10
±20
±40
±80

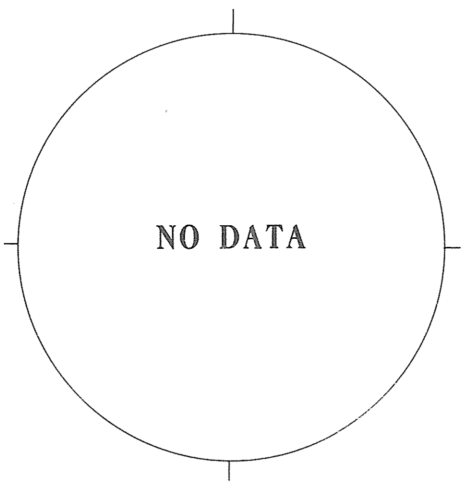
15.77-17.20 UT

STANFORD 9.1 cm.



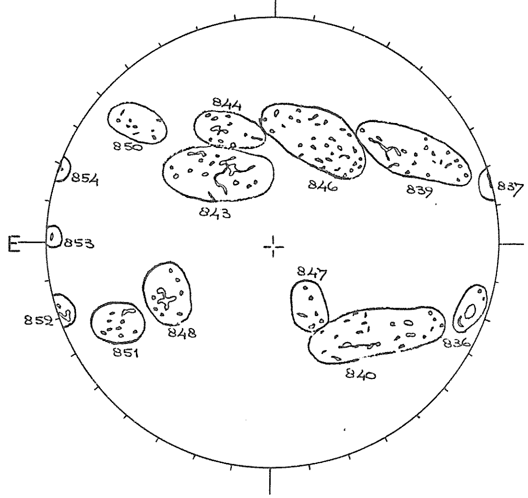
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT



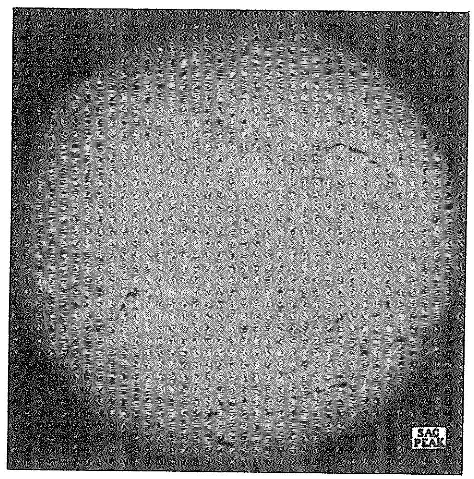
36-12-3.5
37-05-2.5
40-17-2.5

1310 UT

JUNE 15, 1967 (P=-10.11, B₀=1.00, L₀=316.08)

SACRAMENTO PEAK Hα

N

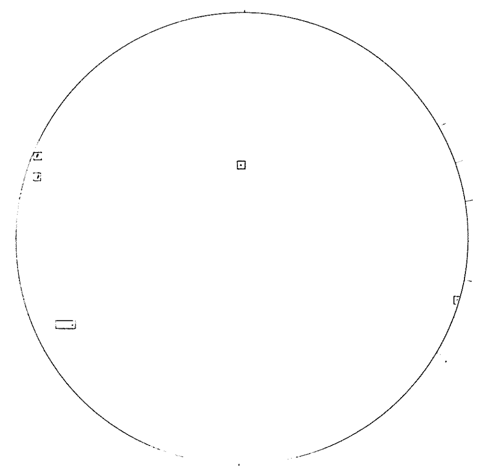
E  W

S

1436 UT

ESSA-BOULDER SUNSPOTS

Np

E  W

Sp

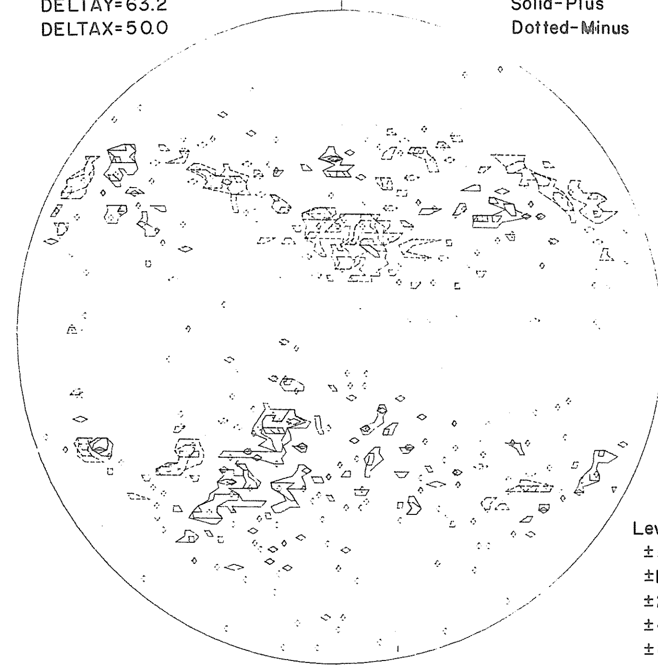
1330 UT

MT. WILSON MAGNETOGRAM

DELTAY=63.2
DELTAX=50.0

Solid-Plus
Dotted-Minus

Np

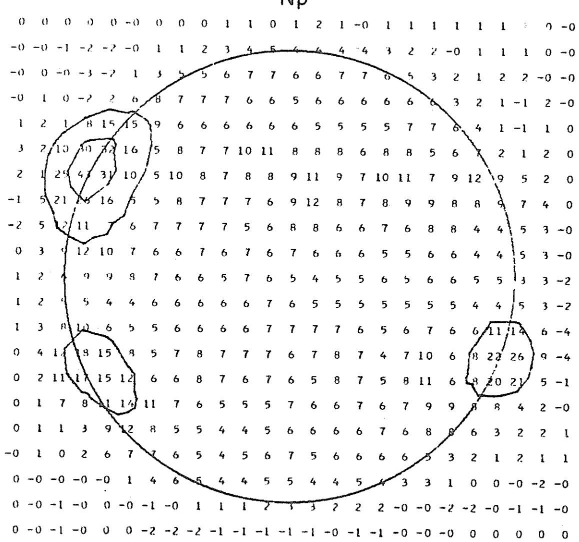
E  W

Levels
±5
±10
±20
±40
±80

17.82-19.23 UT Sp

STANFORD 9.1 cm.

Np

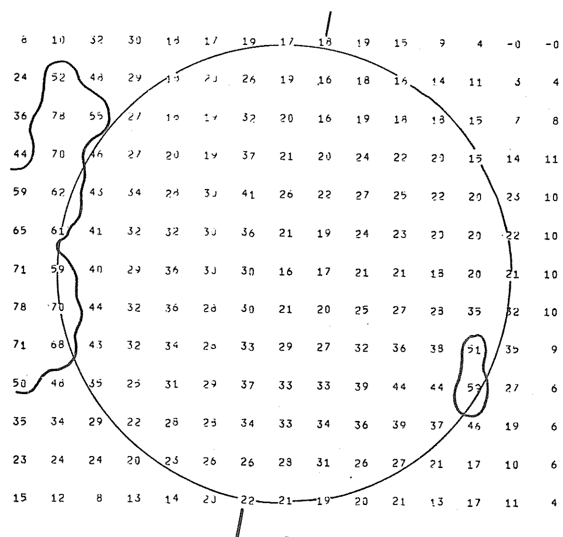
E  W

Sp

20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E  W

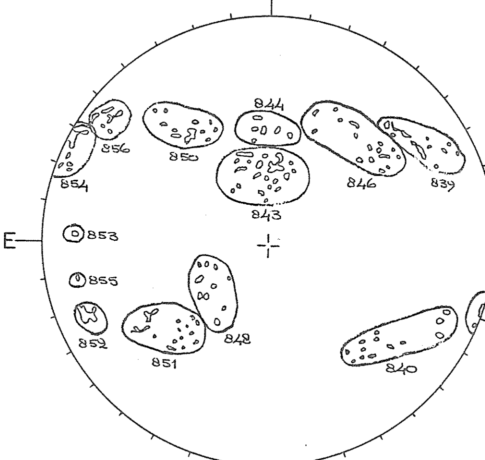
S

Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

Np

E  W

36-09-4.0
43-17-2.5
44-07-2.5
48-07-2.5
52-11-3.5
54-16-2.5

Sp

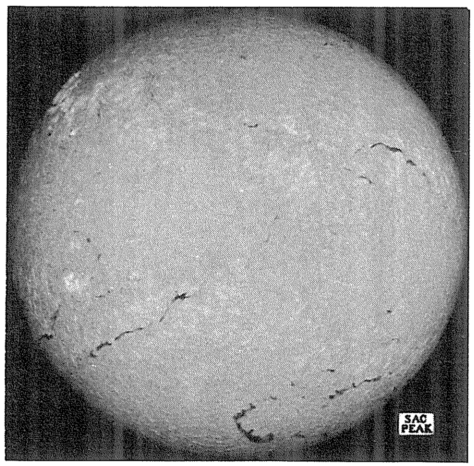
1330 UT

JUNE 16, 1967 (P=-9.68, B₀=1.12, L₀=302.84)

SACRAMENTO PEAK Hα

N

E



W

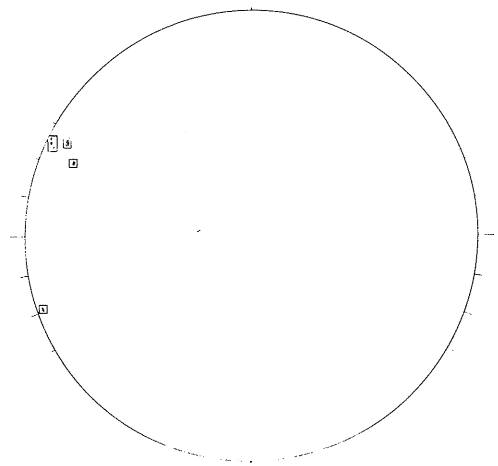
S

1403 UT

ESSA-BOULDER SUNSPOTS

Np

E



W

Sp

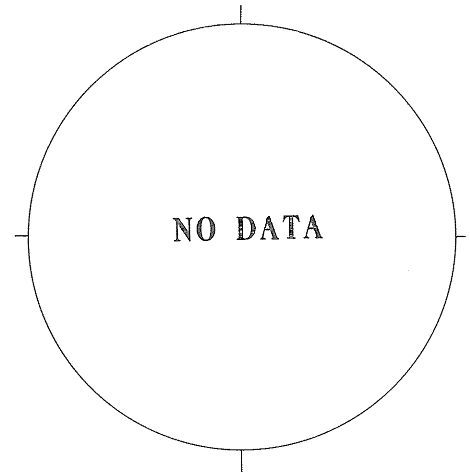
1820 UT

MT. WILSON

MAGNETOGRAM
Solid-Plus
Dotted-Minus

Np

E



W

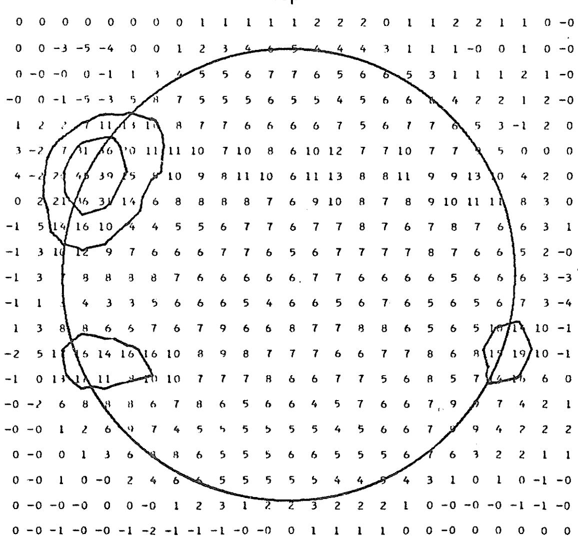
Sp

Levels
±5
±10
±20
±40
±80

STANFORD 9.1 cm.

Np

E



W

Sp

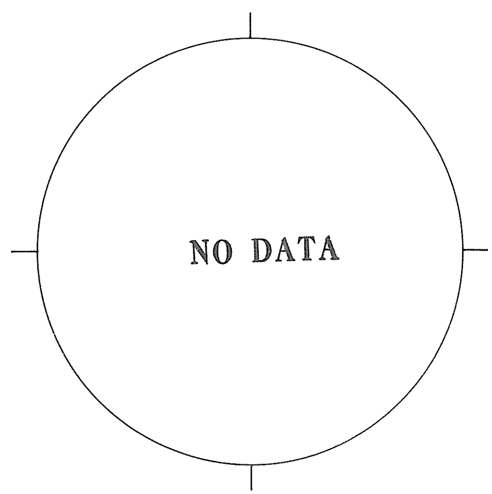
20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E



W

S

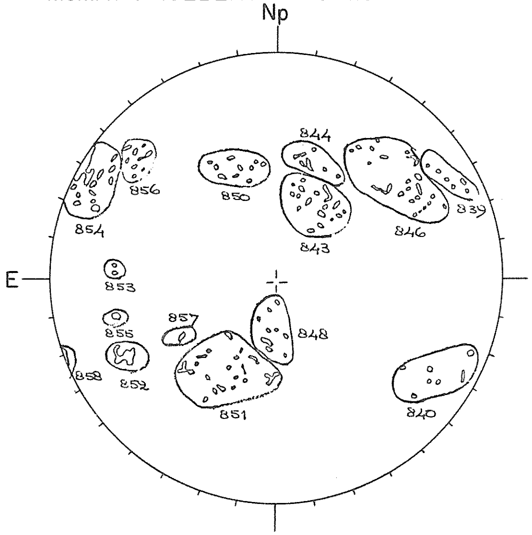
Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

Np

E



W

Sp

1340 UT

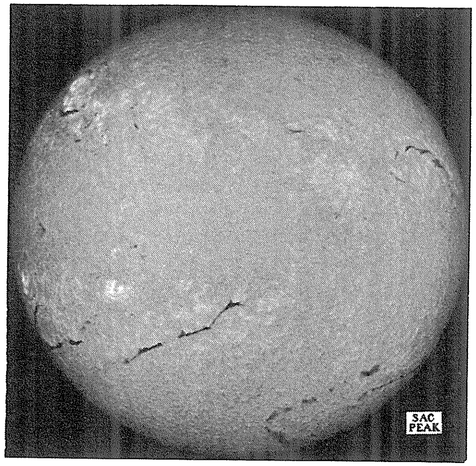
43-19-3.0
44-07-3.0
48-08-2.5
52-13-3.5
54-40-2.5

JUNE 17, 1967 (P=-9.25, B₀=1.23, L₀=289.61)

SACRAMENTO PEAK Hα

N

E



W

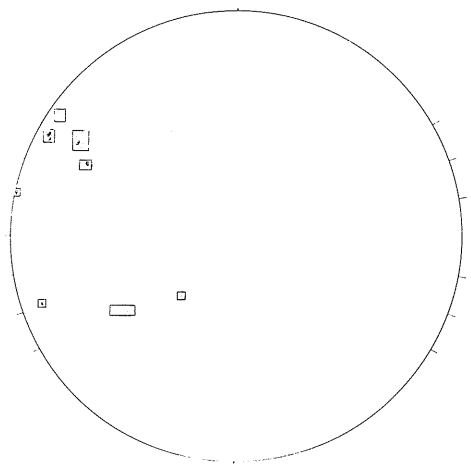
S

1408 UT

ESSA-BOULDER SUNSPOTS

Np

E



W

Sp

1355 UT

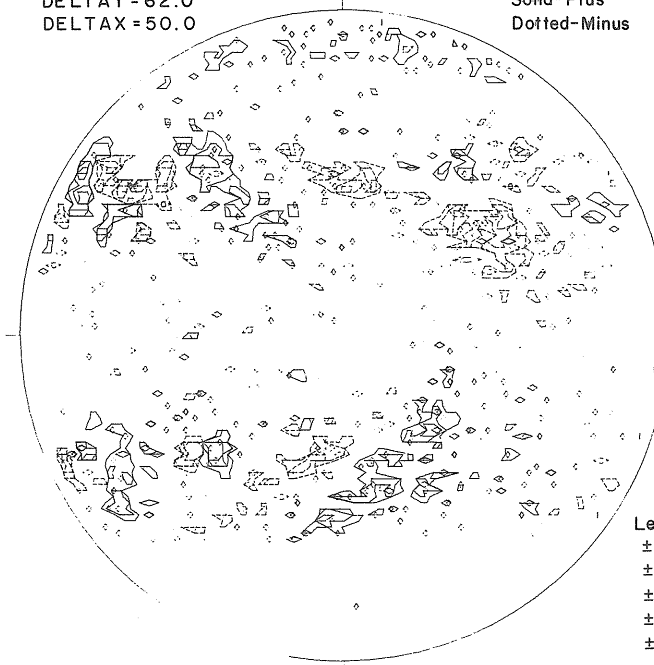
MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

Solid-Plus
Dotted-Minus

Np

E



W

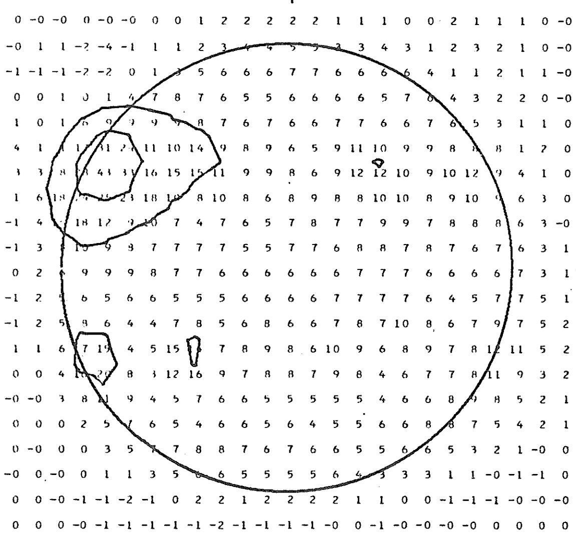
Levels
±5
±10
±20
±40
±80

19.02-20.45 UT Sp

STANFORD 9.1 cm.

Np

E



W

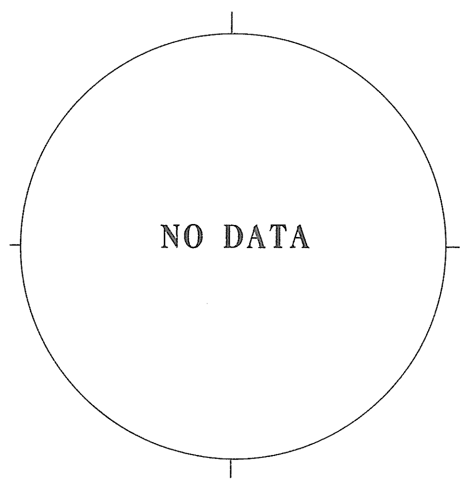
Sp
20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E



W

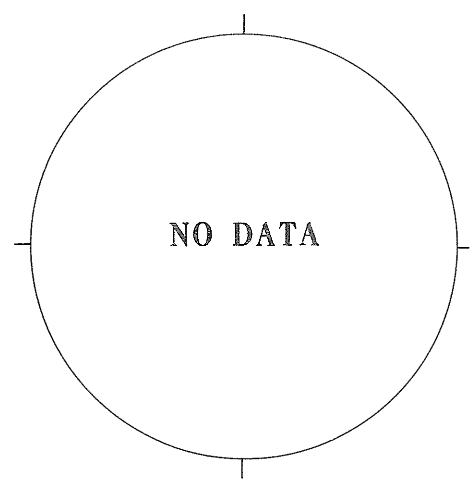
S

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

McMATH-HULBERT CALCIUM REPORT

Np

E

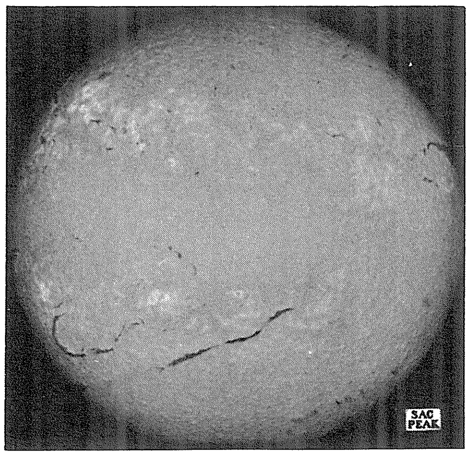


W

Sp

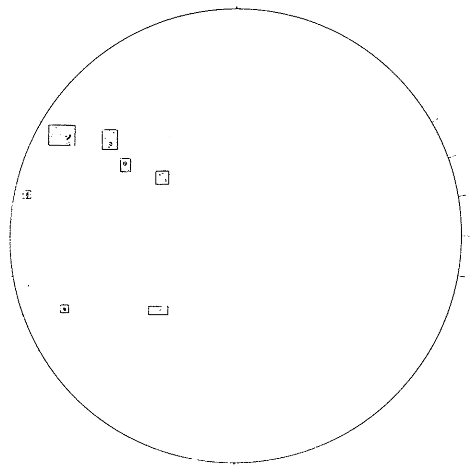
JUNE 18, 1967 (P=-8.82, B₀=1.32, L₀=276.37)

SACRAMENTO PEAK Hα



1432 UT

ESSA-BOULDER SUNSPOTS

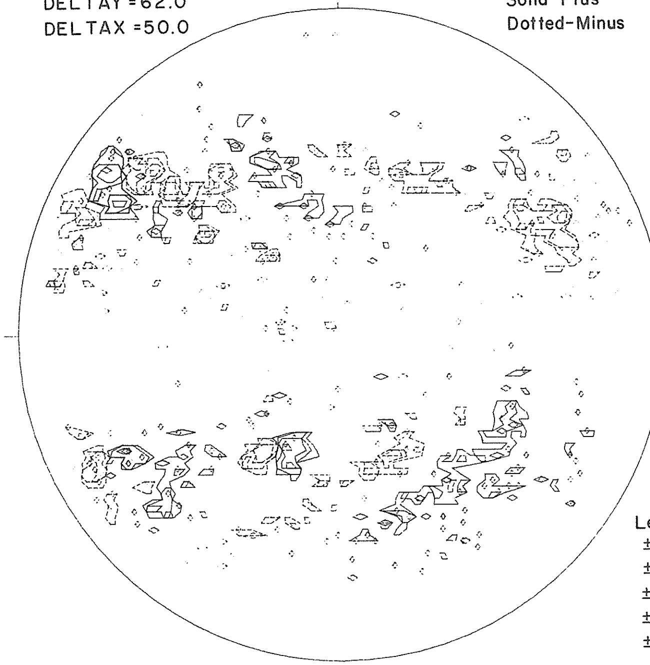


1355 UT

MT. WILSON MAGNETOGRAM

DELTAY = 62.0
DELTAX = 50.0

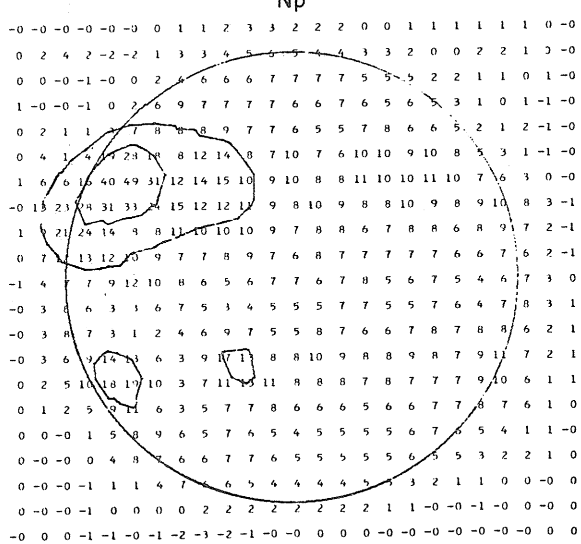
Solid-Plus
Dotted-Minus



Levels
±5
±10
±20
±40
±80

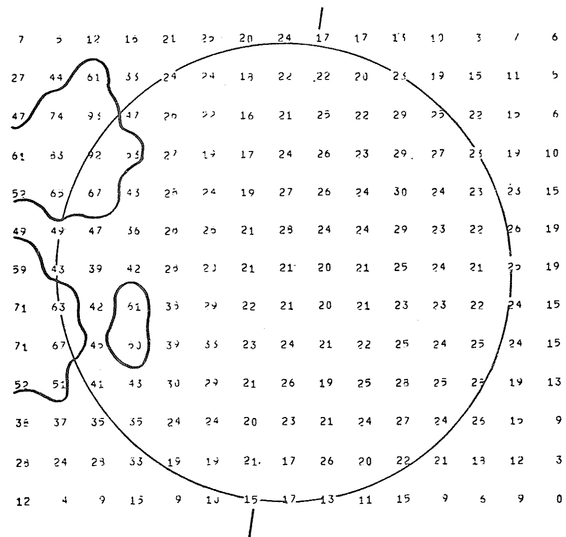
22.29-23.78 UT

STANFORD 9.1 cm.



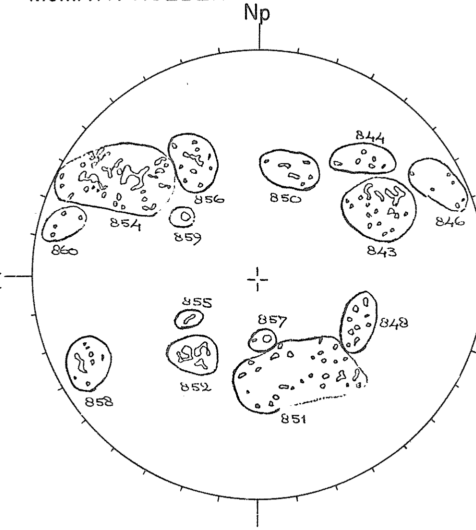
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT



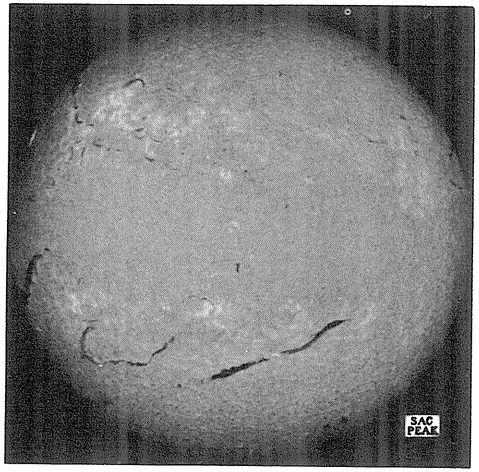
1345 UT

43-17-2.5
44-05-2.5
52-12-3.0
54-50-3.5
57-03-2.5
58-10-2.5
59-03-2.5

JUNE 19, 1967 (P=-8.38, B_o=1.47, L_o=263.13)

SACRAMENTO PEAK Hα

N

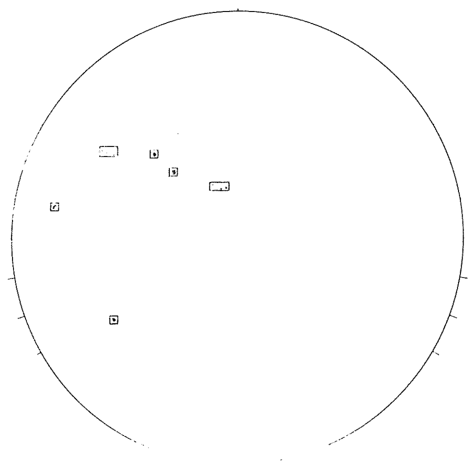
E  W

S

1333 UT

ESSA-BOULDER SUNSPOTS

Np

E  W

Sp

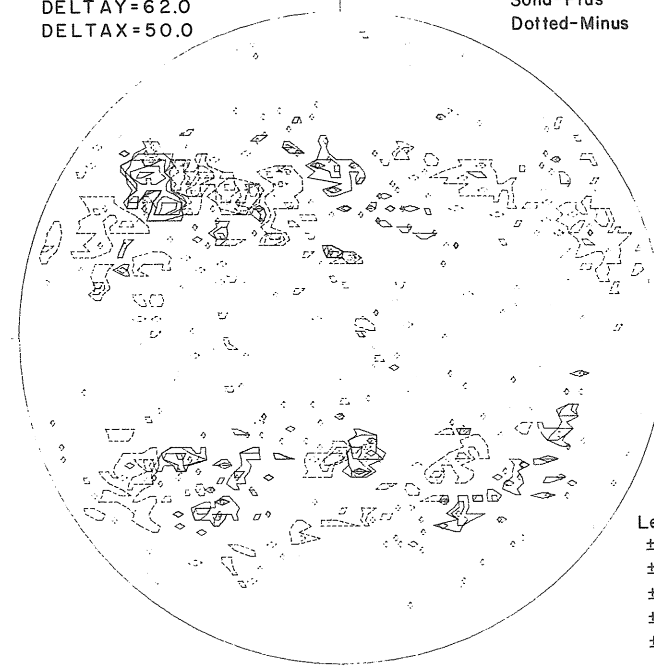
1530 UT

MT. WILSON

DELTAY=62.0
DELTAX=50.0

MAGNETOGRAM
Solid-Plus
Dotted-Minus

Np

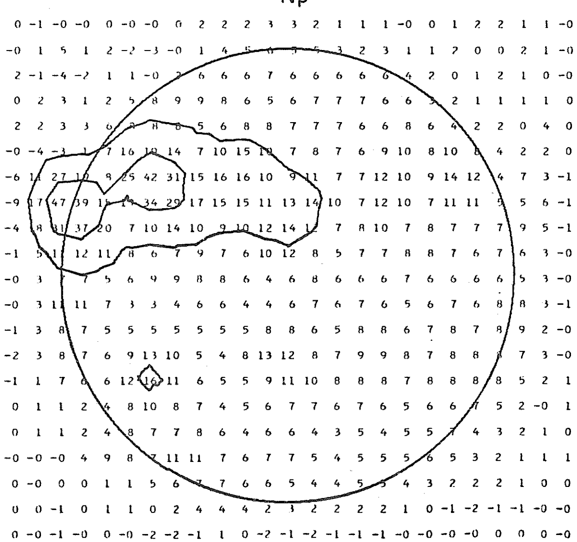
E  W

Levels
±5
±10
±20
±40
±80

22.35-23.77 UT Sp

STANFORD 9.1 cm.

Np

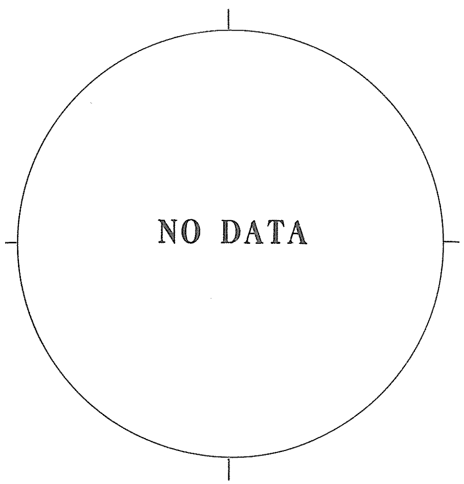
E  W

Sp
20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

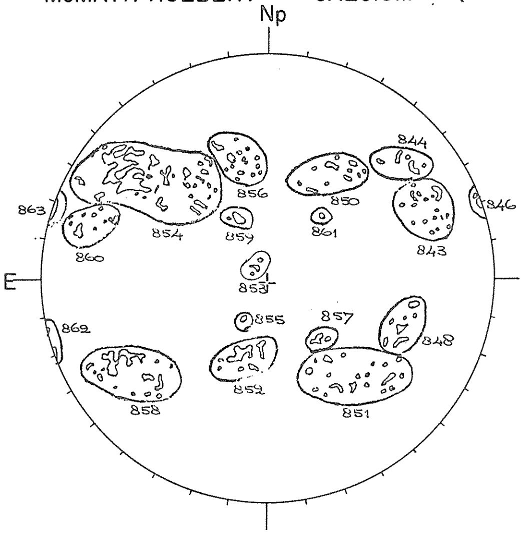
E  W

S

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

McMATH-HULBERT CALCIUM REPORT

Np

W  E W

Sp

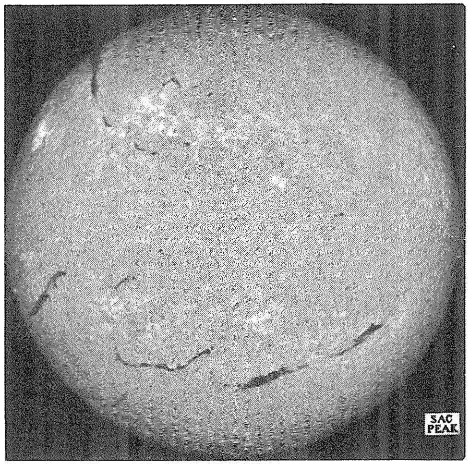
1220 UT

46-05-2.5
52-14-3.0
54-62-3.5
56-10-2.5
58-21-2.5
59-04-2.5
63-12-3.0

JUNE 20, 1967 (P=-7.94, B_o=1.59, L_o=249.89)

SACRAMENTO PEAK Hα

N

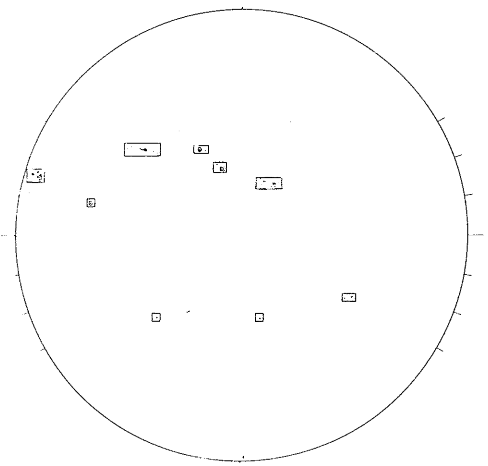
E  W

S

1718 UT

ESSA-BOULDER SUNSPOTS

Np

E  W

Sp

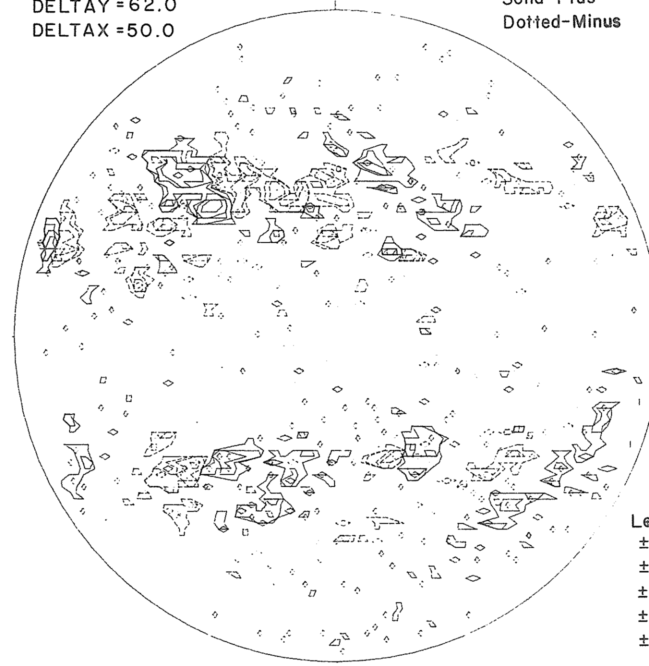
1340 UT

MT. WILSON MAGNETOGRAM

Solid-Plus
Dotted-Minus

DELTAY = 62.0
DELTAX = 50.0

Np

E  W

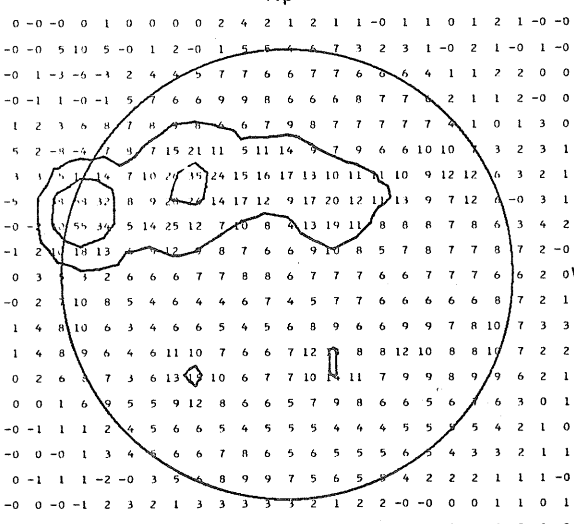
Sp

Levels
±5
±10
±20
±40
±80

20.01-20.75 UT

STANFORD 9.1 cm.

Np

E  W

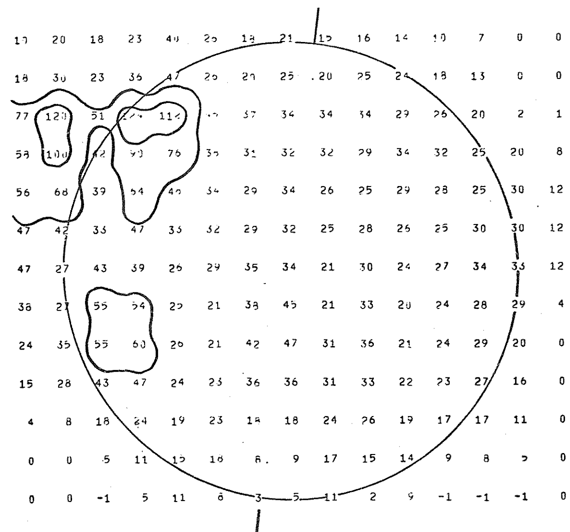
Sp

20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E  W

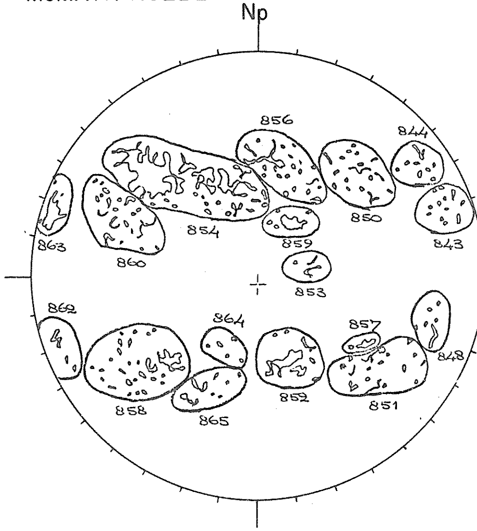
S

Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

Np

E  W

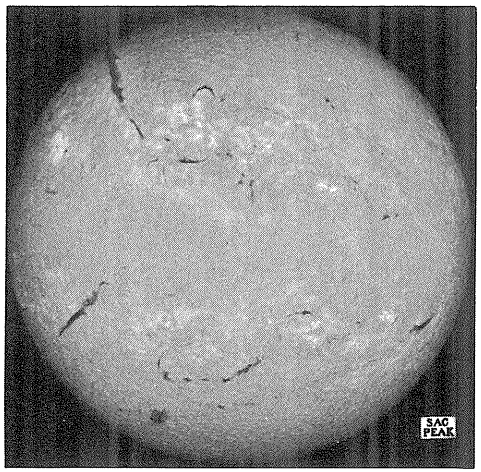
Sp

1720 UT

52-18-2.5
54-86-3.0
56-14-2.5
58-23-2.5
59-08-3.5
63-25-3.5

JUNE 21, 1967 (P=-7.50, B₀=1.71, L₀=236.66)

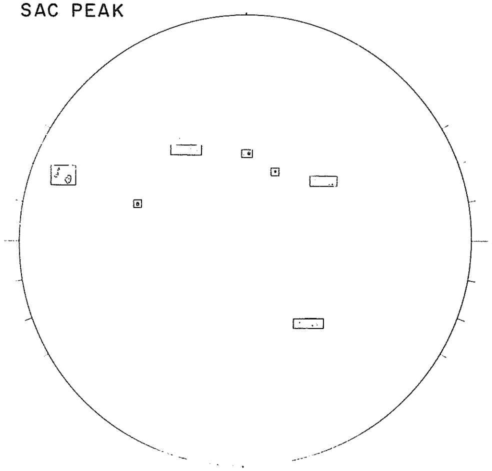
SACRAMENTO PEAK Hα



1400 UT

ESSA-BOULDER SUNSPOTS

SAC PEAK

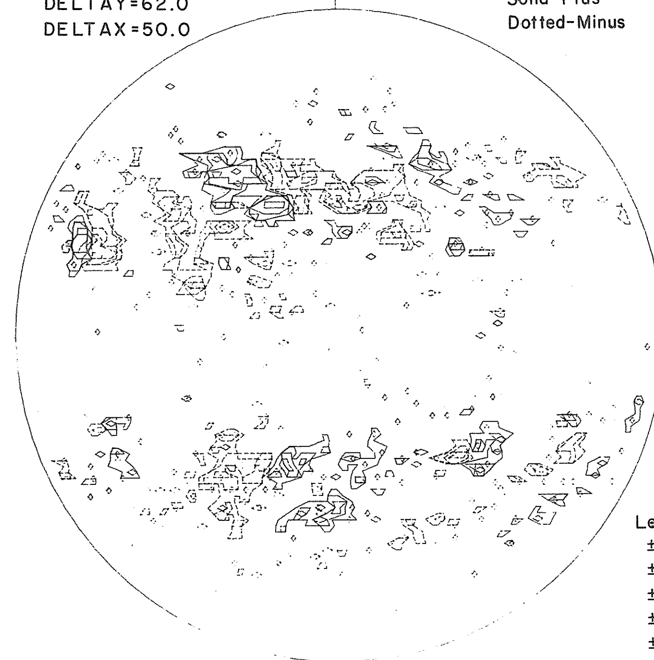


1345 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

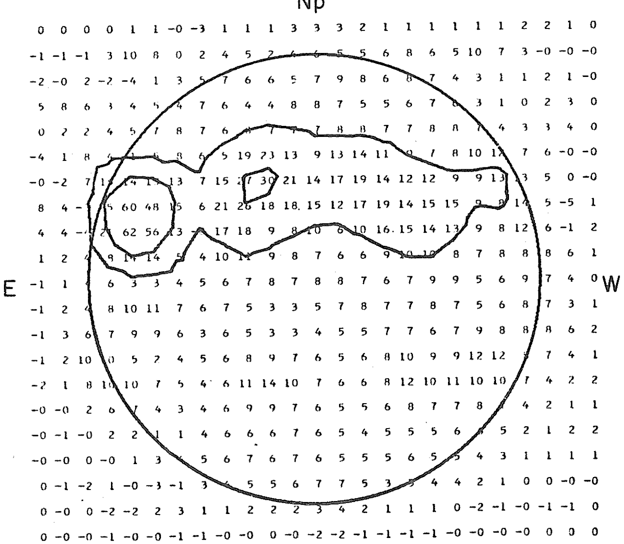
Solid-Plus
Dotted-Minus



Levels
±5
±10
±20
±40
±80

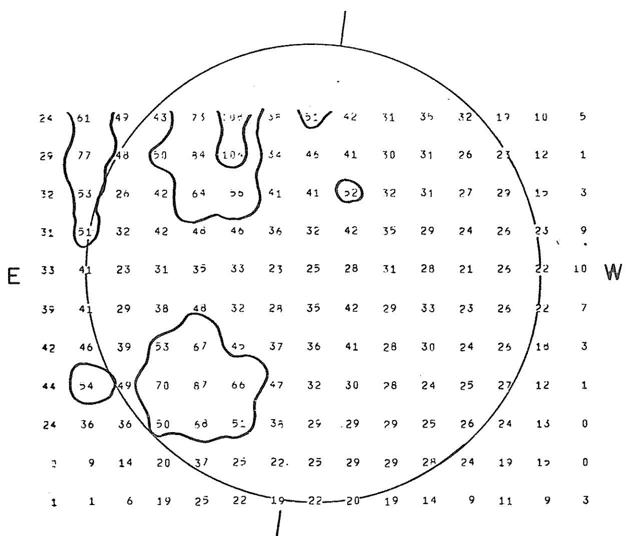
18.54-19.97 UT

STANFORD 9.1 cm.



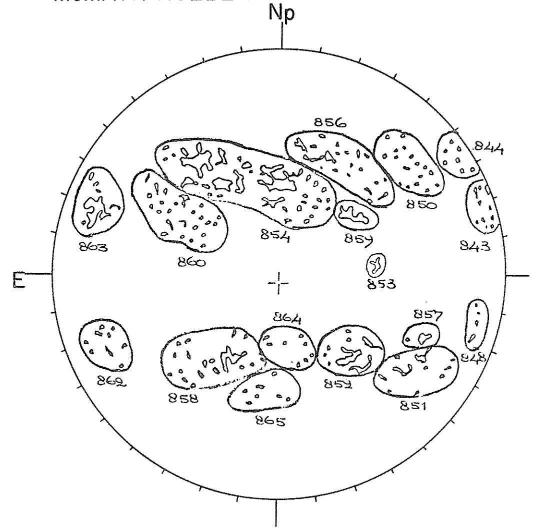
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT

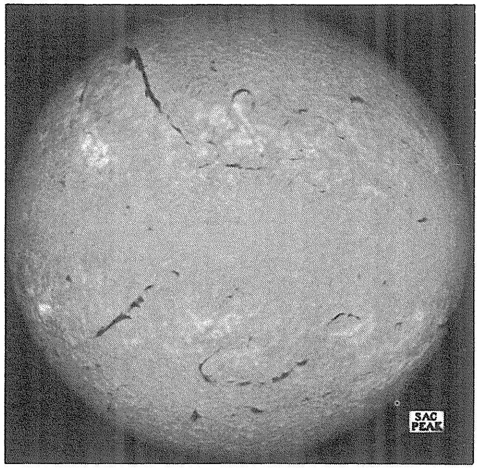


54 83 3.0
57-06-3.0
58-17-2.5
59-07-3.0
63-25-2.5

1315 UT

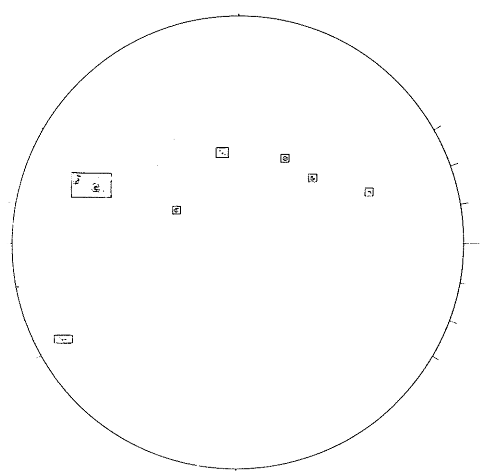
JUNE 22, 1967 (P=-7.06, B∘=1.82, L∘=223.42)

SACRAMENTO PEAK Hα



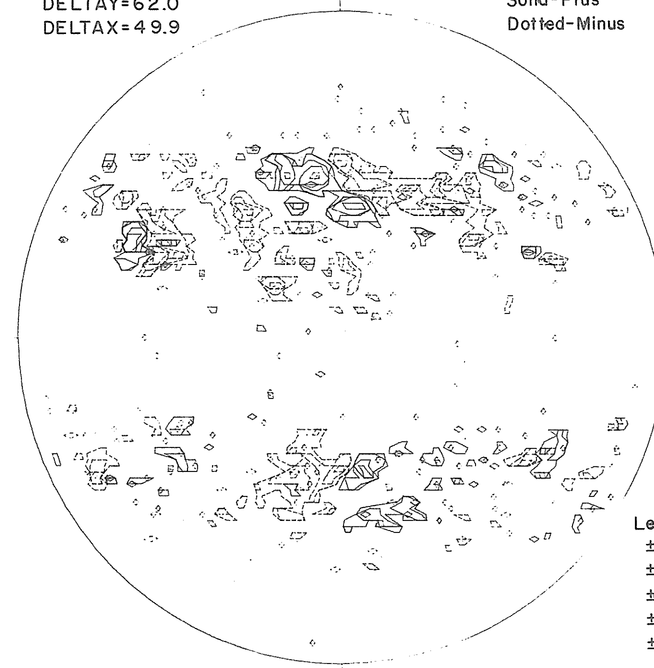
1445 UT

ESSA-BOULDER SUNSPOTS



1340 UT

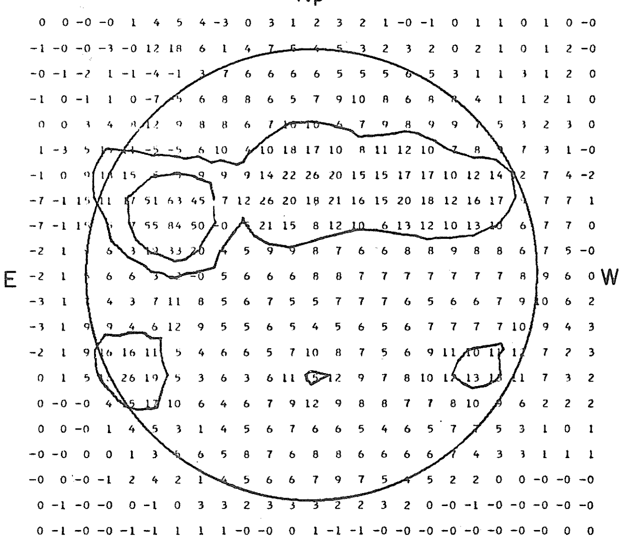
MT. WILSON MAGNETOGRAM
DELTAY=62.0
DELTAX=49.9
Solid-Plus
Dotted-Minus



Levels
±5
±10
±20
±40
±80

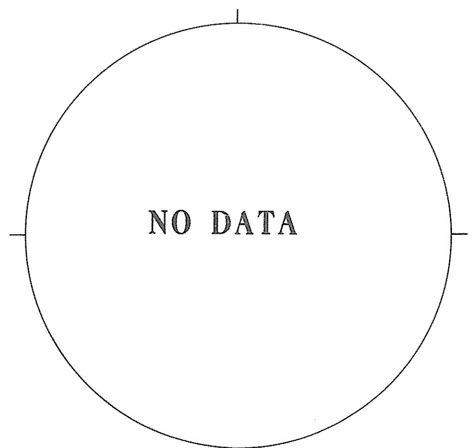
21.30-22.70 UT

STANFORD 9.1 cm.



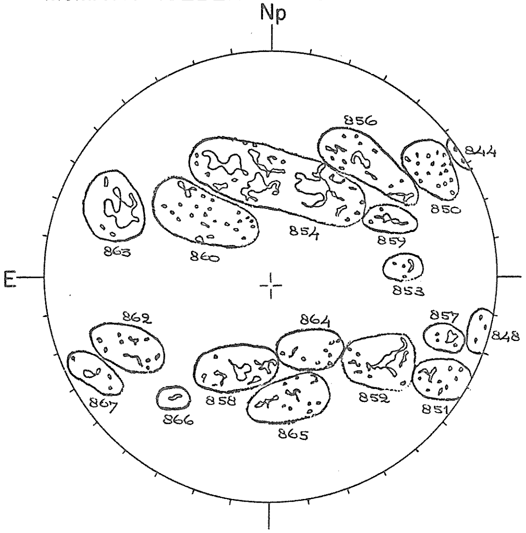
20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT

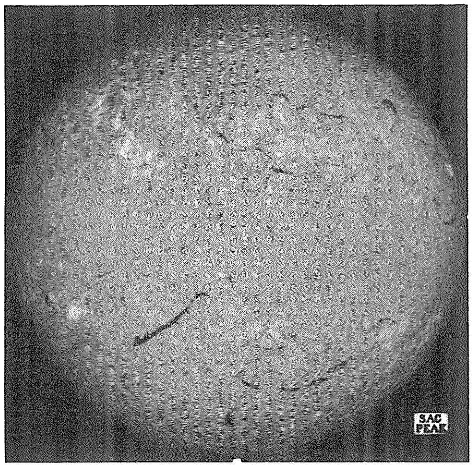


54-78-3.0
57-06-3.0
58-19-2.5
59-07-3.0
63-31-3.0
67-09-2.5

1315 UT

JUNE 23, 1967 (P=-6.61, B₀=1.94, L₀=210.18)

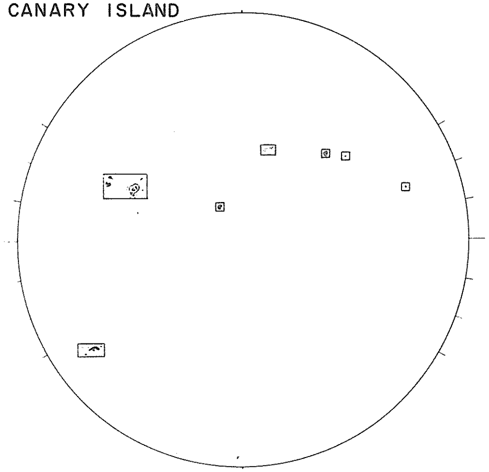
SACRAMENTO PEAK Hα



1458 UT

ESSA-BOULDER SUNSPOTS

CANARY ISLAND

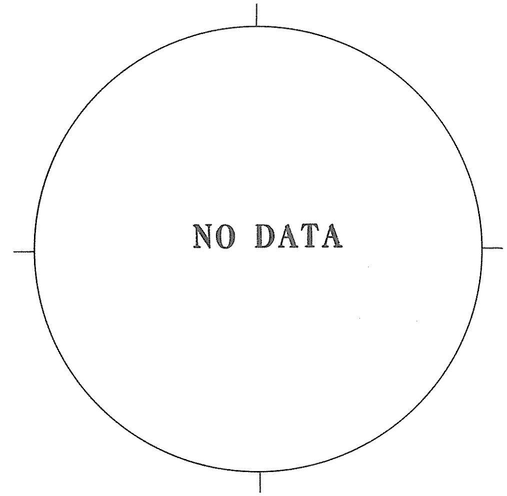


0700 UT

MT. WILSON MAGNETOGRAM

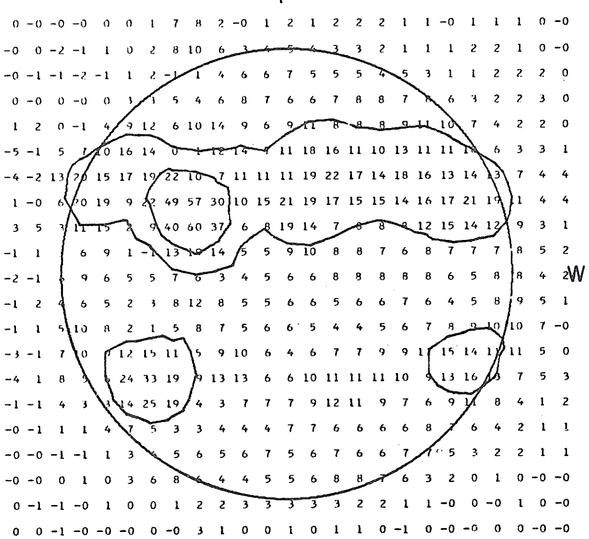
Solid-Plus

Dotted-Minus



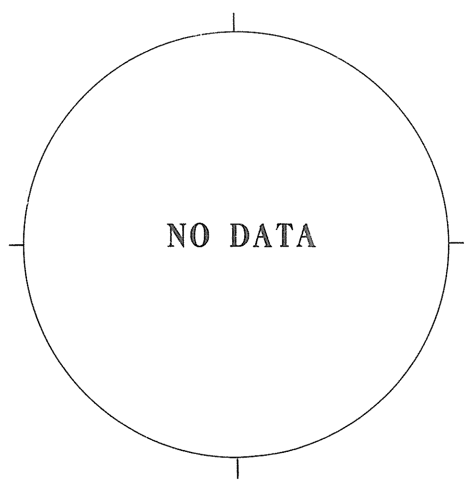
Levels
±5
±10
±20
±40
±80

STANFORD 9.1 cm.



20-21 UT Brightness Unit 5,000° K

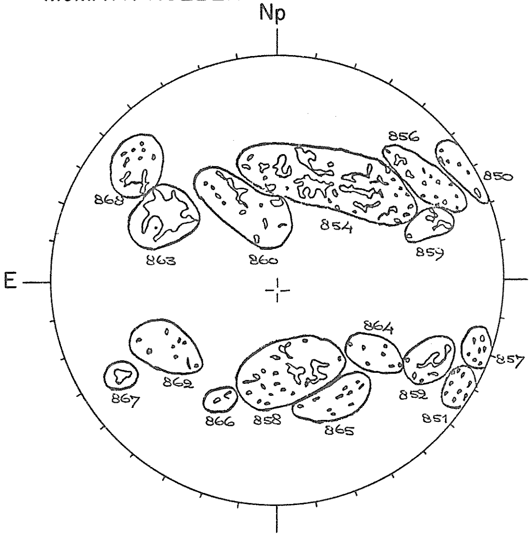
FLEURS, AUSTRALIA 21 cm.



Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

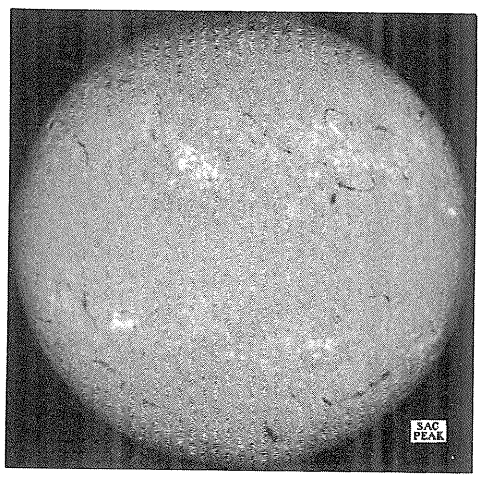


50-09-3.0
54-77-3.0
58-24-2.5
59-09-3.0
63-51-3.0
67-10-3.0
68-17-3.0

1305 UT

JUNE 24, 1967 (P=-6.17, B₀=2.06, L₀=196.95)

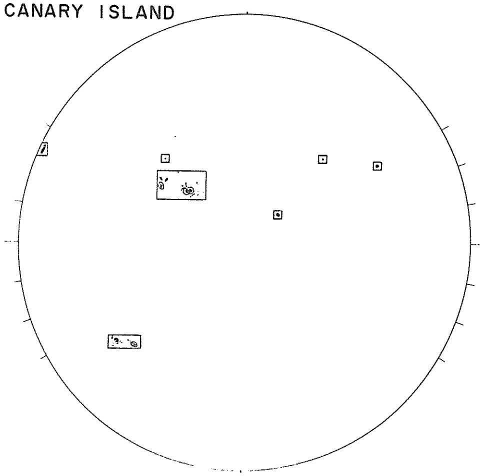
SACRAMENTO PEAK Hα



1904 UT

ESSA-BOULDER SUNSPOTS

CANARY ISLAND

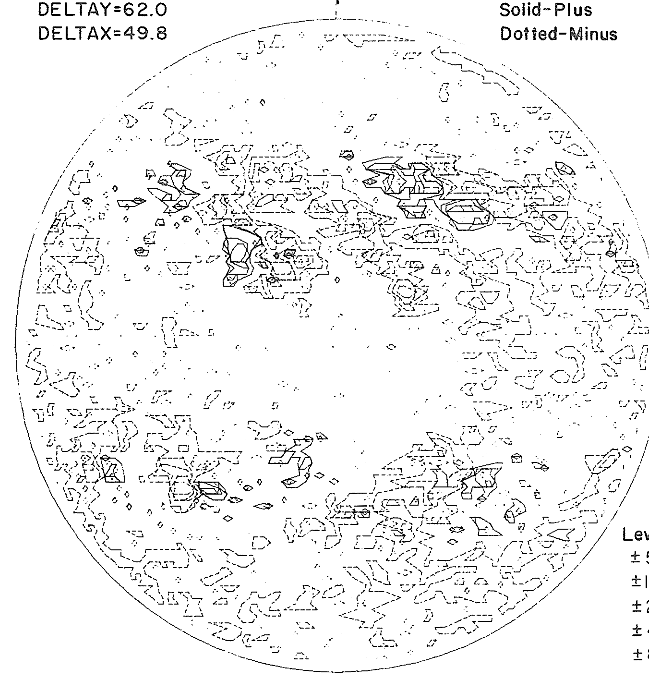


0730 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=49.8

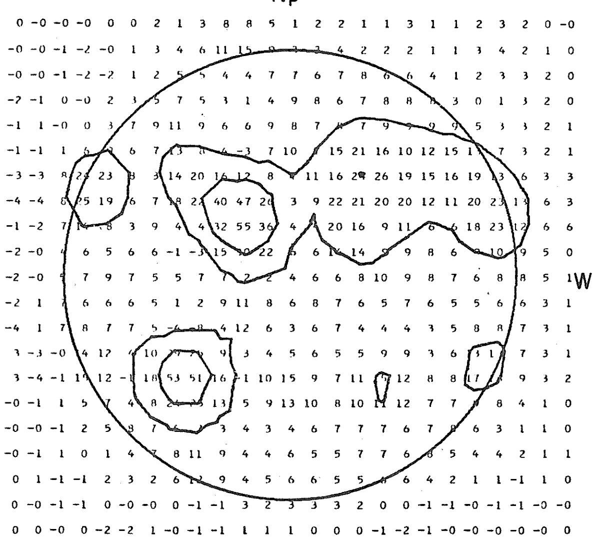
Solid-Plus
Dotted-Minus



Levels
±5
±10
±20
±40
±80

18.01-19.43 UT

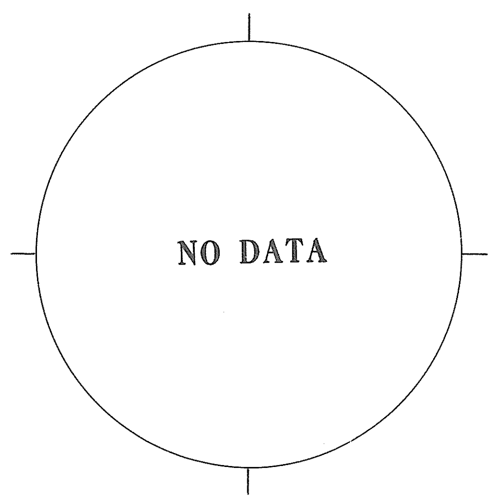
STANFORD 9.1 cm.



Brightness Unit 5,000° K

20-21 UT

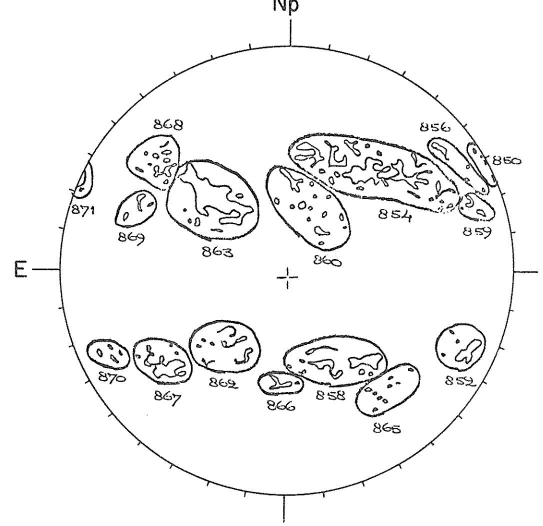
FLEURS, AUSTRALIA 21 cm.



Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

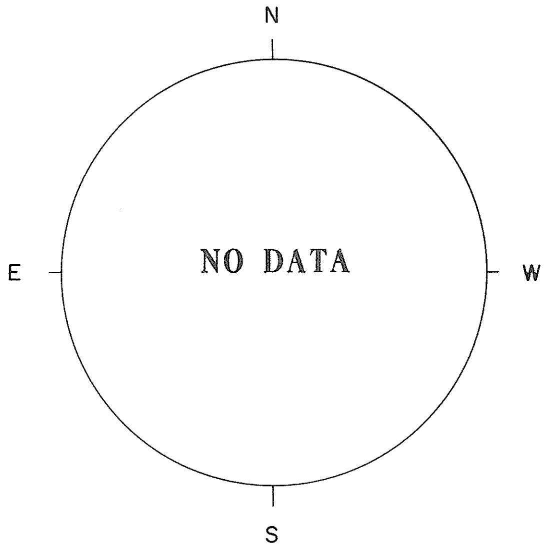


54-78-3.0
56-09-2.5
58-26-2.5
59-08-3.5
60-18-2.5
63-63-3.0
67-18-2.5
70-05-2.5

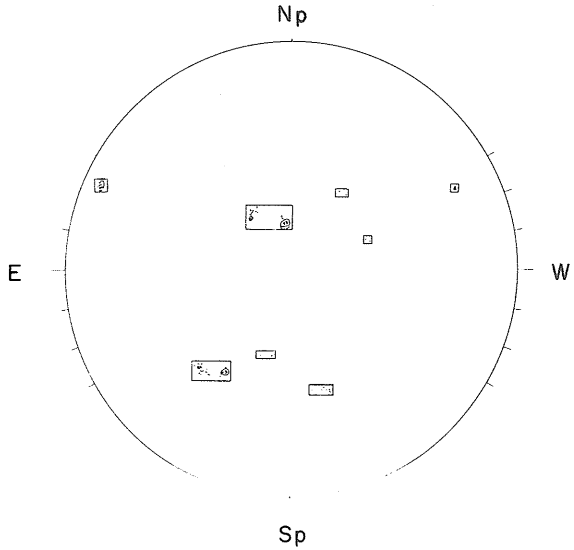
1320 UT

JUNE 25, 1967 (P=-5.72, B₀=2.17, L₀=183.71)

SACRAMENTO PEAK Hα



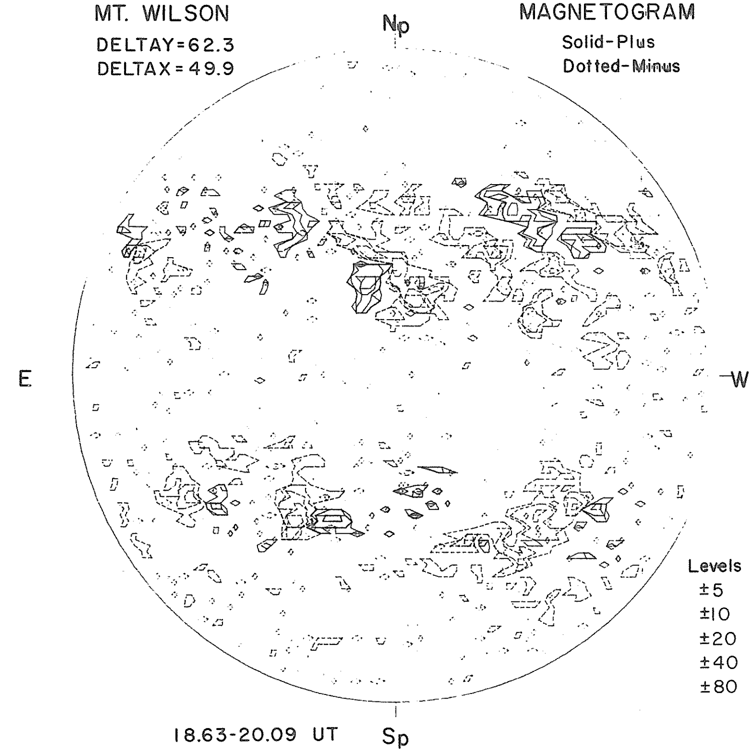
ESSA-BOULDER SUNSPOTS



1255 UT

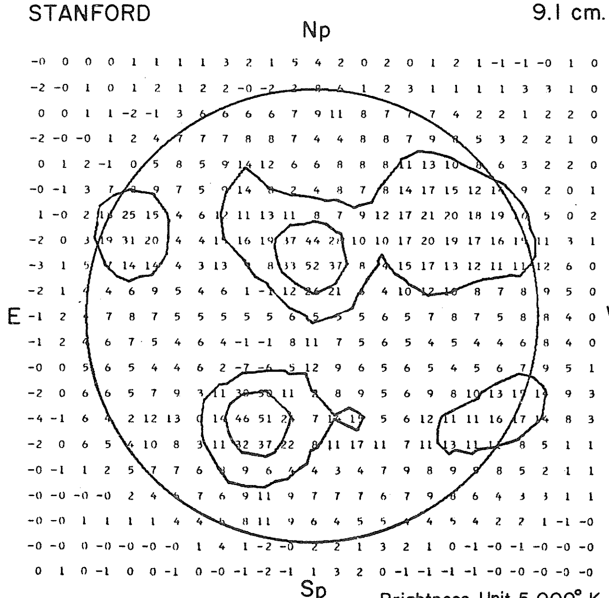
MT. WILSON
DELTAY=62.3
DELTAX=49.9

MAGNETOGRAM
Solid-Plus
Dotted-Minus



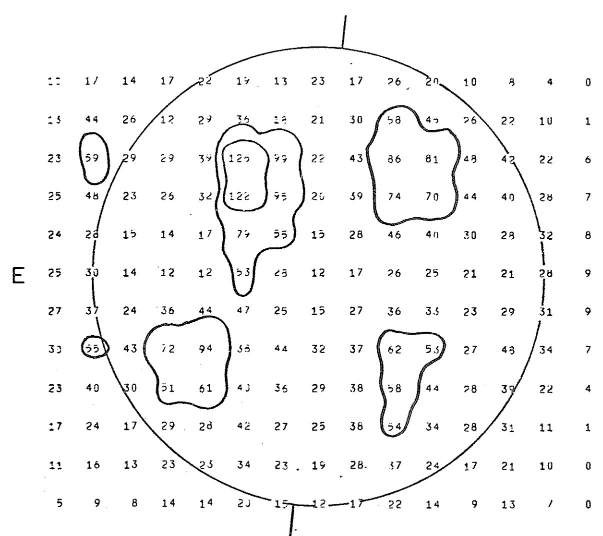
18.63-20.09 UT

STANFORD 9.1 cm.



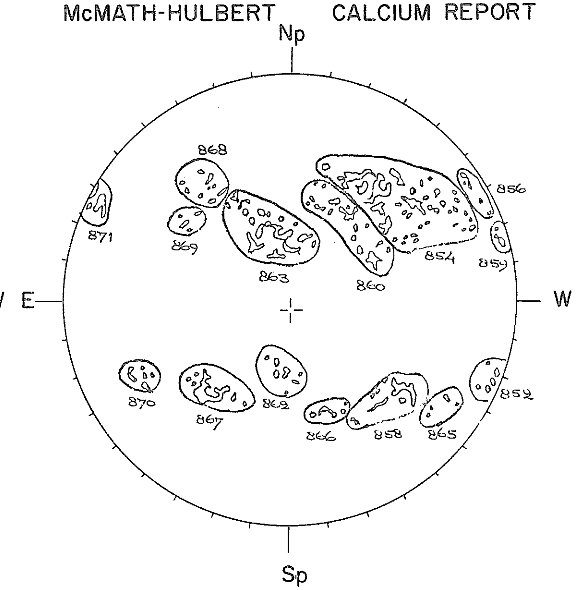
Brightness Unit 5,000° K
20-21 UT

FLEURS, AUSTRALIA 21 cm.



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

McMATH-HULBERT CALCIUM REPORT



54-70-3.0
58-20-3.0
59-08-3.5
60-20-2.5
63-50-3.0
66-05-3.0
67-18-3.0

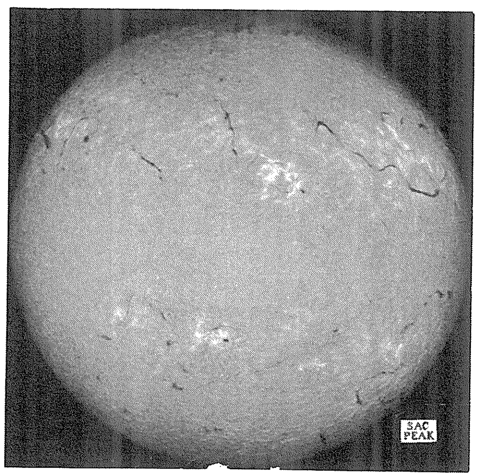
1415 UT

JUNE 26, 1967 (P=-5.27, B₀=2.28, L₀=170.47)

SACRAMENTO PEAK Hα

N

E



W

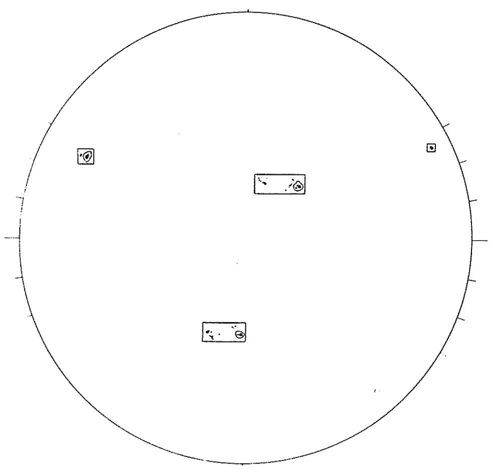
S

1546 UT

ESSA-BOULDER SUNSPOTS

Np

E



W

Sp

1350 UT

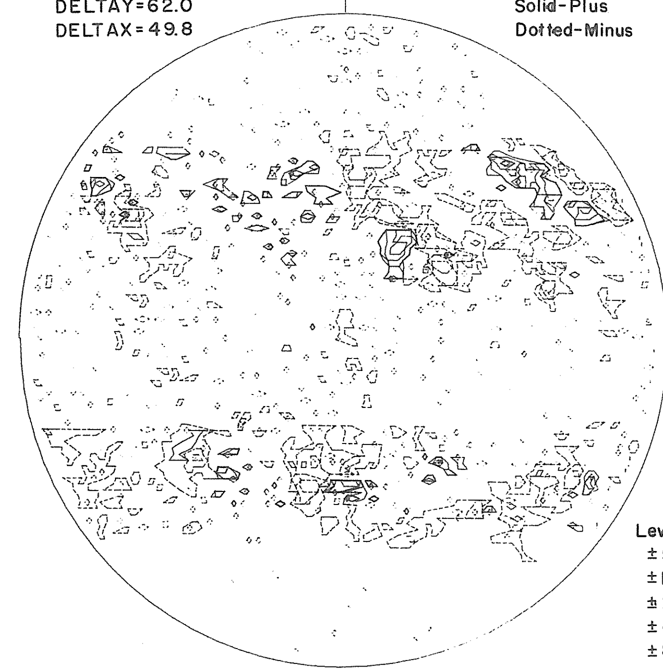
MT. WILSON

DELTAY=62.0
DELTAX=49.8

MAGNETOGRAM
Solid-Plus
Dotted-Minus

Np

E



W

Levels
±5
±10
±20
±40
±80

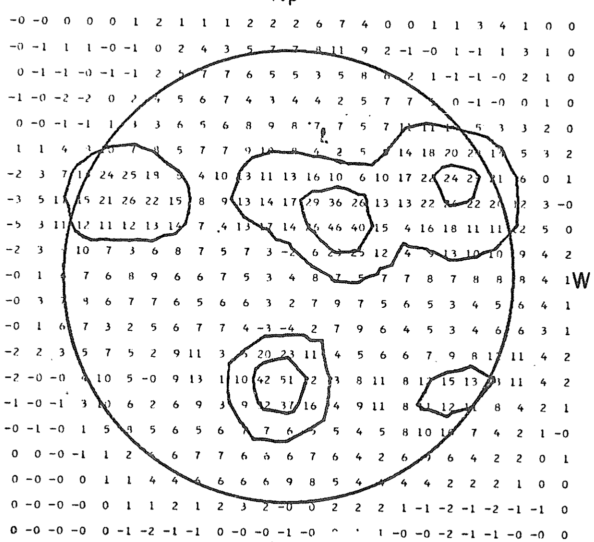
21.33-22.74 UT

Sp

STANFORD 9.1 cm.

Np

E



W

Sp

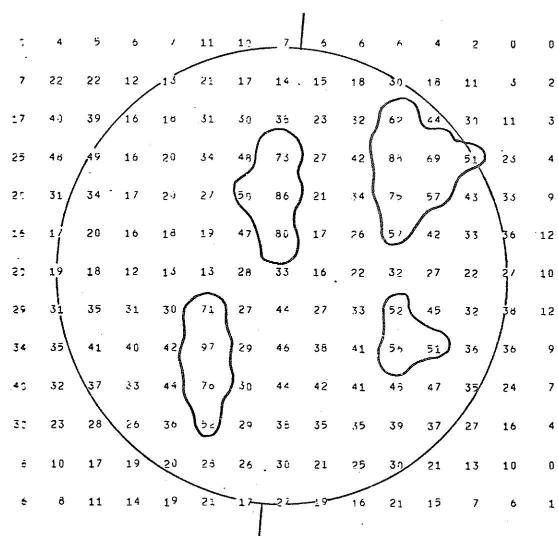
20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E



W

S

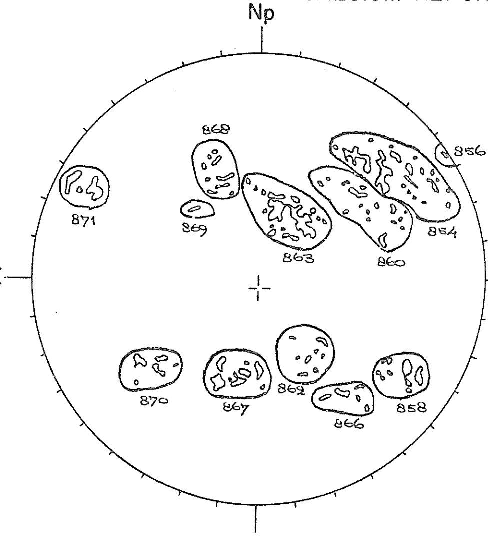
Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

Np

E



W

Sp

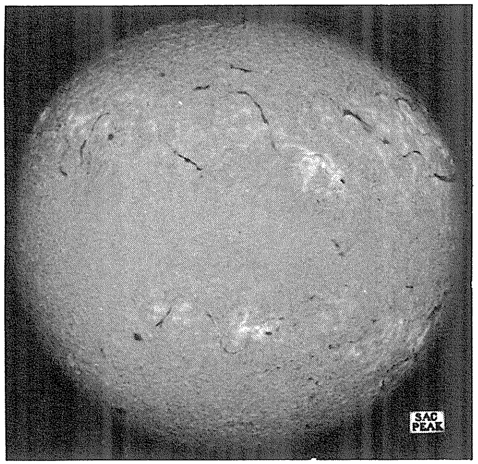
1225 UT

54-55-3.5
58-21-3.5
60-17-2.5
63-40-3.5
66-08-3.0
67-17-3.0
71-30-2.0

JUNE 27, 1967 (P=-4.82, B₀=2.40, L₀=157.23)

SACRAMENTO PEAK Hα

N

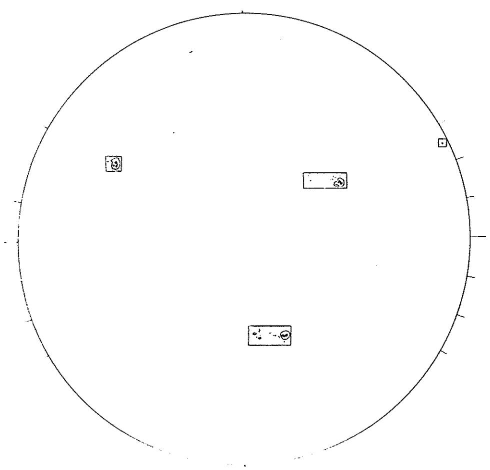
E  W

S

1332 UT

ESSA-BOULDER SUNSPOTS

Np

E  W

Sp

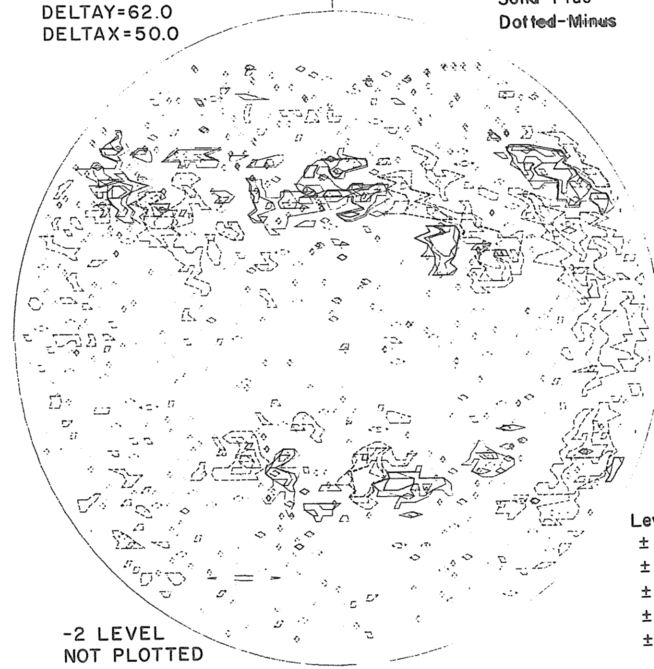
1350 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

Solid-Plus
Dotted-Minus

Np

E  W

Levels
±5
±10
±20
±40
±80

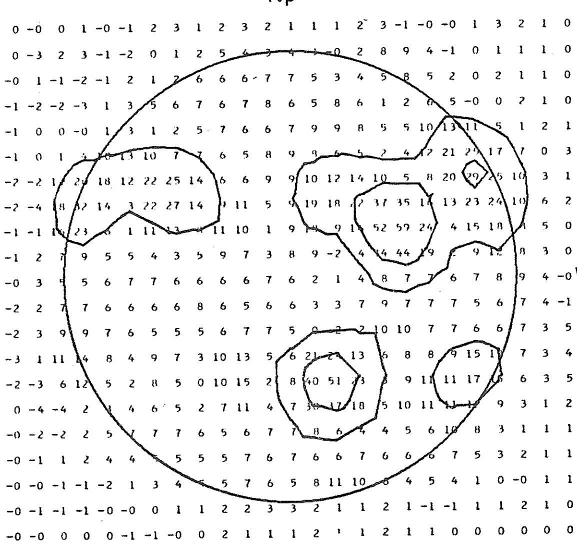
-2 LEVEL
NOT PLOTTED

Sp

17.60-18.96 UT

STANFORD 9.1 cm.

Np

E  W

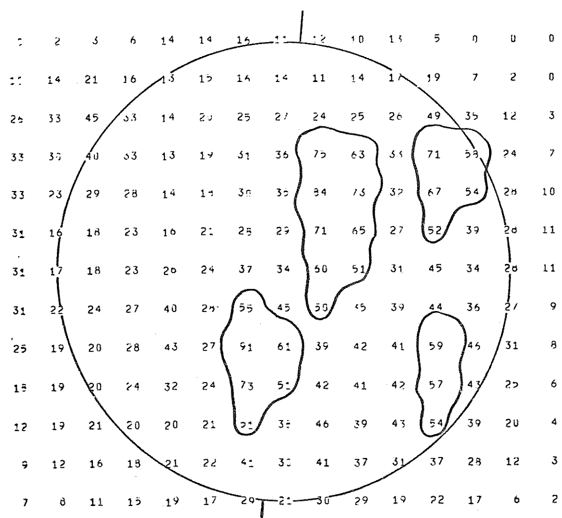
Sp

20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E  W

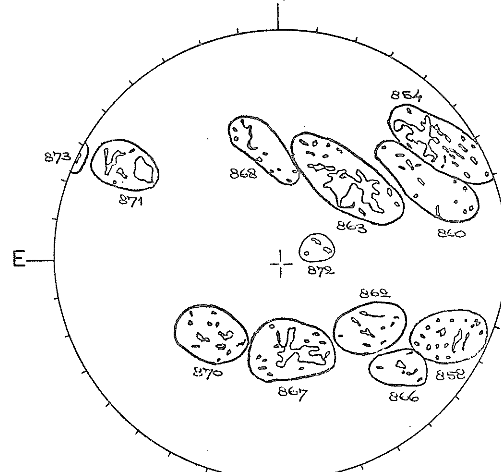
S

Resolution 3 Minutes of Arc

02-03 UT Brightness Unit 1,700° K

McMATH-HULBERT CALCIUM REPORT

Np

E  W

Sp

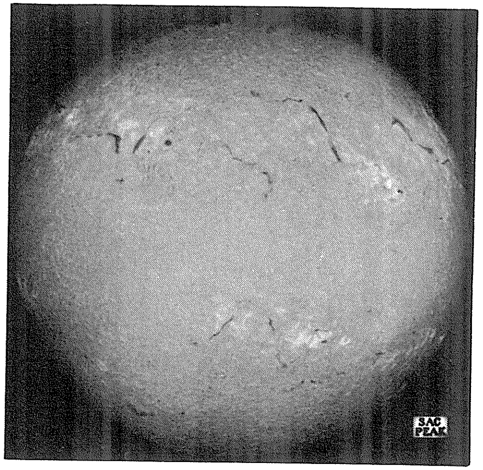
1310 UT

54-53-3.0
60-13-2.5
63-39-3.0
66-08-2.5
67-23-3.0
70-09-2.5

JUNE 28, 1967 (P=-4.37, B_o=2.51, L_o=144.00)

SACRAMENTO PEAK Hα

N

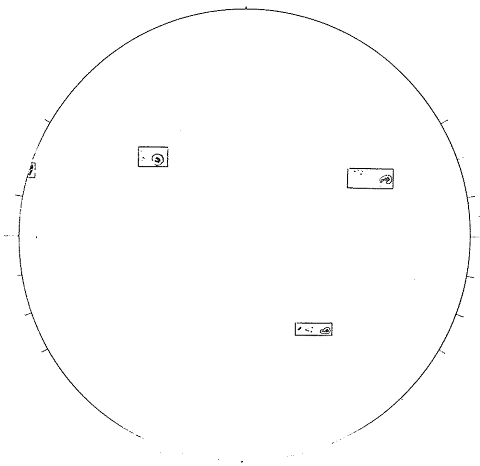
E  W

S

1914 UT

ESSA-BOULDER SUNSPOTS

Np

E  W

Sp

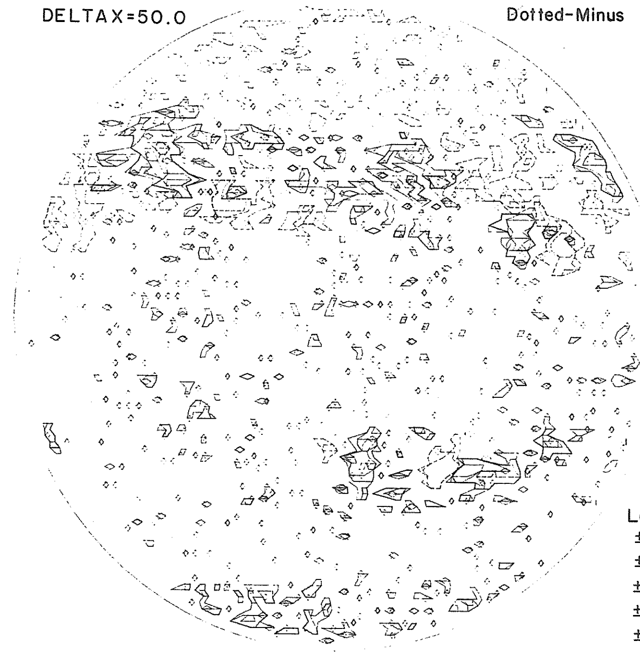
1400 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

Solid-Plus
Dotted-Minus

Np

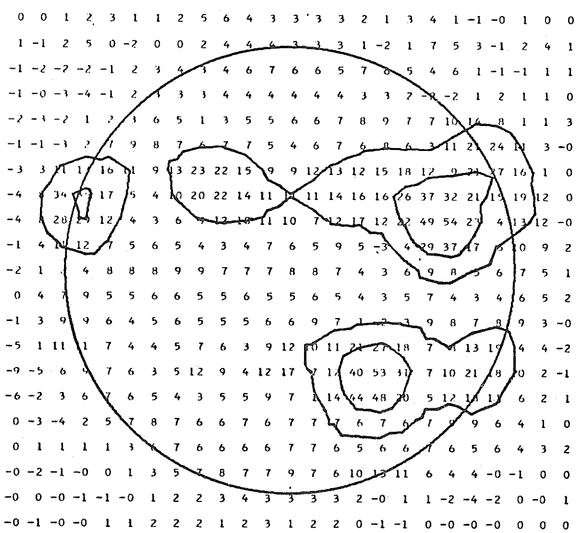
E  W

Levels
±5
±10
±20
±40
±80

22.00-22.73 UT Sp

STANFORD 9.1 cm.

Np

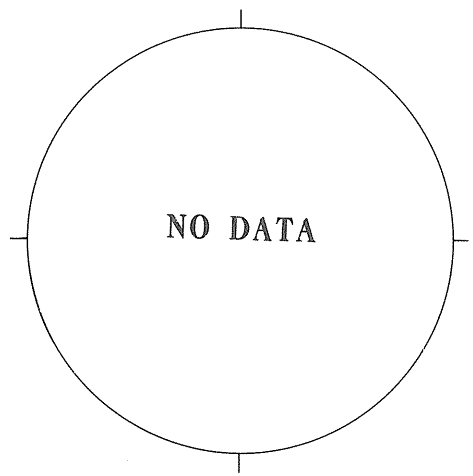
E  W

Sp

20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E  W

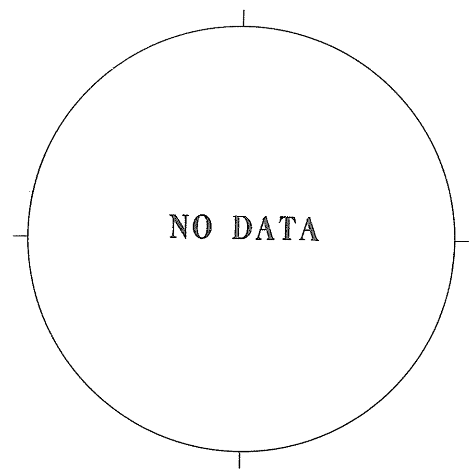
NO DATA

S

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

McMATH-HULBERT CALCIUM REPORT

Np

E  W

NO DATA

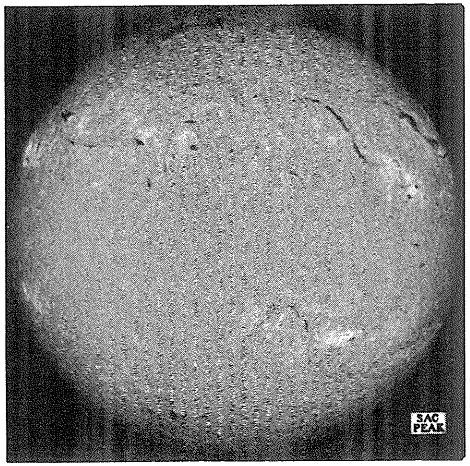
Sp

JUNE 29, 1967 (P=-3.92, B₀=2.62, L₀=130.76)

SACRAMENTO PEAK Hα

N

E



W

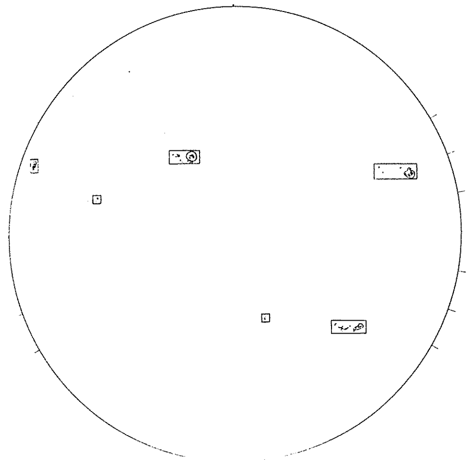
S

1332 UT

ESSA-BOULDER SUNSPOTS

Np

E



W

Sp

1350 UT

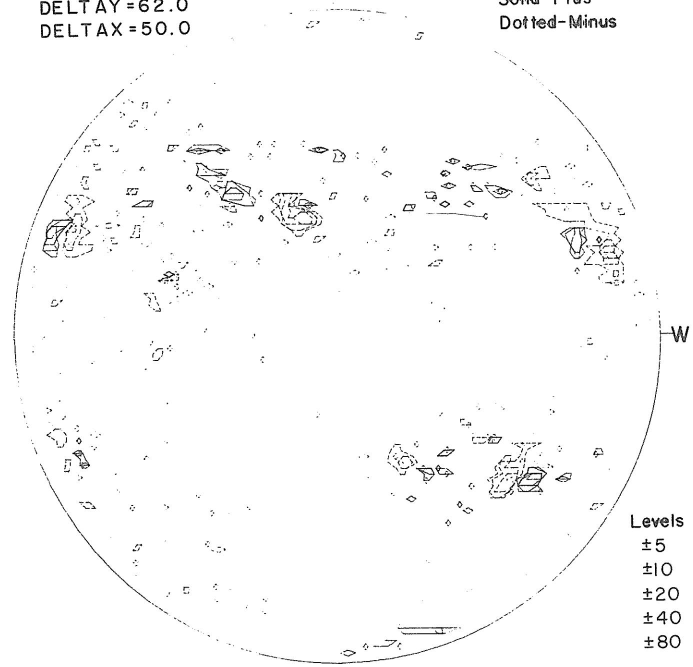
MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

Solid-Plus
Dotted-Minus

Np

E



W

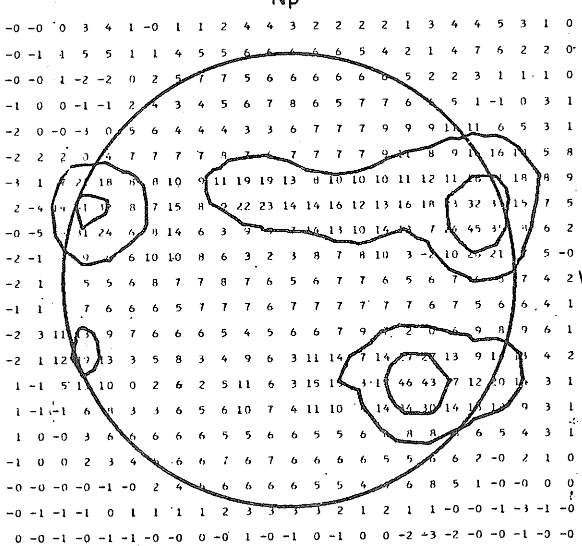
Levels
±5
±10
±20
±40
±80

0.19-1.00 UT Sp

STANFORD 9.1 cm.

Np

E



W

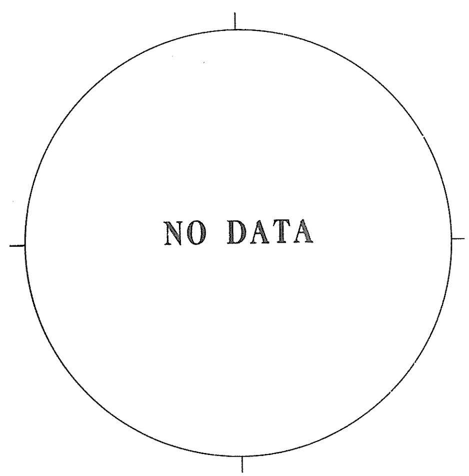
Sp
20-21 UT

Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

E



W

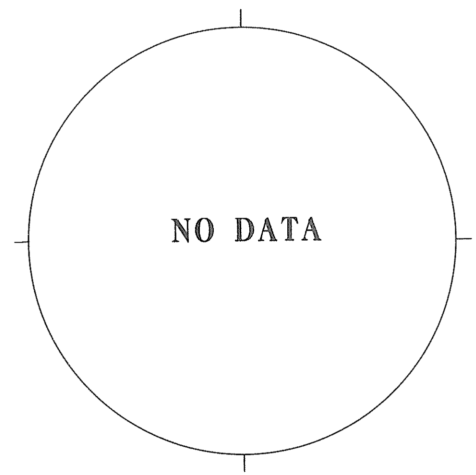
S

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

McMATH-HULBERT CALCIUM REPORT

Np

E



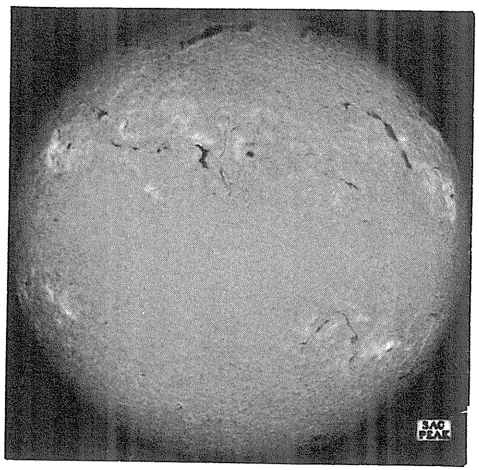
W

Sp

JUNE 30, 1967 (P=-3.46, B₀=2.74, L₀=117.52)

SACRAMENTO PEAK Hα

N

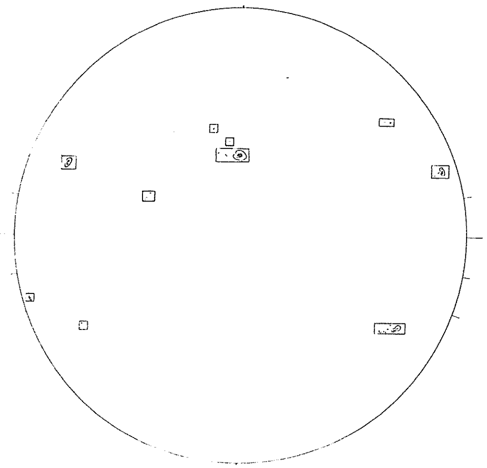
E  W

S

1428 UT

ESSA-BOULDER SUNSPOTS

Np

E  W

Sp

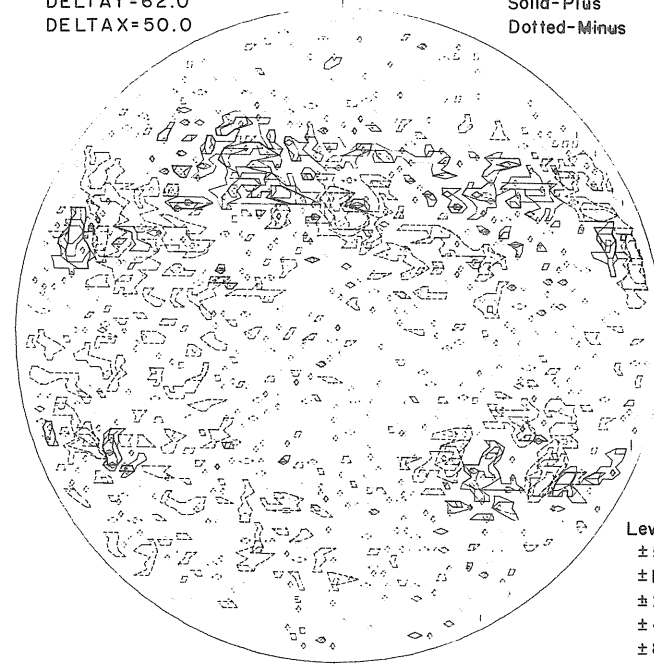
1400 UT

MT. WILSON MAGNETOGRAM

DELTAY=62.0
DELTAX=50.0

Solid-Plus
Dotted-Minus

Np

E  W

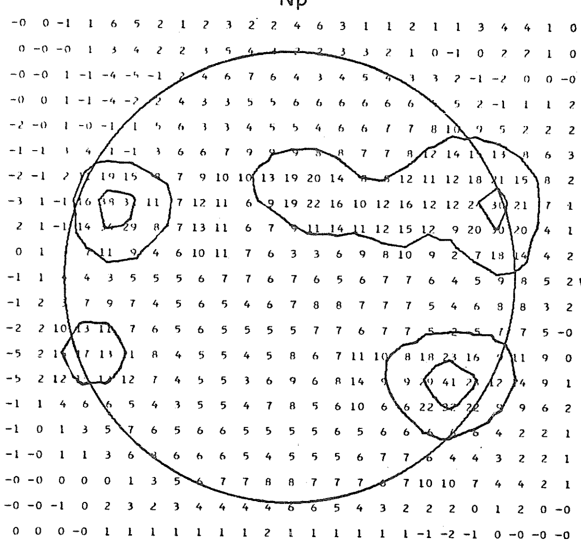
Sp

Levels
±5
±10
±20
±40
±80

17.66-19.08 UT

STANFORD 9.1 cm.

Np

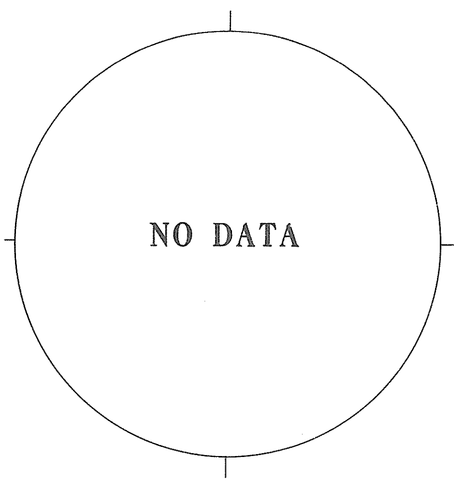
E  W

Sp

20-21 UT Brightness Unit 5,000° K

FLEURS, AUSTRALIA 21 cm.

N

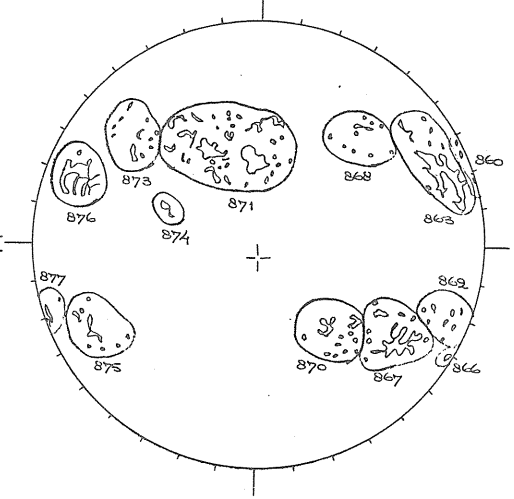
E  W

S

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

McMATH-HULBERT CALCIUM REPORT

Np

E  W

Sp

1301 UT

63-41-3.5
67-24-3.5
70-13-2.5
71-46-2.0
73-07-2.5
75-09-2.5
76-25-2.5

FINAL CORONAL LINE EMISSION INDICES

JUNE 1967

CMP June 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	78	90	22	35	64	83	24	47	x	x	x	x	x	x	x	x
2	100	115	12	16	81	120	24	51	x	x	x	x	x	x	x	x
3	x	x	x	x	x	x	x	x	21	26	x	x	109	166	x	x
4	x	x	x	x	x	x	x	x	19	23	11	14	104	166	18	41
5	x	x	x	x	x	x	x	x	36	45	13	23	82	101	12	15
6	x	x	x	x	x	x	x	x	19	22	10	13	64	85	13	16
7	x	x	x	x	x	x	x	x	34	52	x	x	83	113	x	x
8	37	59	3	17	33	42	10	35	55	89	21	41	79	128	13	23
9	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
11	x	x	x	x	x	x	x	x	39	55	x	x	47	64	x	x
12	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x	30	40	x	x	55	75	x	x
15	x	x	x	x	x	x	x	x	39	58	8	9	46	51	12	28
16	x	x	x	x	x	x	x	x	47	70	7	8	61	88	13	21
17	65	103	x	x	36	43	x	x	x	x	x	x	x	x	x	x
18	60	80	9	14	61	86	13	17	76	110	17	28	87	136	13	16
19	71	91	15	20	69	82	6	20	x	x	x	x	x	x	x	x
20	97	164	14	35	62	92	10	12	58	84	12	19	56	87	16	29
21	101	132	16	27	62	82	x	x	57	81	x	x	91	138	x	x
22	134	171	17	28	59	67	11	19	78	132	7	11	94	130	10	12
23	124	139	x	x	x	x	x	x	72	112	7	8	82	128	x	x
24	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
25	103	129	14	22	64	80	8	9	x	x	x	x	x	x	x	x
26	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
27	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
28	88	122	11	16	70	112	11	18	x	x	x	x	x	x	x	x
29	82	100	10	21	53	85	12	14	x	x	x	x	x	x	x	x
30	78	106	14	26	40	69	19	25	x	x	x	x	x	x	x	x

SUDDEN IONOSPHERIC DISTURBANCES

SHORT WAVE RADIO FADEOUTS
SUDDEN COSMIC NOISE ABSORPTION
SUDDEN ENHANCEMENTS OF ATMOSPHERICS

JUNE 1967

SUDDEN PHASE ANOMALIES
SUDDEN ENHANCEMENTS OF SIGNAL
SUDDEN FREQUENCY DEVIATIONS

JUNE 1967	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	STATIONS	KNOWN FLARE
01	0009	0030	0017	1					12			MA(NPG18-12)	0013
01	0013	0014	0013	1							03	HA(WWVH10-0.3)	
01	0013	0018	0013	1							02	BO(WWI9-0.2)	
			0015								02	BO(WWI9-0.2)	
01	0437	0529	0453	1					22			MA(NPG18-22)	0443E
01	0450	0510	0500	3	SL 1-							MA OK	
01	1214	1250	1232	1	G 1							MC	1155E
01	1918	1929	1923	1							06	BO(WWI9-0.6)	1913
01	1920	1950	1925	1					11			AN(NPM23-11)	
02	0342	0420	0352	1					20			MA(NPG18-20)	*
02	0344	0351	0348	1	S 1-							MA	
02	1428	1510	1441	1				2				A1	1407
02	1606	1608	1606	1							03	BO(WWI9-0.3)	1557
02	1710	1800		1	1							GS	1710E
02	2055	2105	2059	1	SL 1-							MC	2058
02	2058	2103	2059	5							03	BO(WWI9-0.3) HA(WWVH5-0.3)	
02	2304	2306	2305	5							03	HA(WWVH5-0.3, WWVH10-0.2) BO(WWI9-0.2)	2250
03	0135	0150	0145	1	SL 1-							OK	0120E
03	0239	0522	0312	1					55			MA(NPG18-55)	0243E
03	0243	0427	0320	1	SL 1							MA	
03	0547	0752	0624	1					99			MA(NPG18-108,NPM23-94)	0600E
03	0548	0649	0552	5	S 2							MA OK TO	
03	1535	1539	1536	1							02	BO(WWI9-0.2)	1529
03	1740	1744	1742	1							03	BO(WWI9-0.3)	1739
03	1820	1900	1844	3	G 1-							MC BE	1810
03	1928	1932	1929	1							03	BO(WWI9-0.3)	1928
04	0125	0145	0135	3	SL 1-							OK MA	0113
05	0005	0030	0010	5	SL 1-							OK AN	
05	0530	0540	0535	3	S 1-							OK MA	0445E
05	1840	1842	1840	1							03	BO(WWI9-0.3)	1838
05	1857	1922		1	1							MC	
05	1924	1945	1931	1						1-		A1	1900
05	1934	2000	1944	1					18			MA(NPG18-18,GBR16-15)	
05	1949	2139	2005	1			1					AN	
05	2305	2325	2315	3	SL 1-							OK MA	
06	0649		1115	1					99			AN(GBR16-144)	
06	1816	1825	1821	1	SL 1-							WS	
06	1821	1827	1823	1							03	BO(WWI9-0.3)	
14	2233	2242	2235	1		20	1-					MA	
14	2235	2320	2245	1					43			MA(NPG18-43)	
16	0400	0510	0420	1					45			MA(GBR16-45,NPM23-25, NPG18-30)	0407
16	0407	0419	0413	1	SL 1-							MA	
16	1333	1338	1334	1							03	BO(WWI9-0.3)	1333
16	1848	1935	1853	1					34			MA(NPG18-34)	1830
16	2018	2059	2026	1					58			MA(NPG18-58)	1955
17	2123	2240	2133	1					35			MA(NPG18-35)	2122
17	2125	2128	2125	1							05	BO(WWI9-0.5)	
17	2125	2158	2126	3	S 1-							WS MC	
18	0119	0143	0124	5		17	1-					MA AN	0119
18	0119	0153	0121	5	S 1							MA AN OK TO	
18	0120	0122	0121	1							08	HA(WWVH5-0.8, WWVH10-0.7)	
18	0120	0211	0125	5					99			MA(NPM23-125,GBR16-75, NPG18-120) AN(NPM23-40, WWVL19-20)	
18	1305	1335	1318	5	G 1							TR HU MC	1306
18	1310	1350	1317	3				1				A6 A1	
18	1551	1600	1553	1							08	BO(WWI9-0.8)	1551
18	1552	1630	1601	1				1-				A6	
20	2002	2030	2004	1	SL 1-							MC	2008
20	2010	2015	2010	1							07	BO(WWI9-0.7)	
22	1355	1358	1356	1							03	BO(WWI9-0.3)	1332
22	1741	1752		5	SL 1-							HU MC	1742
22	1851	1854	1853	5							03	HA(WWVH5-0.3) BO(WWI9-0.3)	1836E
23	0040	0128	0055	1					54			MA(GBR16-54)	0040
23	0043	0103	0050	5	SL 1							MA OK TO	
23	0048	0052	0048	1							03	BO(WWI9-0.3)	
23	1902	1914	1904	1							04	BO(WWI9-0.4)	1840
			1908								05	BO(WWI9-0.5)	
23	1903	1921	1909	5	SL 1							WS BE MC TR	
24	1244	1246	1245	1							03	BO(WWI9-0.3)	1242

Rome and Manila SCNA-SEA out of operation.

RIOMETER EVENTS

JUNE 1967

South Pole

30 Mc/s

JUNE 1967	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS	JUNE 1967	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS
01	0327	0619	0337	5	2	14	0053	1037	0246	6	10
02	0006	0611	0123	14	13	┌14	1923		2254		
02	1007	1339	1043	5	5	└15		1923		37	12
03	0101	0458	0103	19	4	16	0102	0658	0225	6	3
04	0203	0347	0252	6	9	16	0946	1901	1432	7	8
04	1210	1406	1349	3	2	17	0133	0824	0155	8	4
05	0007	0029	0018	5	2	17	1020	1656	1110	7	6
05	1245	1539	1413	5	2	┌17	2347				
06	0108	0358	0111	9	3	└18		0726	0111	9	13
┌06	2028					26	1107	1806	1503	13	31
└07		1240	0145	20	11	27	0034	0728	0115	0	90
08	1034	1822	1122	12	9	28	0021	0628	0055	17	8
┌08	2056		2059			28	1126	1239	1210	3	2
└09		0738		26	14	28	1836	1908	1856	3	3
09	1137	1510	1203	12	2	29	0702	0924	0711	4	5
┌09	2253		2337			29	1346	1355	1349	3	2
└10		0558		44	17	30	0023	0853	0757	9	14
11	0203	0437	0411	4	2	30	1108	1512	1149	5	11
11	1528	1814	1630	4	2	┌30	2137				
13	0050	0536	0246	9	2	└01		1448	1033	16	45

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

JUNE 1967

NRL SOLAR X-RAY DATA (PRELIMINARY)

OUTSTANDING EVENTS FOR JUNE 1967

DATE	STA	START UT	END UT	8-20 XE-3	0-8 XE-4	0-3 XE-5	COMMENTS
6 1	NRL	0824	0834	59.89D	111.03	12.13	
6 2	NRL	0939	0950	54.32	40.24	3.54	DECREASING
6 2	NRL	1123	1139	45.14	78.18	10.27	INCREASING
6 3	NRL	0350	0401	127.62	197.27	17.37	
6 3	NRL	0723	0733	184.17	401.99	38.16	
6 4	NRL	0838	0850	124.77	22.99	4.19	
6 4	NRL	1023	1037	106.95	30.65	6.29	
617	NRL	2159	2213	50.24	31.71	1.94E	
622	ABRD	0442	0453	015.30D	003.90D	.	
623	NRL	0045	0052	53.79	139.47	14.33	
624	NRL	0714	0720	15.77	10.01	0.50E	
625	ABRD	0124	0136	017.70D	030.50U	009.35U	
625	NRL	0130	0139	37.61	53.91	7.84	
625	ABRD	0311	0323	013.90U	009.30U	001.44E	
628	ABRD	2137	2149	014.70U	006.82U	001.50E	FLUX DECREASING
629	ABRD	0109	0121	033.10U	016.40U	001.50E	

DAILY AVERAGES FOR JUNE 1967

DATE	44-60 XE-1	8-20 XE-3	0-8 XE-4
6 1	2.80D	39.32	27.11
6 2	3.46D	33.82	20.45
6 3	4.92D	43.24	53.22
6 4	3.86	48.20	13.27
6 5	4.72		
616	3.28		2.18
617	2.76	11.95	3.49
618	2.02	12.68	4.33
619	2.15	12.63	6.49
620	2.04	9.75	3.94
621	1.97	7.97	3.15
622	2.30	11.95	8.66
623	2.12	10.60	4.79
624	2.08	8.91	3.46
625	2.05	9.37	3.71
626	2.05	10.32	4.04
627	2.08	9.91	3.23
628	2.24	12.88	5.48
629	2.12	11.25	2.92
630	2.11	10.96	3.81

SOLAR RADIATION MONITORING SATELLITE
X-RAY

JUNE 1967

OBSERVING TIMES FOR JUNE 1967

DATE	STA	START UT	END UT	ASPECT ANGLE
6 1	NRL	0306	0318	-8.6
6 1	NRL	0452	0503	-9.0
6 1	NRL	0637	0647	-8.7
6 1	NRL	0824	0834	-9.0
6 1	NRL	1010	1023	-9.4
6 1	NRL	1158	1210	-9.5
6 1	NRL	1339	1352	-10.0
6 2	NRL	0238	0249	-14.8
6 2	NRL	0753	0803	-15.0
6 2	NRL	0939	0950	-15.0
6 2	NRL	1123	1139	-15.5
6 2	NRL	1308	1323	-15.5
6 3	NRL	0206	0218	-21.4
6 3	NRL	0350	0401	-22.0
6 3	NRL	0535	0546	-22.0
6 3	NRL	0723	0733	-21.6
6 3	NRL	0909	0921	-21.5
6 3	NRL	1053	1109	-22.2
6 3	NRL	1238	1252	-24.2
6 4	NRL	0136	0146	-28.0
6 4	NRL	0321	0331	-28.4
6 4	NRL	0504	0515	-29.0
6 4	NRL	0652	0701	-29.0
6 4	NRL	0838	0850	-29.5
6 4	NRL	1023	1037	-29.5
6 4	NRL	1207	1222	-30.0
6 5	NRL	0108	0115	-35.4
6 5	NRL	0247	0258	-36.2
6 5	NRL	0433	0445	-35.6
6 5	NRL	0621	0631	-36.2
6 5	NRL	0808	0819	-36.4
6 5	NRL	0953	1006	-35.9
6 5	NRL	1138	1152	-37.2
616	NRL	0420	0425	-39.6
616	NRL	2228	2243	-34.5
617	NRL	0012	0027	-34.2
617	NRL	0200	0211	-33.6
617	NRL	0347	0357	-33.0
617	NRL	0532	0546	-32.8
617	NRL	0717	0732	-32.7
617	NRL	0903	0916	-31.8
617	NRL	2159	2213	-28.5
617	NRL	2354	2357	-27.5
618	NRL	0510	0515	-26.6
618	NRL	0647	0703	-26.6
618	NRL	0833	0846	-26.5
618	NRL	2129	2141	-22.5
618	NRL	2311	2327	-22.0
619	NRL	0058	0110	-21.5
619	NRL	0246	0257	-21.0
619	NRL	0434	0444	-20.7
619	NRL	0617	0633	-20.5
619	NRL	0801	0813	-20.5
619	NRL	2100	2111	-16.5
619	NRL	2241	2257	-16.0

DATE	STA	START UT	END UT	ASPECT ANGLE
620	NRL	0027	0041	-15.7
620	NRL	0216	0225	-15.4
620	NRL	0402	0412	-15.3
620	NRL	0546	0600	-15.3
620	NRL	0731	0741	-15.3
620	NRL	0918	0923	-15.3
620	NRL	2029	2040	-12.4
620	NRL	2211	2226	-12.1
620	NRL	2356	0007	-11.6
621	NRL	0145	0153	-11.5
621	NRL	0333	0340	-11.5
621	ABRD	0513	0525	-10.5
621	NRL	0516	0530	-11.5
621	ABRD	0658	0708	-11.0
621	NRL	0700	0711	-11.5
621	NRL	2003	2009	-9.1
621	NRL	2142	2156	-9.0
621	ABRD	2325	2335	-08.5
621	NRL	2326	2340	-8.5
622	ABRD	0110	0122	-08.2
622	NRL	0113	0124	-8.7
622	NRL	0301	0312	-8.9
622	ABRD	0442	0453	-08.2
622	NRL	0446	0459	-9.0
622	ABRD	0628	0641	-08.2
622	ABRD	0713	0725	-08.2
622	NRL	1932	1938	-6.5
622	NRL	2111	2125	-7.0
622	NRL	2256	2309	-7.0
623	NRL	0045	0052	-7.0
623	NRL	0232	0242	-7.2
623	NRL	0416	0428	-8.2
623	NRL	0600	0609	-8.2
623	NRL	2041	2055	-8.0
623	ABRD	2225	2238	-07.8
623	NRL	2227	2239	-7.5
624	ABRD	0009	0022	-07.8
624	NRL	0012	0024	-8.0
624	ABRD	0155	0207	-07.5
624	NRL	0345	0357	-9.0
624	NRL	0530	0539	-9.5
624	NRL	0714	0720	-10.0
624	NRL	2010	2024	-9.6
624	NRL	2154	2209	-9.6
624	ABRD	2155	2204	-12.6
624	ABRD	2338	2351	-13.0
624	NRL	2342	2354	-10.0
625	ABRD	0124	0136	-12.3
625	NRL	0130	0139	-10.7
625	ABRD	0311	0323	-11.8
625	NRL	0315	0324	-11.0
625	ABRD	0456	0507	-11.4
625	NRL	0500	0509	-11.6
625	NRL	0644	0649	-11.8
625	NRL	2124	2138	-12.5
625	ABRD	2125	2136	-12.9
625	ABRD	2308	2319	-13.1
625	NRL	2320	2323	-12.8

DATE	STA	START UT	END UT	ASPECT ANGLE
626	ABRD	0241	0253	-14.4
626	NRL	0254	0258	-14.5
626	ABRD	0426	0438	-14.8
626	NRL	0428	0438	-14.4
626	NRL	0614	0619	-15.0
626	NRL	1911	1923	-16.0
626	NRL	2053	2056	-16.0
626	ABRD	2056	2106	-16.4
626	ABRD	2238	2251	-16.4
626	NRL	2240	2253	-16.0
627	ABRD	0023	0035	-16.8
627	NRL	0028	0038	-16.9
627	ABRD	0211	0222	-16.8
627	NRL	0213	0226	-17.6
627	ABRD	0356	0408	-18.3
627	NRL	0358	0409	-17.5
627	NRL	0543	0549	-18.5
627	NRL	1842	1852	-18.5
627	NRL	2023	2038	-19.0
627	ABRD	2026	2036	-19.3
627	ABRD	2208	2220	-19.4
627	NRL	2209	2222	-19.5
627	ABRD	2358	0006	-19.4
628	NRL	0000	0008	-20.0
628	ABRD	0139	0152	-19.9
628	NRL	0144	0152	-20.0
628	NRL	0328	0340	-20.5
628	ABRD	0330	0337	-20.4
628	ABRD	0511	0519	-21.0
628	NRL	0513	0521	-21.5
628	NRL	1812	1821	-20.2
628	NRL	1952	2007	-20.4
628	ABRD	1955	2003	-21.3
628	ABRD	2137	2149	-20.6
628	NRL	2138	2145	-20.8
628	ABRD	2322	2334	-21.0
629	ABRD	0109	0121	-21.3
629	ABRD	0256	0307	-21.8
629	NRL	0300	0310	-22.4
629	ABRD	0441	0449	-21.6
629	NRL	0442	0450	-22.1
629	NRL	1742	1751	-19.8
629	NRL	1922	1938	-20.0
629	ABRD	2107	2119	-19.5
629	NRL	2112	2120	-19.6
629	ABRD	2251	2303	-19.7
629	NRL	2258	2304	-20.0
630	ABRD	0039	0050	-19.6
630	NRL	0043	0052	-20.2
630	ABRD	0225	0236	-20.0
630	NRL	0228	0239	-20.4
630	ABRD	0411	0420	-19.8
630	NRL	0412	0420	-20.8
630	NRL	1853	1907	-16.5
630	NRL	2037	2052	-16.5
630	NRL	2224	2235	-16.0

COSMIC RAY INDICES
(Neutron Monitors)

JUNE 1967

JUNE 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	*	6489.6	3878.7	*
2		6542.3	3904.7	
3		6587.2	3936.8	
4		6619.6	3957.7	
5		6626.6	3966.7(36)	
6		6535.8	3958.7	
7		6440.2	3888.0	
8		6484.2	3902.0	
9		6504.5	3924.3	
10		6543.2	3945.9	
11		6599.5	3984.5	
12		6619.2	3994.1	
13		6624.7	4001.1	
14		6625.4	3996.8	
15		6580.3	3967.7	
16		6606.3	3970.2	
17		6608.0	3961.2	
18		6651.6	3978.5	
19		6666.1	3974.6	
20		6693.5	3997.7	
21		6697.0	4007.6	
22		6696.5	4023.7	
23		6704.7	4022.2	
24		6718.7	4039.3	
25		6669.4	4005.6	
26		6661.0	4000.1	
27		6604.5	3955.1	
28		6515.5	3899.9	
29		6501.9	3879.3	
30		6496.8	3877.9	

* The data for June 1967 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.

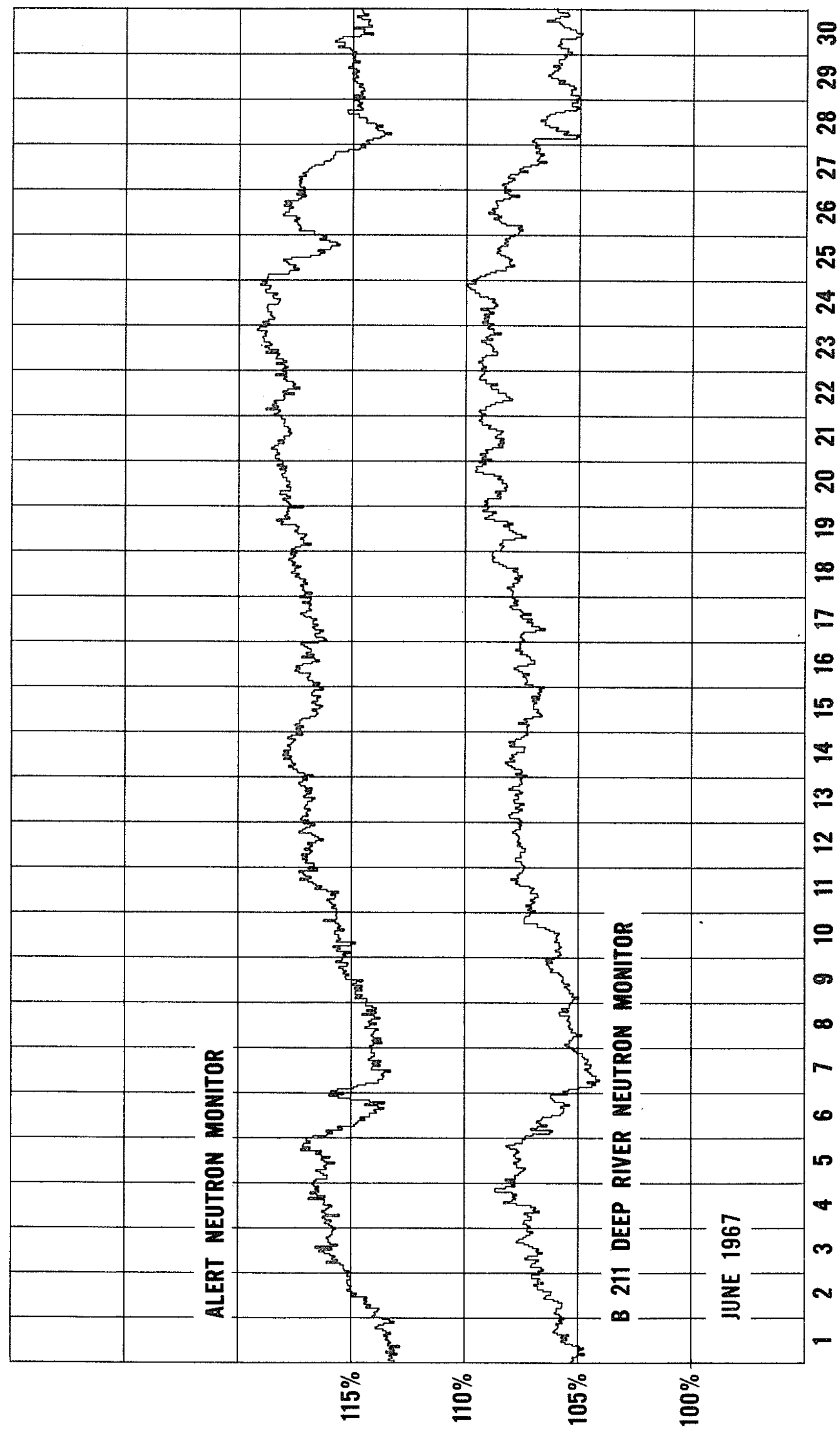
Deep River Neutron Monitor, Scaling Factor 300.

Climax IGC Station B305, Scaling Factor 100.

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

JUNE 1967

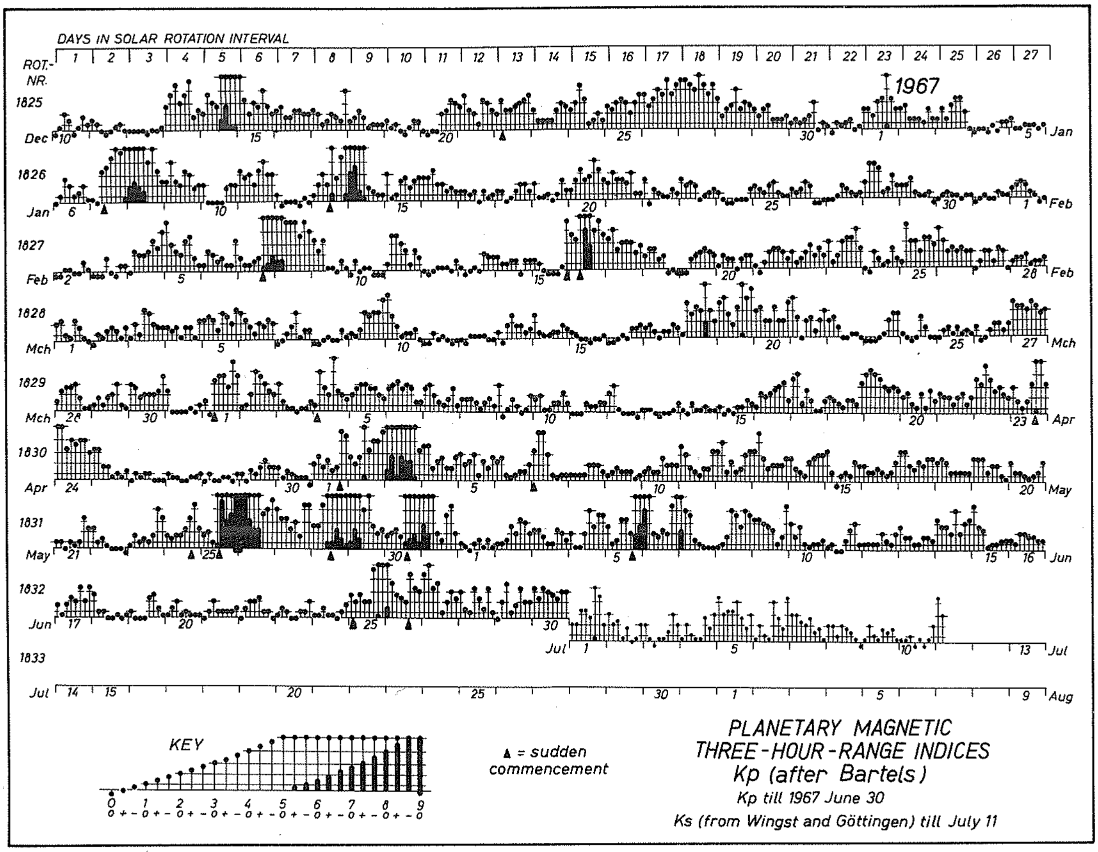


GEOMAGNETIC ACTIVITY INDICES

JUNE 1967

DAY		Kp THREE-HOUR RANGE INDICES 1	2	3	4	5	6	7	8	SUM	Ci	Cp	Ap
1	QQ	1	1-	0+	1	1+	1-	1+	1-	7	0.1	0.1	4
2		1	1	1+	3-	2	3+	3	2	16+	0.6	0.5	9
3		2+	2+	2-	1	1	2+	2	1+	14	0.4	0.3	7
4		2	1-	1-	2	4	3-	4-	4-	19+	0.9	0.7	13
5	D	3-	1	1+	3+	3+	2	6+	7	27	1.3	1.4	36
6	D	8	5	2	2-	2+	2	4+	5	30+	1.4	1.5	46
7		7-	4	4-	1+	1	1-	1-	1-	19-	1.1	1.1	22
8		1-	1	2-	4	4-	3-	4	4-	21+	1.1	0.9	15
9		3+	3+	3	3-	2+	1	2-	4+	22-	1.0	0.8	14
10		3	2-	3-	1	1-	1	1	1+	12+	0.3	0.3	7
11	Q	1-	1	0+	0+	1+	2+	3	1	10	0.3	0.2	6
12	Q	1	1	1	1	2	1+	1	2	10+	0.2	0.2	5
13		3-	2-	2-	1	1	2-	2-	1+	13-	0.4	0.3	6
14		3+	3-	3-	2	4	2	3	3+	23	0.9	0.8	14
15		4+	3-	2+	1-	1	1	1+	1+	15-	0.7	0.5	9
16		1+	1	2	2	2-	2-	1+	1+	12+	0.4	0.3	6
17		2-	1-	2-	2+	2	3+	2	3+	17	0.7	0.5	9
18	QQ	3-	1	1	0+	0+	1-	0+	1-	7	0.3	0.1	4
19	Q	1	0+	0+	0+	2+	3-	1+	1-	9	0.4	0.2	5
20	QQ	1-	1+	2	1-	1	1-	1-	1-	8-	0.1	0.1	4
21	Q	0+	1	2	1	1	1	1	1+	9-	0.3	0.1	4
22	Q	0+	1+	2	2	2+	1	1	0+	10+	0.4	0.2	5
23	QQ	1-	1+	1	0+	0+	1	1	2	8-	0.2	0.1	4
24	QQ	1-	1-	1+	1-	1-	0+	1	2-	7	0.2	0.1	4
25	D	3-	2	3-	2	2	5-	5+	5	26+	1.2	1.1	24
26	D	6	4-	3-	2+	2	4+	3+	3	27+	1.2	1.2	24
27	D	4+	5	3+	4-	1	2	3	2+	25-	1.1	1.0	19
28		3	1+	1	3+	2+	1+	3+	1	17-	0.8	0.5	10
29		0+	2	4-	1	2-	3+	2	2	16	0.7	0.5	9
30		3+	2+	3+	3	3-	2+	3	3	23	1.0	0.8	14
										MEAN	0.66	0.55	12

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

DAY	JULY 1966	AUG. 1966	SEPT. 1966	OCT. 1966	NOV. 1966	DEC. 1966	JAN. 1967	FEB. 1967	MAR. 1967	APR. 1967	MAY 1967	JUNE 1967
1	5	6	22	6	31	17	18	4	5	18	14	4
2	4	1	15	3	14	6	7	2	4	12	25	9
3	4	7	92	4	17	4	10	2	8	5	87	7
4	14	8	112	26	9	19	2	11	6	15	12	13
5	5	10	13	36	9	20	3	15	11	11	10	36
6	5	6	24	22	7	7	6	7	8	12	6	46
7	4	5	14	8	6	4	28	30	5	8	16	22
8	22	5	42	5	7	4	60	46	2	5	5	15
9	36	9	19	9	3	3	12	8	12	5	5	14
10	25	12	19	3	9	4	4	2	8	5	7	7
11	8	14	7	2	6	3	16	11	2	4	10	6
12	15	14	5	10	8	2	2	2	2	4	13	5
13	3	6	4	8	7	20	26	4	5	2	14	6
14	4	9	10	4	2	48	61	4	5	3	10	14
15	8	5	20	14	4	18	9	7	2	4	6	9
16	6	4	10	20	4	8	9	64	3	10	6	6
17	11	2	9	6	11	9	4	15	4	10	11	9
18	4	10	3	4	12	5	5	5	23	7	7	4
19	5	20	17	4	12	3	5	5	26	20	8	5
20	6	7	21	4	8	7	13	5	13	7	6	4
21	14	5	10	2	6	12	9	6	10	7	6	4
22	8	4	6	2	3	14	4	7	4	18	3	5
23	6	22	17	2	2	8	5	14	4	21	9	4
24	6	16	12	11	6	12	2	4	3	29	11	4
25	4	8	13	22	4	14	5	15	4	8	130	24
26	6	6	22	15	10	24	4	11	4	3	146	24
27	11	5	18	6	6	34	4	5	18	3	20	19
28	10	4	22	5	19	14	12	4	8	3	55	10
29	5	13	17	4	15	7	4		6	5	45	9
30	6	82	16	13	28	6	3		11	3	42	14
31	5	23		34		3	2		3		43	
MEAN	9	11	21	10	9	11	11	11	7	9	25	12

PRINCIPAL MAGNETIC STORMS

JUNE 1967

DATE 1967	STORM TIME		OBS'	GEO-MAG. LAT.	SUDDEN COMMENCEMENT				C FIGURE DEGREE OF AC-TIVITY	MAXIMAL ACTIVITY ON K-SCALE 0 TO 9			RANGES			STORM NUMBERS
						AMPLITUDES										
MO. DA.	UT START	UT END MO. DA. HR.			TYPE	D(')	H(γ)	Z(γ)		MO. DA.	3-HOUR PERIOD	K INDEX	D (')	H (γ)	Z (γ)	
06 04	09—	06 05 03	HRMN	33.3S	••	—	—	—	M	06 04	8	5	11	71	53	27
06 04	12—	06 07 14	COLL	64.6N	••	–	—	—	M	06 04	5,6,7	5	128	1260	710	28
										06 05	4,5					28
										06 06	1					28
										06 07	1,3					28
06 05	18—	06 07 08	SITK	60.0N	••	—	—	—	S	06 06	1	9	110	1120	820	28
	1914	06 06 05	WITT	54.1N	SC	– 5	+20	0	MS	06 05	7,8	6	40	340	170	28
										06 06	1					28
	18—	06 06 07	FRED	49.6N	••	—	—	—	S	06 06	1	8	79	292	269	28
	1916	06 07 11	BOUL	49.0N	SC	+ 3	+30	– 6	MS	06 06	1	7	50	260	340	28
	1915	06 07 12	IRKU	40.8N	SC	+ 2	+76	+11	MS	06 05	8	7	24	273	65	28
	1914	06 07 09	TUCS	40.4N	SC	0.5	35	0	MS	06 06	1	7	25	240	70	28
	19—	06 07 09	SJUA	29.9N	SC	—	—	—	MS	06 05	8	7	11	204	34	28
	1914	06 06 06	MBOR	21.3N	SC	– 2.7	+57	– 7.5	MS	06 05	8	6	54	130	30	28
	1914	06 06 08	HONO	21.1N	SC	+ 3	+30	+12	MS	06 05	8	6	16	240	38	28
										06 06	1	6				28
	1914	06 06 04	ALIB	9.5N	SC	– 0.7	48	– 5	MS	06 05	7,8	6	7	189	33	28
	1928U	06 06 05	HYDE	7.6N	SC	– 0.4	+45	+ 6	M	06 06	1	7	7	190	29	28
	1914	06 06 05	GUAM	4.0N	SC	02	27	09	MS	06 05	8,1	6	0	90	10	·28
	1914	06 06 04	ANNA	1.5N	SC	– 1.2	49	16	MS	– –	–	–	7	214	43	28
	11—	06 07 09	HUAN	0.6S	••	—	—	—	MS	06 05	7,8	6	8	423	27	28
	1914	06 06 04	TVAN	1.1S	SC	0.0	37	54	MS	– –	–	–	6	233	153	28
										06 06	1	6	3	248	55	28
	1915	06 06 15	PMOR	18.6S	SSC	1.5	26	27	MS	06 05	8	7	6	190	80	28
	1914	06 07 09	PILR	20.2S	SC	1.5	45	2	MS	06 05	8	7	10	270	35	28
	1915	06 06 11	HRMN	33.3S	SC	0 ·	+22	+12	MS	06 06	1	6	19	120	101	28
	1915	06 06 08	GNAN	43.2S	SSC	+ 6	+18	+31	MS	06 05	8	6	20	160	85	28
										06 06	1					28
	1916	06 06 03	AMBE	47.7S	SC	1	12	3	M	06 06	1	5	8	189	—	28
	1914	06 07 12	APIA	16.1S	SC	+ 0.3	+30	-11	MS	06 05	8					28
06 06	18—	06 07 08	FRED	49.6N	••	—	—	—	MS	06 07	1	6	28	113	85	28
	18—	06 07 09	HRMN	33.3S	••	—	—	—	M	06 07	1	5	18	40	62	28
06 07	23—	06 09 15	KGLN	57.3S	••	—	—	—	M	06 08	5,7	4	—	—	—	29
06 08	01—	06 09 14	HYDE	7.6N	••	—	—	—	M	06 08	4	5	6	116	28	29
	20—	06 08 22	HRMN	33.3S	BAY				M	06 08	7	5	8	45	34	29
06 09	22—	06 10 03	HRMN	33.3S	BAY				M	06 09	8	5	·8	42	41	30
06 25	0222	06 26 03	WITT	54.1N	SC	– 2	+35	0	M	06 25	6,7,8	5	30	210	120	31
										06 26	1					31
	0223	06 26 07	FRED	49.6N	SC *	2	26	3	M	06 25	8	5	24	111	92	31
	0221	06 27 12	BOUL	49.0N	SC *	+ 1	+25	– 3	M	06 25	8	5	30	110	120	31
										06 26	1	5				31
										06 27	2	5				31
	0929	06 26 19	IRKU	40.8N	SC *	– 1	+17	– 3	MS	06 25	7,8	6	21	155	35	31
	0221	06 27 10	TUCS	40.4N	SC	– 1	21	2	M	06 25	8	5	15	150	25	31
										06 26	1,2	5				31
										06 27	1,2	5				31
	0221	06 26 06	SJUA	29.9N	SC *	+ 1	+14	+ 4	MS	06 25	8	6	14	137	41	31
	0221	06 26 09	MBOR	21.3N	SC	+ 0.4	+22	– 3	M	06 25	7	5	31	100	—	31
	0221	06 27 12	HONO	21.1N	SC	+ 0	+ 5	+ 2	M	06 26	6	5	11	130	31	31
	0224	06 26 02	ALIB	9.5N	SC	– 0.4	21	– 4	M	06 25	7,8	5	7	164	63	31
	0221	06 26 07	HYDE	7.6N	SC	– 0.3	+19	+ 1	M	06 25	8	6	8	167	32	31
	0224	06 26 02	ANNA	1.5N	SC	– 0.5	23	12	M	– –	–	–	5	200	33	31
	0221	06 27 07	HUAN	0.6S	SSC	1	25	4	MS	06 26	6	6	8	354	49	31
	0224	06 26 02	TVAN	1.1S	SC *	+ 0.1	26	29	M	– –	–	–	5	210	83	31
	0220	06 27 12	APIA	16.1S	SC	+ 0	+12	– 3	M	06 25	8	5	5	128	40	31
	0220	06 28 15	PMOR	18.6S	SSC	0.3	18	19	M	06 26	6	5	5	117	46	31
										06 28	4	5				31
	1520	06 27 08	PILR	20.2S	SC	0.5	36	••	M	06 25	6	5	7	200	35	31
										06 26	1,6	5				31
										06 27	2	5				31
	0222	06 26 03	HRMN	33.3S	SC	+ 1	+14	+11	MS	06 25	7	6	17	118	98	31
	0223	06 26 09	KGLN	57.3S	SC	••	••	••	MS	06 26	1	6	—	—	—	31
06 25	0221	06 27 12	COLL	64.6N	SC *	– 3	-18	••	M	06 25	8	5	116	820	500	32
										06 26	4,6					32
										06 27	4					32
06 26	1459	06 27 08	MBOR	21.3N	SC	– 1.8	+40	-12	M	06 26	6	4	27	60	20	32
	1458	06 27 12	HYDE	7.6N	SC	– 0.7	+29	+ 3	M	06 26	6	5	6	57	17	32
	1458	06 26 18	GUAM	4.0N	SC	••	24	07	M	06 26	6	5	0	40	10	32
	1459	06 27 12	HRMN	33.3S						06 27	1	4				32
	1459	06 27 12	HRMN	33.3S	SC	0	+22	+15	M	06 26	6	4	11	54	40	32
	1459	06 28 12	KGLN	57.3S	SC	••	••	••	M	06 26	8	4	—	—	—	32
										06 27	1,2,7	4	—	—	—	32
										06 28	1	4	—	—	—	32

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

JUNE 1967

NORTH ATLANTIC, NORTH PACIFIC

JUN. 1967	WHOLE DAY INDICES			ADVANCE FORECASTS (Jc-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC 6-HOURLY QUALITY FIGURES				NORTH ATLANTIC SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF:				NORTH PACIFIC 6-HOURLY QUALITY FIGURES				GEOMAGNETIC INDICES K_{FR} HALF DAY		A_{FR}		K_{SI} HALF DAY		A_{SI}
	NORTH ATLANTIC	NORTH PACIFIC	AVERAGE HIGH LATITUDE		00 TO 06	06 TO 12	12 TO 18	18 TO 24	00	06	12	18	00 TO 06	06 TO 12	12 TO 18	18 TO 24	(1)	(2)	OB-SERVED	PRE-DICTED	(1)	(2)	
01	7-	6	6	6	7-	7-	6+	7-	6	6	6	7	6	6	6	6	1	2	4	11	0	1	2
02	7-	6	6	6	7-	7-	6+	6+	6	6	7	7	6	6	6	6	2	3	10	11	2	2	7
03	7-	6	6	7	7-	7-	6+	6+	7	7	7	7	6	6	5	6	2	2	8	9	2	1	6
04	7-	6	6	7	7-	7-	7-	6+	7	7	7	7	6	6	6	6	2	3	11	7	1	2	8
05	6	5	6	7	6+	5+	6+	6	7	6	6	6	6	5	5	5	2	(4)	27	7	2	(4)	22
06	5-	5	5	7	4	4	5+	6+	4	2	6	6	6	5	5	5	(4)	3	49	7	(4)	2	65
07	5	5	5	6	4+	4-	6	6+	5	4	6	6	5	5	5	6	(4)	1	18	11	(5)	0	31
08	6+	6	6	6	7-	6+	6+	6+	6	6	7	7	6	6	6	6	2	3	12	15	2	3	21
09	6	6	6	6	6	5+	6	6+	6	5	6	6	6	6	6	6	(4)	3	17	11	(4)	2	20
10	6+	6	6	6	6+	6-	6+	6+	6	5	6	7	6	6	6	6	2	2	8	11	3	0	7
11	7-	6	6	6	6+	7-	7-	7-	6	6	6	7	6	6	6	6	1	2	4	7	0	2	3
12	7-	6	6	7	7-	6+	7-	7-	6	6	7	7	6	6	6	6	1	2	5	7	1	1	4
13	6+	6	6	7	7-	6	6+	6+	6	6	7	7	6	6	6	6	2	2	6	7	2	1	6
14	6+	6	6	7	7-	6	7-	7-	7	6	7	7	6	6	5	6	(4)	3	20	7	3	3	15
15	6+	6	6	6	6	6+	7-	7-	7	6	6	7	5	6	6	6	3	2	10	13	2	1	7
16	7-	6	6	6	7-	6+	7-	7-	7	6	7	7	6	6	6	6	2	2	6	11	2	1	5
17	7-	6	6	6	6+	6+	7-	7-	7	6	7	7	6	6	6	6	2	3	10	7	2	2	8
18	7-	6	6	7	7-	7-	7-	7-	7	6	7	7	6	6	6	6	1	1	3	7	1	0	3
19	7-	6	6	7	7-	7-	7-	7-	7	7	7	7	6	6	6	6	1	2	5	11	0	2	3
20	7-	6	6	7	7-	7-	7-	7-	7	7	7	7	6	6	6	6	2	1	4	11	1	1	3
21	7-	6	6	7	7-	6+	7-	7-	7	7	7	7	6	6	6	6	1	1	4	13	0	0	2
22	7-	6	6	7	7-	6+	7-	7-	7	7	7	7	6	6	6	6	2	2	6	5	1	1	4
23	7-	6	6	7	7-	7-	7-	7-	6	6	7	7	6	6	6	6	1	1	3	9	1	1	2
24	7-	6	6	7	7-	7-	7-	7-	6	6	7	7	6	6	6	6	1	1	4	15	1	1	3
25	7-	6	6	6	7	7-	7-	6	6	6	7	6	6	6	6	5	3	(4)	22	20	2	3	15
26	6	6	6	6	6-	5+	7-	6+	5	5	7	6	6	5	6	6	3	3	18	20	(4)	2	15
27	6	6	6	6	6	6-	6+	6+	6	5	7	7	5	5	5	6	(4)	2	20	9	(4)	2	22
28	6+	6	6	7	7-	6-	7-	7-	6	6	7	7	6	6	6	6	2	2	9	9	2	2	12
29	7-	6	6	6	7-	6+	6+	7-	7	6	7	7	6	6	6	6	2	3	10	6	2	2	8
30	6+	6	6	7	6+	6	7-	7-	7	6	7	7	6	6	6	6	3	3	15	6	3	2	12
QUIET			P	13					14	16	21	23											
			S	16					14	12	9	7											
			U	1					0	0	0	0											
			F	0					0	0	0	0											
DISTURBED			P	0					1	1	0	0											
			S	0					1	0	0	0											
			U	0					0	1	0	0											
			F	0					0	0	0	0											

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

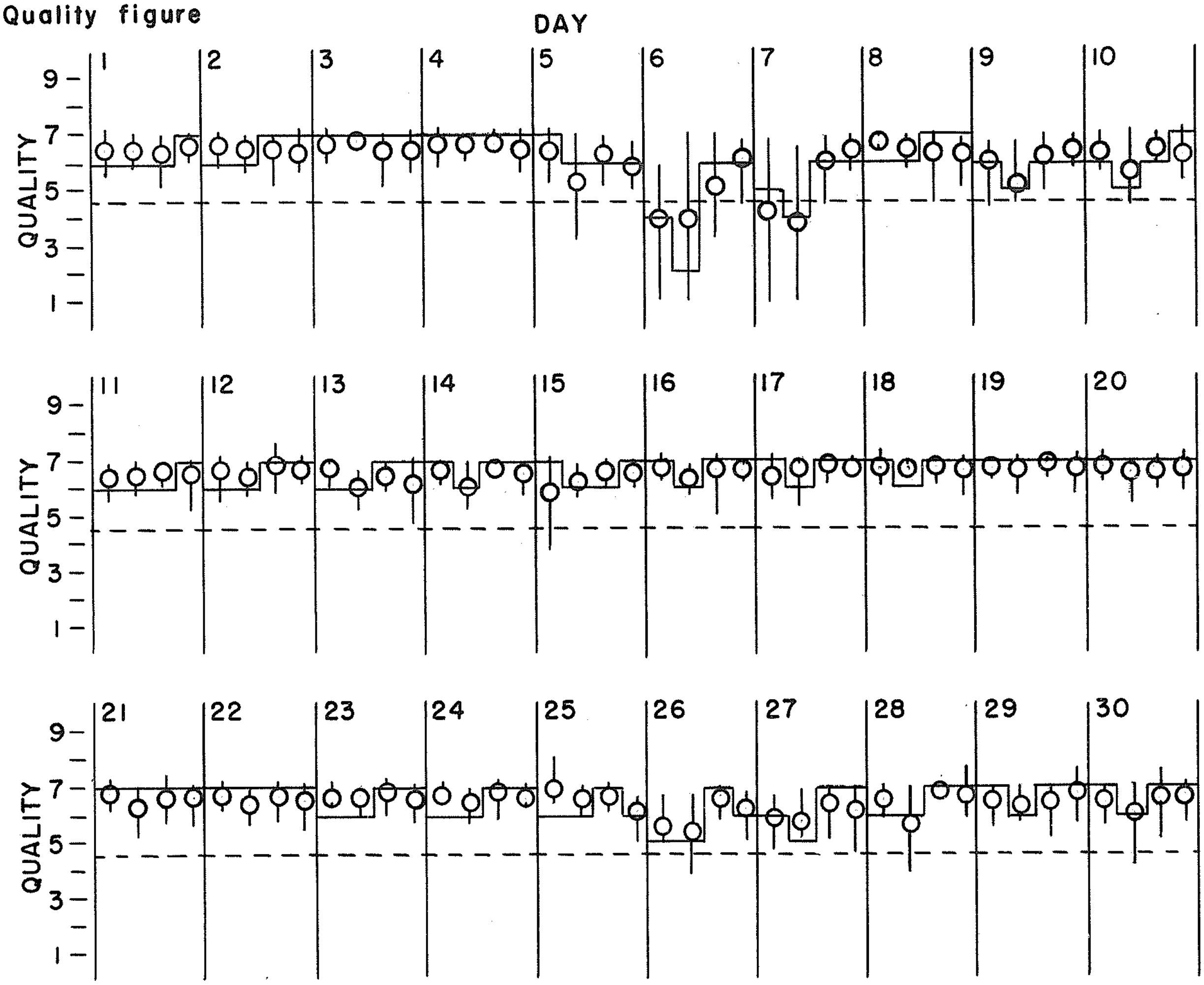
2) THE PREDICTED AFR INDICES ARE ISSUED EACH WEDNESDAY FOR THE COMING SEVEN DAYS. THE VALUE FOR THE FIRST DAY OF EACH PREDICTION PERIOD IS UNDERSCORED.

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

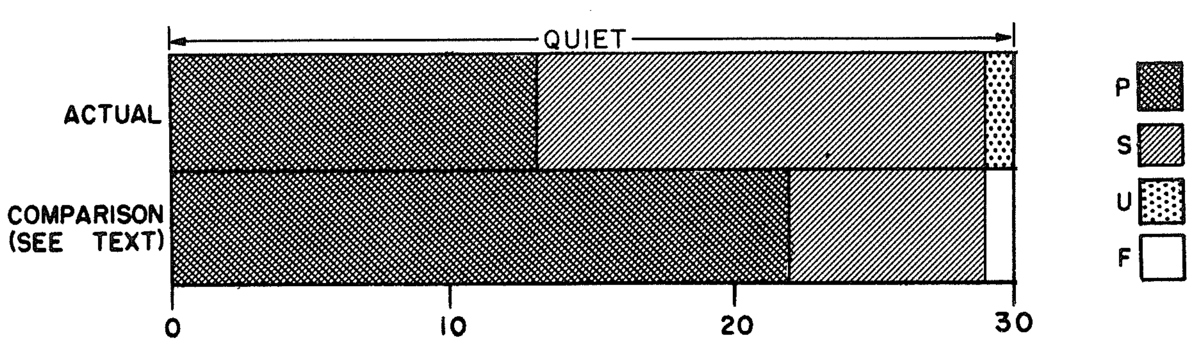
JUNE 1967

NORTH ATLANTIC

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

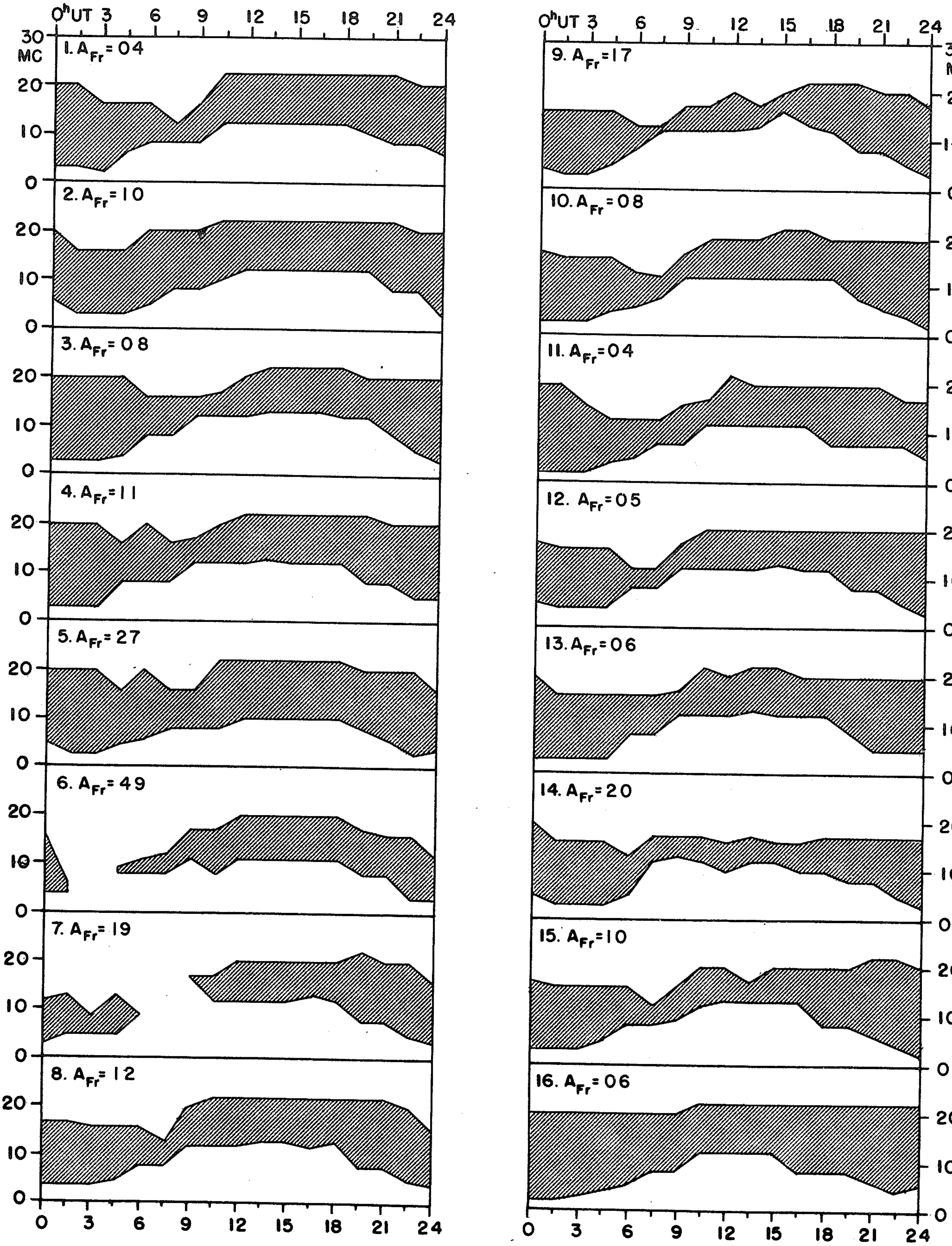


HIGH LATITUDE



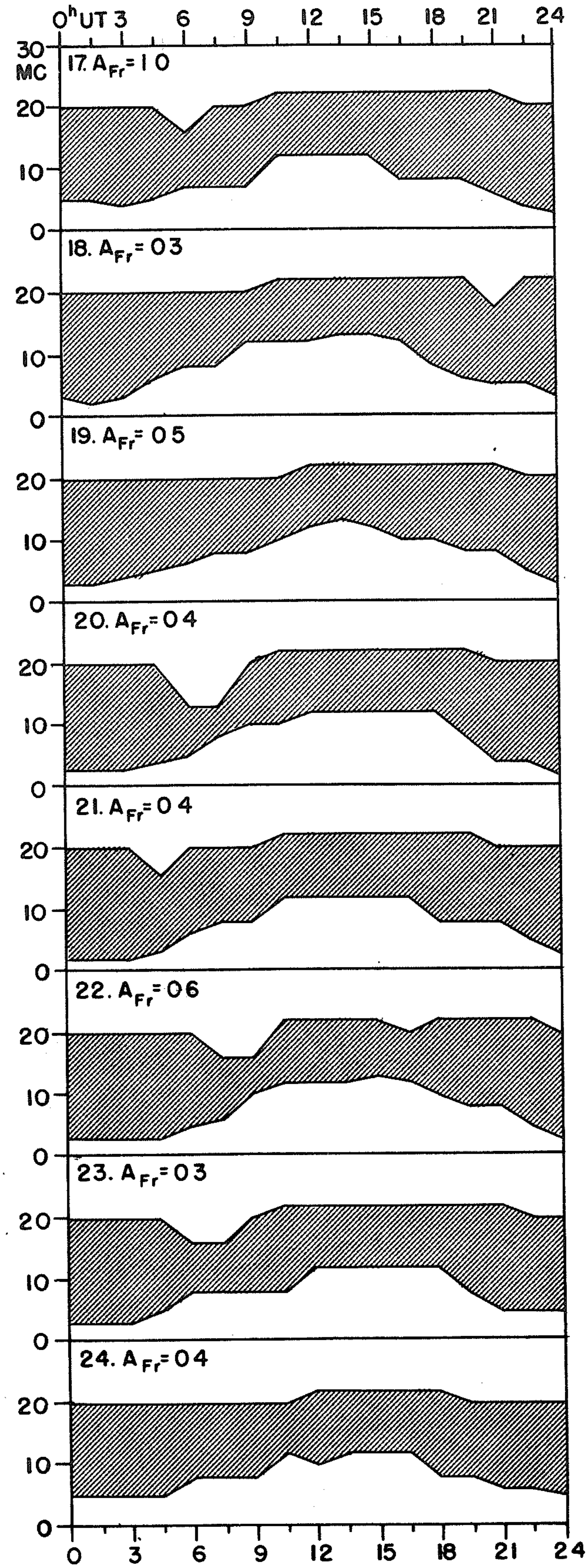
TRANSMISSION FREQUENCY RANGES--NORTH ATLANTIC PATH

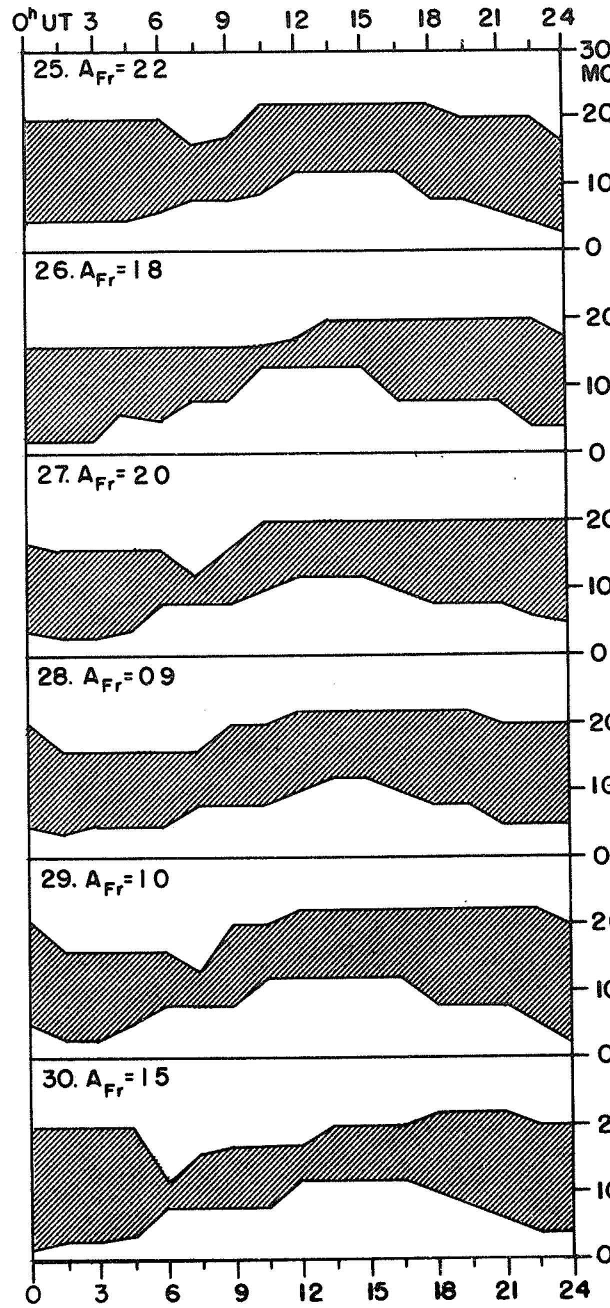
JUNE 1967



TRANSMISSION FREQUENCY RANGES--NORTH ATLANTIC PATH

JUNE 1967





Adapted from Observations by Deutsches Bundespost

Table of Contents
for February 1967 Data

SOLAR FLARES
REVISED

FEBRUARY 1967

OBSERV-ATORY	DATE	START	END	MAX. PHASE	LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
	1967 FEB																		
GRP 3138	01	0000	0009	0004	S25	W32	.588	8667	29.6	9	1-				.35				1 1 1
SACP	01	0000E	0009	0004	S25	W32	.588	8667	29.6	9D	-F		C		.39	.42			
GRP 3139	01	0308	0318	0313	S24	W35	.617	8667	29.5	10	1-				.50				1 1 1
MITK	01	0308	0318	0313	S24	W35	.617	8667	29.5	10	-F		C	0313	.72	.90			E
GRP 3140	01	0414	0428		N19	W01	.423	8670	1.1	14	1-				.81				1 1 1
MANI	01	0414E	0428D		N19	W01	.423	8670	1.1	14D	-F	2		0415	.88	.98			
GRP 3141	01	0446	0500	0449	N28	E78	.991	8680	7.0	14	1				.79				1 1 1
MITK	01	0446	0500	0449	N28	E78	.991	8680	7.0	14	1F		C	0449	1.13				
GRP 3142	01	0537	0545		S27	W31	.590	8667	29.9	8	1-				.42				2 2 2
MANI	01	0537E	0545		S29	W26	.554	8667	30.3	8D	-F	2		0539	.52	.63			
MITK	01	0538E	0545		S25	W35	.623	8667	29.6	7D	-F		C	0538	.52	.70			D
GRP 3143	01	0538	0546		S35	W30	.643	8667	30.0	8	1-				.50				1 1 1
MITK	01	0538E	0546		S35	W30	.643	8667	30.0	8D	-F		C	0538	.72	1.60			DG
GRP 3144	01	0649	0655	0651	S29	W27	.564	8667	30.3	6	1-				.56				1 1 1
MANI	01	0649	0655D	0651	S29	W27	.564	8667	30.3	6D	-N	2		0651	.62	.73			
GRP 3145	01	0745	0805		S25	W37	.645	8667	29.5	20	1-								1 1 0
ISTA	01	0745E	0805		S25	W37	.645	8667	29.5	20D	1N								
GRP 3146	01	0750	0805		N25	W90	1.001	8659	25.6	15	1-								1 1 0
ISTA	01	0750	0805		N25	W90	1.001	8659	25.6	15	1N								
GRP 3147	01	0750	0820		S22	E33	.583	8673	3.8	30	1-								1 1 0
ISTA	01	0750	0820		S22	E33	.583	8673	3.8	30	-F								
GRP 3148	01	0835	0855		N13	E13	.390	8671	2.3	20	1-				1.00				3 3 2
ISTA	01	0835E	0855		N14	E12	.395	8671	2.3	20D	-N								
CAPS	01	0840E	0850D		N12	E12	.368	8671	2.3	10D	-N	2		0844	1.10	1.20		164	CE
MANI	01	0844E	0848D		N14	E14	.412	8671	2.4	4D	-N	1		0846	.93	.93			
GRP 3149	01	1038	1101		N27	E65	.945	8680	6.3	23	1-								1 1 0
KHAR	01	1038	1101D		N27	E65	.945	8680	6.3	23D	1F		V	1051			2.60		DK
GRP 3150	01	1332	1414		N13	W90	1.000	8659	25.8	42	1				.24				1 1 1
HUAN	01	1332E	1414D		N13	W90	1.000	8659	25.8	42D	-F	1	P	1334	.36				E
GRP 3151	01	1723	1750		N17	E13	.444	8671	2.7	27	1-				.86				1 1 1
HUAN	01	1723E	1750D		N17	E13	.444	8671	2.7	27D	-F	1	P	1734	.95	.95			E
GRP 3152	01	1739	1746		S23	W79	.976	8661	26.8	7	1				.15				1 1 1
HUAN	01	1739	1746		S23	W79	.976	8661	26.8	7	-F	1	C	1743	.21				D
GRP 3153	01	2221	2250	2234	S21	E24	.464	8673	3.7	29	1-				.47				4 4 4
HALE	01	2215E	2232D		S20	E24	.457	8673	3.7	17D	-N	1	P	2230	.21	.21			
LOCK	01	2223E	2242	2233	S22	E23	.460	8673	3.7	19D	-F		C	2233	.50	.60		10	
SACP	01	2224	2300	2235	S21	E23	.452	8673	3.7	36	-F		C		.67	.68			
HUAN	01	2233E	2248		S21	E24	.464	8673	3.7	15D	-N	1	P	2234	.57	.58			E
GRP 3154	01	2320	2322	2321	N28	E60	.921	8680	6.5	2	1-				.18				1 1 1
HALE	01	2320	2322	2321	N28	E60	.921	8680	6.5	2	-N	2	C	2321	.15				
GRP 3155	02	0030	0041	0035	S22	E23	.459	8673	3.7	11	1-				.40				1 1 1
LOCK	02	0030	0041	0035	S22	E23	.459	8673	3.7	11	-F		C	0035	.40	.40		10	
GRP 3156	02	0110	0125	0112	S26	E21	.473	8673	3.6	15	1-				1.37				1 1 1
MITK	02	0110	0125	0112	S26	E21	.473	8673	3.6	15	1F		C	0112	1.86	2.10			F
GRP 3157	02	0145	0226	0154	N29	E62	.934	8680	6.7	41	1-				1.37				2 1 1
MITK	02	0145	0228	0154	N29	E62	.934	8680	6.7	43	1N		C	0154	1.86				F
MANI	02	0211E	0223		N29	E62	.934	8680	6.7	12D	1N	2		0213	.98	2.10			
GRP 3158	02	0248	0311	0254	S24	E18	.421	8673	3.5	23	1-				.25				1 1 1
HALE	02	0248E	0311	0254	S24	E18	.421	8673	3.5	23D	-N	2	P	0254	.21	.21			
GRP 3159	02	0311	0328	0317	N29	E60	.924	8680	6.6	17	1-				.18				1 1 1
HALE	02	0311	0328	0317	N29	E60	.924	8680	6.6	17	-N	2	P	0317	.15				
GRP 3160	02	0314	0344	0338	S15	E52	.786	8681	6.0	30	1-				.18				1 1 1
HALE	02	0314	0344D	0338	S15	E52	.786	8681	6.0	30D	-N	2	P	0338	.15	.30			
GRP 3161	02	0316	0344	0318	N10	E72	.959	8682	7.5	28	1-				.31				1 1 1
HALE	02	0316	0344D	0318	N10	E72	.959	8682	7.5	28D	-N	2	P	0318	.26				
	02	1200	1215	NO FLARE PATROL															
	02	1225	1300	NO FLARE PATROL															
	02	1310	1415	NO FLARE PATROL															
	02	1420	1445	NO FLARE PATROL															
	02	1450	1510	NO FLARE PATROL															
GRP 3162	02	1549	1557	1551	S26	W57	.846	8667	29.4	8	1-				.42				1 1 1
HUAN	02	1549	1557	1551	S26	W57	.846	8667	29.4	8	-N	1	C	1551	.50	.68			D
GRP 3163	02	1603	1645	1605	S25	W57	.844	8667	29.4	42	1-				.82				1 1 1
LOCK	02	1603E	1645	1605U	S25	W57	.844	8667	29.4	42D	-F		C	1605	.80	1.40		10	H
GRP 3164	02	1818	1827	1820	S25	W57	.844	8667	29.5	9	1-				.40				1 1 1
LOCK	02	1818	1827	1820	S25	W57	.844	8667	29.5	9	-F		C	1820	.40	.70		10	H
GRP 3165	02	1857	1911	1859	S24	E28	.534	8681	4.9	14	1-				.40				1 1 1
LOCK	02	1857	1911	1859	S24	E28	.534	8681	4.9	14	-F		C	1859	.40	.50		10	
GRP 3166	02	1918	1938	1923	N21	E34	.682	8680	5.4	20	1-				.25				1 1 1
HALE	02	1918	1938	1923U	N21	E34	.682	8680	5.4	20	-N	1	C	1923	.21	.30			

SOLAR FLARES

REVISED

FEBRUARY 1967

OBSERVATORY	DATE 1967 FEB	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP 3167	02	1945	2014	1951	N27	E47	.831	8680	6.3	29	1-				.25				1 1 1
HALE	02	1945	2014	1951	N27	E47	.831	8680	6.3	29	-N	2	C	1951	.21	.40			
GRP 3168	02	2144	2202		N27	E47	.831	8680	6.4	18	1-				.25				1 1 1
HALE	02	2144E	2202		N27	E47	.831	8680	6.4	18D	-N	2	P	2144	.21	.40			
GRP 3169	02	2222	2230	2224	S25	W57	.844	8667	29.7	8	1-				.50				1 1 1
LOCK	02	2222	2230	2224	S25	W57	.844	8667	29.7	8	-F		C	2224	.50	.90		10	H
GRP 3170	02	2335	2355	2340	S25	W60	.869	8667	29.5	20	1-				.31				1 1 1
HALE	02	2335	2355	2340	S25	W60	.869	8667	29.5	20	-N	2	C	2340	.26	.50			
GRP 3171	03	0002	0050	0009	S28	E08	.393	8673	3.6	48	1-				.80				1 1 1
HALE	03	0002	0050	0009	S28	E08	.393	8673	3.6	48	-N	1	C	0009	.67	.70			F
GRP 3172	03	0241	0317	0248	S28	W53	.816	8667	30.1	36	1-				.25				1 1 1
HALE	03	0241	0317	0248	S28	W53	.816	8667	30.1	36	-N	1	C	0248	.21	.40			H
GRP 3173	03	0257	0403	0310	N11	E58	.868	8682	7.5	66	2-				2.26				4 4 4
HALE	03	0252	0407D	0307	N13	E62	.902	8682	7.8	75D	1B	2	P	0307	1.65	3.80			F
CRON	03	0301E	0400	0321	N08	E51	.796	8682	7.0	59D	1N		C		1.90	3.20		200	
KODA	03	0302	0352	0304	N09	E61	.888	8682	7.7	50	2B		C	0344	2.58	5.50	2.68		K
MANI	03	0305E	0412D	0312	N13	E59	.880	8682	7.6	67D	2B	2		0312	2.78	5.24			
GRP 3174	03	0708	0709		N15	E65	.926	8682	8.2	1	1-				.64				1 1 1
MANI	03	0708E	0709D		N15	E65	.926	8682	8.2	1D	-N	1		0708	.77	1.64			
GRP 3175	03	1743	1751	1744	S27	W69	.931	8667	29.6	8	1-				.25				1 1 1
HALE	03	1743	1751	1744	S27	W69	.931	8667	29.6	8	-B	2	C	1744	.21				H
GRP 3176	03	1820	1830	1823	N30	E32	.736	8680	6.2	10	1-				.47				2 2 2
LOCK	03	1819	1830	1822	N29	E32	.728	8680	6.2	11	-F		C	1822	.50	.80		10	
MCMA	03	1820	1830	1823	N30	E32	.736	8680	6.2	10	-N		C	1823	.31	.40			D
GRP 3177	03	1848	1901	1853	N20	E83	.997	8684	10.0	13	1-				.23				2 2 2
HALE	03	1848	1901	1851	N19	E76	.981	8684	9.5	13	-N	1	C	1851	.21				
HOUS	03	1849E	1901	1855	N20	E89	1.000	8684	10.5	12D	-N		C		.20	.70		200	
GRP 3178	03	1900	1913	1902	S25	W71	.941	8667	29.5	13	1-				.29				2 2 2
HALE	03	1859	1912	1902	S25	W73	.951	8667	29.3	13	-N	1	C	1902	.31				
HOUS	03	1901	1913	1902	S24	W69	.929	8667	29.6	12	-N		C		.20	.50		200	H
GRP 3179	03	1926	2006	1933	N12	E50	.798	8682	7.6	40	1-				.43				4 4 4
HOUS	03	1925	2013	1936	N12	E48	.778	8682	7.4	48	-N		C		.40	.60		200	
LOCK	03	1925	2000	1932	N11	E52	.814	8682	7.7	35	-F		C	1932	.40	.70		10	
HALE	03	1925	2005	1932	N13	E49	.791	8682	7.5	40	-N	1	C	1932	.41	.70			
MCMA	03	1928	2010D	1932	N12	E50	.798	8682	7.6	42D	-N		C	1932	.31	.50			D
GRP 3180	03	1945	2000	1950	N19	E75	.978	8684	9.4	15	1-				.35				1 1 1
LOCK	03	1945	2000	1950	N19	E75	.978	8684	9.4	15	-F		C	1950	.40	1.10		10	H
GRP 3181	03	2009	2018	2013	N32	E24	.701	8680	5.6	9	1-				.45				2 2 2
LOCK	03	2008	2019	2012	N36	E25	.746	8680	5.7	11	-F		C	2012	.50	.70		10	
HOUS	03	2009	2017	2013	N27	E23	.642	8680	5.6	8	-N		C		.40	.50		200	HL
GRP 3182	03	2034	2102	2050	S27	E82	.985	8685	10.0	28	1-				.52				1 1 1
LOCK	03	2034	2102	2050	S27	E82	.985	8685	10.0	28	1F		C	2050	.60	2.10		10	HJ
GRP 3183	03	2050	2104	2051	N19	E48	.804	8682	7.5	14	1-				.49				1 1 1
HALE	03	2050	2104	2051	N19	E48	.804	8682	7.5	14	-N	1	C	2051	.41	.70			
GRP 3184	03	2130	2146	2137	N20	E83	.997	8684	10.1	16	1-				.26				2 2 2
HOUS	03	2129	2145	2137	N20	E89	1.000	8684	10.6	16	-N		C		.20	.70		200	
HALE	03	2131	2147	2137	N19	E76	.981	8684	9.6	16	-N	1	C	2137	.26				
GRP 3185	03	2158	2214	2203	N20	E81	.994	8684	10.0	16	1-				.28				2 2 2
HALE	03	2155	2213	2200	N20	E79	.990	8684	9.8	18	-N	1	C	2200	.26				
LOCK	03	2200	2215	2206	N19	E82	.995	8684	10.1	15	-F		C	2206	.30	1.10		10	H
GRP 3186	03	2220	2330	2235	S26	E90	.999	8685	10.7	70	1-				.25				1 1 1
LOCK	03	2220	2330	2235	S26	E90	.999	8685	10.7	70	-F		C	2235	.30	1.10		10	K
GRP 3187	04	0011	0020	0011	N29	E30	.714	8680	6.3	9	1-				.74				2 1 1
HALE	04	0006E	0017D	0011	N28	E29	.697	8680	6.2	11D	-B	2	P	0011	.62	.90			
IKOM	04	0015	0020D		N29	E30	.714	8680	6.3	5D	-F		V	0015	.41	.60			D
GRP 3188	04	0251	0314	0259	S25	W04	.328	8673	3.8	23	1-				.49				1 1 1
HALE	04	0251	0314	0259	S25	W04	.328	8673	3.8	23	-N	2	C	0259	.41	.41			
GRP 3189	04	0305	0346	0313	N19	E76	.981	8684	9.8	41	1-				.49				1 1 1
HALE	04	0305	0346	0313	N19	E76	.981	8684	9.8	41	-N	1	C	0313	.41				
GRP 3190	04	0332	0355	0341	S27	W02	.356	8673	4.0	23	1-				.43				1 1 1
HALE	04	0332	0355	0341	S27	W02	.356	8673	4.0	23	-N	3	C	0341	.36	.40			F
GRP 3191	04	0438	0440		N20	W43	.763	8670	1.0	2	1-				.64				1 1 1
MANI	04	0438E	0440D		N20	W43	.763	8670	1.0	2D	-F	1		0439	.72	1.12			
GRP 3192	04	1017	1035	1019	N26	E29	.679	8680	6.6	18	1-				.40				2 2 2
UCCL	04	1017	1030	1019	N25	E30	.679	8680	6.7	13	-B		C	1019	.77	1.50			FIJU
MONT	04	1018E	1040D		N27	E28	.680	8680	6.5	22D	-N		C	1022	.26				O
GRP 3193	04	1132	1145	1136	N20	E73	.972	8684	10.0	13	1-				.49				2 2 2
MONT	04	1132	1145	1136	N20	E70	.959	8684	9.7	13	-B		C	1136	.26				OD
UCCL	04	1135E	1142D		N20	E75	.979	8684	10.1	7D	1N		P	1137	1.03				EHY
	04	1300	1320	NO FLARE PATROL															

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OBSERV-ATORY	DATE 1967 FEB	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION — MIN.	IM-POR-TANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
GRP 3194	04	1458	1511	1504	N18	E70	.957	8684	9.9	13	1-				1.51				1 1 1
LOCA	04	1458	1511	1504	N18	E70	.957	8684	9.9	13	1N		V	1504	1.68				
GRP 3195	04	1641	1902	1700	N11	E40	.687	8682	7.7	141	2				5.02				3 2 2
LOCK	04	1640	1915	1700	N11	E40	.687	8682	7.7	155	2B		C	1700	4.00	5.60		30	L
SACP	04	1642	1835	1658	N11	E40	.687	8682	7.7	113	2B		C		5.81	6.70			
HALE	04	1708E	1917	1718	N10	E39	.670	8682	7.6	129D	1B	2	P	1718	3.30	4.40			F
GRP 3196	04	1657	1710	1700	S21	W14	.343	8673	3.7	13	1-				.50				1 1 1
LOCK	04	1657	1710	1700	S21	W14	.343	8673	3.7	13	-F		C	1700	.50	.60		10	
GRP 3197	04	1759	1813	1801	N21	E64	.930	8684	9.5	14	1-				.18				1 1 1
HALE	04	1759	1813	1801	N21	E64	.930	8684	9.5	14	-N	2	C	1801	.15				
GRP 3198	04	2137	2210	2146	N19	E57	.879	8684	9.2	33	1-				.25				1 1 1
HALE	04	2137	2210	2146	N19	E57	.879	8684	9.2	33	-F	1	C	2146	.21	.40			
GRP 3199	04	2232	2247	2237	N21	E61	.912	8684	9.5	15	1-				.43				1 1 1
HALE	04	2232	2247	2237	N21	E61	.912	8684	9.5	15	-N	1	C	2237	.36				
GRP 3200	04	2250	2308	2255	N32	E21	.684	8680	6.5	18	1-				.68				1 1 1
HALE	04	2250	2308	2255	N32	E21	.684	8680	6.5	18	-F	1	C	2255	.57	.80			F
GRP 3201	04	2323	2334	2326	S18	W15	.322	8673	3.8	11	1-				.47				2 2 2
HALE	04	2323	2334	2325	S22	W16	.376	8673	3.8	11	-N	1	C	2325	.36	.40			
LOCK	04	2323	2334	2326	S14	W14	.273	8673	3.9	11	-F		C	2326	.50	.60		10	
GRP 3202	05	0057	0156	0120	N18	E59	.891	8684	9.5	59	1-				.25				1 1 1
HALE	05	0057	0156	0120U	N18	E59	.891	8684	9.5	59	-N	2	C	0120	.21	.50			
GRP 3203	05	0326	0410	0330	N21	E55	.870	8684	9.3	44	1-				1.00				1 1 1
HALE	05	0326	0410D	0330U	N21	E55	.870	8684	9.3	44D	-N	1	P	0330	.83	1.70			
GRP 3204	05	0408	0434	0413	N14	W37	.668	8671	2.4	26	1-				1.61				4 4 4
HALE	05	0405	0410D	0408U	N15	W36	.663	8671	2.5	5D	-N	1	P	0408	1.03	1.40			F
MITK	05	0408	0428	0411	N14	W37	.668	8671	2.4	20	1N		C	0411	2.78	3.70			F
KODA	05	0410	0420	0416	N13	W38	.674	8671	2.3	10	1F		C	0415	2.58	3.50	1.72		E
CRON	05	0412E	0453	0415	N14	W37	.668	8671	2.4	41D	-N		C		.40	.50		200	H
GRP 3205	05	0625	0640	0628	N15	W45	.759	8670	1.9	15	1-				.20				1 1 1
CRON	05	0625	0640	0628	N15	W45	.759	8670	1.9	15	-N		C		.20	.30		200	
GRP 3206	05	0750	0802	0752	N15	W45	.759	8670	2.0	12	1-				.20				1 1 1
CRON	05	0750	0802	0752	N15	W45	.759	8670	2.0	12	-N		C		.20	.30		200	
	05	1115	1130	NO FLARE PATROL															
	05	1200	1405	NO FLARE PATROL															
GRP 3207	05	1410	1545	1410	S18	E13	.297	8681	6.6	95	1				3.85				2 1 1
SACP	05	1410E	1555U	1410E	S18	E13	.297	8681	6.6	105U	1N		C		3.93	3.87			
LOCA	05	1430E	1535		S18	E12	.285	8681	6.5	65D	2N		S	1430	6.30	6.60			
GRP 3208	05	1430	1520		S25	W02	.322	8681	5.5	50	1-				2.18				1 1 1
LOCA	05	1430E	1520		S25	W02	.322	8681	5.5	50D	1N		S	1430	2.73	2.90			G
GRP 3209	05	1552	1610	1555	N22	E50	.834	8684	9.4	18	1-				1.13				2 1 1
SACP	05	1552	1610	1555	N21	E49	.822	8684	9.3	18	-N		C		1.25	1.71			
HUAN	05	1600E	1605D		N23	E50	.838	8684	9.4	5D	-F	1	P	1601	.25	.34			D
GRP 3210	05	1619	1625	1621	N28	E09	.579	8680	6.4	6	1-				.29				1 1 1
LOCK	05	1619	1625	1621	N28	E09	.579	8680	6.4	6	-F		C	1621	.30	.40		10	H
GRP 3211	05	1817	1900	1824	N18	E57	.877	8684	10.0	43	1-				.30				3 3 3
LOCK	05	1816	1900	1824	N17	E57	.874	8684	10.0	44	-F		C	1824	.50	1.00		10	
HALE	05	1818	1823D	1823U	N19	E57	.879	8684	10.0	5D	-N	1	P	1823	.15	.30			
HUAN	05	1818	1845D		N19	E57	.879	8684	10.0	27D	-N	1	P	1825	.25	.32			D
GRP 3212	05	1922	1933	1925	N17	W49	.806	8671	2.1	11	1-				.36				2 2 2
HALE	05	1922	1933	1925	N20	W47	.800	8671	2.3	11	-N	2	C	1925	.31	.50			F
HUAN	05	1923E	1929D		N13	W51	.811	8671	2.0	6D	-N	1	P	1925	.41	.53			D
GRP 3213	05	1922	2004	1929	N20	E53	.851	8684	9.8	42	1-				.52				2 2 2
HALE	05	1922	2004D	1929	N20	E52	.843	8684	9.7	42D	-N	2	P	1929	.52	1.00			
HUAN	05	1923E	1950D		N19	E53	.848	8684	9.8	33D	-F	1	P	1950	.52	.77			D
GRP 3214	05	1935	2045	1950	N15	E33	.630	8682	8.3	70	1-				.29				1 1 1
LOCK	05	1935	2045	1950	N15	E33	.630	8682	8.3	70	-F		C	1950	.30	.40		10	
GRP 3215	05	2100	2135	2115	N17	E57	.874	8684	10.2	35	1-				.40				1 1 1
LOCK	05	2100	2135	2115	N17	E57	.874	8684	10.1	35	-F		C	2115	.40	.80		10	J
GRP 3216	05	2224	2245	2231	S04	E04	.080	8681	6.2	21	1-				.31				1 1 1
HALE	05	2224	2245D	2231	S04	E04	.080	8681	6.2	21D	-N	2	P	2231	.26	.30			
GRP 3217	05	2347	0008	2342	N20	E62	.916	8684	10.6	21	1-				.49				2 1 1
SACP	05	2338	2355U	2342	N22	E67	.948	8684	11.0	17U	-N		C		.54	1.04			
LOCK	05	2355	0020	0010	N17	E57	.874	8684	10.3	25	-F		C	0010	.50	1.00		10	
GRP 3218	06	0010	0020		N17	E54	.850	8684	10.1	10	1-				.47				1 1 1
IKOM	06	0010	0020D		N17	E54	.850	8684	10.1	10D	-F		V	0010	.83	1.50			E
GRP 3219	06	0207	0212		N21	E90	1.001	8687	12.8	5	1-				.16				1 1 1
MANI	06	0207E	0212		N21	E90	1.001	8687	12.8	5D	-F	2		0208	.21	.65			
GRP 3220	06	0300	0320	0304	N20	E90	1.001	8687	12.9	20	1-				.32				1 1 1
MANI	06	0300E	0320	0304	N20	E90	1.001	8687	12.9	20D	-N	2		0304	.41	1.28			
GRP 3221	06	0300	0325		N21	E39	.732	8684	9.1	25	1-				.23				1 1 1
MANI	06	0300E	0325		N21	E39	.732	8684	9.1	25D	-F	2		0302	.26	.39			

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OBSERVATORY	DATE 1967 FEB	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
GRP 3222	06	0645	0718	0649	N07	E24	.460	8682	8.1	33	1-				.79				2 2 2
CRON	06	0644	0733	0650	N03	E26	.463	8682	8.2	49	-N		C		1.00	1.10		200	EIL
MITK	06	0645	0702	0647	N10	E22	.459	8682	7.9	17	-F		C	0647	.83	.90			
GRP 3223	06	0818	0930		N20	E43	.764	8684	9.6	72	1				1.03				1 1 1
MONT	06	0818E	0930		N20	E43	.764	8684	9.6	72D	1F		C		1.03				O
GRP 3224	06	0900	0940		N19	E90	1.001	8687	13.1	40	1				.37				1 1 1
ARCE	06	0900E	0940D		N19	E90	1.001	8687	13.1	40D	1N		C	0930	.37	2.10			
GRP 3225	06	1221	1259	1225	N23	E38	.735	8684	9.4	38	1-				.52				2 2 1
ONDE	06	1219E	1257		N22	E37	.719	8684	9.3	38D	-N		V	1220			2.10		CD
MONT	06	1222	1300D	1225	N23	E39	.744	8684	9.4	38D	-N		C	1225	.52				OD
GRP 3226	06	1352	1357	1354	N19	E39	.720	8684	9.5	5	1-				.88				1 1 1
MEUD	06	1352	1357	1354	N19	E39	.720	8684	9.5	5	-N		C	1354	1.03	1.40			D
GRP 3227	06	1424	1450	1430	N19	E39	.720	8684	9.5	26	1-				.88				3 2 2
MCMA	06	1423	1448	1435	N19	E38	.710	8684	9.4	25	-N		C	1435	.83	1.20			EK
MEUD	06	1424	1427D	1425	N19	E39	.720	8684	9.5	3D	-N		C	1425	.72	1.00			D
HUAN	06	1444E	1451D		N19	E41	.739	8684	9.7	7D	-F	1	P	1450	.45	.55			E
	06	1605	1610	NO FLARE PATROL															
GRP 3228	06	1833	1933	1849	N26	E84	.999	8687	13.1	60	2-				1.75				4 3 2
LOCK	06	1825	2015	1849	N25	E83	.998	8687	13.0	110	2N		C	1849	2.80	9.50		20	H
MCMA	06	1838E	1915D	1844	N25	E90	1.001	8687	13.5	37D	2N		C	1844					A
HALE	06	1840	1918	1853U	N28	E73	.979	8687	12.3	38	1B	1	C	1853	.72				F
HUAN	06	1853E	1907		N27	E88	1.000	8687	13.4	14D	-F	1	P	1853	.88				E
GRP 3229	06	1851	1919	1853	N24	E41	.768	8684	9.9	28	1-				.49				1 1 1
HALE	06	1851	1919D	1853	N24	E41	.768	8684	9.9	28D	-N	1	P	1853	.41	.60			
GRP 3230	06	1926	1945	1932	N19	E39	.720	8684	9.7	19	1-				.82				2 2 2
HUAN	06	1926	1931D		N18	E39	.714	8684	9.7	5D	-N	1	P	1930	.70	.84			
MCMA	06	1926	1945D	1932	N19	E38	.710	8684	9.7	19D	-N		C	1932	.72	1.00			E
GRP 3231	06	2023	2045	2030	N20	E81	.994	8687	12.9	22	1				.68				2 2 2
LOCK	06	2020	2045	2030	N19	E83	.997	8687	13.1	25	1F		C	2030	.70	2.40		10	H
HALE	06	2025	2045	2030	N21	E79	.991	8687	12.8	20	1N	1	C	2030	.62				
GRP 3232	06	2028	2050	2035	N23	E39	.744	8684	9.8	22	1-				.82				1 1 1
LOCK	06	2028	2050	2035	N23	E39	.744	8684	9.8	22	-F		C	2035	.80	1.20		10	L
GRP 3233	06	2250	0025	2320	S26	W05	.346	8681	6.6	95	1-				.29				1 1 1
LOCK	06	2250	0025D	2320	S26	W05	.346	8681	6.6	95D	-F		C	2320	.30	.30		10	L
GRP 3234	06	2337	2345	2340	N20	E83	.997	8687	13.2	8	1-				.25				1 1 1
LOCK	06	2337	2345	2340	N20	E83	.997	8687	13.2	8	-F		C	2340	.30	1.00		10	H
GRP 3235	07	0128	0154	0137	N18	E35	.673	8684	9.7	26	1+				1.50				4 3 3
CRON	07	0109	0157	0135	N17	E34	.655	8684	9.6	48	1N		C		1.90	2.50		200	
MITK	07	0130	0150	0139	N18	E34	.663	8684	9.6	20	1B		C	0139	1.55	2.10			E
MANI	07	0130E	0155	0136	N20	E33	.667	8684	9.5	25D	1B	3		0136	1.65	2.26			
IKOM	07	0144	0153		N17	E40	.719	8684	10.1	9	1N		V	0144	2.89	4.00		120	E
GRP 3236	07	0245	0258	0248	N21	E81	.994	8687	13.2	13	1-				.28				1 1 1
MANI	07	0245	0258	0248	N21	E81	.994	8687	13.2	13	-F	2		0248	.36	.99			
GRP 3237	07	0341	0414	0354	N19	E34	.670	8684	9.7	33	1-				.91				3 3 3
HALE	07	0338	0410D	0357U	N18	E33	.652	8684	9.6	32D	-B	2	P	0357	1.13	1.50			EF
MITK	07	0341	0410	0353	N18	E33	.652	8684	9.6	29	-N		C	0353	1.44	1.90			E
MANI	07	0344	0417	0353	N20	E35	.687	8684	9.8	33	-B	2		0353	.41	.56			
GRP 3238	07	0500	0540		N17	E35	.666	8684	9.8	40	1-				.62				1 1 1
IKOM	07	0500E	0540		N17	E35	.666	8684	9.8	40D	-N		V	0533	1.03	1.30			D
GRP 3239	07	0624	0640	0631	N18	E32	.642	8684	9.7	16	1				2.10				2 2 2
SIBE	07	0623	0633D	0629	N18	E33	.652	8684	9.7	10D	1F		C	0629	2.85	3.70		75	E
MITK	07	0625	0640	0632	N17	E31	.623	8684	9.6	15	1B		C	0632	2.27	3.00			E
GRP 3240	07	0720	0755		N16	E30	.605	8684	9.6	35	2-								1 1 0
ONDE	07	0720E	0755		N16	E30	.605	8684	9.6	35D	2F		V	0735			1.50		BJ
GRP 3241	07	0800	0828		S22	W68	.922	8673	2.2	28	1-								1 1 0
ONDE	07	0800E	0828		S22	W68	.922	8673	2.2	28D	-F		V						D
GRP 3242	07	0924	0939		N17	E33	.645	8684	9.9	15	1-				1.95				1 1 1
ARCE	07	0924E	0939D		N17	E33	.645	8684	9.9	15D	1F		C	0925	1.85	2.30			
GRP 3243	07	0939	0949	0939	S30	E40	.699	8685	10.4	10	1-				.31				1 1 1
ARCE	07	0939	0949	0939	S30	E40	.699	8685	10.4	10	-N		C	0939	.31	.40			D
GRP 3244	07	0943	1006	0944	N14	E10	.386	8682	8.2	23	1-				1.15				2 2 1
WEND	07	0942	1011		N14	E10	.386	8682	8.2	29	-N								
ARCE	07	0944	1000	0944	N13	E10	.371	8682	8.2	16	-N		C	0944	1.06	1.20			H
GRP 3245	07	0950	1003	0956	N19	E77	.985	8687	13.2	13	1-				1.04				2 2 2
WEND	07	0945E	1003D		N18	E74	.974	8687	13.0	18D	1F		V		4.13				
ARCE	07	0954	1000D	0956	N19	E80	.992	8687	13.4	6D	-N		C	0956	.43	1.40			
GRP 3246	07	1025	1125	1037	N19	E30	.629	8684	9.7	60	2				6.39				2 1 1
WEND	07	1025	1125	1037	N18	E29	.610	8684	9.6	60	2B		V		8.25				
CAPS	07	1054E	1111D		N19	E30	.629	8684	9.7	17D	1N	1							F
GRP 3247	07	1124	1134		N18	E74	.974	8687	13.0	10	1-								1 1 0
WEND	07	1124	1134		N18	E74	.974	8687	13.0	10	-N								

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OBSERVATORY	DATE 1967 FEB	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION MCMATH PLAGE REGION	LOCATION 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 3248	07	1136	1212		N18	E74	.974	8687	13.0	36	1+				2.00				1 1 1
WEND	07	1136	1212		N18	E74	.974	8687	13.0	36	2N		V		5.16				
GRP 3249	07	1148	1223		N15	E11	.407	8682	8.3	35	1-				1.24				1 1 1
WEND	07	1148	1223		N15	E11	.407	8682	8.3	35	1N		V		3.09				
GRP 3250	07	1200	1210		N19	E35	.680	8684	10.1	10	1-								1 1 0
WEND	07	1200	1210		N19	E35	.680	8684	10.1	10	-N								
GRP 3251	07	1255	1333		N17	E73	.969	8687	13.0	38	1+				2.82				1 1 1
WEND	07	1255E	1333D		N17	E73	.969	8687	13.0	38D	2F		V		6.19				
GRP 3252	07	1456	1530	1458	N20	E26	.598	8684	9.6	34	1-				.87				1 1 1
MCMA	07	1456	1530	1458	N20	E26	.598	8684	9.6	34	-N		C	1458	.62	.80			E
GRP 3253	07	1507	1529	1509	N25	E84	.999	8687	13.9	22	1-				1.69				2 2 1
SACP	07	1506	1533	1510	N26	E83	.998	8687	13.9	27	1N		C		1.88				
MCMA	07	1507	1525	1508	N24	E85	.999	8687	14.0	18	-N		C	1508					EH
GRP 3254	07	1556	1632	1600	N19	E28	.609	8684	9.8	36	1-				1.11				2 2 2
MCMA	07	1555	1634	1559	N20	E28	.618	8684	9.8	39	-B		C	1559	.72	.90			E
SACP	07	1557	1629	1600	N18	E28	.600	8684	9.8	32	-N		C		1.34	1.45			
GRP 3255	07	1633	1640	1635	S26	E37	.647	8685	10.5	7	1-				.49				1 1 1
SACP	07	1633	1640	1635	S26	E37	.647	8685	10.5	7	-F		C		.54	.60			
GRP 3256	07	1710	1749	1719	N19	E26	.589	8684	9.7	39	1-				.49				1 1 1
HALE	07	1710E	1749	1719	N19	E26	.589	8684	9.7	39D	-N	2	P	1719	.41	.50			E
GRP 3257	07	1804	1811	1805	N19	E25	.579	8684	9.6	7	1-				1.12				4 4 4
SACP	07	1801	1811	1803	N18	E26	.580	8684	9.7	10	-N		C		.90	.95			
MCMA	07	1802	1855	1806	N20	E27	.608	8684	9.8	53	-B		C	1806	1.34	1.60			E
LOCK	07	1802	1830	1804	N18	E26	.580	8684	9.7	28	-N		C	1804	1.20	1.40		20	
HALE	07	1804	1825	1806	N18	E23	.550	8684	9.5	21	-N	2	C	1806	.41	.50			IJ
GRP 3258	07	1812	1840	1820	N19	E25	.579	8684	9.6	28	1-				.94				3 2 2
MCMA	07	1802	1855	1818	N20	E27	.608	8684	9.8	53									
HOUS	07	1810	1845	1823	N21	E23	.581	8684	9.5	35	-N		C		.60	.70		200	I
SACP	07	1815	1846	1820	N18	E25	.569	8684	9.6	31	-N		C		1.42	1.52			
GRP 3259	07	1910	1931	1921	N19	E25	.579	8684	9.7	21	1-				1.10				1 1 1
HOUS	07	1910	1931	1921	N19	E25	.579	8684	9.7	21	-N		C		1.10	1.30		200	I
GRP 3260	07	1939	2017	1945	N19	E25	.579	8684	9.7	38	1-				1.04				5 4 4
MCMA	07	1938	2010D	1945	N20	E27	.608	8684	9.8	32D	-N		C	1945	.93	1.20			E
HALE	07	1938	2032	1946	N19	E22	.550	8684	9.5	54	-N	1	C	1946	.62	.70			
HOUS	07	1939	2015	1944	N20	E26	.598	8684	9.8	36	-N		C		1.30	1.70		200	I
LOCK	07	1941	1952	1945	N18	E26	.580	8684	9.8	11	-F		C	1945	.80	1.00		10	
HUAN	07	2004E	2030		N19	E25	.579	8684	9.7	26D	1F	1	P	2004	3.20	3.42			U
GRP 3261	07	1955	2012	1958	N22	E67	.948	8687	12.9	17	1-				.25				1 1 1
HALE	07	1955	2012	1958	N22	E67	.948	8687	12.9	17	-N	1	C	1958	.21				
GRP 3262	07	2015	2032	2017	N29	W23	.666	8680	6.1	17	1-				.37				1 1 1
HALE	07	2015	2032	2017	N29	W23	.666	8680	6.1	17	-N	1	C	2017	.31	.40			C
GRP 3263	07	2051	2113	2058	N18	E26	.580	8684	9.8	22	1-				.94				4 4 4
LOCK	07	2050	2117	2103	N18	E26	.580	8684	9.8	27	-F		C	2103	1.00	1.20		10	
HALE	07	2051	2116	2057	N18	E24	.559	8684	9.7	25	-B	2	C	2057	.93	1.10			EF
HOUS	07	2052	2105	2055	N18	E26	.580	8684	9.8	13	-N		C		.90	1.10		200	I
HUAN	07	2052	2100D		N19	E27	.599	8684	9.9	8D	-B	1	P	2056	.75	.80			
GRP 3264	07	2136	2153	2144	S27	E37	.652	8685	10.7	17	1-				.20				1 1 1
HOUS	07	2136	2153	2144	S27	E37	.652	8685	10.7	17	-F		C		.20	.30		100	I
GRP 3265	07	2204	2220	2212	S27	E37	.652	8685	10.7	16	1-				.20				1 1 1
HOUS	07	2204	2220	2212	S27	E37	.652	8685	10.7	16	-F		C		.20	.30		100	I
GRP 3266	07	2225	2238	2231	N21	E72	.969	8687	13.3	13	1-				.54				1 1 1
LOCK	07	2225	2238	2231	N21	E72	.969	8687	13.3	13	-F		C	2231	.60	1.70		10	
GRP 3267	07	2231	2250	2237	N19	E24	.569	8684	9.7	19	1-				.68				3 3 3
HOUS	07	2230	2246	2236	N20	E24	.580	8684	9.7	16	-N		C		.60	.70		200	G
HALE	07	2231	2248	2234	N18	E23	.550	8684	9.7	17	-N	1	C	2234	.52	.60			
LOCK	07	2232	2255	2240	N18	E26	.580	8684	9.9	23	-N		C	2240	.80	1.00		10	
GRP 3268	07	2313	2335	2317	N18	E25	.569	8684	9.8	22	1-				.60				2 2 2
HALE	07	2313	2324D	2316	N18	E23	.550	8684	9.7	11D	-N	1	P	2316	.41	.50			
LOCK	07	2313	2335	2317	N18	E26	.580	8684	9.9	22	-N		C	2317	.70	.80		10	
GRP 3269	08	0042	0103	0046	N18	E22	.540	8684	9.7	21	1-				1.73				1 1 1
HALE	08	0042	0103	0046	N18	E22	.540	8684	9.7	21	-F	2	C	0046	1.44	1.70			
GRP 3270	08	0158	0205	0200	N15	E00	.366	8682	8.1	7	1-				.37				1 1 1
HALE	08	0158	0205	0200	N15	E00	.366	8682	8.1	7	-N	2	C	0200	.31	.31			
GRP 3271	08	0233	0340	0241	N23	E65	.940	8687	13.0	67	1				1.61				1 1 1
HALE	08	0233	0340U	0241	N23	E65	.940	8687	13.0	67U	1N	1	P	0241	1.34				F
GRP 3272	08	0302	0304	0303	N13	W02	.335	8682	8.0	2	1-				.62				1 1 1
HALE	08	0302	0304	0303	N13	W02	.335	8682	8.0	2	-F	1	C	0303	.52	.52			
GRP 3273	08	0303	0327	0309	N19	E18	.516	8684	9.5	24	1-				1.98				2 1 1
HALE	08	0303	0325	0309	N18	E18	.504	8684	9.5	22	-B	3	C	0309	1.65	1.90			
MANI	08	0312E	0328		N20	E17	.520	8684	9.4	16D	-N	2		0314	.62	.73			

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OBSERV-ATORY	DATE	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION — MIN.	IM-POR-TANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	1967 FEB																		
GRP 3274	08	0436	0526	0500	N19	E21	.542	8684	9.8	50	1+				2.91				2 2 2
SIBE	08	0431	0527	0500	N18	E21	.531	8684	9.8	56	2N		C	0500	5.88	6.90		98	FT
MANI	08	0440	0525		N20	E20	.544	8684	9.7	45	-N	2		0442	1.24	1.54			
	06	1605	0034	NO FLARE PATROL															
GRP 3275	08	0844	0934	0903	N12	W05	.328	8682	8.0	50	1				2.07				6 5 4
ARCE	08	0840E	0915D		N11	W06	.317	8682	7.9	35D	1N		P	0915	2.34	2.50			
MONT	08	0840	0925D	0900	N10	W05	.296	8682	8.0	45D	1B		C	0858	1.55				OU
ISTA	08	0845	0935		N12	W05	.328	8682	8.0	50	2N								
KAND	08	0850	0927		N11	W06	.317	8682	7.9	37	1B			0915	3.37	3.34			C
KODA	08	0901E	0937	0905	N14	W02	.351	8682	8.2	36D	-N		V	0905	1.29	1.30	1.64		D
UCCL	08	0917E	0938		N11	W06	.317	8682	7.9	21D	1N		P	0922	3.61	4.10			E
	08	1125	1130	NO FLARE PATROL															
GRP 3276	08	1507	1519	1510	N15	W07	.384	8682	8.1	12	1-				.42				4 3 3
SACP	08	1505	1518	1509	N15	W06	.379	8682	8.2	13	-F		C		.54	.53			
HOUS	08	1507	1517	1510	N15	W09	.395	8682	8.0	10	-N		C		.20	.20		200	
MCMA	08	1510	1517	1512	N15	W07	.384	8682	8.1	7	-F		C	1512	.41	.42			EH
UCCL	08	1515E	1522D	1518	N16	W07	.399	8682	8.1	7D	-N		P	1518	.26	.30			D
GRP 3277	08	1525	1528	1526	N15	W07	.384	8682	8.1	3	1-				.40				1 1 1
HOUS	08	1525	1528	1526	N15	W07	.384	8682	8.1	3	-F		C		.40	.40		100	
GRP 3278	08	1747	1803	1754	N14	W90	1.000	8671	2.0	16	1-				.25				1 1 1
LOCK	08	1747	1803	1754	N14	W90	1.000	8671	2.0	16	-F		C	1754	.30	1.10		10	H
GRP 3279	08	1813	1849	1819	N19	E14	.484	8684	9.8	36	1-				.95				5 4 4
MCMA	08	1812	1845	1816	N20	E16	.512	8684	10.0	33	-N		C	1816	.31	.40			EH
HALE	08	1813	1848	1820	N19	E13	.477	8684	9.7	35	-B	2	C	1820	.93	1.10			
SACP	08	1813	1902	1822	N18	E13	.464	8684	9.7	49	-N		C		1.34	1.37			
LOCK	08	1815	1840	1819	N19	E14	.484	8684	9.8	25	-N		C	1819	1.00	1.10		20	
HUAN	08	1820E	1941D		N19	E14	.484	8684	9.8	41D	-N	1	P	1827	1.44	1.47			E
GRP 3280	08	1847	1924	1837	N19	E08	.449	8684	9.4	37	1-				.74				2 1 1
HALE	08	1817	1918	1837	N19	E07	.444	8684	9.3	61	-N	2	C	1837	.62	.70			
LOCK	08	1917	1930	1920	N18	E09	.439	8684	9.5	13	-F		C	1920	.30	.30		10	
GRP 3281	08	1927	1944	1931	N15	W09	.395	8682	8.1	17	1-				.54				3 3 3
SACP	08	1924	1945	1930	N14	W08	.374	8682	8.2	21	-F		C		.99	.98			
HUAN	08	1930	1945	1933	N16	W09	.409	8682	8.1	15	-F	1	C	1933	.25	.25			D
LOCK	08	1927	1942	1930	N14	W09	.380	8682	8.1	15	-F		C	1930	.50	.60		10	
GRP 3282	08	1925	1938		N20	E09	.468	8684	9.5	13	1-				.23				1 1 1
HUAN	08	1925E	1938		N20	E09	.468	8684	9.5	13D	-F	1	P	1928	.25	.25			D
GRP 3283	08	2029	2102	2034	N31	W30	.734	8680	6.6	33	1-				.25				1 1 1
HALE	08	2029	2102	2034	N31	W30	.734	8680	6.6	33	-N	2	C	2034	.21	.30			
GRP 3284	08	2038	2053	2042	S16	W30	.513	8681	6.6	15	1-				.69				2 2 2
SACP	08	2037	2051	2040	S16	W30	.513	8681	6.6	14	-N		C		1.18	1.22			
HALE	08	2038	2054	2043	S15	W29	.496	8681	6.7	16	-N	2	C	2043	.26	.30			
GRP 3285	08	2053	2101	2055	N12	W15	.403	8682	7.7	8	1-				.55				1 1 1
HALE	08	2053	2101	2055	N12	W15	.403	8682	7.7	8	-N	2	C	2055	.46	.50			
GRP 3286	08	2134	2152	2137	N22	E58	.895	8687	13.2	18	1-				.63				3 3 3
LOCK	08	2132	2210	2137	N22	E59	.902	8687	13.3	28	-N		C	2137	.60	1.30		20	H
HALE	08	2134	2148	2137	N22	E57	.888	8687	13.2	14	-N	2	P	2137	.67	1.50			
SACP	08	2136	2148	2138	N22	E58	.895	8687	13.3	12	-F		C		.54	.85			
GRP 3287	08	2233	2303	2242	N14	W63	.912	8674	4.2	30	1				1.47				3 3 3
LOCK	08	2232	2300	2244	N17	W65	.930	8674	4.1	28	1F		C	2244	1.00	2.30		10	L
SACP	08	2234	2303	2240	N13	W62	.903	8674	4.3	29	1F		C		1.61	2.64			
HALE	08	2234	2306	2242	N13	W63	.910	8674	4.2	32	1N	2	C	2242	1.65				F
GRP 3288	08	2308	2314	2310	N15	W11	.408	8682	8.1	6	1-				.70				2 2 2
SACP	08	2307	2314	2310	N15	W11	.408	8682	8.1	7	-F		C		.72	.72			
HALE	08	2308	2313	2310	N15	W11	.408	8682	8.1	5	-N	2	C	2310	.62	.70			
GRP 3289	08	2349	2356	2351	N13	W16	.425	8682	7.8	7	1-				.61				3 3 3
SACP	08	2349	2356	2351	N12	W16	.413	8682	7.8	7	-N		C		.80	.81			
LOCK	08	2349	2357	2351	N14	W18	.457	8682	7.6	8	-F		C	2351	.50	.60		10	
HALE	08	2350	2356	2352	N12	W15	.403	8682	7.9	6	-N	2	C	2352	.52	.62			
GRP 3290	09	0135	0144	0139	N14	W14	.419	8682	8.0	9	1-				.18				2 2 2
CRON	09	0132	0147	0139	N14	W14	.419	8682	8.0	15	-N		C		.10	.10		200	
HALE	09	0137	0141	0139	N14	W14	.419	8682	8.0	4	-F	2	C	0139	.21	.21			
GRP 3291	09	0217	0230	0221	N14	W15	.428	8682	8.0	13	1-				.23				2 2 2
CRON	09	0216	0230	0219	N14	W14	.419	8682	8.0	14	-N		C		.20	.20		200	I
HALE	09	0217	0229	0223	N14	W15	.428	8682	8.0	12	-N	2	C	0223	.21	.21			
GRP 3292	09	0236	0257	0242	N14	W15	.428	8682	8.0	21	1-				.49				2 2 2
CRON	09	0232	0258D	0243	N14	W14	.419	8682	8.1	26D	-N		C		.60	.70		200	EI
HALE	09	0239	0255	0241	N14	W15	.428	8682	8.0	16	-N	2	C	0241	.31	.32			
GRP 3293	09	0316	0412	0320	N14	W15	.428	8682	8.0	56	1-				.25				1 1 1
HALE	09	0316	0412D	0320	N14	W15	.428	8682	8.0	56D	-N	2	P	0320	.21	.21			
GRP 3294	09	0534	0549		N15	W16	.450	8682	8.0	15	1-				.85				1 1 1
MANI	09	0534E	0549D		N15	W16	.450	8682	8.0	15D	-F	2		0536	.93	1.03			

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OBSERVATORY	DATE 1967 FEB	OBSERVED UT START	OBSERVED UT END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
GRP 3295	09	0915	0958	0852	N15	W20	.489	8682	7.9	43	1-				.52				2 1 1
MONT	09	0845	1005	0852	N14	W19	.468	8682	7.9	80	-N		C	0852	.52				O
UCCL	09	0945	0951	0947	N16	W20	.500	8682	7.9	6	-N		C	0947	1.03	1.50			E
GRP 3296	09	1016	1100	1020	N11	W25	.507	8682	7.6	44	1				1.27				2 2 2
UCCL	09	1016E	1018D		N11	W25	.507	8682	7.6	2D	1N		P	1017	2.06	2.90			EH
MONT	09	1016	1100	1020	N11	W24	.494	8682	7.6	44	1N		C	1019	1.24				OE
GRP 3297	09	1101	1200		N13	W20	.467	8682	8.0	59	1				1.03				1 1 1
MONT	09	1101	1200		N13	W20	.467	8682	8.0	59	1N		C	1105	1.03				OE
GRP 3298	09	1124	1131		S17	W35	.584	8681	6.9	7	1-								1 1 0
WEND	09	1124	1131		S17	W35	.584	8681	6.8	7	-N								
GRP 3299	09	1345	1430	1352	N27	W36	.747	8680	6.9	45	1-				.41				1 1 1
MONT	09	1345	1430D	1352	N27	W36	.747	8680	6.9	45D	-N		C	1352	.41				O
GRP 3300	09	1552	1623	1559	N19	E03	.434	8684	9.9	31	1-				1.29				3 3 3
SACP	09	1548	1630	1600	N19	E04	.436	8684	10.0	42	-N		C		1.71	1.73			
MCMA	09	1552	1615	1559	N20	E02	.448	8684	9.8	23	-N		C	1600	1.03	1.10			EH
HOUS	09	1556	1559D	1559	N19	E04	.436	8684	10.0	3D	-N		C		.90	1.00		200	
GRP 3301	09	1900	1958	1905	N21	E41	.752	8687	12.9	58	1-				.95				4 2 2
LOCK	09	1857	1949D	1905	N20	E41	.746	8687	12.9	52D	-N		C	1905	.80	1.20		10	L
MCMA	09	1902	1957		N20	E41	.746	8687	12.9	55	-F		C	1908	.77	1.10			E
HUAN	09	1927E	1957		N20	E40	.737	8687	12.8	30D	-N	1	C	1949	.25	.31			D
HOUS	09	1939E	1959	1950	N22	E43	.776	8687	13.0	20D	-N		C		.30	.50		200	
GRP 3302	09	1906	1934	1924	N18	E54	.854	8688	13.8	28	1-				.47				2 2 2
SACP	09	1906	1939	1924	N18	E55	.862	8688	13.9	33	-F		C		.71	1.04			
HOUS	09	1920E	1928	1923	N17	E53	.843	8688	13.8	8D	-N		C		.30	.60		200	H
GRP 3303	09	2135	2159	2143	N20	E34	.678	8687	12.4	24	1-				.81				2 2 2
LOCK	09	2132	2210	2142	N21	E33	.676	8687	12.4	38	-N		C	2142	.80	1.10		10	L
HOUS	09	2138	2147	2143	N19	E34	.671	8687	12.5	9	-N		C		.80	1.10		200	IL
GRP 3304	09	2143	2153	2150	N22	E43	.776	8687	13.1	10	1-				.30				1 1 1
HOUS	09	2143	2153	2150	N22	E43	.776	8687	13.1	10	-N		C		.30	.50		200	L
	10	9985	9965	NO FLARE PATROL															
GRP 3305	10	0246	0303	0253	N16	W11	.424	8684	9.3	17	1-				.30				1 1 1
CRON	10	0246	0303	0253	N16	W11	.424	8684	9.3	17	-F		C		.30	.30		100	
GRP 3306	10	0253	0355	0312	N19	W05	.439	8684	9.7	62	1-				.90				1 1 1
CRON	10	0253	0355	0312	N19	W05	.439	8684	9.7	62	-N		C		.90	1.00		200	J
GRP 3307	10	0341	0349	0344	N13	W10	.374	8684	9.4	8	1-				.10				1 1 1
CRON	10	0341	0349	0344	N13	W10	.374	8684	9.4	8	-N		C		.10	.10		200	
GRP 3308	10	0604	0626	0614	N15	W09	.396	8684	9.6	22	1-				.20				1 1 1
CRON	10	0604	0626	0614	N15	W09	.396	8684	9.6	22	-F		C		.20	.20		100	G
GRP 3309	10	0646	0715	0655	N18	W09	.441	8684	9.6	29	1-				.20				1 1 1
CRON	10	0646	0715	0655	N18	W09	.441	8684	9.6	29	-F		C		.20	.20		100	G
GRP 3310	10	0805	0845		N14	E88	1.000	8691	16.9	40	1				.34				1 1 1
ARCE	10	0805E	0845		N14	E88	1.000	8691	16.9	40D	-N		C	0815	.34	1.70			
GRP 3311	10	0810	0820		N20	W90	1.001	8671	3.6	10	1				.22				1 1 1
ARCE	10	0810E	0820D		N20	W90	1.001	8671	3.6	10D	-N		C	0815	.22	1.20			
GRP 3312	10	0850	0905	0855	N19	W24	.571	8682	8.6	15	1-				.43				1 1 1
ARCE	10	0850	0905	0855	N19	W24	.571	8682	8.6	15	-N		C	0855	.43	.50			D
GRP 3313	10	0855	1015	0958	N15	E89	1.000	8691	17.0	80	1				.75				2 2 2
ARCE	10	0855	1005D	0955	N14	E88	1.000	8691	17.0	70D	1N		C	0955	.65	3.20			
CATA	10	0955E	1015D	1001	N15	E90	1.000	8691	17.2	20D	1N			1001	.84			158	
GRP 3314	10	0940	0951	0948	N21	E41	.752	8687	13.5	11	1-				.62				1 1 1
ARCE	10	0940E	0951D	0948	N21	E41	.752	8687	13.5	11D	-N		C	0948	.62	.90			
GRP 3315	10	0948	1000	0951	N18	W30	.622	8682	8.2	12	1-				.75				1 1 1
ARCE	10	0948	1000	0951	N18	W30	.622	8682	8.2	12	-N		C	0951	.74	.90			E
GRP 3316	10	1146	1230	1155	N13	W33	.618	8682	8.0	44	1-				.72				1 1 1
MONT	10	1146	1230	1155	N13	W33	.618	8682	8.0	44	-N		C	1148	.72				OD
GRP 3317	10	1235	1244		S18	W54	.807	8681	6.5	9	1-				.22				1 1 1
HUAN	10	1235E	1244		S18	W54	.807	8681	6.5	9D	-F	1	C	1237	.25	.32			D
GRP 3318	10	1253	1316	1257	N18	W27	.591	8682	8.5	23	1-				.45				1 1 1
HUAN	10	1253	1316	1257	N18	W27	.591	8682	8.5	23	-F	2	C	1257	.50	.54			E
GRP 3319	10	1340	1347		N31	W69	.969	8680	5.4	7	1-				.26				1 1 1
HUAN	10	1340E	1347		N31	W69	.969	8680	5.4	7D	-N	1	P	1341	.37				D
GRP 3320	10	1346	1440		N20	E32	.659	8687	13.0	54	1-				.56				2 2 2
MONT	10	1345	1410D		N20	E32	.659	8687	13.0	25D	-N		C	1349	.41				O
HUAN	10	1347	1440		N19	E32	.651	8687	13.0	53	-F	1	C	1357	.80	.90			E
GRP 3321	10	1355	1409	1359	N31	W69	.969	8680	5.4	14	1-				.15				1 1 1
HUAN	10	1355	1409D	1359	N31	W69	.969	8680	5.4	14D	-F	1	C	1359	.21				D
GRP 3322	10	1709	1722	1712	N17	E85	.999	8693	17.1	13	1-				.20				3 3 2
HUAN	10	1707	1715D		N17	E88	1.000	8693	17.3	8D	-F	1	P	1713	.21				D
LOCK	10	1709	1720	1712	N15	E82	.995	8691	16.9	11	-N		C	1712	.30	1.00		20	J
MCMA	10	1710	1723	1712	N18	E86	1.000	8691	17.2	13	-B		C	1712					D

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GRP 3323	10	1733	1756	1737	N22	E32	.675	8687	13.1	23	1-				.64				2 2 2
LOCK	10	1732	1746	1737	N22	E32	.675	8687	13.1	14	-F		C	1737	.40	.60		10	L
MCMA	10	1733	1805	1737	N22	E32	.675	8687	13.1	32	-N		C	1737	.62	.80			EL
GRP 3324	10	1845	1905	1849	N15	E82	.995	8691	16.9	20	1-				.25				1 1 1
LOCK	10	1845	1905	1849	N15	E82	.995	8691	16.9	20	-N		C	1849	.30	1.00		20	J
GRP 3325	10	1904	1915	1907	N18	E88	1.000	8693	17.4	11	1-				.32				1 1 1
SACP	10	1904	1915	1907	N18	E88	1.000	8693	17.4	11	-N		C		.36				
GRP 3326	10	2012	2027	2017	S00	E75	.966	8691	16.5	15	1-				.17				1 1 1
LOCK	10	2012	2027	2017	S00	E75	.966	8691	16.5	15	-F		C	2017	.20	.60		10	
GRP 3327	10	2200	2230	2215	N15	E78	.985	8691	16.8	30	1-				.25				1 1 1
LOCK	10	2200	2230	2215	N15	E78	.985	8691	16.8	30	-F		C	2215	.30	.90		10	
GRP 3328	10	2320	2334	2325	N15	E78	.985	8691	16.8	14	1-				.17				1 1 1
LOCK	10	2320	2334	2325	N15	E78	.985	8691	16.8	14	-F		C	2325	.20	.60		10	J
GRP 3329	11	0127	0150	0131	S24	W04	.306	8685	10.8	23	1-				.28				1 1 1
CULG	11	0127	0150	0131	S24	W04	.306	8685	10.8	23	-N		C	0131	.31	3.15			
GRP 3330	11	0146	0232	0149	N16	E77	.983	8691	16.8	46	1-				.40				1 1 1
CRON	11	0146	0232	0149	N16	E77	.983	8691	16.8	46	-N		C		.40	1.20		200	
GRP 3331	11	0709	0803	0735	N13	W53	.831	8682	7.3	54	1-				.29				2 2 2
CULG	11	0657	0820D	0734	N13	W53	.831	8682	7.3	83D	-N		P	0734	.41	.72			F
CRON	11	0720	0745	0735	N13	W52	.822	8682	7.4	25	-F		C		.20	.40		200	
GRP 3332	11	0658	0717	0700	N22	E24	.603	8687	13.1	19	1-				.37				1 1 1
CULG	11	0658	0717	0700	N22	E24	.603	8687	13.1	19	-N		C	0700	.41	.50			L
GRP 3333	11	0729	0813	0746	N11	W44	.734	8682	8.0	44	1-				.20				1 1 1
CRON	11	0729	0813	0746	N11	W44	.734	8682	8.0	44	-F		C		.20	.30		100	
GRP 3334	11	1024	1028	1024	N18	W25	.572	8684	9.6	4	1-				.59				1 1 1
MEUD	11	1024	1028	1024	N18	W25	.572	8684	9.6	4	-F		C	1024	.72	.80			D
GRP 3335	11	1148	1208	1200	N13	E40	.699	8688	14.5	20	1-				1.00				5 5 4
CAPS	11	1145	1207		N13	E40	.699	8688	14.5	22	-F	3		1152	1.20	1.70		142	E
ATHN	11	1148E	1149D		N12	E38	.671	8688	14.3	1D	-N	1		1148	.99	1.30			
MEUD	11	1148	1205		N14	E40	.704	8688	14.5	17	-F		C	1150	1.03	1.40			E
WEND	11	1152	1205		N12	E41	.705	8688	14.6	13	-N								
CATA	11	1200E	1215D	1200	N13	E39	.687	8688	14.4	15D	-N			1200	.94	1.30		178	
GRP 3336	11	1444	1449	1445	N19	W28	.611	8684	9.5	5	1-				.47				2 2 2
MCMA	11	1443	1450	1445	N18	W28	.602	8684	9.5	7	-N		C	1445	.31	.40			D
MEUD	11	1445	1447	1445	N19	W27	.601	8684	9.6	2	-F		C	1445	.62	.70			D
GRP 3337	11	1446	1453	1447	N14	W44	.747	8682	8.3	7	1-				.46				3 3 3
MCMA	11	1445	1453	1447	N15	W47	.781	8682	8.1	8	-N		C	1447	.26	.40			D
ATHN	11	1445	1454	1446	N13	W41	.710	8682	8.5	9	-N	2		1446	.50	.70	1.60		
MEUD	11	1447	1451	1447	N14	W43	.736	8682	8.4	4	-F		C	1447	.62	.90			D
GRP 3338	11	1603	1607		N17	W26	.572	8684	9.7	4	1-				.49				1 1 1
HUAN	11	1603E	1607D		N17	W26	.572	8684	9.7	4D	-F	1	P	1604	.55	.58			E
GRP 3339	11	1733	1750	1740	N18	W23	.552	8684	10.0	17	1-				.19				1 1 1
LOCK	11	1733	1750	1740	N18	W23	.552	8684	10.0	17	-F		C	1740	.20	.20		10	
GRP 3340	11	1823	1840	1830	S30	E08	.416	8686	12.4	17	1-				.12				1 1 1
HALE	11	1823	1840	1830	S30	E08	.416	8686	12.4	17	-N	2	C	1830	.10	.11			
GRP 3341	11	1840	1900	1848	N18	W23	.552	8684	10.1	20	1-				.19				1 1 1
LOCK	11	1840	1900	1848	N18	W23	.552	8684	10.1	20	-F		C	1848	.20	.20		10	
GRP 3342	11	1849	1906	1853	N17	E64	.924	8691	16.6	17	1-				.18				1 1 1
HALE	11	1849	1906	1853	N17	E64	.924	8691	16.6	17	-N	2	C	1853	.15				
GRP 3343	11	2251	2303	2256	N18	W27	.592	8684	9.9	12	1-				.39				3 2 2
CULG	11	2249	2301	2255	N18	W27	.592	8684	9.9	12	-B		C	2255	.41	.50			
LOCK	11	2253	2305	2257	N17	W28	.593	8684	9.9	12	-F		C	2257	.40	.50		10	
HALE	11	2258E	2302		N18	W26	.582	8684	10.0	4D	-B	2	P	2258	.31	.40			
GRP 3344	11	2259	2313		S30	E08	.416	8686	12.6	14	1-				.18				1 1 1
HALE	11	2259E	2313		S30	E08	.416	8686	12.6	14D	-N	2	P	2259	.15	.20			
GRP 3345	11	2304	2316	2308	N18	W37	.695	8684	9.2	12	1-				.27				2 2 2
HALE	11	2303	2317	2306	N18	W36	.685	8684	9.3	14	-B	2	C	2306	.21	.30			
LOCK	11	2304	2315	2309	N17	W38	.699	8684	9.1	11	-F		C	2309	.30	.40		10	H
GRP 3346	12	0031	0137	0043	N16	E63	.916	8691	16.7	66	1-				.48				3 3 3
CULG	12	0026	0137	0104	N16	E62	.909	8691	16.7	71	-B		C	0104	.41	.90			L
HALE	12	0036	0130	0043	N17	E63	.918	8691	16.8	54	-B	1	C	0043	.31				
MANI	12	0036E	0144	0043	N15	E63	.914	8691	16.8	68D	-N	2		0043	.83	1.68			
GRP 3347	12	0034	0108	0043	N06	E60	.876	8691	16.5	34	1-				.30				1 1 1
CRON	12	0034	0108D	0043	N06	E60	.876	8691	16.5	34D	-N		C		.30	.60		200	
GRP 3348	12	0338	0343	0339	N17	W36	.679	8684	9.5	5	1-				.31				1 1 1
HALE	12	0338	0343	0339	N17	W36	.679	8684	9.5	5	-N	1	C	0339	.26	.40			C
GRP 3349	12	0402	0454	0415	N16	W36	.672	8684	9.5	52	1-				.10				1 1 1
CRON	12	0402E	0454	0415	N16	W36	.672	8684	9.5	52D	-F		C		.10	.10		100	
GRP 3350	12	0410	0421	0412	N13	W53	.831	8682	8.2	11	1-				.10				1 1 1
CRON	12	0410	0421	0412	N13	W53	.831	8682	8.2	11	-F		C		.10	.20		100	

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OBSERV-ATORY	DATE 1967 FEB	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION — MIN.	IM-POR-TANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP 3351	12	0440	0455	0442	N15	E32	.621	8688	14.6	15	1-				.37				1 1 1
MANI	12	0440E	0455	0442	N15	E32	.621	8688	14.6	15D	-F	2		0442	.41	.47			
GRP 3352	12	0843	0851		N18	W33	.654	8684	9.9	8	1-								1 1 0
ONDE	12	0843E	0851D		N18	W33	.654	8684	9.9	8D	1N		V	0844			2.60		C
GRP 3353	12	0955	1000	0955	N19	W42	.751	8684	9.3	5	1-				.41				1 1 1
ARCE	12	0955	1000D	0955	N19	W42	.751	8684	9.3	5D	-N		C	0955	.41	.70			D
GRP 3354	12	1116	1156	1118	N15	E58	.878	8691	16.8	40	1-				1.36				2 2 2
UCCL	12	1116	1126	1118	N15	E58	.878	8691	16.8	10	1N		C	1118	1.03				FJ
CAPS	12	1117E	1226D		N14	E57	.868	8691	16.7	69D	1N	2		1119	2.00	3.80		164	C
GRP 3355	12	1234	1337	1245	N15	E29	.588	8688	14.7	63	1				2.82				5 3 3
ATHN	12	1233	1328	1245	N14	E29	.580	8688	14.7	55	1N	2		1245	3.30	4.00	1.60		
HUAN	12	1234	1345		N16	E30	.607	8688	14.8	71	1N	1	P	1248	2.48	2.72			
CAPS	12	1237E	1324D		N15	E30	.599	8688	14.8	47D	1N	1		1249	3.00	3.90			FI
ONDE	12	1247E	1315D		N14	E25	.534	8688	14.4	28D	2F		V	1303			2.20		CF
WEND	12	1309E	1338		N18	E29	.613	8688	14.7	29D	2F		V		10.31				
GRP 3356	12	1615	1627	1618	N18	W40	.726	8684	9.7	12	1-				.83				3 3 3
LOCK	12	1615	1625	1619	N19	W40	.732	8684	9.7	10	-N		C	1619	.60	.90		20	
HUAN	12	1615	1626	1618	N18	W39	.716	8684	9.8	11	-N	2	C	1618	.83	.98			E
MCMA	12	1616	1630	1617	N18	W40	.726	8684	9.7	14	-F		C	1617	.83	1.20			E
GRP 3357	12	1801	1842	1817	N18	W40	.726	8684	9.8	41	1-				1.06				4 3 3
LOCK	12	1750	1840	1817	N19	W40	.732	8684	9.7	50	-F		C	1817	.90	1.40		10	
SACP	12	1758	1840	1816	N18	W38	.706	8684	9.9	42	-F		C		1.53	1.80			
MCMA	12	1814	1840D	1817	N18	W40	.726	8684	9.8	26D	-F		C	1817	.62	.90			E
HUAN	12	1821E	1847		N18	W40	.726	8684	9.8	26D	-F	1	P	1825	.80	.96			E
GRP 3358	12	1835	1855	1840	N14	E53	.834	8691	16.7	20	1-				.40				1 1 1
LOCK	12	1835	1855	1840	N14	E53	.834	8691	16.7	20	-F		C	1840	.40	.70		10	
GRP 3359	12	1943	2004	1953	N18	W40	.726	8684	9.8	21	1-				.61				5 5 5
MCMA	12	1935	2003	1937	N18	W40	.726	8684	9.8	28	-F		C	1937	.52	.80			E
HUAN	12	1935	2005	1952	N18	W40	.726	8684	9.8	30	-N	2	C	1952	.52	.61			E
LOCK	12	1945	2001D	1953	N19	W40	.732	8684	9.8	16D	-N		C	1953	.80	1.20		20	
HOUS	12	1949	2003	1953	N17	W39	.710	8684	9.9	14	-N		C		.20	.30		200	
SACP	12	1950	2003	1953	N18	W39	.716	8684	9.9	13	-F		C		.90	1.05			
GRP 3360	12	2034	2044		N14	W71	.958	8682	7.5	10	1-				.32				1 1 1
HUAN	12	2034	2044		N14	W71	.958	8682	7.5	10	-F	1	C	2040	.45				D
GRP 3361	12	2110	2125	2115	N19	W40	.732	8684	9.9	15	1-				.40				1 1 1
LOCK	12	2110	2125	2115	N19	W40	.732	8684	9.9	15	-F		C	2115	.40	.60		10	
GRP 3362	12	2137	2207	2150	N12	W69	.946	8682	7.7	30	1				.97				1 1 1
SACP	12	2137	2207	2150	N12	W69	.946	8682	7.7	30	1N		C		1.08	2.12			
GRP 3363	12	2237	2301	2249	N12	W69	.946	8682	7.8	24	1-				.90				1 1 1
SACP	12	2237	2301	2249	N12	W69	.946	8682	7.8	24	-N		C		1.00	1.95			
GRP 3364	12	2257	2312	2258	N17	W41	.731	8684	9.9	15	1-				.25				1 1 1
HALE	12	2257	2312	2258	N17	W41	.731	8684	9.9	15	-F	1	C	2258	.21	.30			
GRP 3365	12	2330	2357	2336	N16	E20	.502	8688	14.5	27	1-				.37				1 1 1
HALE	12	2330	2357D	2336	N16	E20	.502	8688	14.5	27D	-F	1	P	2336	.31	.40			
GRP 3366	12	2331	2336	2332	N17	W42	.741	8684	9.8	5	1-				.25				1 1 1
HALE	12	2331	2336	2332	N17	W42	.741	8684	9.8	5	-N	1	C	2332	.21	.30			
GRP 3367	13	0005	0034	0012	N16	E77	.983	8693	18.8	29	1-				.32				1 1 1
SACP	13	0005	0034	0012	N16	E77	.983	8693	18.8	29	-F		C		.36				
GRP 3368	13	0011	0028	0015	N18	W43	.756	8684	9.8	17	1-				.58				4 4 4
CULG	13	0010	0024	0014	N18	W43	.756	8684	9.8	14	-B		C	0014	.41	.60			
SACP	13	0010	0036	0016	N18	W43	.756	8684	9.8	26	-F		C		1.18	1.45			
CRON	13	0012	0025	0015	N18	W42	.746	8684	9.9	13	-N		C		.40	.60		200	
HALE	13	0013	0025	0015	N18	W43	.756	8684	9.8	12	-N	2	C	0015	.41	.60			F
GRP 3369	13	0135	0226	0154	N14	E44	.747	8691	16.4	51	1-				.10				1 1 1
CRON	13	0135	0226	0154	N14	E44	.747	8691	16.4	51	-N		C		.10	.20		200	K
GRP 3370	13	0142	0214	0157	N13	W70	.952	8682	7.8	32	1-				.30				1 1 1
CRON	13	0142	0214	0157	N13	W70	.952	8682	7.8	32	-N		C		.30	.90		200	
GRP 3371	13	0233	0325	0235	N14	E44	.747	8691	16.4	52	1-				.10				1 1 1
CRON	13	0233E	0325D	0235	N14	E44	.747	8691	16.4	52D	-N		C		.10	.20		200	K
GRP 3372	13	0240	0250	0243	S02	E46	.720	8691	16.6	10	1-				.25				3 3 3
CRON	13	0239	0250	0242	S03	E47	.731	8691	16.6	11	-N		C		.30	.40		200	
MANI	13	0241	0249		S02	E44	.696	8691	16.4	8	-F	2		0243	.31	.45			
HALE	13	0241	0252	0244	S02	E47	.732	8691	16.6	11	-N	2	C	0244	.15	.20			
GRP 3373	13	0251	0253	0251	N18	W45	.775	8684	9.7	2	1-				.18				1 1 1
HALE	13	0251	0253	0251	N18	W45	.775	8684	9.7	2	-N	2	C	0251	.15	.20			
GRP 3374	13	0556	0609	0600	N15	E16	.452	8688	14.4	13	1-				.10				1 1 1
CRON	13	0556	0609	0600	N15	E16	.452	8688	14.4	13	-N		C		.10	.10		200	HK
GRP 3375	13	0810	0823	0814	N21	W03	.468	8687	13.1	13	1-				.40				1 1 1
CRON	13	0810	0823D	0814	N21	W03	.468	8687	13.1	13D	-N		C		.40	.50		200	L
GRP 3376	13	0830	0842	0840	S25	E88	.997	8694	20.0	12	1				.09				1 1 1
ARCE	13	0830E	0842D	0840	S25	E88	.997	8694	20.0	12D	-N		C	0840	.09	.40			D

SOLAR FLARES
REVISED
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OBSERV-ATORY	DATE 1967 FEB	OBSERVED UT START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION — MIN.	IM-POR-TANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
GRP 3377	13	1515	1530	1521	N12	W79	.987	8682	7.7	15	1-				.20				1 1 1
HOUS	13	1515	1530	1521	N12	W79	.987	8682	7.7	15	-N		C		.20	.60		200	
GRP 3378	13	1540	1607	1548	N16	E12	.433	8688	14.6	27	1-				.72				1 1 1
SACP	13	1540	1607	1548	N16	E12	.433	8688	14.6	27	-F		C		.80	.81			
GRP 3379	13	1619	1624		N15	W90	1.000	8682	6.9	5	1-				.20				1 1 1
HOUS	13	1619	1624		N15	W90	1.000	8682	6.9	5	-N		C		.20	.80		200	
GRP 3380	13	1654	1719	1704	N22	W08	.497	8687	13.1	25	1-				.92				4 4 4
HOUS	13	1653	1713	1706	N22	W09	.501	8687	13.0	20	-N		C		1.20	1.40		100	
SACP	13	1653	1727	1704	N21	W05	.472	8687	13.3	34	-N		C		.79	.82			
MCMA	13	1656	1717	1703	N21	W09	.486	8687	13.0	21	-N		C	1703	.52	.60			EL
LOCK	13	1702E	1720U	1702U	N22	W07	.493	8687	13.2	18U	-N		C	1702	1.00	1.20		20	
GRP 3381	13	1655	1719	1701	N17	E11	.440	8688	14.5	24	1-				.90				2 2 2
SACP	13	1653	1713	1702	N16	E11	.426	8688	14.5	20	-F		C		.54	.54			
MCMA	13	1656	1725	1659	N17	E10	.434	8688	14.5	29	-N		C	1659	.93	1.00			E
GRP 3382	13	1722	1757	1737	N12	W83	.996	8682	7.5	35	1-				.31				2 2 2
HOUS	13	1720	1804	1740	N15	W85	.999	8682	7.3	44	-N		C		.30	1.00		200	E
SACP	13	1723	1749	1733	N09	W80	.988	8682	7.7	26	-N		C		.36				
GRP 3383	13	1749	2130	1817	N21	W10	.491	8687	13.0	221	3				18.32				6 5 5
SACP	13	1746	2243D	1816	N22	W10	.505	8687	13.0	297D	4B		C		37.32	38.68			
LOCK	13	1748	2130U	1815	N22	W07	.493	8687	13.2	222U	3B		C	1815	13.00	15.60		30	L
HOUS	13	1749	1910	1821	N22	W09	.501	8687	13.1	81	3B		C		15.50	17.90		300	L
MCMA	13	1751	2005D		N20	W13	.494	8687	12.8	134D	3B		C	1820	12.38	14.00			ILSU
HALE	13	1807E	2235D	1825	N20	W12	.488	8687	12.9	268D	2B	1	P	1825	10.31	11.80			F
HUAN	13	1946E	2026D		N20	W10	.477	8687	13.1	40D	2F	1	P	1949	4.64	4.82			EIL
GRP 3384	13	1825	1846	1831	N09	W83	.995	8682	7.5	21	1-				.40				1 1 1
SACP	13	1825	1846	1831	N09	W83	.995	8682	7.5	21	-F		C		.44				
GRP 3385	13	2028	2208	2107	N17	W55	.860	8684	9.7	100	1-				.93				4 4 4
LOCK	13	2015U	2110U	2030U	N15	W54	.846	8684	9.8	55U	-F		C	2030	.90	1.70		10	
SACP	13	2031	2204	2101	N17	W55	.860	8684	9.7	93	1F		C		1.61	2.35			
HOUS	13	2033	2310	2159	N20	W56	.876	8684	9.7	157	-N		C		.70	1.30		200	
HALE	13	2034	2207	2107	N16	W54	.849	8684	9.8	93	-N	2	P	2107	.52	1.00			
GRP 3386	13	2214	2229	2218	N19	W85	.999	8682	7.6	15	1				.65				4 4 4
LOCK	13	2213	2229U	2216	N18	W90	1.001	8682	7.2	7U	1B		C	2216	.60	2.30		20	
HOUS	13	2214	2227	2217	N19	W84	.998	8682	7.6	13	-N		C		.20	.80		200	
HALE	13	2215E	2227	2218	N18	W83	.997	8682	7.7	12D	-N	2	P	2218	.31				
SACP	13	2215	2241	2221	N19	W82	.996	8682	7.8	26	1N		C		1.69				
GRP 3387	13	2233	2250	2240	N18	W90	1.001	8682	7.2	17	1-				.25				1 1 1
LOCK	13	2233	2250	2240	N18	W90	1.001	8682	7.2	17	-F		C	2240	.30	1.10		10	H
	13	2340	0000	NO FLARE PATROL															
GRP 3388	14	0117	0126		N15	W80	.991	8682	8.1	9	1-				.16				1 1 1
MANI	14	0117E	0126		N15	W80	.991	8682	8.1	9D	-N	2		0119	.21	.52			
	14	0405	0415	NO FLARE PATROL															
	14	0635	0650	NO FLARE PATROL															
GRP 3389	14	0850	0918	0857	N13	E90	1.000	8695	21.1	28	1				.56				2 2 1
CAPS	14	0846E	0920		N15	E90	1.000	8695	21.1	34D	1N	3		0859				169	AC
ARCE	14	0853	0915	0857	N11	E90	1.000	8695	21.1	22	1N		C	0857	.56	3.20			
GRP 3390	14	1031	1037	1031	N15	W02	.373	8688	14.3	6	1-				.89				2 2 2
MEUD	14	1031	1035	1031	N15	W03	.374	8688	14.2	4	-F		C	1031	.52	.50			
CAPS	14	1031	1038		N15	E00	.371	8688	14.4	7	-N	3		1035	1.30	1.40		161	E
GRP 3391	14	1424	1455	1431	N15	E27	.566	8691	16.6	31	1				1.51				3 3 2
ONDE	14	1423	1450	1432	N14	E28	.569	8691	16.7	27	1F		V	1432			1.90		CH
MONT	14	1425	1500D	1430	N15	E27	.566	8691	16.6	35D	1B		C	1430	1.86				O
MCMA	14	1429E	1432D		N16	E27	.575	8691	16.6	3D	-F		S	1431	.83	1.00			E
GRP 3392	14	1618	1715	1654	N16	W06	.399	8688	14.2	57	1-				.50				1 1 1
HOUS	14	1618	1715	1654	N16	W06	.399	8688	14.2	57	-N		C		.50	.50		200	H
GRP 3393	14	1813	1819	1815	N16	E90	1.001	8695	21.5	6	1-				.20				1 1 1
HOUS	14	1813	1819	1815	N16	E90	1.001	8695	21.5	6	-N		C		.20	.80		200	
GRP 3394	15	0100	0115		N18	E90	1.001	8695	21.8	15	1								1 1 0
IKOM	15	0100	0115D		N18	E90	1.001	8695	21.8	15D	-F		V						
GRP 3395	15	0244	0315	0301	N16	W80	.991	8684	9.1	31	1-				.19				1 1 1
CULG	15	0244	0315	0301	N16	W80	.991	8684	9.1	31	-N		C	0301	.21				
GRP 3396	15	0308	0321	0312	N17	E21	.524	8691	16.7	13	1-				.56				1 1 1
CULG	15	0308	0321	0312	N17	E21	.524	8691	16.7	13	-N		C	0312	.62	.69			L
GRP 3397	15	0435	0510		N14	W90	1.000	8682	8.4	35	1								1 1 0
IKOM	15	0435E	0510D		N14	W90	1.000	8682	8.4	35D	-F		V						
GRP 3398	15	0547	0600	0552	N16	E90	1.001	8695	22.0	13	1-				.19				1 1 1
CULG	15	0547	0600D	0552	N16	E90	1.001	8695	22.0	13D	-N		P	0552	.21				
GRP 3399	15	0850	0950	0900	N16	W14	.449	8688	14.3	60	1-				.72				1 1 1
MONT	15	0850	0950	0900	N16	W14	.449	8688	14.3	60	-F		C	0900	.72				OT
GRP 3400	15	1143	1205	1146	N15	E16	.454	8691	16.7	22	1-				.26				1 1 1
MONT	15	1143	1205	1146	N15	E16	.454	8691	16.7	22	-N		C	1146	.26				OH

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OBSERVATORY	DATE 1967 FEB	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP 3401	15	1526	1531		N17	W17	.487	8688	14.4	5	1-				.50				1 1 1
HUAN	15	1526	1531D		N17	W17	.487	8688	14.4	5D	-F	1	C	1528	.55	.56			E
GRP 3402	15	1538	1555	1538	N20	E90	1.001	8695	22.4	17	1				.80				1 1 1
HOUS	15	1538E	1555	1538	N20	E90	1.001	8695	22.4	17D	1N		C		.80	2.70		200	
GRP 3403	15	1641	1644	1642	N52	E90	1.004	8698	22.4	3	1-				.50				1 1 1
HOUS	15	1641	1644	1642	N52	E90	1.004	8698	22.4	3	-N		C		.50	1.70		200	
GRP 3404	15	1849	1915		N16	W20	.503	8688	14.3	26	1-				.68				1 1 1
HUAN	15	1849E	1915D		N16	W20	.503	8688	14.3	26D	-F	1	P	1904	.75	.78			E
GRP 3405	15	2200	2305	2220	N15	W20	.492	8688	14.4	65	1-				.94				1 1 1
LOCK	15	2200	2305	2220	N15	W20	.492	8688	14.4	65	-F		C	2220	.90	1.10		10	
GRP 3406	15	2304	2350	2310	N14	E67	.938	8695	21.0	46	1				1.28				2 2 2
LOCK	15	2303	2350	2310	N14	E67	.938	8695	21.0	47	1N		C	2310	1.30	4.00		20	
SACP	15	2304	2345D	2309	N14	E67	.938	8695	21.0	11D	1N		C		1.38	2.60			
GRP 3407	16	0053	0123	0101	N15	W24	.535	8688	14.2	30	1-				.29				3 2 2
MITK	16	0050	0126	0100	N16	W23	.534	8688	14.3	36	-N		C	0100	.62	.70			E
IKOM	16	0055	0120	0102	N14	W25	.536	8688	14.2	25	-N		V	0102	.31	.40		110	D
HALE	16	0113E	0124D		N16	W23	.534	8688	14.3	11D	-N	2	P	0115	.21	.22			
GRP 3408	16	0115	0214	0122	N20	E70	.961	8695	21.3	59	1-				.12				1 1 1
HALE	16	0115	0214	0122U	N20	E70	.961	8695	21.3	59	-N	1	C	0122	.10				
GRP 3409	16	0200	0300	0248	N13	E80	.990	8695	22.1	60	1				.74				1 1 1
HALE	16	0200E	0300	0248U	N13	E80	.990	8695	22.1	60D	1N	1	P	0248	.62				
GRP 3410	16	0240	0322	0302	N16	W23	.534	8688	14.4	42	1-				.25				1 1 1
HALE	16	0240U	0322U	0302U	N16	W23	.534	8688	14.4	42U	-N	1	P	0302	.21	.22			
GRP 3411	16	0808	0820	0811	N20	E69	.956	8695	21.5	12	1-				.50				1 1 1
CRON	16	0808	0820	0811	N20	E69	.956	8695	21.5	12	-F		C		.50	1.40		100	
GRP 3412	16	0935	0953		N18	W34	.666	8688	13.8	18	1-				.34				2 2 1
ARCE	16	0935	0950D		N17	W33	.648	8688	13.9	15D	-N		C	0935	.34	.40			H
ONDE	16	0937E	0953		N18	W34	.666	8688	13.9	16D	-F		V	0938			1.70		CDH
GRP 3413	16	1012	1027		N23	E90	1.001	8698	23.2	15	1-								2 2 0
ONDE	16	1012E	1024		N20	E90	1.001	8698	23.2	12D	1N		V	1013			2.20		C
MONT	16	1013E	1030		N25	E90	1.001	8698	23.2	17D	-N		C						
GRP 3414	16	1130	1155	1145	N30	W90	1.002	8684	9.7	25	1-								1 1 0
MONT	16	1130	1155	1145	N30	W90	1.002	8684	9.7	25	-N		C						
GRP 3415	16	1143	1153	1143	N17	W80	.992	8684	10.5	10	1-				1.19				1 1 1
CAPF	16	1143E	1153	1143	N17	W80	.992	8684	10.5	10D	1N		P	1146	1.18				H
GRP 3416	16	1502	1514	1507	N18	E68	.949	8695	21.7	12	1-				.49				1 1 1
MCMA	16	1502	1514	1507	N18	E68	.949	8695	21.7	12	-N		C	1507	.31	.70			E
GRP 3417	16	1613	1619	1615	N18	W32	.645	8688	14.3	6	1-				.19				1 1 1
HUAN	16	1613	1619	1615	N18	W32	.645	8688	14.3	6	-F	2	C	1615	.21	.22			D
GRP 3418	16	1810	1821	1815	N21	E21	.569	8693	18.3	11	1-				.78				2 2 2
SACP	16	1809	1821	1815	N20	E21	.558	8693	18.3	12	-N		C		1.47	1.57			
HUAN	16	1811	1820		N21	E21	.569	8693	18.3	9	-F	1	C	1814	.25	.26			D
GRP 3419	16	1857	1918	1905	N17	E63	.918	8695	21.5	21	1-				.56				3 3 3
LOCK	16	1856	1915	1904	N15	E64	.921	8695	21.6	19	-F		C	1904	.70	1.50		10	
MCMA	16	1858	1920	1903	N18	E65	.932	8695	21.7	22	-B		C	1903	.52	1.20			D
HOUS	16	1903E	1920	1907	N17	E59	.891	8695	21.2	17D	-N		C		.20	.40		200	
GRP 3420	16	2012	2029	2019	N24	W45	.805	8687	13.5	17	1-				.10				1 1 1
HOUS	16	2012	2029D	2019	N24	W45	.805	8687	13.5	17D	-N		C		.10	.20		200	
GRP 3421	16	2041	2127	2057	N15	E56	.863	8695	21.1	46	1-				.72				3 3 3
HOUS	16	2039	2143	2054	N15	E55	.855	8695	21.0	64	-N		C		.40	.80		200	E
SACP	16	2043	2118	2102	N15	E56	.863	8695	21.1	35	1F		C		1.77	2.62			
HALE	16	2047E	2121	2055	N16	E58	.881	8695	21.2	34D	-N	1	P	2055	.15	.30			
GRP 3422	16	2045	2120	2052	N14	E64	.919	8695	21.7	35	1-				.58				1 1 1
LOCK	16	2045	2120	2052	N14	E64	.919	8695	21.7	35	-F		C	2052	.60	1.30		10	
GRP 3423	16	2112	2126	2115	N27	W53	.878	8687	12.9	14	1-				.18				1 1 1
HALE	16	2112	2126	2115	N27	W53	.878	8687	12.9	14	-F	1	P	2115	.15	.30			
GRP 3424	16	2130	2137	2132	N15	W06	.385	8691	16.4	7	1-				.18				1 1 1
HALE	16	2130	2137	2132	N15	W06	.385	8691	16.4	7	-F	1	C	2132	.15	.20			
GRP 3425	16	2148	2202	2148	N15	W05	.381	8691	16.5	14	1-				.94				1 1 1
LOCK	16	2148E	2202	2148U	N15	W05	.381	8691	16.5	14D	-F		C	2148	.90	1.00		10	
GRP 3426	16	2210	2239	2207	N30	E61	.934	8695	21.5	29	1				2.21				2 1 1
LOCK	16	2204	2237	2207	N29	E62	.937	8695	21.6	33	1N		C	2207	2.10	5.00		20	H
HALE	16	2215	2241	2225	N30	E60	.929	8695	21.4	26	-F	1	C	2225	.21				
GRP 3427	16	2329	2341	2332	N17	E26	.575	8693	18.9	12	1-				.45				2 2 2
LOCK	16	2328	2340	2331	N17	E26	.575	8693	18.9	12	-N		C	2331	.70	.80		20	
HALE	16	2330	2341	2332	N17	E26	.575	8693	18.9	11	-N	1	C	2332	.15	.20			
GRP 3428	17	0120	0201	0121	N22	E70	.963	8695	22.3	41	1				.53				2 2 2
HALE	17	0120	0146	0121	N22	E69	.959	8695	22.2	26	1B	1	C	0121	.57				E
CULG	17	0120	0216D	0121	N22	E70	.963	8695	22.3	56D	-B		P	0121	.41				
GRP 3429	17	0309	0335	0316	N24	E77	.988	8698	22.9	26	1-				.30				1 1 1
CRON	17	0309U	0335	0316	N24	E77	.988	8698	22.9	26U	-N		C		.30	1.00		200	

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OBSERVATORY	DATE 1967 FEB	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP 3430	17	0536	0606	0537	N15	E54	.846	8695	21.3	30	1-				.80				1 1 1
CRON	17	0536	0606U	0537U	N15	E54	.846	8695	21.3	30U	-N		C		.80	1.50		200	
GRP 3431	17	0702	0708	0705	N16	W60	.896	8687	12.8	6	1-				.30				1 1 1
CRON	17	0702U	0708U	0705U	N16	W60	.896	8687	12.8	6U	-N		C		.30	.60		200	
GRP 3432	17	0957	1001		N20	E67	.946	8695	22.4	4	1-								1 1 0
ONDE	17	0957E	1001		N20	E67	.946	8695	22.4	4D	-N		V	0958			1.80		CH
	17	1240	1335	NO FLARE PATROL															
GRP 3433	17	1539	1712	1556	N23	E23	.608	8693	19.4	93	1				2.40				2 2 2
SACP	17	1534	1728	1557	N23	E23	.608	8693	19.4	114	1F		C		4.04	4.39			
MCMA	17	1543	1655	1555	N22	E23	.597	8693	19.4	72	-N		C	1555	.83	1.00			EL
GRP 3434	17	1801	1822	1804	N15	W16	.455	8691	16.6	21	1-				.80				1 1 1
SACP	17	1801	1822	1804	N15	W16	.455	8691	16.6	21	-F		C		.89	.90			
GRP 3435	17	1923	1940	1926	N22	W60	.910	8687	13.3	17	1				1.15				1 1 1
SACP	17	1923	1940	1926	N22	W60	.910	8687	13.3	17	1F		C		1.28	2.15			
GRP 3436	17	1936	1950	1941	N26	E65	.946	8698	22.7	14	1				1.37				4 4 4
SACP	17	1934	1952	1941	N24	E65	.942	8698	22.7	18	1N		C		1.98	3.85			
LOCK	17	1936	1951	1940	N25	E62	.928	8698	22.5	15	1B		C	1940	1.00	2.40		30	
HALE	17	1937	1947D	1941	N25	E64	.939	8698	22.6	10D	1B	2	P	1941	1.55				E
MCMA	17	1937	1948	1942	N28	E68	.962	8698	22.9	11	-B		C	1942	.52	1.80			E
GRP 3437	17	2000	2019	2005	N26	E67	.955	8698	22.9	19	1-				.86				2 2 2
SACP	17	1957	2023	2005	N24	E65	.942	8698	22.7	26	1N		C		1.18	2.24			
MCMA	17	2002	2014	2004	N28	E68	.962	8698	22.9	12	-N		C	2004	.41	1.40			E
GRP 3438	17	2108	2114	2110	N23	E58	.899	8695	22.2	6	1-				.29				1 1 1
LOCK	17	2108	2114	2110	N23	E58	.899	8695	22.2	6	-F		C	2110	.30	.60		10	
GRP 3439	17	2201	2209	2204	N18	E44	.767	8695	21.2	8	1-				.43				1 1 1
HALE	17	2201	2209	2204	N18	E44	.767	8695	21.2	8	-N	2	C	2204	.36	.60			E
GRP 3440	17	2212	2235	2217	N23	E56	.886	8698	22.1	23	1				1.29				3 3 3
LOCK	17	2212	2228	2215	N22	E56	.883	8698	22.1	16	-B		C	2215	1.00	2.00		30	
SACP	17	2212	2230	2217	N24	E57	.896	8698	22.2	18	1B		C		1.77	2.80			
HALE	17	2213	2246	2218	N24	E56	.889	8698	22.1	33	1B	2	C	2218	1.03	2.30			
GRP 3441	18	0001	0010	0004	N20	E60	.905	8695	22.5	9	1-				.39				1 1 1
LOCK	18	0001	0010	0004	N20	E60	.905	8695	22.5	9	-F		C	0004	.40	.90		30	L
GRP 3442	18	0040	0103	0047	N24	E61	.921	8698	22.6	23	1-				.49				4 3 3
CRON	18	0034	0101U	0046	N23	E65	.941	8698	22.9	27U	-N		C		.50	1.20		200	I
LOCK	18	0038	0053D	0047	N23	E60	.912	8698	22.5	15D	-F		C	0047	.60	1.40		30	
HALE	18	0039	0059	0048	N25	E61	.923	8698	22.6	20	-N	2	C	0048	.31				
IKOM	18	0048	0110D		N23	E57	.893	8698	22.3	22D	-F		V	0048	.31	.60			D
GRP 3443	18	0210	0223	0214	N23	E53	.864	8695	22.1	13	1-				.43				2 2 2
HALE	18	0209	0225	0214	N23	E52	.857	8695	22.0	16	-N	2	C	0214	.36	.70			
MANI	18	0211	0220	0213	N23	E54	.872	8695	22.1	9	-F	2		0213	.52	.96			
GRP 3444	18	0252	0312	0255	N23	E53	.864	8695	22.1	20	1-				.55				2 2 2
HALE	18	0252	0316	0255	N23	E52	.857	8695	22.0	24	-N	1	C	0255	.41	.80			
MANI	18	0253E	0308		N23	E54	.872	8695	22.2	15D	-N	2		0255	.72	1.34			
GRP 3445	18	0511	0522	0513	N23	E52	.857	8695	22.1	11	1-				.52				2 2 2
CRON	18	0510	0523	0513U	N22	E50	.838	8695	22.0	13	-N		C		.60	1.10		200	EI
MITK	18	0512	0521	0513	N23	E53	.864	8695	22.2	9	-F		C	0513	.62	1.20			D
GRP 3446	18	0534	0614	0544	N26	E60	.919	8698	22.7	40	1-				.70				1 1 1
CRON	18	0534E	0614	0544	N26	E60	.919	8698	22.7	40D	-F		C		.70	1.60		100	IL
GRP 3447	18	1004	1134	1032	N23	E56	.886	8695	22.6	90	2+				8.63				8 7 7
UCCL	18	0941	1212D	1038	N23	E57	.893	8695	22.7	151D	4N		P	1038	20.63				FIJU
CRON	18	0942E	1020U	0951	N23	E53	.864	8695	22.4	38U	1N		C		1.20	2.40		200	EIL
KHAR	18	0945	1212D	1035	N22	E58	.897	8695	22.8	147D	4N		P	1025	19.29	37.60	2.80		EHLOU
KIEV	18	1000E	1136D	1037	N22	E56	.883	8695	22.6	96D	2N		C	1037	8.77			70	FI
CATA	18	1007E	1100D	1035	N21	E55	.873	8695	22.5	53D	3B			1035	1.12	22.50		257	
ZURI	18	1023	1115	1034	N21	E55	.873	8695	22.6	52	4N		C	1034	15.54	32.00			
KODA	18	1025	1120	1032	N22	E53	.861	8695	22.4	55	2N		V	1035	4.51	9.00	2.12		H
BUCA	18	1120E	1204D		N26	E62	.931	8695	23.1	44D	2N		P	1136	3.35	8.60			F
GRP 3448	18	1006	1021		N22	E65	.939	8695	23.3	15	1+								1 1 0
UCCL	18	1006	1021		N22	E65	.939	8695	23.3	15	2N		P						
	18	1215	1345	NO FLARE PATROL															
GRP 3449	18	1742	1808	1750	N22	E39	.742	8695	21.7	26	1-				.40				1 1 1
LOCK	18	1742	1808	1750	N22	E39	.742	8695	21.7	26	-F		C	1750	.40	.60		10	
GRP 3450	18	2050	2250	2113	N16	E14	.451	8695	19.9	120	1-				.10				1 1 1
HOUS	18	2050	2250D	2113	N16	E14	.451	8695	19.9	120D	-F		C		.10	.10		100	
GRP 3451	18	2259	2342	2306	N20	E38	.720	8695	21.8	23	1-				.55				2 2 2
LOCK	18	2257	2319	2307	N21	E38	.727	8695	21.8	22	-F		C	2307	.60	1.00		10	
HALE	18	2300	2325	2304	N18	E38	.708	8695	21.8	25	-N	1	C	2304	.41	.60			
GRP 3452	19	0031	0055	0041	N22	E35	.706	8695	21.6	24	1-				.18				1 1 1
HALE	19	0031	0055	0041	N22	E35	.706	8695	21.6	24	-F	2	C	0041	.15	.20			
GRP 3453	19	0545	0555	0547	N18	W39	.718	8691	16.3	10	1-				.70				1 1 1
CRON	19	0545	0555U	0547	N18	W39	.718	8691	16.3	10U	-F		C		.70	1.00		100	

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OBSERVATORY	DATE 1967 FEB	OBSERVED UT 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 3454	19	0820	0913		S24	E08	.320	8694	19.9	53	1-				1.20				1 1 1
BUCA	19	0820E	0913D		S24	E08	.320	8694	19.9	53D	-F		C	0842	1.67	1.70			
GRP 3455	19	1305	1338		S27	E08	.365	8694	20.1	33	1-				.51				1 1 1
HUAN	19	1305E	1338		S27	E08	.365	8694	20.1	33D	-F	1	P	1326	.57	.57			E
GRP 3456	19	1531	1536		N17	E20	.516	8695	21.1	5	1-				.23				1 1 1
HUAN	19	1531E	1536		N17	E20	.516	8695	21.1	5D	-F	2	P	1531	.25	.26			D
	19	1620	1625	NO FLARE PATROL															
	19	1635	1655	NO FLARE PATROL															
GRP 3457	19	1658	1730	1710	N15	W19	.484	8693	18.3	32	1-				.54				2 2 2
LOCK	19	1658U	1730U	1710U	N14	W19	.473	8693	18.3	32U	-F		C	1710	.70	.80		10	
HALE	19	1701E	1729		N15	W18	.474	8693	18.4	28D	-N	2	P	1716	.31	.40			F
GRP 3458	19	1825	1845	1830	N22	E34	.697	8695	22.3	20	1-				.40				1 1 1
LOCK	19	1825E	1845	1830U	N22	E34	.697	8695	22.3	20D	-F		C	1830	.40	.60		10	
GRP 3459	19	1943	2000	1948	S36	E04	.489	8694	20.1	17	1-				1.05				1 1 1
LOCK	19	1943	2000	1948	S36	E04	.489	8694	20.1	17	-N		C	1948	1.00	1.10		20	L
GRP 3460	19	1945	1956	1946	S26	E04	.332	8694	20.1	11	1-				.43				2 2 2
HALE	19	1945	1957	1946	S26	E04	.332	8694	20.1	12	-N	2	C	1946	.21	.21			F
HUAN	19	1946E	1954		S26	E04	.332	8694	20.1	8D	-N	1	P	1946	.67	.67			E
GRP 3461	19	2244	2315	2250	N23	E31	.677	8695	22.3	31	1-				.40				1 1 1
LOCK	19	2244	2315	2250	N23	E31	.677	8695	22.3	31	-F		C	2250	.40	.60		10	
GRP 3462	20	0109	0139	0114	N14	E22	.505	8695	21.7	30	1-				.25				2 2 2
CRON	20	0105	0153	0113	N13	E22	.494	8695	21.7	48	-N		C		.30	.30		200	
MANI	20	0113	0124	0115	N14	E22	.505	8695	21.7	11	-F	2		0115	.21	.24			
GRP 3463	20	0109	0154	0111	N19	E15	.499	8695	21.2	45	1-				.40				1 1 1
CRON	20	0109	0154	0111	N19	E15	.499	8695	21.2	45	-N		C		.40	.50		200	
GRP 3464	20	0315	0342	0322	N16	E10	.423	8695	20.9	27	1-				.20				1 1 1
CRON	20	0315	0342	0322	N16	E10	.423	8695	20.9	27	-F		C		.20	.20		100	
GRP 3465	20	0341	0359	0343	N21	E28	.633	8695	22.3	18	1-				.50				1 1 1
CRON	20	0341	0359	0343	N21	E28	.633	8695	22.3	18	-N		C		.50	.60		200	
GRP 3466	20	0415	0430	0419	N18	W51	.831	8691	16.4	15	1-				.50				1 1 1
CRON	20	0415	0430	0419	N18	W51	.831	8691	16.4	15	-F		C		.50	.90		100	
GRP 3467	20	0417	0438	0429	N16	E05	.399	8695	20.6	21	1-				.40				1 1 1
CRON	20	0417	0438D	0429	N16	E05	.399	8695	20.6	21D	-F		C		.40	.40		100	
GRP 3468	20	0725	0821	0805	N16	E13	.444	8695	21.3	56	1				1.80				1 1 1
CRON	20	0725	0821D	0805	N16	E13	.444	8695	21.3	56D	1F		C		1.80	2.00		100	EIK
GRP 3469	20	0749	0809	0752	N24	E26	.644	8695	22.3	20	1-				.10				1 1 1
CRON	20	0749	0809	0752	N24	E26	.644	8695	22.3	20	-F		C		.10	.10		100	
GRP 3470	20	0810	0830		N11	E90	1.000	8704	27.1	20	1-								1 1 0
ISTA	20	0810	0830		N11	E90	1.000	8704	27.1	20	-N								
	20	1355	1405	NO FLARE PATROL															
	20	1420	1440	NO FLARE PATROL															
	20	1505	1515	NO FLARE PATROL															
GRP 3471	20	1534	1549		N24	E90	1.001	8704	27.4	15	1				.24				1 1 1
HUAN	20	1534	1549		N24	E90	1.001	8704	27.4	15	-F	1	C	1541	.37				D
GRP 3472	20	1631	1648	1637	N22	E90	1.001	8704	27.4	17	1-				.51				1 1 1
LOCK	20	1631	1648	1637	N22	E90	1.001	8704	27.4	17	1N		C	1637	.60	2.30		20	H
GRP 3473	20	2059	2140	2104	N24	E12	.547	8695	21.8	41	1-				1.17				1 1 1
LOCK	20	2059	2140	2104	N24	E12	.547	8695	21.8	41	-B		C	2104	1.10	1.30		30	
GRP 3474	20	2116	2148	2121	N24	E90	1.001	8704	27.6	32	1-				.27				2 2 2
CULG	20	2115	2205D	2122	N25	E90	1.001	8704	27.6	50D	-N		P	2122	.31				
LOCK	20	2117	2130	2120	N22	E90	1.001	8704	27.6	13	-F		C	2120	.30	1.10		10	H
GRP 3475	20	2152	2251	2211	N22	E12	.520	8695	21.8	59	1-				.99				3 3 3
CULG	20	2143	2205D	2202	N22	E11	.514	8695	21.7	22D	-B		P	2202	1.55	1.65			
HALE	20	2200	2251	2213	N22	E12	.520	8695	21.8	51	-N	2	C	2213	.88	1.00			
HOUS	20	2202E	2218D	2208U	N22	E12	.520	8695	21.8	16D	-N		C		.50	.60		200	E
GRP 3476	20	2224	0040	2257	S26	E70	.933	8703	26.2	136	1				1.67				1 1 1
CULG	20	2224E	0040	2257	S26	E70	.933	8703	26.2	136D	1F		P	2257	1.86				LH
GRP 3477	20	2241	2258	2245	N24	E90	1.001	8704	27.7	17	1-				.18				2 2 2
LOCK	20	2241	2254	2245	N22	E90	1.001	8704	27.7	13	-F		C	2245	.20	.80		10	H
CULG	20	2241	2301	2244	N26	E90	1.001	8704	27.7	20	-N		C	2244	.21				
GRP 3478	20	2321	2339	2327	N24	E90	1.001	8704	27.7	18	1				.37				2 2 1
CULG	20	2321	2339	2327	N25	E90	1.001	8704	27.7	18	-N		C	2327	.41				
IKOM	20	2326E	2333D		N22	E90	1.001	8704	27.7	7D	-F		V						
GRP 3479	21	0025	0048	0033	N14	W36	.662	8693	18.3	23	1-				.44				3 3 3
HALE	21	0023	0036	0033	N15	W34	.646	8693	18.5	13	-N	2	C	0033	.21	.30			
LOCK	21	0026	0050	0032	N14	W37	.673	8693	18.2	24	-N		C	0032	.70	1.00		20	
CULG	21	0026	0059	0033	N14	W36	.662	8693	18.3	33	-N		C	0033	.41	.56			L
GRP 3480	21	0033	0100	0049	N23	E86	1.000	8704	27.5	27	1-				.18				3 3 3
HALE	21	0025	0108	0051	N24	E87	1.000	8704	27.5	43	-N	2	C	0051	.15				T
LOCK	21	0040	0056	0047	N22	E90	1.001	8704	27.8	16	-F		C	0047	.20	.80		10	
MANI	21	0040E	0057		N24	E82	.997	8704	27.2	17D	-N	2		0042	.26	.70			

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1967 FEB	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	— MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP 3481	21	0121	0145	0127	N24	E81	.996	8704	27.1	24	1-				.56				4 4 4
HALE	21	0116	0158	0129	N22	E75	.981	8704	26.7	42	-B	2	C	0129	.52				T
CULG	21	0118	0150	0127	N26	E87	1.000	8704	27.6	32	-N		C	0127	.83				
MITK	21	0123	0138	0127	N23	E80	.994	8704	27.1	15	-F		C	0127	.52				
MANI	21	0125	0135	0126	N24	E81	.996	8704	27.1	10	-N	2		0126	.62	1.69			
GRP 3482	21	0152	0313	0211	N15	W34	.646	8693	18.5	81	1-				1.12				1 1 1
HALE	21	0152	0313	0211	N15	W34	.646	8693	18.5	81	-F	2	C	0211	.93	1.20			
GRP 3483	21	0229	0303	0300	N23	E81	.995	8704	27.2	34	1				.60				6 3 3
HALE	21	0200	0313	0302	N23	E78	.990	8704	26.9	73	1B	2	C	0302	.62				T
IKOM	21	0209E	0307D		N22	E85	.999	8704	27.5	58D	-B		V	0257	.52			115	D
MANI	21	0212	0230	0215	N23	E81	.995	8704	27.2	18	-F	3		0215	.31	.83			
CRON	21	0237E	0301D	0259U	N23	E78	.990	8704	27.0	24D	1B		C		1.00	3.40		300	I
CULG	21	0250	0316	0258	N25	E80	.995	8704	27.1	26	1B		C	0258	1.03				
MITK	21	0253	0311	0302	N24	E85	1.000	8704	27.5	18	1N		C	0302	.62				
GRP 3484	21	0415	0428	0420	S27	E30	.570	8700	23.4	13	1-				.28				1 1 1
MANI	21	0415E	0428D	0420	S27	E30	.570	8700	23.4	13D	-F	2		0420	.31	.38			
GRP 3485	21	0447	0509	0501	N25	E83	.998	8704	27.4	22	1				.27				3 3 3
IKOM	21	0435E	0506D		N22	E85	.999	8704	27.6	31D	-N		V	0452	.52				D
CULG	21	0447	0510	0501	N27	E80	.995	8704	27.2	23	-N		C	0501	.21				L
MITK	21	0458	0507	0501	N25	E85	1.000	8704	27.6	9	-F		C	0501	.52				D
GRP 3486	21	0628	0700	0634	N26	E80	.995	8704	27.3	32	1				1.10				2 2 2
CULG	21	0628	0716	0633	N27	E82	.998	8704	27.4	48	1B		C	0633	1.34				L
TACH	21	0629	0643	0634	N25	E78	.991	8704	27.1	14	1F		C	0634	1.24		1.20	51	D
GRP 3487	21	0649	0840	0715	N24	E79	.992	8704	27.2	111	1-				.96				5 5 5
ABST	21	0618E	0840D	0712	N25	E75	.983	8704	26.9	142D	1		C	0712	1.80	3.90			FGK
MANI	21	0630E	0721D		N22	E83	.998	8704	27.5	51D	1N	2		0631	.83	2.26			
IKOM	21	0632	0632D		N22	E80	.993	8704	27.3		-B		P	0632	.72				DO
CULG	21	0702	0815D	0715	N26	E81	.995	8704	27.4	73D	-B		C	0715	.72				L
TACH	21	0709E	0722D	0717	N25	E78	.991	8704	27.1	13D	1N		C	0717	1.29		2.10	66	L
GRP 3488	21	0747	0815	0759	N16	W40	.717	8693	18.3	28	1-				.75				1 1 1
CULG	21	0747	0815D	0759	N16	W40	.717	8693	18.3	28D	-N		P	0759	.83	1.12			
	21	0815	0825	NO FLARE PATROL															
	21	0945	1025	NO FLARE PATROL															
	21	1110	1210	NO FLARE PATROL															
	21	1315	1410	NO FLARE PATROL															
GRP 3489	21	1426	1430		N25	E85	1.000	8704	28.0	4	1-				.54				1 1 1
UCCL	21	1426E	1430D		N25	E85	1.000	8704	28.0	4D	1N		P	1430	.77				AE
GRP 3490	21	1508	1523		N27	E76	.987	8704	27.3	15	1				.33				1 1 1
HUAN	21	1508E	1523		N27	E76	.987	8704	27.3	15D	-N	1	P	1516	.50				E
GRP 3491	21	1603	1720	1608	N24	E69	.961	8704	26.8	77	1				.67				4 3 4
HOUS	21	1603	1638	1608	N23	E68	.956	8704	26.8	35	1N		C		.80	2.30		200	I
HUAN	21	1609E	1637	1635	N24	E74	.980	8704	27.2	28D	-N	1	P	1635	.35				D
LOCK	21	1609E	1638	1609U	N23	E67	.951	8704	26.7	29D	1N		C	1609	1.00	2.40		20	L
MCMA	21	1613E	1850D		N26	E70	.968	8704	26.9	157D	1B		P	1613					B
GRP 3492	21	1727	1813	1734	N13	W46	.765	8693	18.3	46	1-				.79				5 5 5
LOCK	21	1725	1800	1734	N13	W46	.765	8693	18.3	35	-N		C	1734	1.00	1.60		20	L
HALE	21	1727	1829	1734	N14	W46	.769	8693	18.3	62	-B	2	C	1734	.52	.80			F
HOUS	21	1728	1809	1735	N13	W45	.755	8693	18.4	41	-N		C		.40	.60		200	
MCMA	21	1734E	1755D		N13	W46	.765	8693	18.3	21D	-B		P	1734	.72	1.20			E
HUAN	21	1734E	1803D		N14	W47	.779	8693	18.2	29D	-B	1	P	1740	1.05	1.33			E
GRP 3493	21	1743	1802	1751	N24	E70	.966	8704	27.0	19	1-				.39				4 4 4
HALE	21	1702E	1759	1751	N22	E67	.950	8704	26.7	57D	-N	2	P	1751	.31				T
HUAN	21	1742	1749D		N25	E74	.981	8704	27.3	7D	-N	1	P	1749	.45				D
HOUS	21	1743	1802	1752	N24	E68	.957	8704	26.8	19	-N		C		.40	1.10		200	I
LOCK	21	1744	1805	1749	N23	E67	.951	8704	26.8	21	-N		C	1749	.50	1.40		20	H
GRP 3494	21	1829	1905	1856	N23	E69	.960	8704	26.9	36	1-				.43				2 2 2
HOUS	21	1816	1904	1856	N24	E68	.957	8704	26.9	48	-N		C		.40	1.10		200	I
LOCK	21	1841	1905	1857	N22	E69	.959	8704	27.0	24	-F		C	1844	.30	.90		10	H
GRP 3495	21	1820	1844	1830	N18	W14	.479	8695	20.7	24	1-				.19				1 1 1
LOCK	21	1820	1844	1830	N18	W14	.479	8695	20.7	24	-F		C	1830	.20	.20		10	
GRP 3496	21	1847	1927	1902	N22	E05	.492	8695	22.2	40	1-				.14				2 2
LOCK	21	1835	1950	1900	N22	E05	.492	8695	22.1	75	-F		C	1900	.10	.10		10	H
HALE	21	1900	1904	1903	N22	E05	.492	8695	22.2	4	-N	2	C	1903	.15	.20			
GRP 3497	21	1941	2016	1947	N23	E05	.507	8695	22.2	35	1-				.18				1 1 1
HALE	21	1941	2016	1947	N23	E05	.507	8695	22.2	35	-N	2	C	1947	.15	.20			
GRP 3498	21	1935	2040	2006	N24	E69	.961	8704	27.0	45	1-				.51				5 4 4
HUAN	21	1914	2013D		N24	E74	.980	8704	27.4	59D	-B	1	P	2007	.57				D
HOUS	21	1914	2021	2007	N23	E69	.960	8704	27.0	67	1N		C		.60	2.60		200	I
LOCK	21	1955	2015	2004	N23	E67	.951	8704	26.9	20	-N		C	2004	.60	1.60		20	H
HALE	21	1956	2024	2008	N25	E68	.958	8704	26.9	28	-N	2	C	2008	.41				T
MCMA	21	2010E	2010D		N26	E67	.956	8704	26.9		-B		P	2010	.41	1.00			E

February 21, 1603UT: other maxima at 1635, 1750 and 1845UT;
also February 21, 1941UT: an earlier maximum at 1928.

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OBSERV-ATORY	DATE 1967 FEB	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION — MIN.	IM-POR-TANCE	OBS. COND.	TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
GRP 3499	21	2037	2127	2104	N24	E69	.961	8704	27.0	50	1				.89				5 5 5
HALE	21	2029	2131	2105	N25	E66	.949	8704	26.8	62	-B	1	C	2105	.52				T
LOCK	21	2030	2125	2105	N23	E67	.951	8704	26.9	55	1N		C	2047	.90	2.40		20	H
SACP	21	2034	2112	2102	N25	E69	.963	8704	27.0	38	1B		C		2.09	4.55			
HOUS	21	2053	2141U	2104	N23	E69	.960	8704	27.0	48	1N		C		.70	2.00		200	IK
HUAN	21	2103E	2107D		N25	E72	.974	8704	27.3	4D	-B	1	P	2104	.62				D
GRP 3500	21	2110	2125	2121	N24	E00	.516	8695	21.9	15	1-				.31				1 1 1
HALE	21	2110	2125	2121	N24	E00	.516	8695	21.9	15	-F	2	C	2121	.26	.30			
GRP 3501	21	2135	2350	2155	N24	E68	.957	8704	27.0	135	1-				.69				4 3 3
LOCK	21	2132	2345	2157	N23	E67	.951	8704	26.9	133	1F		C	2157	1.10	3.00		20	H
HALE	21	2134	2355	2315	N25	E66	.949	8704	26.8	141	-N	1	C	2315	.41				TK
HOUS	21	2140U	2225D	2150	N24	E69	.961	8704	27.1	45D	-N		C		.50	1.40		200	I
HUAN	21	2153E	2207D		N23	E68	.956	8704	27.0	14D	1N	1	P	2153	.96				E
GRP 3502	21	2237	2239	2237	N25	E87	1.000	8704	28.5	2	1-				.25				1 1 1
HALE	21	2237	2239	2237	N25	E87	1.000	8704	28.5	2	-N	2	C	2237	.21				T
GRP 3503	21	0001	0045	0000	N16	W17	.478	8695	20.7	44	1-				.50				2 1 1
LOCK	21	2330	0040	0000	N16	W17	.478	8695	20.7	70	-F		C	0000	.50	.60		10	L
HALE	22	0032	0050	0035	N16	W17	.478	8695	20.7	18	-N	1	C	0035	.26	.30			
GRP 3504	21	2357	0017	0007	N25	E69	.963	8704	27.2	20	1-				.36				4 4 4
LOCK	21	2350	0015	2355	N22	E66	.945	8704	26.9	25	-N		C	2355	.40	1.00		20	H
SACP	22	0000	0015	0008	N24	E68	.957	8704	27.1	15	-F		C		.45	.92			
MANI	22	0002	0014	0005	N27	E70	.969	8704	27.3	12	-N	2		0005	.41	.94			
MITK	22	0005E	0022D		N25	E70	.967	8704	27.3	17D	-N		C	0006	.52				D
GRP 3505	22	0041	0057	0043	N24	E67	.953	8704	27.1	16	1-				.48				2 2 2
HALE	22	0038	0058	0040	N24	E66	.948	8704	27.0	20	-B	1	C	0040	.26				
LOCK	22	0043	0055U	0046	N23	E68	.956	8704	27.1	12U	-F		C	0046	.70	1.80		10	H
GRP 3506	22	0118	0137	0125	N25	E69	.963	8704	27.2	19	1-				.41				3 3 3
MITK	22	0109	0138	0123	N24	E70	.966	8704	27.3	29	-B		C	0123	.62				E
HALE	22	0123	0136	0125	N23	E67	.951	8704	27.1	13	-B	1	C	0125	.46				
MANI	22	0123	0136	0127	N27	E69	.965	8704	27.2	13	-B	2		0127	.31	.71			
GRP 3507	22	0142	0200	0145	S19	W30	.522	8694	19.8	18	1-				.25				1 1 1
HALE	22	0142	0200	0145	S19	W30	.522	8694	19.8	18	-B	1	C	0145	.21	.22			
GRP 3508	22	0210	0219	0214	N24	E61	.921	8704	26.7	9	1-				.34				2 2 2
MITK	22	0210E	0215		N24	E62	.927	8704	26.7	5D	-N		C	0213	.52				D
HALE	22	0210	0223	0214	N23	E59	.906	8704	26.5	13	-B	2	C	0214	.26				
GRP 3509	22	0229	0250	0233	N23	E67	.951	8704	27.1	21	1-				.21				2 2 2
HALE	22	0227	0300	0232	N23	E66	.946	8704	27.1	33	-B	1	C	0232	.21				
MANI	22	0230	0240	0234	N23	E67	.951	8704	27.1	10	-N	2		0234	.21	.45			
GRP 3510	22	0332	0355	0334	N16	W17	.478	8695	20.9	23	1-				.49				1 1 1
HALE	22	0332	0355	0334	N16	W17	.478	8695	20.9	23	-B	1	C	0334	.41	.50			H
GRP 3511	22	0405	0424	0403	N23	E66	.946	8704	27.1	19	1-				.31				3 1 1
HALE	22	0355	0410	0358	N23	E67	.951	8704	27.2	15	-B	1	C	0358	.26				
MANI	22	0406E	0438	0407	N23	E65	.941	8704	27.0	32D	1F	2		0407	1.50	3.20			
IKOM	22	0414	0414D		N22	E66	.945	8704	27.1		1B		P	0414	1.03	2.60			EO
GRP 3512	22	0402	0417	0406	N14	W48	.789	8693	18.6	15	1-				.49				1 1 1
HALE	22	0402	0417D	0406	N14	W48	.789	8693	18.6	15D	-N	1	P	0406	.41	.70			
GRP 3513	22	0432	0458	0439	N13	W52	.823	8693	18.3	26	1-				.49				1 1 1
MANI	22	0432	0458	0439	N13	W52	.823	8693	18.3	26	-F	2		0439	.57	.97			
GRP 3514	22	0505	0516	0510	N24	E61	.921	8704	26.8	11	1				1.30				4 4 4
MANI	22	0501	0519	0511	N22	E61	.917	8704	26.8	18	1B	2		0511	1.65	3.54			
TACH	22	0506	0515	0510	N24	E61	.921	8704	26.8	9	1B		C	0510	1.28	3.20	5.30	132	EH
SIRE	22	0509E	0509D		N24	E61	.921	8704	26.8		1N		P	0509	1.90	4.60		84	DT
MITK	22	0509	0515	0510	N24	E60	.915	8704	26.7	6	1B		C	0510	1.24				
GRP 3515	22	0529	0537	0530	S28	E62	.883	8703	26.9	8	1-				.16				1 1 1
MANI	22	0529E	0537	0530	S28	E62	.883	8703	26.9	8D	-N	2		0530	.21	.39			
GRP 3516	22	0558	0611	0559	N23	E71	.968	8704	27.6	13	1-				.32				1 1 1
MANI	22	0558E	0611	0559	N23	E71	.968	8704	27.6	13D	-N	2		0559	.41	.98			
GRP 3517	22	0622	0635	0625	N24	E66	.948	8704	27.2	13	2-				2.21				4 4 4
TACH	22	0621	0630	0624	N25	E68	.959	8704	27.4	9	1B		C	0624	.73		6.00	138	EWX
MANI	22	0622	0641	0625	N23	E64	.936	8704	27.1	19	2B	2		0625	3.51	7.52			
KODA	22	0623E	0635	0627	N23	E65	.941	8704	27.1	12D	2F		P	0629	3.22	7.90	1.88		DLB
MITK	22	0625E	0633		N25	E67	.954	8704	27.3	8D	2N		C	0625	1.96				E
GRP 3518	22	0755	0800		N22	E65	.939	8704	27.2	5	1				.93				1 1 1
MONT	22	0755E	0800		N22	E65	.939	8704	27.2	5D	1N		C	0755	.93				OT
GRP 3519	22	0755	0800		N18	W54	.856	8693	18.3	5	1				1.03				1 1 1
MONT	22	0755E	0800		N18	W54	.856	8693	18.3	5D	1N		C	0755	1.03				O
GRP 3520	22	0802	0838	0826	N21	E70	.962	8704	27.6	36	2+				1.65				1 1 1
MONT	22	0802	0838	0826	N21	E70	.962	8704	27.6	36	2B		C	0828	1.65				
GRP 3521	22	0848	0910	0855	N15	W55	.855	8693	18.2	22	1-				.21				1 1 1
MONT	22	0848	0910	0855	N15	W55	.855	8693	18.2	22	-N		C	0855	.21				

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OBSERV-ATORY	DATE	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION MCMATH PLAGE REGION	LOCATION CMP DAY	DURA-TION — MIN.	IM-POR-TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT. %	REMARKS
	1967 FEB																		
GRP 3522	22	0858	0911	0902	N23	E65	.941	8704	27.2	13	1				.79				3 3 3
MANI	22	0857	0911	0902	N24	E65	.943	8704	27.2	14	1F	2		0902	1.03	2.21			
ARCE	22	0858E	0902D		N22	E65	.939	8704	27.2	4D	-N		P	0900	.57	1.20			
MONT	22	0858	0910	0901	N22	E65	.939	8704	27.2	12	1B		C	0901	.93				OTD
GRP 3523	22	0917	1043	0929	N23	E87	1.000	8704	28.9	66	2				2.33				3 3 2
ARCE	22	0916	0955	0928	N23	E87	1.000	8704	28.9	39	1N		C	0928	.69	2.90			
MONT	22	0917	0955D	0955D	N20	E90	1.000	8704	1.1	38D	2B		C						OTH
CATA	22	0925E	1120D	0929	N25	E85	1.000	8704	28.8	115D	3N		C	0933	4.47			174	
GRP 3524	22	0945	1000		N22	E62	.923	8704	27.1	15	1-				.43				1 1 1
ARCE	22	0945E	1000D		N22	E62	.923	8704	27.1	15D	-F		C	0948	.43	.90			
GRP 3525	22	1232	1250		N25	E63	.934	8704	27.2	18	1				1.80				1 1 1
CAPS	22	1232	1250D		N25	E63	.934	8704	27.2	18D	1N	2		1238	1.80			173	E
GRP 3526	22	1325	1339		N23	E58	.900	8704	26.9	14	2-				2.20				1 1 1
CAPS	22	1325E	1339		N23	E58	.900	8704	26.9	14D	1B	3		1328	2.20				CV
GRP 3527	22	1410	1539	1425	N26	E62	.931	8704	27.2	89	2				3.41				5 2 2
MCMA	22	1400	1530	1425	N28	E64	.945	8704	27.4	90	2B		C	1455	2.58	6.00			E
CAPS	22	1403E	1533		N25	E60	.918	8704	27.1	90D	1B	3		1426	1.80			185	CEU
SACP	22	1403	1557	1456	N25	E60	.918	8704	27.1	114	1F		C		2.34	4.03			
HOUS	22	1427	1531	1435	N26	E62	.931	8704	27.3	64	-N		C		.60	1.40		200	IJ
CAPF	22	1500E	1545		N25	E62	.929	8704	27.3	45D	2N		P	1505	4.70	10.00			
GRP 3528	22	1440	1555	1452	N23	E02	.502	8698	22.8	75	1+				5.03				4 4 4
HOUS	22	1439	1544	1452	N22	E03	.488	8698	22.8	65	1N		C		3.40	3.90		200	
MCMA	22	1440	1604	1452	N24	W02	.517	8698	22.5	84	2B		C	1452	4.74	5.40			F
SACP	22	1440	1631	1502	N22	W01	.486	8698	22.5	111	2B		C		7.39	7.63			
CAPS	22	1445E	1522		N22	W00	.486	8698	22.6	37D	1F	3		1456	3.50	4.00		155	
GRP 3529	22	1557	1606	1602	N14	W80	.991	8691	16.7	9	1-				.10				1 1 1
HOUS	22	1557	1606	1602	N14	W80	.991	8691	16.7	9	-F		C		.10	.30		100	
GRP 3530	22	1614	1645	1610	N25	E62	.929	8704	27.3	31	1-				.85				3 2 2
MCMA	22	1606	1655	1613	N26	E63	.936	8704	27.4	49	-N		C	1613	.52	1.50			E
LOCK	22	1610E	1622	1610E	N25	E61	.923	8704	27.2	12D	-N		C	1610	.90	2.00		20	
SACP	22	1621	1657	1635	N24	E62	.927	8704	27.3	36	1N		C		1.35	2.39			
GRP 3531	22	1624	1652	1633	N26	W13	.579	8698	21.7	28	1-				2.02				4 4 4
HOUS	22	1623	1655	1637	N24	W13	.553	8698	21.7	32	-N		C		.50	.60		200	L
SACP	22	1623	1655	1631	N24	W13	.553	8698	21.7	32	2N		C		5.38	5.69			
MCMA	22	1624	1647	1630	N24	W10	.538	8698	21.9	23	-N		C	1630	1.03	1.20			EH
LOCK	22	1625	1659	1635	N31	W17	.661	8698	21.4	25	-N		C	1635	1.20	1.60		20	
GRP 3532	22	1641	1652	1643	N14	W57	.869	8693	18.4	11	1-				.55				4 4 4
LOCK	22	1640	1652	1643	N14	W57	.869	8693	18.4	12	-N		C	1643	.40	.80		20	
HOUS	22	1641	1651	1643	N13	W56	.858	8693	18.5	10	-N		C		.20	.40		200	
SACP	22	1642	1652	1643	N15	W58	.879	8693	18.3	10	-F		C		.90	1.37			
MCMA	22	1642	1654	1644	N15	W58	.879	8693	18.3	12	-N		C	1644	.52	1.10			E
GRP 3533	22	1739	2039	1850	N25	E62	.929	8704	27.4	180	2				4.17				5 5 5
LOCK	22	1657	2025	1850	N22	E60	.910	8704	27.2	208	2B		C	1850	3.00	6.30		30	J
SACP	22	1704	2124	1854	N24	E60	.915	8704	27.2	260	2B		C		7.16	12.24			
HOUS	22	1746	2009	1848	N28	E65	.950	8704	27.6	143	2N		C		4.20	8.80		200	IJ
HALE	22	1807	1931D	1849	N26	E63	.936	8704	27.5	84D	2B	2	C	1849	2.48	5.70			
MCMA	22	1819	2022D	1848	N25	E63	.934	8704	27.5	123D	2B		C	1820	2.06				F
GRP 3534	22	1740	1750	1742	S26	E44	.718	8703	26.0	10	1-				.31				1 1 1
HALE	22	1740	1750	1742	S26	E44	.718	8703	26.0	10	-N	3	C	1742	.26	.40			H
GRP 3535	22	1748	1822	1751	N21	W14	.519	8695	21.7	34	1-				.55				1 1 1
HALE	22	1748	1822	1751	N21	W14	.519	8695	21.7	34	-N	2	C	1751	.46	.50			
GRP 3536	22	1824	1846	1830	S24	W31	.562	8694	20.4	22	1-				.38				3 3 3
HOUS	22	1824	1840	1829	S20	W35	.592	8694	20.1	16	1F		C		.20	.30		100	L
SACP	22	1824	1846	1830	S27	W33	.603	8694	20.3	22	-N		C		.55	.58			
HALE	22	1825	1851	1830	S24	W26	.502	8694	20.8	26	-N	2	C	1830	.36	.40			
GRP 3537	22	2048	2137	2054	N24	E56	.890	8704	27.1	49	1-				.87				3 2 2
LOCK	22	2048	2130	2052	N22	E57	.890	8704	27.1	42	-N		C	2052	.90	1.90		20	K
HALE	22	2053E	2137	2055	N25	E56	.893	8704	27.1	44D	-N	1	P	2055	.67	1.50			
HUAN	22	2131E	2144		N24	E55	.883	8704	27.0	13D	-F	1	P	2138	.46	.71			E
GRP 3538	22	2208	2244	2215	N24	E57	.896	8704	27.2	36	1-				1.00				3 3 3
SACP	22	2205	2252	2214	N24	E57	.896	8704	27.2	47	1F		C		1.99	3.20			
HALE	22	2210	2235	2216	N24	E58	.903	8704	27.3	25	-N	1	C	2216	.41	.90			
HUAN	22	2210	2242D	2215	N24	E57	.896	8704	27.2	32D	-B	1	C	2215	.95	1.53			E
GRP 3539	22	2310	2359	2318	N25	E55	.886	8704	27.1	49	1				2.23				2 2 2
SACP	22	2307	2354D	2338	N25	E56	.893	8704	27.2	47D	2F		C		4.09	6.43			
HALE	22	2312	2359D	2318	N25	E54	.879	8704	27.0	47D	-N	1	C	2318	.31	.70			
GRP 3540	23	0001	0019	0002	N14	E35	.651	8702	25.6	18	1-				.20				1 1 1
CRON	23	0001E	0019	0002	N14	E35	.651	8702	25.6	18D	-N		C		.20	.30		200	
GRP 3541	23	0009	0022	0013	N23	E48	.827	8704	26.6	13	1-				.30				1 1 1
CRON	23	0009	0022	0013U	N23	E48	.827	8704	26.6	13	-N		C		.30	.50		200	E

February 22, 2132UT: other maxima at 2133, 2257, 2314 and 2334UT.

SOLAR FLARES

REVISED

FEBRUARY 1967

OBSERV-ATORY	DATE	OBSERVED UT START	OBSERVED UT END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION — MIN.	IM-POR-TANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
	1967 FEB																		
GRP 3542	23	0053	0138	0111	N23	E48	.827	8704	26.6	45	1				1.05				3 3 3
CRON	23	0049	0135D	0109U	N23	E47	.818	8704	26.6	46D	1B		C		1.20	2.10		300	I
MANI	23	0053	0130	0115	N23	E48	.827	8704	26.6	37	-N	2		0115	.62	1.05			
HALE	23	0056	0145	0110	N24	E50	.846	8704	26.8	49	1B	1	C	0110	1.19	2.10			VZ
GRP 3543	23	0107	0131	0115	N16	E30	.610	8702	25.3	24	1-				.10				1 1 1
CRON	23	0107	0131	0115	N16	E30	.610	8702	25.3	24	-N		C		.10	.10		200	
GRP 3544	23	0157	0218	0206	N23	E47	.818	8704	26.6	21	1-				.40				1 1 1
CRON	23	0157	0218D	0206	N23	E47	.818	8704	26.6	21D	-N		C		.40	.70		200	HI
GRP 3545	23	0242	0340	0259	N23	E51	.850	8704	26.9	58	1				.92				3 2 2
CRON	23	0231D	0332D		N23	E50	.842	8704	26.9	61D	1N		C		1.40	2.70		200	IK
HALE	23	0253	0340	0259	N24	E53	.869	8704	27.1	47	-N	1	C	0259	.36	.70			
MANI	23	0330E	0340	0331	N23	E51	.850	8704	27.0	10D	-F	2		0331	.31	.56			
GRP 3546	23	0426	0433	0429	N23	E51	.850	8704	27.0	7	1				1.40				1 1 1
CRON	23	0426	0433D	0429	N23	E51	.850	8704	27.0	7D	1N		C		1.40	2.70		200	IK
	23	0510	0520	NO FLARE PATROL															
GRP 3547	23	0526	0557	0528	N22	E51	.846	8704	27.1	31	1-				.60				1 1 1
CRON	23	0526E	0557D	0528	N22	E51	.846	8704	27.1	31D	-N		C		.60	1.20		200	EI
GRP 3548	23	0625	0633		N25	E47	.828	8704	26.8	8	1-				1.29				1 1 1
MANI	23	0625E	0633		N25	E47	.828	8704	26.8	8D	1N	1		0628	1.44	2.11			
GRP 3549	23	0633	0639	0635	N21	E61	.914	8704	27.8	6	1-				.24				1 1 1
MANI	23	0633	0639	0635	N21	E61	.914	8704	27.8	6	-F	2		0635	.31	.65			
GRP 3550	23	0735	0739		N26	E49	.847	8704	27.0	4	1-				.34				1 1 1
MANI	23	0735E	0739D		N26	E49	.847	8704	27.0	4D	-N	1		0737	.41	.72			
GRP 3551	23	0829	0857	0833	N24	E43	.790	8704	26.6	28	2+				5.10				4 4 4
BUCA	23	0828E	0847D	0830	N23	E43	.785	8704	26.6	19D	1B		C	0830	1.47	2.40			
CRON	23	0829	0905D	0832	N23	E41	.767	8704	26.4	36D	1B		C		1.30	2.10		300	HI
CATA	23	0831E	0845D	0838	N23	E42	.776	8704	26.5	14D	3B		C	0838	8.46	14.00		302	
MANI	23	0831E	0848	0833	N25	E45	.812	8704	26.7	17D	3B	2		0833	7.99	13.33			
GRP 3552	23	0915	0940		N12	W70	.952	8693	18.1	25	1-				1.65				1 1 1
WEND	23	0915E	0940		N12	W70	.952	8693	18.1	25D	1N		V		4.13				
GRP 3553	23	1113	1115		N24	E40	.765	8704	26.5	2	1-								1 1 0
ONDE	23	1113E	1115		N24	E40	.765	8704	26.5	2D	-N		V						CO
GRP 3554	23	1143	1218	1150	N24	E51	.854	8704	27.3	35	2+				8.60				2 2 2
WEND	23	1143E	1218		N24	E52	.861	8704	27.4	35D	2F		V		10.31				
CATA	23	1144E	1215D	1150	N23	E50	.842	8704	27.2	31D	3B		C	1150	8.95	16.80		269	
GRP 3555	23	1217	1231		N20	W85	.999	8693	17.1	14	1-				.72				1 1 1
UCCL	23	1217E	1231D		N20	W85	.999	8693	17.1	14D	1F		P	1221	1.03				E
	23	1230	1235	NO FLARE PATROL															
	23	1255	1350	NO FLARE PATROL															
	23	1355	1415	NO FLARE PATROL															
GRP 3556	23	1417	1445		N25	E49	.843	8704	27.3	28	1				2.45				2 2 2
MCMA	23	1417E	1428D		N24	E48	.831	8704	27.2	11D	1N		P	1419	1.24	2.00			E
MONT	23	1420E	1445D		N25	E50	.851	8704	27.3	25D	1N		C	1425	3.09				O
GRP 3557	23	1506	1523	1515	N24	E47	.823	8704	27.2	17	1-				.90				2 1 1
MCMA	23	1500	1525	1515	N24	E48	.831	8704	27.2	25	-N		C	1503	.62	1.10			E
SACP	23	1512	1521	1515	N24	E45	.807	8704	27.0	9	-F		C		.99	1.31			
GRP 3558	23	1532	1543	1534	N17	W36	.682	8695	20.9	11	1-				.72				1 1 1
SACP	23	1532	1543	1534	N17	W36	.682	8695	20.9	11	-F		C		.80	.93			
GRP 3559	23	1609	1627	1615	N24	E38	.748	8704	26.5	18	1+				3.03				3 2 2
MCMA	23	1608	1624D	1615	N25	E38	.754	8704	26.5	16D	1B		C	1615	3.09	4.30			EH
SACP	23	1610	1628	1614	N23	E39	.750	8704	26.6	18	1N		C		1.89	2.33			
HUAN	23	1621E	1626		N24	E38	.748	8704	26.5	5D	-B	1	P	1621	.46	.58			DH
GRP 3560	23	1625	1707	1631	N24	E45	.807	8704	27.1	42	1				2.02				3 3 3
MCMA	23	1624	1715D	1630	N25	E45	.812	8704	27.1	51D	1B		C	1630	2.27	3.50			EH
HUAN	23	1625	1650D		N23	E45	.802	8704	27.1	25D	1N	1	P	1630	1.75	2.30			EH
SACP	23	1626	1659	1631	N23	E45	.802	8704	27.1	33	-N		C		1.44	1.90			
GRP 3561	23	1701	1722	1707	N22	E61	.917	8704	28.3	21	1				1.11				3 3 3
HALE	23	1700	1730	1707	N22	E62	.923	8704	28.4	30	1B	1	C	1707	.83				F
MCMA	23	1701	1714	1706	N22	E61	.917	8704	28.3	13	-B		C	1706	.62	1.50			E
SACP	23	1701	1722	1707	N22	E61	.917	8704	28.3	21	1N		C		1.54	2.62			
GRP 3562	23	1730	1811	1720	N17	W37	.692	8695	21.0	41	1-				1.00				2 1 1
HALE	23	1717	1815	1720	N16	W35	.664	8695	21.1	58	-N	2	C	1720	.83	1.10			
SACP	23	1742	1806	1747	N17	W38	.703	8695	20.9	24	-F		C		.91	1.05			
GRP 3563	23	1728	1746	1730	N24	E44	.799	8704	27.0	18	1-				1.38				1 1 1
SACP	23	1728	1746	1730	N24	E44	.799	8704	27.0	18	-N		C		1.53	2.01			
GRP 3564	23	1910	1921	1913	N22	E37	.725	8704	26.6	11	1-				.50				2 2 2
SACP	23	1910	1919	1913	N22	E38	.734	8704	26.6	9	-N		C		.63	.76			
HALE	23	1910	1922	1913	N22	E36	.716	8704	26.5	12	-N	1	C	1913	.36	.50			F
GRP 3565	23	1925	1932	1928	N23	E57	.893	8704	28.1	7	1-				.78				1 1 1
MCMA	23	1925	1932	1928	N23	E57	.893	8704	28.1	7	-N		C	1928	.52	1.00			E
GRP 3566	23	1941	2019		N24	E57	.896	8704	28.1	38	1-				.94				1 1 1
MCMA	23	1941E	2019D		N24	E57	.896	8704	28.1	38D	-N		P	1949	.62	1.20			E

SOLAR FLARES
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OBSERVATORY	DATE	START	END	MAX. PHASE	LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	1967 FEB																		
GRP 3567	23	2030	2046	2037	N23	E48	.827	8704	27.5	16	1-				.26				2 2 2
HOUS	23	2025	2046	2037	N22	E48	.822	8704	27.5	21	-N		C		.20	.30		200	
HALE	23	2034	2045	2036	N23	E47	.818	8704	27.4	11	-N	1	C	2036	.26	.50			
GRP 3568	23	2049	2104	2052	N22	E58	.897	8704	28.2	15	1-				.43				2 2 2
HALE	23	2048	2107	2052	N22	E58	.897	8704	28.2	19	-N	1	C	2052	.46	1.10			F
HOUS	23	2049	2100	2051	N21	E58	.895	8704	28.2	11	-N		C		.30	.60		200	E
GRP 3569	23	2121	2131	2125	N22	E51	.846	8704	27.7	10	1-				.20				1 1 1
HOUS	23	2121	2131	2125	N22	E51	.846	8704	27.7	10	-F		C		.20	.40		100	
GRP 3570	23	2210	2220	2215	S21	E07	.267	8700	24.4	10	1-				.37				1 1 1
HALE	23	2210	2220	2215	S21	E07	.267	8700	24.4	10	-F	1	C	2215	.31	.32			G
GRP 3571	23	2212	2232	2219	N18	W40	.729	8695	20.9	20	1-				.49				2 2 2
HOUS	23	2211	2235	2216	N19	W41	.744	8695	20.8	24	-F		C		.60	.90		100	
HALE	23	2212	2228	2222	N16	W39	.707	8695	21.0	16	-N	1	C	2222	.31	.40			F
GRP 3572	23	2244	2255	2245	N23	E48	.827	8704	27.5	11	1-				.31				1 1 1
HALE	23	2244	2255	2245	N23	E48	.827	8704	27.5	11	-N	1	C	2245	.26	.50			
GRP 3573	23	2246	2318	2253	S26	W04	.330	8700	23.6	32	1-				.96				1 1 1
MANI	23	2246	2318	2253	S26	W04	.330	8700	23.6	32	-N	1		2253	1.03	1.19			
GRP 3574	23	2332	2355	2342	N16	W38	.696	8695	21.1	23	1-				.43				1 1 1
HALE	23	2332	2355	2342	N16	W38	.696	8695	21.1	23	-N	1	C	2342	.36	.50			F
GRP 3575	24	0020	0026	0021	N23	E46	.810	8704	27.5	6	1-				.25				1 1 1
HALE	24	0020	0026	0021	N23	E46	.810	8704	27.5	6	-N	1	C	0021	.21	.40			
GRP 3576	24	0040	0053	0039	N24	E37	.739	8704	26.8	13	1-				.75				3 2 2
SACP	24	0036U	0050D	0038U	N24	E40	.765	8704	27.0	14D	-F		C		1.11	1.39			
HALE	24	0037	0049	0040	N23	E38	.741	8704	26.9	12	-N	1	C	0040	.41	.60			
MANI	24	0047	0056		N25	E34	.721	8704	26.6	9	-F	2		0049	.21	.30			
GRP 3577	24	0047	0100	0048	N25	E31	.696	8704	26.4	13	1-				.55				1 1 1
HALE	24	0047	0100	0048	N25	E31	.696	8704	26.4	13	-N	1	C	0048	.46	.60			
GRP 3578	24	0131	0140	0134	N23	E38	.741	8704	26.9	9	1-				.62				1 1 1
HALE	24	0131	0140	0134	N23	E38	.741	8704	26.9	9	-N	1	C	0134	.52	.80			
GRP 3579	24	0133	0153	0137	N20	E58	.892	8704	28.4	20	1-				.42				1 1 1
MANI	24	0133	0153	0137	N20	E58	.892	8704	28.4	20	-F	2		0137	.52	.99			F
GRP 3580	24	0212	0220	0213	N23	E46	.810	8704	27.5	8	1-				.43				1 1 1
HALE	24	0212	0220	0213	N23	E46	.810	8704	27.5	8	-N	1	C	0213	.36	.60			
GRP 3581	24	0232	0242	0225	N26	E45	.817	8704	27.5	10	1-				.48				3 2 2
HALE	24	0223	0240	0225	N25	E46	.820	8704	27.5	17	-N	1	C	0225	.36	.60			
MANI	24	0224E	0234		N27	E46	.830	8704	27.6	10D	-F	2		0224	.62	1.07			
CRON	24	0240	0251	0243	N26	E44	.809	8704	27.4	11	-N		C		.40	.70		200	E
GRP 3582	24	0308	0333	0316	N23	E47	.819	8704	27.7	25	1-				.27				2 2 2
HALE	24	0308	0341	0318	N23	E46	.810	8704	27.6	33	-N	1	C	0318	.26	.40			
MANI	24	0312E	0324	0313	N23	E48	.827	8704	27.7	12D	-N	2		0313	.26	.45			
GRP 3583	24	0333	0350	0337	N25	W33	.712	8695	21.7	17	1-				.40				2 2 2
CRON	24	0333E	0349	0339	N24	W33	.704	8695	21.7	16D	-N		C		.30	.40		200	
HALE	24	0333	0350	0335	N25	W32	.704	8698	21.7	17	-B	1	C	0335	.41	.60			
GRP 3584	24	0357	0424	0400	N24	E40	.765	8704	27.2	27	1-				.55				2 2 2
HALE	24	0355	0415	0357	N24	E36	.731	8704	26.9	20	-N	1	C	0357	.62	.90			
MANI	24	0359	0432	0402	N23	E43	.785	8704	27.4	33	-F	2		0402	.41	.63			
GRP 3585	24	0521	0547	0525	N21	E56	.881	8704	28.4	26	1-				.98				1 1 1
MANI	24	0521	0547	0525	N21	E56	.881	8704	28.4	26	-N	1		0525	1.13	1.86			F
GRP 3586	24	0609	0727	0615	N23	E39	.750	8704	27.2	78	1				1.94				5 3 3
MANI	24	0607E	0739	0619	N23	E42	.776	8704	27.4	92D	1N	2		0619	1.34	2.13			F
SIBE	24	0607	0740D	0615	N22	E40	.753	8704	27.3	93D	2N		C	0621	3.80	5.60		86	FHIT
KODA	24	0614	0652	0646	N23	E37	.732	8704	27.0	38	-N		V	0639	1.29	1.90	1.84		E
CRON	24	0641E	0736	0646	N23	E38	.741	8704	27.1	55D	-B		C		.90	1.40		300	E
WEND	24	0715E	0734D		N23	E39	.750	8704	27.2	19D	2N		V		6.19				
GRP 3587	24	0647	0714	0648	N18	W45	.777	8695	20.9	27	1-				.80				1 1 1
CRON	24	0647	0714	0648	N18	W45	.777	8695	20.9	27	-F		C		.80	1.30		100	E
GRP 3588	24	0739	0836		N24	E47	.823	8704	27.8	57	1-				.86				2 2 2
MONT	24	0739E	0830D		N25	E45	.812	8704	27.7	51D	-N		C	0739	1.55				O
BUCA	24	0804E	0836		N22	E48	.822	8704	27.9	32D	-N		C	0807	.24	.40			
GRP 3589	24	0801	0828		N23	E32	.688	8704	26.7	27	1-				.34				1 1 1
BUCA	24	0801E	0828D		N23	E32	.688	8704	26.7	27D	-N		P	0804	.48	.70			F
GRP 3590	24	0808	0817	0810	N20	E55	.870	8704	28.5	9	1-				.21				1 1 1
MANI	24	0808	0817	0810	N20	E55	.870	8704	28.5	9	-N	2		0810	.26	.40			D
GRP 3591	24	0844	0903	0847	N21	E52	.851	8704	28.3	19	1-				.47				3 3 3
CRON	24	0843	0902	0848	N21	E52	.851	8704	28.3	19	-N		C		.40	.70		200	
ARCE	24	0845	0900	0845	N20	E55	.870	8704	28.5	15	-N		C	0845	.72	1.30			D
BUCA	24	0845E	0908D		N22	E48	.822	8704	28.0	23D	-N		C	0846	.40	.70			
GRP 3592	24	1024	1043		N24	E35	.722	8704	27.1	19	1-				1.49				2 2 2
ARCE	24	1020E	1020D		N24	E35	.722	8704	27.1		1N		P	1020	1.72	2.40			
WEND	24	1028	1043		N24	E35	.722	8704	27.1	15	1N		V		3.09				

SOLAR FLARES
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OBSERV-ATORY	DATE 1967 FEB	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION — MIN.	IM-POR-TANCE	OBS. COND.	TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP 3593	24	1155	1206		N21	E44	.783	8704	27.8	11	1-				.56				3 3 3
CAPS	24	1154E	1202		N20	E41	.750	8704	27.6	8D	-N	2		1156	.60	1.90		170	C
MEUD	24	1154	1203D		N22	E45	.797	8704	27.9	9D	-F		C	1154	.31	.40			D
MONT	24	1157	1210		N21	E47	.809	8704	28.0	13	-F		C	1157	.83				O
GRP 3594	24	1213	1239	1218	N24	E28	.662	8704	26.6	26	1-				.65				4 4 4
MONT	24	1211	1246D		N27	E30	.705	8704	26.8	35D	-N		C	1215	.52				OH
HUAN	24	1212	1239	1218	N25	E26	.655	8704	26.5	27	-N	2	C	1218	.45	.51			E
WEND	24	1215	1234		N23	E27	.644	8704	26.5	19	1N		V		3.09				
MEUD	24	1216E	1235		N22	E30	.661	8704	26.8	19D	-N		C	1217	.52	.60			E
GRP 3595	24	1258	1306	1302	N25	E30	.687	8704	26.8	8	1-				.73				3 3 2
WEND	24	1255	1308		N25	E30	.687	8704	26.8	13	-N								
HUAN	24	1258	1305	1301	N26	E30	.696	8704	26.8	7	-N	1	C	1301	.77	.91			E
MEUD	24	1300	1306	1302	N25	E30	.687	8704	26.8	6	-N		C	1302	.93	1.20			E
GRP 3596	24	1441	1448		N26	E43	.802	8704	27.8	7	1-				.19				1 1 1
HUAN	24	1441E	1448D		N26	E43	.802	8704	27.8	7D	-F	1	P	1442	.21	.27			D
GRP 3597	24	1517	1536	1523	N23	E33	.697	8704	27.1	19	1-				1.19				4 4 4
LOCA	24	1515	1535	1520	N23	E32	.688	8704	27.0	20	1N		V	1520	3.16	4.50			
SACP	24	1516E	1542U	1525U	N23	E32	.688	8704	27.0	26U	-F		C		1.34	1.56			
HUAN	24	1517E	1520D		N24	E34	.713	8704	27.2	3D	-N	1	P	1518	.35	.42			E
CAPS	24	1518	1532		N22	E33	.689	8704	27.1	14	-N	3		1522	.70	1.00		165	E
GRP 3598	24	1554	1609	1600	N24	E32	.696	8704	27.1	15	1-				.70				1 1 1
HOUS	24	1554	1609	1600	N24	E32	.696	8704	27.1	15	-N		C		.70	1.00		200	EI
GRP 3599	24	1637	1702	1644	S27	W14	.405	8700	23.6	25	1-				.39				2 2 2
HOUS	24	1637	1702D	1644	S27	W13	.397	8700	23.7	25D	-F		C		.30	.30		100	EH
HUAN	24	1642E	1655D		S27	W14	.405	8700	23.6	13D	-F	1	P	1645	.52	.52			E
GRP 3600	24	1639	1658	1646	N24	E32	.696	8704	27.1	19	1-				.70				1 1 1
HOUS	24	1639	1658	1646	N24	E32	.696	8704	27.1	19	-N		C		.70	1.00		200	EI
GRP 3601	24	1717	1738	1719	N24	E31	.687	8704	27.0	21	1-				.74				2 2 2
HALE	24	1716	1742	1719	N24	E30	.679	8704	27.0	26	-N	3	C	1719	.62	.80			EF
MCMA	24	1718	1733	1719	N24	E32	.696	8704	27.1	15	-N		C	1719	.52	.70			E
GRP 3602	24	1749	1821	1752	N24	E32	.696	8704	27.1	32	1-				.75				2 2 2
MCMA	24	1745	1820	1752	N24	E32	.696	8704	27.1	35	-N		C	1752	.52	.70			E
HUAN	24	1752	1822		N24	E31	.687	8704	27.1	30	-N	1	P	1800	.88	1.00			E
GRP 3603	24	1900	1944	1910	N24	E29	.670	8704	27.0	44	2-				4.04				5 3 3
HALE	24	1900	1940	1906	N25	E28	.671	8704	26.9	40	1B	2	C	1906	3.61	4.90			EF
SACP	24	1900	1943U	1907	N24	E29	.670	8704	27.0	43U	2B		C		6.32	7.24			
HUAN	24	1909E	1931D		N24	E30	.679	8704	27.0	22D	1B	1	P	1909	2.89	3.30			H
HOUS	24	1912E	1948	1914	N24	E30	.679	8704	27.0	36D	1N		C		3.20	4.40		200	BEI
MCMA	24	1913E	1938D	1913	N22	E30	.661	8704	27.1	25D	1N		P	1913	2.06	2.70			E
GRP 3604	24	1948	2004	1950	N24	E29	.670	8704	27.0	16	1-				.32				2 2 2
HOUS	24	1947	2001	1950	N23	E30	.670	8704	27.1	14	-N		C		.20	.30		200	EI
HALE	24	1949	2007	1950	N24	E27	.653	8704	26.9	18	-N	1	C	1950	.36	.50			
GRP 3605	24	2041	2053	2043	N23	E30	.670	8704	27.1	12	1-				.30				1 1 1
HOUS	24	2041	2053	2043	N23	E30	.670	8704	27.1	12	-F		C		.30	.40		100	EI
GRP 3606	24	2110	2142	2114	N24	E31	.687	8704	27.2	32	1				.32				2 2 2
HUAN	24	2110	2200D	2117	N24	E29	.670	8704	27.1	50D	1F	1	P	2117	.37	.43			E
HOUS	24	2110	2124	2114	N24	E32	.696	8704	27.3	14	-N		C		.30	.40		200	EI
GRP 3607	24	2301	2313	2303	N23	E26	.635	8704	26.9	12	1-				.20				1 1 1
HOUS	24	2301	2313	2303	N23	E26	.635	8704	26.9	12	-F		C		.20	.30		100	
GRP 3608	24	2341	0012	0000	N21	E33	.681	8704	27.5	31	2-				3.82				3 3 3
HALE	24	2303	2357	2334	N19	E38	.715	8704	27.8	54	1B	1	C	2334	1.75	2.50			EF
MANI	24	2355	0015	2359	N23	E31	.679	8704	27.3	20	1F	2		2359	1.65	2.29			F
IKOM	25	0005	0023		N22	E30	.661	8704	27.3	18	2B		P	0005	7.22	9.40			FO
GRP 3609	24	2315	2320	2316	N14	W56	.861	8695	20.8	5	1-				.25				1 1 1
HALE	24	2315	2320	2316	N14	W56	.861	8695	20.8	5	-B	1	C	2316	.21	.40			
GRP 3610	24	2337	2348	2340	N16	W80	.991	8693	19.0	11	1-				.20				1 1 1
CRON	24	2337	2348	2340	N16	W80	.991	8693	19.0	11	-F		C		.20	.70		100	
GRP 3611	24	2355	2359	2356	N25	E24	.639	8704	26.8	4	1-				1.24				1 1 1
HALE	24	2355	2359D	2356	N25	E24	.639	8704	26.8	4D	-B	1	P	2356	1.03	1.30			
GRP 3612	25	0502	0516	0506	N27	E21	.639	8704	26.8	14	1-				.40				1 1 1
CRON	25	0502	0516	0506	N27	E21	.639	8704	26.8	14	-N		C		.40	.50		200	
GRP 3613	25	0624	0643	0633	N23	E18	.572	8704	26.6	19	1-				.64				2 2 2
CRON	25	0624	0640	0633	N24	E15	.565	8704	26.4	16	-N		C		.90	1.10		200	EI
MANI	25	0625E	0645		N22	E21	.583	8704	26.8	20D	-N	1		0627	.41	.51			
GRP 3614	25	0715	0758	0722	N26	E27	.673	8704	27.3	43	1-				.53				4 2 2
BUCA	25	0715E	0722D		N28	E29	.706	8704	27.5	7D	-F		P	0718	.65	.90			
CRON	25	0715	0748	0722	N27	E27	.682	8704	27.3	33	-N		C		.60	.80		200	I
CATA	25	0740E	0800D	0740	N25	E24	.639	8704	27.1	20D	1B			0740	1.62	2.00		275	
MONT	25	0749E	0805D		N25	E26	.655	8704	27.3	16D	1N		C	0754	2.48				OH
GRP 3615	25	0735	0742		N23	E21	.595	8704	26.9	7	1+								1 1 0
ONDE	25	0735E	0742D		N23	E21	.595	8704	26.9	7D	1B		V	0738			3.90		C

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OBSERVATORY	DATE	OBSERVED UT 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
	1967 FEB																		
GRP 3616	25	0806	0828	0808	N21	E17	.541	8704	26.6	22	1-				.60				1 1 1
CRON	25	0806	0828	0808	N21	E17	.541	8704	26.6	22	-N		C		.60	.70		200	IJ
GRP 3617	25	0809	0850	0834	N24	E27	.653	8704	27.4	41	1-				.46				2 2 1
BUCA	25	0807E	0841D		N23	E23	.610	8704	27.1	34D	-N		P	0807	.65	.80			
ISTA	25	0810	0850	0834	N24	E30	.679	8704	27.6	40	1B								
GRP 3618	25	0820	0825		N18	W62	.915	8695	20.7	5	1-								1 1 0
ISTA	25	0820	0825		N18	W62	.915	8695	20.7	5	-F								
GRP 3619	25	0840	0845		S23	E13	.345	8703	26.3	5	1-								1 1 0
ISTA	25	0840	0845		S23	E13	.345	8703	26.3	5	-F								
GRP 3620	25	0900	0923	0905	N24	E23	.621	8704	27.1	23	1-				.64				3 3 2
ISTA	25	0859	0920		N23	E21	.595	8704	26.9	21	1N								
CRON	25	0901	0922	0905	N24	E23	.621	8704	27.1	21	-N		C		.70	.90		200	EI
BUCA	25	0903E	0927D		N24	E24	.629	8704	27.2	24D	-N		C	0904	.81	1.00			
GRP 3621	25	0926	1023		N26	E29	.688	8704	27.6	57	1				1.83				2 2 2
BUCA	25	0926E	1023D		N26	E33	.721	8704	27.9	57D	-N		C	0934	.81	1.20			
MONT	25	0930E	0938D		N25	E25	.647	8704	27.3	8D	1B		C	0932	3.09				O
GRP 3622	25	1050	1055		N23	E24	.619	8704	27.3	5	1-				.22				1 1 1
BUCA	25	1050E	1055		N23	E24	.619	8704	27.3	5D	-F		C	1051	.32	.40			
GRP 3623	25	1131	1208		N24	E25	.637	8704	27.4	37	1				1.53				2 2 2
MONT	25	1107E	1154D		N25	E25	.647	8704	27.3	47D	1N		C	1107	2.06				O
CAPS	25	1154	1208		N22	E24	.608	8704	27.3	14	-N	3		1200	1.00	1.30		190	FJ
GRP 3624	25	1205	1218		N25	E15	.578	8704	26.6	13	1-								1 1 0
WEND	25	1205	1218		N25	E15	.578	8704	26.6	13	-N								
GRP 3625	25	1322	1413	1414	N25	E27	.663	8704	27.6	51	1				1.97				5 5 5
CAPS	25	1309E	1329D		N24	E28	.662	8704	27.6	20D	1N	3		1314	1.80	2.30		170	
MONT	25	1309E	1410		N26	E29	.688	8704	27.7	61D	1B		C	1309	3.09				OH
HUAN	25	1310E	1333D		N26	E26	.665	8704	27.5	23D	1F	1	P	1317	2.16	2.45			EI
MCMA	25	1321E	1400		N25	E24	.639	8704	27.4	39D	1N		C	1322	2.27	3.00			BE
HOUS	25	1401	1428	1414	N26	E28	.680	8704	27.7	27	-F		C		.20	.30		100	
GRP 3626	25	1509	1528	1520	N27	E16	.609	8704	26.8	19	1				1.23				2 2 2
HOUS	25	1509	1525	1520	N26	E14	.585	8704	26.7	16	-F		C		.40	.50		100	EH
MONT	25	1516E	1530		N27	E18	.620	8704	27.0	14D	1N		C	1516	2.06				OH
GRP 3627	25	1515	1533	1518	N23	E28	.652	8704	27.7	18	1-				.20				1 1 1
HOUS	25	1515	1533	1518	N23	E28	.652	8704	27.7	18	-F		C		.20	.30		100	EI
GRP 3628	25	1558	1608	1601	N24	E18	.584	8704	27.0	10	1-				.20				1 1 1
HOUS	25	1558	1608	1601	N24	E18	.584	8704	27.0	10	-N		C		.20	.20		200	I
GRP 3629	25	1611	1740	1719	N25	E21	.617	8704	27.2	89	1-				1.34				3 3 3
HOUS	25	1611	1740	1719	N25	E20	.610	8704	27.2	89	-N		C		.60	.80		200	EI
MCMA	25	1640E	1715D		N25	E20	.610	8704	27.2	35D	-N		C	1700	1.03	1.20			F
HUAN	25	1648E	1726D		N25	E22	.624	8704	27.3	38D	1N	1	P	1653	2.63	2.88			EI
GRP 3630	25	1715	1732	1723	N17	W60	.899	8695	21.2	17	1-				.20				1 1 1
HOUS	25	1715	1732	1723	N17	W60	.899	8695	21.2	17	-N		C		.20	.40		200	
GRP 3631	25	1741	1753	1744	N26	E08	.560	8704	26.3	12	1-				.50				2 2 2
HOUS	25	1739	1751	1744	N27	E06	.568	8704	26.2	12	-N		C		.20	.30		200	E
HALE	25	1743	1754	1744	N25	E09	.549	8704	26.4	11	-N	3	C	1744	.67	.80			
GRP 3632	25	1745	1756	1750	N17	W60	.899	8695	21.2	11	1-				.20				1 1 1
HOUS	25	1745	1756	1750	N17	W60	.899	8695	21.2	11	-F		C		.20	.40		100	E
GRP 3633	25	1748	1843	1821	N27	E27	.682	8704	27.8	55	1-				1.09				2 1 2
HOUS	25	1748	1843	1821	N27	E26	.675	8704	27.7	55	-N		C		.60	.80		200	EI
HUAN	25	1809E	1833D		N26	E27	.673	8704	27.8	24D				1821	2.00	2.29			
GRP 3634	25	1806	1829	1810	N27	E13	.593	8704	26.7	23	1				2.21				4 4 4
HOUS	25	1805	1828	1810	N28	E13	.606	8704	26.7	23	-N		C		1.10	1.40		200	H
HALE	25	1806	1831	1810	N26	E12	.576	8704	26.7	25	1B	3	C	1810	3.30	4.00			HF
MCMA	25	1807	1825	1810	N28	E12	.602	8704	26.7	18	1B		C	1810	1.70	2.10			EH
HUAN	25	1809E	1833D		N27	E13	.593	8704	26.7	24D	1N	1	P	1810	1.63	1.77			H
GRP 3635	25	1825	1852	1831	N17	W61	.906	8695	21.2	27	1-				.10				1 1 1
HOUS	25	1825	1852	1831	N17	W61	.906	8695	21.2	27	-N		C		.10	.20		200	
GRP 3636	25	1846	1947	1858	N27	E26	.675	8704	27.7	61	1+				3.03				4 3 3
HOUS	25	1843	1942	1858	N27	E26	.675	8704	27.7	59	-N		C		1.40	1.90		200	EI
MCMA	25	1843	1948D	1910	N27	E26	.675	8704	27.7	65D	2B		C	1910	4.13	5.50			EFK
HALE	25	1852	1952U	1858	N27	E25	.667	8704	27.7	60U	1B	2	C	1858	1.86	2.50			K
SACP	25	1910E	1917D	1911U	N26	E27	.673	8704	27.8	7D	1N		P		2.63	3.00			
GRP 3637	25	1950	2016	1957	N24	E19	.591	8704	27.3	26	1+				1.15				3 3 2
MCMA	25	1948	2015	1955	N25	E20	.610	8704	27.3	27	2B		C						
HALE	25	1950	2006D	1957	N24	E19	.591	8704	27.3	16D	-B	2	P	1957	1.08	1.40			
HOUS	25	1951	2017	2000	N23	E19	.580	8704	27.3	26	-N		C		1.00	1.20		200	I
GRP 3638	25	2041	2044	2042	S25	E04	.313	8703	26.2	3	1-				.43				1 1 1
HALE	25	2041	2044	2042	S25	E04	.313	8703	26.2	3	-N	2	C	2042	.36	.40			
GRP 3639	25	2053	2123	2059	N26	E13	.580	8704	26.8	30	1-				.46				3 2 2
HOUS	25	2051	2121	2102	N26	E13	.580	8704	26.8	30	-N		C		.30	.40		200	I
HALE	25	2054	2124	2056	N25	E12	.562	8704	26.8	30	-N	2	C	2056	.52	.60			
MCMA	25	2105E	2110D		N26	E13	.580	8704	26.9	5D	-N		P	2105	.62	.80			E

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OBSERV- ATORY	DATE 1967 FEB	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA- TION — MIN.	IM- POR- TANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
GRP 3640	25	2259	2332	2312	N26	E12	.576	8704	26.9	33	1-				1.12				1 1 1
HALE	25	2259	2332	2312	N26	E12	.576	8704	26.9	33	-N	1	C	2312	.93	1.10			K
GRP 3641	26	0016	0043	0020	N24	E13	.554	8704	27.0	27	1-				.49				1 1 1
HALE	26	0016	0043	0020	N24	E13	.554	8704	27.0	27	-N	1	C	0020	.41	.50			FT
GRP 3642	26	0049	0105	0057	N23	E15	.553	8704	27.2	16	1-				.74				1 1 1
HALE	26	0049	0105	0057	N23	E15	.553	8704	27.2	16	-N	1	C	0057	.62	.70			T
GRP 3643	26	0122	0159	0144	N26	E09	.564	8704	26.7	37	1-				1.24				2 2 2
HALE	26	0122	0202	0142	N27	E09	.577	8704	26.7	40	-B	2	C	0142	1.29	1.60			TH
MANI	26	0142E	0156	0145	N25	E09	.550	8704	26.7	14D	-N	1		0145	1.03	1.23			
GRP 3644	26	0225	0239	0233	N25	E10	.554	8704	26.9	14	1-				.18				1 1 1
HALE	26	0225	0239	0233	N25	E10	.554	8704	26.9	14	-N	2	C	0233	.15	.20			T
GRP 3645	26	0302	0313	0305	N26	E15	.591	8704	27.3	11	1-				.74				1 1 1
HALE	26	0302	0313	0305	N26	E15	.591	8704	27.3	11	-F	2	C	0305	.62	.80			T
GRP 3646	26	0317	0337	0322	N24	E11	.544	8704	27.0	20	1-				.37				1 1 1
HALE	26	0317	0337	0322	N24	E11	.544	8704	27.0	20	-N	2	C	0322	.31	.40			T
GRP 3647	26	0348	0354	0352	N18	W68	.949	8695	21.1	6	1-				.18				1 1 1
HALE	26	0348	0354	0352	N18	W68	.949	8695	21.1	6	-F	2	C	0352	.15				
GRP 3648	26	0354	0407	0402	N25	E10	.554	8704	26.9	13	1-				.62				1 1 1
HALE	26	0354	0407	0402	N25	E10	.554	8704	26.9	13	-F	2	C	0402	.52	.60			T
GRP 3649	26	0424	0432		N21	E10	.497	8704	26.9	8	1-				.23				1 1 1
MANI	26	0424E	0432		N21	E10	.497	8704	26.9	8D	-N	2		0425	.26	.30			
GRP 3650	26	0623	0635		N24	E08	.532	8704	26.9	12	1-				.26				2 2 2
MANI	26	0620E	0630		N23	E05	.508	8704	26.6	10D	-N	1		0622	.41	.48			
IKOM	26	0626	0640		N24	E10	.540	8704	27.0	14	-N		P	0626	.31	.40			DO
GRP 3651	26	0750	0910		N25	E08	.546	8704	26.9	80	1-				.46				2 2 1
BUCA	26	0730E	0932D		N24	E07	.529	8704	26.8	122D	-F		C	0847	.65	.80			
ISTA	26	0810	0847		N25	E09	.550	8704	27.0	37	-F								
GRP 3652	26	0741	0757		N12	W08	.354	8702	25.7	16	1-				.59				2 2 2
BUCA	26	0741E	0757D		N12	W08	.354	8702	25.7	16D	-F		C	0743	.65	.70			
CAPS	26	0743E	0750D		N12	W08	.354	8702	25.7	7D	-F	3		0744	.70	.80		140	G
GRP 3653	26	0853	0932	0909	N26	E19	.615	8704	27.8	39	1				1.50				9 7 5
BUCA	26	0844E	0941D		N28	E16	.621	8704	27.6	57D	1B		C	0901	1.64	2.10			
ISTA	26	0852	0930		N25	E21	.617	8704	27.9	38	-B								
CAPS	26	0855	0918D		N28	E19	.638	8704	27.8	23D	1B	2		0859	1.80	2.30		210	
KODA	26	0855	0914	0905	N27	E18	.621	8704	27.7	19	1N		V	0902	1.93	2.30	1.80		D
ONDE	26	0856E	0930		N26	E18	.609	8704	27.7	34D	-N		V	0907			2.40		
WEND	26	0857	0925		N24	E22	.614	8704	28.0	28	1N		V		4.13				
MONT	26	0906E	0950D		N28	E18	.632	8704	27.7	44D	-B		C	0906	1.03				O
CAPF	26	0912E	0931	0912	N24	E19	.592	8704	27.8	19D	1N		P	0917	1.76	2.20			
UCCL	26	0924E	0928D		N26	E20	.622	8704	27.9	4D	1N		P	0924	1.80	3.60			BIJ
GRP 3654	26	1021	1155		N19	E20	.541	8704	27.9	94	1-				1.47				1 1 1
BUCA	26	1021E	1155D		N19	E20	.541	8704	27.9	94D	1N		P	1021	1.97	2.30			U
GRP 3655	26	1034	1150		N27	E03	.563	8704	26.7	76	1-				.46				1 1 1
BUCA	26	1034E	1150D		N27	E03	.563	8704	26.7	76D	-F		C	1043	.65	.80			
GRP 3656	26	1421	1429		N21	E03	.474	8704	26.8	8	1-				1.01				1 1 1
CAPS	26	1421E	1429D		N21	E03	.474	8704	26.8	8D	-F	3		1423	1.00	1.10		145	CH
GRP 3657	26	1519	1543	1526	S20	E34	.579	8706	1.2	24	1-				1.24				2 2 2
MCMA	26	1519	1543	1526	S20	E34	.579	8706	1.2	24	-N		C	1526	1.29	1.60			E
HUAN	26	1520E	1537D		S20	E33	.566	8706	1.1	17D	-F	1	P	1525	.74	.79			E
GRP 3658	26	1822	1917	1822	S20	E32	.553	8706	1.2	55	1-				.25				1 1 1
HALE	26	1822E	1917	1822E	S20	E32	.553	8706	1.2	55D	-F	1	P	1822	.21	.22			
GRP 3659	26	1853	1926	1905	N14	W22	.506	8702	25.1	33	1-				.25				1 1 1
HALE	26	1853	1926	1905	N14	W22	.506	8702	25.1	33	-F	2	C	1905	.21	.22			
GRP 3660	26	1930	1957	1939	N16	E40	.718	8707	1.8	27	1-				.25				1 1 1
HALE	26	1930	1957	1939U	N16	E40	.718	8707	1.8	27	-F	2	P	1939	.21	.30			F
GRP 3661	26	2038	2142	2059	S20	E29	.513	8706	1.0	64	1-				.49				1 1 1
HALE	26	2038	2142D	2059	S20	E29	.513	8706	1.0	64D	-N	1	P	2059	.41	.50			F
GRP 3662	26	2039	2055	2046	S13	E42	.665	8706	2.0	16	1-				.25				1 1 1
HALE	26	2039	2055	2046	S13	E42	.665	8706	2.0	16	-N	1	C	2046	.21	.30			
GRP 3663	26	2306	2332	2318	N15	E45	.764	8707	2.3	26	1-				.25				1 1 1
HALE	26	2306	2332	2318	N15	E45	.764	8707	2.3	26	-F	1	C	2318	.21	.30			
GRP 3664	26	2308	2326	2318	N26	E11	.571	8704	27.8	18	1-				.30				1 1 1
CRON	26	2308	2326	2318	N26	E11	.571	8704	27.8	18	-N		C		.30	.40		200	
	27	9990	9985	NO FLARE PATROL															
GRP 3665	27	0147	0208	0150	N22	E06	.497	8704	27.5	21	1-				.25				1 1 1
HALE	27	0147	0208	0150	N22	E06	.497	8704	27.5	21	-N	1	C	0150	.21	.21			
GRP 3666	27	0251	0320	0255	N23	W00	.503	8704	27.1	29	1-				1.13				3 2 2
CRON	27	0250	0317	0255	N22	W01	.488	8704	27.0	27	-N		C		.90	1.00		200	E
HALE	27	0252	0325	0254	N23	W02	.504	8704	27.0	33	-N	1	C	0254	1.13	1.30			F
MANI	27	0302E	0318		N23	E02	.504	8704	27.3	16D	-F	1		0303	.72	.85			

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OBSERVATORY	DATE 1967 FEB	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP 3667	27	0430	0441	0431	N25	E02	.534	8704	27.3	11	1-				.60				1 1 1
CRON	27	0430E	0441	0431U	N25	E02	.534	8704	27.3	11D	-N		C		.60	.70		200	E
GRP 3668	27	0504	0527	0509	N25	W01	.533	8704	27.1	23	1-				.74				2 2 2
MANI	27	0503E	0537		N24	W05	.524	8704	26.8	34D	-N	3		0531	.41	.49			
CRON	27	0505U	0516	0509	N26	E03	.549	8704	27.4	11U	-F		C		1.10	1.30		100	
GRP 3669	27	0806	0835		N24	E03	.520	8704	27.6	29	1-				.31				2 2 1
ISTA	27	0750	0830		N24	E01	.518	8704	27.4	40	-N								
MONT	27	0822	0840		N24	E05	.524	8704	27.7	18	-F		C	0830	.31				O
GRP 3670	27	0840	0855		S23	E80	.978	8711	5.4	15	1-								1 1 0
ISTA	27	0840	0855		S23	E80	.978	8711	5.4	15	-N								
GRP 3671	27	0847	0910		N24	E01	.518	8704	27.4	23	1-				.67				4 4 2
ISTA	27	0845	0910		N22	E00	.488	8704	27.4	25	-N								
MONT	27	0848	0905		N24	E03	.520	8704	27.6	17	-N		C	0856	.83				O
BUCA	27	0850E	0913D		N25	W04	.536	8704	27.1	23D	-N		C	0858	.72	.80			
CAPS	27	0859E	0910		N25	E04	.536	8704	27.7	11D	-F	3							CH
GRP 3672	27	0910	0950		S14	E34	.560	8706	1.9	40	1-								1 1 0
ISTA	27	0910	0950		S14	E34	.560	8706	1.9	40	-N								
GRP 3673	27	0915	1004	0934	S19	E24	.441	8706	1.2	49	1-				.87				4 4 4
BUCA	27	0912E	1050D		S17	E24	.429	8706	1.2	98D	-N		C	0922	1.31	1.50			
MONT	27	0917	0950	0930	S20	E25	.460	8706	1.3	33	-N		C	0930	.31				O
CATA	27	0918E	1000D	0938	S19	E24	.441	8706	1.2	42D	-N			0938	1.01	1.10		198	
CAPS	27	0919E	0937		S18	E23	.421	8706	1.1	18D	-F	3		0923	1.20	1.30		158	E
GRP 3674	27	0932	0942	0932	N19	E23	.568	8707	1.1	10	1-				.72				1 1 1
CAPF	27	0932E	0942D	0932	N19	E23	.568	8707	1.1	10D	-N		P	0933	1.46	1.60			
GRP 3675	27	0938	0948		N25	W05	.538	8704	27.0	10	1-				.34				1 1 1
BUCA	27	0938E	0948D		N25	W05	.538	8704	27.0	10D	-F		P	0940	.48	.60			
GRP 3676	27	1025	1055	1035	N24	E03	.520	8704	27.7	30	1-				1.03				1 1 1
MONT	27	1025	1055	1035	N24	E03	.520	8704	27.7	30	-N		C	1035	1.03				O
GRP 3677	27	1106	1210		N25	W01	.533	8704	27.4	64	1-				1.32				2 2 2
BUCA	27	1104E	1129D		N25	W03	.535	8704	27.2	25D	-N		C	1113	.81	1.00			
MONT	27	1107	1210		N24	E01	.518	8704	27.5	63	1N		C	1130	2.06				O
GRP 3678	27	1228	1245	1230	N24	E00	.518	8704	27.5	17	1-				1.03				1 1 1
MONT	27	1228E	1245	1230	N24	E00	.518	8704	27.5	17D	-N		C	1230	1.03				O
GRP 3679	27	1258	1337	1315	N23	E02	.504	8704	27.7	39	1-				1.15				3 3 3
MONT	27	1258	1347	1315	N24	E00	.518	8704	27.5	49	-N		C	1315	1.24				O
ATHN	27	1306E	1327		N22	W03	.490	8704	27.3	21D	-N	2		1307	.99	1.20	1.70		
CATA	27	1315E	1330D	1315	N24	W03	.520	8704	27.3	15D	-N			1315	1.21	1.40		170	
GRP 3680	27	1302	1325		N23	W06	.511	8704	27.1	23	1-				1.01				1 1 1
CAPS	27	1302E	1325		N23	W06	.511	8704	27.1	23D	-B	3		1305	1.00	1.10		190	CEK
GRP 3681	27	1418	1431	1423	N24	E01	.518	8704	27.7	13	1-				.75				2 2 2
MONT	27	1418	1435	1423	N24	E01	.518	8704	27.7	17	-N		C	1423	.83				O
ATHN	27	1422E	1426		N23	W04	.507	8704	27.3	4D	-N	2		1422	.66	.80	1.80		
GRP 3682	27	1425	1440		N20	E45	.787	8707	3.0	15	1-				.31				1 1 1
MONT	27	1425	1440D		N20	E45	.787	8707	3.0	15D	-F		C	1430	.31				O
GRP 3683	27	1429	1508	1429	N16	E32	.633	8707	2.0	39	1-				.84				1 1 1
CAPF	27	1429E	1508D	1429	N16	E32	.633	8707	2.0	39D	-N		P	1431	1.76	1.90			
GRP 3684	27	1456	1501	1457	N24	W01	.518	8704	27.5	5	1-				.66				1 1 1
ATHN	27	1456E	1501	1457	N24	W01	.518	8704	27.5	5D	-B	2		1457	.66	.80	2.00		
GRP 3685	27	1505	1525		N23	W03	.505	8704	27.4	20	1-				1.06				3 3 3
CAPS	27	1505E	1516D		N22	W03	.490	8704	27.4	11D	-B	3		1507	1.20	1.40		225	
ATHN	27	1507E	1520		N22	W05	.494	8704	27.3	13D	-N	2		1508	.99	1.20	1.70		
LOCA	27	1512E	1530		N24	W02	.519	8704	27.5	18D	-B		V	1512	1.05	1.20			
GRP 3686	27	1555	1558		S25	W75	.958	8700	22.0	3	1-				.18				1 1 1
HUAN	27	1555E	1558D		S25	W75	.958	8700	22.0	3D	-F	1	P	1556	.25				D
	27	1605	1610	NO FLARE PATROL															
GRP 3687	27	1636	1647	1638	N21	E22	.581	8707	1.3	11	1-				.82				1 1 1
LOCK	27	1636	1647	1638	N21	E22	.581	8707	1.3	11	-B		C	1638	.80	1.00		30	
GRP 3688	27	1637	1830	1644	N27	E02	.563	8704	27.8	113	2+				9.60				3 1 1
LOCK	27	1637	1830	1644	N27	E01	.562	8704	27.8	113	2B		C	1644	8.00	9.60		40	H
SACP	27	1657E	1812D	1714	N26	E03	.549	8704	27.9	75D	2N		C		5.86	6.17			
HUAN	27	1737E	1815D		N27	E03	.564	8704	28.0	38D	1N	1	P	1741	1.83	1.85			L
GRP 3689	27	1815	1835	1825	N23	W73	.976	8695	22.3	20	1-				.26				1 1 1
LOCK	27	1815	1835	1825	N23	W73	.976	8695	22.3	20	-F		C	1825	.30	.90		10	
GRP 3690	27	1912	1938	1915	N24	W04	.522	8704	27.5	26	1-				.77				2 2 2
LOCK	27	1912	1935	1915	N24	W04	.522	8704	27.5	23	-N		C	1915	.80	1.00		20	
SACP	27	1914E	1941	1914	N23	W03	.505	8704	27.6	27D	-N		C		.80	.83			
GRP 3691	27	1917	1945	1923	N15	E26	.559	8707	1.8	28	1-				.50				1 1 1
LOCK	27	1917	1945	1923	N15	E26	.559	8707	1.8	28	-F		C	1923	.50	.60		10	K
GRP 3692	27	1949	2020	1958	N24	W66	.948	8698	22.9	31	1-				.64				2 2 2
SACP	27	1945	2007D	1956	N25	W66	.950	8698	22.9	22D	-F		C		.90	1.80			
LOCK	27	1952	2020	1959	N22	W65	.940	8698	23.0	28	-F		C	1959	.50	1.30		10	

SOLAR FLARES
REVISED

FEBRUARY 1967

OBSERVATORY	DATE 1967 FEB	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP 3693	27	2051	2256	2129	N23	W07	.514	8704	27.3	125	2-				4.32				2 2 2
LOCK	27	2048	2240	2127	N22	W06	.497	8704	27.4	112	1B		C	2127	3.00	3.60		30	
SACP	27	2054	2311	2131	N24	W07	.529	8704	27.3	137	2N		C		5.59	5.83			
GRP 3694	27	2145	2205	2150	S21	E16	.354	8706	1.1	20	1-				.61				1 1 1
LOCK	27	2145	2205	2150	S21	E16	.354	8706	1.1	20	-F		C	2150	.60	.70		10	
GRP 3695	27	2207	2213	2208	N13	E72	.963	8714	5.3	6	1-				.41				1 1 1
SACP	27	2207	2213	2208	N13	E72	.963	8714	5.3	6	-N		C		.45	.98			
GRP 3696	27	2337	0029	2346	N28	W02	.577	8704	27.8	52	1				2.22				4 4 4
LOCK	27	2335	0030	2345	N29	W03	.592	8704	27.8	55	-B		C	2345	1.50	1.80		30	K
SACP	27	2335	0055D	2343	N29	E01	.591	8704	28.1	80D	2N		C		5.05	5.45			
MITK	27	2340E	0000		N29	E00	.590	8704	28.0	20D	-N		C	2346	1.44	1.80			E
IKOM	27	2340	0032D	2350	N24	W05	.524	8704	27.6	52D	1B		V	2350	2.06	2.50		130	E
GRP 3697	28	0036	0050	0040	N24	W14	.560	8704	27.0	14	1-				.19				1 1 1
LOCK	28	0036	0050	0040	N24	W14	.560	8704	27.0	14	-F		C	0040	.20	.20		10	
	28	9945	0120	NO FLARE PATROL															
GRP 3698	28	0742	0756	0744	N20	W02	.458	8704	28.2	14	1-				.66				1 1 1
ATHN	28	0742	0756	0744	N20	W02	.458	8704	28.2	14	-N	2		0744	.66	.80	1.60		
GRP 3699	28	1038	1252	1230	N31	W90	1.002	8698	21.7	134	1-				.37				2 2 1
CATA	28	0845E	1245D	1230	N30	W90	1.002	8698	21.6	240D	-N			1230	.37			155	
MONT	28	1230	1252D		N32	W90	1.002	8698	21.8	22D	-B								
GRP 3700	28	0925	0950	0925	N17	E23	.548	8707	2.1	25	1-				.13				1 1 1
CAPF	28	0925E	0950D	0925	N17	E23	.548	8707	2.1	25D	-B		V	0925	.26	.30			D
GRP 3701	28	1118	1130	1114	N16	E19	.498	8707	1.9	12	1-				.66				3 1 1
ATHN	28	1113	1129	1114	N15	E23	.527	8707	2.2	16	-N	1		1114	.66	.80	1.60		
MONT	28	1118E	1120D		N18	E19	.521	8707	1.9	2D	-N			1118	.41				O
NERA	28	1123U	1130		N16	E15	.462	8707	1.6	7U	1N	3							
GRP 3702	28	1118	1120		N22	W19	.568	8704	27.0	2	1-				.41				1 1 1
MONT	28	1118E	1120D		N22	W19	.568	8704	27.0	2D	-N			1118	.41				O
GRP 3703	28	1120	1134	1123	S27	W85	.991	8700	22.1	14	1-				.33				1 1 1
ATHN	28	1120E	1134D	1123	S27	W85	.991	8700	22.1	14D	-N	1		1123	.33		1.70		
GRP 3704	28	1158	1213	1201	N17	E20	.519	8707	2.0	15	1-				.64				3 3 3
UCCL	28	1158	1203		N16	E20	.508	8707	2.0	5	-N		C	1158	1.29	1.70			
MONT	28	1159E	1215	1201	N18	E19	.521	8707	1.9	16D	-N		C	1201	.41				O
CATA	28	1200E	1220D	1200	N17	E20	.519	8707	2.0	20D	-N			1220	.62	.70		178	
	28	1310	1320	NO FLARE PATROL															
GRP 3705	28	1333	1348		N32	W80	.997	8698	22.6	15	1-								1 1 0
LOCA	28	1333E	1348D		N32	W80	.997	8698	22.6	15D	1N		V						A
GRP 3706	28	1347	1412	1357	N24	W21	.606	8704	27.0	25	1-				.74				2 2 2
SACP	28	1347	1412	1358	N23	W21	.595	8704	27.0	25	-F		C		.83	.89			
UCCL	28	1352E	1401D	1355	N25	W20	.611	8704	27.1	9D	-N		P	1355	1.03	1.60			DI
GRP 3707	28	1403	1409		N33	W90	1.002	8698	21.8	6	1				.20				1 1 1
HUAN	28	1403E	1409		N33	W90	1.002	8698	21.8	6D	-F	1	P	1406	.31				D
GRP 3708	28	1441	1458		S26	W88	.996	8700	22.0	17	1-				.22				2 2 1
HUAN	28	1441E	1456D		S25	W88	.996	8700	22.0	15D	-N	1	P	1453	.33				E
MCMA	28	1443E	1458		S26	W88	.996	8700	22.0	15D	-N		C	1443					D
GRP 3709	28	1512	1515		N33	W90	1.002	8698	21.9	3	1				.14				1 1 1
HUAN	28	1512E	1515D		N33	W90	1.002	8698	21.9	3D	-F	1	P	1512	.21				D
GRP 3710	28	1558	1632	1611	N29	W09	.605	8704	28.0	34	1				1.83				4 4 4
SACP	28	1555	1635	1614	N28	W08	.588	8704	28.1	40	1N		C		2.61	2.82			
MCMA	28	1600	1630	1608	N29	W10	.608	8704	27.9	30	-B		C	1608	1.03	1.30			EH
HUAN	28	1600	1631		N28	W09	.591	8704	28.0	31	1N	1	C	1607	2.12	2.33			
LOCK	28	1610E	1631	1610U	N29	W09	.605	8704	28.0	21D	1B		C	1610	1.60	2.10		30	
GRP 3711	28	1610	1627	1610	N30	W82	.998	8698	22.5	17	1-				.42				1 1 1
LOCK	28	1610E	1627	1610U	N30	W82	.998	8698	22.5	17D	-F		C	1610	.50	1.70		10	
GRP 3712	28	1721	1818	1740	N17	E14	.468	8707	1.8	57	1-				1.03				4 4 4
SACP	28	1657	1831	1740	N16	E14	.454	8707	1.8	94	1N		C		2.82	2.87			
MCMA	28	1719	1747	1738	N17	E14	.468	8707	1.8	28	-N		C	1738	.26	.30			DH
LOCK	28	1733	1827	1736	N18	E14	.481	8707	1.8	54	-N		C	1802	.80	1.00		20	
HALE	28	1736	1825	1737	N17	E12	.453	8707	1.6	49	-B	2	C	1737	.31	.32			H
GRP 3713	28	1711	1739	1720	N27	W11	.585	8704	27.9	28	1-				1.05				3 3 3
SACP	28	1705	1748	1723	N27	W12	.590	8704	27.8	43	-N		C		1.36	1.46			
LOCK	28	1713	1733	1719	N27	W12	.590	8704	27.8	20	-N		C	1719	1.00	1.20		20	
MCMA	28	1715	1735	1717	N28	W10	.595	8704	28.0	20	-N		C	1717	.62	.80			EH
GRP 3714	28	1755	1813	1757	N17	E20	.519	8707	2.2	18	1-				.57				1 1 1
MCMA	28	1755	1813	1757	N17	E20	.519	8707	2.2	18	-F		C	1757	.41	.50			E
GRP 3715	28	1825	1840	1829	S28	W90	.998	8700	22.0	15	1-				.42				2 2 1
MCMA	28	1825	1840	1828	S26	W90	.998	8700	22.0	15	-N		C	1828					
LOCK	28	1825	1840	1829	S29	W90	.998	8700	22.0	15	-F		C	1829	.50	2.00		10	
GRP 3716	28	1833	1840	1835	N21	W25	.607	8704	26.9	7	1-				.58				2 2 2
SACP	28	1833	1839	1835	N21	W23	.590	8704	27.0	6	-N		C		.73	.79			
LOCK	28	1833	1840	1835	N21	W26	.616	8704	26.8	7	-N		C	1835	.50	.70		20	

SOLAR FLARES

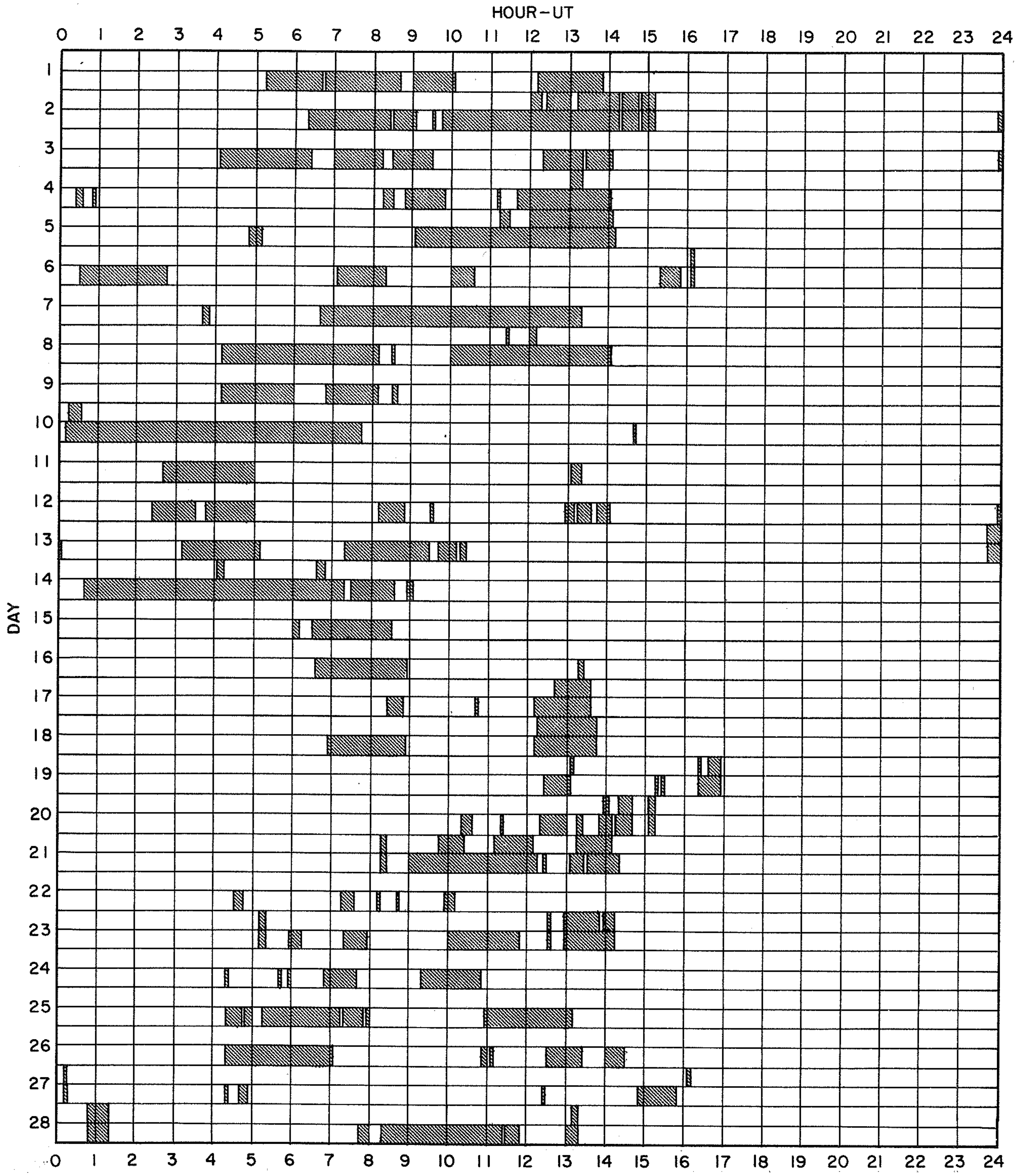
REVISED

FEBRUARY 1967

OBSERVATORY	DATE 1967 FEB	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
GRP 3717	28	1841	1915	1850	N23	W23	.611	8704	27.1	34	1-				.50				1 1 1
LOCK	28	1841	1915	1850	N23	W23	.611	8704	27.1	34	-F		C	1850	.50	.70		10	
GRP 3718	28	1927	1938	1930	N30	W15	.641	8704	27.7	11	1-				.40				1 1 1
LOCK	28	1927	1938	1930	N30	W15	.641	8704	27.7	11	-F		C	1930	.40	.50		10	
GRP 3719	28	1937	1953	1943	N16	E10	.426	8707	1.6	16	1-				.10				1 1 1
LOCK	28	1937	1953	1943	N16	E10	.426	8707	1.6	16	-N		C	1943	.10	.10		20	H
GRP 3720	28	2020	2123	2030	N17	E13	.460	8707	1.8	63	1				3.74				3 2 2
LOCK	28	2020	2105	2030	N17	E13	.460	8707	1.8	45	-N		C	2030	1.30	1.40		20	
SACP	28	2020	2138	2057	N16	E13	.447	8707	1.8	78	2N		C		6.74	6.87			
HALE	28	2102E	2125	2104	N17	E12	.453	8707	1.8	23D	-B	1	P	2104	1.13	1.30			F
GRP 3721	28	2039	2055	2043	N25	W12	.563	8704	28.0	16	1-				.71				1 1 1
LOCK	28	2039	2055	2043	N25	W12	.563	8704	28.0	16	-N		C	2043	.70	.80		20	
GRP 3722	28	2236	2335	2328	N16	E12	.439	8707	1.9	59	1-				3.10				3 3 3
LOCK	28	2236	2257	2238	N18	E13	.474	8707	1.9	21	-B		C	2238	.50	.60		30	
SACP	28	2252	2354	2332	N16	E11	.433	8707	1.8	62	1N		C		4.71	4.77			
HALE	28	2319	2353	2323	N15	E11	.418	8707	1.8	34	-N	1	C	2323	1.24	1.40			FHV
GRP 3723	28	2300	2334	2307	N16	E77	.984	8714	6.7	34	1-				.25				2 2 2
SACP	28	2257	2328	2310	N15	E77	.983	8714	6.7	31	-N		C		.27				
HALE	28	2303	2340	2304	N16	E76	.981	8714	6.7	37	-B	1	C	2304	.21				
GRP 3724	28	2322	0000	2332	N17	W11	.447	8704	28.1	38	1-				1.05				1 1 1
LOCK	28	2322	0000U	2332	N17	W11	.447	8704	28.1	38U	-N		C	2332	1.00	1.10		20	
GRP 3725	28	2349	2357	2352	S16	E11	.240	8706	1.8	8	1-				.43				1 1 1
HALE	28	2349	2357D	2352	S16	E11	.240	8706	1.8	8D	-F	1	P	2352	.36	.40			
GRP 3726	28	2351	0005		N16	E07	.410	8707	1.5	14	1-				.14				1 1 1
IKOM	28	2351	0005D		N16	E07	.410	8707	1.5	14D	-N		V	2355	.31	.30			DO

INTERVALS OF NO FLARE PATROL OBSERVATIONS

FEBRUARY 1967



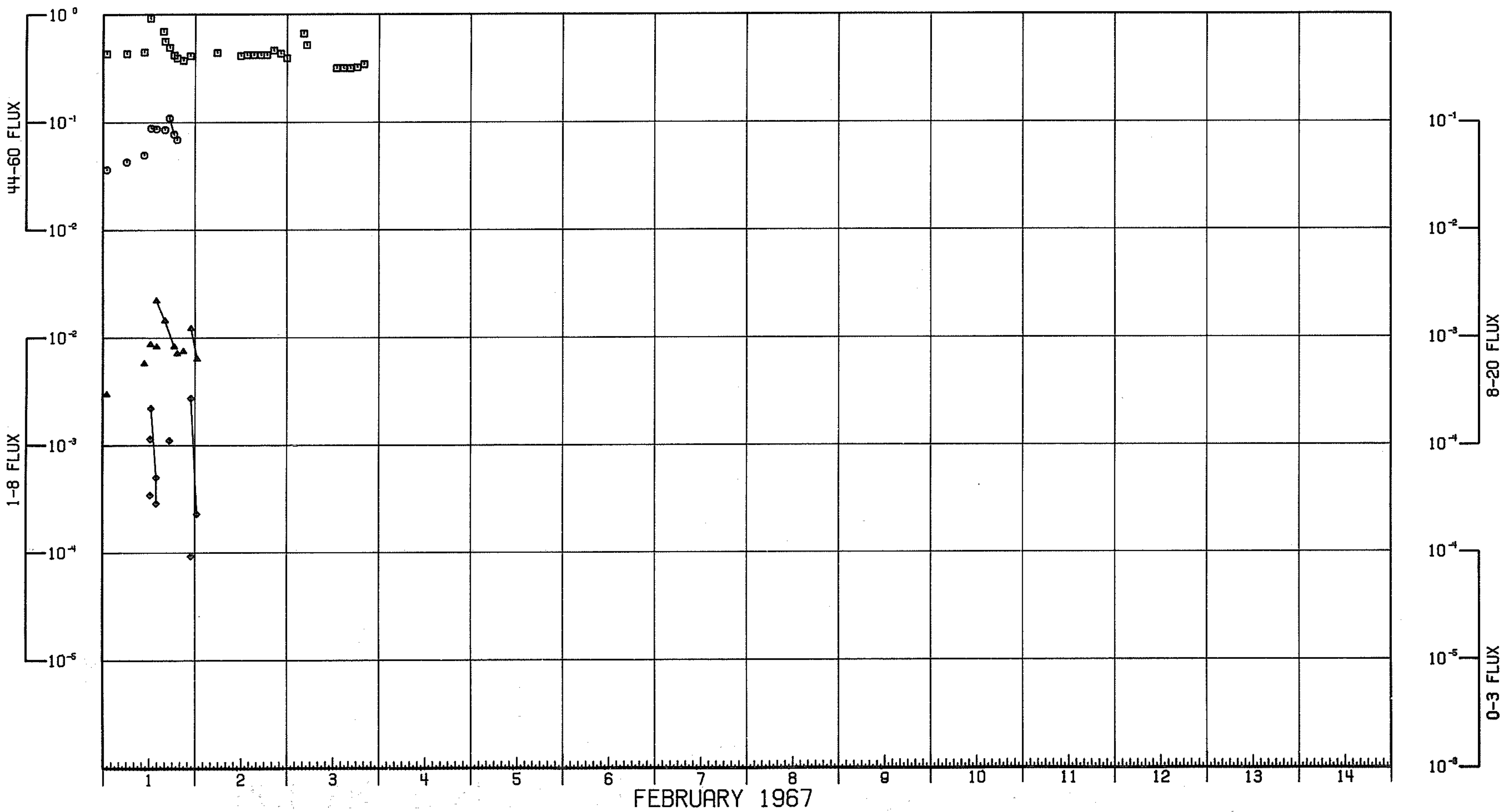
Observatories included in total patrol:

Abastumani	Bucharest	Houston	Kharkov	McMath-Hulbert	Monte Mario	Tachkent
Anacapri-F (German)	Catania	Huancayo	Kiev	Manila	Ondrejov	Uccle
Arcetri	Culgoora	Ikomason	Kodaikanal	Meudon	Sacramento Peak	Wendelstein
Athenes	Haleakala	Istanboul	Locarno	Mitaka	Siberie	Zürich
Bakou	Herstmonceux	Kandilli	Lockheed			

Beginning with this issue, patrol times for each day will be divided into cinematographic patrol (bottom half of day) and total patrol (top half of day).

SOLAR RADIATION MONITORING SATELLITE
X-RAY

NRL



SOLAR RADIATION MONITORING SATELLITE
X-RAY

NRL

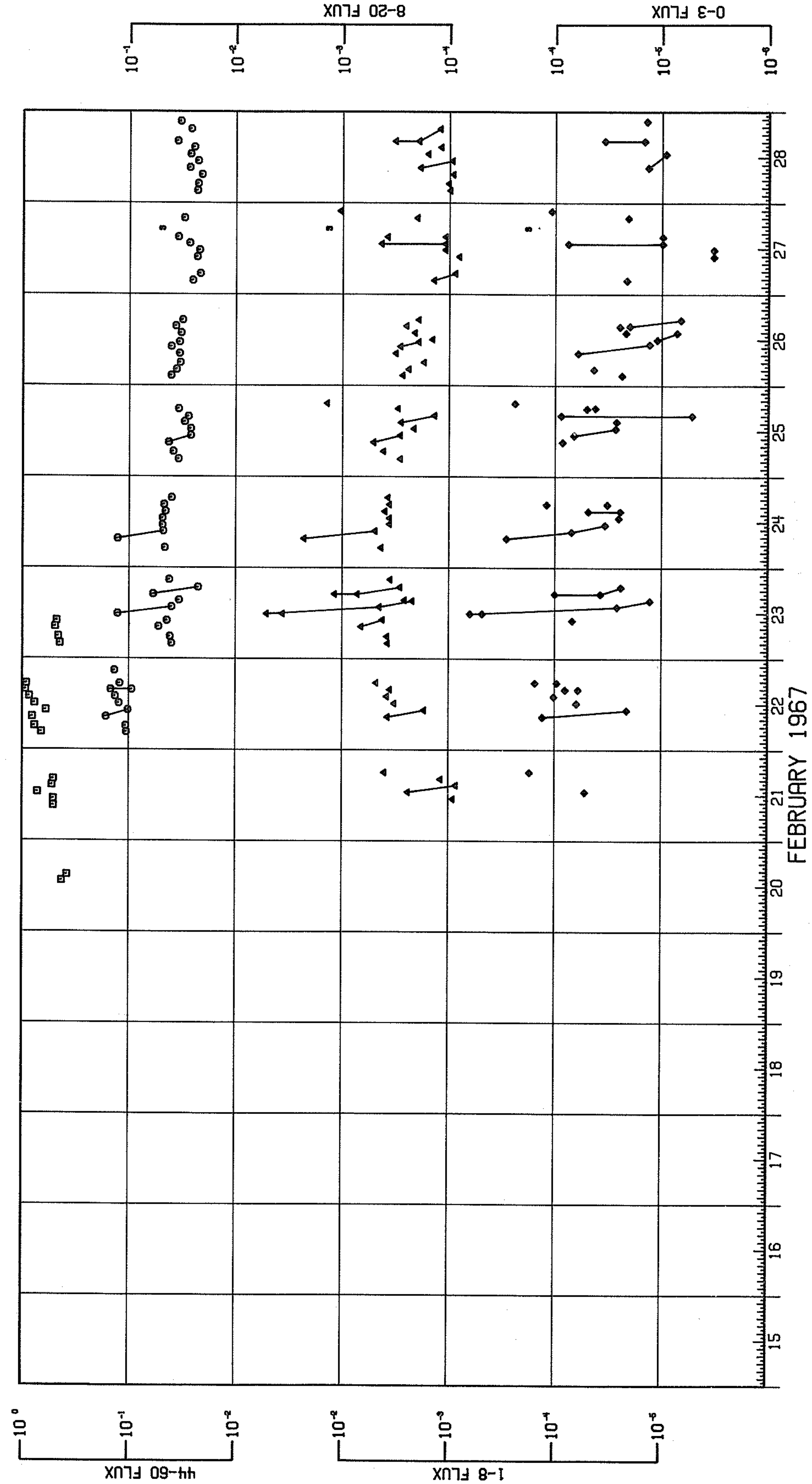


Table of Contents
for Miscellaneous Data

SOLAR RADIATION MONITORING SATELLITE
X-RAY

NOVEMBER 1965

NRL SOLAR X-RAY DATA (PRELIMINARY)

DAILY AVERAGES FOR NOVEMBER 1965			
DATE	44-60 XE-1	8-20 XE-3	0-8 XE-4
651121	0.30		
651122	0.30		
651123	0.37		0.57
651124	0.32		
651125	0.32		
651126	0.36		
651127	0.45	1.09	0.57
651128	0.48	2.01	0.64
651129	0.37	0.46	
651130	0.49	1.84	2.07

NRL SOLAR X-RAY DATA (PRELIMINARY)

OUTSTANDING EVENTS FOR NOVEMBER 1965						
DATE	STA	START UT	END UT	8-20 XE-3	0-8 XE-4	0-3 XE-5
651128	NRL	1231	1241	6.61	5.42	0.36

OBSERVING TIMES FOR NOVEMBER 1965				
DATE	STA	START UT	END UT	ASPECT ANGLE
651119	NRL	0449	0500	0.0
651119	NRL	0611	0620	0.0
651120	NRL	1858	1912	-36.5
651120	NRL	2042	2056	-38.0
651120	NRL	2228	2240	-14.1
651121	NRL	0017	0025	-15.0
651121	NRL	2012	2027	-20.8
651122	NRL	2128	2141	-3.0
651123	NRL	2059	2112	-3.0
651124	NRL	0034	0043	-3.0
651124	NRL	1029	1043	-3.0
651124	NRL	1844	1858	-3.0
651124	NRL	2217	2227	-3.0
651125	NRL	1635	1641	-3.0
651125	NRL	1814	1829	-3.0
651125	NRL	1959	2013	-3.0
651125	NRL	2147	2157	-3.0
651126	NRL	1929	1944	-3.0
651126	NRL	2117	2128	-3.0
651126	NRL	2305	2314	-3.0
651127	NRL	1716	1730	-3.0
651127	NRL	1900	1915	-3.0
651127	NRL	2047	2058	-3.0
651127	NRL	2236	2244	-3.0
651128	NRL	1231	1241	-5.0
651128	NRL	1520	1521	-4.0
651128	NRL	1647	1700	-3.0
651128	NRL	1830	1846	-3.0
651128	NRL	2017	2029	-3.0
651129	NRL	1447	1449	0.0
651129	NRL	1618	1630	-3.0
651129	NRL	1800	1815	-3.0
651129	NRL	1947	2000	-3.0
651129	NRL	2136	2144	-3.0
651129	NRL	2322	2332	-3.0
651130	NRL	1549	1601	-3.0
651130	NRL	1731	1746	-3.0
651130	NRL	1919	1929	-3.0
651130	NRL	2108	2115	-3.0
651130	NRL	2254	2303	-3.0

SOLAR RADIATION MONITORING SATELLITE
X-RAY
DECEMBER 1965

NRL SOLAR X-RAY DATA (PRELIMINARY)

DAILY AVERAGES FOR DECEMBER 1965			
DATE	44-60 XE-1	8-20 XE-3	0-8 XE-4
6512 1	0.40	0.59	0.98
6512 2	0.37	0.33	
6512 3	0.35	0.39	
6512 4	0.35	0.33	
6512 5	0.33	0.26	
6512 6	0.37	0.36	
6512 7	0.40	0.94	0.44
6512 8	0.44	1.07	0.54
6512 9	0.39	0.50	
651210	0.41	0.56	0.21
651211	0.41	0.49	0.14
651212	0.40	0.39	
651213	0.37	0.26	
651214	0.38	0.36	0.33
651215	0.43	1.03	0.74
651216	0.41	0.98	0.51
651217	0.44	1.30	0.62
651218	0.50	1.74	1.16
651219	0.48	1.75	0.98
651220	0.44	1.36	0.81
651221	0.44	1.31	0.52
651222	0.34	0.48	0.34
651223	0.33	0.39	0.15
651224	0.33	0.42	0.38
651226	0.46	1.39	1.11
651227	0.74	4.65	3.76
651228	0.66	3.88	2.16
651229	0.79	5.74	3.87
651230	0.84	5.60	4.21
651231	0.75	4.16	2.65

NRL SOLAR X-RAY DATA (PRELIMINARY)

OUTSTANDING EVENTS FOR DECEMBER 1965							
DATE	STA	START UT	END UT	8-20 XE-3	0-8 XE-4	0-3 XE-5	COMMENTS
6512 7	NRL	1405	1418	1.83	1.43	0.33E	INCREASING
6512 8	NRL	1336	1349	3.66	2.07	0.33E	DECREASING
651216	NRL	2158	2211	2.61	3.28	0.33E	DECREASING
651218	NRL	1729	1739	3.40	4.60	0.33E	PEAK
651220	NRL	1254	1309	3.43	3.42	0.34E	DECREASING
651221	NRL	1039	1054	2.52	2.83	0.37E	DECREASING
651224	NRL	1242	1255	3.66	4.92	0.33	INCREASING
651227	NRL	1448	1458	5.20	5.23	0.47E	INCREASING
651227	NRL	1635	1646	5.28	5.32	0.48E	INCREASING
651227	NRL	2006	2013	4.96	3.61	0.33E	DECREASING
651228	NRL	1043	1057	6.89	6.20	1.45	
651228	NRL	1604	1616	5.33	4.86	0.75	INCREASING
651229	NRL	0559	0611	9.91	9.25	1.79	DECREASING
651229	NRL	0750	0755	5.97	3.95	0.31E	
651229	NRL	1200	1212	14.54D	23.69D	14.81	
651229	NRL	1349	1358	12.19D	21.52	2.46	PEAK
651230	NRL	1650	1704	9.40	9.85	1.99	PEAK
651231	NRL	1101	1114	8.42	10.12	1.87	

SOLAR RADIATION MONITORING SATELLITE
X-RAY

DECEMBER 1965

OBSERVING TIMES FOR DECEMBER 1965

DATE	STA	START UT	END UT	ASPECT ANGLE
6512 1	NRL	0037	0050	-3.0
6512 1	NRL	1520	1531	-3.0
6512 1	NRL	1701	1717	-3.0
6512 1	NRL	1848	1901	-3.0
6512 1	NRL	2036	2045	-3.0
6512 1	NRL	2224	2232	-3.0
6512 2	NRL	0007	0020	-3.0
6512 2	NRL	1323	1325	-3.0
6512 2	NRL	1451	1501	-3.0
6512 2	NRL	1637	1647	-3.0
6512 2	NRL	1818	1831	-3.0
6512 2	NRL	2158	2202	-3.0
6512 2	NRL	2338	2351	-3.0
6512 3	NRL	0122	0136	-3.0
6512 3	NRL	1253	1257	-3.0
6512 3	NRL	1425	1430	-3.0
6512 3	NRL	1603	1617	-3.0
6512 3	NRL	1747	1802	-3.0
6512 3	NRL	1936	1946	-3.0
6512 3	NRL	2123	2132	-3.0
6512 3	NRL	2309	2321	-3.0
6512 4	NRL	1535	1548	-3.0
6512 4	NRL	1718	1732	-3.0
6512 4	NRL	1905	1916	-3.0
6512 4	NRL	2239	2250	-3.0
6512 5	NRL	0023	0037	-3.0
6512 5	NRL	1504	1518	-3.0
6512 5	NRL	1648	1703	-3.0
6512 5	NRL	1835	1846	-3.0
6512 5	NRL	2024	2032	-3.0
6512 5	NRL	2211	2221	-3.0
6512 5	NRL	2354	0008	-3.0
6512 6	NRL	0138	0151	-3.0
6512 6	NRL	1435	1448	-3.0
6512 6	NRL	1619	1633	-3.0
6512 6	NRL	1805	1818	-3.0
6512 6	NRL	1954	2002	-3.0
6512 6	NRL	2140	2150	-3.0
6512 7	NRL	0110	0113	-3.0
6512 7	NRL	1054	1059	-3.0
6512 7	NRL	1405	1418	-3.0
6512 7	NRL	1548	1604	-3.0
6512 7	NRL	1736	1748	-3.0
6512 7	NRL	1923	1933	-3.0
6512 7	NRL	2113	2121	-3.0
6512 7	NRL	2254	2308	-3.0
6512 8	NRL	0039	0045	-3.0
6512 8	NRL	1336	1349	-3.0
6512 8	NRL	1519	1534	-3.0
6512 8	NRL	1705	1718	-3.0
6512 8	NRL	1854	1903	-3.0
6512 8	NRL	2041	2050	-3.0
6512 8	NRL	2225	2239	-3.0
6512 9	NRL	0010	0023	-3.0
6512 9	NRL	1309	1319	-3.0
6512 9	NRL	1449	1505	-3.0
6512 9	NRL	1635	1649	-3.0
6512 9	NRL	1823	1833	-3.0
6512 9	NRL	2011	2020	-3.0
6512 9	NRL	2150	2151	-3.0
6512 9	NRL	2156	2209	-3.0
6512 9	NRL	2340	2354	-3.0
651210	NRL	1239	1249	-3.0
651210	NRL	1420	1435	-3.0
651210	NRL	1605	1619	-3.0
651210	NRL	1753	1804	-3.0
651210	NRL	1941	1950	-3.0
651210	NRL	2126	2139	-3.0
651210	NRL	2310	2324	-3.0

DATE	STA	START UT	END UT	ASPECT ANGLE
651211	NRL	0057	0105	-3.0
651211	NRL	1211	1219	-3.0
651211	NRL	1350	1406	-3.0
651211	NRL	1535	1550	-3.0
651211	NRL	1723	1734	-3.0
651211	NRL	1911	1920	-3.0
651211	NRL	2056	2109	-3.0
651211	NRL	2241	2255	-3.0
651212	NRL	0026	0037	-3.0
651212	NRL	1127	1140	-3.0
651212	NRL	1321	1336	-3.0
651212	NRL	1505	1521	-3.0
651212	NRL	1653	1704	-3.0
651212	NRL	1841	1850	-3.0
651212	NRL	2027	2039	-3.0
651212	NRL	2211	2225	-3.0
651212	NRL	2356	0008	-3.0
651213	NRL	1252	1306	-3.0
651213	NRL	1435	1451	-3.0
651213	NRL	1623	1635	-3.0
651213	NRL	1700	1714	-3.0
651213	NRL	1812	1820	-3.0
651213	NRL	1957	2009	-3.0
651213	NRL	2242	2256	-3.0
651214	NRL	0026	0039	-3.0
651214	NRL	0913	0917	-3.0
651214	NRL	1322	1337	-3.0
651214	NRL	1506	1521	-3.0
651214	NRL	1553	1606	-3.0
651214	NRL	1742	1751	-3.0
651214	NRL	1928	1939	-3.0
651214	NRL	2116	2126	-3.0
651214	NRL	2257	2310	-3.0
651215	NRL	1153	1207	-3.0
651215	NRL	1336	1352	-3.0
651215	NRL	1523	1536	-3.0
651215	NRL	1711	1721	-3.0
651215	NRL	1858	1909	-3.0
651215	NRL	2042	2057	-3.0
651215	NRL	2227	2240	-3.0
651216	NRL	0957	0959	-3.0
651216	NRL	1124	1137	-3.0
651216	NRL	1307	1322	-3.0
651216	NRL	1453	1507	-3.0
651216	NRL	1642	1651	-3.0
651216	NRL	1828	1839	-3.0
651216	NRL	2013	2027	-3.0
651216	NRL	2158	2211	-3.0
651217	NRL	1056	1107	-3.0
651217	NRL	1237	1252	-3.0
651217	NRL	1424	1437	-3.0
651217	NRL	1612	1622	-3.0
651217	NRL	1759	1809	-3.0
651217	NRL	1944	1957	-3.0
651217	NRL	2128	2142	-3.0
651217	NRL	2316	2320	-3.0
651218	NRL	0857	0859	-3.0
651218	NRL	1027	1035	-3.0
651218	NRL	1207	1224	-3.0
651218	NRL	1353	1408	-3.0
651218	NRL	1543	1552	-3.0
651218	NRL	1729	1739	-3.0
651218	NRL	1914	1927	-3.0
651218	NRL	2058	2112	-3.0
651218	NRL	2245	2253	-3.0
651219	NRL	0959	1006	-3.0
651219	NRL	1139	1154	-3.0
651219	NRL	1323	1338	-3.0
651219	NRL	1346	1349	-3.0
651219	NRL	1512	1523	-3.0
651219	NRL	1700	1709	-3.0
651219	NRL	1844	1857	-3.0
651219	NRL	2029	2043	-3.0
651219	NRL	2215	2225	-3.0

DATE	STA	START UT	END UT	ASPECT ANGLE
651220	NRL	1109	1124	-3.0
651220	NRL	1254	1309	-3.5
651220	NRL	1442	1453	-3.5
651220	NRL	1630	1639	-3.5
651220	NRL	1815	1827	-3.5
651220	NRL	1959	2015	-3.5
651220	NRL	2145	2156	-5.0
651221	NRL	1039	1054	-5.5
651221	NRL	1224	1240	-5.5
651221	NRL	1412	1423	-5.5
651221	NRL	1600	1609	-5.5
651221	NRL	1746	1757	-3.0
651221	NRL	1930	1944	-3.0
651221	NRL	2115	2126	-3.0
651222	NRL	1011	1025	-3.5
651222	NRL	1155	1210	-3.5
651222	NRL	1341	1354	-3.5
651222	NRL	1530	1539	-3.5
651222	NRL	1716	1728	-5.0
651222	NRL	1900	1915	-5.0
651222	NRL	2045	2058	-5.5
651223	NRL	0941	0955	-5.5
651223	NRL	1125	1140	-5.5
651223	NRL	1311	1325	-5.5
651223	NRL	1500	1510	-6.0
651223	NRL	1646	1654	-6.0
651224	NRL	0912	0926	-7.1
651224	NRL	1058	1111	-5.5
651224	NRL	1242	1255	-3.0
651224	NRL	1430	1440	-3.0
651224	NRL	1617	1628	-3.0
651224	NRL	1802	1815	-3.5
651224	NRL	1947	1959	-3.0
651225	NRL	1232	1234	-5.5
651226	NRL	1003	1006	-5.5
651226	NRL	1337	1340	-6.5
651226	NRL	1702	1716	-6.7
651226	NRL	1847	1901	-6.8
651227	NRL	1304	1312	-8.8
651227	NRL	1448	1458	-9.0
651227	NRL	1635	1646	-9.3
651227	NRL	1818	1832	-5.5
651227	NRL	2006	2013	-3.0
651228	NRL	0857	0913	-3.5
651228	NRL	1043	1057	-5.0
651228	NRL	1105	1110	-5.0
651228	NRL	1419	1428	-5.5
651228	NRL	1604	1616	-5.5
651228	NRL	1934	1944	-5.5
651229	NRL	0559	0611	-6.7
651229	NRL	0828	0844	-6.9
651229	NRL	1013	1028	-7.0
651229	NRL	1200	1212	-7.3
651229	NRL	1349	1358	-7.4
651229	NRL	1535	1547	-5.5
651229	NRL	1719	1733	-5.5
651229	NRL	1904	1916	-5.5
651230	NRL	0954	0959	-7.2
651230	NRL	1131	1143	-7.8
651230	NRL	1320	1328	-8.0
651230	NRL	1505	1517	-6.0
651230	NRL	1650	1704	-3.0
651230	NRL	1835	1847	-3.0
651231	NRL	1039	1041	-5.5
651231	NRL	1101	1114	-5.5
651231	NRL	1250	1259	-5.5
651231	NRL	1436	1447	-5.5
651231	NRL	1620	1635	-3.0
651231	NRL	1805	1817	-5.5

SOLAR RADIATION MONITORING SATELLITE
X-RAY
JANUARY 1966

NRL SOLAR X-RAY DATA (PRELIMINARY)

DAILY AVERAGES FOR JANUARY 1966			
DATE	44-60 XE-1	8-20 XE-3	0-8 XE-4
66 1 1	0.71	3.79	2.37
66 1 2	0.53	1.94	1.53
66 1 3	0.45	0.69	0.33
66 1 4	0.49	1.02	0.28
66 1 5	0.51	0.69	
66 1 6	0.50	0.76	
66 1 7	0.50	0.75	0.40
66 1 8	0.50	0.79	
66 1 9	0.48	0.68	
66 110	0.47	0.60	0.30
66 111	0.66	2.84	2.18
66 112	0.70	2.95	1.44
66 113	0.82	3.69	1.56
66 114	0.97	5.15	3.31
66 115	1.07	6.40	2.95
66 116	1.08	6.27	3.35
66 117	0.93	4.44	1.64
66 118	1.17	7.47	3.85
66 119	1.55	12.46	7.48
66 120		6.15	2.75
66 121		4.52	1.57
66 122		4.46	1.61
66 123		3.10	1.43
66 125		3.25	0.80
66 126		3.17	0.96
66 127		1.99	0.68
66 128		1.98	0.66
66 129		1.98	0.54
66 130		1.00	0.33

NRL SOLAR X-RAY DATA (PRELIMINARY)

OUTSTANDING EVENTS FOR JANUARY 1966							
DATE	STA	START UT	END UT	8-20 XE-3	0-8 XE-4	0-3 XE-5	COMMENTS
66 1 1	NRL	1220	1229	8.42	6.07	0.75	
66 1 1	NRL	1406	1417	5.61	4.86	0.37	INCREASING
66 110	NRL	1126	1137	6.59	8.10	1.12	INCREASING
66 114	NRL	1259	1313	6.85	5.13	0.68	INCREASING
66 115	NRL	1044	1057	8.62	6.57	0.99	
66 117	NRL	1131	1144	12.54D	16.41	13.59	
66 118	NRL	1245	1259	11.87	10.24	2.19	INCREASING

SOLAR RADIATION MONITORING SATELLITE
X-RAY
JANUARY 1966

OBSERVING TIMES FOR JANUARY 1966

DATE	STA	START UT	END UT	ASPECT ANGLE	DATE	STA	START UT	END UT	ASPECT ANGLE
66 1 1	NRL	0725	0726	-4.5	66 112	NRL	0859	0901	-3.5
66 1 1	NRL	1031	1044	-5.5	66 112	NRL	1027	1037	-3.5
66 1 1	NRL	1220	1229	-5.5	66 112	NRL	1212	1225	-3.0
66 1 1	NRL	1406	1417	-5.5	66 112	NRL	1357	1411	-3.0
66 1 1	NRL	1550	1605	-6.0	66 112	NRL	1544	1552	-3.0
66 1 1	NRL	1735	1749	-6.0					
					66 113	NRL	0829	0833	-3.5
66 1 2	NRL	1022	1025	-5.5	66 113	NRL	0958	1008	-3.5
66 1 2	NRL	1150	1200	-5.5	66 113	NRL	1143	1156	-5.0
66 1 2	NRL	1337	1347	-5.5	66 113	NRL	1328	1342	-3.0
66 1 2	NRL	1521	1535	-5.5	66 113	NRL	1514	1523	-3.0
66 1 2	NRL	1706	1720	-6.0					
					66 114	NRL	0929	0938	-3.5
66 1 3	NRL	0932	0946	-8.8	66 114	NRL	1114	1126	-3.5
66 1 3	NRL	1120	1130	-8.8	66 114	NRL	1259	1313	-3.5
66 1 3	NRL	1307	1318	-8.3	66 114	NRL	1444	1455	-3.5
66 1 3	NRL	1452	1505	-6.5					
66 1 3	NRL	1637	1651	-3.0	66 115	NRL	1044	1057	-3.0
					66 115	NRL	1228	1243	-3.0
66 1 4	NRL	0902	0916	-5.5	66 115	NRL	1414	1426	-3.0
66 1 4	NRL	1050	1101	-6.0					
66 1 4	NRL	1238	1248	-6.0	66 116	NRL	1015	1027	-3.0
66 1 4	NRL	1423	1436	-6.7	66 116	NRL	1159	1214	-3.0
66 1 4	NRL	1607	1621	-3.0	66 116	NRL	1344	1357	-3.0
66 1 4	NRL	1754	1802	-3.0					
					66 117	NRL	0947	0957	-3.0
66 1 5	NRL	0855	0857	-5.5	66 117	NRL	1131	1144	-3.0
66 1 5	NRL	1021	1031	-5.5	66 117	NRL	1323	1328	-3.0
66 1 5	NRL	1208	1218	-6.0					
66 1 5	NRL	1353	1406	-6.0	66 118	NRL	0917	0927	-1.0
66 1 5	NRL	1538	1552	-6.7	66 118	NRL	1101	1115	-1.0
66 1 5	NRL	1724	1734	-7.1	66 118	NRL	1245	1259	-1.0
66 1 6	NRL	1138	1148	-9.4	66 119	NRL	1035	1045	1.5
66 1 6	NRL	1324	1335	-9.7	66 119	NRL	1218	1230	1.5
66 1 6	NRL	1508	1523	-5.5					
66 1 6	NRL	1654	1705	-3.0	66 120	NRL	1002	1016	3.5
					66 120	NRL	1148	1201	3.5
66 1 7	NRL	1111	1118	-5.5	66 120	NRL	1333	1341	3.5
66 1 7	NRL	1255	1304	-5.5					
66 1 7	NRL	1625	1636	-5.5	66 121	NRL	0939	0946	6.0
					66 121	NRL	1119	1132	6.0
66 1 8	NRL	1039	1048	-6.0	66 121	NRL	1305	1313	6.0
66 1 8	NRL	1226	1237	-6.0					
66 1 8	NRL	1410	1424	-6.8	66 122	NRL	0904	0917	6.9
66 1 8	NRL	1556	1607	-5.5	66 122	NRL	1047	1102	5.5
					66 122	NRL	1234	1244	3.0
66 1 9	NRL	1010	1019	-6.9					
66 1 9	NRL	1157	1207	-7.3	66 123	NRL	1018	1033	5.5
66 1 9	NRL	1341	1354	-5.5	66 123	NRL	1204	1215	5.5
66 1 9	NRL	1525	1538	-3.0					
					66 125	NRL	0925	0933	9.9
66 110	NRL	0812	0814	-5.0	66 125	NRL	1107	1117	10.0
66 110	NRL	0940	0950	-5.0					
66 110	NRL	1126	1137	-5.5	66 126	NRL	0001	0015	11.3
66 110	NRL	1311	1325	-5.5	66 126	NRL	0144	0159	9.6
66 110	NRL	1456	1509	-5.5	66 126	NRL	0850	0905	-3.0
66 111	NRL	0913	0920	-7.2	66 127	NRL	0046	0101	3.5
66 111	NRL	1057	1108	-7.1					
66 111	NRL	1242	1256	-7.2	66 128	NRL	2234	2245	3.0
66 111	NRL	1426	1440	-3.0					
66 111	NRL	1614	1620	-3.0	66 129	NRL	0016	0032	3.0
66 111	NRL	1614	1620	-3.0	66 129	NRL	0202	0216	3.0
					66 130	NRL	0032	0048	-3.0

SOLAR RADIATION MONITORING SATELLITE
X-RAY

FEBRUARY 1966

NRL SOLAR X-RAY DATA (PRELIMINARY)

DAILY AVERAGES FOR FEBRUARY 1966			
DATE	44-60 XE-1	8-20 XE-3	0-8 XE-4
66 2 1		1.38	0.35
66 2 2	0.05	3.10	1.85
66 2 3		1.81	1.49
66 2 4		1.85	1.59
66 2 5		1.61	0.40
66 2 6		1.50	0.50
66 2 7		1.46	0.49
66 2 8		1.98	0.50
66 2 9		2.14	1.24
66 210		2.53	0.70
66 211		2.23	0.66
66 212		2.30	0.77
66 213		2.01	0.59
66 214		2.22	0.68
66 215	0.66	1.84	0.47
66 216	0.62	1.47	0.41
66 217	0.68	1.60	0.38
66 218	0.63	1.55	0.54
66 219	0.62	1.55	0.69
66 220	0.69	2.54	1.36
66 221	0.67	2.29	1.10
66 222	0.68	2.04	0.89
66 223	0.72	2.92	2.25
66 224	0.67	2.41	1.55
66 225	0.65	2.48	1.52
66 226	0.71	3.03	1.64
66 227	0.89	4.90	3.46
66 228		7.74	4.58

NRL SOLAR X-RAY DATA (PRELIMINARY)

OUTSTANDING EVENTS FOR FEBRUARY 1966						
DATE	STA	START UT	END UT	8-20 XE-3	0-8 XE-4	0-3 XE-5
66 212	NRL	0030	0036	6.02	4.36	0.27
66 220	NRL	1629	1642	5.19	4.98	0.37E
66 220	NRL	1958	2012	5.75	4.78	0.34E
66 221	NRL	0909	0920	5.33	4.90	0.37E
66 223	NRL	1643	1659	5.75	4.99	0.33E
66 227	NRL	0005	0015	8.10	6.23	0.33E
66 227	NRL	2335	2348	52.49D	105.18	17.45
66 228	NRL	2305	2320	20.23	46.11	18.30

SOLAR RADIATION MONITORING SATELLITE
X-RAY

FEBRUARY 1966

OBSERVING TIMES FOR FEBRUARY 1966

DATE	STA	START UT	END UT	ASPECT ANGLE
66 2 1	NRL	2219	2234	-5.5
66 2 2	NRL	2334	2347	-6.7
66 2 3	NRL	0120	0128	-3.0
66 2 3	NRL	2123	2135	-6.0
66 2 3	NRL	2304	2320	-5.5
66 2 4	NRL	0051	0100	-3.0
66 2 4	NRL	2052	2105	-5.5
66 2 4	NRL	2235	2250	-3.5
66 2 5	NRL	0021	0032	-3.5
66 2 5	NRL	2034	2035	-7.0
66 2 5	NRL	2206	2221	-3.0
66 2 5	NRL	2351	0004	-3.0
66 2 6	NRL	1955	2005	-7.4
66 2 6	NRL	2136	2151	-7.3
66 2 6	NRL	2322	2335	-3.5
66 2 7	NRL	2107	2122	-6.0
66 2 7	NRL	2252	2306	-3.0
66 2 8	NRL	0042	0048	-3.0
66 2 8	NRL	1858	1905	-5.5
66 2 8	NRL	2037	2052	-5.5
66 2 8	NRL	2222	2237	-3.0
66 2 9	NRL	0010	0019	-3.0
66 2 9	NRL	2008	2020	-5.5
66 2 9	NRL	2153	2207	-3.5
66 2 9	NRL	2340	2352	-3.0
66 210	NRL	1939	1953	-5.5
66 210	NRL	2125	2138	-3.0
66 210	NRL	2310	2322	-3.5
66 211	NRL	0058	0103	-3.5
66 211	NRL	1919	1924	-7.4
66 211	NRL	2053	2109	-7.4
66 211	NRL	2240	2252	-3.0
66 212	NRL	0030	0036	-3.0
66 212	NRL	1842	1854	-6.0
66 212	NRL	2025	2040	-5.5
66 212	NRL	2211	2223	-3.0
66 212	NRL	2359	0007	-3.0
66 213	NRL	1954	2010	-5.5
66 213	NRL	2140	2154	-3.0
66 213	NRL	2329	2339	-3.0
66 214	NRL	0117	0126	-3.0
66 214	NRL	1744	1754	-5.4
66 214	NRL	1925	1940	-5.5
66 214	NRL	2111	2124	-3.0
66 214	NRL	2259	2309	-3.5

DATE	STA	START UT	END UT	ASPECT ANGLE
66 215	NRL	0016	0023	-3.0
66 215	NRL	1715	1724	-5.5
66 215	NRL	1855	1911	-5.0
66 215	NRL	2044	2055	-3.0
66 215	NRL	2229	2242	-3.0
66 216	NRL	1648	1651	-6.5
66 216	NRL	1831	1841	-6.7
66 216	NRL	2011	2026	-3.0
66 216	NRL	2200	2210	-3.0
66 216	NRL	2350	2357	-3.0
66 217	NRL	1619	1623	-16.9
66 217	NRL	1757	1809	-6.9
66 217	NRL	2132	2140	-6.0
66 217	NRL	2317	2326	-5.5
66 218	NRL	1729	1742	-6.0
66 218	NRL	1914	1927	-3.0
66 218	NRL	2058	2111	-3.0
66 218	NRL	2249	2256	-3.0
66 219	NRL	0033	0040	-3.0
66 219	NRL	1659	1707	-3.5
66 219	NRL	1841	1857	-3.0
66 219	NRL	1907	1910	-3.0
66 219	NRL	2028	2040	-3.0
66 219	NRL	2216	2227	-3.5
66 219	NRL	2352	0011	-3.5
66 220	NRL	0134	0150	-3.0
66 220	NRL	0318	0332	-3.0
66 220	NRL	0605	0619	-3.5
66 220	NRL	0745	0800	-5.0
66 220	NRL	0840	0850	-5.5
66 220	NRL	1244	1254	-5.5
66 220	NRL	1433	1444	-6.0
66 220	NRL	1457	1513	-6.0
66 220	NRL	1629	1642	-5.5
66 220	NRL	1643	1700	-3.0
66 220	NRL	1810	1827	-3.0
66 220	NRL	1949	2027	-3.5
66 220	NRL	2106	2114	-3.5
66 220	NRL	2134	2157	-3.5
66 220	NRL	2255	2301	-3.0
66 220	NRL	2323	2342	-3.0
66 221	NRL	0106	0119	-3.0
66 221	NRL	0248	0309	-3.5
66 221	NRL	0539	0550	-5.0
66 221	NRL	0715	0730	-5.5
66 221	NRL	0909	0920	-5.5
66 221	NRL	1213	1223	-6.0
66 221	NRL	1436	1438	-6.5
66 221	NRL	1550	1628	-6.7
66 221	NRL	1742	1758	-3.0

DATE	STA	START UT	END UT	ASPECT ANGLE
66 221	NRL	1759	1811	-3.0
66 221	NRL	1925	1942	-3.5
66 221	NRL	2117	2130	-3.0
66 221	NRL	2220	2231	-3.0
66 221	NRL	2241	2255	-3.0
66 221	NRL	2304	2314	-3.0
66 222	NRL	0050	0055	-3.0
66 222	NRL	1531	1542	-7.0
66 222	NRL	1714	1728	-3.5
66 222	NRL	1858	1912	-3.0
66 222	NRL	2047	2057	-3.0
66 222	NRL	2234	2244	-3.0
66 223	NRL	1502	1512	-7.5
66 223	NRL	1643	1659	-3.0
66 223	NRL	1828	1843	-3.0
66 223	NRL	2016	2028	-3.0
66 223	NRL	2204	2215	-3.0
66 223	NRL	2349	2358	-3.5
66 224	NRL	1435	1441	-7.6
66 224	NRL	1613	1629	-3.0
66 224	NRL	1758	1813	-3.0
66 224	NRL	1946	1956	-3.0
66 225	NRL	0100	0108	-8.7
66 225	NRL	1347	1401	-8.3
66 225	NRL	1544	1559	-3.0
66 225	NRL	1728	1744	-3.0
66 225	NRL	1919	1928	-3.0
66 225	NRL	2104	2114	-3.5
66 225	NRL	2249	2302	-3.5
66 226	NRL	0034	0043	-3.0
66 226	NRL	0452	0507	-5.0
66 226	NRL	1318	1332	-7.1
66 226	NRL	1514	1529	-3.5
66 226	NRL	1700	1714	-3.5
66 226	NRL	1847	1859	-3.5
66 226	NRL	1906	1910	-3.5
66 226	NRL	2034	2044	-3.5
66 226	NRL	2222	2232	-3.0
66 227	NRL	0005	0015	-3.0
66 227	NRL	1136	1141	-3.0
66 227	NRL	1445	1459	-3.0
66 227	NRL	1629	1644	-3.0
66 227	NRL	1817	1828	-3.0
66 227	NRL	2004	2014	-3.5
66 227	NRL	2151	2202	-3.5
66 227	NRL	2335	2348	-5.0
66 228	NRL	0122	0129	-3.0
66 228	NRL	1933	1944	-3.5
66 228	NRL	2120	2132	-3.5
66 228	NRL	2305	2320	-5.5

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NRL SOLAR X-RAY DATA (PRELIMINARY)

DAILY AVERAGES FOR APRIL 1966			
DATE	44-60 XE-1	8-20 XE-3	0-8 XE-4
66 4 1	1.13	7.85	4.44
66 4 2	1.21	7.82	3.95
66 4 3	1.17	8.40	3.67
66 4 4	1.12	6.32	2.89
66 4 5	0.94	4.17	1.81
66 4 6	1.19	6.77	4.27
66 4 7	1.34	8.10	3.41
66 4 8	1.60	10.24	5.76
66 4 9	1.62	10.15	6.24
66 410	1.45	8.70	4.27
66 411	1.90	15.11	11.27
66 412	1.42	9.92	4.92
66 413	1.36	8.65	4.52
66 414	1.15	5.79	2.37
66 415		6.03	2.87
66 416	0.95	3.89	1.73
66 417	0.69	3.26	2.19
66 418		4.96	2.43
66 419	0.95	3.61	1.54
66 420	1.07	5.15	2.11
66 421	1.08	4.93	1.67
66 422	1.12	4.81	2.19
66 423	1.31	6.77	2.75
66 424	1.48	8.89	3.17
66 425	1.51	8.88	3.94
66 426	1.30	6.48	2.54
66 427	1.36	6.58	3.23
66 428	1.19	5.31	1.98
66 429	1.08	4.34	2.01
66 430	1.04	3.88	1.34

NRL SOLAR X-RAY DATA (PRELIMINARY)

OUTSTANDING EVENTS FOR APRIL 1966							
DATE	STA	START UT	END UT	8-20 XE-3	0-8 XE-4	0-3 XE-5	COMMENTS
66 4 1	NRL	0723	0737	22.14	18.56	2.43	
66 4 1	NRL	0932	0945	9.03	6.03	6.25	INCREASING
66 4 2	NRL	0830	0844	12.19D	16.30	2.56	DECREASING
66 4 2	NRL	1158	1210	12.91	17.09	5.07	
66 4 3	NRL	1016	1029		10.38	1.88	
66 4 3	NRL	1314	1326	23.93	17.09	3.72	
66 4 4	NRL	0309	0321	12.19D	10.52	1.08	
66 4 4	NRL	0934	0947	12.19D	12.46	1.72	
66 4 4	NRL	1244	1258	13.18D	14.36	2.03	
66 4 7	NRL	1258	1314	12.76D	13.17	3.60	
66 4 8	NRL	0724	0738	12.19D	10.89	1.48	
66 4 9	NRL	0042	0054	12.19D	13.20	2.06	
66 4 9	NRL	0832	0838	12.19D	20.22	7.36	
66 410	NRL	2344	2353	12.19D	22.31	16.05	
66 411	NRL	0915	0927	22.36	18.50	1.87	
66 411	NRL	1100	1115	49.86	81.77	15.64	
66 411	NRL	1245	1300	49.20D	132.65D	16.61	
66 411	NRL	1559	1609	23.01	26.36	5.48	DECREASING
66 412	NRL	0155	0210	15.34	13.99	0.31E	
66 412	NRL	1215	1230	21.47	137.56D	5.82	
66 413	NRL	0733	0743	19.91	16.07	4.47	
66 413	NRL	0816	0827	20.66	20.41D	12.03	
66 414	NRL	1255	1309	10.97	7.53	1.69	
66 415	NRL	1046	1101	51.96	74.72	9.09	
66 417	NRL	0947	1001	6.27	4.71	1.48	INCREASING

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DATE	STA	START UT	END UT	ASPECT ANGLE	DATE	STA	START UT	END UT	ASPECT ANGLE
66 4 1	NRL	0255	0307	2.8	66 4 8	NRL	0355	0410	-2.8
66 4 1	NRL	0351	0406	3.0	66 4 8	NRL	0540	0555	-2.8
66 4 1	NRL	0537	0552	3.2	66 4 8	NRL	0724	0738	-2.8
66 4 1	NRL	0723	0737	3.2	66 4 8	NRL	0857	0902	-2.8
66 4 1	NRL	0907	0930	5.2	66 4 8	NRL	0920	0933	-2.8
66 4 1	NRL	0932	0945	5.2	66 4 8	NRL	1045	1058	-3.0
66 4 1	NRL	1044	1052	5.2	66 4 8	NRL	1234	1244	-2.8
66 4 1	NRL	1228	1245	5.5	66 4 8	NRL	1410	1437	-2.8
66 4 1	NRL	1412	1427	5.5	66 4 8	NRL	1553	1609	-3.2
66 4 1	NRL	1558	1621	5.5	66 4 8	NRL	1730	1749	-3.2
66 4 1	NRL	1737	1751	2.8	66 4 8	NRL	2326	2336	-5.2
66 4 1	NRL	1911	1921	2.8					
66 4 1	NRL	1922	1934	2.8					
66 4 1	NRL	2103	2117	2.8	66 4 9	NRL	0042	0054	-6.8
					66 4 9	NRL	0227	0236	-6.9
					66 4 9	NRL	0325	0339	-6.9
66 4 2	NRL	0224	0236	2.8	66 4 9	NRL	0510	0524	-6.9
66 4 2	NRL	0411	0420	3.2	66 4 9	NRL	0655	0710	-7.0
66 4 2	NRL	0507	0522	3.2	66 4 9	NRL	0831	0839	-6.0
66 4 2	NRL	0653	0707	3.2	66 4 9	NRL	1016	1027	-3.0
66 4 2	NRL	0830	0900	5.2	66 4 9	NRL	1146	1214	-3.0
66 4 2	NRL	0903	0915	5.2	66 4 9	NRL	1346	1400	-3.0
66 4 2	NRL	1017	1023	5.0	66 4 9	NRL	1659	1708	-4.8
66 4 2	NRL	1045	1059	5.2	66 4 9	NRL	2257	2305	-6.8
66 4 2	NRL	1158	1215	3.5					
66 4 2	NRL	1330	1343	2.8					
66 4 2	NRL	1528	1551	2.8	66 410	NRL	0012	0023	-7.1
66 4 2	NRL	1712	1721	2.8	66 410	NRL	0157	0208	-7.4
66 4 2	NRL	1842	1851	2.8	66 410	NRL	0255	0309	-7.8
					66 410	NRL	0608	0624	-7.8
66 4 3	NRL	0156	0205	2.8	66 410	NRL	0626	0640	-7.8
66 4 3	NRL	0339	0351	2.8	66 410	NRL	0801	0808	-8.0
66 4 3	NRL	0623	0638	2.8	66 410	NRL	0820	0845	-8.0
66 4 3	NRL	0814	0819	3.0	66 410	NRL	0903	0913	-7.9
66 4 3	NRL	0832	0846	3.2	66 410	NRL	0946	1002	-5.8
66 4 3	NRL	0942	0952	3.0	66 410	NRL	1130	1145	-2.8
66 4 3	NRL	1016	1029	2.9	66 410	NRL	1309	1331	-2.8
66 4 3	NRL	1128	1145	3.5	66 410	NRL	1453	1521	-3.2
66 4 3	NRL	1229	1240	3.5	66 410	NRL	1629	1652	-5.0
66 4 3	NRL	1314	1327	3.5	66 410	NRL	2227	2235	-6.9
66 4 3	NRL	1447	1457	3.2	66 410	NRL	2344	2353	-7.3
66 4 3	NRL	1458	1513	3.2					
66 4 3	NRL	1812	1822	2.8	66 411	NRL	0127	0137	-7.8
					66 411	NRL	0225	0239	-7.9
66 4 4	NRL	0011	0018	2.8	66 411	NRL	0411	0425	-8.1
66 4 4	NRL	0127	0136	2.8	66 411	NRL	0751	0802	-8.8
66 4 4	NRL	0309	0321	2.8	66 411	NRL	0803	0817	-8.8
66 4 4	NRL	0738	0754	3.2	66 411	NRL	0915	0927	-5.8
66 4 4	NRL	0922	0955	3.2	66 411	NRL	1047	1115	-5.2
66 4 4	NRL	1101	1110	3.5	66 411	NRL	1240	1308	-2.8
66 4 4	NRL	1243	1258	3.2	66 411	NRL	1424	1432	-2.8
66 4 4	NRL	1414	1427	3.2	66 411	NRL	1559	1615	-3.2
66 4 4	NRL	1429	1449	5.5	66 411	NRL	1751	1805	-5.2
66 4 4	NRL	1558	1610	3.2	66 411	NRL	1942	1948	-5.2
66 4 4	NRL	1617	1622	5.2	66 411	NRL	2157	2204	-5.8
66 4 4	NRL	1742	1806	3.2	66 411	NRL	2343	2353	-6.9
66 4 4	NRL	1939	1948	3.2					
66 4 4	NRL	2120	2131	3.2	66 412	NRL	0056	0108	-7.3
					66 412	NRL	0155	0210	-8.1
66 4 5	NRL	0854	0904	3.0	66 412	NRL	0720	0734	-8.0
66 4 5	NRL	1214	1227	2.8	66 412	NRL	0846	0903	-5.8
66 4 5	NRL	1400	1414	3.5	66 412	NRL	1031	1046	-2.8
66 4 5	NRL	1545	1554	3.0	66 412	NRL	1215	1236	-3.5
					66 412	NRL	1345	1409	-4.8
66 4 6	NRL	0830	0833	3.0	66 412	NRL	1725	1734	-3.2
66 4 6	NRL	0959	1008	2.8	66 412	NRL	2311	2323	-5.8
66 4 6	NRL	1019	1031	3.0					
66 4 6	NRL	1150	1158	3.0	66 413	NRL	0057	0106	-6.9
66 4 6	NRL	1330	1344	3.0	66 413	NRL	0126	0140	-7.0
66 4 6	NRL	1516	1525	2.8	66 413	NRL	0311	0326	-7.2
66 4 6	NRL	1744	1754	2.8	66 413	NRL	0455	0510	-7.5
					66 413	NRL	0629	0654	-7.9
66 4 7	NRL	0141	0152	0.8	66 413	NRL	0702	0718	-5.3
66 4 7	NRL	0238	0253	0.8	66 413	NRL	0733	0743	-5.2
66 4 7	NRL	0609	0625	0.8	66 413	NRL	0817	0826	-5.2
66 4 7	NRL	0747	0800	0.8	66 413	NRL	0837	0847	-5.2
66 4 7	NRL	0805	0817	0.8	66 413	NRL	0919	0926	-5.2
66 4 7	NRL	0818	0831	0.8	66 413	NRL	1001	1016	-5.8
66 4 7	NRL	0847	0856	0.8	66 413	NRL	1152	1201	-3.5
66 4 7	NRL	0930	0947	0.8	66 413	NRL	1202	1206	-3.2
66 4 7	NRL	0949	1008	0.8	66 413	NRL	1332	1340	-3.2
66 4 7	NRL	1115	1130	0.8	66 413	NRL	1509	1523	-3.2
66 4 7	NRL	1245	1314	0.8	66 413	NRL	1657	1704	-5.2
66 4 7	NRL	1438	1507	0.8	66 413	NRL	2241	2253	-7.8
66 4 7	NRL	1634	1638	-0.8	66 413	NRL	2356	0009	-8.3
66 4 7	NRL	1648	1701	-1.0	66 414	NRL	0030	0042	-8.5
66 4 7	NRL	1808	1819	-1.2	66 414	NRL	0055	0110	-9.6
66 4 7	NRL	1950	2004	-1.2	66 414	NRL	0241	0255	-8.8
66 4 8	NRL	0111	0122	-3.0	66 414	NRL	0451	0504	-9.5
66 4 8	NRL	0258	0306	-2.8	66 414	NRL	0559	0609	-4.8
					66 414	NRL	0746	0756	-3.0

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DATE	STA	START UT	END UT	ASPECT ANGLE
66 414	NRL	0807	0818	-2.8
66 414	NRL	0849	0859	-2.8
66 414	NRL	0932	0947	-2.8
66 414	NRL	1115	1130	-3.2
66 414	NRL	1246	1313	-2.8
66 414	NRL	1440	1454	-3.2
66 414	NRL	1714	1726	-5.2
66 414	NRL	1904	1908	-5.6
66 414	NRL	2211	2222	-5.8
66 415	NRL	0529	0539	-5.8
66 415	NRL	0717	0726	-2.8
66 415	NRL	0736	0757	-3.0
66 415	NRL	0902	0914	-3.2
66 415	NRL	1046	1101	-3.0
66 415	NRL	1232	1241	-3.0
66 416	NRL	0459	0510	-3.0
66 416	NRL	0647	0655	-2.8
66 416	NRL	0706	0720	-3.0
66 416	NRL	0833	0843	-3.2
66 416	NRL	1015	1032	-3.0
66 416	NRL	1202	1213	-2.8
66 417	NRL	0058	0117	-4.2
66 417	NRL	0240	0254	-2.8
66 417	NRL	0419	0440	-3.2
66 417	NRL	0441	0456	-2.8
66 417	NRL	0507	0520	-2.8
66 417	NRL	0617	0625	-2.8
66 417	NRL	0802	0819	-3.0
66 417	NRL	0934	1001	-2.8
66 417	NRL	1132	1155	-3.0
66 417	NRL	1545	1559	-3.2
66 417	NRL	1730	1747	-3.2
66 417	NRL	1920	1933	-4.0
66 417	NRL	2112	2127	-5.2
66 417	NRL	2256	2312	-5.2
66 418	NRL	0029	0040	-5.2
66 418	NRL	0213	0225	-4.2
66 418	NRL	0400	0411	-3.6
66 418	NRL	0547	0555	-3.0
66 418	NRL	0734	0743	-2.8
66 418	NRL	0918	0931	-3.0
66 418	NRL	1101	1115	-3.2
66 418	NRL	1517	1527	-3.2
66 418	NRL	1706	1716	-3.2
66 418	NRL	1851	1901	-3.6
66 419	NRL	0006	0010	-3.8
66 419	NRL	0142	0155	-2.8
66 419	NRL	0329	0340	-2.8
66 419	NRL	0516	0526	-3.0
66 419	NRL	0703	0713	-2.8
66 419	NRL	0848	0902	-2.8
66 419	NRL	1033	1045	-2.8
66 419	NRL	1448	1458	-2.8
66 419	NRL	1636	1647	-2.8
66 419	NRL	1822	1832	-2.8
66 419	NRL	2333	2340	-2.8
66 420	NRL	0112	0127	-2.8
66 420	NRL	0258	0310	-3.2
66 420	NRL	0446	0456	-2.8
66 420	NRL	0633	0643	-3.0
66 420	NRL	0817	0831	-3.2
66 420	NRL	1002	1017	-3.0
66 420	NRL	1150	1155	-2.8
66 420	NRL	2301	2310	-5.2
66 421	NRL	0042	0057	-4.0
66 421	NRL	0230	0240	-2.8
66 421	NRL	0416	0426	-3.2
66 421	NRL	0603	0614	-4.2
66 421	NRL	0753	0802	-3.6
66 421	NRL	0932	0947	-3.2
66 421	NRL	1119	1127	-3.2
66 421	NRL	1533	1543	-3.0
66 421	NRL	1721	1732	-3.0
66 421	NRL	1907	1917	-3.0
66 421	NRL	2232	2241	-3.0
66 422	NRL	0013	0027	-3.0
66 422	NRL	0158	0211	-3.0
66 422	NRL	0346	0355	-4.0
66 422	NRL	0533	0543	-4.2
66 422	NRL	0718	0731	-2.8
66 422	NRL	0903	0917	-3.2
66 422	NRL	1049	1059	-3.5
66 422	NRL	1503	1513	-4.0
66 422	NRL	1651	1702	-4.0
66 422	NRL	1837	1847	-4.0
66 422	NRL	2204	2209	-5.2
66 422	NRL	2343	2358	-3.0

DATE	STA	START UT	END UT	ASPECT ANGLE
66 423	NRL	0128	0141	-3.0
66 423	NRL	0316	0326	-4.0
66 423	NRL	0504	0513	-5.2
66 423	NRL	0649	0701	-5.2
66 423	NRL	0832	0848	-6.0
66 423	NRL	1018	1024	-3.2
66 423	NRL	1433	1445	-3.2
66 423	NRL	1621	1632	-3.2
66 423	NRL	1807	1817	-3.2
66 423	NRL	2313	2328	-6.8
66 424	NRL	0058	0107	-2.8
66 424	NRL	0246	0256	-3.2
66 424	NRL	0433	0443	-4.2
66 424	NRL	0620	0631	-2.8
66 424	NRL	0803	0818	-3.0
66 424	NRL	0949	1000	-2.8
66 424	NRL	1404	1414	-3.0
66 424	NRL	1652	1702	-3.0
66 424	NRL	1737	1747	-3.0
66 424	NRL	2244	2257	-4.2
66 425	NRL	0030	0042	-5.2
66 425	NRL	0216	0226	-5.2
66 425	NRL	0404	0413	-4.0
66 425	NRL	0550	0601	-2.8
66 425	NRL	0734	0747	-3.0
66 425	NRL	0918	0932	-5.5
66 425	NRL	1334	1344	-5.0
66 425	NRL	1707	1719	-5.0
66 425	NRL	2215	2227	-4.2
66 425	NRL	2358	0012	-2.8
66 426	NRL	0116	0127	-3.0
66 426	NRL	0145	0156	-3.2
66 426	NRL	0332	0339	-5.2
66 426	NRL	0347	0421	-5.2
66 426	NRL	0519	0530	-5.2
66 426	NRL	0704	0718	-5.2
66 426	NRL	0847	0902	-6.0
66 426	NRL	2145	2157	-10.0
66 427	NRL	0303	0312	-4.8
66 427	NRL	0329	0344	-5.0
66 427	NRL	0449	0501	-5.2
66 427	NRL	0634	0649	-5.5
66 427	NRL	0818	0833	-5.5
66 427	NRL	2116	2128	-9.5
66 427	NRL	2258	2312	-10.0
66 428	NRL	0036	0057	-2.8
66 428	NRL	0059	0114	-2.8
66 428	NRL	0221	0234	-2.8
66 428	NRL	0235	0242	-3.2
66 428	NRL	0309	0319	-3.2
66 428	NRL	0410	0430	-3.2
66 428	NRL	0523	0531	-3.2
66 428	NRL	0604	0620	-3.2
66 428	NRL	0919	0932	-5.2
66 428	NRL	1538	1548	-7.0
66 428	NRL	1702	1708	-7.0
66 428	NRL	1728	1738	-7.0
66 428	NRL	1844	1855	-7.7
66 428	NRL	1914	1929	-7.9
66 428	NRL	2051	2103	-8.4
66 428	NRL	2229	2248	-3.0
66 429	NRL	0007	0028	-2.8
66 429	NRL	0151	0212	-2.8
66 429	NRL	0239	0249	-2.8
66 429	NRL	0338	0348	-3.0
66 429	NRL	0349	0359	-3.2
66 429	NRL	0453	0500	-3.2
66 429	NRL	0522	0542	-3.2
66 429	NRL	0850	0901	-3.2
66 429	NRL	1137	1150	-5.2
66 429	NRL	1317	1330	-5.2
66 429	NRL	1653	1711	-5.2
66 429	NRL	1815	1825	-6.8
66 429	NRL	1843	1858	-7.0
66 429	NRL	2019	2043	-7.2
66 429	NRL	2156	2214	-7.5
66 429	NRL	2343	2356	-2.8
66 430	NRL	0132	0142	-2.8
66 430	NRL	0321	0330	-2.8
66 430	NRL	0504	0511	-2.8
66 430	NRL	1438	1447	-3.0
66 430	NRL	1623	1638	-3.0
66 430	NRL	1817	1823	-3.0
66 430	NRL	1950	1956	-5.2
66 430	NRL	2314	2326	-3.0

SOLAR RADIATION MONITORING SATELLITE
X-RAY

MAY 1966

NRL SOLAR X-RAY DATA (PRELIMINARY)

DAILY AVERAGES FOR MAY 1966

DATE	44-60 XE-1	8-20 XE-3	0-8 XE-4
66 5 1	1.02	3.48	1.33
66 5 2	1.00	3.79	1.30
66 5 3	1.08	3.65	1.63
66 5 4	1.08	4.51	1.98
66 5 5	1.05	3.50	1.63
66 5 6	1.01	2.81	1.12
66 5 7	1.03	2.77	1.34
66 5 8	1.06	2.82	0.24
66 5 9	1.04	3.53	1.48
66 510	1.14	3.74	1.27
66 511	1.17	3.51	0.92
66 512	1.22	4.28	1.54
66 513	1.17	3.17	1.33
66 514	1.17	3.49	1.24
66 515	1.23	4.19	1.71
66 516	1.27	4.50	2.11
66 517	1.24	4.41	1.71
66 518	1.27	4.49	1.41
66 519	1.65	8.66	3.30
66 520	1.84	10.49	4.07
66 521	1.81	12.34	5.64
66 522	1.74	9.70	4.29
66 523	1.76	10.97	5.64
66 524	1.78	11.85	7.38
66 525	1.54	7.85	3.24
66 526	1.47	7.07	2.21
66 527	1.40	7.12	2.21
66 528	1.32	7.06	1.72
66 529	1.22	5.61	1.58
66 530	1.17	3.96	1.07
66 531	1.34	5.47	1.48

NRL SOLAR X-RAY DATA (PRELIMINARY)

OUTSTANDING EVENTS FOR MAY 1966

DATE	STA	START UT	END UT	8-20 XE-3	0-8 XE-4	0-3 XE-5
66 5 4	NRL	0304	0313	17.67	1.70	11.37
66 5 4	NRL	0619	0632	2.44	0.91	8.59
66 5 4	NRL	1931	1942	15.15	74.51	2.59
66 5 4	NRL	2303	2306	12.53	62.68	0.31E
66 5 5	NRL	1902	1912	9.13	65.10	1.97
66 5 5	NRL	2056	2058	14.95	75.32	3.30
66 511	NRL	0629	0643	9.32	1.95	0.31E
66 511	NRL	2106	2121	12.19D	14.10D	15.49
66 519	NRL	1523	1533	17.09	15.33	0.31E
66 519	NRL	2051	2059	13.40	7.53	0.31E
66 521	NRL	0925	0938	19.52	12.37	0.31E
66 521	NRL	1435	1446	15.76	10.39	1.33
66 526	NRL	2236	.2251	11.75	8.88	0.31E
66 528	NRL	1610	1624	12.19D	13.73	0.31E
66 528	NRL	1807	1816	19.42	16.95	14.38

SOLAR RADIATION MONITORING SATELLITE
X-RAY

MAY 1966

OBSERVING TIMES FOR MAY 1966

DATE	STA	START UT	END UT	ASPECT ANGLE
66 515	NRL	1916	1928	2.8
66 515	NRL	1940	1950	3.0
66 515	NRL	2102	2115	3.2
66 515	NRL	2210	2219	3.2
66 515	NRL	2239	2250	3.2
66 515	NRL	2251	2301	3.0
66 516	NRL	0035	0045	2.8
66 516	NRL	0821	0835	3.0
66 516	NRL	1158	1208	3.0
66 516	NRL	1354	1356	3.0
66 516	NRL	1847	1859	3.0
66 516	NRL	2034	2043	3.2
66 516	NRL	2221	2230	3.0
66 517	NRL	0136	0205	5.2
66 517	NRL	0320	0344	3.2
66 517	NRL	0505	0517	5.2
66 517	NRL	0749	0801	5.8
66 517	NRL	0940	0953	7.1
66 517	NRL	1126	1138	7.7
66 517	NRL	1316	1330	8.2
66 517	NRL	1622	1640	10.0
66 517	NRL	1815	1830	3.5
66 517	NRL	1831	1845	3.5
66 517	NRL	1953	2007	3.2
66 517	NRL	2110	2117	5.2
66 517	NRL	2139	2145	5.2
66 517	NRL	2151	2208	4.0
66 517	NRL	2325	2336	3.0
66 517	NRL	2337	2348	3.2
66 518	NRL	0107	0125	3.2
66 518	NRL	0251	0313	2.8
66 518	NRL	0435	0500	3.0
66 518	NRL	0719	0732	3.2
66 518	NRL	0909	0923	5.2
66 518	NRL	1055	1112	5.2
66 518	NRL	1217	1227	5.2
66 518	NRL	1430	1444	5.8
66 518	NRL	1801	1816	3.2
66 518	NRL	1922	1945	3.2
66 518	NRL	2109	2130	2.8
66 518	NRL	2131	2140	3.0
66 518	NRL	2255	2317	2.8
66 519	NRL	0038	0103	2.8
66 519	NRL	0221	0244	2.8
66 519	NRL	0406	0430	3.0
66 519	NRL	0649	0702	3.2
66 519	NRL	0839	0853	3.2
66 519	NRL	1025	1042	3.2
66 519	NRL	1147	1156	3.2
66 519	NRL	1223	1226	3.2
66 519	NRL	1401	1415	3.2
66 519	NRL	1523	1551	2.8
66 519	NRL	1717	1729	3.0
66 519	NRL	1731	1746	3.2
66 519	NRL	1903	1914	3.0
66 519	NRL	2051	2059	2.8
66 519	NRL	2155	2204	3.2
66 519	NRL	2226	2237	3.0
66 519	NRL	2240	2252	3.2
66 520	NRL	0008	0035	3.2
66 520	NRL	0152	0216	3.2
66 520	NRL	0345	0400	3.2
66 520	NRL	0808	0818	2.8
66 520	NRL	1117	1126	2.8
66 520	NRL	1301	1313	2.8
66 520	NRL	1334	1341	2.8
66 520	NRL	1452	1515	1.2
66 520	NRL	1643	1659	1.2
66 520	NRL	1823	1844	1.2
66 520	NRL	2157	2208	1.2
66 520	NRL	2209	2223	2.0
66 520	NRL	2339	0005	1.2
66 521	NRL	0122	0148	1.2
66 521	NRL	0306	0318	1.2
66 521	NRL	0556	0604	-0.8
66 521	NRL	0735	0745	-1.2
66 521	NRL	0925	0938	-2.8
66 521	NRL	1048	1056	-2.8
66 521	NRL	1303	1310	-3.2
66 521	NRL	1423	1451	-3.2
66 521	NRL	1618	1630	-2.8
66 521	NRL	1803	1814	-2.8

DATE	STA	START UT	END UT	ASPECT ANGLE
66 521	NRL	1823	1831	-2.8
66 521	NRL	1957	2000	-2.8
66 521	NRL	2127	2147	-2.8
66 521	NRL	2309	2336	-2.8
66 522	NRL	0106	0119	-2.8
66 522	NRL	0254	0258	-3.2
66 522	NRL	0522	0532	-3.2
66 522	NRL	1049	1055	-4.0
66 522	NRL	1405	1408	-4.5
66 522	NRL	1921	1930	-3.0
66 522	NRL	2107	2118	-3.2
66 522	NRL	2252	2304	-3.0
66 523	NRL	0037	0051	-3.2
66 523	NRL	0826	0836	-3.2
66 523	NRL	1010	1028	-3.2
66 523	NRL	2222	2236	-3.5
66 524	NRL	0613	0622	-3.2
66 524	NRL	0943	0958	-3.5
66 524	NRL	1140	1141	-3.5
66 525	NRL	0537	0547	-3.5
66 525	NRL	0724	0734	-3.5
66 525	NRL	0915	0923	-3.5
66 525	NRL	2306	2322	-3.5
66 526	NRL	0507	0517	-3.5
66 526	NRL	0654	0707	-3.5
66 526	NRL	1909	1916	-4.2
66 526	NRL	1922	1941	-4.2
66 526	NRL	2053	2105	-3.0
66 526	NRL	2236	2252	-3.0
66 527	NRL	0436	0446	-3.0
66 527	NRL	0624	0634	-3.0
66 527	NRL	1008	1009	-3.0
66 527	NRL	1503	1515	-2.8
66 527	NRL	1650	1659	-2.8
66 527	NRL	1858	1910	-2.8
66 527	NRL	2207	2223	-3.0
66 527	NRL	2352	0005	-2.8
66 528	NRL	0131	0145	-2.8
66 528	NRL	0407	0417	-2.8
66 528	NRL	0501	0513	-2.8
66 528	NRL	0936	0941	-2.0
66 528	NRL	1252	1308	-1.2
66 528	NRL	1435	1446	-1.2
66 528	NRL	1448	1502	-1.2
66 528	NRL	1610	1631	-1.2
66 528	NRL	1632	1636	-1.2
66 528	NRL	1807	1816	-1.2
66 528	NRL	1955	2010	-1.2
66 528	NRL	2137	2152	-2.8
66 528	NRL	2322	2336	-2.8
66 529	NRL	0101	0116	-1.2
66 529	NRL	0337	0349	-0.8
66 529	NRL	0522	0531	0.8
66 529	NRL	1208	1237	2.8
66 529	NRL	1403	1416	2.8
66 529	NRL	1541	1600	3.0
66 529	NRL	1726	1736	2.8
66 529	NRL	1740	1754	2.8
66 529	NRL	1758	1811	3.2
66 529	NRL	1924	1940	3.0
66 529	NRL	2055	2121	3.2
66 529	NRL	2251	2400	3.2
66 530	NRL	0307	0317	4.0
66 530	NRL	0456	0506	6.0
66 530	NRL	1020	1028	8.0
66 530	NRL	1151	1201	9.7
66 530	NRL	1518	1530	2.8
66 530	NRL	1723	1739	2.9
66 530	NRL	1853	1903	2.8
66 530	NRL	2043	2051	2.8
66 530	NRL	2222	2237	2.5
66 531	NRL	1122	1130	9.2
66 531	NRL	1303	1316	3.0
66 531	NRL	1448	1501	3.0
66 531	NRL	1636	1646	2.8
66 531	NRL	1652	1709	2.8
66 531	NRL	1826	1834	2.8
66 531	NRL	2008	2022	3.5
66 531	NRL	2152	2207	3.2

SOLAR RADIATION MONITORING SATELLITE
X-RAY

MAY 1966

OBSERVING TIMES FOR MAY 1966

DATE	STA	START UT	END UT	ASPECT ANGLE	DATE	STA	START UT	END UT	ASPECT ANGLE
66 5 1	NRL	0103	0111	-2.8	66 5 8	NRL	0105	0121	5.8
66 5 1	NRL	0249	0258	-2.8	66 5 8	NRL	0250	0258	5.8
66 5 1	NRL	0435	0442	-2.8	66 5 8	NRL	0604	0617	6.2
66 5 1	NRL	1559	1609	-2.8	66 5 8	NRL	0849	0901	8.6
66 5 1	NRL	1748	1750	-2.8	66 5 8	NRL	1033	1045	9.5
66 5 1	NRL	2059	2112	-3.2	66 5 8	NRL	1413	1423	12.0
66 5 1	NRL	2244	2257	-2.8	66 5 8	NRL	1531	1541	12.4
					66 5 8	NRL	1603	1609	13.0
66 5 2	NRL	0031	0042	-2.8	66 5 8	NRL	1719	1731	13.6
66 5 2	NRL	0220	0228	-2.8	66 5 8	NRL	1915	1934	14.5
66 5 2	NRL	0404	0416	-2.8	66 5 8	NRL	2101	2113	4.2
66 5 2	NRL	1150	1200	-2.8	66 5 8	NRL	2114	2129	3.0
66 5 2	NRL	1311	1349	-2.8	66 5 8	NRL	2247	2257	3.2
66 5 2	NRL	1524	1539	-2.8					
66 5 2	NRL	1718	1723	-2.0	66 5 9	NRL	1004	1014	3.0
66 5 2	NRL	2030	2042	-1.2	66 5 9	NRL	1152	1202	3.0
66 5 2	NRL	2214	2228	-1.5	66 5 9	NRL	2029	2044	3.0
					66 510	NRL	0006	0014	2.8
66 5 3	NRL	0149	0158	0.8	66 510	NRL	0935	0947	3.0
66 5 3	NRL	1121	1131	3.0	66 510	NRL	1123	1133	5.0
66 5 3	NRL	1308	1318	3.0	66 510	NRL	1309	1319	7.0
66 5 3	NRL	2000	2013	3.0	66 510	NRL	1501	1511	9.0
66 5 3	NRL	2144	2157	2.8	66 510	NRL	1652	1655	11.0
66 5 3	NRL	2331	2342	3.2	66 510	NRL	1816	1829	13.8
					66 510	NRL	2000	2013	15.1
66 5 4	NRL	0123	0128	5.2	66 510	NRL	2147	2158	3.5
66 5 4	NRL	0222	0233	5.2	66 510	NRL	2335	2344	4.0
66 5 4	NRL	0254	0321	5.2					
66 5 4	NRL	0449	0503	6.1	66 511	NRL	0037	0048	3.2
66 5 4	NRL	0619	0632	6.3	66 511	NRL	0112	0119	3.2
66 5 4	NRL	1052	1102	7.0	66 511	NRL	0120	0134	4.2
66 5 4	NRL	1238	1249	7.9	66 511	NRL	0251	0305	5.2
66 5 4	NRL	1423	1436	8.1	66 511	NRL	0435	0448	4.2
66 5 4	NRL	1619	1623	8.6	66 511	NRL	0619	0643	7.7
66 5 4	NRL	1729	1741	9.1	66 511	NRL	1054	1104	12.0
66 5 4	NRL	1759	1814	8.7	66 511	NRL	1239	1251	12.5
66 5 4	NRL	1931	1942	9.4	66 511	NRL	1402	1410	13.7
66 5 4	NRL	2114	2126	5.6	66 511	NRL	1431	1440	13.9
66 5 4	NRL	2303	2312	3.0	66 511	NRL	1620	1624	16.3
					66 511	NRL	1736	1807	16.3
66 5 5	NRL	0036	0058	3.2	66 511	NRL	1931	1943	2.8
66 5 5	NRL	0153	0203	5.2	66 511	NRL	2106	2128	3.2
66 5 5	NRL	0225	0234	5.2	66 511	NRL	2252	2314	5.2
66 5 5	NRL	0235	0246	5.2					
66 5 5	NRL	0406	0432	5.8	66 512	NRL	0042	0048	5.8
66 5 5	NRL	0550	0602	5.8	66 512	NRL	0052	0106	6.0
66 5 5	NRL	0733	0745	6.9	66 512	NRL	0222	0237	7.4
66 5 5	NRL	1022	1032	7.5	66 512	NRL	0405	0418	8.8
66 5 5	NRL	1203	1219	8.3	66 512	NRL	0559	0614	10.4
66 5 5	NRL	1353	1406	8.7	66 512	NRL	0833	0846	12.4
66 5 5	NRL	1516	1524	9.2	66 512	NRL	1023	1033	14.0
66 5 5	NRL	1549	1552	9.2	66 512	NRL	1208	1222	14.9
66 5 5	NRL	1902	1919	10.4	66 512	NRL	1331	1340	16.1
66 5 5	NRL	2044	2104	3.0	66 512	NRL	1357	1414	16.0
66 5 5	NRL	2222	2242	3.2	66 512	NRL	1550	1554	17.0
					66 512	NRL	1706	1728	18.8
66 5 6	NRL	0006	0027	3.2	66 512	NRL	1730	1744	12.2
66 5 6	NRL	0122	0132	3.2	66 512	NRL	1857	1913	2.8
66 5 6	NRL	0154	0205	3.2	66 512	NRL	2037	2059	3.2
66 5 6	NRL	0206	0214	3.2	66 512	NRL	2225	2244	5.2
66 5 6	NRL	0337	0358	4.2					
66 5 6	NRL	0520	0533	5.2	66 513	NRL	0021	0031	5.8
66 5 6	NRL	1135	1148	8.5	66 513	NRL	0953	1003	10.0
66 5 6	NRL	1323	1336	8.7	66 513	NRL	1140	1150	10.0
66 5 6	NRL	1446	1454	9.4	66 513	NRL	1519	1525	12.5
66 5 6	NRL	1510	1520	9.8	66 513	NRL	1649	1658	13.2
66 5 6	NRL	1631	1641	10.2	66 513	NRL	1830	1844	2.8
66 5 6	NRL	1705	1707	10.7	66 513	NRL	2016	2029	3.0
66 5 6	NRL	1821	1842	11.1	66 513	NRL	2040	2048	3.0
66 5 6	NRL	2014	2029	10.5	66 513	NRL	2205	2214	3.0
66 5 6	NRL	2030	2044	3.2	66 513	NRL	2351	0001	3.0
66 5 6	NRL	2153	2212	5.2					
66 5 6	NRL	2337	2358	5.2	66 514	NRL	0924	0934	10.0
					66 514	NRL	1258	1311	10.0
66 5 7	NRL	0135	0146	4.5	66 514	NRL	1619	1628	14.4
66 5 7	NRL	0238	0245	3.2	66 514	NRL	1800	1815	3.0
66 5 7	NRL	0307	0319	2.8	66 514	NRL	1946	1958	3.2
66 5 7	NRL	0321	0333	3.2	66 514	NRL	2321	2331	3.2
66 5 7	NRL	0504	0515	5.5					
66 5 7	NRL	0634	0648	5.2	66 515	NRL	0053	0116	5.2
66 5 7	NRL	1104	1114	9.5	66 515	NRL	0236	0249	5.8
66 5 7	NRL	1255	1305	9.5	66 515	NRL	0420	0432	7.4
66 5 7	NRL	1600	1612	10.1	66 515	NRL	0850	0900	10.8
66 5 7	NRL	1751	1801	11.2	66 515	NRL	1040	1052	12.0
66 5 7	NRL	1804	1812	11.0	66 515	NRL	1421	1425	13.6
66 5 7	NRL	1814	1828	10.2	66 515	NRL	1537	1549	15.2
66 5 7	NRL	1944	1958	11.1	66 515	NRL	1550	1558	5.5
66 5 7	NRL	2130	2149	5.8	66 515	NRL	1600	1615	6.9
66 5 7	NRL	2309	2336	7.2	66 515	NRL	1731	1743	2.8

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