COMPILATIONS

OF

SOLAR-GEOPHYSICAL DATA

Abstracted from CRPL-FB-267

Issued November 1966

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

ADDENDA TO DESCRIPTIVE TEXT OF JANUARY 1966

Included below are addenda which were issued with CRPL-FB reports in April, May, August, and September 1966. Whenever similar addenda are necessary in the future, they will appear with the appropriate monthly compilations.

From CRPL-FB-260, April 1966

AFCRL Sagamore Hill Solar Radio Observatory

The Sagamore Hill Solar Radio Observatory of the Air Force Cambridge Research Laboratories (located at 42°37'54.36"N 70°49'15.15"W) is operating a solar patrol at 8800 Mc/s , 2700 Mc/s , 1415 Mc/s , and 606 Mc/s . The patrol will include 5000 Mc/s later in 1966. The project is funded in part by the Laboratory Director's Fund. The objectives are to provide high absolute accuracy flux measurements at 606 and 1415 Mc/s (±3%), to provide coverage at other regions of the microwave spectrum with reduced absolute accuracy (±10%), and to study centimeter burst spectrum from correlated measurements.

Solar coverage is provided at the two longer wavelengths from sunrise to sunset. A 28 foot diameter polar mounted parabola and a dual frequency feed is used. At 606 Mc/s , the half power beam width is about 4°, while at 1415 Mc/s the underilluminated parabola provides a 3° beam. The shorter wavelengths operate from a polar mounted 8 foot parabola with a multi-frequency feed. Coverage is from sunrise to sunset generally, except for a period when some afternoon data will be lost due to partial antenna blockage. The parabola is underilluminated at 8800 Mc/s . Corrections are employed to convert apparent fluxes to true fluxes where required. Daily flux calibrations are made at about meridian transit each day.

All receivers are essentially "Dicke" radiometers. Bandwidth (IF) of each is about 8 Mc/s . Band pass filters (RF) and single side band operation are employed at 606 and 1415 Mc/s . The other receivers operate double side band where the L.O. is designated the operating frequency.

All flux data variation resulting from the varying distance between the sun and the earth is corrected to 1 A.U. Corrections are also made for atmospheric attenuation based on the following average vertical attenuations:

8800 Mc/s	,	.070 db
5000 Mc/s	,	.055 db
2700 Mc/s	,	.051 db
1415 Mc/s	,	.05 db
606 Mc/s	,	.045 db

Outstanding occurrences are listed according to the IAU classification as described in the Pennsylvania State University section of the descriptive text.

From CRPL-FB-261, May 1966

Solar Radiation Monitoring Satellite

Outstanding X-ray Events observed by the Solar Radiation Satellite, 1965-16D and the Explorer XXX Satellite, 1965-93A, beginning with January 1966, are reported in Section III. These data have been collected under the direction of Ronald K. Oines at Northern State College, Aberdeen, South Dakota, with advice on data reduction from Robert W. Kreplin of the U. S. Naval Research Laboratory. The presentation is therefore similar to that of earlier data reported from the U. S. Naval Research Laboratory. The flux is given in ergs cm^{-2} sec^{-1} assuming that the regions of the solar x-ray spectrum can be approximated, as described in the descriptive text issued January 1966 on pages 14-15 under Solar X-ray Radiation. The 0-3A spectral range is calculated using a 10×10^6 °K "gray" body assumption.

Solar Radio Emission

Beginning with this issue the Outstanding Occurrences observed at discrete frequencies are combined together and are presented in one table in Section IV. The discussions in the descriptive text published in January 1966, with addendum in CRPL-FB-260 published in April, still apply for each individual reporter.

The table which follows on page 3 gives the key for identifying type of event and indicates which frequencies have been or may be expected to report each type of event. The second column lists the URANA or URANE synoptic code that is used by the International Ursigram and World Days Service for daily telegraphic interchange of data. The name code used to identify each reporting station is included at the bottom the table.

East-West Solar Scans

East-West solar scans from the 43 cm solar radio array at Fleurs, Australia, are presented in Section IV. These records are obtained in a manner similar to that for the 21 cm observations. Changes are being made in the installation at both wave-lengths and will be more fully discussed in a later edition of "Solar-Geophysical Data".

NUMBER CODE FOR TYPE OF SOLAR RADIO EMISSION EVENT

	Code	IUWDS URAN-Form	Mc/s 10700	8800	2800	2695	2690	1415	960	606	328	223	108/107	18
Simple 1	1	E1	x	x	x	x	x	x	x	x	x			
Simple 1F	2	E1			x									
Simple 2	3	E2	x	x	x	x	x	x	x	x	x			
Simple 2F	4	E2			x									
Simple	5								x		x			
Minor	6	A4										x	x	x
Minor +	7											x	x	
Simple 3	20	E3	x	x	x	x	x	x	x	x	x			
Simple 3A	21	E3			x									
Simple 3F	22	E3			x									
Simple 3AF	23	E3			x									
Rise	24	A1	x		x		x		x		x	x	x	
Rise A	25				x									
Fall	26				x									
Rise and Fall	27		x	x		x	x	x	x	x	x			
Precursor	28	E9		x	x									
Post Burst Increase	29	E4	x	x	x	x	x	x	x	x	x			
Post Burst Increase A	30	E4			x									
Post Burst Decrease	31	E5			x									
Fluctuations	40	E7	x	x	x	x	x	x	x	x	x			
Group of Bursts	41	A3,E8	x	x	x	x	x	x	x	x	x	x	x	
Series of Bursts	42	A2										x	x	x
Onset of Noise Storm	43	A7	x	x		x	x	x	x	x	x	x	x	x
Noise Storm in Progress	44	A6										x	x	x
Complex	45	E6	x	x	x	x	x	x	x	x	x			
Complex F	46	E6	x	x	x	x	x	x	x	x	x			
Great Burst	47	E6	x	x	x	x	x	x	x	x	x			
Major	48	A8										x	x	
Major +	49	A9										x	x	

Code	Station	Frequencies Reported, Mc/s
BOES	Boeing - Seattle	223
BOUL	ESSA - Boulder	108
HALE	Haleakala - Hawaii	107
OTTA	ARO-Ottawa	2800
PENN	Pennsylvania State University	10700, 2690, 960, 328
PENT	DRAO-Penticton	2700
SGMR	AFCRL-Sagamore Hill	8800, 2695, 1415, 606
WASH	Washington State University	486

From CRPL-FB-264, August 1966 and CRPL-FB-265, September 1966

Mt. Wilson Magnetic Classification of Sunspots

Starting with the data for July 1966 the Mount Wilson magnetic sunspot classification lists include the Mount Wilson numbers for all spot groups observed at Mount Wilson. If a magnetic classification is based on magnetic measurements, that classification is enclosed in parentheses. A magnetic classification not enclosed in parentheses is determined from the appearance of the spot groups and the plage. An "X" in the classification column indicates sufficient information was not available to make an intelligent determination of the magnetic classification. Up to this time the only magnetic classifications included in these lists have been those for which there were magnetic measurements.

The largest magnetic field strength measured in each group is now given. Starting with the data for August, 1966, the number which appears on the right hand side of the column labelled "Type" is a coded representation of the largest magnetic field strength measured in the group. The field strength is only given to the nearest 500 gauss because it is felt that the uncertainties of measurement do not permit more than that accuracy. These measurements are made with the line λ5250.216 (Fe I). No correction is made for blending of the Zeeman components. The code is as follows:

Code	Maximum field Strength in gauss
1	100-500
2	600-1000
3	1100-1500
4	1600-2000
5	2100-2500
6	2600-3000
7	3100-3500
8	3600-4000
9	4100-4500
10	>4500

Cosmic Ray Indices

The chart of pressure corrected hourly totals from the neutron monitors now presents data from Alert as well as Deep River, beginning with data from July 1966.

Geomagnetic Activity Indices

As a footnote to the table of indices, beginning with July 1966 data, the provisional storm sudden commencements are listed as provided by IUGG: Association of Geomagnetism and Aeronomy, Commission 4, Permanent Service of Geomagnetic Indices.

Solar X-Ray Radiation

The descriptive text of January 1966 described the instrumentation for the NRL Solar Radiation Satellite 1964-01D. Data from the NRL satellite, Explorer 30, 1965-93A for March and June 1966 are given in this issue. Descriptive text for 1965-93A is given below:

1. Daily Average X-Ray Flux Indices

The average x-ray flux index for each day is calculated from individual records made during the intervals listed in the Table of Observing Times. Four x-ray bands are normally monitored but because of the great variability observed in the 0.5-3 A band this data is not included in the table of daily averages.

a. 44-60 A Index

The reduction of the 44-60 A photometer signal to flux values involves the use of a "gray body" approximation (reference 1) in which a temperature of 0.5×10^6 ^oK is used to define the wavelength distribution. Austin, Purcell, and Tousey (reference 2) have photographed a line spectrum in the region 44-60 A. Until quantitative measurements of line intensities are made for this region the 44-60 A flux levels must be used with some reservation. Comparisons of flux values at different times can however be made with an accuracy set by a standard deviation of about 2% in the flux value obtained from the record of an individual satellite pass during quiet solar conditions.

b. 8-20 A Index

The 8-20 A flux index is calculated on the assumption that this region of the solar spectrum may be approximated by a 2×10^6 ^oK "gray body." Measurement of the solar spectrum between 13 and 26 Angstroms by Blake, Chubb, Friedman and Unzicker (reference 3) has revealed a number of emission lines, thus the same qualifications must be made in assigning an error to the absolute flux values as was made in the case of the 44-60 A index. The standard deviation in the average flux is about 8% for this band.

c. 0-8 A Index

The flux index in this spectral range is calculated using a 2×10^6 ^oK "gray body" approximation. For purposes of comparison of the flux indices a standard deviation of about 15% in the average flux value computed for a single pass may be used.

2. Outstanding Events

In this Table are listed those intervals and flux indices when the flux in the 0-8 A and 0-3 A bands was significantly different from the average for the day or when a change in flux value with time was observed. In this Table the 44-60 A index is omitted because of the relatively small changes observed with solar activity in this band.

3. Times of Observation

These are the intervals of time (UT) when the satellite was in range of a telemetry station. Intervals have not been included when x-ray flux could not be reduced due to noise or other interference.

References

1. Kreplin, R. W., Ann. Geophys., 17, 151-161 (1961).

2. Austin, W. E., J. D. Purcell and R. Tousey, Astron. J., 69, 133 (1964).

3. Blake, R. L., T. A. Chubb, H. Friedman and A. E. Unzicker, Astrophys. J., 142, 1-12 (1965).

From CRPL-FB-266, October 1966

Revisions

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

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

X-ray Radiation reports from France

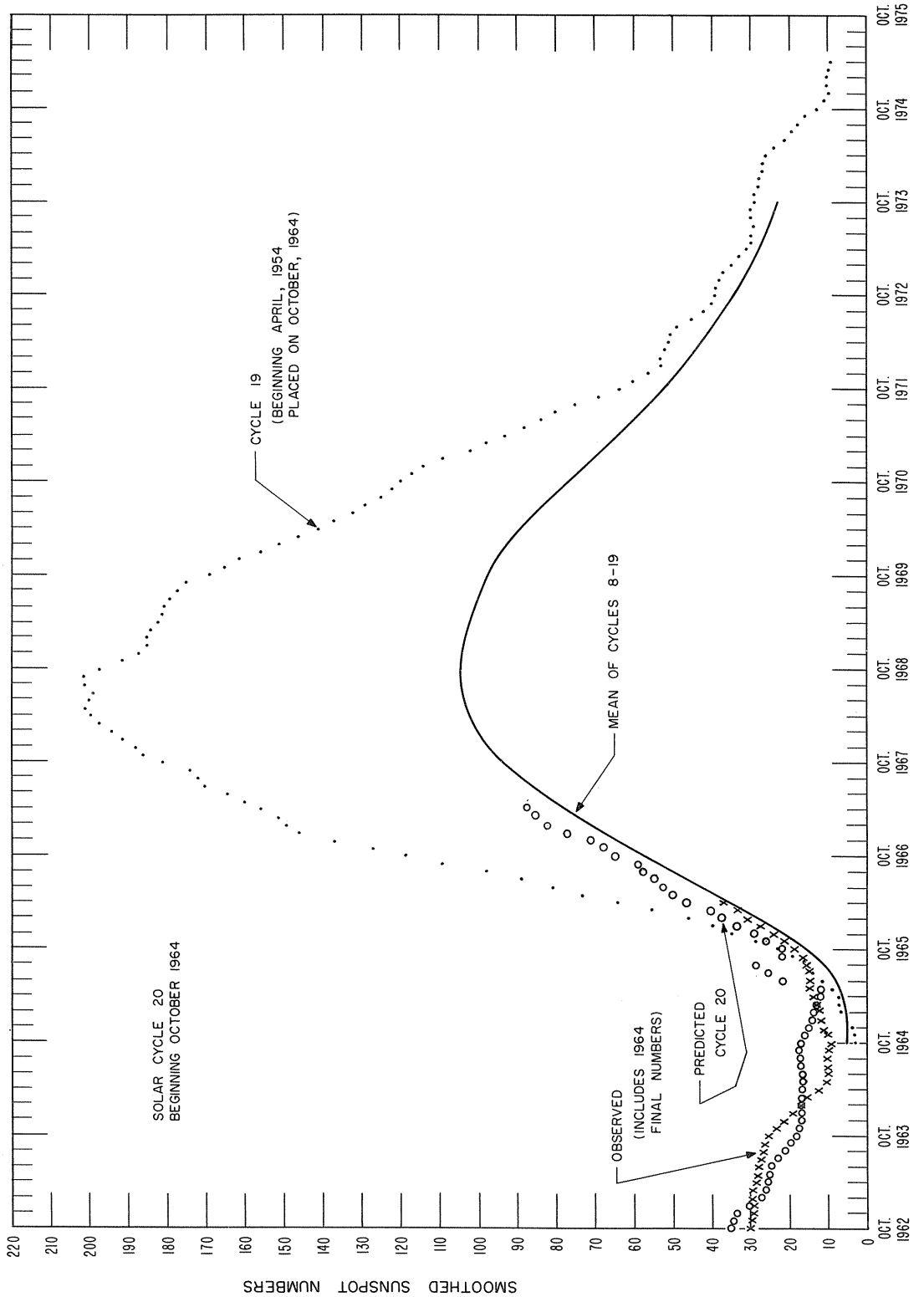
X-ray flux values observed by the Explorer 30 (1965-93A) satellite are reported in this issue of CRPL-FB by the Centre National d' Etudes Spatiales, France and the Observatoire de Paris-Meudon under the direction of R. Michard. The flux values given in ergs cm^{-2} sec^{-1} were computed from ampere measurements by the I.T.S.A. Space Disturbances Laboratory. They are usually measured at the beginning of the observing period. When bursts occur pre-burst or post-burst values are given. In the remarks column V.A. signifies that some of the photometers detected particles from the terrestrial radiation belts during part of the transit. The telemetry stations receiving the data from the satellite are coded as follows:

PTA	Pretoria, Rep. of South Africa
BZV (or BRZ)	Brazzaville, Rep. of Congo
ODG (or OGD)	Ouagadougou, Upper Volta
HMG	Hamaguir, Algeria
LBN	Lebanon (near Beirut)
BTY	Bretigny, France

Solar Flares

In the Solar Flare tables beginning with this issue a minus sign, -, is used in the importance column to indicate subflares instead of the S previously used. This permits easier visual selection of the more important flares.

Errata: The tables of Solar Radio Emmission Outstanding Occurrences in CRPL-FB-266, October 1966, on pp IV a-c, are for September 1966, not August 1966 as indicated.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

	1965		1966									
DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	29	13	18	7	25	64	50	71	49	78	44	57
2	28	8	17	9	11	58	48	74	49	62	44	55
3	20	8	16	20	11	74	57	41	54	65	25	50
4	13	8	15	17	18	74	61	60	53	51	18	36
5	13	8	8	17	12	55	38	43	48	53	26	40
6	29	8	7	17	14	59	23	43	46	50	30	44
7	40	8	7	16	10	70	13	38	58	31	36	53
8	46	15	13	13	9	65	16	35	68	13	38	48
9	38	7	13	10	15	47	8	33	56	7	39	44
10	41	7	7	11	13	37	0	25	58	0	37	65
11	40	0	8	14	10	25	14	43	52	16	42	66
12	26	0	0	8	0	27	14	34	62	36	38	49
13	17	14	17	16	0	24	23	34	56	30	29	72
14	16	0	30	12	0	29	52	31	37	37	35	64
15	10	14	36	16	9	29	46	22	34	41	38	60
16	9	22	57	13	26	35	47	40	48	36	57	70
17	7	21	50	19	44	40	33	46	42	35	76	70
18	0	20	64	24	53	40	27	39	49	35	83	70
19	0	18	68	32	60	24	34	33	38	27	76	66
20	0	15	63	39	54	37	57	42	65	24	78	81
21	0	10	52	41	49	40	80	29	55	22	89	96
22	7	11	44	50	52	56	66	34	66	38	86	81
23	0	9	38	55	40	69	68	59	56	65	71	70
24	7	8	41	42	31	58	68	63	70	71	62	61
25	0	12	27	37	23	56	64	80	67	89	68	50
26	7	23	19	36	18	54	70	78	74	95	54	44
27	0	29	16	35	10	40	66	69	52	90	48	39
28	8	64	14	31	12	40	60	52	61	84	35	28
29	8	64	19		35	48	39	47	76	89	40	25
30	15	44	28		42	52	58	55	63	76	38	24
31		38	15		52		56		66	66		35
MEAN	15.8	17.0	26.7	23.5	24.5	47.5	43.7	46.4	55.7	48.8	49.3	55.3

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

AMERICAN, $R_{A'}$

	1965		1966									
DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	29	10	25	0	11	32	24	56	33	77	30	53
2	27	10	21	12	12	37	37	48	37	70	28	44
3	20	10	19	14	14	34	35	41	54	69	18	42
4	11	9	13	16	16	49	19	50	51	64	16	39
5	1	10	7	17	15	40	15	39	36	46	15	34
6	29	12	1	15	14	47	17	26	30	40	20	44
7	43	9	0	14	10	49	12	22	52	23	27	41
8	34	2	1	13	10	55	11	26	45	8	36	39
9	38	3	0	12	16	36	8	27	49	0	36	45
10	43	0	0	14	15	26	0	24	44	1	48	44
11	38	0	0	15	7	19	0	26	56	17	41	73
12	24	0	0	11	0	22	5	32	47	24	32	55
13	15	0	19	12	3	16	9	18	27	31	28	72
14	16	0	30	14	1	22	22	21	19	28	31	65
15	14	18	37	13	15	31	28	24	14	33	37	57
16	12	21	31	16	21	28	24	33	33	42	47	59
17	0	18	43	13	43	28	18	36	40	38	61	66
18	0	19	43	25	46	29	14	31	40	33	58	65
19	0	16	55	24	46	16	33	27	35	29	67	73
20	0	0	55	33	41	42	56	28	46	15	63	82
21	0	7	41	36	32	38	59	32	38	17	77	78
22	0	8	34	43	29	42	51	42	43	43	63	77
23	3	10	36	55	19	58	59	58	56	66	64	64
24	4	6	31	47	17	51	59	61	59	83	57	60
25	0	17	18	47	16	47	49	66	57	89	65	47
26	0	20	14	47	10	34	61	62	65	96	39	41
27	0	35	15	32	0	22	48	44	62	95	26	16
28	6	44	14	28	12	22	41	35	75	86	26	3
29	9	55	20		36	33	40	29	71	81	35	28
30	10	47	21		41	33	37	33	75	51	36	29
31		28	3		32		56		75	33		35
MEAN	14.2	14.3	20.9	22.8	19.4	34.6	30.5	36.6	47.2	46.1	40.9	50.6

DAILY SOLAR FLUX AT 2800 Mc s
OTTAWA ARO

OBSERVED FLUX, S

	1965		1966									
DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	78.8	75.4	82.0	79.9	81.2	106.9*	90.3	101.9	96.8	122.2	114.5	101.2
2	79.5	75.0	78.9	79.2*	78.0	106.4	92.5	101.0	95.0	116.1	104.4	101.9
3	81.1	74.9	78.5	79.8	77.1	102.1	92.4	99.7	96.0	114.8*	101.5	103.1
4	79.8	74.5	80.5	81.3	76.7	102.5	91.0	99.1	101.4	112.7*	100.2	100.6*
5	78.0	75.4	80.0	82.9	76.0	101.9	87.0	98.7	101.6	107.4	98.9	100.0
6	80.7	76.2	79.7	84.5	76.6	104.0	86.0	98.9	106.1	103.0	96.4	102.0*
7	85.2	75.3	80.9	85.1	77.4	102.6*	88.2	94.1	108.9	98.7	94.4*	103.2
8	80.4	76.7	80.6	84.6	77.5	107.0*	86.2	96.6	110.6	95.0	94.8*	99.6
9	82.0	75.0	80.1	85.2	79.6	100.0	85.9	95.9	104.3	93.8	94.0	103.8
10	84.1	75.3	79.8	86.0	79.6	94.4	84.9	93.9	104.6*	91.8	92.6	106.8
11	84.2	75.6	80.9	85.8*	79.0	93.5	86.6	93.2	105.4	90.1	95.4	110.3
12	80.8	75.9	84.0	85.4	79.3	94.4	90.7	93.0	99.4	90.4	99.5*	115.3
13	77.3	74.0	87.2	86.1	81.0	92.6	91.0	93.1	97.2	90.8	101.1	123.4*
14	76.0	74.7	93.2	86.1	82.3	90.5	95.1	93.9	96.6	90.5	106.0	120.9
15	76.5	76.8	101.9	85.4	88.1*	95.7	97.1	91.8	97.9	91.3	110.8	121.3
16	74.0	77.6	106.0	84.7	93.8*	92.6	97.9	94.9	99.5	92.8	123.3*	121.2*
17	74.3	78.4	101.7*	84.1	106.2*	94.5	96.7	96.4	98.0	94.4	127.8	121.4*
18	75.0	78.4	104.8*	84.1	110.6	92.1	96.4	95.1	98.1	95.1	141.3	119.5*
19	73.4	76.8	108.6*	83.0	115.5	88.2	104.6*	93.8	98.3	97.7	145.3	116.5*
20	72.7	74.5	102.3	84.7*	111.9	92.6	112.8*	91.3	98.6	99.2	144.9*	125.2
21	72.2	74.1	98.9	87.6	121.2	90.8	120.6	90.5	100.5	100.4	136.1	122.0*
22	71.8	72.3	94.7*	87.9	105.8	92.4	118.1	93.0	103.2	103.1	130.6*	121.0*
23	71.3	72.7	93.5	84.5*	96.8	97.8	111.1	96.0	111.3	112.2	126.6*	112.2
24	71.2	71.2	91.8	83.7	93.5	102.5	114.7	100.2	116.9	119.4*	125.3	107.3
25	70.6	72.1	88.1	80.9	91.6	102.6*	112.2	101.5*	122.1	123.6*	118.2*	102.0
26	71.8	76.9	85.4	84.8	85.0	100.0*	109.4	102.1*	123.7	127.5	108.9	98.9
27	74.1	83.7	82.4	84.8	83.4	95.6	105.6	97.5	120.1	130.7	102.5	93.2
28	77.0	83.8	80.5	85.7	87.9	93.6		98.1	120.5	130.0*	97.5	95.4
29	73.9	84.7	80.7		96.4	93.1	103.2	96.5	128.9	127.3	98.3	101.1
30	75.1	81.9	78.7		99.2	91.9	98.8	97.4	124.2	123.8	95.4	97.1
31		80.8	77.7		110.6		102.7		121.0	118.7		98.6
MEAN	76.8	76.5	87.9	84.2	90.3	97.2	98.3	96.3	106.7	106.5	110.9	108.6

FLUX ADJUSTED TO 1 A.U., S_a

	1965		1966									
DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	77.6	73.3	79.3	77.6	79.7	106.8*	91.7	104.8	100.1	125.9	116.6	101.4
2	78.2	72.9	76.3	76.9*	76.7	106.3	94.0	103.9	98.2	119.6	106.3	102.0
3	79.8	72.7	75.9	77.5	75.8	102.1	94.0	102.6	99.3	118.2*	103.2	103.2
4	78.4	72.3	77.8	79.0	75.5	102.6	92.5	102.0	104.8	116.0*	101.9	100.6*
5	76.7	73.2	77.4	80.6	74.8	102.0	88.6	101.7	105.0.	110.5	100.5	100.0
6	79.2	74.0	77.1	82.1	75.5	104.2	87.5	101.9	109.7	106.0	97.9	101.9*
7	83.7	73.0	78.2	82.8	76.2	102.8*	89.9	96.9	112.6	101.5	95.8*	103.1
8	78.9	74.4	77.9	82.3	76.4	107.3*	87.8	99.5	114.4	97.7	96.2*	99.4
9	80.4	72.7	77.4	82.9	78.5	100.3	87.5	98.9	107.8	96.4	95.3	103.5
10	82.4	73.0	77.2	83.8	78.6	94.8	86.6	96.8	108.1*	94.3	93.9	106.5
11	82.5	73.2	78.2	83.6*	78.0	93.9	88.3	96.1	109.0	92.5	96.6	109.8
12	79.1	73.5	81.2	83.2	78.3	94.8	92.6	95.9	102.7	92.8	100.8*	114.8
13	75.7	71.7	84.3	83.9	80.0	93.1	92.9	96.1	100.4	93.2	102.4	122.8*
14	74.4	72.4	90.1	83.9	81.4	91.0	97.2	96.9	99.8	92.8	107.4	120.3
15	74.8	74.4	98.5	83.3	87.1*	96.3	99.2	94.7	101.1	93.7	112.0	120.6
16	72.4	75.1	102.6	82.7	92.9*	93.2	100.1	97.9	102.8	95.1	124.6*	120.3*
17	72.6	75.9	98.4*	82.1	105.1*	95.2	98.9	99.5	101.2	96.8	129.1	120.5*
18	73.3	75.9	101.4*	82.2	109.6	92.9	98.7	98.2	101.3	97.5	142.6	118.5*
19	71.6	74.3	105.1*	81.1	114.6	89.0	107.1*	96.9	101.5	100.0	146.6	115.6*
20	70.9	72.1	99.0	82.8*	111.0	93.5	115.5*	94.3	101.8	101.6	146.0*	124.1
21	70.5	71.7	95.7	85.7	120.3	91.7	123.6	93.5	103.7	102.7	137.2	120.9*
22	70.0	70.0	91.8*	86.0	105.1	93.4	121.0	96.1	106.5	105.5	131.5*	119.8*
23	69.5	70.3	90.6	82.7*	96.2	98.8	113.9	99.2	114.9	114.7	127.5*	111.1
24	69.3	68.8	88.9	81.9	92.9	103.7	117.7	103.5	120.6	122.0*	126.0	106.1
25	68.8	69.7	85.4	79.3	91.1	103.8*	115.1	104.8*	126.0	126.3*	118.8*	100.8
26	69.9	74.4	82.7	83.1	84.7	101.3*	112.3	105.6*	127.6	130.2	109.4	97.7
27	72.1	80.9	79.9	83.2	83.1	96.0	108.5	100.8	123.8	133.4	102.9	92.0
28	74.9	81.0	78.1	84.1	87.6	94.9		101.4	124.2	132.6*	97.9	94.1
29	71.9	81.9	78.3		96.1	94.5	106.8	99.8	132.9	129.8	98.6	99.7
30	73.0	79.2	76.3		99.0	93.3	101.6	100.7	128.0	126.1	95.7	95.7
31		78.1	75.4		110.4		105.6		124.6	120.9		97.1
MEAN	75.1	74.1	85.0	82.1	89.4	97.8	100.6	99.4	110.1	109.2	112.4	107.9

CALCIUM PLAGE AND SUNSPOT REGIONS

OCTOBER 1966

Oct. 1966	LAT.	McMATH PLAGE NUMBER	RETURN OF REGION	CALCIUM PLAGE DATA						SUNSPOT DATA		
				CMP VALUES		HISTORY	AGE (ROTATIONS)	DATE FIRST SEEN	DURATION (DAYS)	CMP VALUES		HISTORY
				AREA	INT.					AREA	COUNT	
2.4	N35	8533	New	(200)	(2.0)	b - d	1	10/4	2			
3.4	N18	8534	New	(200)	(1.5)	b - d	1	10/4	1			
3.8	N33	8526	New	300	2.5	ℓ - d	1	9/28	11	(10)	(1)	ℓ - d
4.1	S23	8527	8484	300	1.0	ℓ ⟋ d	2	9/28	11			
4.3	N28	8535	New	200	1.5	b - d	1	10/4	3			
5.7	S21	8528 (1)	New	1100	2.0	ℓ ⟋ ℓ	1	9/28	15	10	2	b ∧ ℓ
7.5	N17	8540	New	(200)	(2.0)	b - d	1	10/8	1			
10.0	N26	8530 (2)	8496	6400	3.5	ℓ ⟋ ℓ	5	10/2	14	80	16	ℓ ∧ d
										20	10	b - d
11.9	N27	8537 (3)	8497	300	1.0	ℓ ⟍ d	5	10/5	11			
13.1	N28	8536	New	300	2.0	ℓ ⟍ d	1	10/6	10			
14.0	N20	8539	8511	(800)	(2.0)	ℓ - ℓ	2	10/7	>11	(10)	(1)	b - d
14.9	N51	8552	New	(100)	(1.5)	b - d	1	10/17	1			
15.5	N26	8544	New	900	2.0	b - d	1	10/10	≥8	(10)	(4)	b - d
16.7	N27	8543	New	(400)	(1.5)	ℓ - d	1	10/9	9			
16.7	N06	8545	8505	(2400)	(2.5)	ℓ ⟍ ℓ	3	10/10	13	380	1	ℓ ∧ ℓ
17.3	S24	8557	New	(100)	(2.0)	b - ℓ	1	10/21	2			
17.9	N20	8546 (4)	8506	5000	3.0	ℓ ⟋ ℓ	2	10/11	14	350	44	ℓ ∧ ℓ
										10	2	b - d
										20	12	b ∧ ℓ
										10	7	ℓ - d
19.3	N16	8548 (5)	8509	(1100)	(2.0)	ℓ ⟋ ℓ	2	10/12	13			
20.0	N27	8550	New	900	2.5	ℓ ∧ ℓ	1	≤10/14	>12	10	3	b - d
21.3	N23	8551	8514	700	2.0	ℓ ∧ ℓ	3	10/15	13			
22.1	N28	8558	New	300	2.5	b - ℓ	1	10/22	8	10	4	b - d
23.7	S26	8561	New	(300)	(3.5)	b ⟋ ℓ	1	10/24	6	(30)	(3)	b - d
23.8	N22	8553	8516	2500	3.0	ℓ ∧ ℓ	2	10/17	14	(10)	(1)	b - d
24.5	S09	8564	New	(100)	(1.5)	b - d	1	10/27	1	(10)	(2)	b - d
24.8	N38	8559	New	100	1.5	b - d	1	10/22	5			
25.3	S19	8554	8522	1600	3.0	ℓ ⟋ ℓ	2	<10/20	>12	10	3	ℓ ⟍ d
25.4	N13	8556	New	1700	3.5	ℓ ⟍ ℓ	1	≤10/20	≥12	50	27	b ∧ d
25.8	N29	8555	New	1400	3.0	ℓ ⟍ ℓ	1	≤10/20	≥13	10	1	b - d
27.6	S18	8562	8529	300	1.5	ℓ ⟋ d	2	10/21	11			
29.1	N21	8566	New	900	3.0	b - ℓ	1	10/28	8	10	3	b - ℓ
30.1	N32	8560	New	1000	3.5	ℓ - ℓ	1	10/23	≥13	(10)	(1)	b - d
31.0	N22	8567	New	700	3.5	b - ℓ	1	10/28	>8	70	9	ℓ ⟋ d

(1) Region 8528 is primarily a new region that has formed in the position of region 8485 of the previous rotation.
(2) Region 8530 is primarily a return of regions 8496 and 8497, although it also contains some weak remnants of region 8491.
(3) Region 8537 is a return of part of region 8497.
(4) Region 8546 is a return of regions 8506 and 8509.
(5) Region 8548 is a return of part of region 8509.

Regions 8532, 8538, 8541, 8542 and 8565 have been omitted from this list because of their ephemeral nature and low intensity.

Region 8531 has been merged with 8530, 8547 with 8545, and 8549 with 8546.

No calcium plage observations were secured at the McMath-Hulbert Observatory on October 13, 16, 18, and 19, 1966.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

OCTOBER 1966

Oct. 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	1740	N23	W59	(βγ)3	16138
		S18	W45	(β)2	16140
		S18	W21	(βp)4	16141
		N32	E28	(αf)2	16142
2	No Obs.				
3	2240	N26	W84	β	16138
		S15	W81	αp	16140
		S17	W51	(βp)2	16141
		N21	E63	(βp)3	16143
4	1630	S16	W64	(αp)1	16141
		N19	E55	(βp)3	16143
		N21	E65	(βf)2	16144
5	1650	S17	W80	αp	16141
		N20	E42	βp	16143
		N22	E51	βf	16144
		S25	E05	αf	16145
6	1800	N20	E28	(βp)4	16143
		N21	E37	(βγ)2	16144
		S24	W09	(βf)3	16145
7	2340	N20	E12	(βγ)5	16143
		N22	E21	βp	16144
		S24	W27	(β)3	16145
		N25	E28	(β)1	16146
8	2035	N21	E02	(βp)4	16143
		N22	E13	(αf)2	16144
		S24	W38	(βf)3	16145
9	2300	N20	W12	(βγ)3	16143
		N22	W01	(αf)1	16144
		N22	E10	(βp)2	16147
		S24	W52	(βp)3	16145
10	2125	N21	W26	βp	16143
		N23	W03	βp	16147
		S22	W65	βf	16145
		N23	E58	βf	16148
		N17	E88	αp	16149
		N05	E79	αp	16150
11	2245	S24	W76	(βf)2	16145
		N21	W40	(αp)2	16143
		N25	W31	(βp)2	16151
		N23	W17	(βp)2	16147
		N22	E43	(βp)1	16148
		N18	E70	*(βf)3	16149
		N05	E63	(αp)5	16150
12	1640	N21	W50	(αp)2	16143
		N25	W41	(βp)2	16151
		N23	W26	(βp)2	16147
		N22	E30	(αp)1	16148
		N18	E61	*(βf)3	16149
		N05	E54	(αp)6	16150
		N20	E67	(βp)2	16152
		N23	E79	(αp)1	16153
13	1750	N22	W43	(αp)1	16147
		N16	E57	(αp)2	16149
		N05	E40	(αp)6	16150
		N20	E53	(β)3	16152
		N23	E66	(αp)2	16153
		N26	E73	(αp)1	16154
14	No Obs.				
15	0010	N05	E23	(αp)4	16150
		N20	E37	(β)4	16152
		N21	E49	(αp)1	16153
		N25	E57	(αp)2	16154
15	1615	N06	E14	(αp)7	16150
		N21	E27	(γ)4	16152
		N23	E40	(αp)1	16153
		N26	E49	(αp)2	16154
16	2135	N06	W02	αp	16150
		N21	E13	βγ	16152
		N24	E24	βp	16153
		N26	E33	αp	16154
17	2030	N06	W15	(αp)6	16150
		N21	W01	(βp)4	16152
		N24	E12	(βp)1	16153
		N14	E04	(βf)1	16155

*Reversed polarities.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

OCTOBER 1966

Oct. 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
18	1555	N06	W26	(αp)6	16151
		N21	W11	(βp)5	16152
		N24	E02	(βp)1	16153
		N14	W07	(βp)2	16155
19	No Obs.				
20	No Obs.				
21	2130	N07	W73	αp	16150
		N14	W56	βp	16155
		N22	W60	βf	16152
		N14	E48	βp	16156
		S16	E42	αp	16157
22	2130	N07	W83	αp	16150
		N14	W67	βf	16155
		N22	W70	βf	16152
		N14	E36	βp	16156
		S16	E30	αp	16157
23	1740	N15	W79	βf	16155
		N14	E23	(βp)4	16156
		S16	E18	(αf)3	16157
24	1615	N19	W89	αf	16155
		N13	E12	(βγ)5	16156
		N30	W18	(αf)2	16159
		S17	E03	(αp)4	16157
		S25	W17	(βp)4	16158
25	2300	N13	W06	(βf)4	16156
		S16	W13	(αp)2	16157
		S27	W30	(β)5	16158
		N29	W37	(αf)2	16159
26	1630	N14	W15	(βf)3	16156
		S16	W22	(αp)1	16157
		S25	W40	(βp)4	16158
		N30	W48	(βf)2	16159
27	No Obs.				
28	No Spots				
29	1505	N16	W57	(αp)1	16156
		N23	W09	(βγ)2	16160
		N22	E18	(βγ)4	16161
30	1530	N21	W24	(β)3	16160
		N20	E06	(βf)4	16161
31	2050	N22	W41	(βp)2	16160
		N20	W08	(αf)3	16161
		N36	W19	(βp)2	16162
		N11	E71	(αp)1	16163

FINAL CORONAL LINE EMISSION INDICES

JULY 1966

CMP July 1966	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1
1	84	124	31	48	11	14	10	11	12	13	x	x	90	123	x	x
2	76	111	22	44	16	28	14	22	9	16	x	x	65	105	x	x
3	x	x	x	x	x	x	x	x	7	23	12	21	84	131	36	70
4	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5	53	85	11	18	11	15	11	13	11	12	8	9	80	117	15	25
6	69	94	15	22	16	24	14	16	x	x	x	x	x	x	x	x
7	83	138	16	28	14	17	16	22	x	x	x	x	x	x	x	x
8	97	144	9	18	18	26	15	20	10	12	11	12	98	124	15	23
9	98	135	13	24	19	23	19	25	10	13	9	10	72	93	9	11
10	77	92	x	x	24	28	x	x	x	x	x	x	x	x	x	x
11	62	76	x	x	19	23	x	x	x	x	x	x	x	x	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	66	94	16	30	36	61	x	x	31	44	x	x	46	88	x	x
15	73	105	x	x	40	62	x	x	43	58	14	34	59	67	17	72
16	32	42	x	x	44	56	x	x	28	35	19	25	38	53	15	25
17	67	118	37	70	41	60	25	42	30	56	13	15	41	52	15	26
18	x	x	x	x	x	x	x	x	23	40	17	25	55	77	19	34
19	70	128	20	41	19	24	12	16	26	28	19	23	78	127	18	27
20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
21	x	x	x	x	x	x	x	x	27	60	16	32	74	107	12	15
22	56	84	19	27	20	35	15	30	45	92	14	19	60	72	13	18
23	80	134	13	21	24	40	12	16	x	x	x	x	x	x	x	x
24	x	x	x	x	x	x	x	x	21	30	25	28	69	96	17	27
25	x	x	x	x	x	x	x	x	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	21	23	16	20	130	176	20	33
28	66	94	x	x	13	29	x	x	13	15	15	17	91	123	18	36
29	x	x	50	104	28	44	11	38	16	21	14	23	62	72	9	13
30	82	124	22	34	9	10	12	13	15	23	13	15	116	144	15	20
31	87	121	26	43	8	9	8	9	13	19	11	24	106	179	30	50

FINAL CORONAL LINE EMISSION INDICES

AUGUST 1966

CMP August 1966	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1
1	92	119	26	31	9	10	14	17	15	22	23	38	125	178	66	103
2	114	141	39	72	19	30	16	22	9	12	9	12	160	211	28	38
3	x	x	x	x	x	x	x	x	15	16	6	14	109	175	35	52
4	109	157	24	36	8	10	11	16	18	31	15	23	93	131	28	56
5	99	131	12	24	16	34	17	23	x	x	x	x	x	x	x	x
6	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
7	79	89	17	24	10	19	21	30	x	x	x	x	x	x	x	x
8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
9	x	x	x	x	x	x	x	x	16	24	x	x	49	63	x	x
10	66	74	8	11	26	35	15	17	10	50	15	22	55	66	12	23
11	57	69	12	14	49	54	20	34	64	153	15	27	64	77	11	16
12	46	55	6	17	39	59	15	22	46	82	16	41	41	48	8	10
13	61	68	12	18	45	57	14	21	31	42	21	34	51	67	12	13
14	73	96	8	12	36	71	15	28	26	41	20	34	51	56	35	67
15	71	112	43	124	26	38	24	47	x	x	x	x	x	x	x	x
16	88	124	18	35	15	19	11	12	19	28	x	x	55	87	x	x
17	74	109	54	114	20	26	22	40	29	41	x	x	118	144	x	x
18	49	58	36	65	25	29	12	22	16	18	12	17	53	74	17	24
19	x	x	x	x	x	x	x	x	14	20	9	12	59	115	11	12
20	x	x	x	x	x	x	x	x	14	21	25	41	34	44	26	35
21	x	x	x	x	x	x	x	x	17	24	7	9	40	44	11	15
22	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
23	95	120	x	x	25	39	x	x	x	x	x	x	x	x	x	x
24	103	124	25	46	12	25	16	25	x	x	x	x	x	x	x	x
25	104	163	24	44	15	28	12	20	15	16	11	15	65	82	8	10
26	86	115	58	100	17	22	25	41	9	10	11	15	34	48	8	14
27	108	135	27	34	11	18	12	15	14	19	8	12	111	156	16	23
28	90	115	50	96	21	27	32	54	21	23	14	17	136	174	16	26
29	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
30	x	x	x	x	16	23	x	x	x	x	x	x	x	x	x	x
31	111	168	26	41	23	28	9	30	13	20	7	24	69	137	29	54

FINAL CORONAL LINE EMISSION INDICES

SEPTEMBER 1966

CMP September 1966	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1	G_6	G_1	R_6	R_1
1	91	142	19	35	16	20	25	34	21	32	15	29	75	93	14	21
2	73	119	10	15	35	88	17	27	x	x	x	x	x	x	x	x
3	44	57	32	51	34	79	36	67	x	x	x	x	x	x	x	x
4	34	42	11	17	16	28	16	42	x	x	x	x	x	x	x	x
5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	x	40	91	20	29	40	45	8	18
8	43	47	13	19	27	43	26	41	35	54	18	32	36	54	5	11
9	28	35	4	22	23	42	16	40	25	34	8	21	60	78	5	10
10	51	73	7	10	35	48	15	23	21	31	7	11	58	76	5	8
11	75	90	8	10	33	38	14	17	28	43	19	29	78	99	13	18
12	x	x	x	x	x	x	x	x	33	38	13	29	44	49	12	36
13	x	x	x	x	x	x	x	x	31	38	20	25	72	95	15	19
14	48	61	21	33	27	39	24	39	19	39	8	13	46	58	24	32
15	61	84	20	24	23	30	26	33	27	52	1	7	79	104	23	46
16	x	x	x	x	x	x	x	x	23	29	4	8	47	71	13	23
17	x	x	x	x	x	x	x	x	41	55	18	27	73	131	17	34
18	x	x	x	x	x	x	x	x	24	60	13	18	49	63	12	22
19	x	x	x	x	x	x	x	x	x	x	x	x	76	112	x	x
20	x	x	x	x	x	x	x	x	17	30	0	0	92	148	8	18
21	82	108	7	38	33	53	12	16	x	x	x	x	x	x	x	x
22	79	104	7	13	25	69	16	26	13	21	10	16	54	61	10	16
23	93	136	22	33	23	32	15	27	15	19	x	x	87	128	x	x
24	92	120	11	28	23	44	5	8	10	12	15	24	52	64	14	21
25	100	123	18	38	13	17	19	25	9	11	9	13	79	98	17	37
26	53	62	18	34	35	42	15	23	16	26	17	24	66	96	25	48
27	115	166	26	46	14	19	18	25	x	x	x	x	x	x	x	x
28	63	81	22	43	13	15	17	29	x	x	x	x	x	x	x	x
29	102	132	15	22	28	44	16	26	62	100	32	60	82	106	15	28
30	52	63	9	29	25	31	12	26	28	43	20	34	53	65	13	19

SOLAR FLARES

PRELIMINARY

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	OCT																		
MITK	01	0252E	0333		N27	W62	.883	8516	26.5	41D	-N		C	0255	.93	2.00		160	
MITK	01	0255	0322	0301	S17	W11	.440	8529	30.3	27	-N		C	0301	.72	.80		150	E
MANI	01	0301E	0305D		N30	W50	.791	8516	27.4	4D	-N	1		0304	1.03	1.66			
MITK	01	0439E	0458		S17	W12	.447	8529	30.3	19D	-N		C	0439	.83	.90		160	E
CAPS	01	0645	0651D		S16	W13	.440	8529	30.3	6D	-N	3		0649	.40	.40		160	E
ISTA	01	0720E	0735		S15	W15	.444	8529	30.2	15D	-F								
ISTA	01	0742	0800		S16	W14	.448	8529	30.3	18	1N								
CAPS	01	0747E	0801D		S16	W13	.440	8529	30.3	14D	-N	3		0749	.30	.30		175	
KAND	01	0750E	0800		S17	W14	.461	8529	30.3	10D	-N			0750		1.30			C
ATHN	01	0750E	0802	0750	S16	W15	.456	8529	30.2	12D	-B	2		0750	.79	.90	1.60		
ISTA	01	0810	0850		S15	W15	.444	8529	30.2	40	-F								
KAND	01	0821	0830		S16	W16	.465	8529	30.1	9	-N								C
ISTA	01	0845	0855		S16	W12	.433	8529	30.5	10	-N								
MONT	01	0958	1005D		S13	W43	.732	8522	28.2	7D	-N		C	1000		.72			
ATHN	01	1010	1021	1012	S16	W16	.465	8529	30.2	11	-N	2		1012	.17	.20	1.50		
ATHN	01	1133	1144	1135	S16	W19	.492	8529	30.1	11	-N	2		1135	.33	.40	1.60		
HUAN	01	1133	1144	1135	S17	W18	.495	8529	30.1	11	-F	2	C	1135	.25	.25			D
HUAN	01	1230	1236	1232	S17	W16	.477	8529	30.3	6	-F	2	C	1232	.25	.25			D
ATHN	01	1232E	1236	1232	S16	W17	.474	8529	30.2	4D	-N	2		1232	.17	.20	1.50		
MCMA	01	1325	1332	1327	S18	W20	.525	8529	30.1	7	-B		C	1327	.52	.60			D
HUAN	01	1325	1332	1326	S17	W19	.504	8529	30.1	7	-N	2	C	1326	.46	.48			D
CAPS	01	1327	1335D		S16	W18	.483	8529	30.2	8D	-B	3		1335	.50	.60		201	E
MCMA	01	1545	1553	1547	N22	W62	.879	8516	27.0	8	-N		C	1547	.41	.80			D
HUAN	01	1546	1551D		N22	W61	.872	8516	27.1	5D	-F	1	P	1550	.21				D
MCMA	01	1550	1643		S18	W20	.525	8529	30.2	53	-N			1557	.52	.60			
MCMA	01			1617									C	1617	.83	.90			EK
MCMA	01			1627															
LOCK	01	1600	1700	1620	S16	W20	.502	8529	30.2	60	-N		C	1620	.80	1.00		20	K
SACP	01	1602E	1633	1628	S17	W19	.504	8529	30.2	31D	1N		P		2.13	2.21			
HUAN	01	1626E	1632D		S17	W20	.513	8529	30.2	6D	-N	1	P	1627	.72	.75			E
MCMA	01	1646	1653	1648	S18	W20	.525	8529	30.2	7	-N		C	1648	.67	.80			E
HUAN	01	1647	1653	1650	S17	W21	.523	8529	30.1	6	-N	1	C	1650	.31	.32			D
LOCK	01	1641	1700	1646	N23	W70	.934	8516	26.4	19	1F		C	1646	1.00	2.30		10	L
LOCK	01	1735	1835	1800	N25	W71	.939	8516	26.4	60	1N		C	1800	1.00	2.40		20	L
SACP	01	1751	1830	1800	N24	W72	.945	8516	26.3	39	-F		C		.60	1.16			
MCMA	01	1754E	1817D		N24	W75	.959	8516	26.1	23D	-N		C	1758	.31	.90			D
HALE	01	1755E	1814D	1802	N24	W68	.922	8516	26.6	19D	-N	1	P	1802	.26				
HUAN	01	1804E	1807D		N24	W73	.950	8516	26.3	3D	-F	1	P	1807	.25				D
LOCK	01	1734	1815	1740	S16	W19	.492	8529	30.3	41	1B		C	1740	1.80	2.20		30	
SACP	01	1736	1750	1740	S17	W19	.504	8529	30.3	14	1N		C		3.40	3.53			
MCMA	01	1737	1742D	1738	S18	W20	.525	8529	30.2	5D	-B		C	1742	1.03	1.20			E
HUAN	01	1740E	1748D		S17	W20	.513	8529	30.2	8D	-B	1	P	1741	1.60	1.66			
HALE	01	1755E	1814D	1755U	S16	W22	.522	8529	30.1	19D	-N	1	P	1755	.26	.30			
LOCK	01	1851	1917	1858	S17	W22	.533	8529	30.1	26	-N		C	1858	.50	.60		20	
LOCK	01	2023	2052	2034	N23	W64	.895	8516	27.0	29	-N		C	2034	.90	1.80		10	
LOCK	01	2043	2108	2046	S16	W24	.543	8529	30.1	25	-B		C	2046	.90	1.10		30	J
HALE	01	2045	2052	2046	S15	W24	.533	8529	30.1	7	-B	1	C	2046	.52	.60			
SACP	01	2045	2052	2046	S17	W23	.543	8529	30.1	7	-N		C		1.28	1.34			
MCMA	01	2047E	2050		S18	W21	.534	8529	30.3	3D	-N		P	2047	.52	.60			D
SACP	01	2352	2354D	2354D	S16	W25	.553	8529	30.1	2D	-N		P		.86	.90			
HALE	01	2352	2400	2354	S14	W24	.524	8529	30.2	8	-N	1	C	2354	.31	.40			T
HALE	02	0014U	0017U	0017U	S22	E44	.786	8528	5.3	3U	-N	1	P	0017	.31	.50			TE
MANI	02	0105	0124	0110	S17	W49	.808	8522	28.4	19	-N	3		0110	.62	1.14			
ATHN	02	0559	0611	0600	S17	W24	.552	8529	30.4	12	-B	2		0600	1.71	2.00	1.90		
ATHN	02	0800	0815	0802	S18	W51	.829	8522	28.5	15	-N	2		0802	1.02	1.80	1.40		
ISTA	02	0900E	0945		N20	W90	.999	8516	25.6	45D	1N								
ISTA	02	0900E	0950		N29	W90	.998	8516	25.6	50D	1B								
ISTA	02	0900E	0955		N25	E90	.999	8530	9.1	55D	1N								
ATHN	02	1250E	1304	1250	S18	W32	.644	8529	30.1	14D	-N	2		1250	1.32	1.70	1.80		
HUAN	02	1251	1306	1253	S16	W32	.629	8529	30.1	15	-N	1	C	1253	.46	.52			E
SACP	02	1506	1641	1608	N24	E80	.979	8530	8.6	95	-F		C		.60	1.49			
SACP	02	1622	1633	1627	S18	W33	.654	8529	30.2	11	-F		C		.51	.57			
ARCE	03	0828E	0830D		N22	W85	.992	8522	27.0	2D	-N		P	0828	.48				
MCMA	03	1643	1705	1645	N19	E74	.955	8530	9.2	22	-N		C	1645	.26	.30			DH
MANI	03	2239	2257	2244	S16	W74	.973	8522	28.4	18	-F	2		2244	.46	1.10			
SACP	04	0005E	0021	0009	N24	E72	.945	8530	9.4	16D	-F		P		.52	.98			
MITK	04	0213	0218	0215	N21	E73	.950	8530	9.6	5	1N		C	0215	.72				
ATHN	04	0659E	0709	0700	S19	W77	.985	8522	28.5	10D	-N	2		0700	.33		1.80		
CAPS	04	1051	1103		N23	E70	.934	8530	9.7	12	1N	3		1055	1.00			166	
ATHN	05	0551	0559	0553	N26	E42	.701	8530	8.4	8	-N	2		0553	.50	.70	1.60		
ATHN	05	1115E	1125	1115	N20	E50	.769	8530	9.2	10D	-N	2		1115	.69	1.00	1.70		
ATHN	05	1241	1250	1243	N20	E49	.759	8530	9.2	9	-N	2		1243	.75	1.30	1.40		
MCMA	05	1243	1255	1245	N22	E54	.812	8530	9.6	12	-N		C	1245	.41	.70			E
HUAN	05	1951	2011D		N23	E40	.667	8530	8.8	20D	-F	1	P	2002	.72	.80			E
MITK	06	0209	0224	0220	N23	E35	.609	8530	8.7	15	1F		C	0220	2.99	3.80		120	

SOLAR FLARES

PRELIMINARY

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %	
	OCT																		
ATHN	06	1010E	1017	1011	N21	E33	.575	8530	8.9	7D	-N	2		1011	.33	1.30	.40		
ATHN	06	1040E	1046	1042	N21	E53	.801	8530	10.4	6D	-N	2		1042	.33	1.80	.50		
MONT	06	1040	1046		N15	E57	.834	8530	10.7	6	-B		C	1041		.70			
ATHN	06	1105E	1110	1106	N21	E32	.562	8530	8.9	5D	-N	2		1106	.33	.40	1.40		
SACP	06	1533	1749D	1603	N24	E36	.626	8530	9.3	136D	2N		P		4.93	5.43			
CAPS	06	1539E	1555D		N23	E40	.667	8530	9.7	16D	2N	1		1547	4.80	5.70		188	C
HUAN	06	1539	1623		N22	E36	.616	8530	9.4	44	1F	1	C	1600	2.11	2.28			E
MCMA	06	1539	1700	1548	N20	E35	.595	8530	9.3	81	1B		C	1548	2.58	3.20			F
SACP	06	1602	1750	1609	S22	W14	.524	8528	5.6	108	-F		C		1.19	1.23			
LOCK	06	1900	1955	1917	N22	E25	.480	8530	8.7	55	-F		C	1917	.40	.50		10	
LOCK	06	2010	2041	2017	N20	E32	.557	8530	9.2	31	-N		C	2017	.50	.60		10	
LOCK	06	2220	2245	2228	S24	W12	.539	8528	6.0	25	-F		C	2228	.50	.60		10	
ARCE	07	0915	0920	0917	S24	W21	.597	8528	5.8	5	-N		C	0917	.38	.50			HCD
ATHN	07	0915E	0925	0917	S26	W20	.613	8528	5.9	10D	-N	2		0917	.99	1.20	1.70		
MCMA	07	1253	1300	1254	S23	W18	.563	8528	6.2	7	-N		C	1254	.52	.60			E
LOCK	07	2007	2022	2013	N19	E16	.342	8530	9.0	15	-F		C	2013	.20	.21		10	
LOCK	07	2314	2324	2317	N21	E18	.386	8530	9.3	10	-F		C	2317	.40	.50		10	
HALE	08	0329	0339	0333	N19	E66	.908	8536	13.1	10	-N	1	C	0333	.21				
HALE	08	0328	0349	0329	N21	E13	.331	8530	9.1	21	-N	1	C	0329	.52	.53			V
HALE	08	0334	0348	0339	N25	E21	.460	8530	9.7	14	-N	2	C	0339	.10	.11			
HALE	08	0338	0343	0339	N25	E22	.471	8530	9.8	5	-N	2	C	0339	.10	.11			
HALE	08	0338	0354	0341	N22	E03	.274	8530	8.4	16	-N	3	C	0341	.26	.30			
MANI	08	0612E	0627D	0615	N21	E18	.387	8530	9.6	15D	-N	2		0615	.52	.56			
ATHN	08	0612E	0635D	0617	N23	E17	.396	8530	9.5	23D	1N	1		0617	2.64	2.80	1.70		
MANI	08	0905	0911	0907	N20	E11	.298	8530	9.2	6	-N	2		0907	.21	.22			
LOCK	08	1556	1615	1600	N20	E10	.288	8530	9.4	19	-F		C	1600	.50	.60		10	
HALE	08	1726	1828D	1730	N22	E07	.293	8530	9.3	62D	-B	2	P	1730	.83	.90			
HALE	08	1728	1743	1732	N26	E09	.366	8530	9.4	15	-N	2	C	1732	.21	.22			
HALE	08	1751	1800	1757	N20	E00	.236	8530	8.7	9	-N	1	C	1757	.15	.20			
HALE	08	1808	1812	1810	N23	E01	.287	8530	8.8	4	-F	3	C	1810	.10	.11			T
HALE	08	1822	1827	1823	N27	E09	.380	8530	9.4	5	-N	1	C	1823	.31	.32			
HALE	08	1959	2009	2004	N24	E00	.303	8530	8.8	10	-N	2	C	2004	.41	.43			T
HALE	08	2045	2113	2100	N24	E00	.303	8530	8.9	28	-N	2	C	2100	.26	.30			T
LOCK	08	2055	2111	2102	N13	E03	.127	8530	9.1	16	-F		C	2102	.20	.21		10	
HALE	08	2215	2241	2227	N24	E00	.303	8530	8.9	26	-N	1	C	2227	.21	.22			T
HALE	08	2254	2316D	2302	N24	E01	.304	8530	9.0	22D	-N	2	P	2302	.41	.42			T
SACP	08	2255	2309	2302	N23	E01	.287	8530	9.0	14	-F		C		.77	.75			
LOCK	08	2256	2319	2259	N12	E01	.100	8530	9.0	23	-N		C	2259	.60	.62		20	
LOCK	08	2258	2325	2308	N28	E13	.421	8530	9.9	27	-N		C	2308	1.40	1.50		20	
HALE	08	2302	2316D	2307	N28	E10	.401	8530	9.7	14D	-B	1	C	2307	1.03	1.00			F
MANI	08	2304	2317	2308	N24	E13	.368	8530	9.9	13	-F	2		2308	.77	.83			
HALE	09	0036	0058	0041	N23	W01	.288	8530	8.9	22	-N	1	C	0041	.21	.21			
HALE	09	0122	0140	0128	N24	W01	.305	8530	9.0	18	-N	1	C	0128	.26	.30			
MONT	09	0755	0830	0800	N20	E01	.238	8530	9.4	35	-F		C	0800		.60			
MANI	09	0759E	0812		N20	E01	.238	8530	9.4	13D	-N	3		0800	.52	.54			
ISTA	09	0913	0930		N21	W04	.262	8530	9.1	17	-N								
KAND	09	0915	1201		N19	W01	.221	8530	9.3	166	3N								C
MANI	09	0916E	0926D		N22	W04	.279	8530	9.1	10D	-N	1		0919	1.55	1.62			
ISTA	09	0935	0940		N23	W04	.295	8530	9.1	5	-F								
WEND	09	1045	1150	1102	N20	E02	.239	8530	9.6	65	3N				21.66				
CAPS	09	1046E	1145		N21	W01	.254	8530	9.4	59D	3N	3		1104	12.00	12.60		260	CFL
ARCE	09	1047E	1113D		N19	W05	.235	8530	9.1	26D	2B		P	1113	5.21	5.30			F
ARCE	09	1047E	1113D		N21	E04	.262	8530	9.7	26D	2N		P	1113	5.39	5.60			F
ATHN	09	1103E	1151D		N20	E04	.246	8530	9.8	48D	2N	1		1123	9.57	9.80	1.80		
SACP	09	1514	1619	1539	N20	W05	.251	8530	9.3	65	-N		C		1.70	1.67			
MCMA	09	1524	1543	1531	N19	W07	.249	8530	9.1	19	-N		C	1531	.46	.50			E
LOCK	09	1529E	1600	1530U	N18	W06	.227	8530	9.2	31D	-N		C	1530	1.40	1.44		20	
LOCK	09	1722	1733	1726	S25	W53	.868	8528	5.7	11	-F		C	1726	.50	1.00		10	J
LOCK	09	1804	1810	1807	S25	W54	.876	8528	5.7	6	-N		C	1807	.40	.70		10	J
LOCK	09	1807	1837	1819	N19	E04	.230	8530	10.1	30	-F		C	1819	.90	1.00		10	
LOCK	09	1847	1906	1857	S24	W56	.886	8528	5.6	19	-F		C	1857	.90	1.70		10	L
LOCK	09	1947	2015	1955	S30	W90	1.002	8527	3.1	28	-F		C	1955	1.00	1.90		10	
SACP	09	1950	2021	2000	S24	W56	.886	8528	5.6	31	1F		C		1.54	2.42			
LOCK	09	2050	2107	2055	S23	W58	.897	8528	5.5	17	-F		C	2055	.80	1.50		10	J
SACP	09	2103	2153	2128	S25	W57	.896	8528	5.6	50	1F		C		1.88	3.01			
LOCK	09	2109	2148	2130	S24	W57	.893	8528	5.6	39	1F		C	2130	1.50	3.00		10	J
LOCK	09	2157	2230	2207	N22	E12	.334	8530	10.8	33	-F		C	2207	.40	.42		10	J
SACP	09	2242	2318	2305	S24	W58	.900	8528	5.6	36	1N		C		1.95	3.20			
LOCK	09	2256	2320	2303	S24	W59	.906	8528	5.5	24	-N		C	2303	.90	1.90		10	J
MANI	09	2304	2317	2308	S23	W51	.846	8528	6.1	13	-N	3		2308	.41	.74			
MITK	10	0208	0228	0213	N21	W03	.260	8530	9.9	20	-N		C	0213	1.13	1.20		160	
MANI	10	0211E	0231		N20	W05	.252	8530	9.7	20D	-F	3		0212	.83	.86			
MITK	10	0226	0330	0243	N18	W03	.210	8530	9.9	64	-N		C	0243	.62	.60		140	
MITK	10	0349	0354D	0350	N23	W14	.367	8530	9.1	5D	-N		C	0350	1.75	1.90		150	
MANI	10	0351E	0400		N25	W12	.375	8530	9.3	9D	-B	2		0353	1.24	1.35			
KAND	10	0705E	0734D		N21	E68	.922	8544	15.4	29D	-N								PV

SOLAR FLARES

PRELIMINARY

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
ARCE	10	0835E	0845D		N19	W18	.369	8530	9.0	10D	-N		C	0835	.51	.50			E
MCMA	10	1335	1405	1342	N23	E63	.889	8544	15.3	30	-F		C	1342	.31	.60			E
SACP	10	1335	1407	1359	N23	E62	.882	8544	15.2	32	-F		C		.60	.91			
SACP	10	1848E	1914	1902	N23	E60	.866	8544	15.3	26D	-F		P		.68	1.00			
MCMA	10	2015E	2056D		S24	W60	.912	8528	6.3	41D	-N		C	2023	.31	.70			D
SACP	10	2121	2155	2129	N20	E84	.991	8546	17.2	34	-N		C		.34				
SACP	10	2206	2215	2210	N23	W26	.502	8530	9.0	9	-N		C		.51	.52			
MANI	10	2208E	2214		N22	W28	.519	8530	8.8	6D	-N	2		2210	.26	.30			
ATHN	11	0813E	0820	0814	S25	W70	.965	8528	6.1	7D	-N	2		0814	.76		2.00		
ATHN	11	1159	1206	1201	N22	W10	.318	8530	10.7	7	-F	2		1201	.83	.90	1.20		
MCMA	11	1255E	1314	1303	N23	E50	.776	8544	15.3	19D	-N		C	1303	.41	.60			E
HUAN	11	1847	1853		S02	E62	.887	8545	16.4	6	-F	1	C	1850	.25	.38			D
MCMA	11	1847	1854	1849	S02	E62	.887	8545	16.4	7	-B		C	1849	.26	.60			D
LOCK	11	1930	1948	1935	S23	W85	.999	8528	5.4	18	-N		C	1935	.40	1.60		10	
SACP	11	1931	1946	1940	S24	W80	.993	8528	5.8	15	-N		C		.94				
HUAN	11	1936	1946		N25	W88	.997		5.2	10	-N	1	C	1940	.31				D
ARCE	12	0838E	0848D		S21	W90	1.001	8528	5.6	10D	-N		C	0838	.15				
ARCE	12	0903E	0940D	0925	N25	E85	.992	8549	18.8	37D	-N		C	0925	.15				D
ARCE	12	0907E	0925D	0920	N21	E75	.960	8546	18.0	18D	-N		C	0920	.41	1.10			
ARCE	12	0953E	0953D		N25	E90	.999	8549	19.2		1N		P	0953	.38				
ATHN	12	1031	1038	1032	N20	E70	.935	8546	17.7	7	-N	2		1032	.33				
ATHN	12	1132	1153	1141	N20	E69	.929	8546	17.7	21	1N	2		1141	.99				
KAND	12	1145E	1146D		N17	E70	.934	8546	17.7	1D	2N			1145		5.80			
CAPS	12	1145E	1156D		N22	E70	.935	8546	17.7	11D	1F	1		1148	1.80			155	
MCMA	12	1336	1358		N22	E69	.929	8546	17.7	22	-N		C	1348	.26	.60			E
MCMA	12	1406	1430	1410	N22	E70	.935	8546	17.8	24	-N		C	1410	.31	.50			D
MCMA	12	1440	1450	1443	N22	E70	.935	8546	17.9	10	-N		C	1443	.31	.50			D
ATHN	12	1441	1453	1442	N20	E68	.922	8546	17.7	12	-N	2		1442	.76		1.60		
HUAN	12	1442	1448		N21	E68	.923	8546	17.7	6	-F	1	C	1445	.25				D
ATHN	12	1505	1515	1508	N20	E68	.922	8546	17.7	10	-N	1		1508	.76		1.80		
HUAN	12	1507	1513D		N21	E68	.923	8546	17.7	6D	-F	1	P	1509	.31				D
MCMA	12	1521	1530	1523	N22	E70	.935	8546	17.9	9	-N		C	1523	.83	.90			E
MCMA	12	1653	1700D	1657	N22	E69	.929	8546	17.9	7D	-N		C	1657	.26	.60			D
MCMA	12	1805	1832	1817	N22	E69	.929	8546	17.9	27	-N		C	1817	.77	1.80			E
SACP	12	1905	1919	1908	N10	E53	.794	8545	16.8	14	-N		C		1.35	1.75			
MCMA	12	1906	1915	1908	N08	E54	.805	8545	16.8	9	-N		C	1908	.52	.90			E
MCMA	12	1915	1932	1918	N22	E68	.923	8546	17.9	17	-N		C	1918	.41	1.00			E
MCMA	12	1943	1950D		N22	E68	.923	8546	17.9	7D	-N		C	1945	.41	1.00			E
MCMA	12	2051	2055D		N21	E65	.903	8546	17.7	4D	-F		P	2053	.31	.70			E
SACP	12	2052	2109	2055	N21	E57	.839	8546	17.1	17	-N		C		1.27	1.78			
MITK	13	0430	0448D	0432	N21	E66	.910	8546	18.1	18D	2N		C	0432	2.37			230	
MANI	13	0607	0616D	0610	N13	E56	.825	8546	17.5	9D	-N	2		0610	.21	.35			
MITK	13	0621	0634	0626	N08	E47	.727	8545	16.8	13	-N		C	0626	.62	.90		140	E
MANI	13	0625E	0635	0626	N10	E47	.727	8545	16.8	10D	-N	2		0626	.26	.38			
ATHN	13	0705E	0710	0706	N08	E47	.727	8545	16.8	5D	-N	1		0706	.33	.50	1.50		
ISTA	13	0710E	0835		N20	E62	.880	8546	17.9	85D	-N								
KAND	13	0721	0743		N20	E60	.864	8546	17.8	22	-N								C
MANI	13	0838E	0854D	0842	N25	W50	.782	8530	9.6	16D	-F	2		0842	.88	.96			
ATHN	13	0901	0925	0908	N18	E56	.828	8546	17.6	24	1N	2		0908	1.65	3.10	1.90		
CAPS	13	0903E	0922D		N20	E53	.801	8546	17.4	19D	-F	3		0914	.90	1.50		150	
ARCE	13	0907E	0921D		N20	E54	.811	8546	17.4	14D	-N		C	0920	.35	.60			
ISTA	13	0910	0925		N21	E58	.848	8546	17.7	15	-N								
MANI	13	0915E	0925D	0920	N20	E62	.880	8546	18.0	10D	1F	1		0920	2.27	4.27			
ATHN	13	1005	1020	1007	N11	E57	.834	8546	17.7	15	-N	2		1007	.43	.80	1.50		
CAPS	13	1047E	1053		N20	E58	.847	8546	17.8	6D	-N	3		1050	.40	.70		166	C
ATHN	13	1048	1056	1051	N20	E60	.864	8546	18.0	8	-N	2		1051	.72	1.60	1.90		
CAPS	13	1149E	1202D		N19	E52	.790	8546	17.4	13D	-N	3		1152	.80	1.30		160	
ATHN	13	1150	1158	1151	N20	E59	.856	8546	17.9	8	-N	2		1151	.39	.80	1.60		
SACP	13	1330	1402	1340	N09	E42	.666	8545	16.7	32	-N		C		1.11	1.26			
SACP	13	1330	1410	1341	N22	E58	.849	8546	17.9	40	1N		C		1.64	2.34			
ATHN	13	1335	1353	1338	N20	E58	.847	8546	17.9	18	-N	2		1338	.86	1.80	1.90		
MONT	13	1335	1410	1337	N23	E52	.797	8546	17.5	35	1N		C	1337		2.50			
CAPS	13	1342E	1354		N21	E60	.865	8546	18.1	12D	1B	3		1347	2.00	3.80		204	C
SACP	13	1546	1618	1558	N08	E43	.678	8545	16.9	32	-F		C		.84	.96			
LOCK	13	1640	1740	1708	N17	E53	.798	8546	17.7	60	-N		C	1708	1.00	1.70		20	
SACP	13	1649	1800	1710	N20	E51	.781	8546	17.5	71	1N		C		2.03	2.60			
LOCK	13	1740	1752	1744	N19	E48	.748	8546	17.3	12	1N		C	1744	1.50	2.30		20	
SACP	13	1740	1756E	1748U	N22	E46	.733	8546	17.2	16D	-F		P		.93	1.11			
LOCK	13	1814	1827	1817	N18	E57	.837	8546	18.0	13	-N		C	1817	.50	.90		10	
SACP	13	1815	1840	1820	N25	E50	.782	8546	17.5	25	-N		C		.42	.53			
HALE	13	1821E	1905U	1905U	N21	E50	.773	8546	17.5	44U	-B	2	P	1905	.31	.50			
LOCK	13	1912	1925	1915	N21	E64	.896	8546	18.6	13	-F		C	1915	.60	1.30		10	
SACP	13	2013	2043	2024	N10	E40	.640	8545	16.8	30	-F		C		1.01	1.13			
LOCK	13	2015	2030	2020	N06	E40	.640	8545	16.8	15	-N		C	2020	.90	1.20		10	
LOCK	13	2116	2135	2122	N21	W70	.935	8530	8.6	19	-F		C	2122	.50	.70		10	
HALE	14	0027E	0107	0036	N23	E52	.797	8546	17.9	40D	-B	2	P	0036	.52	.90			

SOLAR FLARES

PRELIMINARY

OCTOBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
					APPROX.		CENTRAL	MCMATH PLAGE	CMP					TIME —	MEAS. AREA	CORR. AREA	MAX. WIDTH	MAX. INT.	
	DATE 1966	START	END	MAX. PHASE	LAT.	MER. DIST.	DISTANCE	REGION	DAY			COND.	TYPE	UT	Sq. Deg.	Sq. Deg.	Hα	%	
	OCT																		
MANI	14	0034	0045	0040	N20	E51	.782	8546	17.8	11	-N	2		0040	.83	1.35			
HALE	14	0151	0206	0201	N21	W71	.941	8530	8.8	15	-N	1	C	0201	.26				
HALE	14	0154	0224	0201	N21	E48	.753	8546	17.7	30	-N	2	C	0201	.10	.20			
HALE	14	0244	0257U	0257U	N22	E42	.690	8546	17.3	13U	-N	2	P	0257	.31	.40			
ATHN	14	0524E	0544	0525	N18	E47	.736	8546	17.8	20D	-B	2		0525	.33	.70	2.00		
MANI	14	0525E	0541D	0532	N21	E51	.783	8546	18.1	16D	-B	2		0532	1.24	1.97			
ARCE	14	0820E	0845D		N21	E49	.763	8546	18.0	25D	-B		C	0840	.69	1.10			
ATHN	14	0835	0846	0837	N24	E52	.799	8546	18.3	11	-B	2		0837	.66	1.10	2.00		
MONT	14	0838	0848	0840	N21	E50	.773	8546	18.1	10	-N		C	0840		.80			
CAPS	14	0839E	0845		N23	E55	.825	8546	18.5	6D	-B	3		0841	.40	.70		200	C
CAPS	14	1151	1206		N10	E31	.514	8545	16.8	15	-N	3		1156	1.20	1.40		182	G
ATHN	14	1151	1207	1153	N06	E31	.512	8545	16.8	16	-B	2		1153	1.16	1.30	2.00		
CAPS	14	1250	1358		N23	E40	.671	8546	17.5	68	2B	3		1317	5.40	7.60		288	I
WEND	14	1250	1358		N22	E42	.690	8546	17.7	68	2N				8.25				
ATHN	14	1300E	1339	1309	N23	E47	.747	8546	18.1	39D	1N	2		1309	2.44	3.70	2.00		
MCMA	14	1302E	1343D		N21	E41	.675	8546	17.6	41D	2B		P	1322	3.61	5.10			F
SACP	14	1319E	1455	1346U	N20	E39	.648	8546	17.5	96D	1N		P		4.36	4.91			
MONT	14	1346E	1415D		N20	E42	.683	8546	17.7	29D	2B		C	1346		4.30			
LOCK	14	1525	1529	1527	N19	E44	.704	8546	17.9	4	-F		C	1527	.50	.70		10	
LOCK	14	1812	1827	1815	N19	E41	.669	8546	17.8	15	-F		C	1815	.50	.70		10	
LOCK	14	1928	1950	1933	N13	E61	.870	8548	19.4	22	-N		C	1933	.70	1.30		10	
SACP	14	1929	1954	1937	N16	E60	.862	8548	19.3	25	-F		C		.42	.61			
LOCK	14	2250	2317	2302	N07	E25	.420	8545	16.8	27	-N		C	2302	1.40	1.50		20	
SACP	14	2301E	2315	2301	N10	E26	.439	8545	16.9	14D	-N		P		1.43	1.45			
HALE	14	2324E	2339D	2330	N18	E31	.538	8546	17.3	15D	-N	1	P	2330	.10	.11			
HALE	14	2326E	2338	2331	N24	W75	.961	8530	9.4	12D	-N	1	P	2331	.15				
SACP	14	2342	2355D	2355	N20	E34	.586	8546	17.5	13D	-F		P		.94	1.01			
LOCK	14	2350	0035U	0015	N18	E34	.578	8546	17.5	45U	1B		C	0015	1.80	2.20		30	
MANI	15	0005	0053	0018	N21	E35	.603	8546	17.6	48	-N	1		0018	1.44	1.83			
MANI	15	0412	0448D	0418	N21	E37	.628	8546	18.0	36D	1N	2		0418	2.48	2.76			
ATHN	15	0522E	0555	0528	N20	E40	.660	8546	18.2	33D	1N	2		0528	2.15	2.60	1.70		
ATHN	15	1346	1352	1348	N20	E35	.599	8546	18.2	6	-N	2		1348	.50	.60	1.60		
LOCK	15	1850	2005	1920	N22	E25	.485	8546	17.7	75	1B		C	1920	2.50	2.80		30	
SACP	15	1852	2100	1930	N20	E23	.445	8546	17.5	128	2F		C		5.14	5.22			
HUAN	15	1909	1957D		N20	E25	.471	8546	17.7	48D	1F	1	P	1925	2.11	2.15			E
MCMA	15	1937E	1947D		N21	E26	.490	8546	17.8	10D	1B		P	1942	1.86	2.10			BF
LOCK	15	2236	2310	2240	N18	E23	.431	8546	17.7	34	-N		C	2240	.70	.80		20	
LOCK	15	2335	2350	2338	N18	E23	.431	8546	17.7	15	-N		C	2338	.70	.80		20	
MANI	15	2336	2346	2338	N20	E20	.407	8546	17.5	10	-N	2		2338	.46	.51			
ATHN	16	0723	0736	0725	N20	E18	.383	8546	17.7	13	-N	2		0725	.99	1.10	1.80		
ATHN	16	0806	0822	0809	N20	E18	.383	8546	17.7	16	-N	2		0809	.99	1.10	1.60		
CAPS	16	0810E	0820D		N21	E22	.441	8546	18.0	10D	-F	2		0819	1.20	1.30			
ATHN	16	1021	1024D	1022	N20	E17	.371	8546	17.7	3D	-N	2		1022	.33	.40	1.60		
ATHN	16	1108	1112D	1111	N20	E17	.371	8546	17.7	4D	-N	2		1111	.83	.90	1.60		
ATHN	16	1204	1251	1222	N19	E17	.361	8546	17.8	47	1N	2		1222	2.64	2.80	1.90		
CAPS	16	1211E	1227D		N19	E14	.325	8546	17.6	16D	1N	1							
HUAN	16	1224E	1239D		N22	E19	.414	8546	17.9	15D	-N	1	P	1224	1.24	1.25			E
LOCK	16	1537	1548	1542	N22	E15	.370	8546	17.8	11	-F		C	1542	.50	.60		10	
LOCK	16	1609	1635	1613	N25	E15	.406	8546	17.8	26	-N		C	1613	1.50	1.60		10	
LOCK	16	1640	1644	1642	N22	E17	.392	8546	18.0	4	-N		C	1642	.20	.22		10	
LOCK	16	1650	1730	1700	N21	E14	.348	8546	17.8	40	-N		C	1700	1.00	1.10		10	
SACP	16	1751	1811	1804	N27	E82	.986	8553	22.9	20	-F		C		.59				
LOCK	16	1815	1845	1820	N21	E12	.328	8546	17.7	30	-N		C	1820	.90	1.00		20	
LOCK	16	1901	1920	1908	N21	E11	.318	8546	17.6	19	-N		C	1908	1.00	1.10		20	H
SACP	16	1906	1918	1909	N21	E09	.301	8546	17.5	12	-N		C		.92	.91			
LOCK	16	2045	2110	2055	N21	E11	.318	8546	17.7	25	1B		C	2055	1.50	2.30		30	H
LOCK	16	2152	2218	2203	N20	E09	.287	8546	17.6	26	-N		C	2203	1.00	1.04		20	
LOCK	16	2223	2250	2228	N21	E14	.348	8546	18.0	27	-N		C	2228	1.20	1.30		20	
LOCK	16	2253	2338	2257	N22	E12	.341	8546	17.9	45	-B		C						K
LOCK	16			2315										2315	1.50	1.70		30	K
SACP	16	2312	2325	2320	N21	E07	.286	8546	17.5	13	-N		C		1.01	.99			
ATHN	17	1010E	1101	1024	N21	E07	.242	8546	17.9	51D	1B	2		1024	3.63	3.80	2.00		
CAPS	17	1041E	1056D		N20	E10	.256	8546	18.2	15D	-N	1		1045	1.00	1.00		160	
MCMA	17	1537E			N20	E85	.991	8553	24.0		-N		P	1537	.26				D
LOCK	17	2025	2110	2035	N21	W05	.228	8546	17.5	45	-F		C	2035	.80	.83		10	
SACP	17	2030	2059	2039	N21	W04	.222	8546	17.6	29	-F		C		1.01	.99			
HUAN	17	2037E	2050D		N20	W02	.198	8546	17.7	13D	-F	1	P	2048	.25	.25			D
SACP	17	2039	2130	2050	N14	E04	.114	8546	18.2	51	-N		C		.51	.49			
LOCK	17	2045	2115	2048	N14	E04	.114	8546	18.2	30	-N		C	2048	.60	.63		20	
HUAN	17	2047	2050D		N14	E04	.114	8546	18.2	3D	-F	1	P	2048	.31	.31			D
LOCK	17	2150	2235	2210	N21	W04	.222	8546	17.6	45	-F		C	2210	.90	.93		10	
HUAN	17	2153E	2209D		N22	E00	.229	8546	17.9	16D	-F	1	P	2200	.46	.47			E
LOCK	17	2255	2330	2310	N21	W04	.222	8546	17.7	35	-F		C	2310	.90	.93		10	
SACP	17	2333	2356E	2345	N14	E02	.098	8546	18.1	23D	-N		P		1.20	1.17			
LOCK	17	2339	2400	2343	N14	E02	.098	8546	18.1	21	-N		C	2343	1.80	1.85		20	
LOCK	17	2340	0025U	2400	N21	W04	.222	8546	17.7	45U	-F		C	2400	.60	.63		10	
MITK	17	2340E	2400		N15	E02	.114	8546	18.1	20D	-N		C	2345	1.75	1.70		170	G

SOLAR FLARES

PRELIMINARY

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
SACP	18	0000D	0021E	0004U	N14	E02	.149	8546	18.1	21D	-F		P		1.21	1.18			
MANI	18	0010	0018	0013	N17	W10	.258	8546	17.3	8	-N	3		0013	.25	.26			
MITK	18	0526	0553	0529	N14	W03	.154	8546	18.0	27	-F		C	0529	1.13	1.10		130	E
ISTA	18	0805	0820		N21	W10	.311	8546	17.6	15	-N								
LOCK	18	1705	1720D	1720U	N24	W11	.361	8546	17.9	15D	-F		C	1720	.90	1.00		10	
SACP	18	1937	1950	1942	N20	E57	.840	8553	23.1	13	-N		C		.67	.95			
ATHN	19	1130	1141	1134	N22	W25	.488	8546	17.6	11	-N	2		1134	.99	1.10	1.40		
SACP	19	1506	1526E	1510	N14	W24	.424	8546	17.8	20D	-N		P		.51	.50			
SACP	19	1646	1652	1649	N14	W25	.438	8546	17.8	6	-F		C		.34	.34			
SACP	19	1702	1728	1712	N13	W26	.449	8546	17.8	26	-F		C		.75	.76			
HALE	19	1705	1716	1707	N13	W26	.449	8546	17.8	11	-N	1	C	1707	.21	.22			
HUAN	19	1705	1722		N14	W26	.453	8546	17.8	17	-F	1	C	1708	.21	.21			D
HALE	19	1720	1723D	1721	N13	W25	.434	8546	17.8	3D	-N	2	P	1721	.62	.70			
LOCK	19	1930	2001	1946	N14	W77	.971	8539	14.0	31	-F		C	1946	.40	1.10		10	
LOCK	19	2004	2020	2009	N18	W85	.994	8539	13.5	16	-N		C	2009	.40	1.40		10	
SACP	19	2021	2030	2027	N07	W40	.640	8545	16.8	9	-N		C		.34	.37			
HALE	19	2026	2031	2028	N07	W42	.666	8545	16.7	5	-N	1	C	2028	.26	.30			
SACP	19	2110	2140	2120	N28	E85	.993	8555	26.3	30	-N		C		.26				
HALE	19	2112	2139	2128	N29	E82	.986	8555	26.0	27	-N	1	C	2128	.21				
LOCK	19	2118	2135	2122	N26	E90	.999	8555	26.6	17	-F		C	2122	.30	1.20		10	
LOCK	19	2155	2225	2205	N19	W90	.999	8539	13.2	30	-F		C	2205	.20	.80		10	
HALE	19	2340U	2356D	2349U	N29	E82	.986	8555	26.1	16D	-N	1	P	2349	.31				
SACP	20	0000E	0023D	0012U	N27	E80	.980	8555	26.0	23D	-F		P		1.14	2.87			
HALE	20	0020	0042	0022	N13	E75	.962	8556	25.6	22	-N	2	C	0022	.15				
HALE	20	0113	0223	0143U	N24	E48	.762	8553	23.7	70	1N	2	C	0143	2.27	3.60			
MITK	20	0110	0129		N12	E76	.967	8556	25.7	19	-N		V						
HALE	20	0122	0129	0125	N13	E75	.962	8556	25.7	7	-F	2	C	0125	.15				
MITK	20	0528E	0538		S19	E76	.981	8554	25.9	10D	1N		V						
ATHN	20	0626E	0626D		N22	W31	.562	8546	17.9		1N	2			2.31	2.40	1.60		
KAND	20	0945E	1035		N08	E72	.948	8556	25.8	50D	-N								V
KAND	20	1014	1029		N15	W33	.556	8546	18.0	15	-N								V
CAPS	20	1153E	1159		N11	E71	.942	8556	25.8	6D	-N	1		1155	.30				
MCMA	20	1248E	1335		N21	E43	.700	8553	23.8	47D	-N		P	1257	.93	1.30			EL
SALO	20	1450	1520	1500	N07	W37	.599	8545	17.8	30	-								
SALO	20	1500	1520	1520	N08	E63	.887	8556	25.4	20	-								
MCMA	20	1612	1625	1614	N22	W30	.550	8546	18.4	13	-N		C	1614	.46	.60			D
SACP	20	1612	1625	1614	N21	W47	.744	8546	17.1	13	1N		C		1.86	2.25			
MCMA	20	1655	1720		N16	W35	.586	8546	18.1	25	-N		C	1700	.52	.60			H
HALE	20	1658	1712	1659	N12	E62	.879	8556	25.4	14	-N	2	C	1659	.21	.40			
MCMA	20	1705	1710	1706	N13	E65	.902	8556	25.6	5	-N		C	1706	.21	.50			D
SACP	20	1710	1720	1716	N15	E64	.895	8556	25.5	10	-N		P		1.18	1.88			
HALE	20	1713	1731	1717	N14	E66	.909	8556	25.7	18	-B	2	C	1717	.41				
MCMA	20	1714	1727	1716	N14	E67	.916	8556	25.7	13	-N		C	1716	.52	1.20			E
HALE	20	1720	1727	1723	N15	W39	.636	8546	17.8	7	-N	2	C	1723	.21	.30			
HALE	20	1737	1747D	1744U	N12	E66	.909	8556	25.7	10D	-N	2	P	1744	.52				E
MCMA	20	1738	1810	1743	N13	E67	.916	8556	25.8	32	-N		C	1743	.41	1.00			E
HALE	20	1735	1747	1746U	N23	W31	.568	8546	18.4	12	-B	2	P	1746	1.13	1.40			E
MCMA	20	1737	1805	1742	N22	W30	.550	8546	18.5	28	-F		C	1742	.72	.90			E
MCMA	20	1747	1752	1748	N14	W36	.594	8546	18.0	5	-N		C	1750	.31	.32			D
LOCK	20	1900	1915	1904	N21	W50	.775	8546	17.0	15	-N		C	1904	.50	.80		20	
MCMA	20	1903	1912	1905	N18	W38	.631	8546	17.9	9	-N		C	1905	.52	.70			DV
SACP	20	1903E	1912	1904	N20	W48	.752	8546	17.2	9D	1B		C		1.86	2.30			
LOCK	20	2020	2035	2024	N22	W39	.658	8546	17.9	15	-F		C	2024	.40	.50		10	
MCMA	20	2037E	2046D		N13	E65	.902	8556	25.7	9D	-B		P	2037	.41	1.00			E
LOCK	20	2037	2055	2042	N12	E63	.887	8556	25.6	18	1N		C	2042	1.00	2.10		20	
SACP	20	2153	2204	2156	N20	W50	.773	8546	17.2	11	1B		C		2.29	2.90			
HALE	20	2153	2210	2157	N21	W51	.785	8546	17.1	17	-B	1	C	2157	1.13	1.80			
LOCK	20	2305	2320U	2310	N23	W43	.707	8546	17.7	15U	-F		C	2310	.60	.80		10	
HALE	21	0002	0033	0004	N15	E62	.880	8556	25.7	31	-N	1	C	0004	.21	.40			T
HALE	21	0018	0053	0024	N11	E63	.887	8556	25.7	35	-N	1	C	0024	.15	.30			T
HALE	21	0102	0139	0133	N12	E59	.853	8556	25.5	37	-F	1	C	0133	.15	.30			T
HALE	21	0227	0348D	0303	N13	E56	.826	8556	25.3	81D	-F	1	P	0303	.15	.30			T
HALE	21	0312	0348D	0335	N11	E58	.844	8556	25.5	36D	-N	1	P	0335	.31	.60			T
HALE	21	0345	0348D	0346U	N22	W52	.797	8546	17.3	3D	-B	1	P	0346	.83	1.40			
MANI	21	0346E	0355	0348	N20	W52	.794	8546	17.3	9D	-N	2		0348	.41	.66			
MANI	21	0452E	0458D		N14	W44	.696	8546	17.9	6D	-F	2		0453	.31	.43			
ISTA	21	0705E	0905D		N22	E60	.868	8555	25.8	120D	1F								
ISTA	21	0705E	0850		N15	W47	.733	8546	17.8	105D	1F								
KAND	21	0840E	1015		N16	W49	.757	8546	17.7	95D	1N			0920		2.30			C
ARCE	21	0910E	1000D	0920	N13	W49	.753	8546	17.7	50D	-N		C	0920	1.02	1.60			H
CAPS	21	0917E	0927D		N13	W47	.731	8546	17.9	10D	-F	1		0918	.30	.40		157	C
SALO	21	0930	1010	0940	N07	W48	.740	8546	17.8	40	-								
ATHN	21	0937E	0955	0940	N14	W48	.743	8546	17.8	18D	-N	2		0940	.66	.90	1.80		
ATHN	21	1502E	1508	1502	S16	E48	.789	8554	25.2	6D	-N	1		1502	.66	1.10	1.70		
LOCK	21	1614	1645	1621	N17	W56	.829	8546	17.5	31	-F		C	1621	1.00	1.70		10	
HALE	21	1630E	1706	1641	N20	W51	.784	8546	17.9	36D	-N	3	P	1641	.21	.30			
LOCK	21	1655	1725	1705	N24	W52	.801	8546	17.8	30	-F		C	1705	.40	.70		10	

SOLAR FLARES

PRELIMINARY

OCTOBER 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
HALE	21	1719	1737	1725	N12	E48	.741	8556	25.3	18	-N	3	C	1725	.10	.20			
HALE	21	1719	1800	1732	N24	E32	.587	8553	24.1	41	-N	2	C	1732	.21	.30			
HALE	21	1821	1837	1822	N10	W55	.816	8545	17.6	16	-F	1	C	1822	.62	1.10			
HALE	21	1823	1848	1840	N22	E26	.502	8553	23.7	25	-F	2	C	1840	.21	.22			E
LOCK	21	1825	1855	1838	N21	E25	.482	8553	23.6	30	-F		C	1838	.60	.70		10	
LOCK	21	1913	1945	1922	N23	E29	.545	8553	24.0	32	-N		C	1922	.60	.70		20	
SACP	21	1913	1947	1918	N24	E28	.540	8553	23.9	34	-F		C		.68	.71			
HALE	21	1913	2006	1919	N24	E26	.517	8553	23.8	53	-N	2	C	1919	.26	.30			
HALE	21	2108	2134	2112	N13	E46	.719	8556	25.3	26	-N	2	C	2112	.26	.40			
SACP	21	2110	2130	2115	N13	E47	.731	8556	25.4	20	-F		C		.85	1.01			
LOCK	21	2110	2135	2115	N05	E46	.717	8556	25.3	25	-F		C	2115	.80	1.20		10	
MITK	21	2355	0015	2358	N13	E46	.719	8556	25.4	20	1N		C	2358	1.86	2.30		170	
LOCK	21	2356	0013	2359	N05	E45	.705	8556	25.4	17	-B		C	2359	.60	.90		30	
HALE	22	0000E	0007		N14	E45	.709	8556	25.4	7D	-B	2	P	0000	.41	.60			
LOCK	22	0015	0025	0018	N28	E13	.435	8558	23.0	10	-N		C	0018	.40	.42		20	
HALE	22	0017	0028	0017	N28	E10	.416	8558	22.8	11	-F	2	C	0017	.15	.20			
MITK	22	0127	0135	0129	N27	E12	.415	8558	23.0	8	-N		C	0129	1.34	1.50		140	G
HALE	22	0128	0133	0129	N28	E10	.416	8558	22.8	5	-N	2	C	0129	.62	.70			
HALE	22	0140	0200	0143	N27	E54	.826	8555	26.1	20	-N	2	C	0143	.41	.80			
MITK	22	0143	0209	0151	N28	E58	.860	8555	26.4	26	1F		C	0151	1.55	3.00		130	
HALE	22	0339	0348D	0339	N13	W59	.854	8546	17.7	9D	-F	3	C	0339	.21	.40			
ATHN	22	0750	0758	0753	N23	W57	.845	8546	18.1	8	-N	2		0753	.50	.90	1.80		
ATHN	22	0913	0929	0915	N13	E41	.658	8556	25.5	16	-N	1		0915	.50	.70	1.80		
ATHN	22	0916	0920	0917	N21	E16	.375	8553	23.6	4	-N	1		0917	1.32	1.40	1.60		
MONT	22	1205	1232	1207	N23	E17	.408	8553	23.8	27	-F		C	1207		1.10			
HUAN	22	1245	1249D		N08	W77	.972	8545	16.8	4D	-N	1	P	1248	.41				
ATHN	22	1249	1258	1250	N06	W72	.949	8545	17.1	9	-N	1		1250	.66	1.70	1.50		
MCMA	22	1450	1457	1452	N14	W66	.910	8546	17.7	7	-N		C	1452	.72	1.00			D
CAPS	22	1454	1502		N15	W65	.903	8546	17.7	8	-F	3		1455	.20			150	D
SACP	22	1610	1644	1631U	N14	W65	.902	8546	17.8	34	-F		C		1.10	1.80			
HUAN	22	1611	1626	1614	N13	W67	.917	8546	17.6	15	-F	1	C	1614	.52	.90			E
LOCK	22	1615	1626	1620	N24	W67	.919	8546	17.7	11	-N		C	1620	.90	2.00		20	
LOCK	22	1740	1746	1742	N15	W68	.923	8546	17.6	6	-N		C	1742	.40	.90		10	
LOCK	22	1812	1822	1815	N24	E35	.622	8555	25.4	10	-N		C	1815	.30	.40		10	
SACP	22	1812	1827	1817	N15	E35	.584	8556	25.4	15	-N		C		.42	.45			
LOCK	22	1910	1926	1914	N15	W68	.923	8546	17.7	16	-N		C	1914	.90	1.90		20	
HALE	22	1910	1930	1914	N14	W71	.942	8546	17.5	20	-N	1	C	1914	.41				
SACP	22	1910U	1949U	1920	N14	W66	.910	8546	17.8	39U	1F		C		1.34	2.27			
HUAN	22	1911E	1919D		N14	W66	.910	8546	17.8	8D	1F	1	P	1912	1.08	1.90			E
SACP	22	2003	2030	2008	N15	E34	.570	8556	25.4	27	-B		C		.67	.72			
HALE	22	2005	2020	2006	N14	E34	.567	8556	25.4	15	-N	1	C	2006	.21	.30			
LOCK	22	2005	2023	2009	N13	E35	.579	8556	25.5	18	-N		C	2009	.80	1.00		20	
LOCK	22	2102	2110	2105	N14	W67	.917	8546	17.9	8	-F		C	2105	.40	.80		10	
HALE	22	2103	2110	2104	N14	W71	.942	8546	17.6	7	-F	1	C	2104	.41				
HALE	22	2146	2147	2146	S13	E26	.525	8554	24.9	1	-F	1	C	2146	.10	.11			
LOCK	22	2146	2157	2149	N13	E35	.579	8556	25.5	11	-F		C	2149	.30	.40		10	
HALE	22	2150	2155	2151	N16	E32	.547	8556	25.3	5	-F	1	C	2151	.15	.20			
SACP	22	2212U	2240	2219	N15	E32	.543	8556	25.3	28U	-B		P		1.68	1.77			
LOCK	22	2213	2240	2220	N14	E35	.581	8556	25.6	27	-N		C	2220	1.70	2.00		20	
SACP	22	2310	2329	2317	N15	E32	.543	8556	25.4	19	-N		C		.51	.53			
LOCK	22	2312	2330	2316	N14	E35	.581	8556	25.6	18	-N		C	2316	.40	.90		10	
SACP	22	2329	2349	2338	N28	E45	.747	8555	26.4	20	-N		C		.42	.51			
LOCK	22	2330	2352		N27	E45	.743	8555	26.4	22	-N		C		.90	1.40		20	
LOCK	22	2359	0020U	0002	N14	E33	.554	8556	25.5	21U	-B		C	0002	.80	1.00		30	
SACP	23	0000	0020D	0005	N14	E31	.526	8556	25.3	20D	-N		C		1.23	1.28			
MITK	23	0208	0227	0215	N13	E32	.537	8556	25.5	19	-N		C	0215	1.24	1.60		160	
HALE	23	0208	0228	0216	N14	E31	.526	8556	25.4	20	-B	1	C	0216	.72	.90			
HALE	23	0208	0235	0209	N14	W71	.942	8546	17.8	27	-N	1	C	0209	.21				
HALE	23	0234	0255	0237	N15	E27	.474	8556	25.1	21	-B	2	C	0237	1.44	1.70			
MITK	23	0235	0254	0238	N14	E31	.526	8556	25.4	19	1B		C	0238	2.37	2.80		210	
HALE	23	0246	0256	0248	N13	W73	.953	8546	17.6	10	-N	1	C	0248	.21				
MITK	23	0320	0353	0336	N24	W68	.926	8546	18.0	33	1N		C	0336	1.03			140	E
HALE	23	0323	0326D	0324	N24	W70	.937	8546	17.9	3D	-N	1	P	0324	.41				
MITK	23	0325	0340	0328	N14	E30	.512	8556	25.4	15	1N		C	0328	1.96	2.30		160	
HALE	23	0326	0326D	0326D	N15	E28	.488	8556	25.2		-N	1	P	0326	.41	.50			
ATHN	23	0628	0638	0632	N15	W70	.936	8546	18.0	10	-B	2		0632	.50		2.00		
MANI	23	0630	0635	0631	N15	W70	.936	8546	18.0	5	-N	2		0631	.77	1.66			
ATHN	23	0718	0725	0720	N13	E30	.509	8556	25.6	7	-N	2		0720	.39	.50	1.70		
ATHN	23	0727	0733	0729	N15	W72	.947	8546	17.9	6	-N	2		0729	.50		1.90		
CAPS	23	0816E	0828		N15	E26	.459	8556	25.3	12D	-B	3		0818	.20	.30		260	E
ATHN	23	0817	0832	0820	N13	E30	.509	8556	25.6	15	-B	2		0820	.50	.60	2.00		
ATHN	23	0902	0913D	0905	N14	E30	.512	8556	25.6	11D	-N	2		0905	.66	.70	1.60		
ATHN	23	0909	0947	0916	N15	W73	.952	8546	17.9	38	1N	2		0916	.99		1.90		
ATHN	23	0934	0952	0938	N15	E30	.516	8556	25.6	18	-N	2		0938	.66	.70	1.60		
CAPS	23	1153E	1155D		N15	E26	.459	8556	25.4	2D	-B	1							
ATHN	23	1310	1317	1311	N12	W78	.975	8546	17.7	7	-B	2		1311	.50		2.00		
SACP	23	1325E	1413	1352	N28	W07	.402	8558	23.0	48D	-N		C		1.44	1.45			
MCMA	23	1336	1410	1344	N28	W07	.402	8558	23.0	34	-F		C	1344	.83	.90			E

SOLAR FLARES

PRELIMINARY

OCTOBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
ATHN	23	1337	1417		N28	W08	.407	8558	23.0	40	1N	1					1.80		
SACP	23	1334	1414	1346	N23	W77	.970	8546	17.8	40	1B		C		2.13	4.85			
MCMA	23	1339	1355	1346	N22	W80	.981	8546	17.6	16	-B		C	1345					EV
ATHN	23	1348E	1356		N22	W75	.962	8546	17.9	8D	-N	1					1.60		
MCMA	23	1423	1503	1430	N13	W80	.982	8546	17.6	40	1B		C	1430					
WEND	23	1425E	1449D		N18	W74	.957	8546	18.1	24D	1N				5.16				
HUAN	23	1425E	1505		N14	W76	.967	8546	17.9	40D	-B	1	P	1429	.88				E
ATHN	23	1425E	1520D	1428	N12	W75	.963	8546	18.0	55D	1B			1428	1.16		2.00		
CAPS	23	1427E	1448D		N15	W75	.962	8546	18.0	21D	1N	1		1428	2.00			166	
MCMA	23	1545	1630	1550	N13	E27	.465	8556	25.7	45	-F		C	1550	.52	.60			EH
LOCK	23	1555	1630	1610	N13	E27	.465	8556	25.7	35	-F		C	1610	.40	.43		10	
LOCK	23	1645	1725	1659	N13	W80	.982	8546	17.7	40	-F		C	1659	.50	1.60		10	H
MCMA	23	1647	1655	1649	N13	W80	.982	8546	17.7	8	-F		C	1649					D
HALE	23	1657	1705	1658	N14	W79	.978	8546	17.8	8	-B	1	C	1658	.21				
LOCK	23	1733	1754	1738	N22	W28	.528	8556	21.6	21	-F		C	1738	.50	.60		10	L
LOCK	23	1803	1832	1810	N28	W10	.417	8558	23.0	29	-F		C	1810	.60	.70		10	
LOCK	23	1808	1816	1810	N17	W77	.971	8546	18.0	8	-F		C	1810	.20	.60		10	H
LOCK	23	1905	2000	1925	N14	W82	.988	8546	17.6	55	1N		C	1925	.90	3.20		10	
SACP	23	1906	2007	1927	N13	W81	.985	8546	17.7	61	-N		C		1.09				
MCMA	23	1908E	1950	1910	N13	W82	.988	8546	17.6	42D	-B		C						
MCMA	23			1926									C						DK
HUAN	23	1909	1917D		N14	W80	.982	8546	17.8	8D	-N	1	P	1911	.31				D
HALE	23	1909	1919	1917	N14	W83	.990	8546	17.6	10	-N	1	C	1917	.31				
HALE	23	1920	1936	1927	N14	W83	.990	8546	17.6	16	1B	1	C	1927	.62				
SACP	23	2055	2135	2111	N13	W81	.985	8546	17.8	40	-N		C		.75				
LOCK	23	2055	2135	2105	N14	W80	.982	8546	17.9	40	-N		C	2105	.50	1.60		10	J
HALE	23	2058	2140U	2108	N14	W79	.978	8546	17.9	42U	1B	1	P	2108	.62				
HALE	23	2158	2217	2203	N16	E17	.339	8556	25.2	19	-N	1	C	2203	.31	.32			
LOCK	23	2200	2222	2202	N14	E18	.338	8556	25.3	22	-N		C	2202	.60	.70		20	H
LOCK	23	2230	2400	2300	S27	W02	.534	8561	23.8	90	-F		C	2300	.40	.50		10	
LOCK	23	2231	2244	2234	N14	E18	.338	8556	25.3	13	-N		C	2234	.50	.60		20	H
SACP	23	2231	2252		N15	E19	.359	8556	25.4	21	-F		C		.68	.67			
SACP	23	2231	2257	2240	N15	E18	.345	8556	25.3	26	-F		C		.59	.58			
HALE	23	2234	2242D	2235	N16	E17	.339	8556	25.2	8D	-N	1	P	2235	.41	.42			
LOCK	23	2252	2321	2302	N14	E18	.338	8556	25.3	29	-N		C	2302	.70	.80		20	H
SACP	23	2256	2324	2303	N15	E18	.345	8556	25.3	28	-N		C		1.19	1.17			
SACP	23	2350	2355D	2355U	N15	E17	.331	8556	25.3	5D	-N		P		.86	.85			
LOCK	23	2353	0020D	2357	N14	E17	.324	8556	25.3	27D	1B		C	2357	2.10	2.30		40	H
MANI	24	0010E	0022D		N15	W80	.982	8546	18.0	12D	1N	1		0021	1.03	2.65			
MANI	24	0120E	0130D		N16	W80	.982	8546	18.1	10D	-N	1		0125	1.13	2.91			
ATHN	24	0552E	0604	0553	N22	W07	.312	8553	23.7	12D	-N	2		0553	1.16	1.20	1.30		
ATHN	24	0837	0842D	0838	N29	W18	.489	8558	23.0	5D	-N	2		0838	.66	.70	1.30		
CAPS	24	0944E	0949D		N14	W90	1.000	8546	17.7	5D	-N	2		0945	.20				
ATHN	24	1010	1014	1011	N13	E14	.274	8556	25.5	4	-F	2		1011	.50	.50	1.20		
ATHN	24	1131	1144	1134	N13	E13	.259	8556	25.5	13	-B	2		1134	.66	.70	2.00		
CAPS	24	1139E	1142D		N14	E11	.242	8556	25.3	3D	-F	3		1141	.70	.70		145	
ATHN	24	1242	1255	1245	N13	E13	.259	8556	25.5	13	-N	2		1245	.50	.50	1.70		
CAPS	24	1312	1323		N14	W90	1.000	8546	17.8	11	-N	2			.20				
MCMA	24	1314	1322		N13	W90	1.000	8546	17.8	8	-B		P						
ATHN	24	1315	1323	1319	N23	W90	.999	8546	17.8	8	-B	2		1319	.33		2.00		
MCMA	24	1320	1327	1321	N15	E09	.229	8556	25.2	7	-B		P	1321	.36	.40			DH
ATHN	24	1321	1329	1322	N13	E13	.259	8556	25.5	8	-B	2		1322	.50	.50	2.00		
CAPS	24	1322E	1326		N14	E10	.229	8556	25.3	4D	-F	2						150	
SACP	24	1358	1412	1405	N15	E09	.229	8556	25.3	14	-N		C		.34	.33			
ATHN	24	1402	1409	1403	N13	E12	.245	8556	25.5	7	-F	2		1403	.33	.40	1.30		
SALO	24	1420	1520	1440	N04	E07	.123	8556	25.1	60	1								
ATHN	24	1431	1442	1433	N13	E12	.245	8556	25.5	11	-N	2		1433	.33	.40	1.80		
ATHN	24	1501	1521D	1505	N13	E12	.245	8556	25.5	20D	-B	2		1505	.99	1.10	2.00		
SACP	24	1502	1610	1504	N15	E08	.218	8556	25.2	68	1N		C		2.37	2.33			
MCMA	24	1503	1520	1504	N15	E08	.218	8556	25.2	17	-B		C	1504	1.03	1.10			EHRV
CAPS	24	1505E	1517		N14	E10	.229	8556	25.4	12D	-B	2		1506	.60	.60		210	
LOCK	24	1511E	1525	1511U	N14	E08	.205	8556	25.2	14D	-B		C	1511	2.00	2.06		30	H
LOCK	24	1530	1603	1537	N14	E08	.205	8556	25.2	33	-N		C	1537	.80	.83		20	H
HALE	24	1722	1742	1727	N24	W88	.998	8546	18.1	20	N	2	C	1727	.93				
LOCK	24	1723	1734	1725	N26	W90	.999	8546	18.0	11	2N		C	1725	2.00	8.00		20	
HUAN	24	1724	1733	1726	N24	W90	.999	8546	18.0	9	-N	1	C	1726	1.29				
HALE	24	1745	1813	1750	N13	E11	.232	8556	25.6	28	-N	2	C	1750	.15	.20			
HALE	24	1808	1826	1816	N12	W89	.999	8546	18.1	18	N	2	C	1816	.36				
HALE	24	2046	2055	2049	N23	W05	.317	8553	24.5	9	-F	1	C	2049	.31	.32			
HALE	25	0259	0316	0303	N15	W00	.172	8556	25.1	17	-N	1	C	0303	.31	.32			
ATHN	25	0632	0644	0634	N13	E02	.142	8556	25.4	12	-N	2		0634	.33	.33	1.40		
ATHN	25	0655E	0708	0657	N13	E02	.142	8556	25.4	13D	-N	2		0657	.33	.30	1.30		
ISTA	25	0705E	0710		N13	W01	.139	8556	25.2	5D	-N								
ATHN	25	0720	0732	0724	N15	W01	.173	8556	25.2	12	-B	2		0724	.99	1.00	2.00		
MANI	25	0722E	0725D		N14	E00	.155	8556	25.3	3D	-N	1		0723	.93	.98			
KAND	25	0725E	0730		N14	W01	.156	8556	25.2	5D	-N			0725		.74			C
ATHN	25	0757	0815	0800	N15	W01	.173	8556	25.3	18	-N	2		0800	.66	.70	1.60		
ATHN	25	0936	0942	0937	N15	W02	.176	8556	25.3	6	-N	2		0937	.17	.20	1.40		
ATHN	25	1311	1333	1313	N29	W30	.604	8558	23.3	22	-F	2		1313	.33	.80	1.30		
LOCK	25	1615	1655	1622	N13	W01	.139	8556	25.6	40	-F		C	1622	.50	.52		10	L
LOCK	25	1645	1720	1700	N23	W25	.501	8553	23.8	35	-F		C	1700	.80	.90		10	
HALE	25	1656	1727	1701U	N23	W24	.489	8553	23.9	31	-N	1	C	1701	.26	.30			
HALE	25	1835	1902	1839	N29	W36	.664	8558	23.1	27	-N	1	C	1839	.41	.60			
SACP	25	1838	1845U	1839	N27	W36	.652	8558	23.1	7U	-F		C		.92	1.03			
MCMA	25	1838E	1855		N28	W37	.668	8558	23.0	17D	-N		P	1839	.62	.80			E

SOLAR FLARES

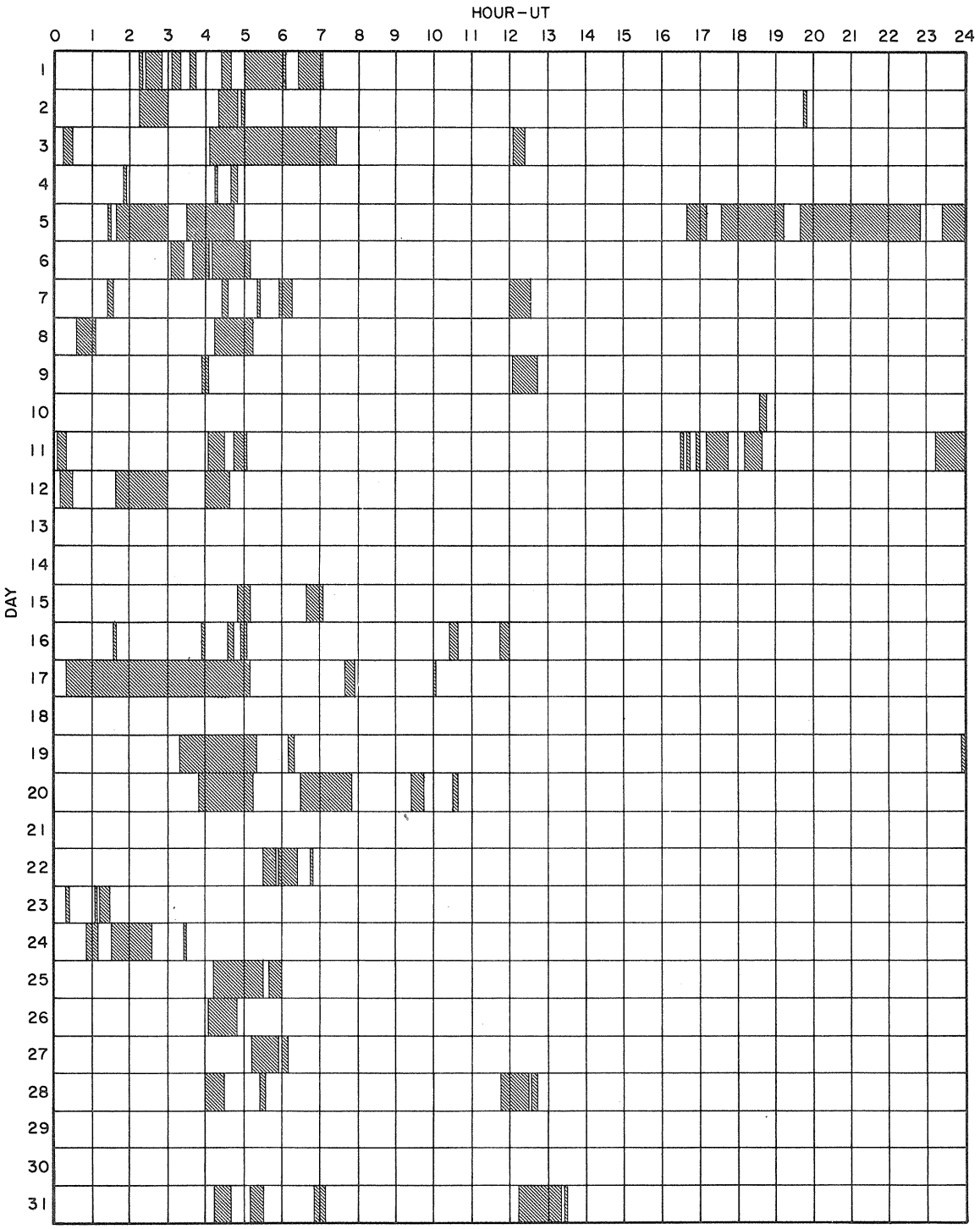
PRELIMINARY

OCTOBER 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	OCT																		
ATHN	26	0926	0943	0928	N24	W24	.499	8553	24.	17	-N	2		0928	1.49	1.70	1.40		
KAND	26	0929	0942		N25	W26	.530	8553	24.4	13	-N								C
MCMA	26	1308	1354		N30	W08	.440	8555	25.9	46	-N		C	1322	1.55	1.70			FL
ATHN	26	1309	1337	1314	N28	W06	.402	8555	26.1	28	1N	2		1314	3.30	3.50	1.80		
HUAN	26	1313E	1339		N28	W09	.416	8555	25.9	26D	-N	2	P	1320	1.08	1.10			E
SACP	26	1327E	1344	1332	N28	W09	.416	8555	25.9	17D	-F		C		1.92	1.93			
MCMA	26	1453	1502		S27	W37	.743	8561	23.8	9	-N		C	1457	.31	.50			DH
HUAN	26	1453	1503	1456	S27	W37	.743	8561	23.8	10	-N	2	C	1456	.36	.44			D
HUAN	26	1534	1546		S27	W37	.743	8561	23.9	12	-F	1	C	1536	.31	.38			D
HUAN	26	1550	1616	1600	S26	W38	.745	8561	23.8	26	-N	2	C	1600	.62	.77			
MCMA	26	1550	1620D	1601	S27	W37	.743	8561	23.9	30D	-B		C	1601	.72	1.10			DH
HUAN	26	1654	1713		S26	W40	.762	8561	23.7	19	-F	1	C	1656	.46	.58			D
MCMA	26	1654	1720D	1658	S27	W37	.743	8561	23.9	26D	-B		C	1658	.52	.80			D
HALE	26	1748	1802	1750	N22	W29	.542	8556	24.6	14	-N	1	C	1750	.31	.40			
MCMA	26	1754	1803	1756	S27	W37	.743	8561	24.0	9	-N		C	1756	.26	.40			D
HALE	26	1756	1812	1758	S24	W40	.750	8561	23.7	16	-N	1	C	1758	.41	.60			T
LOCK	26	1825	1845	1835	S25	W40	.756	8561	23.8	20	-N		C	1835	.80	1.20		20	J
MCMA	26	1825	1905	1835	S27	W37	.743	8561	24.0	40	-B		C	1835	.52	.80			DH
HUAN	26	1829	1840D		S26	W40	.762	8561	23.8	11D	-N	1	C	1834	.62	.77			
LOCK	26	1923	1945	1926	S25	W40	.756	8561	23.8	22	-N		C	1926	.90	1.40		10	J
HALE	26	1925	1938	1926	S24	W40	.750	8561	23.8	13	-N	1	C	1926	.41	.60			T
HUAN	26	1925	1938		S26	W41	.770	8561	23.7	13	-N	1	C	1928	.83	1.02			
MCMA	26	1925	1945	1927	S27	W37	.743	8561	24.0	20	-B		C	1927	.41	.60			D
LOCK	26	1935	2000	1943	S16	W24	.525	8554	25.0	25	-F		C	1943	.30	.40		10	
LOCK	26	2015	2040	2020	S25	W40	.756	8561	23.8	25	-F		C	2020	.60	.90		10	J
LOCK	26	2053	2120	2111	S25	W40	.756	8561	23.9	27	1F		C	2111	2.10	3.20		10	
SACP	26	2106	2120	2111	N28	W42	.720	8558	23.7	14	1N		C		2.61	3.32			
LOCK	26	2142	2200	2146	S25	W40	.756	8561	23.9	18	-F		C	2146	1.10	1.70		10	
HALE	26	2227	2236	2230	S26	W42	.779	8561	23.8	9	-F	1	C	2230	.31	.50			T
HALE	26	2326	2339	2332	S25	W43	.782	8561	23.8	13	-F	1	C	2332	.31	.50			
MANI	27	0107E	0115		S24	W42	.767	8561	23.9	8D	-N	2		0109	.15	.24			
HALE	27	0107	0115	0109	S25	W44	.790	8561	23.7	8	-N	1	C	0109	.31	.50			
SACP	27	1416	1530U	1444	N13	W29	.496	8556	25.4	74U	1N		C		2.52	2.59			
HUAN	27	1420	1520		N14	W26	.457	8556	25.6	60	1F	1	C	1444	2.06	2.10			
MCMA	27	1420	1525	1425	N14	W27	.471	8556	25.6	65	1N		C	1425	1.13	1.30			F
MCMA	27			1444										1444	1.86	2.10			F
ATHN	27	1423E	1513	1426	N13	W30	.510	8556	25.3	50D	1N	1		1426	2.64	3.10	1.80		
SACP	28	0012E	0016D	0008	S21	W59	.893	8561	23.6	4D	-N		C		.72	1.15			
HALE	28	0305	0320	0310	N31	W25	.576	8555	26.3	15	-N	1	C	0310	.15	.20			
ATHN	28	1303E	1309	1303	S29	W60	.919	8561	24.0	6D	-N	1		1303	.33	.80	1.70		
SACP	28	1329E	1415	1343	S26	W64	.934	8561	23.8	46D	-N		C		.86	1.56			
SACP	28	1553	1606	1557	N21	E04	.287	8566	29.0	13	-N		C		.25	.24			
LOCK	28	1554	1600	1557	N21	E04	.287	8566	29.0	6	-F		C	1557	.20	.21		10	
HALE	28	2029	2120	2044	N14	W49	.756	8556	25.2	51	-N	1	C	2044	.52	.80			
LOCK	28	2030	2110	2040	N12	W47	.731	8556	25.3	40	-N		C	2040	1.20	1.80		20	L
HALE	29	0157	0234D	0205	N12	W51	.776	8556	25.3	37D	-N	1	P	0205	.36	.60			
ATHN	29	0601	0613	0603	N18	E25	.467	8567	31.1	12	-B	2		0603	.99	1.10	2.00		
ATHN	29	0833	0855	0836	N22	E22	.461	8567	31.0	22	-N	2		0836	.66	.70	1.40		
ATHN	29	1142	1205	1145	N13	W52	.788	8556	25.6	23	1F	2		1145	2.31	3.70	1.30		
SACP	29	1620	1638	1629	N22	E78	.975	8568	4.5	18	-N		C		.33	.81			
LOCK	29	1824	1838	1829	N23	E19	.437	8567	31.2	14	-F		C	1829	.30	.32		10	
HALE	29	1826	1830D	1829	N21	E18	.405	8567	31.1	4D	-N	1	P	1829	.21	.21			
LOCK	29	1905	1925	1915	N23	E19	.437	8567	31.2	20	-F		C	1915	.40	.42		10	
HALE	29	1910	1928U	1912	N21	E18	.405	8567	31.1	18U	-N	1	P	1912	.26	.30			
LOCK	29	1930	1953	1940	N23	E19	.437	8567	31.2	23	-F		C	1940	.40	.42		10	
LOCK	29	2130	2142	2135	N24	E17	.427	8567	31.2	12	-F		C	2135	.40	.42		10	
LOCK	29	2253	2306	2257	N23	E19	.437	8567	31.4	13	-F		C	2257	.30	.32		10	
HALE	30	0100	0105	0102	N22	W16	.396	8566	28.8	5	-F	1	C	0102	.21	.22			
HALE	30	0107	0120	0109	N23	W14	.388	8566	29.0	13	-F	1	C	0109	.10	.11			
MANI	30	0113E	0120D		N22	W13	.366	8566	29.1	7D	-N	1		0113	.52	.55			
MITK	30	0145	0218	0146	N12	W65	.903	8556	25.2	33	1F		C	0146	1.03	2.30		120	EG
HALE	30	0145	0220	0200	N12	W65	.903	8556	25.2	35	-N	1	C	0200	.52	1.20			
ATHN	30	0713	0721	0714	N22	W21	.450	8566	28.7	8	-N	2		0714	.66	.70	1.70		
ATHN	30	1311	1341	1313	N33	W01	.476	8560	30.5	30	-N	2		1313	.50	.60	1.40		
LOCK	30	1622	1631	1625	N13	E90	1.000	8571	6.4	9	-F		C	1625	.20	.80		10	
LOCK	30	1652	1704	1657	N22	W22	.462	8566	29.1	12	-F		C	1657	.60	.70		10	L
LOCK	30	1955	2001	1957	N23	W25	.505	8566	29.0	6	-N		C	1957	.40	.43		10	H
HALE	30	1957	2002	1958	N23	W24	.494	8566	29.0	5	-N	2	C	1958	.31	.40			
LOCK	30	2015	2037	2023	N23	W25	.505	8566	29.0	22	-F		C	2023	.20	.22		10	
LOCK	30	2021	2029	2024	N13	E90	1.000	8571	6.6	8	-F		C	2024	.30	1.20		10	
LOCK	30	2113	2125	2116	S16	W77	.981	8554	25.1	12	-F		C	2116	.40	1.20		10	
HALE	31	0049	0055	0050	N24	W26	.526	8566	29.1	6	-F	1	C	0050	.21	.22			T
HALE	31	0140	0228	0210	N27	W59	.870	8555	26.6	48	-F	1	C	0210	.52	1.00			
HALE	31	0218	0231	0223	N18	W23	.442	8566	29.4	13	-N	1	C	0223	.21	.22			T
HALE	31	0258	0310	0300	N30	E66	.921	8568	5.1	12	-F	1	C	0300	.21				T
SACP	31	1443	1452	1447	N26	W68	.929	8555	26.5	9	-F		C		.67	1.19			
HALE	31	1824	1850	1828	N30	W76	.969	8555	26.1	26	-F	1	C	1828	.31				T
SACP	31	1858	1908	1901	N19	E82	.988	8571	6.9	10	-N		C		.84				
LOCK	31	1859	1925	1905	N18	E82	.988	8571	6.9	26	2N		C	1905	2.20	7.90		20	H
MCMA	31	1900	1926	1905	N16	E85	.994	8571	7.2	26	-B		C						
HALE	31	1900U	1928	1905U	N18	E79	.979	8571	6.7	28U	1B	1	P	1905	.62				T
LOCK	31	1907	1922	1912	N22	W08	.328	8567	31.2	15	-F		C	1912	.30	.32		10	
SACP	31	1910	1921	1914	N21	W09	.320	8567	31.1	11	-F		C		.33	.33			

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

OCTOBER 1966



Observatories included:

Arcetri	Herstmonceux	Lockheed	Mitaka	Sacramento Peak	Tortosa
Athens	Istanboul	Manila	Monte Mario	Salonique	Wendelstein
Haleakala	Kandilli	McMath-Hulbert			

SOLAR FLARES

JULY 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION — MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	JULY																		
	01	0200	0300	NO FLARE PATROL															
CULG	01	0447	0456	0449	S24	W85	.998	8348	24.8	9	-N		C	0449	.31				
KAND	01	0520	0533D		N32	E10	.509	8361	2.0	13D	-N		P						
CAPS	01	0605E	0632		N30	W90	1.000	8351	24.5	27D	1N	3		0616				170	AH
ARCE	01	0951	1005D	0953	N32	W90	1.000	8351	24.7	14D	1B		C	0953	.56	3.10			AW
ARCE	01			1000										1000	1.01	5.70			AW
MEUD	01	0954	1008		N30	W90	1.000	8351	24.7	14	-N			0956	.52				D
CAPS	01	0955E	1020		N30	W90	1.000	8351	24.7	25D	1N	3						190	AH
KANZ	01	0956E	1000D		N24	W90	1.000	8351	24.7	4D	2B			0959			6.30		A
MEUD	01	1141	1145	1142	N17	W21	.423	8370	29.9	4	-F			1142	.26	.30			D
SACP	01	1225E	1255	1240	N16	W10	.283	8358	30.8	30D	-N		P		.70	.69			
ONDR	01	1227	1254		N17	W12	.316	8358	30.6	27	1N		V	1233			2.40		C
HUAN	01	1228	1244		N17	W10	.296	8358	30.8	16	-F	1	C	1232	.31	.31			D
MCMA	01	1228	1248	1233	N17	W11	.306	8358	30.7	20	-N		C	1233	.36	.40			D
MEUD	01	1229	1232D		N17	W10	.296	8358	30.8	3D	-N			1232	.31	.33			D
MCMA	01	1328	1345D	1335	N19	W26	.502	8370	29.6	17D	-F		C	1335	.31	.40			DH
HUAN	01	1329	1340	1333	N18	W26	.495	8370	29.6	11	-F	1	C	1333	.21	.21			D
MCMA	01	1411	1434	1415	N19	W26	.502	8370	29.6	23	-N		C	1415	.41	.50			E
MCMA	01	1723E	1746	1725	N19	W28	.527	8370	29.6	23D	-F		C	1725	.31	.40			E
MCMA	01	1827	1846D	1830	N19	W26	.502	8370	29.8	19D	-N		C	1830	.31	.40			D
HUAN	01	1830	1846		N18	W29	.533	8370	29.6	16	-F	1	C	1833	.21	.21			D
MCMA	01	2115	2133	2117	N19	W28	.527	8370	29.8	18	-N		C	2117	.26	.30			DH
MCMA	01	2216	2228D	2217	N19	W29	.539	8370	29.8	12D	-N		C	2217	.26	.30			DH
LOCK	01	2240	2315	2250	N36	W01	.547	8361	1.9	35	-N		C	2250	1.00	1.20		10	
HALE	01	2245	2303D	2248	N37	W01	.562	8361	1.9	18D	-N	1	P	2248	.31	.40			
MANI	01	2249E	2303	2250	N33	E00	.502	8361	2.0	14D	-F	2		2250	1.24	1.45			
ONDR	02	0503E	0538D		N38	E06	.580	8362	2.7	35D	1F		V	0512			1.90		CFH
MITK	02	0505	0525	0512	N34	E03	.518	8362	2.4	20	1F		C	0512	2.37	2.80			E
MANI	02	0508	0535	0511	N33	E02	.501	8362	2.4	27	-N	2		0511	.57	.65			
WEND	02	0517E	0535D		N32	E12	.517	8362	3.1	18D	1F		V		2.58				
WEND	02	0519	0538D		N18	W35	.608	8370	29.6	19D	1F		V		3.61				
MANI	02	0519	0531	0523	N14	W19	.371	8358	30.8	12	-N	2		0523	.36	.39			
MITK	02	0520	0537	0528	N14	W22	.413	8358	30.6	17	-N		C	0528	.52	.60			D
IKOM	02	0522	0535		N15	W20	.392	8358	30.7	13	-N		V	0522	.72	.72		110	D
ONDR	02	0526E	0538D		N15	W22	.419	8358	30.6	12D	-B		V	0527			2.00		CD
MEUD	02	1408	1418	1410	N17	W35	.603	8370	30.0	10	-F			1410	.31	.40			E
KANZ	02	1435E	1443		N18	W40	.669	8370	29.6	8D	-F								E
MCMA	02	1401	1550	1404	N43	W09	.654	8361	1.9	109	-F		C	1404	.31	.40			D
HUAN	02	1409	1427	1416	N40	W08	.612	8361	2.0	18	-F	2	C	1416	.26	.28			D
MEUD	02	1410	1520		N37	W05	.564	8361	2.2	70	-N			1420	.31	.40			D
KANZ	02	1455E	1505D		N31	W09	.489	8361	1.9	10D	-F								E
KANZ	02	1455E	1508		N37	W10	.577	8361	1.9	13D	-F								D
KANZ	02	1501E	1515D		N18	W37	.633	8370	29.9	14D	-F								D
KANZ	02	1544E	1547		N18	W41	.680	8370	29.6	3D	-F								D
LOCK	02	2040	2055	2043	N18	W38	.645	8370	30.0	15	-F		C	2043	.40	.50		10	H
LOCK	02	2254	2306	2256	N17	W40	.665	8370	30.0	12	-N		C	2256	.60	.80		10	H
LOCK	03	0020	0040	0026	N17	W31	.551	8370	30.7	20	-F		C	0026	.40	.50		10	
MANI	03	0031E	0042	0035	N32	E02	.485	8362	3.2	11D	-F	2		0035	.31	.36			
HALE	03	0154	0330	0210	N34	W00	.514	8362	3.1	96	-F	2	C	0210	.31	.40			
CULG	03	0237E	0247	0238	N24	E64	.907	8379	7.9	10D	-N		P	0238	.31				
KAND	03	0714	0745		N33	E02	.500	8362	3.5	31	1N		C	0722		2.20			
AROS	03	0713	0755	0720	N35	W23	.621	8361	1.6	42	1N		P	0720	1.70	2.20			
MEUD	03	0715	0720D		N33	W20	.578	8361	1.8	5D	-N			0718	1.65	2.00			F
WEND	03	0715E	0742		N32	W22	.581	8361	1.7	27D	2F		V		7.22				
BUCA	03	0715E	0750D		N35	W20	.601	8361	1.8	35D	1N		C	0721	3.88	4.90			EG
CAPS	03	0716E	0742		N25	W29	.581	8361	1.1	26D	1N	3			2.00	2.40		180	J
KANZ	03	0719E	0745		N34	W17	.570	8361	2.0	26D	1N			0723			1.90		F
CATA	03	0728E	0740D	0730	N35	W20	.601	8361	1.8	12D	-N			0730	.81	1.00		162	
WEND	03	0724E	0730D		N16	W35	.599	8358	30.7	6D	-F								
ARCE	03	0820	0832	0825	N17	W35	.603	8358	30.7	12	1N		C	0825	1.63	2.00			H
ONDR	03	0824E	0830		N16	W36	.611	8358	30.6	6D	-N		V	0826			1.60		DJ
MEUD	03	0824	0832	0825	N15	W35	.595	8358	30.7	8	-N			0825	.52	.60			D
CAPS	03	0825	0834		N15	W35	.595	8358	30.7	9	-N	3		0828	.50	.60		180	
SACP	03	1452	1540U	1502	N36	W24	.639	8361	1.8	48U	1F		C		2.46	2.74			
MCMA	03	1453	1510	1459	N39	W24	.670	8361	1.8	17	-N		C	1459	1.03	1.40			FH
MCMA	03	1807	1842	1818	N35	W03	.531	8362	3.5	35	-B		C	1818	.62	.70			E
LOCK	03	1810	1835	1822	N36	W03	.545	8362	3.5	25	-F		C	1822	.60	.70		10	
HUAN	03	1812	1833		N34	W02	.515	8362	3.6	21	-F	1	C	1815	.57	.59			E
LOCK	03	1835	1900	1844	N15	W40	.658	8370	30.8	25	-F		C	1844	.60	.80		10	L
HUAN	03	1938	2012	1948	N34	W03	.516	8362	3.6	34	-N	2	C	1948	.52	.53			E
HALE	03	1940	2005	1946	N35	W03	.531	8362	3.6	25	-N	2	C	1946	.21	.21			
MCMA	03	1942	2003	1948	N35	W02	.530	8362	3.7	21	-B		C	1948	.31	.40			D
LOCK	03	1945	2010	1950	N36	W05	.548	8362	3.4	25	-F		C	1950	.50	.60		10	
SACP	03	1948D	2006D	1956U	N35	W04	.532	8362	3.5	18D	-N		P		.70	.73			
HALE	03	2033	2038	2034	N35	W05	.534	8362	3.5	5	-B	2	C	2034	.15	.20			
LOCK	03	2315	2340	2322	N12	W43	.688	8358	30.7	25	-F		C	2322	.70	1.00		10	L
HALE	04	0306	0311	0306	N34	W08	.526	8362	3.5	5	-N	2	C	0306	.15	.20			

SOLAR FLARES

JULY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 JULY	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. %	
KANZ	04	0725E	0730		N34	W12	.542	8362	3.4	5D	-F								
MANI	04	0820E	0831D	0823	N35	W10	.547	8362	3.6	11D	-F	2		0823	.64	.79			
KANZ	04	0822E	0826D		N35	W10	.547	8362	3.6	4D	-F								
ARCE	04	0900E	1000D		N36	W10	.561	8362	3.6	60D	1N		C	0930	3.74	4.50			
KAND	04	0925	1051		N35	W09	.543	8362	3.7	86	1N		C	0929		2.20			
KAND	04	1155E	1335		N35	W09	.543	8362	3.8	100D	-N		C						
CAPS	04	1208	1221		N34	W18	.575	8362	3.2	13	1N	3		1216	1.70	2.10		180	J
CAPS	04	1224	1300		N34	W17	.569	8362	3.2	36	1B	3		1241	1.80	2.20		203	J
SACP	04	1251	1300	1253	N34	W14	.551	8362	3.5	9	-N		C		.26	.27			
HUAN	04	1410	1420	1415	N34	W14	.551	8362	3.5	10	-F	2	C	1415	.37	.39			E
CAPS	04	1414	1426		N34	W18	.575	8362	3.2	12	-N	3		1416	1.30	1.50		170	
CAPS	04	1442E	1457D		N34	W19	.581	8362	3.2	15D	-N	3		1445	1.10	1.30		170	
SACP	04	1605	1616	1609	N31	E56	.862	8379	8.9	11	-F		C		.43	.64			
HUAN	04	1608	1611	1609	N30	E57	.867	8379	8.9	3	-F	2	C	1609	.21	.30			D
HUAN	04	1608	1616	1610	N34	W13	.546	8362	3.7	8	-F	2	C	1610	.25	.26			D
LOCK	04	1646	1704	1654	N33	W15	.544	8362	3.6	18	-F		C	1654	.30	.40		10	
HUAN	04	1650	1656	1652	N34	W13	.546	8362	3.7	6	-N	2	C	1652	.25	.26			D
HALE	04	1650	1659	1653	N34	W13	.546	8362	3.7	9	-B	3	C	1653	.21	.22			
LOCK	04	1808	1822	1814	N34	W17	.569	8362	3.5	14	-F		C	1814	.40	.50		10	
HALE	04	1808	1836	1818	N36	W17	.593	8362	3.5	28	-N	2	C	1818	.15	.20			
HUAN	04	1810	1826	1813	N33	W16	.550	8362	3.6	16	-F	2	C	1813	.31	.33			E
LOCK	04	1915	2005	1932	N35	W16	.575	8362	3.6	50	-F		C	1932	1.20	1.40		10	
HUAN	04	1925	2004		N34	W15	.557	8362	3.7	39	-N	1	C	1930	1.03	1.09			E
SACP	04	1926E	2012D	1940U	N34	W17	.569	8362	3.5	46D	1N		P		2.11	2.25			
HALE	04	1928	2007	1938	N34	W16	.563	8362	3.6	39	-B	1	C	1938	1.55	1.90			
MCMA	04	1957E	2009D		N35	W18	.587	8362	3.5	12D	1N		P	1958	1.65	2.10			BE
LOCK	04	2035	2055	2042	N18	W55	.827	8358	30.7	20	-F		C	2042	.40	.70		10	
LOCK	04	2300	2355	2310	N22	W66	.918	8358	30.0	55	-F		C	2310	.20	.40		10	
SACP	05	0051	0102	0055	N34	W18	.574	8362	3.7	11	-F		C		.88	.94			
IKOM	05	0054E	0103D		N33	W18	.561	8362	3.7	9D	-F		V	0054	.31	.32			D
SACP	05	0120	0132D	0128	N34	W22	.601	8362	3.4	12D	-N		P		1.25	1.35			
CULG	05	0121	0156	0130	N32	W21	.571	8362	3.5	35	-N		C	0130	.41	.50			
MITK	05	0128E	0212		N34	W22	.601	8362	3.4	44D	-N		C	0128	.72	.80			E
KAND	05	0415E	0452		N34	W23	.608	8362	3.5	37D	-N		C						
KAND	05	0722	0755		N34	W23	.608	8362	3.6	33	-F		C						
KANZ	05	0729E	0754D		N37	W22	.634	8362	3.7	25D	-N			0731			2.00		E
ISTA	05	0730E	0805D		N33	W23	.597	8362	3.6	35D	-								
ISTA	05	0730E	0805D		N34	W25	.623	8362	3.4	35D	-								
ARCE	05	0835E	0855D		N35	W22	.612	8362	3.7	20D	-N		C	0845	.52	.60			H
KANZ	05	0848E	0853D		N33	W25	.613	8362	3.5	5D	-F								D
MCMA	05	1144E	1245		N35	W26	.641	8362	3.5	61D	-N		C	1145	1.03	1.30			EHT
KAND	05	1144E	1302		N34	W23	.608	8362	3.8	78D	-B		C						
KAND	05	1218	1238		N34	W23	.608	8362	3.8	20	-B		C						
CAPS	05	1315	1330		N34	W29	.655	8362	3.4	15	-N	3		1319	.60	.80		161	
UCCL	05	1320E			N35	W27	.648	8362	3.5		-N		P						E
KANZ	05	1350	1358		N34	W28	.647	8362	3.5	8	-F								E
SACP	05	1359	1420	1404	N15	W64	.899	8358	30.8	21	-F		C		.79	1.28			
HUAN	05	1359	1420	1404	N17	W66	.914	8358	30.6	21	-N	1	C	1404	1.03	1.67			E
KANZ	05	1400	1414		N16	W64	.900	8358	30.8	14	-F								
CAPS	05	1405E	1419		N21	W60	.874	8358	1.1	14D	1N	3		1407	1.70	3.20		160	
MCMA	05	1410E	1555D		N16	W64	.900	8358	30.8	105D	1F		C	1410	1.55	3.50			FHK
KANZ	05	1435E	1445D		N20	W61	.880	8358	1.0	10D	-F								
HUAN	05	1440	1451	1443	N17	W64	.900	8358	30.8	11	-F	1	C	1443	.25	.40			D
LOCK	05	1500	1515	1505	N36	W30	.680	8362	3.4	15	-N		C	1505	.50	.70		10	J
HUAN	05	1502	1516	1504	N33	W30	.654	8362	3.4	14	-F	2	C	1504	.35	.41			E
MCMA	05	1503	1513	1504	N35	W28	.656	8362	3.5	10	-N		C	1504	.31	.40			E
KANZ	05	1600E	1604D		N34	W28	.647	8362	3.6	4D	-F								
HUAN	05	1807	1813		N32	W31	.655	8362	3.4	6	-F	1	C	1808	.21	.24			D
HUAN	05	1837	1913	1849	N33	W32	.671	8362	3.4	36	-N	2	C	1849	.80	.94			E
MCMA	05	1840	1912	1845	N35	W32	.687	8362	3.4	32	-B		C	1845	.72	1.00			E
LOCK	05	1840	1920	1850	N36	W30	.680	8362	3.5	40	-N		C	1850	.90	1.30		10	J
SACP	05	1853E	1857D	1853	N34	W32	.679	8362	3.4	4D	-F		P		1.32	1.51			
MCMA	05	2000	2008	2003	N35	W31	.679	8362	3.5	8	-N		C	2003	.41	.50			E
HUAN	05	2013	2044	2019	N33	W33	.680	8362	3.4	31	-B	2	C	2019	.88	1.02			E
LOCK	05	2013	2050	2025	N36	W30	.680	8362	3.6	37	-N		C	2025	1.00	1.40		20	J
MCMA	05	2014	2043	2025	N34	W33	.688	8362	3.4	29	-B		C	2025	.83	1.20			E
HUAN	05	2152	2211		N34	W35	.704	8362	3.3	19	-F	1	C	2159	.57	.66			E
MCMA	05	2157E	2210D		N34	W34	.696	8362	3.4	13D	-N		C	2157	.72	1.00			E
LOCK	05	2345	0006	2355	N22	W79	.980	8358	30.1	21	-F		C	2355	.30	1.00		10	J
HALE	05	2345	2351	2347	N21	W83	.991	8358	29.8	6	-F	1	C	2347	.15				T
HALE	05	2353	0014	2358	N37	W43	.787	8362	2.8	21	-N	1	C	2358	.41	.70			T
HALE	06	0031	0110	0042	N35	W36	.719	8362	3.3	39	-B	1	C	0042	.52	.70			T
MANI	06	0042E	0130D		N33	W32	.670	8362	3.6	48D	1N	2		0100	2.58	3.58			
CULG	06	0133	0158	0147	N20	W80	.983	8358	30.1	25	-N		C	0147	.31				G
HALE	06	0136	0153	0148	N21	W83	.991	8358	29.8	17	-B	1	C	0148	.21				T
MANI	06	0155E	0209D	0204	N33	W32	.670	8362	3.7	14D	1N	2		0204	1.80	2.50			
HALE	06	0320	0355	0338	N20	W83	.991	8358	29.9	35	-B	1	C	0338	.31				T
MANI	06	0414E	0425D		N33	W34	.687	8362	3.6	11D	-N	2		0420	1.40	1.42			

SOLAR FLARES

JULY 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION —	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
					APPROX.		CENTRAL	MCMATH PLAGE	CMP					TIME —	MEAS. AREA	CORR. AREA	MAX. WIDTH	MAX. INT.	
	DATE 1966	START	END	MAX. PHASE	LAT.	MER. DIST.	DISTANCE	REGION	DAY	MIN.		COND.	TYPE	UT	Sq. Deg.	Sq. Deg.	Hα	%	
	JULY																		
HALE	06	0421	0500D	0429	N35	W37	.727	8362	3.4	39D	-B	1	P	0429	.57	.80			TF
KAND	06	0533	0547		N35	W36	.719	8362	3.5	14	-N		C						
TACH	06	0533	0548	0534	N34	W38	.728	8362	3.4	15	1B		C	0534	1.55	2.20	3.40	96	E
MANI	06	0538E	0557	0540	N33	W25	.612	8362	4.4	19D	1B	2		0540	1.96	2.76			
KIEV	06	0541E			N36	W39	.749	8362	3.3		1N		P	0541	3.09	3.50		65	BI
CATA	06	0620E	0700D	0630	N33	W35	.696	8362	3.6	40D	-B			0630	.77	1.10		166	
BUCA	06	0620E	0708	0632	N34	W39	.737	8362	3.3	48D	-B		C	0632	1.10	1.60			E
KAND	06	0629	0642		N35	W36	.719	8362	3.6	13	-B		C						
CAPS	06	0630	0645		N35	W35	.710	8362	3.6	15	-N	3		0633	.70	.80		170	
ARCE	06	0742E			N35	W37	.727	8362	3.5		-N		P	0742	1.02	1.50			O
ARCE	06	0745E	0900D		N35	W39	.743	8362	3.4	75D	1N		C	0745	2.93	4.40			U
ARCE	06	0745E	0900D	0757	N21	W90	1.000	8358	29.6	75D	2B		C	0757	1.13	6.50			
ISTA	06	0750E	0815		N20	W90	1.000	8358	29.6	25D	1								
KHAR	06	0750	0845D	0803	N17	W88	.999	8358	29.7	55D	2N		V	0829	8.77		6.80		EHOQXY
BUCA	06	0810E	0830D		N34	W39	.737	8362	3.4	20D	-N		C	0820	1.10	1.60			
ISTA	06	0915	0920		N20	W90	1.000	8358	29.6	5	-								
KAND	06	0914	1325		N35	W36	.719	8362	3.7	251	-N		C						
BUCA	06	0928E	1410D		N34	W39	.737	8362	3.5	282D	2N		C	1202	1.51	2.20			FK
BUCA	06	1241E	1304D		N30	E07	.461	8382	7.1	23D	-F		C	1244	1.66	1.90			DG
HUAN	06	1259	1318	1305	N34	W40	.745	8362	3.5	19	-N	2	C	1305	.57	.69			E
MCMA	06	1300E	1330		N34	W41	.753	8362	3.5	30D	-B		P	1300	.77	1.20			BFT
SACP	06	1302E	1330	1307	N34	W39	.737	8362	3.6	28D	-F		P		1.05	1.28			
MCMA	06	1318	1333	1321	N32	E06	.487	8382	7.0	15	-N		P	1321	.31	.40			D
BUCA	06	1320E	1337D		N30	E07	.461	8382	7.1	17D	-F		C	1329	1.10	1.30			DG
MCMA	06	1356	1408D	1403	N34	W41	.753	8362	3.5	12D	-B		P	1403	1.13	1.80			FH
HUAN	06	1401	1424		N33	W40	.739	8362	3.6	23	-F	1	C	1405	.88	1.07			E
KANZ	06	1407E	1440D		N34	W42	.762	8362	3.4	33D	-F								
CAPS	06	1506E	1600D		N35	W35	.710	8362	4.0	54D	-F	3		1517	1.00	1.40		150	
KANZ	06	1515E	1540D		N34	W42	.762	8362	3.5	25D	-F								
LOCK	06	1524	1533	1530	N31	E04	.467	8382	6.9	9	-F		C	1530	.50	.60		10	
HALE	06	1600U	1620D	1610	N29	W88	.998	8361	30.1	20D	B	1	P	1610	.15				
MCMA	06	1742E	1900D		N34	W44	.778	8362	3.4	78D	1N		P	1809	1.29	2.20			FHK
HUAN	06	1747	1814	1801	N33	W44	.773	8362	3.4	27	1F	2	C	1801	1.65	2.05			E
LOCK	06	1755	1810	1803	N34	W42	.762	8362	3.6	15	-N		C	1803	.50	.80		10	J
HALE	06	1810E	1859	1840	N35	W45	.791	8362	3.4	49D	-B	1	P	1840	.41	.70			TE
HALE	06	1936	2100	1947	N35	W46	.799	8362	3.4	84	-N	1	C	1947	.41	.70			TFJK
LOCK	06	1937	1950	1942	N33	W48	.806	8362	3.2	13	-F		C	1942	.40	.70		10	J
MCMA	06	2002E	2007D		N34	W45	.786	8362	3.5	5D	-B		P	2002	.26	.40			DH
HUAN	06	2030	2053	2032	N33	W45	.781	8362	3.5	23	1F	2	C	2032	1.80	2.32			
MCMA	06	2033E	2112		N34	W45	.786	8362	3.5	39D	1B		C	2034	1.55	2.50			FH
HALE	06	2110	2133	2118	N35	W48	.814	8362	3.3	23	-B	1	C	2118	.72	1.20			TI
HUAN	06	2116	2126	2118	N34	W47	.802	8362	3.4	10	-N	2	C	2118	.80	1.05			
MCMA	06	2117	2127	2118	N34	W45	.786	8362	3.5	10	-B		C	2118	.46	.80			E
LOCK	06	2117	2139	2120	N34	W46	.794	8362	3.4	22	-N		C	2120	.50	.90		10	J
LOCK	06	2149	2205	2152	N34	W46	.794	8362	3.5	16	-N		C	2152	.40	.70		10	
HUAN	06	2149	2225D	2152	N34	W47	.802	8362	3.4	36D	-N	2	C	2152	.76	1.00			E
MCMA	06	2150	2215	2152	N34	W45	.786	8362	3.5	25	-B		C	2152	.62	1.00			E
HALE	06	2151	2215	2153	N36	W48	.818	8362	3.3	24	-B	1	C	2153	.62	1.10			TE
MANI	06	2202E	2220		N34	W44	.778	8362	3.6	18D	-N	2		2205	.62	.95			
LOCK	06	2220	2245	2230	N34	W46	.794	8362	3.5	25	-N		C	2230	.30	.50		10	
HALE	06	2222	2242D	2229	N36	W48	.818	8362	3.3	20D	-N	1	P	2229	.52	.90			T
MANI	06	2224	2251D	2231	N34	W44	.778	8362	3.6	27D	-N	2		2231	.88	1.31			
MCMA	06	2225	2255D	2230	N35	W46	.799	8362	3.5	30D	1B		C	2230	1.24	2.10			F
CULG	07	0020	0239	0052	N34	W47	.801	8362	3.5	139	2B		C	0052	7.22	11.90			FJ
MANI	07	0022E	0238D	0041	N34	W45	.785	8362	3.6	136D	2B	3		0041	4.21	6.78			
LOCK	07	0023	0140U	0036	N36	W48	.817	8362	3.4	77U	2N		C	0036	3.20	5.40		20	J
HALE	07			0038U										0038	7.43	12.70			
HALE	07			0030							3B			0030	5.78	9.80			IKUV
SACP	07	0026	0127D	0043	N34	W48	.809	8362	3.4	61D	2B		C		6.73	8.96			
SIBE	07	0028E			N35	W46	.798	8362	3.6		2N		P	0036	4.74	8.70		137	E
IKOM	07	0030	0134	0047	N34	W48	.809	8362	3.4	64	2B		V	0051	3.20	5.40	2.83	150	FK
KAND	07	0420E	1310		N37	W46	.807	8362	3.7	530D	1B		C	0450		3.90			
MANI	07	0554E	0600		N35	W51	.835	8362	3.4	6D	-F	2		0554	1.03	1.78			
BUCA	07	0613E	0914D		N35	W50	.828	8362	3.5	181D	1N			0712	2.22	3.80			
ISTA	07	0715	0755		N35	W49	.821	8362	3.6	40	1								
ABST	07	0749E	1409D	0800	N35	W50	.828	8362	3.6	380D	1N		C	0800		3.70		71	DFK
ARCE	07	0753E	1000D		N35	W50	.828	8362	3.6	127D	2N		C	0826	3.67	6.10			U
ISTA	07	0755	0804		N36	W50	.832	8362	3.6	9	1								
BUCA	07	0941E	0955D		N35	W50	.828	8362	3.7	14D	1N		C	0949	1.66	2.90			E
ARCE	07	1056E			N35	W50	.828	8362	3.7		1N		P	1056	2.73	4.50			O
BUCA	07	1115E	1133D		N35	W50	.828	8362	3.7	18D	1N		C	1126	1.66	2.90			E
BUCA	07	1149E	1205D		N32	W01	.477	8382	7.4	16D	-F		C	1152	1.10	1.20			
BUCA	07	1150E	1201D		N35	W47	.805	8362	4.0	11D	-N		C	1152	1.10	1.90			
KIEV	07	1154E	1219D		N36	W55	.867	8362	3.4	25D	1N		P	1154	4.64	6.00		60	I
BUCA	07	1222E	1300D		N35	W50	.828	8362	3.8	38D	1N		C	1240	2.76	4.80			
SACP	07	1319	1337	1326	N34	W56	.868	8362	3.4	18	-N		C		.70	1.03			
HALE	07	1756	1812	1757	N35	W58	.884	8362	3.4	16	-N	3	C	1757	.31	.70			JT
LOCK	07	1817	1825	1820	N35	W57	.877	8362	3.5	8	-F		C	1820	.40	.80		10	J
HUAN	07	1817	1826	1820	N34	W60	.894	8362	3.3	9	-N	2	C	1820	.37	.60			

SOLAR FLARES

JULY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	JULY																		
HALE	07	1819	1825	1820	N35	W59	.890	8362	3.3	6	-N	3	C	1820	.31	.70			JT
MCMA	07	1819	1825	1820	N34	W60	.894	8362	3.3	6	-N		C	1820	.62	1.30			D
LOCK	07	1903	1920	1910	N35	W57	.877	8362	3.5	17	-F		C	1910	.50	1.00		10	J
HALE	07	1907	1922	1909	N36	W60	.898	8362	3.3	15	-N	2	C	1909	.41	.90			JT
MCMA	07	1909	1915	1910	N34	W58	.881	8362	3.4	6	-F		C	1910	.31	.60			D
HUAN	07	1931	1944	1938	N34	W60	.894	8362	3.3	13	-F	2	C	1938	.62	.96			E
LOCK	07	1933	2000	1940	N35	W57	.877	8362	3.5	27	-F		C	1940	.60	1.20		10	
MCMA	07	1936	1950	1938	N34	W60	.894	8362	3.3	14	-N		C	1938	.52	1.10			E
HALE	07	1938	1948	1940	N36	W60	.898	8362	3.3	10	-N	2	C	1940	.62	1.40			JT
HALE	07	2003	2013	2005	N36	W60	.898	8362	3.3	10	-N	1	C	2005	.52	1.20			JT
HUAN	07	2005	2014	2007	N34	W58	.881	8362	3.5	9	-F	2	C	2007	.37	.57			D
MCMA	07	2008E	2017		N34	W61	.900	8362	3.3	9D	-N		P	2012	.52	1.10			EH
LOCK	07	2047	2115	2051	N23	W03	.337	8379	7.6	28	-N		C	2051	1.00	1.10		20	
HUAN	07	2049	2108	2052	N21	W03	.305	8379	7.6	19	-N	2	C	2052	.45	.46			
MCMA	07	2049	2112	2051	N22	W03	.321	8379	7.6	23	-B		C	2051	.52	.50			E
HALE	07	2050	2103	2051	N21	W03	.305	8379	7.6	13	-N	2	C	2051	.31	.32			
MCMA	07	2132	2150	2135	N34	W61	.900	8362	3.3	18	1F		C	2135	1.03	2.10			F
HALE	07	2134	2141	2136	S35	E25	.708	8388	9.8	7	-F	2	C	2136	.15	.20			
SACP	07	2332U	2350	2340	N21	W05	.312	8379	7.6	18U	-N		C		.27	.26			
MANI	08	0000	0020	0006	N34	W58	.881	8362	3.6	20	-N	3		0006	.72	1.36			
SACP	08	0022	0041	0033	N35	W56	.870	8362	3.8	19	-N		C		1.06	1.57			
MANI	08	0022	0114	0036	N34	W57	.874	8362	3.7	52	1N	3		0036	1.31	2.46			
LOCK	08	0028	0050	0037	N34	W55	.860	8362	3.9	22	-N		C	0037	.70	1.30		10	J
HALE	08	0028	0055	0031	N35	W61	.902	8362	3.4	27	1B	1	C	0031	1.24	2.80			JT
HALE	08	0034	0040	0035	S33	E27	.703	8388	10.0	6	-F	1	C	0035	.10	.12			
SACP	08	0117	0126	0120	N36	W62	.909	8362	3.4	9	-F		C		.80	1.32			
HALE	08	0117	0127	0121	N35	W59	.889	8362	3.6	10	-N	1	C	0121	.15	.30			
LOCK	08	0117	0127	0120	N35	W63	.913	8362	3.3	10	-N		C	0120	.30	.60		10	J
LOCK	08	0145	0200D	0152	N34	W67	.934	8362	3.0	15D	-N		C	0152	.60	1.30		10	J
HALE	08	0147	0225	0149	N35	W61	.902	8362	3.5	38	-N	1	C	0149	.41	.90			JT
ABST	08	0336E	1310D	0516	N35	W65	.924	8362	3.3	574D	1N		C	0516		5.60		68	DFK
HALE	08	0408	0420	0414	N35	W61	.902	8362	3.6	12	-N	1	C	0414	.41	.90			JT
CULG	08	0408	0420	0413	N34	W64	.917	8362	3.4	12	1N		C	0413	1.03	2.50			J
CULG	08	0511	0520	0516	N34	W64	.917	8362	3.4	9	1B		C	0516	1.03	2.50			J
TACH	08	0514	0520	0516	N35	W67	.935	8362	3.2	6	1N		C	0516	.91			84	D
KAND	08	0514	0535		N36	W64	.920	8362	3.4	21	1N		C	0518		3.10			
ISTA	08	0825	0835		N22	W07	.336	8379	7.8	10	1								
ARCE	08	0756E	0758D		N35	W65	.924	8362	3.5	2D	1N		P	0758	1.95	4.20			
KAND	08	0800	1042		N36	W64	.920	8362	3.5	162	1N		C	0806		2.50			
ARCE	08	0839E	0855D		N35	W65	.924	8362	3.5	16D	1N		P	0853	1.40	3.00			
SALT	08	0900E	0912		N34	W65	.923	8362	3.5	12D	1N	3		0905	1.20	2.90		175	C
ISTA	08	0905E	0915D		N35	W75	.969	8362	2.8	10D	-								
ARCE	08	0914E	0915D		N35	W65	.924	8362	3.5	1D	1N		P	0915	1.69	3.70			U
ARCE	08	0839E	0855D		N30	W16	.507	8382	7.2	16D	-N		P	0851	1.66	1.90			
KAND	08	0915	0939		N31	W11	.489	8382	7.6	24	-N		C						
MCMA	08	1116	1140	1126	N35	W70	.949	8362	3.2	24	-N		C	1126	.52	1.50			DT
MCMA	08	1200	1225	1204	N35	W70	.949	8362	3.3	25	-N		C	1204	.52	1.50			D
HUAN	08	1202	1347	1215	N35	W69	.944	8362	3.3	105	1N	2	C	1215	.99				
HUAN	08			1248										1248	2.01				
KAND	08	1209E	1325D		N36	W64	.920	8362	3.7	76D	-N		C						
CAPS	08	1212E	1233		N33	W69	.943	8362	3.3	21D	-N	3		1217	.50	1.50		160	E
MEUD	08	1214	1228	1219	N35	W63	.913	8362	3.8	14	-F			1219	.41				E
CAPS	08	1236	1330		N33	W67	.932	8362	3.5	54	2N	3		1247	2.10			204	J
MCMA	08	1238	1330	1248	N35	W70	.949	8362	3.3	52	2B		C	1248	1.24	5.20			FH
MCMA	08			1307															
MEUD	08	1240	1310	1250	N35	W62	.908	8362	3.9	30	1B			1250	2.27				
SALT	08	1243E	1358		N34	W66	.928	8362	3.6	75D	2B	3		1255	2.20	5.50		220	C
ZURI	08	1253E	1340	1310	N34	W67	.934	8362	3.5	47D	2N		V	1310	5.05				
MCMA	08	1413E	1433D	1416	N32	W19	.552	8382	7.2	20D	-N		P	1416	.31	.90			D
MCMA	08	1413E	1508D	1416	N35	W72	.957	8362	3.2	55D	-N		P	1416	.62	1.70			D
HUAN	08	1526	1552	1535	N35	W70	.949	8362	3.4	26	-N	2	C	1535	.67				
MCMA	08	1530	1550	1533	N35	W72	.957	8362	3.2	20	-N		C	1533	.62	1.70			E
MCMA	08	1557	1604	1559	N30	W22	.554	8382	7.0	7	-N		C	1559	.77	.90			E
HUAN	08	1648	1806	1714	N35	W70	.949	8362	3.5	78	1N	2	C	1714	1.38				
HUAN	08			1754										1754	1.50				
MCMA	08	1650	1744D	1658	N35	W70	.949	8362	3.5	54D	1B		C	1658	.52	1.50			EHK
MCMA	08			1716										1716	1.03	3.00			EHK
LOCK	08	1652	1730	1700	N34	W70	.948	8362	3.5	38	-N		C	1700	.80	1.90		10	JK
LOCK	08			1715										1715	.80	1.90		10	JK
HALE	08	1710	1726	1712	N36	W72	.958	8362	3.3	16	2B	2	C	1712	2.06				JT
KANZ	08	1710	1743D	1714	N34	W67	.934	8362	3.7	33D	2N			1714			3.00		
SACP	08	1718E	1737D	1726	N33	W70	.947	8362	3.5	19D	1N		P		1.75	3.44			
LOCK	08	1830	1855	1840	N30	W25	.580	8382	6.9	25	-F		C	1840	.40	.50		10	J
MCMA	08	1853	1859	1857	N21	W18	.418	8379	7.4	6	-F		C	1857	.26	.30			DH
LOCK	08	1940	1955	1945	N31	W25	.590	8382	6.9	15	-N		C	1945	.60	.70		10	
HALE	08	1942	1953	1943	N30	W25	.580	8382	6.9	11	-N	2	C	1943	.41	.50			
LOCK	08	2035	2110	2040	N22	W19	.439	8379	7.4	35	-N		C	2040	.50	.60		10	JK
LOCK	08			2055										2055	.50	.60		10	JK
HALE	08	2045	2108	2054	N22	W17	.418	8379	7.6	23	-N	2	C	2054	.52	.60			

SOLAR FLARES

JULY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 JULY	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
MCMA	08	2052E	2107D		N21	W19	.429	8379	7.4	15D	-N		P	2057	.41	.40			D
HUAN	08	2057	2201	2127	N35	W73	.961	8362	3.4	64	-N	2	C	2127	.80				E
MCMA	08	2100	2107D	2103	N35	W73	.961	8362	3.4	7D	-N		P	2103	.52	1.20			E
LOCK	08	2120	2145	2123	N35	W71	.953	8362	3.6	25	-N		C	2123	.80	2.00		10	JK
LOCK	08			2130										2130	.80	2.00		10	JK
HALE	08	2124	2142	2126	N35	W75	.969	8362	3.3	18	1B	2	C	2126	1.03				JT
HUAN	08	2140	2201	2146	N22	W18	.428	8379	7.6	21	-B	2	C	2146	.95	.96			
LOCK	08	2140	2205	2145	N22	W18	.428	8379	7.6	25	-N		C	2145	1.20	1.30		20	
HALE	08	2143	2158	2145	N22	W17	.418	8379	7.6	15	-N	2	C	2145	1.24	1.40			
HALE	08	2226	2300	2233U	N35	W75	.969	8362	3.3	34	1N	2	C	2233	1.03				JT
MANI	08	2228	2340	2240	N34	W69	.943	8362	3.8	72	1N	1		2240	1.65	3.58			
LOCK	08	2235	2305	2240	N33	W76	.972	8362	3.2	30	-F		C	2240	.60	1.30		10	J
MCMA	08	2238	2254D		N35	W75	.969	8362	3.3	16D	1B		P	2245	.83	2.50			E
MANI	08	2347E	2355D	2350	N34	W69	.943	8362	3.8	8D	1F	2		2350	.98	2.12			
SACP	09	0037	0046	0040	N21	W18	.416	8379	7.7	9	-N		C		.78	.79			
HALE	09	0038	0048	0039	N22	W18	.427	8379	7.7	10	-N	2	C	0039	.83	.90			V
HALE	09	0230	0302	0233	N35	W75	.969	8362	3.5	32	1B	2	C	0233	1.65				JT
TACH	09	0235	0520	0310	N35	W75	.969	8362	3.5	165	3F		C	0310	2.56		5.00	93	WY
TACH	09			0346										0346	5.01		5.00	93	
MANI	09	0245E	0246D		N34	W70	.948	8362	3.9	1D	1N	1		0245	1.55	3.42			
HALE	09	0310	0434	0313	N35	W75	.969	8362	3.5	84	3B	2	C	0313	2.27				JTK
HALE	09			0330										0330	4.43				JTI
ABST	09	0330E	0436D	0358	N35	W75	.969	8362	3.5	66D	1N		C	0358		7.90		68	DFKY
MANI	09	0335E	0510	0335	N33	W76	.971	8362	3.4	95D	2B	2		0335	2.99	7.42			
MANI	09	0544	0559	0550	N33	W77	.975	8362	3.5	15	-N	2		0550	.52	1.25			
CAPS	09	0600E	0611D		N36	W90	.999	8362	2.5	11D	1N	3							A
BUCA	09	0713E	0826D		N35	W75	.969	8362	3.7	73D	2N		C	0733	3.32				AE
MANI	09	0727E	0802D	0732	N33	W78	.978	8362	3.5	35D	1B	1		0732	.93	2.24			
ARCE	09	0805E			N35	W78	.978	8362	3.5		2N		P	0805	3.76	11.60			O
ARCE	09	0810E	1005D		N35	W78	.978	8362	3.5	115D	1N		C	0900	1.69	3.70			U
ARCE	09	0935E	1005D		N18	E07	.273	8390	9.9	30D	-F		C	0945	1.24	1.30			
BUCA	09	1108E			N35	W75	.969	8362	3.8		1F		P	1119	2.22				E
MCMA	09	1230E	1300D	1240	N18	E07	.273	8390	10.0	30D	-N		P	1240	1.03	1.00			E
HUAN	09	1304	1402	1308	N35	W82	.989	8362	3.4	58	1F	2	C	1308	.25				
HUAN	09			1333	N34	W82								1333	1.13				
MCMA	09	1308	1318	1310	N36	W85	.994	8362	3.2	10	-F		C	1310	.31				D
MCMA	09	1323	1345		N35	W88	.998	8362	3.0	22	-F		C	1338	.31				D
MCMA	09	1406	1430D	1410	N35	W88	.998	8362	3.0	24D	-F		C	1410	.31				D
HUAN	09	1617	1633	1623	N36	W85	.994	8362	3.3	16	-F	1	C	1623	.37				D
HUAN	09	1706	1738		N35	W85	.994	8362	3.3	32	-N	1	P	1712	.88				
HUAN	09	1750	1759	1754	N33	W88	.998	8362	3.1	9	-F	2	C	1754	.25				D
LOCK	09	1750	1803	1755	N33	W84	.992	8362	3.4	13	-N		C	1755	.30	1.00		10	J
HUAN	09	1833	1856	1844	N34	W87	.997	8362	3.2	23	-N	2	C	1844	.57				E
LOCK	09	1843	1854	1846	N34	W85	.994	8362	3.4	11	-N		C	1846	.30	1.00		10	J
HALE	09	1845	1853	1846	N33	W88	.998	8362	3.2	8	B	2	C	1846	.31				
HALE	09	1948	2110	2050	N34	W87	.997	8362	3.3	82	N	2	C	2050	.83				
HUAN	09	1952	2006	1956	N34	W87	.997	8362	3.3	14	-F	2	C	1956	.37				
HALE	09	1955	2007	1957	N34	W87	.997	8362	3.3	12	N	2	C	1957	.41				
HUAN	09	2014	2027		N34	W88	.998	8362	3.2	13	-F	1	C	2023	.41				E
HUAN	09	2043	2059	2051	N35	W88	.998	8362	3.3	16	-F	2	C	2051	.41				E
HUAN	09	2106	2122	2110	N33	W88	.998	8362	3.3	16	-F	2	C	2110	.25				E
CULG	09	2130E	2211	2142	N34	W90	.999	8362	3.1	41D	-N		P	2142	.21				
HUAN	09	2137	2151		N33	W88	.998	8362	3.3	14	-F	2	C	2146	.31				E
LOCK	09	2137	2154	2146	N34	W85	.994	8362	3.5	17	-F		C	2146	.30	1.00		10	J
HALE	09	2140	2153	2143	N34	W87	.997	8362	3.4	13	N	2	C	2143	.41				
HUAN	09	2155	2206	2201	N33	W88	.998	8362	3.3	11	-F	2	C	2201	.25				D
LOCK	09	2155	2210	2202	N33	W84	.992	8362	3.6	15	-N		C	2202	.30	1.00		10	J
HALE	09	2205E	2220		N32	W88	.998	8362	3.3	15D	N	1	P	2205	.31				T
LOCK	09	2240	2305	2250	N34	W85	.994	8362	3.6	25	-F		C	2250	.30	1.00		10	J
HALE	09	2241	2254	2243	N32	W88	.998	8362	3.3	13	N	1	C	2243	.21				T
LOCK	09	2345	0020	2350	N34	W85	.994	8362	3.6	35	-F		C	2350	.30	1.00		10	J
LOCK	09	2345	0020	0008	N34	W85	.994	8362	3.6	35			C	2408	.30	1.00		10	J
CULG	10	0002	0021	0005	N35	W90	.999	8362	3.3	19	-N		C	0005	.31				
HALE	10	0002	0022	0015	N32	W83	.990	8362	3.8	20	-N	1	C	0015	.31				TE
HALE	10	0043	0057	0046	N32	W88	.998	8362	3.4	14	N	1	C	0046	.21				T
LOCK	10	0050	0057	0053	N33	W84	.992	8362	3.7	7	-N		C	0053	.30	1.00		10	J
MANI	10	0051E	0053D		N32	W90	.999	8362	3.3	2D	-B	1		0053	.34	1.00			
SACP	10	0051	0056	0052	N33	W87	.997	8362	3.5	5	-N		C		.26				
CULG	10	0051	0106	0052	N33	W90	.999	8362	3.3	15	-B		C	0057	.31				
HALE	10	0052	0055	0053	N33	W88	.998	8362	3.4	3	B	1	C	0053	.31				T
HALE	10	0120	0224	0128	N23	W59	.867	8373	5.6	64	-N	1	C	0128	.21	.40			TK
MANI	10	0122E	0141D	0122	N31	W90	.999	8362	3.3	19D	1N	1		0122	.72	2.16			
HALE	10	0227	0245	0233	N37	W83	.991	8362	3.9	18	1N	1	C	0233	.83				T
CULG	10	0334	0407	0342	N31	W90	.999	8362	3.4	33	1B		C	0342					
TACH	10	0338	0400	0341	N32	W90	.999	8362	3.4	22	1F		C	0341	.91		7.40	105	AX
MANI	10	0339	0401	0343	N31	W90	.999	8362	3.4	22	1B	1		0343	.83	2.68			
CULG	10	0349	0425	0355	N27	W60	.880	8373	5.7	36	-N		C	0355	.41	.90			
MANI	10	0456E	0508D	0459	N31	W90	.999	8362	3.5	12D	-N	3		0459	.25	.84			

SOLAR FLARES

JULY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 JULY	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
┌MANI	10	0658E	0709		N32	W90	.999	8362	3.5	11D	-F	1		0700	.33	1.07			
├BUCA	10	0700E	0837D		N36	W80	.984	8362	4.3	97D	2N		C	0748	2.22				E
├MANI	10	0710	0750	0717	N32	W90	.999	8362	3.5	40	2N	2		0717	2.00	6.50			
├CAPS	10	0716	0733		N35	W80	.984	8362	4.3	17	-N	3						164	
├CATA	10	0716E	0735D	0718	N34	W85	.994	8362	3.9	19D	-B			0718	.32			214	
├KIEV	10	0716E	0825D	0724	N36	W90	.999	8362	3.6	69D	1N		C	0724	5.16			70	HI
└ARCE	10	0800E	0825D		N36	W85	.994	8362	4.0	25D	-N		C		.39	1.60			
┌ARCE	10	0905	0925	0915	N34	W90	.999	8362	3.6	20	1B		C	0915	.71	4.10			
├BUCA	10	0908E	0924D		N36	W90	.999	8362	3.6	16D	1B		C	0917	.89				
├ISTA	10	0909	1002		N37	W90	.999	8362	3.6	53	1								
├CAPS	10	0910	0925		N35	W90	.999	8362	3.6	15	1B	3						200	
├UCCL	10	0914E	0919D		N33	W90	.999	8362	3.6	5D	1N		P						D
├MANI	10	0915	0925	0918	N32	W90	.999	8362	3.6	10	-N	1		0918	.41	1.36			
├KHAR	10	0918E	0930D	0920	N32	W90	.999	8362	3.6	12D	1N		V	0920	1.55		2.30		DO
├CATA	10	0920E	0925D	0920	N33	W90	.999	8362	3.6	5D	-N			0920	.19			174	
├ARCE	10	0935	1000D	0935	N34	W90	.999	8362	3.6	25D	-N		C	0935	.23	1.20			
└BUCA	10	0937E	0959D		N36	W90	.999	8362	3.7	22D	-B		C	0941	.44				
┌ARCE	10	0918E	1000D		N23	W68	.929	8373	5.3	42D	-F		C	0930	.36	.80			
├ISTA	10	0923	1023		N24	W67	.924	8373	5.4	60	-								
├CATA	10	1010E	1100D	1030	N23	W67	.923	8373	5.4	50D	-N			1030	.18			190	
└KAND	10	1020E	1057		N26	W67	.925	8373	5.4	37D	-N		V						
┌CATA	10	0945E	0950D	0947	N19	W40	.668	8379	7.4	5D	-N			0947	.19	.20		162	
└ARCE	10	0945	1000D	0955	N19	W40	.668	8379	7.4	15D	-N		C	0955	1.21	1.60			H
ISTA	10	0946	1000		N31	W45	.769	8382	7.0	14	-								
CAPS	10	1033	1040		N34	W90	.999	8362	3.7	7	-N	3						180	D
┌KAND	10	1105	1137		N39	W90	.999	8362	3.7	32	2N		V						
└MCMA	10	1134E	1150		N35	W90	.999	8362	3.7	16D	-F		C						A
┌CAPS	10	1233	1250		N32	W90	.999	8362	3.8	17	-F	3						135	
├HUAN	10	1237	1243	1239	N36	W90	.999	8362	3.8	6	-F	2	C	1239	.25				D
└MCMA	10	1239	1243	1240	N35	W90	.999	8362	3.8	4	-F		C						
MCMA	10	1253	1310	1257	N19	W43	.703	8379	7.3	17	-N		C	1257	.36	.50			D
┌KANZ	10	1502	1535D		N36	W90	.999	8362	3.9	33D	1B								
├LOCK	10	1522	1532	1524	N34	W90	.999	8362	3.9	10	-N		C	1524	.30	1.10		10	JL
└HUAN	10	1522	1532	1527	N35	W90	.999	8362	3.9	10	-F	2	C	1527	.25				D
┌MCMA	10	1612	1705	1621	N19	W44	.714	8379	7.4	53	-F		C	1621	.62	.90			EH
├MCMA	10			1632															
└MCMA	10			1648															
┌HALE	10	1653	1708	1659	N36	W87	.997	8362	4.2	15	N	1	C	1659	.21				T
├LOCK	10	1655	1703	1658	N34	W90	.999	8362	4.0	8	-F		C	1658	.30	1.10		10	JL
└MCMA	10	1655	1825		N35	W90	.999	8362	4.0	90	-F		C						
┌HALE	10	1758	1806D	1803	N35	W87	.997	8362	4.2	8D	B	1	P	1803	.62				TE
├LOCK	10	1758	1840	1803	N34	W90	.999	8362	4.0	42	1N		C	1803	1.00	3.70		20	JL
├HUAN	10	1759	1811	1805	N35	W90	.999	8362	4.0	12	-N	2	C	1805	.62				
├MCMA	10	1800	1850	1805	N35	W90	.999	8362	4.0	50	1B		C						AFK
├MCMA	10			1827															AFK
└SACP	10	1801	1813	1806	N36	W89	.999	8362	4.1	12	-N		C		.53				
HALE	10	1830	1853	1846	N23	W72	.951	8373	5.4	23	-F	1	C	1846	.21				T
┌HALE	10	1903	1923	1910	N37	W87	.997	8362	4.3	20	B	1	C	1910	.41				T
├LOCK	10	1903	1930	1912	N34	W90	.999	8362	4.0	27	-N		C	1912	.50	1.90		10	JL
├HUAN	10	1907	1916	1910	N36	W90	.999	8362	4.0	9	-F	1	C	1910	.25				D
└MCMA	10	1907	1925	1911	N39	W90	.999	8362	4.0	18	-B		C						
┌HALE	10	1935	1946	1940	N37	W87	.997	8362	4.3	11	B	1	C	1940	.52				TE
├LOCK	10	1935	2010	1940	N34	W90	.999	8362	4.1	35	1N		C	1940	.70	2.60		10	JL
├MCMA	10	1935	2055	1943	N38	W90	.999	8362	4.1	80	1B		C						
├MCMA	10			2033															
├HUAN	10	1936	1942		N37	W90	.999	8362	4.1	6	-F	1	P	1940	.25				D
└LOCK	10	2011	2055	2025	N34	W90	.999	8362	4.1	44	1N		C	2025	.70	2.60		10	JL
MCMA	10	2018	2038	2022	N18	W48	.755	8379	7.2	20	-N		C	2022	.72	1.10			E
┌CULG	10	2122E	2230D	2206	N34	W90	.999	8362	4.1	68D	F		P	2206	.52				
├MCMA	10	2138	2238D	2148	N39	W90	.999	8362	4.2	60D	-N		C						
└HUAN	10	2200	2216	2206	N36	W90	.999	8362	4.2	16	-F	1	C	2206	.21				D
┌LOCK	10	2300	2334	2320	N34	W90	.999	8362	4.2	34	1N		C	2320	.80	3.00		10	JL
└CULG	10	2312E	2332	2320	N31	W90	.999	8362	4.2	20D	-N		P	2320	.21				
┌CULG	11	0407	0433	0415	N31	W90	.999	8362	4.4	26	-N		C	0415	.31				
├HALE	11	0410E	0436	0410	N39	W87	.997	8362	4.6	26D	B	1	P	0410	.31				T
├ONDR	11	0418E	0443		N35	W90	.999	8362	4.4	25D	-F		V						AJ
┌CULG	11	0522	0540	0527	N17	W52	.794	8379	7.3	18	-N		C	0527	.83	1.36			
└ONDR	11	0525E	0540		N17	W50	.774	8379	7.5	15D	1N		V	0526			2.60		C
┌BUCA	11	0625E	0908D		N40	W90	.999	8362	4.5	163D	2B		C	0905	2.66				
├CAPS	11	0709E	0904D		N37	W90	.999	8362	4.5	115D	1F	3							
├KHAR	11	0711E	0752D		N35	W90	.999	8362	4.5	41D	1F		V	0716	1.03		3.20		DE
└SALT	11	0715E	0845		N34	W90	.999	8362	4.6	90D	2N	3		0730	1.80	10.80		200	C
ARCE	11	0736E	0745D		N30	W55	.848	8379	7.2	9D	1N		P	0736	1.18	2.20			
┌KHAR	11	0815E	0840D		N35	W90	.999	8362	4.6	25D	2F		V	0836	2.06		4.00		DE
├ARCE	11	0820E	0941D	0910	N36	W90	.999	8362	4.6	81D	3B		C	0910	3.25	18.50			W
└ARCE	11			0917										0917	7.48	42.50			A
ARCE	11	0835E	0910D		N19	W51	.788	8379	7.5	35D	-F		C	0835	.59	1.00			H
ARCE	11	0835E	0922D		S32	W02	.587	8394	11.2	47D	1F		C	0850	1.66	2.00			H
┌KHAR	11	0900E	1052	0928	N34	W90	.999	8362	4.6	112D	3+		V	0906			6.10		HLVX

SOLAR FLARES

JULY 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 JULY	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
CAPS	11	0904	1000		N37	W90	.999	8362	4.6	56	4N	3		0931	30.00			260	AIMREF
SACP	11	1232	1255	1241	N18	W53	.806	8379	7.5	23	-N		C		1.06	1.42			
ONDR	11	1241E	1251		N17	W53	.804	8379	7.6	10D	-N		V	1244			1.70		D
SACP	11	1348	1405	1400	N26	E90	1.000	8397	18.3	17	-N		C		.70				
HUAN	11	1357	1405	1401	N26	E90	1.000	8397	18.3	8	-N	2	C	1401	.31				D
HUAN	11	1601	1722D	1612	N22	W56	.840	8379	7.5	81D	-F	2	C	1612	.31	.42			D
HUAN	11			1702										1702	.25	.34			
KANZ	11	1702E	1710D		N22	W51	.794	8379	7.9	8D	-F								
LOCK	11	1700	1728	1710	S16	E81	.991	8396	17.8	28	-F		C	1710	.30	1.00		10	J
LOCK	11	1813	1900	1825	S16	E81	.991	8396	17.8	47	-F		C	1825	.30	1.00		10	
LOCK	11	1820	1835	1825	N18	W56	.834	8379	7.6	15	-F		C	1825	.40	.70		10	J
LOCK	11	1931	1944	1935	N18	W56	.834	8379	7.6	13	-F		C	1935	.50	.90		10	J
HUAN	11	1932	1941	1934	N21	W58	.855	8379	7.5	9	-N	2	C	1934	.43	.62			E
MCMA	11	1932	1945	1935	N22	W58	.857	8379	7.5	13	-B		C	1935	.62	1.20			E
MCMA	11	2030	2110	2034	N22	W58	.857	8379	7.5	40	-F		C	2034	.62	1.20			E
HUAN	11	2037	2108		N21	W58	.855	8379	7.5	31	-F	2	C	2050	.46	.66			E
HUAN	11	2131	2200	2142	N22	W59	.865	8379	7.5	29	-N	2	C	2142	.31	.44			E
MCMA	11	2140	2155	2143	N22	W58	.857	8379	7.6	15	-F		C	2143	.52	1.00			E
HALE	11	2253	2315	2305	N21	W59	.864	8379	7.5	22	-N	2	C	2305	.83	1.60			
LOCK	11	2257	2320	2302	N18	W56	.834	8379	7.8	23	-F		C	2303	.80	1.40		10	J
CULG	11	2303E	2310D		N21	W59	.864	8379	7.5	7D	-B		P	2303	.83	1.60			C
LOCK	12	0050	0115	0055	N18	W60	.868	8379	7.5	25	-N		C	0055	.60	1.20		10	J
HALE	12	0052	0115	0054	N18	W60	.868	8379	7.5	23	-B	2	C	0054	.83	1.70			
	12	0210	0215	NO FLARE PATROL															
	12	0225	0300	NO FLARE PATROL															
CULG	12	0340	0351D	0343	N21	W60	.871	8379	7.7	11D	-N		P	0343	.21	.40			
CULG	12	0342	0351D		N27	E90	.999	8397	18.9	9D	1B		P	0351	.41				C
HALE	12	0342E	0415D	0352	N26	E88	.998	8397	18.8	33D	B	1	P	0352	.31				
BUCA	12	0555E	0715D		N24	W61	.883	8379	7.7	80D	1N		C	0620	1.66	3.60			E
BUCA	12	0550E	0833D		N26	W90	1.000	8373	5.5	163D	-B		C	0550	.44				
CAPS	12	0704E	0717D		N26	W90	1.000	8373	5.5	13D	-N	2							A
BUCA	12	0727E	0755D		N23	W61	.881	8379	7.7	28D	1N		C	0730	1.10	2.40			D
BUCA	12	0813E	0849D		N24	W61	.883	8379	7.8	36D	1N		C	0833	1.10	2.40			E
BUCA	12	0907E	0955D		N24	W61	.883	8379	7.8	48D	1F		C	0915	1.10	2.40			
MEUD	12	0946E	1018		N25	E90	1.000	8397	19.2	32D	-F			0955	.26				AC
CAPS	12	1035	1400D		N26	W90	1.000	8373	5.7	205D	1N	3							K
MEUD	12	1100	1117	1104	N25	E90	1.000	8397	19.2	17	-N			1104	.36				E
MEUD	12	1152	1218	1157	N25	E90	1.000	8397	19.2	26	-N			1157	.46				A
MEUD	12	1235	1243	1237	N25	W62	.891	8384	7.9	8	-N			1237	.41				E
CAPS	12	1238	1300D		N26	W60	.878	8384	8.0	22D	-N	3		1242	1.00			170	
ARCE	12	1405E	1440D		N24	W90	1.000	8373	5.8	35D	1N		P	1420	.39	2.20			
ARCE	12	1420E	1430D		N22	W66	.915	8384	7.6	10D	1N		P	1420	1.21	2.50			
LOCK	12	1517E	1535	1518U	N21	W90	1.000	8373	5.9	18D	-N		C	1518	.30	1.10		10	
LOCK	12	1548	1645	1555	N27	E85	.994	8397	19.0	57	-F		C	1555	.40	1.40		10	H
MEUD	12	1552	1612	1554	N25	E90	1.000	8397	19.4	20	-F			1554	.41				A
LOCK	12	1555	1630	1607	N21	W90	1.000	8373	5.9	35	-F		C	1607	.30	1.10		10	
LOCK	12	1617	1628	1621	N18	W70	.938	8379	7.4	11	-N		C	1621	.40	1.00		10	
MEUD	12	1618	1624	1620	N18	W70	.938	8379	7.4	6	-F			1620	.26				D
HALE	12	1658	1718	1712	N26	E79	.979	8397	18.6	20	-N	2	C	1712	.31				
MEUD	12	1700	1714	1705	N25	E85	.994	8397	19.1	14	-N			1705	.31				D
LOCK	12	1700	1717	1708	N27	E77	.973	8397	18.5	17	-N		C	1708	.60	1.90		10	H
LOCA	12	1702	1720	1710	N26	E78	.976	8397	18.6	18	-N		V	1710	.63				
LOCK	12	1735	1751	1742	N27	E77	.973	8397	18.5	16	-F		C	1742	.50	1.60		10	
MEUD	12	1802	1812D	1806	N25	W65	.911	8379	7.9	10D	-N			1806	.31				E
HUAN	12	1802	1816	1808	N24	W68	.929	8379	7.7	14	-F	2	C	1808	.31				E
LOCK	12	1802	1817	1807	N23	W68	.929	8379	7.7	15	-F		C	1807	.50	1.10		10	
HALE	12	1802	1822	1807	N24	W66	.917	8379	7.8	20	-N	1	C	1807	.57				
LOCK	12	2125	2200	2140	N28	E76	.969	8397	18.6	35	-F		C	2140	.50	1.60		10	H
LOCK	12	2215	2224	2219	N28	E74	.961	8397	18.5	9	-N		C	2219	.40	1.20		10	H
HALE	12	2215	2226	2218	N27	E79	.980	8397	18.9	11	-F	1	C	2218	.15				
CULG	12	2214	2223	2217	N28	E79	.980	8397	18.9	9	-N		C	2217	.31				C
LOCK	12	2318	2327	2321	N17	W72	.949	8379	7.6	9	-F		C	2321	.20	.50		10	
CULG	12	2318	2327	2320	N17	W77	.972	8379	7.2	9	-N		C	2320	.21				
CULG	12	2327	2339	2330	N20	W45	.727	8390	9.6	12	-N		C	2330	.52	.70			
LOCK	12	2327	2345	2332	N19	W45	.724	8390	9.6	18	-F		C	2332	.60	.90		10	
LOCK	13	0010	0035	0017	N30	E74	.962	8397	18.6	25	-F		C	0017	.50	1.50		10	HJ
SACP	13	0011	0022D	0019	N32	E81	.985	8397	19.1	11D	-F		P		1.05				
CULG	13	0015	0104D	0056	N26	E78	.976	8397	18.9	49D	1N		P	0056	.72				
MANI	13	0039	0055	0043	N27	E80	.982	8397	19.0	16	-F	2		0043	.36	.95			
LOCK	13	0045	0128	0105	N30	E74	.962	8397	18.6	43	-N		C	0105	.50	1.50		10	HJ
WEND	13	0533E	0549		N19	W50	.777	8390	9.5	16D	1N		V		3.09				
KIEV	13	0550E	0555D	0551	S22	E65	.931	8396	18.1	5D	1F		C	0551	3.61			55	D
BUCA	13	0712E	0724D		N19	W48	.756	8390	9.7	12D	-B		C	0716	.56	.80			
KANZ	13	0717E	0722D		N19	W47	.745	8390	9.8	5D	-F								D
ARCE	13	0730E	0735D		S19	E60	.894	8396	17.8	5D	1N		P	0735	2.13	4.20			H
BUCA	13	0724E	0752D		N21	W75	.964	8379	7.7	28D	1N		C	0734	.89				
KANZ	13	0730E	0747		N18	W85	.994	8379	6.9	17D	-N			0733			2.10		D
ARCE	13	0730E	1000D		N19	W80	.982	8379	7.3	150D	1N		C	0905	.97	3.10			K

SOLAR FLARES

JULY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 JULY	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
WEND	13	0750E	0800D		S19	E60	.894	8396	17.8	10D	-N								
BUCA	13	0750E	0802D		S19	E60	.894	8396	17.8	12D	-B		C	0751	.56	1.20			
MEUD	13	0751E	0756		S19	E59	.887	8396	17.8	5D	-N			0752	.21				CD
KANZ	13	0752E	0757		S19	E60	.894	8396	17.8	5D	-F								D
ARCE	13	0800E	1000D		S19	E60	.894	8396	17.8	120D	2N		C	0840	2.43	5.20			U
ARCE	13	0800E	0820D		N30	E80	.983	8397	19.3	20D	-F		C	0800	.29	.90			
BUCA	13	0816E	0830D		N21	W75	.964	8379	7.7	14D	-N		C	0818	.66				
MEUD	13	0855E	0858		N20	W80	.982	8379	7.4	3D	-N			0855	.31				CD
BUCA	13	0855E	0933D		N21	W75	.964	8379	7.7	38D	-N		C		.56				
MEUD	13	1129	1136	1130	N22	W80	.982	8379	7.5	7	-F			1130	.31				D
MEUD	13	1132	1138D	1136	N18	W52	.795	8390	9.6	6D	-N			1136	.21	.30			D
MEUD	13	1318	1330	1323	N22	W80	.982	8379	7.6	12	-N			1323	.26				D
KANZ	13	1323	1331		N21	W81	.985	8379	7.5	8	-F								D
MEUD	13	1331	1353	1336	S19	E54	.847	8396	17.6	22	-N			1336	.15	.30			D
MCMA	13	1333	1345	1336	S22	E57	.879	8396	17.8	12	-F		C	1336	.31	.60			
KANZ	13	1418E	1441		N19	W52	.797	8390	9.7	23D	-F								E
KANZ	13	1443	1450		N19	W52	.797	8390	9.7	7	-F								
MCMA	13	1523	1600		N20	W90	1.000	8379	6.9	37	-F		C						
MCMA	13	1616	1625	1617	N23	W80	.982	8379	7.7	9	-N		C	1617	.31				DH
HUAN	13	1617E	1628		N23	W83	.990	8379	7.5	11D	-N	1	P	1618	.36				
KANZ	13	1618E	1628D		N18	W82	.988	8379	7.5	10D	1N			1622			1.90		
MCMA	13	1625	1650	1633	N22	E90	1.000	8397	20.4	25	1N		C						A
CULG	14	0056	0110	0105	N18	W58	.851	8390	9.7	14	-N		C	0105	.31	.57			
BUCA	14	0610E	0701D		S32	W36	.764	8396	11.6	51D	1N		C	0621	1.66				E
BUCA	14	0615E	0825D	0637	N27	E67	.925	8397	19.3	130D	1N		C	0637	1.10				E
KHAR	14	0735E	0743	0740	N22	W90	1.000	8379	7.6	8D	2F		V	0740	2.06		4.40		D
BUCA	14	0841E	0907D		N27	E67	.925	8397	19.4	26D	-F		C	0847	.56				D
BUCA	14	0929E	1004D		N27	E67	.925	8397	19.4	35D	1F		C		1.10				D
BUCA	14	1109E	1130D		N26	E59	.870	8397	18.9	21D	-N		P	1114	1.10	2.00			E
LOCK	14	1710	1724	1716	N32	E70	.945	8397	20.0	14	-F		C	1716	.20	.40		10	
LOCK	14	1755	1920	1805	N29	E58	.867	8397	19.1	85	-F		C	1805	.40	.80		10	
MCMA	15	1133E	1205		S34	W53	.890	8394	11.5	32D	-F		C	1133	.52	1.00			E
KAND	15	1135E	1213		S29	W56	.892	8394	11.3	38D	-N		C						
SACP	15	1239	1247	1243	N25	E48	.771	8397	19.1	8	-N		C		.35	.44			
MCMA	15	1240	1246	1243	N25	E48	.771	8397	19.1	6	-B		C	1243	.31	.50			DH
MCMA	15	1915	1936	1924	N22	E32	.583	8397	18.2	21	-F		C	1924	.41	.50			E
MCMA	15	2005	2017	2010	N22	E32	.583	8397	18.2	12	-F		C	2010	.41	.50			E
LOCK	15	2034	2052	2039	N36	W60	.894	8385	11.4	18	-F		C	2039	.60	1.30		10	
HALE	15	2035	2045	2036	N39	W60	.901	8385	11.4	10	-F	1	C	2036	.41	.90			T
MCMA	15	2035	2047	2037	N38	W60	.898	8385	11.4	12	-N		C	2037	.31	.70			D
LOCK	15	2140	2202	2147	N36	W60	.894	8385	11.4	22	-F		C	2147	.60	1.30		10	
HALE	15	2143	2152	2146	N39	W60	.901	8385	11.4	9	-F	1	C	2146	.41	.90			T
MCMA	15	2144	2159	2146	N38	W61	.904	8385	11.3	15	-N		C	2146	.31	.70			D
LOCK	15	2230	2248	2238	N36	W60	.894	8385	11.4	18	-F		C	2238	.80	1.70		10	
MCMA	15	2234	2243D	2237	N38	W61	.904	8385	11.4	9D	-N		C	2237	.41	1.00			D
HALE	15	2331	2346	2339	N39	W60	.901	8385	11.5	15	-F	1	C	2339	.52	1.20			T
CULG	16	0227	0255D	0232	S35	W64	.949	8394	11.3	28D	1N		P	0232	.83	2.32			G
HALE	16	0228	0247	0233	S32	W58	.913	8394	11.8	19	-F	1	C	0233	.36				
MANI	16	0232	0249	0237	S31	W60	.922	8394	11.6	17	-N	3		0237	.46	.95			
MCMA	16	1715	1730	1723	S22	E75	.978	8401	22.3	15	-N		C	1723	.41	1.50			E
LOCK	16	1715	1733	1722	S19	E70	.955	8401	22.0	18	-F		C	1722	.40	1.10		10	
SACP	16	1716	1730	1722	S20	E66	.935	8401	21.7	14	-F		C		.69	1.27			
HALE	16	1718	1734	1722	S27	E69	.959	8401	21.9	16	-N	1	C	1722	.31				
MCMA	16	1722	1748	1725	N18	E25	.469	8398	18.6	26	-F		C	1725	.31	.30			DL
MCMA	16	1946E	1958		N33	E85	.993	8402	23.2	12D	-F		C	1950	.21				D
LOCK	16	2015	2045	2022	S19	E70	.955	8401	22.1	30	-F		C	2022	.20	.50		10	
LOCK	16	2300	2355	2320	N35	E79	.980	8402	22.9	55	-F		C	2320	.20	.60		10	H
SACP	17	0052	0126	0112	N35	E83	.990	8402	23.3	34	-F		C		.27				
	17	0600	0605	NO FLARE PATROL															
ARCE	17	0855	1000D		S24	E70	.960	8401	22.6	65D	-N		C	0902	.48	1.30			
CATA	17	0905E	0906D	0906	S25	E65	.937	8401	22.3	1D	-F			0906	.14			138	
HALE	17	1744	1747	1745	N22	E05	.312	8397	18.1	3	-F	1	C	1745	.10	.11			
LOCK	17	2138	2154	2145	S21	E60	.899	8401	22.4	16	-F		C	2145	.40	.80		10	
CULG	17	2143	2157	2146	S30	E60	.920	8401	22.4	14	-N		C	2146	.21	.50			
LOCK	17	2235	2257		N25	E08	.373	8397	18.5	22	-F		C		.60	.70		10	
HALE	17	2238	2250	2241	N25	E06	.363	8397	18.4	12	-F	2	C	2241	.72	.80			
HALE	18	0154	0207	0155	S25	E60	.909	8401	22.6	13	-N	2	C	0155	.31				
KAND	18	0803	0823		N24	W90	.999	8385	11.6	20	-B		C						
LOCK	18	1840	1913	1845	N23	W46	.744	8392	15.3	33	-F		C	1845	.50	.80		10	K
LOCK	18			1905										1905	.50	.80		10	K
SACP	18	1844	1912	1904	N21	W46	.738	8392	15.3	28	-F		C		.70	.85			
MCMA	18	1844	1913	1847	N22	W46	.741	8392	15.3	29	-B		C	1903	.41	.60			EK
MCMA	18			1903															
HUAN	18	1845	1900D		N22	W46	.741	8392	15.3	15D	-F	1	C	1848	.25	.31			D
HUAN	18	2014	2025	2020	N22	W47	.751	8392	15.3	11	-N	2	C	2020	.36	.44			

SOLAR FLARES

JULY 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
					APPROX.		CENTRAL	MCMATH	CMP										
	DATE 1966	START	END	MAX. PHASE	LAT.	MER. DIST.	DISTANCE	PLAGE REGION	DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	JULY																		
MCMA	18	2015	2032	2020	N22	W47	.751	8392	15.3	17	-B		C	2020	.41	.60			E
HALE	18	2016	2024	2017	N23	W46	.744	8392	15.4	8	-N	2	C	2017	.52	.80			
MCMA	18	2040	2049	2041	N35	E68	.936	8404	24.0	9	-F		C	2041	.21	.40			D
HALE	18	2326	2344	2333	S23	E49	.821	8401	22.7	18	-N	1	C	2333	.52	.90			
CULG	18	2326	2348	2333	S25	E51	.845	8401	22.8	22	-N		C	2333	.52	.95			
MANI	18	2331	2347	2335	S23	E50	.829	8401	22.7	16	-N	2		2335	.59	1.02			
LOCK	19	0100	0130	0106	S26	E50	.842	8401	22.8	30	-N		C	0106	.60	1.10		20	
HALE	19	0101	0111	0107	S24	E48	.817	8401	22.6	10	-N	2	C	0107	.21	.40			TLJ
CULG	19	0102	0134D	0104	S25	E51	.846	8401	22.9	32D	-B		C	0104	.41	.76			
LOCK	19	0125	0145	0133	S22	E45	.782	8401	22.4	20	-F		C	0133	.60	1.00		10	
LOCK	19	0130	0152	0137	S26	E50	.842	8401	22.8	22	-N		C	0137	.30	.50		20	
HALE	19	0251	0308	0253	S24	E47	.809	8401	22.6	17	-N	1	C	0253	.41	.70			TJ
MANI	19	0251	0310	0254	S24	E48	.817	8401	22.7	19	-N	2		0254	.41	.69			
CULG	19	0251	0315	0253	S27	E51	.853	8401	22.9	24	-N		C	0253	.21	.37			
HALE	19	0435	0458D	0440	S31	E28	.702	8401	21.3	23D	-N	1	P	0440	.31	.40			T
ARCE	19	0840	0855		N34	E55	.854	8404	23.5	15	-F		C	0840	.94	1.80			
KAND	19	0903	1000		S25	E42	.771	8401	22.5	57	-N		C						
ABST	19	1241	1248	1243	S24	E44	.783	8401	22.8	7	-F		C	1243	1.35	1.98		59	DBF
HUAN	19	1241	1255	1244	S26	E43	.785	8401	22.8	14	-N	2	C	1244	.52	.66			E
SALT	19	1247E	1310		S22	E40	.736	8401	22.5	23D	-N	3		1255	1.20	1.80		160	CE
HUAN	19	1300	1322	1304	S26	E43	.785	8401	22.8	22	-F	2	C	1304	.70	.90			E
MCMA	19	1302E	1313D		S27	E44	.799	8401	22.8	11D	-N		C	1309	.41	.70			EH
LOCK	19	1623	1629	1625	S25	E41	.762	8401	22.8	6	-F		C	1625	.20	.30		10	
HALE	19	1625	1629	1626	S31	E34	.746	8401	22.2	4	-N	2	C	1626	.10	.20			T
LOCK	19	1650	1715	1705	N34	E54	.847	8404	23.8	25	-F		C	1705	.40	.70		10	
MCMA	19	1652E	1712		N35	E56	.864	8404	23.9	20D	-N		C	1656	.41	.80			DL
HALE	19	1715	1732	1724	S28	E34	.723	8401	22.3	17	-F	1	C	1724	.36	.50			T
LOCK	19	1716	1735	1724	S24	E40	.748	8401	22.7	19	-N		C	1724	.70	1.10		10	
HALE	19	1946	2015	1955	S26	E32	.690	8401	22.2	29	-F	1	C	1955	.83	1.20			T
LOCK	19	1948	2004	1955	S24	E40	.748	8401	22.8	16	-F		C	1955	.50	.80		10	
MCMA	19	1950	2028	1955	S26	E38	.742	8401	22.7	38	-N		C	1955	1.03	1.50			FLK
LOCK	19	2006	2017	2010	S24	E40	.748	8401	22.8	11	-F		C	2010	.50	.80		10	
LOCK	19	2019	2027	2021	S24	E40	.748	8401	22.8	8	-N		C	2021	.40	.60		10	
HALE	19	2021	2027	2023	S28	E33	.714	8401	22.3	6	-F	1	C	2023	.31	.40			T
LOCK	19	2025	2029	2026	N34	E46	.785	8404	23.3	4	-N		C	2026	.30	.50		10	
MITK	20	0509E	0512D		S27	E35	.724	8401	22.8	3D	-N		P	0512	.72	1.10			
TACH	20	0509	0520	0512	S26	E37	.734	8401	23.0	11	-N		C	0512	.83	1.20		60	D
IKOM	20	0510E	0516D		S23	E30	.648	8401	22.5	6D	-F		V	0513	.41	.42			E
LOCK	20	1640	1750	1700	S19	W41	.730	8396	17.6	70	1N		C	1700	1.40	2.10		20	L
HALE	20	1645	1706	1658	S17	W43	.740	8396	17.5	21	-N	2	C	1658	.93	1.40			JSF
HUAN	20	1646	1725	1650	S18	W42	.735	8396	17.5	39	-N	2	C	1650	.56	.71			E
MCMA	20	1647	1716D	1652	S19	W41	.730	8396	17.6	29D	-B		C	1652	.62	.90			EL
LOCK	20	2110	2120	2115	N20	E77	.971	8405	26.7	10	-F		C	2115	.30	.90		10	
MCMA	20	2112	2120	2114	N22	E85	.994	8405	27.3	8	-F		C	2114	.31				D
HALE	20	2112	2123	2113	N23	E78	.975	8405	26.7	11	-F	1	C	2113	.21				
CULG	21	0046	0234	0117	S11	W45	.737	8396	17.7	108	-N		C	0117	.41	.60			CEF
LOCK	21	0050	0150	0115	S18	W44	.755	8396	17.7	60	-F		C	0115	.90	1.40		10	L
HALE	21	0219	0233	0224	N23	E74	.958	8405	26.6	14	-F	2	C	0224	.15				
CULG	21	0644	0657D	0655	N38	E64	.918	8408	26.1	13D	-F		P	0655	.52	1.25			C
MCMA	21	1345	1358	1350	N28	W34	.639	8397	19.0	13	-N		C	1350	.72	.90			E
CAPS	21	1349E	1355		N28	W28	.577	8397	19.5	6D	-F	3			.30	.40		150	
SACP	21	1521	1547	1529	N20	E72	.948	8405	27.0	26	1N		C		1.41	2.81			
CAPS	21	1523	1538		N15	E76	.967	8405	27.3	15	1N	3			1.20			170	
LOCK	21	1523	1543	1527	N21	E72	.948	8405	27.0	20	1N		C	1527	.90	2.30		20	
MCMA	21	1525	1543	1529	N21	E72	.948	8405	27.0	18	1B		C	1529	.77	2.50			E
LOCA	21	1525	1547	1531	N19	E73	.953	8405	27.1	22	1N		V	1531	.84				
HALE	21	1616	1630	1618	N24	E13	.389	8402	22.7	14	-N	3	C	1618	.26	.30			
MCMA	21	1755	1815	1756	N39	E58	.886	8408	26.1	20	-N		C	1756	.21	.50			DH
MCMA	21	1840	1902	1855	N39	E58	.886	8408	26.1	22	-N		C	1855	.31	.70			D
LOCK	21	1847	1900	1852	N37	E59	.887	8408	26.2	13	-F		C	1852	.40	.80		10	
HALE	21	1850	1900	1853	N39	E57	.880	8408	26.1	10	-N	2	C	1853	.31	.70			
HALE	21	1946	1955	1948	N24	E65	.908	8405	26.7	9	-N	2	C	1948	.36				
LOCK	21	2110	2145	2125	N22	W18	.414	8400	20.5	35	-F		C	2125	.50	.60		10	
HALE	21	2118	2155	2123	N20	W20	.417	8400	20.4	37	-F	2	C	2123	.21	.22			
LOCK	21	2208	2235	2218	N24	E11	.372	8402	22.7	27	-F		C	2218	.50	.60		10	
CULG	22	0421	0434	0428	N28	W39	.690	8397	19.3	13	-N		C	0428	.83	1.12			H
ARCE	22	0810E	0830D		N22	E06	.309	8402	22.8	20D	-N		C	0823	.85	.90			
ARCE	22	0935E	1000D		N18	E62	.882	8405	27.0	25D	1N		C	0945	1.24	2.60			
SACP	22	1235	1255	1247	N40	E90	.998	8413	29.3	20	-F		C		.27				
MCMA	22	1256	1308	1301	N28	W44	.739	8397	19.2	12	-F		C	1301	.31	.50			D
MCMA	22	1555	1616	1605	N38	E47	.808	8408	26.2	21	-F		C	1605	.41	.70			EL
MCMA	22	1707	1740	1723	N38	E47	.808	8408	26.2	33	-N		C	1723	.52	.90			E
LOCK	22	1710	1745	1725	N38	E45	.794	8408	26.1	35	-F		C	1725	.50	.80		10	
SACP	22	2043	2047D	2047	N33	E90	.999	8413	29.6	4D	1N		P		1.24				
LOCK	22	2043	2057	2048	N34	E90	.999	8413	29.6	14	1N		C	2048	1.20	4.40		10	H
MCMA	22	2044	2050D		N33	E90	.999	8413	29.6	6D	1F		P						A

SOLAR FLARES

JULY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 JULY	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
LOCK	22	2225	2245	2230	N37	E44	.781	8408	26.2	20	-F		C	2230	.50	.80		10	
HALE	23	0242	0302	0243	N38	E40	.755	8408	26.1	20	-B	2	C	0243	.83	1.30			
SIBE	23	0245E	0314D	0249	N36	E45	.783	8408	26.5	29D	1F		C	0249	1.49	2.70		59	E
HALE	23	0355	0410	0400	N37	E37	.725	8408	25.9	15	-N	2	C	0400	.41	.60			
BAKO	23	0542E	0603D		N40	E41	.775	8408	26.3	21D	1		C	0550	3.19	4.90		53	
TACH	23	0547	0601	0552	N37	E36	.718	8408	25.9	14	1B		C	0552	3.65	4.90	2.50	102	Z
CAPS	23	0631E	0725D		N38	E42	.771	8408	26.4	54D	-N	2			.80	1.40		160	
KAND	23	0755E	1003		N36	E39	.735	8408	26.3	128D	1B		C	0941		3.80			
CATA	23	0830E	1005D	0837	N37	E37	.725	8408	26.1	95D	1N			0837	1.36	2.00		188	
CAPS	23	0832E	0846D		N38	E42	.771	8408	26.5	14D	-F	3			.50	.90		150	
CAPS	23	0859E	0910D		N38	E42	.771	8408	26.5	11D	-F	3			.50	.90		150	
ARCE	23	0900E	0955D		N38	E39	.748	8408	26.3	55D	1B		C	0955	3.05	4.80			H
ARCE	23	0910			N25	E50	.787	8405	27.1		-N		C	0910	.52	.80			
ARCE	23	0930	0930D		N29	W50	.798	8397	19.6		-N		C	0930	.98	1.60			
KAND	23	0930	0937		N27	W56	.844	8397	19.2	7	-N		C						
CATA	23	0930E	0937D	0936	N26	W55	.834	8397	19.3	7D	-B			0936	.55	1.00		234	
KHAR	23	0930	1012	0945	N38	E35	.717	8408	26.0	42	2N		V	0945	4.54	6.80	2.10		O
KIEV	23	0930E	1020D	0940	N37	E40	.749	8408	26.4	50D	2F		C	0940	6.19	7.00		50	DI
ABST	23	0931	1005	0940	N38	E38	.740	8408	26.2	34	-F		C	0940	1.08	1.55		69	EJZ
CAPS	23	0935	0937D		N38	E42	.771	8408	26.5	2D	-N	1		0936	1.00	1.80		182	
HUAN	23	1328	1355		N38	E35	.717	8408	26.2	27	-F	1	C	1340	.52	.62			E
MCMA	23	1344E	1420D		N38	E33	.702	8408	26.0	36D	-B		C	1344	.83	.90			EL
MCMA	23			1419															
HUAN	23	1414	1432	1424	N38	E36	.725	8408	26.3	18	-F	2	C	1424	.52	.62			E
SACP	23	1417E	1425	1419	N38	E34	.709	8408	26.1	8D	-F		C		.78	.92			
LOCK	23	1537	1551	1540	N37	E31	.678	8408	26.0	14	-N		C	1540	1.10	1.50		20	
HUAN	23	1537	1552	1540	N37	E33	.694	8408	26.1	15	-N	2	C	1540	1.13	1.31			
SACP	23	1538	1546	1541U	N37	E31	.678	8408	26.0	8	-N		C		1.75	2.01			
CAPS	23	1539E	1600D		N37	E40	.749	8408	26.7	21D	1B	3		1541	2.50	3.70		200	C
MCMA	23	1542E	1600D		N38	E33	.702	8408	26.1	18D	-B		P	1542	.77	.90			E
LOCK	23	1641	1653	1644	N37	E31	.678	8408	26.0	12	-N		C	1644	1.00	1.40		10	
MCMA	23	1642	1649D	1646	N38	E33	.702	8408	26.2	7D	1B		C	1646	1.55	2.10			EH
HUAN	23	1642	1650	1644	N37	E32	.686	8408	26.1	8	-F	1	C	1644	.52	.59			E
HALE	23	1644	1710	1646	N37	E30	.671	8408	25.9	26	-B	1	C	1646	.93	1.30			
MCMA	23	1931	2007	1938	N21	W44	.714	8400	20.5	36	-N		C	1938	.41	.60			E
HALE	23	1932	2003	1941	N21	W44	.714	8400	20.5	31	-N	2	C	1941	.41	.60			EG
HALE	23	1940	1946	1942	N20	W57	.842	8400	19.5	6	-N	2	C	1942	.31	.60			
SACP	23	1940E	1950D	1948U	N20	W45	.722	8400	20.4	10D	-F		P		.53	.62			
HALE	23	2053	2309	2058	N27	W80	.981	8397	17.9	136	-F	2	C	2058	.21				
MCMA	23	2226E	2232D		N37	E90	.999	8413	30.7	6D	-F		P						
LOCK	23	2250	2320	2302	N39	E32	.702	8408	26.4	30	-F		C	2302	.50	.70		10	
MANI	23	2258E	2305D		N36	E30	.662	8408	26.2	7D	-N	2		2300	.74	1.00			
HALE	23	2344	2400	2353	N37	E27	.648	8408	26.0	16	-F	2	C	2353	.31	.40			TF
HALE	24	0028	0052	0037	N38	E28	.664	8408	26.1	24	-N	2	C	0037	.52	.70			TF
LOCK	24	0029	0046	0035	N40	E30	.696	8408	26.3	17	-N		C	0035	1.00	1.40		20	
HALE	24	0100	0120	0108	N38	E28	.664	8408	26.1	20	-N	2	C	0108	.41	.60			TF
HALE	24	0151	0202	0154	N40	E26	.669	8408	26.0	11	-N	2	C	0154	.36	.50			T
HALE	24	0156	0218	0207	N35	W06	.506	8404	23.6	22	-F	2	C	0207	.41	.50			TF
HALE	24	0402	0414	0407	N37	E18	.586	8408	25.5	12	-N	3	C	0407	.31	.40			T
HALE	24	0426	0439	0433	N36	E18	.574	8408	25.5	13	-N	3	C	0433	.41	.50			TF
HALE	24	0430	0501D	0437	N36	W07	.523	8404	23.7	31D	-N	3	P	0437	.31	.40			TE
MEUD	24	0628	0629D		N34	W05	.488	8404	23.9	1D	-F			0628	.26	.30			D
CULG	24	0646	0700D	0654	N19	W51	.783	8400	20.5	14D	-B		P	0654	.83	1.36			C
MEUD	24	0650E	0702D		N21	W50	.777	8400	20.5	12D	-N			0655	.52	.80			C
MEUD	24	0701	0702D		N37	E20	.598	8408	25.8	1D	-F			0701	.15	.20			D
MEUD	24	0734	0810		N35	W06	.506	8404	23.9	36	-N			0755	.52	.60			E
BAKO	24	0743E	0759D		N36	W11	.537	8404	23.5	16D	1		C	0749	1.83	2.23		50	D
CATA	24	0745E	0810D	0754	N35	W09	.515	8404	23.6	25D	-N			0754	.36	.40		178	
MEUD	24	0735	0802	0750	N38	E29	.671	8408	26.5	27	-B			0750	.52	.70			
ABST	24	0736	0810	0750	N39	E28	.673	8408	26.4	34	-F		C	0750	.81	1.07		66	F
CATA	24	0745E	0810D	0750	N38	E28	.664	8408	26.4	25D	-B			0750	.26	.30		224	
UCCL	24	0748E			N39	E30	.687	8408	26.6		-N		P	0748	.77	1.50			D
CAPS	24	0742	0752		N40	W30	.696		22.1	10	-B	3				.40		195	E
KAND	24	0820	0834		N27	W70	.939	8397	19.1	14	-F		P						
MEUD	24	0856	0858D		N35	E25	.612	8408	26.2	2D	-F			0856	.21	.30			D
KAND	24	0857	0900		N39	E27	.666	8408	26.4	3	-B		P						
MEUD	24	0944	0946	0944	N35	E18	.562	8408	25.8	2	-F			0944	.26	.30			D
MEUD	24	0958	1005	1001	N32	W05	.458	8404	24.0	7	-F			1001	.21	.22			D
MEUD	24	1023E	1035	1027	N35	E25	.612	8408	26.3	12D	-B			1027	.67	.90			
CAPS	24	1025	1041		N37	E26	.640	8408	26.4	16	-N	3		1032	.90	1.20		176	JL
CAPS	24	1056E	1110		N37	E26	.640	8408	26.4	14D	-N	3		1058	1.00	1.30		160	EH
CAPS	24	1216	1250		N40	E87	.995	8413	31.0	34	1N	3							
MCMA	24	1229E	1242D		N37	E90	.999	8413	31.3	13D	-N		C						AB
MCMA	24	1409	1500	1420	N37	E22	.611	8408	26.2	51	-F		C	1420	.31	.40			DH
SACP	24	1453	1510	1458	N24	E29	.555	8405	26.8	17	-N		C		1.41	1.49			
MEUD	24	1454	1504D	1458	N23	E30	.559	8405	26.9	10D	-B			1458	1.08	1.30			
MCMA	24	1454	1509	1458	N24	E29	.555	8405	26.8	15	-N		C	1458	.62	.80			EH
CAPS	24	1455	1505		N24	E29	.555	8405	26.8	10	-N	3		1500	1.50	1.80		170	G

SOLAR FLARES

JULY 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 JULY	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	— MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
MCMA	24	1700	1704	1701	N37	E22	.611	8408	26.4	4	-N		C	1701	.41	.50			EH
LOCK	24	1713	1719	1715	N37	E82	.986	8413	30.9	6	-F		C	1715	.30	1.00		10	H
LOCK	24	1755	1815	1804	N36	E82	.986	8413	30.9	20	-F		C	1804	.60	2.00		10	H
HUAN	24	1801E	1811		N34	E90	.999	8413	31.5	10D	-F	1	P	1805	.31				D
LOCK	24	1815	1834	1822	N37	E10	.547	8408	25.5	19	-F		C	1822	.40	.50		10	
MCMA	24	1818	1829	1823	N37	E10	.547	8408	25.5	11	-F		C	1823	.36	.40			EH
HUAN	24	1822	1826D		N36	E11	.537	8408	25.6	4D	-F	1	P	1825	.21	.22			E
MCMA	24	1900	1926D	1908	N37	E15	.569	8408	25.9	26D	-F		C	1908	.77	.90			EH
MCMA	24			1918										1918	.83	1.00			EH
HUAN	24	2018	2033		N22	E33	.589	8405	27.3	15	-N	1	P	2021	.31	.34			D
MCMA	24	2030E	2050		N22	E34	.601	8405	27.4	20D	-N		C	2032	.31	.40			DH
LOCK	24	2140	2157	2144	N38	E07	.552	8408	25.4	17	-N		C	2144	1.00	1.20		20	H
HUAN	24	2142	2150	2146	N37	E08	.540	8408	25.5	8	-N	2	C	2146	.37	.39			
MCMA	24	2143	2153	2144	N37	E10	.547	8408	25.7	10	-N		C	2148	.31	.40			DHK
MCMA	24			2148															
LOCK	24	2215	2244	2221	N35	E06	.506	8408	25.4	29	-F		C	2221	.50	.60		10	
LOCK	24	2310	2350	2325	N24	E24	.497	8405	26.8	40	-N		C	2325	.60	.70		20	
MANI	24	2320E	2336D	2324	N22	E23	.468	8405	26.7	16D	-N	2		2324	.52	.59			
IKOM	25	0105	0122D		N23	E30	.559	8405	27.3	17D	-F		V						D
IKOM	25	0106	0124D		N36	E18	.573	8408	26.4	18D	-F		V	0107	.41	.42			D
CULG	25	0334	0347	0335	N37	E18	.585	8408	26.5	13	-N		C	0335	1.03	1.20			F
CULG	25	0448	0459	0449	N37	E18	.585	8408	26.5	11	-N		C	0449	.83	.96			
CULG	25	0455	0555D	0503	N33	E22	.567	8408	26.9	60D	2B		P	0503	5.16	6.00			
TACH	25	0457	0528	0500	N39	E13	.585	8408	26.2	31	1B		C	0500	3.28	4.10	2.40	117	E
ABST	25	0459	0536	0501	N38	E14	.576	8408	26.3	37	1N		C	0501	2.61	3.16		82	F
MANI	25	0506E	0535	0506	N38	E16	.586	8408	26.4	29D	1B	3		0506	1.75	2.14			
MEUD	25	0737	0740	0738	N37	E15	.568	8408	26.4	3	-F			0738	.26	.30			D
KAND	25	0750E	0805		N37	E12	.554	8408	26.2	15D	1N		C	0758		2.20			
MANI	25	0753	0808	0757	N36	E15	.555	8408	26.5	15	-N	3		0757	.52	.63			
MEUD	25	0755	0805	0758	N38	E12	.567	8408	26.2	10	-N			0758	.62	.70			E
CATA	25	0800E	0810D	0800	N37	E13	.558	8408	26.3	10D	-N			0800	.33	.40		184	
MANI	25	0907E	0935	0915	N31	E75	.963	8413	31.0	28D	-F	1		0915	.62	1.45			
KAND	25	0910	1033		N37	E12	.554	8408	26.3	83	-N		P						
MEUD	25	1019	1023	1020	N38	E16	.586	8408	26.6	4	-N			1020	.21	.23			D
MEUD	25	0913E	0925		N35	E80	.981	8413	31.4	12D	-N			0913	1.24				C
KAND	25	0959	1019		N21	E23	.459	8405	27.1	20	-F		P						
KAND	25	1043	1057		N21	E23	.459	8405	27.2	14	-F		C						
KAND	25	1234	1253		N36	E10	.532	8408	26.3	19	-N		C						
MCMA	25	1302	1330	1305	N38	E08	.553	8408	26.1	28	-F		C	1305	.83	1.00			F
KAND	25	1305	1330D		N37	E12	.554	8408	26.4	25D	-N		C						
LOCA	25	1315E	1500	1315	N36	E07	.522	8408	26.1	105D	2N		V	1315	4.84	5.60			
SACP	25	1339	1402D	1358	N39	E11	.577	8408	26.4	23D	-N		P		.70	.75			
HUAN	25	1339	1405D		N38	E08	.553	8408	26.2	26D	-N	1	P	1400	1.39	1.47			E
CAPS	25	1340	1426		N38	E17	.591	8408	26.8	46	1N	3		1408	1.80	2.00		190	
MCMA	25	1340	1525	1403	N38	E05	.546	8408	25.9	105	1B		C	1403	1.65	2.10			FHK
MEUD	25	1351E	1351D		N37	E10	.546	8408	26.3		-N			1351	.41	.50			E
UCCL	25	1410E			N38	E08	.553	8408	26.2		1F		P	1410	1.55	2.50			E
LOCK	25	1515	1545U	1530	N22	E90	.999	8414	1.4	30U	-F		C	1530	.30	1.10		10	
LOCK	25	1620	1635	1625	N22	E19	.421	8405	27.1	15	-F		C	1625	.30	.30		10	
MEUD	25	1622	1629D	1623	N22	E20	.432	8405	27.2	7D	-N			1623	.31	.34			E
HALE	25	1623	1637	1627	N23	E17	.410	8405	27.0	14	-B	3	C	1627	.31	.34			TE
HALE	25	1623	1630	1626	N36	E60	.890	8413	30.2	7	-N	3	C	1626	.21	.50			T
LOCK	25	1623	1655	1635	N36	W27	.636	8404	23.7	32	-F		C	1635	.80	1.00		10	
HALE	25	1623	1708	1631	N36	W27	.636	8404	23.7	45	-N	3	C	1631	.31	.40			TF
SACP	25	1624	1646	1629	N36	W28	.644	8404	23.6	22	-F		C		.53	.59			
MEUD	25	1625	1629D	1628	N37	W25	.631	8404	23.8	4D	-N			1628	.46	.60			
MCMA	25	1626	1642	1635	N36	W28	.644	8404	23.6	16	-F		C	1635	.46	.60			EH
MEUD	25	1735	1738	1736	N36	E03	.514	8408	26.0	3	-N			1736	.21	.21			D
MCMA	25	1740	1840	1749	N36	E08	.525	8408	26.3	60	-F		C	1749	.77	.90			E
MCMA	25	1858	1915	1905	N38	E06	.548	8408	26.2	17	-N		C	1905	.62	.80			E
MCMA	25	1924	2035	1925	N38	E06	.548	8408	26.3	71	-B		C	1925	.62	.80			EVK
MCMA	25			1953										1953	1.03	1.20			EVK
LOCK	25	1950	2010	1957	N38	E06	.548	8408	26.3	20	-N		C	1957	.50	.60		10	J
MANI	26	0000E	0020	0002	N36	E05	.516	8408	26.4	20D	-F	1		0002	.52	.60			
IKOM	26	0003E	0010		N36	E07	.521	8408	26.5	7D	-F		V	0003	.62	.62			E
LOCK	26	0015	0105D	0038	N28	E06	.397	8408	26.5	50D	1N		C	0038	2.10	2.50		20	
MANI	26	0030	0106	0039	N36	E05	.516	8408	26.4	36	-N	2		0039	.90	1.10			
CULG	26	0033	0050D	0035	N38	E05	.545	8408	26.4	17D	1B		P	0035	2.48	2.76			F
VORO	26	0033E	0057D	0036	N38	E00	.540	8408	26.0	24D	1N		C	0036	2.07	2.50		65	EH
IKOM	26	0036	0058D		N36	E07	.521	8408	26.5	22D	1B		V	0036	1.86	2.20	1.58	115	E
SIBE	26	0040E	0134D	0045	N37	E05	.530	8408	26.4	54D	1F		C	0045	3.03	3.60		77	E
SACP	26	0057E	0110D	0105	N39	E04	.558	8408	26.3	13D	-F		P		.43	.46			
MANI	26	0151	0204	0154	N30	E70	.940	8413	31.3	13	-F	2		0154	.52	1.10			
MITK	26	0321	0338	0334	N35	E68	.934	8413	31.2	17	1F		C	0334	1.86				F
CATA	26	0714E	0717D	0715	N39	E06	.561	8408	26.8	3D	-N			0715	.14	.20		173	
BAKO	26	0623E	0640D		N34	E55	.851	8413	30.4	17D	1		C	0633	1.19	2.13		50	D
BAKO	26	0623E	0645D		N35	E58	.874	8413	30.6	22D	-		C	0633	1.00	1.84		50	D
ABST	26	0624	0803	0741	N35	E55	.854	8413	30.4	99	1N		C	0741	2.25	4.14		60	FJKLO

SOLAR FLARES

JULY 1966

OBSERVATORY	DATE 1966 JULY	START	END	MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. 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
CULG	26	0625	0656D	0628	N34	E55	.851	8413	30.4	31D	1B		P	0628	2.27	4.40			CFS
CAPS	26	0626E	0709		N34	E56	.858	8413	30.5	43D	1B	3		0631	1.50	2.70		230	CEJ
CATA	26	0628E	0745D	0630	N35	E55	.854	8413	30.4	77D	1B			0630	1.52	3.00		263	
MANI	26	0631E	0641D	0634	N29	E59	.870	8413	30.7	10D	-N	1		0634	.93	1.70			
ONDR	26	0631E	0652D		N35	E55	.854	8413	30.4	21D	1B		V	0644			1.40		
KIEV	26	0632E	0725D	0645	N34	E59	.879	8413	30.7	53D	1N		C	0645	2.58	4.00		60	EI
MITK	26	0644E	0726D		N35	E53	.839	8413	30.3	42D	-B		C	0645	.72	1.40			E
KHAR	26	0648E	0732D	0655	N33	E51	.818	8413	30.1	44D	2F		V	0649	3.40	6.80	1.80		EH
MEUD	26	0716E	0755D	0744	N33	E53	.833	8413	30.3	39D	1N			0744	1.29	2.30			
KAND	26	0722E	0815		N31	E56	.851	8413	30.5	53D	1N		C	0736		2.90			
KHAR	26	0736	0800D	0746	N36	E51	.828	8413	30.1	24D	2N		V	0746	5.67	10.70	2.10		EHJ
ARCE	26	0738E	0815		N35	E55	.854	8413	30.4	37D	1N		C	0738	2.69	5.10			K
ARCE	26	0800E			N29	E88	.997	8414	1.9		-N		C	0800	.33	1.60			
KAND	26	0800	0839		N38	E07	.549	8408	26.9	39	-N		C						
MEUD	26	0811E	0815		N39	E05	.559	8408	26.7	4D	-F			0812	.15	.20			D
MEUD	26	0811	0818	0812	N30	W85	.993	8399	20.0	7	-N			0812	.21				
ARCE	26	0905E	0937D		N41	E05	.588	8408	26.8	32D	-N		C	0905	.33	.40			D
MEUD	26	0908E	0912	0909	N39	E04	.558	8408	26.7	4D	-N			0909	.26	.30			CD
BUCA	26	0909E	0939D		N40	E03	.571	8408	26.6	30D	-B		P	0910	.56				D
BUCA	26	0915E	1026		N36	E01	.511	8408	26.5	71D	-N		C	1016	1.10	1.30			E
BUCA	26	0938E	0949D		N36	E01	.511	8408	26.5	11D	-F		C	0940	.56	.60			D
MEUD	26	0939E	0942D		N36	E03	.512	8408	26.6	3D	-N			0939	.26	.30			CD
KAND	26	0939	0943		N35	E01	.496	8408	26.5	4	-N		C						
KAND	26	1012	1021		N35	E01	.496	8408	26.5	9	-N		C						
KAND	26	1019	1029		N35	E01	.496	8408	26.5	10	-N		C						
BUCA	26	0837E	1024D		N25	E85	.993	8414	1.7	107D	-B		P	0911	2.76				A
ARCE	26	0905	1005D	0910	N23	E90	.999	8414	2.1	60D	2B		C	0910	1.89	10.70			
CAPS	26	0907E	0935		N23	E90	.999	8414	2.1	28D	1N	3		0907	2.50			170	C
MEUD	26	0908E	0950		N22	E90	.999	8414	2.1	42D	-B			0910	.77				C
KIEV	26	0908	1010D	0913	N21	E90	.999	8414	2.1	62D	1N		C	0913	3.09			60	H
KAND	26	0908	1025		N21	E90	.999	8414	2.1	77	2B		C						
KHAR	26	0916E	1001D		N24	E90	.999	8414	2.1	45D	2N		V	0940			3.00		H
CATA	26	0920E	1005D	0920	N20	E85	.994	8414	1.8	45D	-N			0920	.59			164	
KHAR	26	1003E	1022D		N24	E90	.999	8414	2.2	19D	2N		V	1003			2.60		Q
BUCA	26	1102E	1206D		N36	E01	.511	8408	26.5	64D	-B		P	1115	.66	.80			EK
KAND	26	1125	1150		N35	E06	.503	8408	26.9	25	-N		C						
KAND	26	1155	1330		N21	E90	.999	8414	2.2	95	2N		C						
BUCA	26	1206E	1229D	1206	N37	W37	.723	8404	23.7	23D	-N		P	1206	.37	.60			CEG
KAND	26	1216	1247		N35	W01	.496	8408	26.4	31	-N		C						
BUCA	26	1216	1305D		N36	E01	.511	8408	26.6	49D	-N		P	1220	.37	.40			
MEUD	26	1229E	1229D		N30	E90	.999	8414	2.3		-N			1229	.62				
SACP	26	1427	1440	1436	N37	W02	.526	8408	26.5	13	-F		C		.79	.87			
CAPS	26	1431	1438		N35	E02	.496	8408	26.8	7	-F	3		1434	.50	.60		150	
SACP	26	1444	1518	1454	N25	E83	.989	8414	1.8	34	-N		C		.27				
LOCK	26	1610	1625	1616	N37	W04	.529	8408	26.4	15	-N		C	1616	.40	.50		10	H
HUAN	26	1611	1621	1615	N37	E02	.526	8408	26.8	10	-F	2	C	1615	.37	.39			
MCMA	26	1613	1620	1616	N37	W03	.527	8408	26.5	7	-N		C	1616	.31	.40			DH
HALE	26	1614	1620	1617	N37	W01	.526	8408	26.6	6	-N	3	C	1617	.41	.50			E
HALE	26	1723	1736	1733	N35	W39	.727	8404	23.8	13	-F	3	C	1733	.21	.30			
SACP	26	1736	1804	1740	N26	E82	.986	8414	1.9	28	-F		C		.88				
HALE	26	1925	1950	1935	N36	W42	.757	8404	23.7	25	-N	2	C	1935	.41	.60			TL
MCMA	26	1927	1942D		N37	W43	.771	8404	23.6	15D	-F		C	1929	.41	.60			K
LOCK	26	1928	1948	1935	N36	W44	.774	8404	23.5	20	-F		C	1935	.40	.60		10	
HALE	26	1928	1949	1935	N36	W42	.757	8404	23.7	21	-F	2	C	1935	.31	.50			T
LOCK	26	2010	2035	2023	N23	W53	.809	8402	22.9	25	-F		C	2023	.30	.50		10	J
HUAN	26	2043	2103	2047	N25	W52	.804	8402	23.0	20	-F	2	C	2047	.25	.33			D
LOCK	26	2120	2134	2127	N36	W13	.544	8408	25.9	14	-F		C	2127	.20	.20		10	
LOCK	26	2215	2245	2225	S23	E22	.581	8411	28.6	30	-F		C	2225	1.10	1.30		10	J
SACP	27	0041	0100	0046	N26	E77	.970	8414	1.8	19	-F		C		.70	1.62			
MITK	27	0043	0101	0045	N23	E85	.993	8415	2.4	18	1N		C	0045	1.13				
MITK	27	0309	0321	0315	N23	E85	.993	8415	2.5	12	-F		C	0315	.93				
BUCA	27	0725E	0834D		N36	E54	.849	8413	31.4	69D	-F		C	0738	.75	1.40			
MEUD	27	0731	0735		N23	E75	.962	8414	1.9	4	-N			0732	.31				
BUCA	27	0731E	0738D		N24	E74	.957	8414	1.9	7D	-B		C	0732	.19				EJ
KAND	27	0732	0739		N24	E76	.966	8414	2.0	7	-N		P						
ARCE	27	0733E	0738D		N23	E75	.962	8414	1.9	5D	-F		P	0733	.59	1.60			
ARCE	27	0902E	1000D		N24	E90	.999	8415	3.1	58D	1N		C	0922	.39	2.20			
MEUD	27	0941	0951D		N37	W15	.566	8408	26.3	10D	-F			0947	.52	.60			
BUCA	27	0943E	1031D		N36	W13	.543	8408	26.4	48D	-B		C	0949	.85	1.00			EF
BUCA	27	0944E	0952D		N20	W30	.539	8412	25.2	8D	-F		C	0947	.19	.20			EG
BUCA	27	1026E	1053D		N43	W07	.617	8408	26.9	27D	-N		C	1034	.19	.20			D
BUCA	27	1031E	1041		N35	W23	.594	8408	25.7	10D	-N		P	1031	.37	.50			CD
BUCA	27	1147E	1235D		N36	E54	.849	8413	31.5	48D	1B		P	1158	1.12	2.20			EF
KAND	27	1154	1213		N34	E51	.820	8413	31.3	19	-N		V						
SACP	27	1500	1519	1509	N21	E81	.984	8415	2.7	19	-F		C		.27				
LOCK	27	1510E	1523	1510U	N22	E79	.977	8415	2.6	13D	-F		C	1510	.30	.90		10	
LOCK	27	1510	1555	1525	N26	E90	.999	8415	3.4	45	-F		C	1525	.40	1.50		10	
LOCK	27	1600	1624	1610	N26	E90	.999	8415	3.4	24	-F		C	1610	.30	1.10		10	
LOCK	27	1600	1650	1610	N36	E51	.827	8413	31.5	50	-N		C	1610	1.20	2.00		20	
HUAN	27	1601	1645	1622	N37	E53	.845	8413	31.6	44	1F	1	C	1622	1.29	1.85			E
SACP	27	1602	1655	1622	N37	E50	.823	8413	31.4	53	-F		C		1.49	2.02			
HALE	27	1622	1630	1623	N40	E57	.880	8413	1.0	8	-F	2	C	1623	.52	1.10			
LOCK	27	1633	1653	1638	N24	E75	.962	8414	2.3	20	-F		C	1638	.20	.50		10	
HUAN	27	1734	1753	1744	N23	W12	.360	8405	26.8	19	-F	2	C	1744	.37	.37			
LOCK	27	1735	1753	1743	N22	W14	.366	8405	26.7	18	-N		C	1743	.50	.60		10	
HALE	27	1748E	1753		N23	W14	.378	8405	26.7	5D	-N	2	P	1748	.21	.22			
LOCK	27	1812	1835	1817	N25	E90	.999	8415	3.5	23	-F		C	1817	.40	1.50		10	
HALE	27	1815	1829	1821	N27	E87	.996	8415	3.3	14	F	2	C	1821	.31				
HUAN	27	1851	1859	1855	N23	E72	.947	8414	2.2	8	-N	2	C	1855	.37				
LOCK	27	1851	1905	1856	N24	E73	.953	8414	2.3	14	-N		C	1856	.70	1.60		20	H
HALE	27	1854	1901	1856	N25	E67	.920	8414	1.8	7	-B	2	C	1856	.41				T

SOLAR FLARES

JULY 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
LOCK	27	2012	2045	2017	N26	E69	.932	8414	2.0	33	1N		C	2017	1.20	2.80		20	
HUAN	27	2013	2036	2016	N24	E68	.925	8414	1.9	23	-N	2	C	2016	.70				E
HALE	27	2015	2032	2018	N26	E67	.921	8414	1.9	17	1N	2	C	2018	.88				T
MCMA	27	2017E	2035D		N25	E70	.937	8414	2.1	18D	F		C	2024	1.03	3.00			B
HALE	27	2030	2047	2039	N27	E87	.996	8415	3.4	17	F	1	C	2039	.21				T
LOCK	27	2033	2052	2040	N26	E90	.999	8415	3.6	19	-F		C	2040	.40	1.50		10	
LOCK	27	2051	2103	2054	N24	E73	.953	8414	2.3	12	-N		C	2054	.60	1.40		20	H
HUAN	27	2052	2100	2054	N23	E70	.937	8414	2.1	8	-F	2	C	2054	.31				D
HALE	27	2054	2301	2055	N23	E67	.919	8414	1.9	127	-N	2	C	2055	.36				T
LOCK	27	2238	2250	2243	N24	E73	.953	8414	2.4	12	-N		C	2243	.40	.90		10	
LOCK	27	2115	2215	2140	N25	E90	.999	8415	3.6	60	-F		C	2140	.50	1.90		10	
LOCK	27	2322	2327	2325	N24	E73	.953	8414	2.4	5	-F		C	2325	.50	1.20		10	
LOCK	27	2329	2336	2333	N24	E73	.953	8414	2.5	7	1N		C	2333	1.20	2.80		20	H
LOCK	27	2352	2358	2354	N24	E73	.953	8414	2.5	6	-F		C	2354	.30	.70		10	
LOCK	28	0005	0017	0008	N26	E90	.999	8415	3.8	12	-F		C	0008	.50	1.90		10	
LOCK	28	0037	0047	0041	N24	E69	.931	8414	2.2	10	-F		C	0041	.20	.50		10	
LOCK	28	0048	0125	0105	S24	E06	.501	8411	28.5	37	-N		C	0105	.70	.80		10	
LOCK	28	0101	0106	0103	N24	E69	.931	8414	2.2	5	-N		C	0103	.50	1.20		20	
HALE	28	0343	0357	0350	N27	E62	.888	8414	1.8	14	-N	1	C	0350	.21	.50			
HALE	28	0345	0353	0348	N22	E86	.995	8415	3.6	8	F	1	C	0348	.21				
MITK	28	0637	0646	0638	N23	E64	.899	8414	2.1	9	1N		C	0638	1.03	2.20			
MITK	28	0638	0715	0649	N26	E62	.887	8414	1.9	37	-N		C	0649	.83	1.70			D
BUCA	28	0642E	0734D		N27	E85	.993	8415	3.7	52D	-N		C	0651	.28				D
BUCA	28	0642E	0736D		N35	W07	.504	8417	27.8	54D	-F		C	0642	.19	.20			E
BUCA	28	0642E	0756D		N25	E61	.879	8414	1.9	74D	-B		C	0642	.66	1.30			BE
CATA	28	0645E	0645D	0645	N25	E64	.900	8414	2.1		-B			0645	.18			214	
KAND	28	0734E	1020		N23	E60	.869	8414	1.8	166D	-N		P						
BUCA	28	0802E	1259D		N25	E61	.879	8414	1.9	297D	-B		P	0813	.94	1.90			EK
MEUD	28	1110	1118	1112	N25	E62	.886	8414	2.1	8	-F			1112	.21	.40			
MITK	28	0647	0707	0651	N26	E90	.999	8415	4.0	20	1F		C	0651	.52				D
MEUD	28	0650	0658	0652	N25	E85	.993	8415	3.7	8	-N			0652	.21				D
BUCA	28	0745E	0842D		N36	W28	.642	8408	26.2	57D	-N		C	0802	.37	.50			E
BUCA	28	0802E	0821D		N40	W26	.665	8408	26.4	19D	-N		C	0809	.47	.60			E
BUCA	28	0933E	1011D		N26	W14	.415	8405	27.3	38D	-N		P	0947	.19	.20			CE
BUCA	28	0947E	1017D		N29	E05	.407		28.8	30D	-F		C	0951	.19	.20			EG
BUCA	28	0952E	1016D		N27	E85	.993	8415	3.8	24D	-N		C	1002	.19				
BUCA	28	1047E	1128D		N27	E85	.993	8415	3.8	41D	1N		P	1057	.47				
BUCA	28	1142E	1225D		N36	W28	.642	8408	26.4	43D	-B		P	1159	1.03	1.40			
MEUD	28	1155	1205	1157	N36	W30	.658	8408	26.2	10	-F			1157	.41	.50			E
MEUD	28	1155	1225	1209	N24	E82	.986	8415	3.6	30	-N			1209	.72				
KIEV	28	1200E	1220D	1206	N24	E83	.989	8415	3.7	20D	1N		C	1206	3.61			70	I
KAND	28	1200E	1224		N24	E82	.986	8415	3.7	24D	-N		P						
BUCA	28	1203E	1259D		N27	E85	.993	8415	3.9	56D	1B		C	1218	1.12				
HUAN	28	1206E	1233		N26	E85	.993	8415	3.9	27D	-F	1	P	1207	.62				E
SACP	28	1424	1437	1428	N23	E58	.852	8414	2.0	13	-N		P		.70	1.01			
MEUD	28	1427	1431D	1428	N22	E60	.868	8414	2.1	4D	-N			1428	.41	.70			
HUAN	28	1541	1551	1544	N23	E57	.844	8414	1.9	10	-F	1	C	1544	.25	.35			D
LOCK	28	1620	1632	1625	N25	E55	.830	8414	1.8	12	-F		C	1625	.40	.70		10	J
MCMA	28	1620E	1634		N23	E57	.844	8414	2.0	14D	-N		C	1624	.41	.80			EH
MCMA	28	1644	1713D		N23	E57	.844	8414	2.0	29D	-N		P	1700	.52	1.00			E
MCMA	28	1802E	1810D		N25	E58	.855	8414	2.1	8D	1N		P	1805	1.03	2.00			E
LOCK	28	1803	1812D	1812	N26	E56	.840	8414	2.0	9D	-F		C	1812	.70	1.30		10	
LOCK	28	1925	1935	1929	N23	E55	.827	8414	1.9	10	-F		C	1929	.60	1.10		10	
LOCK	28	1935	2025	1945	N36	W36	.707	8408	26.1	50	-N		C	1945	.90	1.30		10	
HUAN	28	1935	2036	1955	N37	W38	.730	8408	26.0	61	-N	2	C	1955	.45	.55			E
HALE	28	1939	1947	1941	N37	W32	.682	8408	26.4	8	-F	1	C	1941	.26	.40			
HALE	28	1941	2025	1956	N35	W36	.700	8408	26.1	44	-N	1	C	1956	.62	.90			
MCMA	28	1942E	1949D		N38	W39	.744	8408	25.9	7D	-N		P	1945	.52	.80			D
SACP	28	1948E	2040	1949	N36	W36	.707	8408	26.1	52D	-F		P		1.59	1.86			
MCMA	28	2210E	2240		N25	E55	.830	8414	2.0	30D	1B		P	2218	1.24	2.10			F
HUAN	28	2213	2231D		N34	E34	.675	8413	31.5	18D	2N	1	P	2224	5.21	5.91			
HALE	28	2216	0117	2332	N38	E32	.690	8413	31.3	181	2B	2	C	2332	7.32	10.20			
HALE	28			2252										2252	8.77	12.30			
MCMA	28	2218E	2342D	2240	N35	E35	.691	8413	31.6	84D	3B		P	2240	8.25	12.00			FIKLU
MCMA	28			2325										2325	6.19	12.00			FIKLU
SACP	28	2245E	2338D	2305	N37	E33	.690	8413	31.4	53D	3B		P		14.05	16.28			
MANI	28	2251E	0150	2310	N34	E29	.632	8413	31.1	179D	3B	1		2310	10.31	13.50			
MITK	28	2252E	0147D		N36	E32	.674	8413	31.4	175D	2F		C	2317	8.04	11.00			BU
IKOM	28	2320E	0110D	2345	N35	E30	.649	8413	31.2	110D	2B		V	2345	4.33	5.80	1.58	130	F
IKOM	29	0015E	0022D		N25	E33	.604	8413	31.5	7D	-F		V						E
MCMA	28	2310E	2315D		N25	E55	.830	8414	2.1	5D	-N		P	2311	.52	.90			E
LOCK	28	2316E	0003	2316	N24	E55	.828	8414	2.1	47D	2N		C	2316				20	
MCMA	28	2323	2330	2325	N25	E78	.974	8415	3.8	7	-F		P	2325					D
HALE	28	2325	2343	2327	N24	E73	.952	8415	3.5	18	-N	1	C	2327	.31				
HALE	29	0012	0028	0018	N25	E50	.784	8414	1.8	16	-N	1	C	0018	.41	.70			
MANI	29	0216	0235D	0219	N21	E41	.677	8414	1.2	19D	-F	1		0219	.19	.26			
HALE	29	0254	0307	0256	S22	W07	.475	8411	28.6	13	-N	1	C	0256	.41	.50			
MANI	29	0256E	0310D	0259	S21	W08	.464	8411	28.5	14D	-N	2		0259	.41	.48			
TACH	29	0256E	0314		S22	W07	.475	8411	28.6	18D	-N		C	0256	1.55	1.70	1.70	57	EGL
MITK	29	0405E	0608D	0432	N27	E73	.953	8415	3.6	123D	2F		C	0432	2.58				
CULG	29	0500	0510D	0509	N22	E47	.746	8414	1.7	10D	-B		P	0509	.93	1.35			
MITK	29	0502	0518	0509	N23	E47	.749	8414	1.7	16	-N		C	0509	.93	1.40			D
TACH	29	0505	0514	0509	N26	E52	.805	8414	2.1	9	1N		C	0509	2.37	3.90	1.90	63	EL
KIEV	29	0509E	0515D		N22	E49	.767	8414	1.9	6D	2N		P	0509	5.16	6.00		60	BI
WEND	29	0510E	0523		N23	E47	.749	8414	1.7	13D	1N		V		3.09				
MITK	29	0528	0552	0536	N23	E47	.749	8414	1.8	24	-N		C	0536	.83	1.20			D
CULG	29	0529	0607	0536	N24	E48	.762	8414	1.8	38	-N		C	0536	.62	.90			
WEND	29	0538E	0547D		N23	E47	.749	8414	1.8	9D	-N								

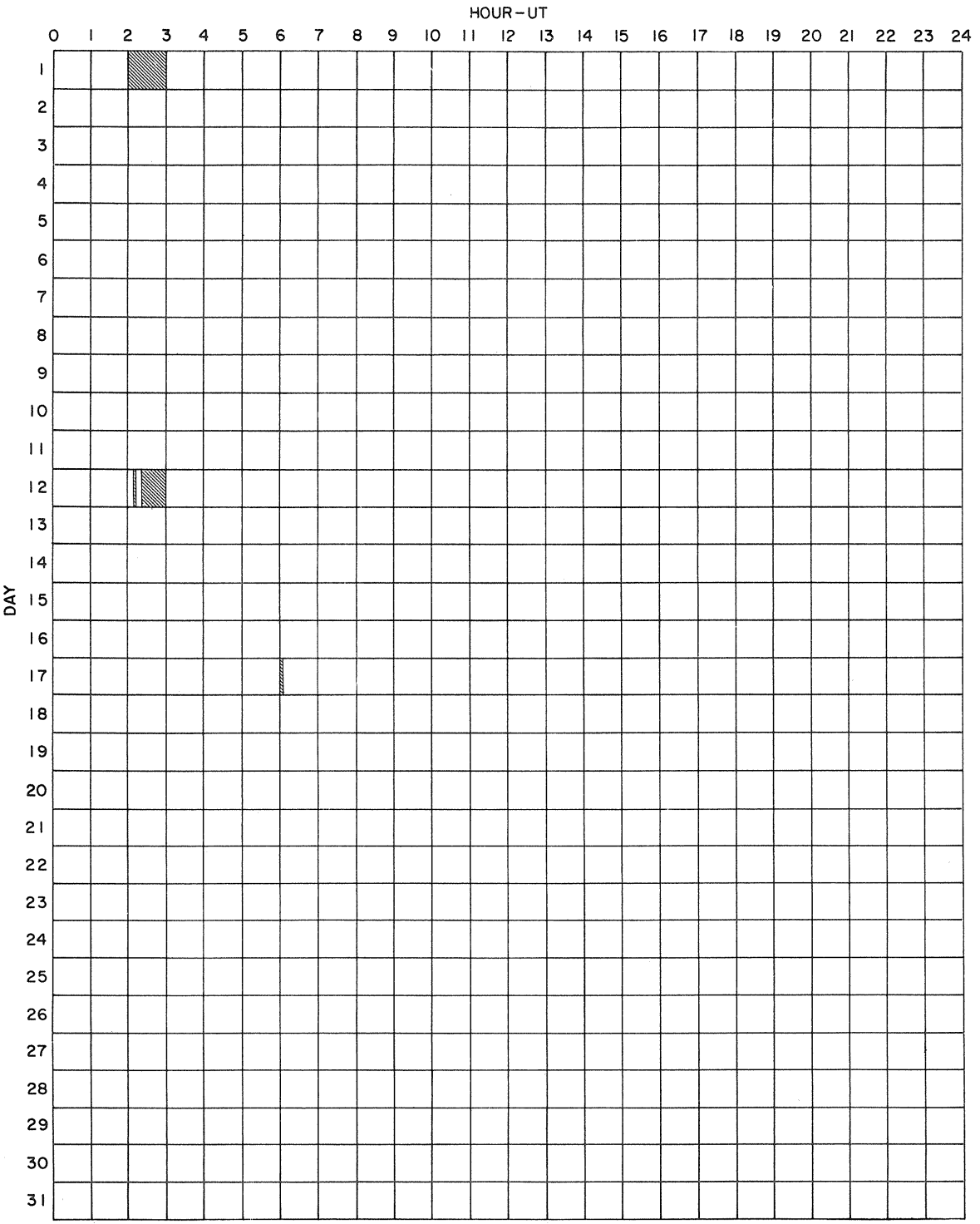
SOLAR FLARES

JULY 1966

OBSERVATORY	OBSERVED UT DATE	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
BAKO	29	0636E	0659D		N28	E70	.938	8415	3.5	23D	1		C	0645	1.64	3.91		55	
ABST	29	0643	0737	0646	N27	E71	.943	8415	3.6	54	1N		C	0646	.99	2.70		55	DJ
BUCA	29	0728E	1026D	0740	N27	E48	.771	8414	1.9	178D	1N		C	0740	1.31	2.00			EF
ABST	29	0737	0745	0739	N26	E50	.787	8414	2.1	8	1N		C	0739	1.89	3.10		73	D
UCCL	29	0738E			N24	E49	.772	8414	2.0		-N		P	0738	1.03				D
WEND	29	0738E	0752D		N26	E48	.768	8414	1.9	14D	-N								
KAND	29	0739	0746		N23	E48	.759	8414	1.9	7	1N		C	0742		4.10			
KIEV	29	0739	0750D	0740	N27	E53	.816	8414	2.3	11D	1N		C	0740	2.58	4.00		80	DI
BAKO	29	0741	0749		N27	E48	.771	8414	1.9	8	1		C	0743	1.37	1.87		60	
ARCE	29	0910E	1005D		N24	E47	.752	8414	1.9	55D	-N		C	0925	1.30	1.90			H
SALT	29	0922E	0933D		N25	E45	.734	8414	1.8	11D	-N	3		0930	1.20	1.80		175	C
BUCA	29	0850E	0950D		N28	E72	.948	8415	3.8	60D	-N		C	0920	.28				D
SALT	29	0922E	0933D		N28	E70	.938	8415	3.6	11D	1N	3		0930	1.50	4.50		175	C
BUCA	29	0958E	1018D		N37	W40	.745	8408	26.4	20D	-N		C	0958	.09	.10			EF
KAND	29	1015E	1047		N23	E46	.739	8414	1.9	32D	-B		C						
BUCA	29	1039E		1202	N25	E47	.755	8414	2.0		-B		P	1202	.94	1.40			E
BUCA	29	1049E	1112D		N28	E72	.948	8415	3.9	23D	-N		C	1103	.19				D
BUCA	29	1049E	1211D	1111	N37	W21	.600	8417	27.9	82D	-N		P	1111	.57	.70			EG
CAPS	29	1112E	1120		N35	W22	.585	8417	27.8	8D	-N	3			.40	.50		160	
BUCA	29	1110E	1149D	1110	S23	W12	.513	8411	28.6	39D	-N		P	1110	.75	.90			BEG
CAPS	29	1112E	1138D		S20	W15	.492	8411	28.3	26D	-F	3			.50	.60		155	E
BUCA	29	1121E		1202	N28	E72	.948	8415	3.9		1N		P	1202	.75				E
KAND	29	1144E	1205		N21	E47	.744	8414	2.0	21D	-N		C						
KAND	29	1200	1212		N26	E72	.948	8415	3.9	12	-N		C						
HUAN	29	1251E	1318		N25	E68	.926	8415	3.6	27D	-F	1	C	1300	.46				
MCMA	29	1516	1522D	1517	N24	E44	.721	8414	1.9	6D	-N		P	1517	.31	.40			EH
HUAN	29	1540	1554	1546	N23	E45	.728	8414	2.0	14	-F	1	C	1546	.37	.44			E
LOCK	29	1600	1620	1610	N24	E44	.721	8414	2.0	20	-N		C	1610	.80	1.10		20	
HUAN	29	1602	1611	1607	N23	E45	.728	8414	2.0	9	-F	1	C	1607	.25	.29			D
MCMA	29	1602	1613	1607	N24	E44	.721	8414	2.0	11	-N		C	1607	.41	.60			D
MCMA	29	1623	1640D	1630	N24	E44	.721	8414	2.0	17D	-N		C	1630	.31	.40			D
LOCK	29	1640	1710	1652	N25	E43	.714	8414	1.9	30	-F		C	1652	.50	.70		10	
UCCL	29	1653E	1707D		N23	E43	.706	8414	1.9	14D	-F		P	1653	1.03				E
SACP	29	1725E	1729E	1729U	N19	E90	1.000	8421	5.5	4D	-F		P		.43				
MCMA	29	2043	2112	2045	N27	E66	.915	8415	3.8	29	-N		C	2045	.52	1.20			D
CULG	29	2234	2244D	2235	N29	E40	.700	8414	1.9	10D	-N		P	2235	.62	.84			
CULG	29	2258	2304	2300	N26	E41	.697	8414	2.0	6	-N		C	2300	.41	.64			
CULG	29	2320	2330	2322	N25	E64	.900	8415	3.8	10	-N		C	2322	.41	.80			
CULG	29	2328	2337	2332	N28	E67	.921	8415	4.0	9	-N		C	2332	.52	1.12			
CULG	29	2353	0001	2355	N21	E50	.775	8414	2.7	8	-N		C	2355	.41	.64			
CULG	30	0100	0110	0104	N24	E61	.877	8415	3.6	10	-N		C	0104	.41	.80			
CULG	30	0215	0217	0216	N29	E39	.690	8414	2.0	2	-B		C	0216	.41	.56			
CULG	30	0600	0609	0603	N28	E38	.674	8414	2.1	9	-N		C	0603	.31	.39			
ABST	30	0626	0739	0629	N24	E47	.751	8414	2.8	73	-N		C	0629	1.35	1.98		63	DL
CAPS	30	0728E	0736		N19	E45	.717	8414	2.7	8D	-N	3		0732	.80	1.10			
BUCA	30	0741E	0751D		N21	E44	.711	8414	2.6	10D	-F		P	0743	.66	1.00			BEJ
BUCA	30	0741E	0931D		N25	E36	.637	8414	2.0	110D	-B		C	0743	.75	1.00			
BUCA	30	0745E	0830D		N37	W58	.877	8408	26.0	45D	-B		C	0754	.37	.80			D
BUCA	30	0824E	0850D		N19	E90	.999	8421	6.1	26D	-B		P	0847	.19				D
BUCA	30	1003E	1037D		N22	W40	.669	8405	27.4	34D	-N		P	1016	.57	.80			F
UCCL	30	1007E	1013D		N23	W43	.706	8405	27.2	6D	-N		P	1007	.52	1.00			E
BUCA	30	1015E	1127D		N25	E36	.637	8414	2.1	72D	-N		C	1105	.19	.20			E
BUCA	30	1103E	1127D		N19	E90	.999	8421	6.2	24D	-B		C	1105	.37				D
BUCA	30	1103E	1130D	1103	N28	E59	.867	8415	3.9	27D	-F		P	1103	.37	1.00			BE
MEUD	30	1129E	1132		N25	E55	.829	8415	3.6	3D	-F			1130	.15	.30			CD
BUCA	30	1134	1210	1145	N22	W40	.669	8405	27.5	36	-B		C	1145	.75	1.00			EF
CAPS	30	1138	1155		N20	W39	.650	8405	27.6	17	-F	3			.90	1.30			
ONDR	30	1138	1158		N20	W42	.685	8405	27.3	20	-N		V	1140			1.30		
MEUD	30	1141E	1142D		N20	W43	.697	8405	27.3	1D	-N			1141	.41	.60			C
BUCA	30	1201E	1221D		N28	E59	.867	8415	3.9	20D	-F		C	1212	.19	.40			D
HUAN	30	1303	1315	1308	N17	E88	.998	8421	6.1	12	-F	1	C	1308	.31				D
MEUD	30	1314E	1318		N17	E90	1.000	8421	6.3	4D	-F			1314	.26				
HUAN	30	1425	1439		N17	E88	.998	8421	6.2	14	-F	1	C	1427	.25				D
MEUD	30	1530	1546D	1540	N17	E90	1.000	8421	6.4	16D	-N			1540	.31				
HUAN	30	1831	1845	1834	N24	E29	.550	8414	1.9	14	-F	2	C	1834	.72	.76			E
SACP	30	1832E	1837D	1835U	N24	E29	.550	8414	1.9	5D	-F		P		.70	.73			
MCMA	30	1832	1840D	1836	N24	E29	.550	8414	1.9	8D	-N		C	1836	.52	.60			EV
CULG	30	2121	2158	2138	N21	W48	.754	8405	27.3	37	-N		C	2138	.52	.75			F
MCMA	30	2129	2150	2136	N21	W49	.764	8405	27.2	21	-N		C	2136	.41	.60			E
LOCK	30	2235	2300D	2255	N22	E37	.634	8414	2.7	25D	-N		C	2255	.50	.70		10	
CULG	30	2243	2303D	2255	N21	E38	.641	8414	2.8	20D	-N		C	2255	.52	.62			
CULG	30	2356E	0020	0001	N26	E52	.805	8415	3.9	24D	1B		C	0001	1.55	2.47			
HALE	31	0000	0008	0001	N27	E49	.779	8415	3.7	8	-N	1	C	0001	.93	1.50			
SACP	31	0000E	0009	0001	N27	E49	.779	8415	3.7	9D	1N		P		2.63	3.37			
MANI	31	0240E	0246D		N20	W54	.812	8405	27.1	6D	-F	1		0240	.31	.52			
MANI	31	0312	0321	0314	N21	E35	.605	8414	2.8	9	-F	2		0314	.26	.33			
ONDR	31	0648E	0700		N21	E32	.568	8414	2.7	12D	1F		V	0654			1.00		
CULG	31	0648	0701D	0649	N21	E32	.568	8414	2.7	13D	-B		C	0649	.62	.72			
MEUD	31	0817	0830	0820	N17	E74	.957	8421	5.9	13	-N			0820	.26				
CAPS	31	0819E	0825		N18	E65	.903	8421	5.2	6D	1N	2		0822	1.00			170	CG
KIEV	31	0819E	0830D	0820	N17	E79	.978	8422	6.3	11D	1N		C	0820	1.03			60	D
MEUD	31	1629E	1633		N21	E28	.517	8415	2.8	4D	-F			1630	.26	.30			C
LOCK	31	1700	1715	1705	N22	E26	.499	8414	2.7	15	-F		C	1705	.30	.30		10	
MCMA	31	1704	1715	1705	N22	E36	.621	8414	3.4	11	-N		C	1705	.36	.40			DH
MCMA	31	1845	1855	1846	N17	E70	.935	8422	6.0	10	-B		C	1846	.26	.70			D
MCMA	31	2102	2108	2103	N17	E70	.935	8422	6.1	6	-B		C	2103	.26	.70			D
LOCK	31	2104	2110	2107	N35	E45	.774	8415	4.3	6	-F		C	2107	.40	.60		10	
LOCK	31	2128	2140	2133	N21	E72	.947	8422	6.3	12	-F		C	2133	.40	1.00		10	
LOCK	31	2305	2317	2310	N24	W65	.905	8405	27.1	12	-F		C	2310	.60	1.30		10	

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

JULY 1966



Observatories included:

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

IIIy

SOLAR RADIATION MONITORING SATELLITE
X-RAY

AUGUST 1966

NRL

NRL SOLAR X-RAY DATA (PRELIMINARY)
OUTSTANDING EVENTS FOR AUGUST 1966

Date	Time	8-16	1-8	0-3	Comments
3	1655 1703	7.2×10^{-2}	4.6×10^{-3}	$<2.1 \times 10^{-5}$	Decreasing
4	1627 1632	2.8×10^{-2}	1.3×10^{-3}	$<1.7 \times 10^{-5}$	
6	2226 2234	1.1×10^{-2}	8.3×10^{-4}	3.3×10^{-6}	
7	0012 0023	1.5×10^{-2}	1.1×10^{-3}	1.2×10^{-5}	Increasing
17	0024 0035		6.8×10^{-2}	5.0×10^{-4}	Inc. and Dec.
20	1856 1904	1.4×10^{-2}	2.2×10^{-3}	6.5×10^{-6}	
20	2040 2053	1.0×10^{-2}	5.1×10^{-4}	3.1×10^{-6}	
21	1451 1503	8.2×10^{-3}	5.5×10^{-4}	6.7×10^{-6}	
21	2340 2351	9.7×10^{-3}	6.0×10^{-4}	8.4×10^{-6}	Decreasing
22	2124 2138	$>9.5 \times 10^{-3}$	$>4.7 \times 10^{-4}$	5.2×10^{-5}	Increasing
23	1206 1218	2.1×10^{-2}	1.6×10^{-3}	1.8×10^{-5}	
23	2239 2252	1.4×10^{-2}	1.1×10^{-3}	1.5×10^{-5}	Decreasing
24	1507 1516	1.3×10^{-2}	1.0×10^{-3}	1.6×10^{-5}	
24	1655 1703	1.5×10^{-2}	1.0×10^{-3}	$<6.6 \times 10^{-6}$	
24	2208 2222	1.4×10^{-2}	1.0×10^{-3}	2.3×10^{-5}	Increasing
25	1436 1447	1.6×10^{-2}	1.2×10^{-3}	2.3×10^{-5}	Decreasing
25	1954 2008	1.1×10^{-2}	7.4×10^{-4}	1.7×10^{-5}	Increasing
26	1740 1749	2.8×10^{-2}	1.6×10^{-3}	4.9×10^{-5}	
26	1924 1938	3.9×10^{-2}	1.8×10^{-3}	4.0×10^{-5}	
27	1854 1908	5.5×10^{-2}	3.4×10^{-3}	1.3×10^{-4}	
27	2038 2053	7.6×10^{-2}	4.9×10^{-3}	3.1×10^{-4}	Increasing
28	1641 1648	$>1.2 \times 10^{-1}$	$>3.0 \times 10^{-2}$	4.4×10^{-4}	Saturated
28	1824 1836	3.9×10^{-2}	4.3×10^{-3}	6.4×10^{-5}	Decreasing
28	2009 2022	1.6×10^{-2}	1.1×10^{-3}	9.0×10^{-6}	
29	0911 0915	1.1×10^{-2}	$>2.7 \times 10^{-3}$	2.4×10^{-4}	
29	1050 1102	1.1×10^{-2}	7.0×10^{-4}	4.1×10^{-6}	
29	1235 1246	2.0×10^{-2}	1.4×10^{-3}	1.5×10^{-5}	
29	1423 1430	2.8×10^{-2}	2.1×10^{-3}	2.4×10^{-5}	
29	1610 1617	1.3×10^{-2}	1.6×10^{-3}	1.7×10^{-4}	
29	1755 1805	1.2×10^{-2}	7.5×10^{-4}	6.6×10^{-6}	
29	1938 1953	2.0×10^{-2}*	1.5×10^{-3}	2.1×10^{-5}	Increasing
29	2125 2135	3.5×10^{-2}	3.4×10^{-3}	6.9×10^{-5}	
30	1352 1359	1.7×10^{-2}	6.3×10^{-4}	2.0×10^{-5}	Increasing
30	1540 1548	$>6.3 \times 10^{-2}$	7.4×10^{-3}	6.6×10^{-5}	Decreasing
31	0951 1003	3.3×10^{-2}	4.0×10^{-3}	8.5×10^{-5}	Decreasing
31	1134 1147	3.0×10^{-2}	3.6×10^{-3}	6.3×10^{-5}	Increasing
31	1321 1331	2.2×10^{-2}	1.9×10^{-3}	2.6×10^{-5}	
31	1839 1852	3.7×10^{-2}	5.8×10^{-3}	1.3×10^{-4}	Increasing

NRL SOLAR X-RAY DATA (PRELIMINARY)
DAILY AVERAGE VALUES FOR AUGUST 1966

Date	44-60	8-16	1-8
1	1.6×10^{-1}	7.5×10^{-3}	2.6×10^{-4}
2	1.5×10^{-1}	6.8×10^{-3}	1.9×10^{-4}
3	1.6×10^{-1}	6.5×10^{-3}	1.9×10^{-4}
4	1.5×10^{-1}	5.8×10^{-3}	1.8×10^{-4}
5	1.4×10^{-1}	6.1×10^{-3}	3.2×10^{-4}
6	1.5×10^{-1}	5.6×10^{-3}	1.9×10^{-4}
7	1.5×10^{-1}	7.4×10^{-3}	1.5×10^{-4}
8	1.3×10^{-1}	5.0×10^{-3}	1.5×10^{-4}
9	1.3×10^{-1}	5.4×10^{-3}	2.3×10^{-4}
10	1.15×10^{-1}	4.1×10^{-3}	1.2×10^{-4}
11	$.98 \times 10^{-1}$	3.2×10^{-3}	$.95 \times 10^{-4}$
12	$.95 \times 10^{-1}$	2.7×10^{-3}	$.92 \times 10^{-4}$
13	$.92 \times 10^{-1}$	2.7×10^{-3}	$.84 \times 10^{-4}$
14	$.92 \times 10^{-1}$	3.3×10^{-3}	$.49 \times 10^{-4}$
15	$.95 \times 10^{-1}$	2.7×10^{-3}	$.77 \times 10^{-4}$
16	1.5×10^{-1}	—	$.49 \times 10^{-4}$
17	—	—	—
18	1.6×10^{-1}	—	—
19	1.3×10^{-1}	3.5×10^{-3}	1.3×10^{-4}
20	1.4×10^{-1}	4.3×10^{-3}	1.3×10^{-4}
21	1.5×10^{-1}	6.6×10^{-3}	3.1×10^{-4}
22	1.7×10^{-1}	6.9×10^{-3}	3.3×10^{-4}
23	2.1×10^{-1}	11.1×10^{-3}	4.8×10^{-4}
24	2.2×10^{-1}	10.3×10^{-3}	3.8×10^{-4}
25	2.0×10^{-1}	8.5×10^{-3}	4.2×10^{-4}
26	2.4×10^{-1}	16.4×10^{-3}	11.2×10^{-4}
27	2.6×10^{-1}	19.2×10^{-3}	19.2×10^{-4}
28	2.6×10^{-1}	13.2×10^{-3}	12.8×10^{-4}
29	2.1×10^{-1}	12.2×10^{-3}	18.4×10^{-4}
30	2.0×10^{-1}	13.3×10^{-3}	4.1×10^{-4}
31	2.2×10^{-1}	26.2×10^{-3}	32.5×10^{-4}

NRL SOLAR X-RAY DATA (Preliminary)
Observing Times for August 1966

1	126	137	9	55	110	17	24	38		1840	1851
	311	319		239	251		1323	1333		2024	2038
	455	459		1539	1549		1505	1519		2208	2222
	1754	1804		1721	1734		1652	1702			
	1937	1949		1907	1916		1845	1848	25	1107	1117
	2122	2133		2056	2104		2026	2036		1250	1303
	2310	2319		2241	2252		2210	2224		1436	1447
2	56	106	10	25	29		2354	7		1624	1632
	240	249		210	223	18	1259	1303		1810	1821
	426	430		1509	1519		1436	1448		1954	2008
	1725	1731		1651	1704		1622	1633		2138	2152
	1907	1920		1837	1848		1809	1819	26	1037	1047
	2052	2103		2025	2033		1956	2005		1220	1233
	2241	2248		2211	2221		2140	2153		1406	1415
3	27	37		2356	9		2324	2338		1554	1601
	210	223	11	140	152	19	1224	1232		1740	1749
	355	409		1621	1634		1405	1419		1924	1938
	1655	1703		1807	1816		1552	1602		2109	2123
	1836	1847		1955	2001		1739	1746	27	1008	1015
	2022	2032		1440	1448		1930	1935		1150	1201
	2211	2217		2142	2148		2110	2123		1335	1343
	2357	5		2326	2337		2254	2309		1523	1532
4	141	153	12	110	124	20	41	49		1710	1718
	325	331		256	302		1156	1202		1854	1908
	1627	1632		1413	1417		1335	1348		2038	2053
	1807	1816		1551	1604		1520	1532		2226	2232
	1953	2002		1736	1748		1708	1717	28	940	945
	2142	2147		1925	1932		1856	1904		1120	1132
	2326	2335		2112	2120		2040	2053		1305	1316
5	110	124		2255	2307		2224	2238		1454	1500
	255	307	13	40	55	21	10	20		1641	1648
	1921	1934		1521	1534		1126	1131		1824	1836
	2110	2117		1706	1718		1306	1318		2009	2022
	2257	2304		1853	1903		1451	1503		2152	2204
6	41	53		2041	2049		1638	1647	29	911	915
	225	234		2225	2238		1825	1834		1050	1102
	1711	1720	14	9	25		2154	2209		1235	1246
	1852	1904		155	206		2340	2351		1423	1430
	2038	2047		1451	1503	22	1236	1248		1610	1617
	2226	2234		1636	1649		1420	1433		1755	1805
7	12	23		1824	1832		1608	1616		1938	1953
	155	206		2011	2019		1755	1803		2125	2135
	340	347		2156	2207		1940	1952	30	1020	1033
	1637	1649		2339	2355		2124	2138		1205	1216
	1821	1834	15	124	137		2310	2321		1352	1359
	2008	2018		1421	1434	23	1206	1218		1540	1548
	2156	2203		1605	1619		1350	1403		1724	1736
	2342	2353		1753	1802		1537	1547		1908	1923
8	126	140		1941	1949		1725	1733		2053	2106
	309	323		2126	2137		1910	1922	31	951	1003
	1608	1619		2310	2324		2054	2109		1134	1147
	1752	1804	16	54	107		2239	2252		1321	1331
	1938	1948		1352	1404	24	1136	1148		1510	1517
	2126	2132		1536	1548		1320	1333		1655	1702
	2311	2322		1722	1732		1507	1516		1839	1852
				1911	1917		1655	1703		2023	2036
				2056	2107						
				2240	2255						

SOLAR RADIATION MONITORING SATELLITE
X-RAY

SEPTEMBER 1966

NRL

OUTSTANDING EVENTS						
Date	Time		8-20	0-8	0.5-3	Comments
3	1014	1017	$>9.89 \times 10^{-3}$	4.32×10^{-3}	1.60×10^{-4}	Increasing
8	1623	1637	6.30×10^{-3}	5.23×10^{-4}	6.6×10^{-6}	
12	1052	1059	$>1.17 \times 10^{-2}$	$>1.22 \times 10^{-2}$	1.65×10^{-4}	
	1242	1248	$>4.48 \times 10^{-2}$	5.13×10^{-3}	4.96×10^{-5}	
	1422	1436	2.20×10^{-2}	1.59×10^{-3}	1.16×10^{-5}	
13	1536	1550	6.52×10^{-3}	7.87×10^{-4}	1.86×10^{-5}	
14	1138	1146	1.33×10^{-2}	9.86×10^{-4}	1.35×10^{-5}	
	1322	1335	7.45×10^{-3}	4.98×10^{-4}	9.4×10^{-6}	Increasing
17	1007	1013	1.18×10^{-1}	2.59×10^{-2}	——	Increasing
18	1450	1503	4.43×10^{-1}	$>1.0 \times 10^{-1}$	——	Inc. and Dec.

DAILY AVERAGE VALUES			
Date	44-60	8-20	0-8
3	1.35×10^{-1}	6.97×10^{-3}	2.30×10^{-4}
4	1.67×10^{-1}	1.10×10^{-2}	5.09×10^{-4}
6	1.65×10^{-1}	1.00×10^{-2}	1.18×10^{-3}
8	1.07×10^{-1}	3.48×10^{-3}	1.78×10^{-4}
11	1.14×10^{-1}	5.37×10^{-3}	2.33×10^{-4}
12	1.55×10^{-1}	1.07×10^{-2}	5.64×10^{-4}
13	1.16×10^{-1}	4.82×10^{-3}	1.64×10^{-4}
14	1.27×10^{-1}	5.42×10^{-3}	2.54×10^{-4}
15	1.13×10^{-1}	4.25×10^{-3}	1.36×10^{-4}
16	1.51×10^{-1}	9.75×10^{-3}	4.10×10^{-4}
17	2.18×10^{-1}	2.05×10^{-2}	1.46×10^{-3}
18	2.49×10^{-1}	2.69×10^{-2}	1.24×10^{-3}

Observing Times		
1	0920	0932
	1104	1117
	1251	1300
	1440	1445
2	1409	1413
	1555	1559
	1738	1752
	1923	1936
3	0822	0831
	1004	1017
	1151	1200
	1339	1345
	1524	1534
	1708	1722
	1852	1907
	2040	2045
4	0752	0801
	0934	0947
	1120	1131
	1308	1315
	1454	1503
	1638	1652
	1823	1837
	2009	2017
5	0724	0729
	0904	0917
	1049	1101
6	1207	1214
	1355	1400
	1539	1549
	1723	1736
	1908	1919
7	0804	0817
	0948	1001
	1136	1145
	1324	1329
	1509	1520
	1838	1849
8	0734	0747
	0918	0931
	1106	1115
	1254	1301
	1439	1449
	1623	1637
	1807	1820
	1709	1720
11	0748	0758
	0934	0945
	1122	1131
	1309	1317
	1452	1506
	1637	1650
12	0717	0731
	1052	1059
	1242	1248
	1422	1436
	1606	1621
	1753	1801
13	0648	0701
	0833	0845
	1021	1029
	1208	1216
	1353	1405
	1536	1550
	1722	1732
14	0802	0815
	0952	0959
	1138	1146
	1322	1335
	1506	1521
	1652	1702
15	0920	0928
	1108	1115
	1252	1304
	1436	1451
	1621	1633
16	0849	0858
	1037	1044
	1222	1233
	1406	1420
	1556	1604
17	0817	0828
	1007	1013
	1152	1203
	1336	1350
	1520	1532
18	0936	0943
	1121	1131
	1306	1319
	1450	1503
19	0905	0913
	1052	1101
	1235	1249
	1419	1434
	1607	1613
20	1020	1030
	1205	1219
	1348	1404
	1536	1544
21	0951	0959
	1136	1148
	1319	1333

SOLAR RADIATION MONITORING SATELLITE
X-RAY

APRIL MAY 1966

National Center for Space Studies, France
and Observatory of Paris-Meudon

Date	Time		44-60A	8-20A	0-8A	0-3A	Station	Remarks
April								
6	1019	1031	1.0×10^{-1}	5.3×10^{-3}	2.9×10^{-4}		ODG	V.A., Sunset
	1744	1754	1.2×10^{-1}		3.8×10^{-4}		PTA	
7	0949	1008	1.3×10^{-1}	7.2×10^{-3}	3.9×10^{-4}		ODG, BRZ	
8	0920	0932	1.5×10^{-1}	1.1×10^{-2}	5.8×10^{-4}		ODG	Burst starts 0926
10	0822	0845	1.5×10^{-1}	8.7×10^{-3}	5.8×10^{-4}		ODG, PTA	
11	0751	0802	2.2×10^{-1}	1.6×10^{-2}	1.8×10^{-3}	1.2×10^{-5}	ODG	Possible burst
12	0721	0731		9.7×10^{-3}	6.0×10^{-4}		ODG, PTA	Burst 0727
13	0702	0712	1.4×10^{-1}	8.7×10^{-3}	7.6×10^{-4}		BRZ	Burst 0707
	0837	0847		1.0×10^{-2}	6.4×10^{-4}		ODG	
14	0807	0817	1.2×10^{-1}	5.0×10^{-3}	1.7×10^{-4}		ODG	
	1716	1726		9.1×10^{-3}	2.1×10^{-4}		PTA	V.A., Sunset
	1904	1908		7.5×10^{-3}			BRZ	V.A., Sunset
15	0736	0757	1.0×10^{-1}	4.5×10^{-3}	1.1×10^{-4}		PTA	V.A.
16	0706	0720		4.3×10^{-3}	1.2×10^{-4}		ODG	V.A.
17	1546	1559		3.0×10^{-3}	1.3×10^{-4}		PTA	V.A.
	1730	1747		3.5×10^{-3}	1.4×10^{-4}		BRZ	
	1920	1933		3.5×10^{-3}	1.5×10^{-4}		ODG	
18	1517	1527		3.8×10^{-3}	1.7×10^{-4}		PTA	V.A.
	1706	1716		4.0×10^{-3}	2.1×10^{-4}		BRZ	
	1851	1901		5.8×10^{-3}	2.8×10^{-4}		ODG	
19	1448	1458	1.0×10^{-1}	3.3×10^{-3}	1.1×10^{-4}		PTA	V.A.
	1636	1647	1.1×10^{-1}	3.3×10^{-3}	1.7×10^{-4}		BRZ	V.A.
	1822	1832	1.0×10^{-1}	3.1×10^{-3}	1.4×10^{-4}		ODG	V.A.
20	1418	1428		5.3×10^{-3}	1.8×10^{-4}		PTA	V.A.
	1606	1616		4.8×10^{-3}	1.8×10^{-4}		BRZ	V.A.
	1752	1802		4.8×10^{-3}	1.8×10^{-4}		ODG	
21	1533	1543	1.3×10^{-1}	5.6×10^{-3}	2.9×10^{-4}		PTA	V.A.
	1721	1732	1.2×10^{-1}	5.3×10^{-3}	1.4×10^{-4}		BRZ	V.A.
	1907	1917	1.1×10^{-1}	3.6×10^{-3}	1.1×10^{-4}		ODG	
22	1503	1513	1.2×10^{-1}	5.0×10^{-3}	1.9×10^{-4}		PTA	V.A.
	1651	1702	1.3×10^{-1}	5.6×10^{-3}	2.2×10^{-4}		BRZ	V.A.
	1837	1847	1.2×10^{-1}	4.9×10^{-3}	1.7×10^{-4}		ODG	
23	1433	1445		6.4×10^{-3}	2.3×10^{-4}		PTA	V.A.
	1621	1632		4.9×10^{-3}	2.3×10^{-4}		BRZ	V.A.
	1807	1817		6.4×10^{-3}	2.5×10^{-4}		ODG	
24	1404	1414	1.3×10^{-1}	1.0×10^{-2}	4.1×10^{-4}		PTA	Burst 1410, V.A.
	1652	1702	1.5×10^{-1}	8.0×10^{-3}	2.5×10^{-4}		BRZ	V.A.
	1737	1747	1.4×10^{-1}	6.4×10^{-3}	3.0×10^{-4}		ODG	Burst 1742
25	1334	1344	1.5×10^{-1}	7.3×10^{-3}	4.1×10^{-4}		PTA	V.A.
	1522	1533	1.5×10^{-1}	7.6×10^{-3}	3.4×10^{-4}		BRZ	Burst 1528, V.A.
	1707	1719	1.5×10^{-1}	6.9×10^{-3}	3.4×10^{-4}		ODG	
26	0347	0421	1.4×10^{-1}	7.0×10^{-3}	2.1×10^{-4}		HMG, BRZ, PTA	V.A.
27	0329	0344	1.6×10^{-1}	6.8×10^{-3}	2.7×10^{-4}		BRZ	V.A., Sunrise
28	0309	0319	1.2×10^{-1}	6.3×10^{-3}	2.6×10^{-4}		PTA	V.A.
	1538	1548		4.8×10^{-4}	2.3×10^{-4}		ODG	
	1728	1738		8.0×10^{-4}	1.2×10^{-4}		HMG	Small burst 1732
29	0239	0249	1.1×10^{-1}	5.0×10^{-3}	2.2×10^{-4}		PTA	V.A.
	1653	1708		4.1×10^{-3}	1.3×10^{-4}		ODG, HMG	
30	1438	1447		3.6×10^{-3}	1.1×10^{-4}		BRZ	
	1623	1638		3.4×10^{-3}	1.5×10^{-4}		ODG, HMG	
May								
1	1559	1609		2.1×10^{-3}	1.4×10^{-4}		HMG	
2	1150	1200		2.4×10^{-3}	1.5×10^{-4}		PTA	V.A.
	1311	1349		2.1×10^{-3}	7.6×10^{-5}		BRZ	
	1524	1539		3.7×10^{-3}	1.3×10^{-4}		ODG	
3	1121	1131		2.6×10^{-3}	8.9×10^{-5}		PTA	V.A.
	1308	1318		3.1×10^{-3}	1.1×10^{-4}		BRZ	
4	1052	1102		3.7×10^{-3}	2.6×10^{-4}		PTA	V.A.
	1238	1248		4.0×10^{-3}	1.9×10^{-4}		BRZ	
	1426	1436		3.8×10^{-3}	9.6×10^{-5}		ODG	
5	1022	1032		3.7×10^{-3}	1.2×10^{-4}		PTA	V.A.
	1210	1219		2.8×10^{-3}	1.0×10^{-4}		BRZ	
	1356	1406		3.5×10^{-3}	2.5×10^{-4}		ODG	
6	1135	1148		3.4×10^{-3}	6.6×10^{-5}		PTA, BRZ	V.A.
	1510	1520		3.2×10^{-3}	9.4×10^{-5}		ODG	

SOLAR RADIATION MONITORING SATELLITE
X-RAY

MAY 1966

National Center for Space Studies, France
and Observatory of Paris-Meudon

Date	Time		44-60A	8-20A	0-8A	0-3A	Station	Remarks
7	1104	1114		3.3×10^{-3}	1.3×10^{-4}		PTA	V.A.
	1255	1305		2.7×10^{-3}	2.1×10^{-4}		BRZ	
8	1034	1045	8.3×10^{-2}	2.2×10^{-3}	1.1×10^{-4}		PTA	V.A.
	1413	1423	8.0×10^{-2}	2.2×10^{-3}			ODG	
9	1004	1014		4.2×10^{-3}	1.7×10^{-4}		PTA	V.A.
	1152	1202		3.5×10^{-3}	1.2×10^{-4}		BRZ	V.A.
	1330	1348		2.2×10^{-3}			ODG	
10	0935	0947		3.3×10^{-3}			PTA	V.A.
	1123	1133		3.2×10^{-3}	1.4×10^{-4}		BRZ	V.A.
	1309	1319		2.7×10^{-3}			ODG	
	1501	1511		2.8×10^{-3}			HMG	
11	1054	1104		3.9×10^{-3}	2.0×10^{-4}		BRZ	
	1239	1249		2.9×10^{-3}			ODG	
	1431	1440		3.3×10^{-3}	2.5×10^{-4}		HMG	
12	0835	0846		3.5×10^{-3}			PTA	V.A.
	1023	1033		3.0×10^{-3}	1.5×10^{-4}		BRZ	V.A.
	1209	1222		2.1×10^{-3}	1.0×10^{-4}		ODG	
	1357	1411		3.3×10^{-3}			HMG	
13	0953	1003		5.2×10^{-3}			BRZ	V.A.
	1140	1150		5.2×10^{-3}	2.2×10^{-4}		ODG	
	2040	2048	1.2×10^{-1}	4.7×10^{-3}	3.0×10^{-4}		HMG	Sunset
14	0736	0747		3.7×10^{-3}	2.0×10^{-4}		PTA	V.A.
	0924	0934		3.3×10^{-3}	1.5×10^{-4}		BRZ	V.A.
	1258	1311		2.4×10^{-3}	1.4×10^{-4}		HMG	
15	1940	1950	9.1×10^{-2}	4.2×10^{-3}	1.1×10^{-4}		(Not reported)	Sunset
16	0821	0835		3.5×10^{-3}	1.6×10^{-4}		PTA, BRZ	
	1158	1208		4.3×10^{-3}	1.7×10^{-4}		ODG	
17	0943	0953		2.6×10^{-3}	1.4×10^{-4}		BRZ	
	1126	1138		2.7×10^{-3}	8.4×10^{-5}		ODG, HMG	
18	0909	0920		3.1×10^{-3}	1.1×10^{-4}		BRZ	V.A.
	1055	1112		4.6×10^{-3}	1.3×10^{-4}		ODG, HMG	
19	0651	0701		6.4×10^{-3}	1.5×10^{-4}		PTA	V.A.
	0839	0851		6.9×10^{-3}	3.9×10^{-4}		BRZ	
	1027	1042		7.9×10^{-3}	3.4×10^{-4}		ODG, HMG	
20	0808	0818		9.6×10^{-3}	4.0×10^{-4}		BRZ	
21	0926	0935		1.9×10^{-2}	$>3.5 \times 10^{-4}$		ODG	
22	0522	0532		1.3×10^{-2}	5.8×10^{-4}		PTA	
	0710	0720		9.5×10^{-3}	5.4×10^{-4}		BRZ	V.A.
	0855	0908		9.9×10^{-3}	5.8×10^{-4}		ODG	V.A.
23	0826	0836		1.1×10^{-2}	5.5×10^{-4}		BRZ, ODG	V.A.
	1010	1028		9.9×10^{-3}	3.8×10^{-4}		ODG, HMG	
24	0613	0622		8.8×10^{-3}	5.3×10^{-4}		PTA	
	0754	0806		8.5×10^{-3}	4.2×10^{-4}		BRZ, ODG	
	0943	0958		9.5×10^{-3}	2.6×10^{-4}		HMG	
	2021	2034	9.1×10^{-2}	7.2×10^{-3}	3.5×10^{-4}		HMG	Sunset
25	0537	0547		8.0×10^{-3}	4.9×10^{-4}		PTA	V.A.
	0724	0734		9.1×10^{-3}	8.3×10^{-4}	7.0×10^{-5}	BRZ	Burst 0729, V.A.
	0915	0923		8.6×10^{-3}	$>3.5 \times 10^{-4}$	8.6×10^{-5}	HMG	
26	0507	0517		8.2×10^{-3}	2.8×10^{-4}		PTA	V.A.
	0654	0707		7.3×10^{-3}	3.0×10^{-4}		BRZ	V.A.
	1922	1941	1.4×10^{-1}	7.4×10^{-3}	3.6×10^{-4}		HMG, ODG	
27	0436	0446		8.0×10^{-3}	2.1×10^{-4}		PTA	V.A.
	0624	0634		8.8×10^{-3}	3.6×10^{-4}		BRZ	V.A.
	1858	1910		6.3×10^{-3}	1.9×10^{-4}		ODG	Sunset
28	0407	0417		5.3×10^{-3}	2.6×10^{-4}		PTA	V.A.
29	1758	1811	1.4×10^{-1}	4.2×10^{-3}	2.0×10^{-4}		ODG	
30	0307	0317		5.8×10^{-3}	2.5×10^{-4}		PTA	V.A., Sunrise
	0456	0506		4.9×10^{-3}	2.4×10^{-4}		BRZ	
	1723	1739	1.1×10^{-1}	3.6×10^{-3}	2.1×10^{-4}		HMG, ODG	
31	1652	1709	1.2×10^{-1}	4.2×10^{-3}	2.1×10^{-4}		ODG	

Station designations:

PTA Pretoria, Rep. of South Africa
BZV (or BRZ) Brazzaville, Rep. of Congo
ODG (or OGD) Quagadougon, Upper Volta
HMG Hamaguir, Algeria
LBN Lebanon (Near Beirut)
BTY Bretigny, France

IONOSPHERIC EFFECTS OF SOLAR FLARES

SHORT WAVE RADIO FADEOUTS — SUDDEN PHASE ANOMALIES
SUDDEN COSMIC NOISE ABSORPTION — SUDDEN ENHANCEMENTS OF SIGNAL
SUDDEN ENHANCEMENTS OF ATMOSPHERICS — SUDDEN FREQUENCY DEVIATIONS
SOLAR NOISE BURSTS AT 18 Mc/s

SEPTEMBER 1966

SEPT 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
01	0159	0209	0204	1		06	1-						MA	0159
01	1401	1402		5								1	MC RO	
01	1402	1403		5								1	MC RO	
01	1403	1404		5								1	MC RO	
01	1414	1415		1								1	MC	
01	1437	1438		1								1	MC	
01	1440	1442		1								1	MC	
01	1509	1511		5								1	RO MC	
01	1511	1514		1								1	RO	
01	1514	1518		1								1	RO	
01	1957	1959		1								1	MC	
01	2058	2059		5								1	MC HA	
01	2106	2107		5								1	MC HA	
02	0007	0041	0013	1					25				MA(NPG18-25)	0008
02	0206	0226	0208	1	S 1								MA	0206E
02	0207	0236	0212	1					28				MA(NPG18-28)	
02	0354	0406	0356	1	S 1-								MA	0351U
02	0356	0415	0358	1					15				MA(NPG18-15)	
02	0535	0750	0543	5	SL 3								OK AN BN HK MA ND SO SW TO	0541E
02	0544	0813	0559	1					99				MA(NPG18-170)	
02	0547	0630	0600	1						1			ND	
02	0550	0725	0555	1			2						MA	
02	0551		0555	5				1					A17 TA	
02	0551	0623	0558	1		30	1					1	RO	
02	0600	0602		1								1	RO	
02	0602	0606		1								1+	RO	
02	0606	0610		1								2	RO	
02	0825	0828		1								1+	RO	
02	0825	0900	0837	1		24	1						RO	
02	0825	0930	0835	1						1			ND	0541E
02	0828		0838	1				1					A17	
02	0835	0915		1	G 2								SO	
02	1353	1445	1400	1						1			ND	1359
02	1624	1630		5								1	MC BO(SERIES OF BURSTS)	
02	1752	1754		1								1	MC	
02	1834	1835		1								1	MC	
02	1907	2110		4								1	MC BO (NOISE STORM)	
02	2234	2236		4								1	MC BO	
02	2237	2239		4								1	MC BO	
03	0917	1000	0923	1		25	1						RO	
03	1329	1330		1								1	MC	
03	1345	1346		5								1	MC RO	
03	1444	1445		1								1	MC	
03	1543	1645	1600	1						1			ND	
04	0045	0205	0046	1					7				HA(WWVL20-7)	0042
04	0116	0127	0121	1					8				MA(NPG18-8)	
04	0118	0126	0122	1	G 1+								MA	
04	0212	0225	0216	5	S 1-								MA AN	
04	0212	0228	0216	1					18				MA(NPG18-18)	
04	0225	0226		1								1	MA	
04	0410	0556	0419	5					99				MA(NPG18-205) AN(NPM26-39)	0410
04	0411	0620	0412	5	S 3								MA AN HK NZ OK	
04	0412	0413		1								1	MA	
04	0413	0416		1								1+	MA	
04	0413	0435	0419	1				1					ND	
04	0416	0420		1								1+	MA	
04	0417	0500	0423	1						2			ND	
04	0420	0421		1								1+	MA	
04	0420	0427		5		28	2						MA ND	
04	0421	0538	0422	1		77	3						MA	
04	2142	2233	2153	1					22				MA(NPG18-22,WWVL20-18)	2140
05	0223	0246	0226	1	S 1-								MA	
05	0223	0251	0234	1					15				MA(NPG18-15)	
05	0303	0329	0311	1					15				MA(NPG18-15)	
05	0308	0330	0320	1	G 1-								MA	
05	1246	1400	1324	1			1						MC	
05	1750		1757	1					19				UM(NPM26-19)	1747
05	1800	1900U	1807	1						2			UM	1747
05	1923	1929	1925	1							03		BO(WWI8-0.3)	1923
05	2021	2028	2023	1							04		BO(WWI8-0.4)	2020
05	2023	2203	2035	1					43				HA(WWVB60-43,WWVL20-14)	
07	1436	1437		1								1	MC	
07	1453	1454		1								1	MC	
07	1455	1456		1								1	MC	
07	1500	1507		1								1	MC (SERIES OF BURSTS)	
07	1700	2130		1								1	MC (NOISE STORM)	
07	1702	1703		1								1	MC	
07	1809	1810		1								1	MC	
07	1813	1814		1								1	MC	
07	1906	1908		5								1	MC HA	

IONOSPHERIC EFFECTS OF SOLAR FLARES

SEPTEMBER 1966

SEPT 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
07	1909	1910		1								1	MC	
07	1955	1956		5								1	HA MC	
07	2000	2015		1								1	HA (SERIES OF BURSTS)	
07	2116	2119	2118	1							04		BO(WWI9-0.4)	2105
07	2204	2215		1								1	HA (SERIES OF BURSTS)	
07	2319	2320		1								1	HA	
08	0020	0021		1								1	HA	
08	0024	0025		1								1	HA	
08	0050	0051		1								1	HA	
08	0052	0053		1								1	HA	
08	1313	1324		1								1	MC (SERIES OF BURSTS)	
08	1340	1411		1								1	MC (SERIES OF BURSTS)	
08	1352	1353		1								1	RO	
08	1459	1502		5								1	MC RO	
08	1542	1543		1								1	MC	
08	1548	1549		1								1	MC	
08	1705	1706		1								1	MC	
08	1715	1716		1								1	MC	
08	1730	1731		1								1	MC	
08	1731	1732		1								1	MC	
08	1733	1735		1								1	MC	
08	1735	1736		1								1	MC	
08	1802	1803		1								1	MC	
08	1858	1900		1								1	MC	
08	1907	1909	1908	1							05		BO(WWI8-0.5)	1807
08	2101	2102		1								1	HA	
08	2131	2133		5								1	MC HA	
08	2259	2300		1								1	HA	
08	2310	2311		1								1	HA	
08	2312	2313		1								1	HA	
08	2320	2321		1								1	HA	
09	0956	1051		5								1	RO MA (NOISE STORM)	
09	1142	1145		1								1	RO	
09	1333	1335		1								1	MC	
09	1528	1531		1								1+	MC	
09	1600	1601		1								1	MC	
09	1642	1644		1								1	MC	
09	1711	1713		5								1	MC BO	
09	1713	1714		5								1	MC BO	
09	1717	1719		1								1	MC	
09	1719	1722		5								1	MC BO HA	
09	1724	1726		5								1	MC BO	
09	1726	1729		5								1+	MC BO	
09	1801	1802		5								1	BO MC	
09	1852	1853		5								1	BO MC	
09	1853	1855		5								1	BO MC	
09	1856	1858		5								1	BO MC	
09	1919	1920		5								1	BO MC	
09	1932	1933		5								1	BO MC	
09	1935	1939		5								1+	MC BO HA	
09	2013	2015		5								1	BO MC HA	
09	2017	2022		5								1	BO MC HA	
09	2036	2039		5								1	BO MC HA	
09	2042	2044		5								1	BO MC HA	
09	2045	2046		5								1	BO MC HA	
09	2104	2106		5								1	BO MC HA	
09	2126	2127		5								1	BO MC HA	
09	2151	2152		5								1	MC BO HA	
09	2221	2233		1								1	HA	
10	0606	0624	0608	5	S 1-								MA OK	0606E
10	1422	1423		5								1	MC RO	
10	1424	1425		1								1	MC	
10	1426	1427		5								1	MC RO	
10	1427	1428		1								1	MC	
10	1515	1516		5								1	MC RO	
10	1518	1521		5								1	MC BO RO	
10	1532	1533		1								1	MC	
10	1535	1536		1								1	MC	
10	1542	1544		4								1	MC BO	
10	1604	1608		4								1+	MC BO	
10	1614	1616		4								1	MC BO	
10	1622	1624		4								1	MC BO	
10	1624	1626		4								1	MC BO	
10	1626	1628		4								1	MC BO	
10	1637	1638		4								1	MC BO	
10	1639	1640		4								1	MC BO	
10	1720	1725	1722	1							04		BO(WWI8-0.4)	1718
10	1721	1726		5								2	MC BO HA	
10	1726	1728		4								1	MC BO	
10	1750	1752		4								1	MC BO	
10	1756	1757		4								1	MC BO	
10	1801	1805		4								1+	MC BO	
10	1805	1808		4								1	MC BO	
10	1819	1825	1824	1							05		BO(WWI8-0.5)	1813

IONOSPHERIC EFFECTS OF SOLAR FLARES

SEPTEMBER 1966

SEPT 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
10	1828	1852	1836	5	SL 1+								BO AN HU	1813
10	1844	1845		4								1	MC BO	
10	1848	1849		4								1	MC BO	
10	1857	1859		4								1	MC BO	
10	1931	1933		4								1	MC BO	
10	1934	1935		4								1	BO MC	
10	1941	1945		5								1+	MC BO HA	
10	1954	1955		5								1	MC BO HA	
10	2009	2010		5								1	BO MC HA	
10	2019	2021		4								1	BO MC	
10	2037	2038		5								1	BO MC HA	
10	2039	2041		5								1	BO MC HA	
10	2111	2114		5								1	BO MC HA	
10	2125	2210	2140	5	G 1-								MC AN	
10	2209	2212		5								1	MC BO HA	
11	1352	2245		5								1	MC BO (NOISE STORM)	
11	1512	1515		4								1	BO MC	
11	1515	1518		4								1	BO MC	
11	1752	1753		4								1	BO MC	
11	1803	1804		5								1	MC BO HA	
11	1807	1808		5								1	MC BO HA	
11	1811	1812		5								1	MC BO HA	
11	1857	1858		5								1	MC BO HA	
11	1903	1905		5								1	MC BO HA	
11	1933	1936		4								1	MC BO	
12	0320	0355	0345	1	G 1+								OK	0322
12	0930	1040	0950	1						1			ND	0925
12	0937	1030	0950	5				1					ND A17	0930
12	0950	1045	1035	3	G 2								SW SO	0955
12	1012	1111		1				1					RO	
12	1015	1017		1								1	RO	
12	1015	1055	1029	1		24	1						RO	
12	1020	1028		1								2	RO	
14	0048	0114	0051	1	S 1-								MA	
14	0053	0105	0055	1					12				MA(NPG18-12)	
14	0311	0326	0327	1					11				MA(NPG18-11)	0310
14	1008	1130	1020	5					99				SL(GBZ19-208)	1012
													UM(GBZ19-145)	
14	1010	1115	1020	5						3			UM ND	
14	1012	1023	1012	1									ND(++)	
14	1015	1045	1025	1				1					ND	
14	1015	1045	1033	1		36	2						ND	
14	1015	1055	1025	1						1			ND	
14	1016	1059	1035U	5	S 1								TO BN ND SW	
14	2205	2305	2210	3		**	20						BI AN	
14	2208	2348	2250	1					36				AN(NSS21-36,WWVL20-36)	
14	2220	2330	2240	1	S 2								AN	
14	2348	0003	2351	1		6	1-						MA	2338
14	2348	0008	2357	1				1-					MA	
14	2348	0009	2400	1					18				MA(NPG18-18)	
15	0100	0200	0115	1		**	17						AN	0047
15	0100	0215	0115	1	S 1-								AN	
15	0105	0200	0122	1					22				AN(WWVL20-22)	
15	0253	0318	0304	1					11				MA(NPG18-11)	0203
15	0434	0445	0439	1					12				MA(NPG18-12)	0436E
15	0552	0608	0556	1					16				MA(NPG18-16)	
15	1819	1823	1821	1							04		BO(WWI8-0.4)	1802E
15	2030	2150	2055	1		**	19						AN	2015
15	2030	2200	2100	1	S 2								AN	
15	2030	2210	2100	1					43				AN(WWVL20-43)	
16	0121	0209	0136	1					36				MA(NPG18-36)	0121
16	0132	0158	0134	1	S 1								MA	0121
16	0953	1030	1002	1					43				SL(GBZ19-43)	0914
16	1414	2115D		4								1	MC BO (NOISE STORM)	
16	1426	1428		1								1	MC	
16	1618	1621		1								1+	MC	
16	1623	1625		1								1	MC	
16	1625	1642	1630	1					50				SL(GBZ19-50)	1615
16	1718	1720		1								1	MC	
16	1755	1757		1								1	MC	
16	1757	1800		4								1	MC BO	
16	1800	2000	1830	1	G 1+								MC	1740
16	1805	2055	1835	1					18				HA(WWVL20-18)	
16	1823	1829	1827	1							07		BO(WWI8-0.7)	
16	2117	2118		5								1	HA MC	
16	2159	2201		1								1	HA	
16	2245	2246		1								1	HA	
16	2314	2316		1								1	HA	
17	0350	0419	0401	1					21				MA(NPG18-21)	
17	0950	1215	1014	1					99				SL(GBZ19-140)	0945
17	1237	2320		5								1	MC BO HA (NOISE STORM)	

IONOSPHERIC EFFECTS OF SOLAR FLARES

SEPTEMBER 1966

SEPT 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
17	1358	1400		4								1	BO MC	
17	1451	1453		4								1	MC BO	
17	1647	1648		4								1	MC BO	
17	2048	2050		5								1+	MC BO HA	
17	2224	2226		1								1	HA	
17	2357	2359		1								1	HA	
18	0400	0422	0417	5	G 1								OK MA ND	0404E
18	0402	0440	0411	1					54				MA(NPG18-54)	
18	0402	0510	0415	1						1			ND	
18	0406	0412	0409	1		6	1-						MA	
18	0850	0940	0905	1						1			ND	
18	0857	0915	0907	1					20				MA(NPG18-20)	
18	0859	0956	0923	1				1					MA	
18	1218	2400D		5								1	MC BO HA (NOISE STORM)	
18	1450	1545	1504	1						3-			UM	1452
18	1452	1534		1				1+					BO	
18	1452	1540	1458	5	S 2+								MC AN BA BE BO HU TR	
18	1453	1457	1454	1							03		BO(WWI9-0.3)	
18	1453	1615	1501	5					99				SL(GBZ19-248)	
													UM(GBZ19-173,NBA24-104)	
18	1454	1508	1456	1							80		BO(WWI19-8.0)	
18	1455	1535	1459	4		41	2						BO MC	
18	1458	1600	1508	1				2					LO	
18	1812	1813		4								1	MC BO	
18	2030	2032		5								1	MC BO HA	
18	2053	2055		5								1	BO HA	
18	2105	2106		5								1	BO HA	
18	2211	2215		1								1	HA	
18	2239	2241		1								1	HA	
18	2304	2306		1								1	HA	
18	2337	2339		1								1	HA	
19	0004	0006		1								1	HA	
19	0011	0014		1								1	HA	
19	0251	0259	0252	1							20		BO(WWI9-2.0)	0222
19	0942	1100	0956	5					99				SL(GBZ19-104)	0940
19	0942	1100	0956										UM(GBZ19-25)	
19	1155		1215	5					99				SL(GBZ19-252)	1203E
													UM(GBZ19-159,NBA24-65)	
19	1207	1255	1217	5						3			UM ND	
19	1208	1250	1215U	5				3					A17 ND	
19	1209	1232	1219	5	SL 1								MC BA BO BN BY HU SO SW TR	
19	1210	2400D		5								1	MC BO HA (NOISE STORM)	
19	1322	1325		1								1	MC	
19	1410	1413	1411	1							02		BO(WWI8-0.2)	
19	1410	1414		1								1+	MC	
19	1515	1548		1				1					BO	
19	1515	1600	1533	5						3			UM A1 A18	1503
19	1519	1625	1530	5					99				SL(GBZ19-215)	
													UM(GBZ19-138)	
19	1522	1526	1524	1							06		BO(WWI9-0.6)	
19	1523	1600	1532	5				2					A6 A1 A17 LO	
19	1523	1610	1530	5	S 2								MC AN BE BO HU SO TR WS	
19	1526	1557	1531	4		26	1						BO MC	
19	1604	1607		5								1	BO MC HA	
19	1756	1810	1800	1							05		BO(WWI11-0.5)	1641
19	1800	1825	1809	5	S 1+								MC BE BO HU WS	
19	1800	1845	1810	5					25				UM(GBZ19-25)	
19													HA(WWVL20-22)	
19	1800	1845	1815	1						3-			UM	
19	1850	1851		5								1	MC BO HA	
19	1851	1853		5								1	MC BO HA	
19	1853	1856		5								1	MC BO HA	
19	1915	2037	1925	1					7				HA(WWVL20-7)	
19	2013	2015		5								1	MC BO HA	
19	2021	2023		5								1	MC BO HA	
19	2107	2111		5								1	MC BO HA	
19	2111	2113		5								1	MC BO HA	
19	2114	2118		5								1	MC BO HA	
19	2125	2128		5								1	MC BO HA	
19	2134	2137		5								1	MC BO HA	
19	2140	2340	2149	5					99				HA(WWVB60-108,	2135
19													WWVL20-50) MA(NPG18-61)	
19													AN(WWVL20-58)	
19	2150	2230	2156	5	G 1								MC AN BO MA	
19	2207	2209		5								1	MC BO HA	
19	2210	2211		5								1	MC BO HA	
19	2211	2213		5								1	MC BO HA	
19	2250	2252		5								1	MC BO HA	
19	2254	2256		5								1	HA BO	
19	2256	2258		5								1	HA BO	
19	2345	0230	0040	5	S 3								AN MA	2338E
19	2350	0220	0027	1		**	26						AN	
20	0022	0045	0029	1					18				MA(NPG18-18)	0021

IONOSPHERIC EFFECTS OF SOLAR FLARES

SEPTEMBER 1966

SEPT 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
20	0257	0312	0302	5	G 1-								MA AN	0255E
20	0258	0335	0303	1					32				MA(NPG18-32)	
20	0331	0341		1								2	MA	
20	0335	0356	0341	1					22				MA(NPG18-22)	0332
20	0335	0359		1								1+	MA	
20	0340	0422	0344	5	S 1-								MA AN ND	
20	0356	0430	0402	1					25				MA(NPG18-25)	
20	0820	0850	0825	1					99				SL(GBZ19-115)	0823E
20	0825	0845	0828	1							++		ND(++)	
20	0825	0900	0830	1						1			ND	
20	0825	0905	0847	5	G 1-								MA ND	
20	1020	1130	1042	1					99				SL(GBZ19-115)	
20	1045	1150		1						2+			UM	1046
20	1047	1200	1100	1					46				UM(GBZ19-46)	
20	1050	1100	1052	1									ND(++)	
20	1100E	2400D		5								1	MC BO HA (NOISE STORM)	
20	1219		1223	1					50				SL(GBZ19-50)	1116
20	1245	1315	1257	1						1			UM	1229
20	1245	1330	1252	1					46				UM(GBZ19-46,NBA24-18)	
20	1247		1253	1				2					A17	
20	1448	1451	1450	1							02		BO(WWI11-0.2)	1447
20	1505	1509		1								1	MC	
20	1509	1510		1								1	MC	
20	1535	1536		1								1	MC	
20	1557	1559		4								1	MC BO	
20	1616	1710	1630	1						1			ND	1603
20	1650	1651		4								1	MC BO	
20	1655	1656		4								1	MC BO	
20	1700	1800	1722	5					99				SL(GBZ19-230)	1738E
													UM(GBZ19-53)	
													HA(WWVL20-36)	
20	1700	1845U	1735	1						3+			UM	1738E
20	1710	1720	1712	1							08		BO(WWI11-0.8)	1738E
20	1710	1920	1715	5	SL 3								MC BA BE HU	1738E
20	1712	1715		4								1	MC BO	
20	1715	1721		4								2	MC BO	
20	1904	1905		5								1	MC BO HA	
20	2040	2041		1								1	HA	
21	0025	0027		1								1	HA	
21	0925	1030	0937	5						3			UM ND	0930E
21	0925	1100	0932	1					99				SL(GBZ19-237)	
													UM(GBZ-108)	
21	0930	0950	0940E	5	G 2								BN BY SO SW TO	
21	0930	1015	0940	5						2+			LO A17	
21	0933	0955	0937	1		50	++						ND	
21	1413	2400D		5								1	MC BO HA (NOISE STORM)	
21	1616	1618		4								1	MC BO	
21	1733	1735		1								1	MC	
21	1823	1824		5								1	MC BO HA	
21	1851	1852		1								1	BO	
21	1852	1855		5								1	BO HA MC	
21	1924	1926		5								1	BO HA MC	
21	1929	1931		5								1	BO HA MC	
21	2005	2008	2007	1							07		BO(WWI8-0.7)	
21	2005	2030	2010	1	S 1-								MC	
21	2022	2024		5								1	BO HA MC	
21	2024	2026		5								1	BO HA MC	
21	2026	2028		5								1	MC BO HA	
21	2147	2150		1								1	HA	
21	2252	2256		1								1	HA	
22	0821	0910	0832	1					18				MA(NPG18-18)	
22	0826	0845	0831	1		4	1-						MA	
22	1611	1612		1								1	MC	
22	1618	1621		1								1	MC	
22	1633	1634		1								1	HA	
22	1724	1725		5								1	BO MC HA	
22	1737	1738		5								1	BO HA MC	
22	1739	1741		5								1	BO MC HA	
22	1741	1743		5								1	BO MC HA	
22	1933	1935		5								1	HA BO	
22	2050	2051		5								1	HA BO	
22	2203	2204		5								1	HA BO	
22	2250	2252		5								1	HA BO	
23	1550	1700	1604	1					39				UM(GBZ19-39)	1542
23	1553	1556	1555	1							02		BO(WWI8-0.2)	
23	1555	1617	1607	2	SL 1+								BE MC	
23	1555	1645	1603	1						2			UM	
23	1703	1704		4								1	BO MC	
23	2029	2030		1								1	HA	
23	2250	2251		1								1	HA	
24		0005	0002	1							02		BO(WWI8-0.2)	2355
24	0210	0221	0213	1	S 1-								MA	0210
24	0213	0231	0220	1					11				MA(NPG18-11)	

IONOSPHERIC EFFECTS OF SOLAR FLARES

IIIhh

SEPTEMBER 1966

SEPT 1966	UNIVERSAL TIME START	END	MAX	WIDE SPREAD INDEX	SWF TYPE IMP	IMPORTANCE ABS	SCNA	SEA	SPA	SES	SFD	BUR	STATIONS	KNOWN FLARE
24	1453	1454		1								1	MC	
24	1715	1717		1								1	MC	
24	1730	1735	1733	1							03		BO(WWI11-0.3)	
24	1907	1911	1909	1							02		BO(WWI8-0.2)	1908
24	1930	1940		5								1	MC HA(SERIES OF BURSTS)	
25	1307	1311		5								1	MC RO	
25	1322	1324		5								1	MC RO	
25	2254	2256		1								1	HA	
26	0938	1045	0943	1					99				SL(GBZ19-133)	0947E
26	0950	1015	1000	1				1					ND	
26	0950	1025	0955	1						1			ND	
26	1519	1555	1525	5					99				SL(GBZ19-133)	1520
													UM(NSS21-46,NPM26-42)	
26	1524	1534	1528	1						1			UM	
26	1525	1542	1530	5	SL 1-								MC AN BE HU	
26	2054	2055		1								1	HA	
26	2114	2115		1								1	HA	
27	0015	0030	0025	1	S 3								AN	
27	0015	0040	0025	1					36				AN(NSS21-36)	
27	0015	0040	0020	3		25	2						AN BI	
29	1242	1406		4								1	MC BO (NOISE STORM)	
29	2128	2130		1								1	HA	
29	2159	2201		1								1	HA	
29	2227	2228		1								1	HA	
29	2249	2250		1								1	HA	
30	0842	0848	0843	1									ND(++)	
30	1746	1748		4								1	BO MC	
30	1900	2300D		1								1	MC (NOISE STORM)	
30	2131	2133		5								1	MC BO HA	

** in the ABS column indicates value given in SCNA importance column is in db.
++ This detail of event not reported.

A17 = Durban, So. Africa By = Bearley, England

RIOMETER EVENTS

SEPTEMBER 1966

Great Whale River

30 Mc/s

SEPT. 1966	START UT	END UT	MAX UT	MAX. ABS. .1DB	NO. OF PKS
01	*				
02			2332		
06		2340		120	47
07	*	2234	1328	47	6
08	0226		1105		
11		1120		39	46
12	0710	0950	0823	10	2
12	1652		2301		
13		0704		5	3
14	0300		1517		
16		0930		25	16
16	2124				
17		1334	0315	10	7
18	1248	2324	1459	11	1
19	0815	1828	1530	7	3
19	2240		2343		
20		2302		40	7
21	0202	2010	1352	52	3
22	0346		0500		
23		2250		10	11
24	0807	1820	1652	3	1
25	0224	0823	0229	20	4
26	*		1707		
27		2236		30	13
28	0240	0532	0325	15	3
28	0752	2133	1725	20	5
29	*	2348	0414	30	16
30	0427		0444		
01		2103		35	17

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

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

NO DATA ZEROS FOR ALL VALUES OF A DAY.

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

OCTOBER 1966

DATE	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} (c/s)^{-1}$ PEAK	FLUX DENSITY MEAN	INT.	REMARKS
1	2800	OTTA	21	1737	1738.5	10	2.2	1.1		
	2800	OTTA	1	1737.7	1737.8	.5	4.0	2.0		
	2800	OTTA	21	1915	1950	145	1.2	0.6		
	2800	OTTA	20	2030	2035	25	1.2	0.6		
2	2800	OTTA	21	1240	1410	155	3.8	1.9		
	2800	OTTA	1	1251.2	1251.7	2.5	2.8	1.4		
3	2800	OTTA	1	1252.8	1253.5	2	1.2	0.6		
	2800	OTTA	26	1313	1316	7	-1.6	-0.8		
	2800	OTTA	20	1420	1455	120	2.4	1.2		
4	2800	OTTA	20	1250	1505	300	4.2	2.1		
6	10700	PENN	20	1538.2	1603.9	65	10.2	6.6		
	2800	OTTA	21	1525	1548	245	10.8	5.4		
	2800	OTTA	4	1537	1540.3	10	8.8	4.4		
	2700	PENN	20	1534	1542	166	10.9	3.7		
	2695	SGMR	20	1535	1540.3	65	12.3	5.0		
	1415	SGMR	20	1535	1541.8	20	8.3	3.0		
7	2800	OTTA	20	1455	1505	25	.8	0.4		
8	2800	OTTA	20	1258	1303	20	2.2	1.1		
9	2800	OTTA	20	1420 E	1530	85 D	1.8			
12	2800	OTTA	1	1906.5	1907	1	1.4	0.7		
	1415	SGMR	1	1907	1907.2	.7	6.4	1.5		
	606	SGMR	41	1902.1	1907.2	8.2	15.3	3.5		
	2800	OTTA	20	1930	2052	90	2.8	2.4		
13	2800	OTTA	21	1245	1715	330	8.2	4.1		
				1245	1450	230	6.2			
				1635	1715	75	8.2			
	10700	PENN	45	1335.4	1342.8	14.6	106.9	33.0		
	2800	OTTA	45	1335.5	1340.8	13	35.0	10.0		
				1335.5	1338	4.5	29.0			
				1340	1340.8	5	35.0			
				1345	1345.3	3.5	15.0			
	2700	PENN	45	1334.4	1340.6	15	45.8	9.0		
	1415	SGMR	40	1336.6	1340.6	12.4	38.1	8.0		
	960	PENN	20	1336.2	1340.5	13.8	5.3	1.2		
	606	SGMR	41	1333.3	1336.6	14.7	176.8	40.0		
	2800	OTTA	1	1600.5	1601	1.5	1.2	0.6		
	2800	OTTA	1	1652.5	1653.2	1	2.2	1.1		
	2800	OTTA	1	1730.8	1731	.5	1.2	0.6		
	2800	OTTA	20	1740	1743	10	2.4	1.2		
	486	WASH	1	1745			65.0			
	10700	PENN	3	1817.6	1818.3	2.3	62.8	21.6		
	2800	OTTA	21	1815	1832	35	3.2	1.6		
	2800	OTTA	4	1817.8	1818.5	1.5	8.7	5.8		
	2700	PENN	1	1817.3	1818.5	2				
	2800	OTTA	20	2000	2045	100	2.4	1.2		
	486	WASH	45	2019		2	85.0			
14	1415	SGMR	45	1152.9	1154.3	1.6	63.8	18.2		
	1415	SGMR	40	1155.9	1156.9	1.1	4.6	1.8		
	606	SGMR	40	1150.6	1153.5	7	30.6	7.9		
	2800	OTTA	22	1245	1308	100	13.0	6.5		
	10700	PENN	3	1428.9	1429.1	4.4	91.7	9.6		
	2800	OTTA	3	1428.7	1429	4	71.0	24.0		
	2700	PENN	3	1428.9	1429.2	10.5	63.8	10.5		
	1415	SGMR	3	1428.6	1429.3	4.4	30.7	13.7		
	960	PENN	3	1428.8	1429.4	.8	9.3	4.7		
	2800	OTTA	29	1433		7	6.6	3.3		
	1415	SGMR	29	1433	1433	4.4	3.3	1.7		
15	10700	PENN	20	1907.6	1924	64	14.4	7.2		
	8800	SGMR	21	1909	1926	28	9.2U	3.1U		
	8800	SGMR	1	1909.7	1910	1.3	4.6U	1.2U		
	4995	SGMR	21	1909	1926	29	7.4U	3.3U		
	4995	SGMR	1	1909.6	1910	1.4	7.4U	2.5U		
	2800	OTTA	21	1907	1922	45	7.4	3.7		
	2800	OTTA	1	1909.2	1910	4	5.2	2.6		
	2700	PENN	20	1909	1910.2	45	9.1	3.2		
	2695	SGMR	21	1904	1922	35	9.4	4.0		
	2695	SGMR	1	1909.5	1910	1.5	7.1	3.2		
	2800	OTTA	26	1952	2015	65	-3.2	-1.6		
16	2800	OTTA	20	1345	1423	70	4.6	2.3		
	486	WASH	3	1406			95.0			
	486	WASH	45	1550		3	150.0D			
	2800	OTTA	21	1605	1700	275	4.4	2.2		
	486	WASH	41	1700		2	150.0D			
	10700	PENN	1	1818.5	1818.7	1.6	7.5	3.0		
	8800	SGMR	3	1818	1818.5	1.5	12.3U	4.6U		
	4995	SGMR	1	1818	1818.6	1.5	5.8U	2.0U		
	2800	OTTA	1	1818.3	1818.7	1	1.8	1.2		
	2700	PENN	1	1818.1	1818.9	2	2.8	1.4		
	2695	SGMR	1	1818	1818.7	1.4	2.4	.8		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

OCTOBER 1966

DATE	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} (c/s)^{-1}$ PEAK	FLUX DENSITY MEAN	INT.	REMARKS
	1415	SGMR	1	1818	1818.8	1.4	6.7	2.2		
	606	SGMR	1	1818	1818.8	1.2	6.3	2.1		
	2800	OTTA	1	1902.3	1902.5	1	2.0	1.0		
	2695	SGMR	1	1902	1902.4	1	2.4	1.2		
	2800	OTTA	4	1906.4	1907.7	5.5	8.6	4.3		
	2700	PENN	3	1906.5	1907.8	6.9	8.3	2.1		
	2695	SGMR	1	1906	1907	3	7.2	2.5		
	1415	SGMR	1	1906	1907	3	6.7	2.2		
	606	SGMR	41	1906.1	1906.3	2.9	84.8	10.0		
	2695	SGMR	40	2003	2006	69 D	16.8	6.3		
	1415	SGMR	40	2003	2006.7	115 D	9.0	3.0		
	606	SGMR	40	2003	2006.7	115 D	3.1	1.0		
	10700	PENN	20	2047.9	2051.4	10.7	9.7	1.3		
	8800	SGMR	1	2051	2051.5	1.5	6.2U	1.5U		
	4995	SGMR	3	2051	2051.3	2.1	19.8U	6.6U		
	2800	OTTA	23	2048	2048.5	8	2.0	1.2		
	2800	OTTA	4	2050.7	2051.5	2.5	19.0	9.5		
	2700	PENN	45	2047.9	2051.4	10.3	20.7	2.3		
	2695	SGMR	4	2050.7	2051.5	2.3	14.4	7.2		
	1415	SGMR	3	2051	2051.5	3	13.4	4.5		
	606	SGMR	41	2048.4	2051.1	4.6	434.0	43.4		
	2700	PENT	1	2155	2155.3	1	2.4	1.2		
	2700	PENT	4	2200	2201.1	5	29.0	11.0		
	2700	PENT	1	2310	2310.2	1.2	4.4	2.2		
	2700	PENT	4	2312	2313	2	39.0	20.0		
	2800	OTTA	29	2314		4	4.4	2.2		
17	2800	OTTA	20	1410	1610	220	2.6	1.3		
	2800	OTTA	20	2030	2032	30	3.0	1.5		
	2700	PENN	1	2030.9	2032.2	25	4.3	1.5		
	2800	OTTA	1	2106	2107	2	1.8	0.9		
	2700	PENT	20	2257	2306	22	3.4	1.7		
18	2800	OTTA	20	1650 U		320	8.8	5.9		
	2695	SGMR	20	1704	1717	63	7.7	4.0		
19	2800	OTTA	20	1500	1730	350	3.4	1.7		
20	2800	OTTA	20	1250	1315	225	3.6	2.4		
	2800	OTTA	21	1714	1755	85	4.2	2.1		
	2800	OTTA	4	1714.5	1714.7	2	10.0	5.0		
	2800	OTTA	1	1903	1903.5	3	3.2	1.6		
	2695	SGMR	1	1903	1903.7	4	3.3	1.0		
	1415	SGMR	1	1903	1903.7	1.5	6.8	2.0		
	606	SGMR	3	1903	1903.6	1.5	11.3	3.0		
	10700	PENN	45	2035.3	2036.2	20	40.9	8.5		
	8800	SGMR	45	2035.1	2036.4	9.9	37.0U	9.3U		
	8800	SGMR	45	2035.1	2038	9.9	37.0U	9.3U		
	4995	SGMR	45	2035.1	2038	9.9	34.7U	5.8U		
	2800	OTTA	40	2035	2040.8	10	17.6	8.0		
	2700	PENN	45	2035.5	2040.8	9.1	17.5	7.9		
	2695	SGMR	45	2035.1	2040.7	9.9	18.6	4.0		
	1415	SGMR	45	2035	2042.2	10	58.5	2.0		
	960	PENN	20	2035.5	2035.8	10.9	2.4	1.2		
	606	SGMR	45	2035	2042.3	10	30.8	5.5		
	486	WASH	45	2040		4	25.0			
	2700	PENT	4	2154.5	2155	4	20.0	7.0		
	486	WASH	45	2155		2	75.0			
21	2695	SGMR	22	1227.5	1234.5	38.5	12.1	5.0		
	2800	OTTA	21	1340	1520	240	1.8	0.9		
	2800	OTTA	20	1614	1615	35	2.6	1.3		
	2700	PENN	20	1613.4	1619	56	5.0	2.5		
22	2800	OTTA	21	1300	1430	480	5.4	2.7		
	2700	PENN	45	2005.3	2006.1	6.4	13.0	1.8		
	2700	PENT	40	2005	2007	4	9.4	3.2		
	2695	SGMR	45	2000	2006	15	16.4	4.0		
	1415	SGMR	45	2005.3	2006	4.7	37.9	8.0		
	960	PENN	1	2006	2006.1	2.5	3.3	.7		
	606	SGMR	45	2005.2	2006.7	2.9	245.0	20.0		
	2800	OTTA	1	2217	2217.1	.4	6.2	3.1		
	2700	PENT	21	2215	2215.3	5	2.8	1.4		
23	2700	PENT	3	0001	0001.2	1.5	15.0	7.5		
	1415	SGMR	3	1151.6	1151.8	2.4	20.8	5.0		
	606	SGMR	3	1151.6	1151.9	1.4	44.6	12.0		
	2800	OTTA	20	1330	1346	45	4.4	2.2		
	2700	PENN	24	1335	1350	161	3.1	1.6		
	1415	SGMR	1	1345.5	1346.3	2	4.6	1.0		
	606	SGMR	3	1345.5	1346	2	22.0	5.0		
	10700	PENN	20	1420.8	1428.8	84	34.8	16.3		
	4995	SGMR	20	1422	1429	218	21.7	7.3		
	2800	OTTA	20	1429	1429	165	13.0	6.5		
	2700	PENN	20	1422.7	1429.3	84.3	9.0	3.6		
	2695	SGMR	20	1422	1429	111	9.8	3.3		
	1415	SGMR	20	1422	1442	105	4.6	1.6		
	10700	PENN	20	2055		42 D				DUR. CAL.
	2800	OTTA	20	2040	2102	85	11.0	3.4		
	2700	PENN	20	2058		28 D				DUR. CAL.
	2700	PENT	4	2355	2355.5	1	41.0	14.0		

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

OCTOBER 1966

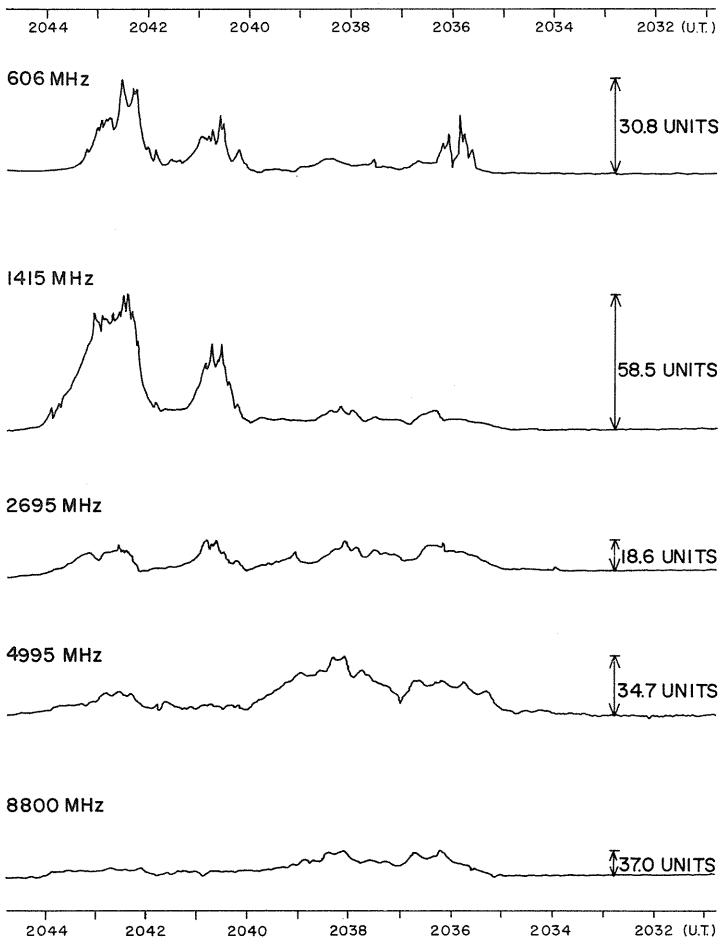
DATE	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} (c/s)$^{-1}$ PEAK	FLUX DENSITY MEAN	INT.	REMARKS
24	4995	SGMR	41	1133.8	1134.5	5.4	9.8	2.8		
	2695	SGMR	41	1133.8	1134.5	5.4	11.6	3.0		
	1415	SGMR	41	1133.8	1134.5	3.9	20.7	5.0		
	606	SGMR	41	1133.8	1133.9	3.9	23.1	6.0		
	2800	OTTA	1	1245	1245.2	.5	2.0	1.0		
	2700	PENN	1	1244.8	1244.9	.7	2.5	1.3		
	1415	SGMR	3	1244.9	1245.2	1.1	9.2	2.0		
	960	PENN	1	1244.9	1245	.7	1.7	0.9		
	606	SGMR	3	1244.9	1245.2	1.1	13.2	3.0		
	328	PENN	45	1244.6	1245	1.7	28.3	7.0		
	10700	PENN	45	1319.3	1319.9	1.8	39.1	8.4		
	4995	SGMR	3	1319.8	1320.3	2.2	19.6	5.6		
	2800	OTTA	4	1319.5	1320.4	1.5	12.6	5.8		
	2700	PENN	45	1319.2	1320	2.8	12.3	2.8		
	2695	SGMR	3	1319.8	1320.4	3.2	17.4	5.0		
	1415	SGMR	43	1318.4	1320.2	2.7	43.2	13.0		
	960	PENN	45	1318.2	1319.7	3	14.9	5.1		
	606	SGMR	43	1317.4	1320.2	4.2	676.0	200.0		
	328	PENN	45	1319.4	1320	2	482.8	68.2		
	1415	SGMR	29	1321.1	1321.1	3.9	4.0	2.0		
	606	SGMR	29	1321.6	1321.6	25.4	3.3	1.5		
	10700	PENN	3	1502.1	1502.9	3.2	108.3	12.5		
	8800	SGMR	3	1502.5	1503.4	2.5	87.0	8.7		
	4995	SGMR	3	1502.3	1503.4	3.7	74.2	12.6		
	2800	OTTA	3	1502.5	1503.1	6	110.0	20.0		
	2700	PENN	3	1502.1	1502.9	7	143.0	14.5		
	2695	SGMR	3	1502.3	1503.4	3.7	127.8	43.0		
	1415	SGMR	43	1502.3	1503.8	4.7	100.8	34.0		
	960	PENN	45	1502.1	1504.1	11.2	26.8	3.8		
	606	SGMR	43	1502.3	1503.6	4.7	84.6	28.0		
	328	PENN	45	1502.1	1503.1	3.4	720.1	75.3		
	2695	SGMR	29	1506	1506	8	5.8	2.9		
	1415	SGMR	29	1507	1507	23	6.9	3.5		
	606	SGMR	29	1507	1507	23	9.9	4.8		
	960	PENN	1	1709.4	1709.9	.8	1.4	0.7		
	328	PENN	45	1708.6	1709.9	2.6	16.5	4.5		
	2700	PENN	1	1815.4	1815.6	.6	1.7	0.9		
	960	PENN	1	1816.4	1817.1	1.1	1.5	0.7		
	328	PENN	5	1816.4	1817.2	1.1	32.9	16.5		
	960	PENN	1	2041.6	2042.6	1.5	13.5	2.6		
	328	PENN	5	2042.4	2042.7	.8	105.6	52.8		
25	960	PENN	1	1308	1310.3	4	1.0	0.5		
	328	PENN	5	1309.6	1310.2	.9	9.6	5.3		
	2800	OTTA	1	1617	1618	2	1.2	0.6		
	960	PENN	3	1648.9	1650	1.7	31.7	3.4		
	328	PENN	5	1648.8		.7	560.0D	200.0D		DUR. CAL.
	328	PENN	5	1649.6		.8	560.0D	150.0D		DUR. CAL.
	328	PENN	5	1651		2	560.0D	200.0D		DUR. CAL.
	960	PENN	1	1657	1657.4	1.9	3.1	1.9		
	328	PENN	45	1700	1704.7	14.8	257.3	59.3		DUR. CAL.
	960	PENN	3	1737.5	1737.7	.5	34.6	17.3		
	328	PENN	1	1736.7	1738.3	1.8	23.3	5.8		
	960	PENN	41	1740.6	1746	6.1	32.6	3.4		
	328	PENN	41	1740.3	1742.3	6.7	673.3	92.9		
	960	PENN	1	1754.6	1754.7	.2	2.8	1.4		
	328	PENN	5	1754.5	1754.7	3.1	17.3	6.5		
	960	PENN	3	1825.5	1825.6	.3	17.9	8.9		
	328	PENN	5	1825.7	1825.8	.7	47.0	23.5		
	960	PENN	41	2102.9	2103.9	15.7	14.9	1.3		
	328	PENN	5	2103.2	2104	1.2	65.2	21.5		
26	328	PENN	5	1504.8	1504.8	.6	31.1	15.5		
	960	PENN	1	1509	1509.2	1.4	2.7	1.4		
	328	PENN	5	1508.6	1509.4	4	22.5	4.0		
	960	PENN	1	1656.1	1658.8	3.2	4.8	1.1		
	328	PENN	5	1657.5	1658.8	1.9	18.0	9.0		
	960	PENN	1	1715	1716	1.7	1.3	0.7		
	328	PENN	5	1715.1	1716.6	1.7	27.7	14.1		
	960	PENN	1	1829.1	1829.2	.2	3.7	1.9		
	328	PENN	5	1828.9	1829.2	.6	24.5	12.3		
	960	PENN	1	1911	1911.3	.5	2.6	1.4		
	328	PENN	41	1908	1912	4.4	82.5	5.9		
	960	PENN	1	1915.6	1915.7	.2	5.6	2.8		
	328	PENN	5	1915.4	1915.7	.5	29.1	14.5		
	960	PENN	1	1948.8	1948.8	.2	4.1	2.0		
	328	PENN	5	1948.6	1948.9	.6	30.6	15.3		
	960	PENN	20	1952.8	1953	60.2	6.7	3.4		
	328	PENN	5	1951.8	1952.9	1.3	49.5	24.8		
27	2800	OTTA	20	1420	1510	85	3.2	1.6		
	960	PENN	45	1922.9	1923	.6	13.3	4.4		

The Solar Radio Emission Outstanding Occurrences reported in CRPL-FB-266, October 1966, were those which occurred in September 1966, not August 1966.

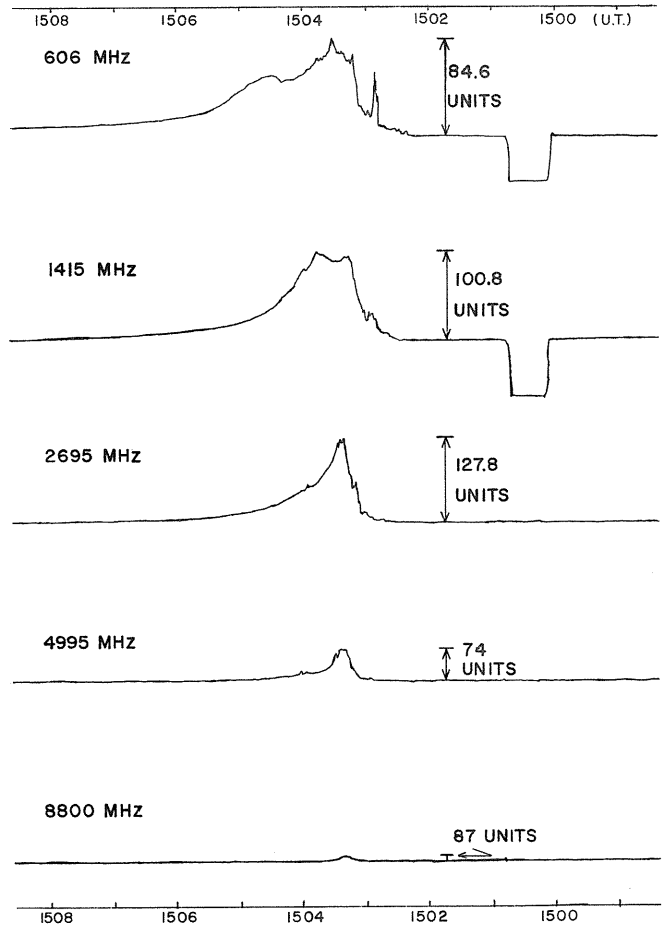
PENT = DRAO-Penticton. Formerly these occurrences were reported as OTTA.

SELECTED SOLAR NOISE BURSTS
AFCRL SAGAMORE HILL

OCTOBER 1966



COMPLEX BURST OBSERVED 20 OCTOBER, 1966
AT SAGAMORE HILL RADIO OBSERVATORY (AFCRL) HAMILTON, MASS.



SIMPLE II BURST OBSERVED 24 OCTOBER, 1966
AT SAGAMORE HILL RADIO OBSERVATORY (AFCRL) HAMILTON, MASS.
(NOTE: 606 MHz BURST IS COMPLEX)

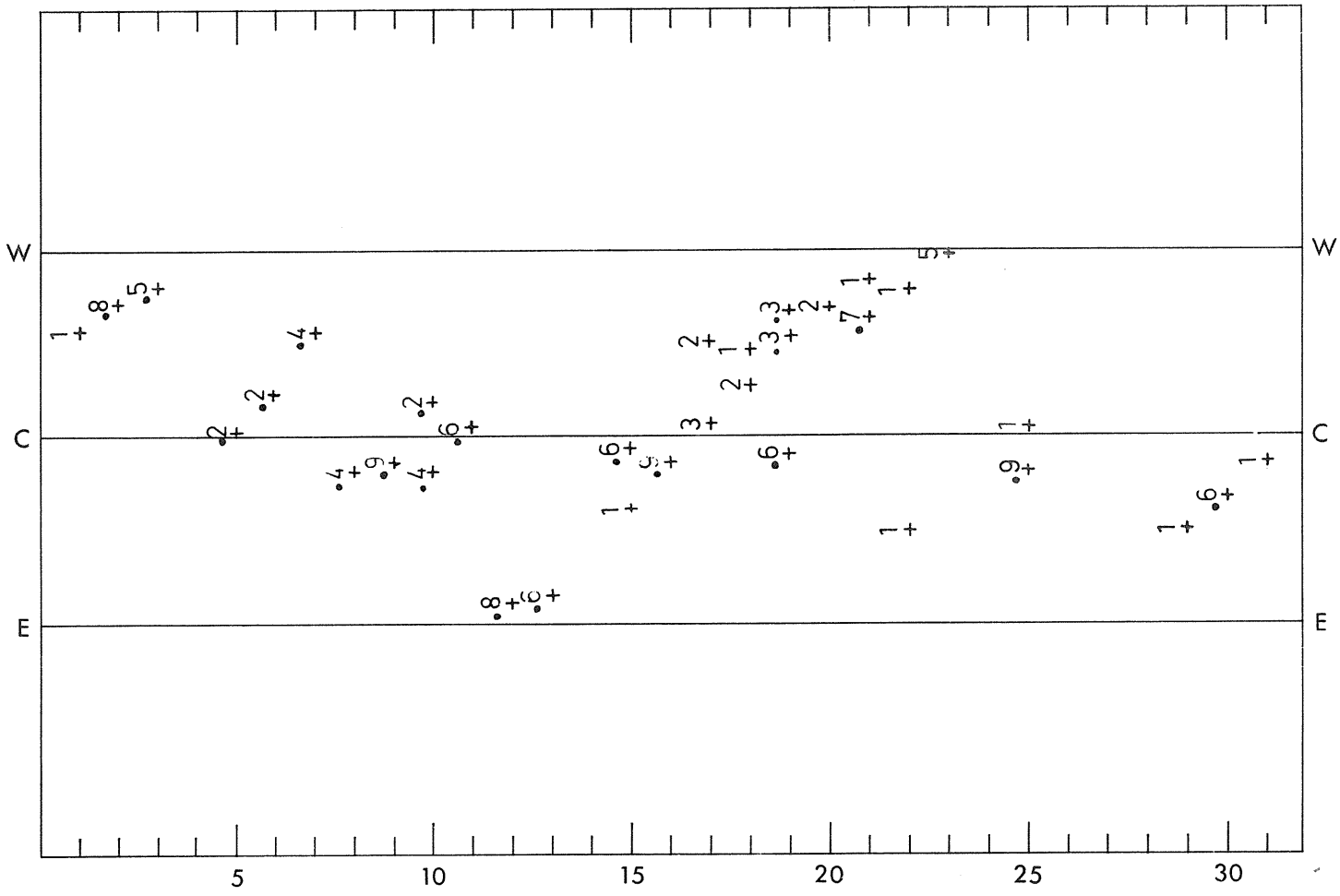
PAI

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

OCTOBER 1966

Nançay

408 Mc/s

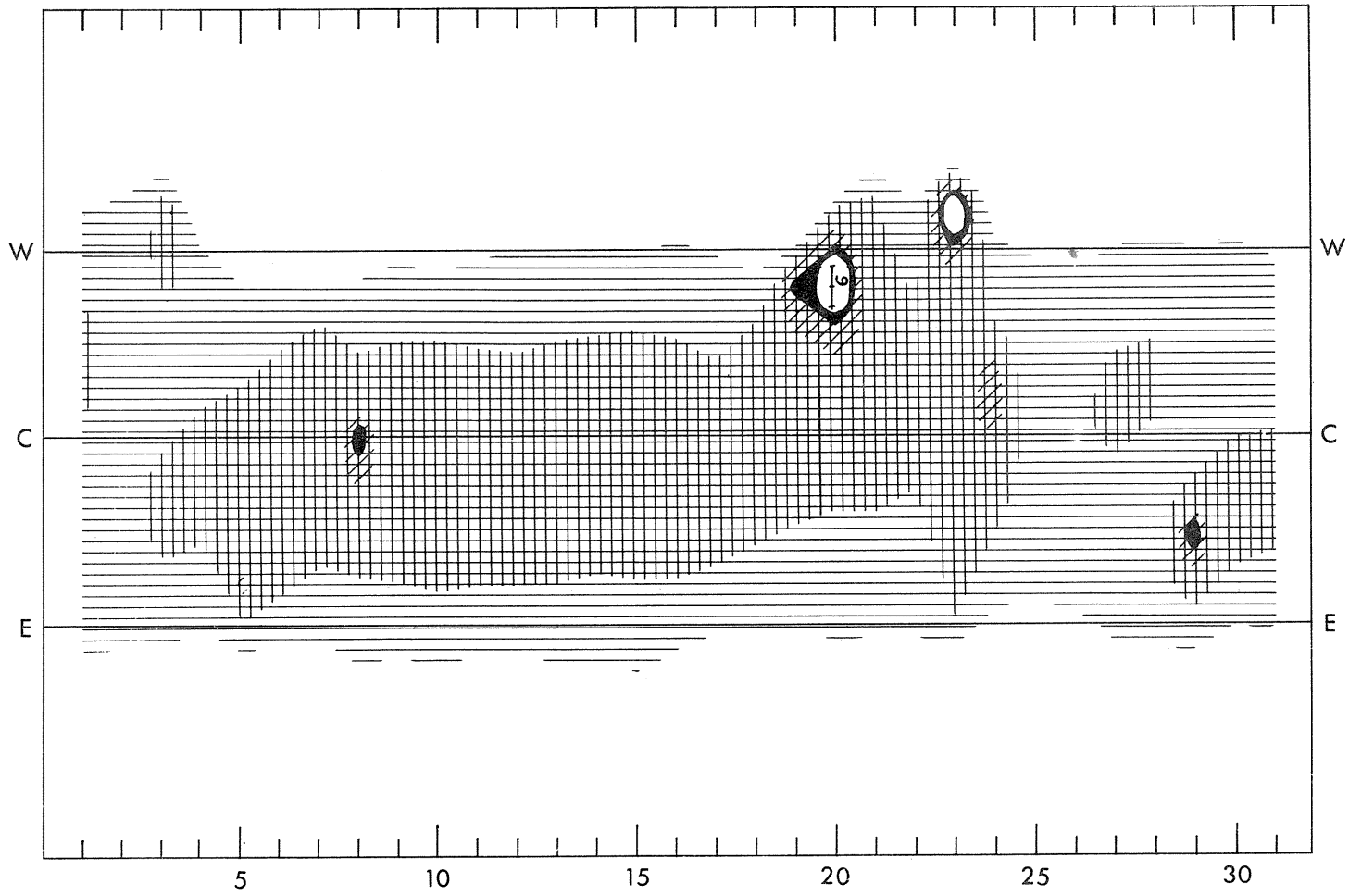


SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

OCTOBER 1966

Nançay

169 Mc/s



IVF

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1966

Fort Davis

25-320 Mc/s

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
July						
1-4	1220-2345					
5	1219-2345	IIIg	1610	1	140-<25	
		IIIb	1644	1	130-<25	
		IIIg	1718-1719	2	200-<25	
		IIIg	1721-1722	2	180-<25	
		IIIg	1756	2	180-<25	
		IIIg	1810-1811	2	160-<25	
		IIIg	1832-1833	2	220-<25	
		IIIg	1854-1855	2	150-<25	
		IIIg	2046	2	150-<25	
6	1220-2345					1230-1240: Weak I
7	1219-2345	IIIb	1806	1	50-<25	Occasional Weak I during day
		IIIG	2049-2053	3	240-<25	
		IIIg	2054-2056	2	180-<25	
		IIIg	2319	1	240-<50	
		IIIg	2330-2331	1	150-<25	
8	1219-2345	IIIg	1449	1	180-<25	Occasional Weak I during day
		IIIg	1724	2	150-<25	
		IIIg	1753-1754	1	240-<25	
		IIIg	1803	1	180-100	
		IIIb	1825	1	100-<25	
		IIIg	1836-1837	2	180-<25	
		IIIG	1848-1850	3	200-<25	
		IIIg	1852-1854	2	280-<25	
		IIIg	1856-1857	1	50-<25	
		IIIg	1919	1	150-<25	
		IIIg	1931	2	160-<25	
		IIIg	1938-1939	2	160-<25	
		IIIg	2020	2	175-<25	
		IIIb	2039	1	175-<25	
		IIIg	2042-2043	1	50-<25	
		IIIg	2051-2052	2	50-<25	
		IIIg	2056-2057	2	240-<25	
		IIIG	2142-2146	3	>320-<25	
		IIIg	2149	1	100-<25	
9	1220-2005 2054-2117					
10	1510-2345	IIIG	2020-2022	2	240-<25	Occasional Weak I throughout day
11	1219-1400	IIIg	1358	1	240-<180	
	1550-2345	IIIg	2013	2	150-<25	
		IIIg	2321	1	220-<100	
		IIIg	2323	1	240-<100	
12	1219-2345	IIIg	1314	1	200-<100	
		IIIg	1620-1621	2	230-<25	
		IIIb	1639	2	50-<25	
		IIIg	1659-1708	2	50-<25	
		IIIg	2006-2008	1	50-<25	
13	1219-2345	IIIg	1812	1	150-<100	
		IIIg	1820-1821	1	180-<100	
		IIIg	2321-2322	2	>320-<100	
14	1220-2345	IIIb	1559	1	100-<25	
		IIIg	1726-1727	2	240-<25	
		IIIg	1740-1742	2	115-<25	
		IIIg	2116	2	200-<25	
		IIIg	2119	1	140-<25	
		IIIg	2253-2254	2	>320-180	
15	1219-2345	IIIg	1243	2	180-<25	
		IIIg	1245	2	200-100	
		IIIg	2045	1	100-<25	
		IIIg	2056-2057	1	280-<100	
16	1220-2345	IIIg	1458	1	180-<100	Occasional Weak I throughout day
		IIIg	1550-1551	1	>320-<25	
		IIIg	1605	1	100-<25	
		IIIg	1848	1	180-<25	
		IIIg	1942	2	240-100	
		IIIg	1946	1	100-<25	
		I	2247-2300	1	280-100	
17	1220-2345	I	1520-1544	2	280-100	Weak I throughout day
		IIIg	1657-1658	1	180-<25	
		IIIg	1712	2	180-<25	
		IIIg	1825-1826	2	180-<25	1825-2345: Sporadic Type III, 75-<25 Mc/s.
		I	2001-2112	2	240-100	
		IIIg	2125-2126	3	>320-<100	
		IIIg	2320	2	240-150	
18	1219-2345					Occasional Weak I during day
19	1220-2345	IIIg	1852	2	175-50	Occasional Weak I throughout day 1733-2120: Sporadic Type III, 75-<25 Mc/s.
20	1219-2345					Occasional Weak I throughout day
21	1219-2345	IIIb	1644	2	100-<25	Occasional Weak I during day
		IIIg	1650-1651	3	100-<25	
		IIIg	1749-1751	2	50-<25	
		IIIg	1811-1812	1	100-<25	
		IIIg	2019	1	100-<25	
		IIIg	2032	2	100-<25	
		IIIb	2236	2	>320-180	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1966

Fort Davis — 25-320 Mc/s

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
22	1220-2400	IIIb	1359	1	75-<50	Occasional Weak I throughout day
		IIIg	1425-1426	2	>320-100	1425: U-burst
		IIIg	1459-1500	3	>320-<50	1437: U-burst
		IIIb	1539	2	75-<25	
		IIIb	1541	1	100-<50	
		IIIg	1556	3	100-<25	
		IIIg	1713	1	180-100	1721: U-burst
		IIIb	1858	2	75-<25	
		IIIg	1935	2	75-<25	
		IIIb	2035	2	200-<100	
		IIIg	2115	1	100-<25	
		IIIg	2153-2155	3	75-<25	
		IIIb	2304	1	50-<25	
		IIIg	2348-2349	3	75-<25	
23	0000-0145	IIIb	0041	1	180-<100	Occasional Weak I throughout day
	1220-2400	IIIg	1609	1	>320-180	
		IIIg	1751	1	>320-180	
		IIIg	1812	3	50-<25	
		IIIg	1938-1940	2	75-<25	
		IIIb	1953	2	75-<25	
		IIIg	2234-2235	2	190-<25	
24	0000-0145					
	1220-2400	IIIb	1330	2	280-200	
		IIIg	1550-1551	2	280-150	
25	0000-0145					
	1219-2400	IIIG	1249-1251	2	>320-125	
		IIIb	1319	1	240-115	
		IIIg	1332	3	>320-<100	1332: U-burst
		IIIg	1439	2	240-<100	
		IIIg	1509-1510	1	240-100	
		IIIG	1623-1625	2	150-<25	1620-2004: Sporadic Type III, 75-<25 Mc/s.
		IIIg	1635-1636	1	240-<25	
		IIIG	1723-1725	2	180-<25	2025: U-burst
		IIIG	2248-2249	3	>320-<25	
		IIIG	2302-2304	3	>320-<25	
26	0000-0145	IIIb	0128	1	200-100	
	1220-2102	IIIg	1513	2	>320-180	Occasional Weak I throughout day
	2126-2400	IIIg	1928	2	150-<25	1547-2046: Sporadic Type III, 50-<25 Mc/s.
		IIIg	2001-2002	1	>180-<25	
27	0000-0145					
	1219-2400	IIIg	1258-1259	2	280-<100	Weak I throughout day
		I	1500-1520	1	280-115	
		I	1652-1706	2	>320-100	
		IIIG	1655-1656	2	290-<25	
		IIIg	1746-1747	2	>320-<25	
		IIIg	1803	2	180-<25	
		IIIg	1905	3	180-<25	
		IIIG	2249-2250	3	>320-<25	
28	0000-0145	I	0000-0042	2	>320-125	
		IIIg	0018-0020	1	240-<50	
		IIIg	0132	1	240-<100	0123-0141: Weak I
	1219-2400	I	1247-1302	2	>320-160	Weak I throughout day
		I	1338-1414	2	>320-180	
		IIIG	1343-1347	2	>320-<100	
		IIIg	1659-1700	2	280-150	
		IIIg	1736-1737	2	>320-<100	
		IIIg	1820-1821	2	>320-<25	1800-2308: Sporadic Type III, 100-<25 Mc/s.
		IIIg	1902	1	240-<25	
		IIIG	1923-1925	3	>320-<25	
		IIIg	1928-1929	1	>320-<25	
		IIIg	1930-1931	1	>320-<25	
		IIIg	1932-1933	1	240-<25	
		I	1935-2120	2	>320-160	
		IIIg	1946	2	150-<25	
		IIIg	2129	1	280-<100	
		IIIg	2142	2	>320-<25	
		I	2146-2227	2	>320-100	
		IIIg	2147-2148	2	>320-<25	
		IIIG	2149-2151	3	>320-<25	
		IIIg	2157-2158	2	>320-<25	
		IIIg	2215-2219	2	250-100	2216-2219: Type V
		I	2240-2400	3	>320-100	2240-2400: Type I bursts have stray continuum background
29	0000-0145	I	0000-0140	2	300-180	
		IIIG	0048-0050	3	>320-<50	
		IIIG	0052-0055	3	>320-<50	
		IIIg	0056	2	>320-<100	
		IIIg	0127	2	240-<100	
	1220-2400	IIIg	1659-1702	2	280-150	Weak I during day
		IIIg	1718-1719	1	>320-<25	1815-2043: Sporadic Type III, 75-<25 Mc/s.
		IIIg	1913-1915	1	>320-<25	
		I	1918-2040	1	240-100	
		IIIg	2137	1	240-<25	
		IIIb	2149	1	180-<25	
		IIIg	2246-2247	3	>320-<25	
		IIIG	2252-2258	2	280-<100	
		I	2252-2313	3	280-<100	
		IIIG	2259-2300	3	>320-<25	
30	0000-0145					
	1219-2400	IIIb	1532	1	150-<50	Weak I throughout day
		I	1607-1722	2	>320-100	
		IIIG	1644-1648	2	>320-<25	
		IIIG	1717-1722	3	240-<25	
		IIIG	1802-1804	2	180-<25	1840-2035: Sporadic Type III, 75-<25 Mc/s.
		IIIg	2102-2103	1	180-<25	
		IIIg	2156-2157	3	240-<25	
		IIIg	2159	1	240-125	
		IIIG	2210-2215	2	240-<25	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

AUGUST 1966

Fort Davis — 25-320 Mc/s

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
31	0000-0150					Weak I throughout day
	1220-2400	IIIg	1350-1351	2	180-<50	
		IIIb	1412	3	>320-<25	
		IIIg	1433	2	180-<25	
		IIIg	1455	3	280-<25	
		IIIg	2118-2119	2	>320-<25	1708-2037: Sporadic Type III, 75-<25 Mc/s.
		IIIg	2330	1	280-<50	
August						
1	0000-0145					
	1232-2400	IIIg	1316	3	240-<50	Occasional Weak I during day
		IIIg	1635	1	150-<25	
		IIIg	1653	1	75-50	
		IIIg	2035-2036	2	125-<25	2002-2240: Sporadic Type III, 100-<25 Mc/s.
		IIIg	2131-2132	3	125-<25	
2	0000-0145					
	1232-2400	IIIg	1258-1259	1	>320-<100	
		IIIb	1717	2	75-<25	
		IIIg	1806-1807	1	75-<25	
3	0000-0145					
	1233-2400					
4	0000-0145					
	1232-2345	IIIg	1923	1	>320-<25	Occasional Weak I during day
5	1233-2345					
6	1232-2345	IIIg	1905-1906	2	245-180	
7-8	1233-2345					
9	1558-2345					
10	1233-1818					
	1826-2355					
11	1233-2345	Uncl.	1911-1913	1	75-<25	1911-1913: Uncl. burst has some characteristics of Type II including harmonic and appropriate drift rate.
12	1233-2345	IIIb	1702	1	150-<25	
13	1233-2345					
14	1232-2345	IIIg	1823-1824	1	>320-<25	
		IIIg	1826-1827	1	75-<25	
15	1233-1500	IIIb	1507	1	150-<100	
	1502-2345					
16	1232-1603					
	1613-2345					
17	1233-2345					
18	1233-2345	IIIg	2010	3	290-<50	
19-21	1233-2345					
22	1233-2400					
23	1448-2345					
24	1232-2345	IIIb	1607	1	240-<50	
		IIIg	1620	2	240-<25	
		IIIg	1709-1713	3	240-<25	
		IIIg	1846-1847	1	200-<25	
		IIIb	2049	2	100-<25	
		IIIg	2226-2228	1	240-<50	
25	1248-2345	IIIg	1351-1352	2	180-<50	
		IIIg	1432	1	240-<50	
		IIIg	1503-1504	2	220-<50	1505-1510: Sporadic Type III, 110-50 Mc/s.
		IIIG	1740-1744	3	280-<25	
		IIIb	1802	1	110-<50	
		IIIb	1943	1	75-<50	
26	1248-2345	IIIg	1305-1306	1	180-<50	Occasional Weak I throughout day
		IIIG	1800-1804	2	100-<25	1414-2020: Sporadic Type III, 100-<50 Mc/s.
		IIIG	1811-1820	3	280-<25	
		IIIg	1856-1857	2	>320-<50	
		I	1910-2120	2	70-<50	
27	1249-2345	IIIg	1910	1	150-<50	Weak I throughout day
		IIIg	1934	2	240-<25	1726-2338: Sporadic Type III, 75-<50 Mc/s.
		I	2020->2210	3	>320-<50	2020->2210: Broad band Type I
28	1249-2345	I	1249-1820	3	>320-<50	Type I bursts have strong continuum background
		IIIg	1524-1527	3	>320-<25	throughout day
		IIIG	1527-1532	3+	>320-<50	1527-1532: Type V, Intensity 3+, Range >320-<50
		IV	1527-1640	3	>320-<50	1527-1640 Type IV burst has structure similar to
		II	1531-1548	3+	>150-<25	fast drift bursts. After 1640 merges with noise
		IIIG	1534-1556	3	>320-125	storm activity.
		IIIG	1601-1609	3	>320-100	
		I	1820-1900	2	>320-<50	
		I	1900-2345	3	>320-<25	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

AUGUST, SEPTEMBER 1966

Fort Davis

25-320 Mc/s

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
29	1249-2400	IIIG	1326-1332	3	150-<25	Weak I throughout day
		IIIG	1333-1337	3	150-<25	
		IIIG	1341-1352	3	>320-<25	
		IIIg	1400-1402	3	>320-150	
		IIIg	1417-1419	2	240-125	
		I	1420-1600	3	240-<50	
		IIIG	1436-1439	3	100-<25	
		I	1730-1840	2	230-<50	1730-1820: Reverse drift pairs
		I	2025-2400	3	250-<50	1800-2100: Sporadic Type III, 100-25 Mc/s. Type I has background continuum
30	0000-0013	I	0000-0107	2	240-<50	
	0020-0115					
	1249-2400	IIIG	1447-1448	3	120-<25	Weak I throughout day
		IIIg	1505	3	150-<25	1300-2400: Sporadic Type III, with continuum background 100-<25 Mc/s.
		IIIg	1511	3	150-<25	
		I	1540-2400	2	240-<25	
		IIIg	2152	3	180-<25	2204: Type V
31	0000-0115	I	0000-0100	2	240-<50	
		IIIG	0024-0026	3	>320-<25	
	1248-2400	IIIg	1308	1	75-<25	Weak I throughout day
		IIIg	1313-1314	2	75-<25	
		IIIg	1324-1325	2	>320-<50	1402-2400: Sporadic Type III, 75-<25 Mc/s.
		IIIg	1603-1604	2	>320-100	
		IIIG	1606-1611	3	180-<25	
		IIIg	2113-2114	2	125-<25	
		I	2130-2400	2	280-<50	
		IIIg	2145	1	180-<50	
		IIIg	2303-2304	2	100-<25	
Sept.						
1	0000-0115	I	0000-0106	2	240-<50	
		IIIg	0038-0039	3	>320-<100	
	1318-2400	IIIg	1354	2	150-<50	Weak I throughout day
		IIIb	1415	3	240-<25	1341-1710: Sporadic Type III, 100-<25 Mc/s.
		IIIg	1441-1442	3	240-<25	
		I	2039-2122	1	160-<50	
2	0000-0115	IIIg	0003-0004	2	240-<50	
	1318-2400	IIIg	1545	2	240-<50	
		IIIb	1627	1	150-<50	
		IIIg	1753	3	>320-<25	
		IIIg	1814	2	150-<25	
		IIIg	1826	1	75-50	
		IIIg	1909	3	100-<25	
		IIIg	2000	3	150-<25	
		IIIg	2229-2230	1	240-<25	
		IIIG	2232-2235	3	>320-<25	
		IIIg	2240	3	100-<50	
		IIIG	2334-2335	3	>320-<25	
		IIIg	2336-2337	3	>320-<25	
3	0000-0110	IIIg	0009-0010	3	>320-<25	
	1319-2400	IIIg	1329	2	110-<50	
		IIIg	1444-1445	3	180-<25	
		IIIb	1512	2	100-<50	
		IIIb	1608	2	80-<50	
4	0000-0115					
	1319-2400	IIIb	2244	1	75-50	
		IIIb	2258	2	60-<25	
		IIIb	2303	1	50-<25	
5	0000-0100					
	1319-2400					
6	0000-0105					
	1319-2345					
7	1319-2345	IIIg	1455	1	180-<50	1403-2216: Sporadic Type III, 100-<25 Mc/s.
		IIIg	1717	2	150-<50	
		IIIg	1814	3	180-<25	
		IIIg	1907	3	125-<25	
		IIIg	1957-1958	3	150-<25	
		IIIg	2110-2111	3	150-<25	
		IIIG	2112-2114	3	150-<25	
		IIIg	2128-2129	3	150-<25	
8	1319-2345	IIIg	1352-1355	2	180-<25	
		IIIb	1543	1	150-<50	
		IIIg	1716	1	75-<25	
		IIIg	1734-1735	2	150-<25	
		IIIg	1736	2	180-<25	
		IIIb	1802	2	35-<25	
		IIIg	1957	3	180-<25	
		IIIb	2321	1	100-<50	
9	1319-2345	IIIg	1334-1335	2	200-<50	
		IIIg	1504-1505	1	180-<50	
		IIIg	1507-1508	2	180-<50	
		IIIG	1528-1530	3	240-<25	
		IIIb	1600	2	150-<50	
		IIIg	1712-1713	1	180-<50	
		IIIG	1719-1722	3	280-<25	
		IIIG	1724-1727	3	300-<25	1802-2338: Sporadic Type III, 100-<25 Mc/s.
		IIIG	1935-1938	3	230-<25	
		IIIg	2021	3	240-<25	
		IIIg	2105	2	150-<25	
		IIIg	2130	2	160-<25	
		IIIg	2151	2	160-<25	
		IIIg	2223-2224	2	180-<25	
		IIIg	2227-2228	3	190-<25	
		IIIg	2231	2	240-<25	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1966

Fort Davis — 25-320 Mc/s

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
10	1319-2345	IIIg	1328	1	150-<50	Occasional Weak I during day
		IIIg	1420-1421	2	240-<50	
		IIIG	1422-1424	3	240-<25	
		IIIg	1426-1427	3	290-<25	
		IIIG	1515-1516	3	200-35	
		IIIG	1517-1520	3	280-<25	
		IIIg	1542-1543	2	150-<25	
		IIIG	1605-1608	3	180-<25	
		IIIg	1609-1610	3	>320-<25	
		IIIg	1611-1612	3	250-<25	
		IIIg	1615	2	150-<25	
		IIIg	1623	2	180-<25	
		IIIG	1625-1626	3	240-<25	1627-2214: Sporadic Type III, 100-<25 Mc/s.
		IIIG	1721-1724	3	>320-<25	1723: Type V
		IIIg	1726-1727	2	140-<25	
		IIIG	1801-1803	2	125-<25	
		IIIg	1805-1807	3	150-<25	
		IIIG	1942-1944	3	180-<25	
		IIIg	2040-2041	2	180-<25	2117: U-burst
		IIIG	2209-2212	3	180-<25	
11	1319-2345	IIIb	1924	1	150-60	Occastional Weak I during day 1804-1959: Sporadic Type III, 100-<25 Mc/s.
12	1319-2345					
13	1319-2400					
14-15	0000-0035 1318-2400					
16	0000-0035					
	1319-2400	IIIg	1412-1413	1	240-<50	Weak I throughout day
		IIIg	1428-1429	1	>320-<50	1409-2400: Sporadic Type III, 100-<25 Mc/s.
		IIIg	1451-1452	3	>320-<50	
		IIIb	1505	1	115-75	
		IIIG	1551-1552	3	250-<25	
		IIIg	1624-1625	3	250-<25	1624: Type V
		IIIg	1726-1727	2	240-<25	
		I	1734-2024	2	240-50	
		IIIb	1829	3	240-<25	
17	0000-0035					
	1319-2400	IIIG	2048-2051	3	>320-<25	Occasional Weak I during day
		IIIb	2158	1	280-180	1430-2241: Sporadic Type III, 100-<25 Mc/s.
		IIIg	2226	1	180-<50	
		IIIg	2249	1	>320-240	
		IIIG	2357-2400	3	>320-<25	
18	0000-0030					
	1319-2400	IIIg	1456-1457	1	>320-180	Occasional Weak I during day
		II	1459.8-1513	3	230-75	
		IIIg	1503-1504	2	280-230	
		IIIg	1702-1703	2	>320-175	
		IIIg	1704	1	>320-180	
		IIIg	2031-2032	3	280-<25	2031: Type V
		I	2100-2253	2	>320-100	
		IIIb	2213	2	125-<50	
		IIIg	2214-2215	3	180-<25	
		IIIg	2241-2242	2	150-<25	
		IIIg	2306	3	240-<25	
		IIIg	2321	2	250-<50	
		IIIb	2326	1	150-100	
19	0000-0035	IIIg	0004-0005	2	280-<25	Weak I throughout day
		IIIg	0013	2	180-<25	
	1319-2400	I	1319-1600	2	>320-100	Occasional Weak I throughout day
		IIIG	1323-1324	3	180-<25	1400-2400: Sporadic Type III, 100-<25 Mc/s.
		IIIG	1411-1412	3	180-<25	
		IIIg	1415-1416	1	<320-180	
		II	1537-1543	2	100-50	
		IIIg	1548-1549	1	150-<25	
		IIIg	1558	3	>320-<25	
		IIIg	1806-1807	2	>320-250	
		IIIg	1812-1813	2	180-<25	
		IIIG	1851-1856	3	>320-<25	
		I	1920-1946	2	280-100	
		IIIg	1949-1950	3	280-<25	
		IIIg	1954	2	180-<50	
		IIIg	2014-2015	3	240-<50	2014: Type V
		IIIg	2110	3	180-<25	
		IIIg	2126-2127	3	250-<25	
		IIIg	2206-2207	2	250-<25	
		IIIg	2227	2	180-<50	
		IIIG	2250-2253	3	>320-<25	
		IIIg	2256-2257	3	>320-<25	
		IIIg	2259-2300	2	>320-<25	
		I	2300-2400	2	280-<50	
20	0000-0035	I	0000-0028	1	280-50	Weak I throughout day
	1319-2400	I	1340-1540	1	280-100	1320-2340: Sporadic Type III, 150-<25 Mc/s.
		IIIg	1413-1414	1	>320-280	
		IIIg	1607-1608	1	150-<50	
		I	1636-1740	2	280-100	1714: Type I develops background continuum
		IIIg	1713	2	>320-280	
		IIIG	1714-1715	3	>320-<25	1714-1715: Type V
		I	2112-2328	2	280-75	
		I	2353-2400	1	280-<100	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1966

Fort Davis

25-320 Mc/s

1966	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
21	0000-0040					
	1319-2400	IIIg	1613-1614	1	180-<25	Weak I during day
		IIIG	1617-1619	3	240-<25	1359-2321: Sporadic Type III, 100-<25 Mc/s.
		IIIg	1650-1651	3	>320-230	
		IIIg	1656	3	240-<25	
		IIIg	1925-1926	2	125-<25	
		IIIg	1930-1931	3	240-<25	1930: Type V
		IIIg	2022-2023	2	150-<50	
		IIIg	2203	1	135-100	
		IIIb	2312	1	180-100	
		IIIb	2320	1	180-100	
		IIIb	2322	1	135-100	
		IIIb	2324	1	125-100	
22	0000-0030					
	1319-2400	IIIG	1717-1719	2	300-<25	1503-1936: Sporadic Type III, 150-<25 Mc/s.
		IIIg	1726	3	240-<25	1726: U-burst
		IIIg	1742-1743	3	240-<25	1737: U-burst
		IIIg	1837-1838	2	240-<50	
		IIIg	1839	1	280-<50	
		IIIg	1919-1920	1	240-<25	
		IIIg	2052	2	240-<25	
		IIIb	2134	1	160-100	
23	0000-0030	IIIb	0002	1	150-100	
		IIIb	0009	1	180-100	
	1319-2345	IIIg	1452-1453	2	240-<50	
		IIIG	1703-1704	3	280-<25	
		IIIg	1856	1	75-<25	
		IIIg	1912-1913	1	180-<25	
		IIIg	1914-1919	2	150-<50	
		IIIG	2046-2047	3	300-60	
		IIIg	2049-2050	1	200-125	
24	1319-2345					Occasional Weak I during day
25	1319-2345	IIIg	1334	2	180-<50	
26	1319-2345	I	1935-2110	2	280-150	Occasional Weak I throughout day
		IIIb	2012	1	150-<50	
		IIIg	2113	3	180-<25	
27	1319-2345					1319-1340: Weak I
28	1319-2345					
29	1319-2158					
	2256-2345					
30	1319-2345	IIIb	1544	1	75-50	Occasional Weak I throughout day
		IIIg	1713-1714	2	>180-<50	
		IIIG	1746-1749	2	>180-<25	
		IIIb	1856	2	180-75	
		IIIb	2022	1	180-100	
		IIIg	2121-2122	1	180-50	
		IIIg	2130-2131	3	180-<25	
		IIIb	2244	3	100-<25	
		IIIg	2254-2255	3	>180-<50	
		IIIg	2308-2309	2	>180-<50	
		IIIb	2315	1	100-<50	
		IIIg	2339	1	125-<50	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

OCTOBER 1966

University of Colorado — 7.6-41 Mc/s

Date Oct 1966	Bursts				Date Oct 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
1	III	1406-1406:15	1	31-41	11	III	2129:15-2129:45	1+	22-34
	III	1527:45-1528:30	2	13-41		III	2154-2154:15	1+	23-41
	III	1647:30-1648	2	12-41		III	2309:45-2310	1+	26-41
	continuum	2135:30-2140	1-	13-41	12	III	1411:45-1412:30	3	26-41
	III	2239:15-2239:30	1	16-41		III	1414:15-1414:45	2	24-41
	III	2301:45-2302	1	26-39		III	1428-1429:30	3	22-41
	III	2352:45-2353:45	2	18-41		III	1429-1430:15	3	24-41
2	III	0014:15-0015:15	2	15-41		III	1430:30-1431:15	3	23-41
	III	1604:45-1606	2	22-41		III	1432-1432:30	3	23-41
	III	1634:15-1634:30	1	23-38		III	1433:15-1434	3	23-41
	III	1635-1635:15	1	25-37		III	1437:30-1438:15	3	22-40
	III	1635:45-1636	1	21-37		III	1438:30-1439	3	24-41
	III	1746:15-1746:45	1+	23-37		III	1445:30-1446:30	3	24-41
	III	1758:30-1759:	1+	23-41		III	1609:15-1609:30	1	19-41
	III	1831:30-1831:45	1	18-32		III	1610:45-1611	1	29-38
	III	2115:30-2116:15	1	25-41		III	1801-1801:30	1+	23-40
	III	2117:45-2119:15	2	16-41		III	1901:30-1902:30	3	13-41
	III	2129:45-2131:15	1+	21-41		III	1905:15-1905:45	3	23-41
	III	2133:30-2133:45	1+	21-40		III	1907:30-1908:30	3	17-41
3	continuum	b1244-2028	1-	25-41		III	2103-2103:30	1	23-41
	III	1759:45-1800:30	2	16-41		III	2114:45-2116	2	22-41
	III	2208-2208:15	1	25-38		III	2141:30-2142	1	28-41
	III	2321-2321:15	1+	27-41		III	2203:45-2204:15	2	24-41
	III	2321:30-2322:15	1+	23-41		III	2342:45-2343:15	2	27-39
	III	2342:15-2342:30	1-	30-37		III	2344:15-2344:45	2	27-39
4	continuum	b1415-a0031	1	23-41		III	2345:15-2345:30	1+	26-36
	III	1953:15-1953:30	1+	11-41		III	2345:45-2346	1+	26-41
	III	2018:45-2019	1	9-41	13	III	0008:30-0009	1+	28-34
5	continuum	b1252-a0039	1	23-41		III	1336-1338:15	3	23-41
	III	1403-1403:30	2	16-41		III	1338:45-1339:45	3	24-31
	III	1414:15-1414:30	2	15-41		III	1343-1344:15	3	24-40
	III	1441-1441:45	3	15-41		III	1344:15-1344:30	3	24-40
	III	1620-1621	2	7.6-41		III	1344:30-1345:15	3	23-41
	III	1628:15-1630	2	7.6-41		III	1347:30-1347:45	2	27-41
	III	2042:45-2043	1+	13-41		III	1402-1402:30	2	28-40
6	continuum	1536:45-1553	1-	22-41		III	1404:30-1404:45	2	26-41
	III	1544:30-1544:45	1	15-41		III	1649-1649:15	2	24-41
	III	1914:30-1914:45	1	35-41		III	1746:30-1746:45	1	22-40
	III	1914:45-1915	1	28-41		III	1838:15-1838:30	2	24-41
	III	1918:45-1919	1	33-41		III	1937:45-1938	2	23-41
	no observ.	1919-0030				III	1941:15-1941:30	2	22-41
8	III	1338:30-1339:30	2	18-41		III	1941:45-1942:15	3	14-41
9	no observ.	1859-2200				III	1942:30-1942:45	2	14-38
	continuum	b2200-a0035	1-	28-41		III	2010:15-2010:30	3	22-41
	III	2304-2304:30	2	23-41		III	2012:15-2013:30	3	17-41
10	continuum	b1248-a0039	1	27-41		III	2013:45-2014:30	3	17-41
	III	1427:30-1427:45	1+	18-41		III	2017:45-2019:30	3	17-41
11	continuum	b1500-1708:45	1-	27-41		III	2022:30-2022:45	3	17-41
	III	1521:15-1521:45	2	26-41		III	2022:45-2023	3	17-41
	III	1644:45-1645	1+	26-39		III	2026:15-2026:30	2	21-41
	III	1744:30-1744:45	1+	24-35		III	2031:15-2031:30	3	26-41
	continuum	1802:45-2105	1-	24-41		III	2136:30-2136:45	2	20-41
	III	1826:15-1826:30	1+	22-41		III	2348:30-2348:45	3	26-41
	III	2002:30-2003:15	2	26-36	14	III	1721:30-1721:45	1+	22-41
	III	2118-2118:30	1+	24-32		III	1752:30-1752:45	1-	19-41

SOLAR RADIO EMISSION
SPECTRAL OBSERVATION

OCTOBER 1966

University of Colorado

7.6-41 Mc/s

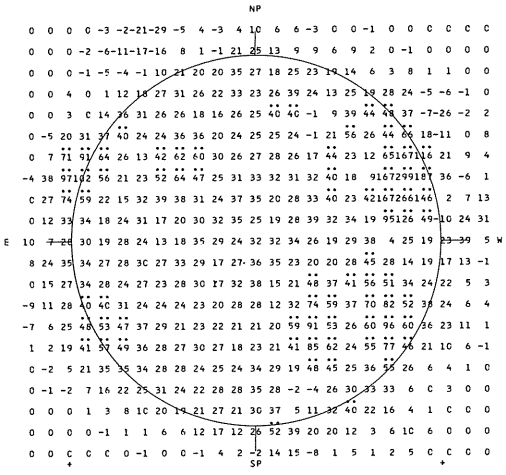
Date Oct 1966	Bursts				Date Oct 1966	Bursts			
	Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U. T.)	Intensity	Frequency Range (Mc/s)
14	III	1812:45-1813	1	19-41	18	III	1738:30-1739	1+	28-41
	III	1815:30-1815:45	1	24-41		III	1742:30-1742:45	2	28-41
	continuum	1908-2000	1	26-41		III	1842:15-1842:45	2	7.6-41
	III	1933-1933:15	1+	25-41		III	1843-1843:15	1+	17-41
	III	2000:30-2001	2	17-41		III	1843:30-1844:15	2	17-41
	III	2132:15-2132:30	2	22-41		III	1939:15-1943	3	14-41
	III	2139:45-2140:30	2+	23-41		III	2120:45-2121:15	1+	23-41
	continuum	2212-2304	1-	23-41		III	2245:15-2245:30	1+	27-41
	III	2212:45-2213	1+	28-41	19	III	2302:15-2302:30	1+	27-38
	III	2221:30-2221:45	1+	22-41	20	no observ.	1520-0030		
15	continuum	b1247-a0033	1	26-41	23	III	1437:45-1438	1	28-41
	III	1610:30-1610:45	1+	26-41		III	1743:15-1743:30	1	25-41
	III	1702:30-1702:45	1+	22-41		III	1805:45-1806:15	2	16-41
	III	1838:30-1838:45	1+	22-41		III	1806:30-1806:45	1	24-39
	III	1938:30-1939	1+	19-41		III	2355:15-2356	1+	25-41
	III	2036:15-2036:30	1+	28-41	24	no observ.	1700-0030		
	III	2057-2057:15	1	11-41	25	no observ.	1525-0030		
	III	2131:30-2131:45	3	23-41	26	no observ.	1930-0030		
16	continuum	b1337-a2345	1	26-41	27	III	1352:30-1352:45	1	28-41
	III	1338:15-1338:30	2	27-41		III	1353-1353:15	1	28-41
	III	1350-1350:30	2	24-41		III	1353:30-1353:45	1	28-41
	III	1406-1406:30	1	20-37		III	1354:45-1355	1-	27-41
	III	1503-1503:15	2	16-41		no observ.	1440-0030		
	III	1533:15-1533:30	2	16-41	28	III	1354-1355	3	24-41
	III	1534:30-1534:45	1+	17-41		III	2308:15-2308:30	1+	32-40
	III	1535-1535:15	1+	22-37	29	III	1707:15-1707:30	1	21-41
	III	1535:45-1536	2	17-41		III	1906:30-1906:45	1	16-41
	III	1536:15-1536:30	1+	22-41		III	1918:45-1919	1+	23-41
	III	1555-1555:45	3	20-41		III	2100:15-2100:45	1	24-39
	III	1555:45-1556	2	20-41		III	2320:45-2321	1	31-41
	III	1600:15-1600:30	1+	28-41	30	III	1917:15-1917:30	1-	24-37
	III	1614:30-1614:45	1+	21-40		III	2016:30-2016:45	1+	22-41
	III	1837:30-1837:45	1+	17-41		III	2017-2017:30	1	22-41
	III	1849:45-1850	1+	22-41		III	2018:15-2018:30	1	26-40
	III	1929-1929:15	1	16-41		III	2042:45-2043	2	22-41
	III	2006-2006:15	1	17-41	31	III	2226:15-2226:30	1+	34-41
	III	2021-2021:15	2	17-41		III	2252:30-2252:45	1-	32-39
	III	2243:45-2144	1+	20-41					
	III	2232-2232:15	2	17-41					
	III	2241:30-2241:45	1+	22-41					
	III	2241:45-2242	1+	22-41					
	III	2247-2247:15	1+	27-41					
	III	2255:30-2256	1+	23-41					
17	continuum	b1349-1800	1	26-41					
	III	1349:30-1349:45	1+	28-41					
	III	1403:15-1403:30	1+	24-41					
	III	1541:30-1541:45	1+	25-41					
	III	1706-1706:15	1+	26-41					
	III	2024-2024:15	1+	20-41					
	III	2153:30-2153:45	1+	24-41					
	III	2229-2229:30	1	28-36					
18	III	1322-1322:30	2	27-38					
	III	1504-1504:30	2	27-38					
	III	1521:15-1521:30	1+	26-41					
	III	1527:45-1528	1+	26-38					

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

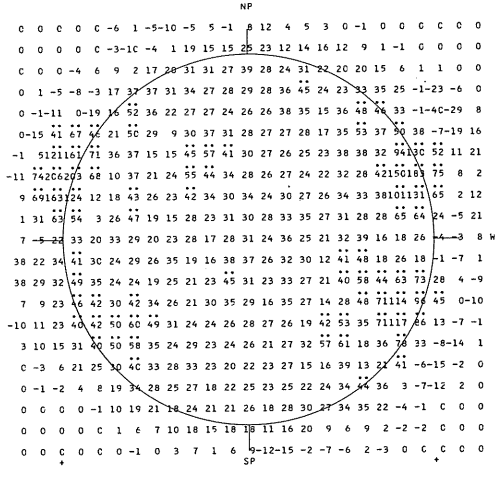
STANFORD

OCTOBER 1966

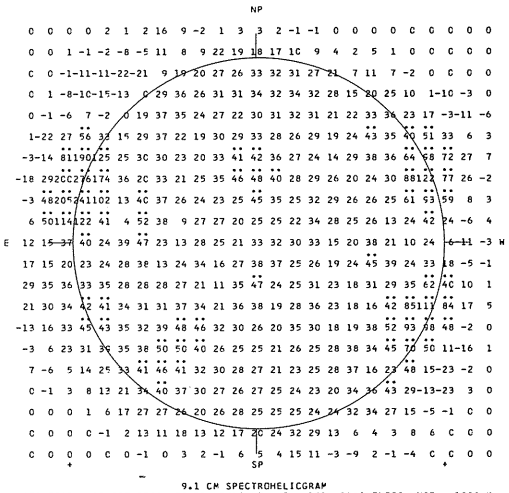
9.1 cm



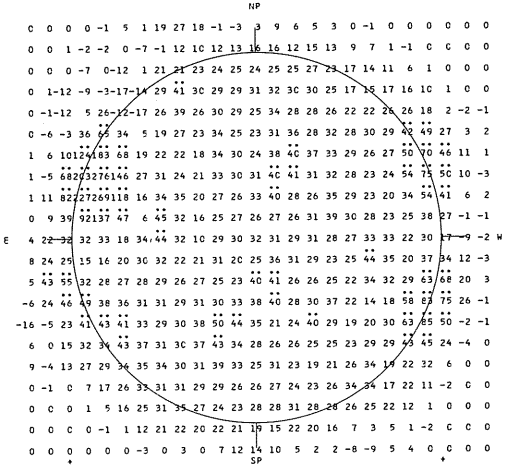
9.1 CM SPECTROHELICGRAM
STANFORD, G1 OCT 1966 20-21 HRS UT. S = 101(NRC) BRIGHTNESS UNIT = 1000 K



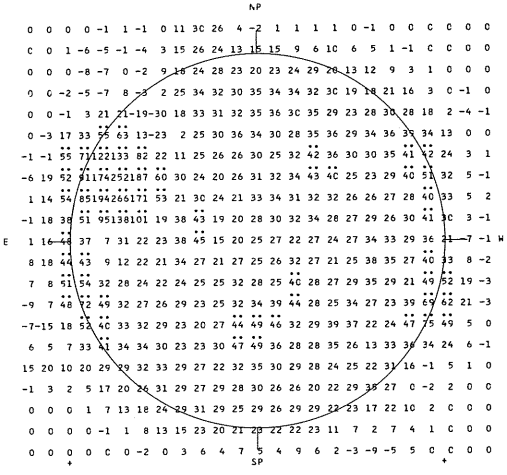
9.1 CM SPECTROHELICGRAM
STANFORD, C2 OCT 1966 20-21 HOURS UT. S = 102 BRIGHTNESS UNIT = 1000 K



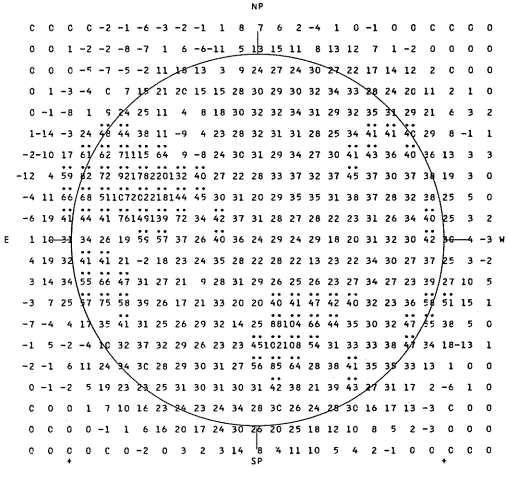
9.1 CM SPECTROHELICGRAM
STANFORD, C3 OCT 1966 20-21 HOURS UT. S = 103 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELICGRAM
STANFORD, C4 OCT 1966 20-21 HOURS UT. S = 101 BRIGHTNESS UNIT = 1000 K



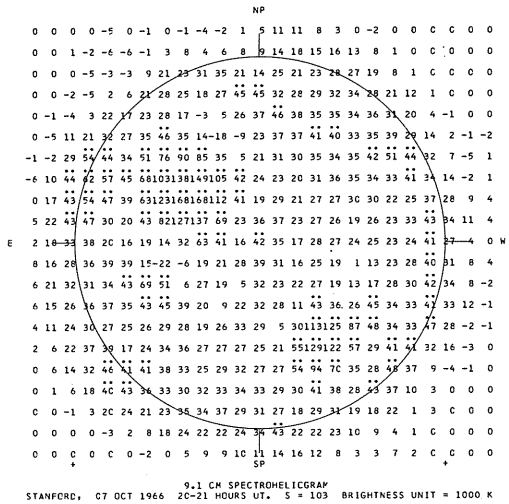
9.1 CM SPECTROHELICGRAM
STANFORD, C5 OCT 1966 20-21 HOURS UT. S = 100 BRIGHTNESS UNIT = 1000 K

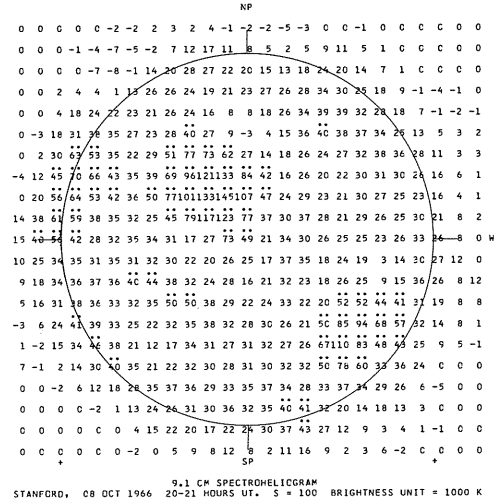


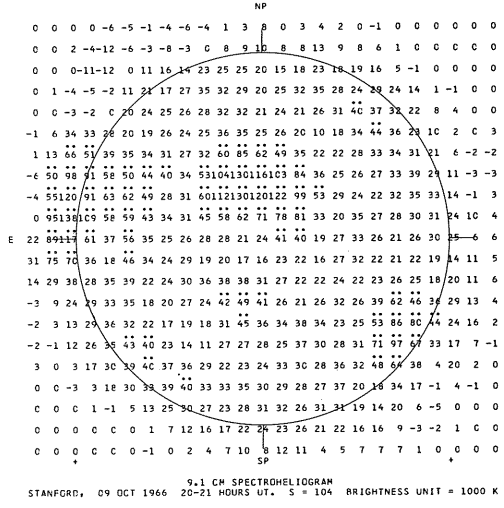
9.1 CM SPECTROHELICGRAM
STANFORD, C6 OCT 1966 20-21 HOURS UT. S = 102 BRIGHTNESS UNIT = 1000 K

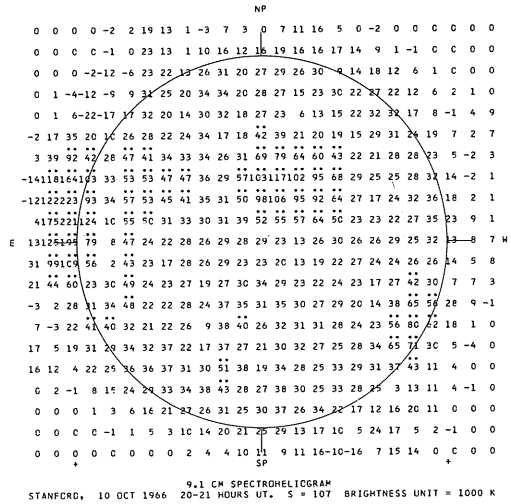
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

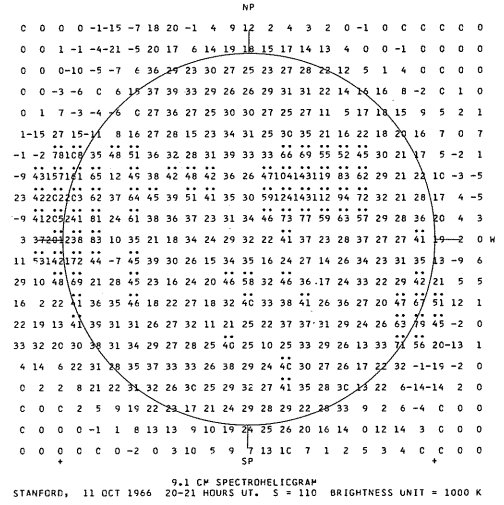
STANFORD — **OCTOBER 1966** — **9.1 cm**

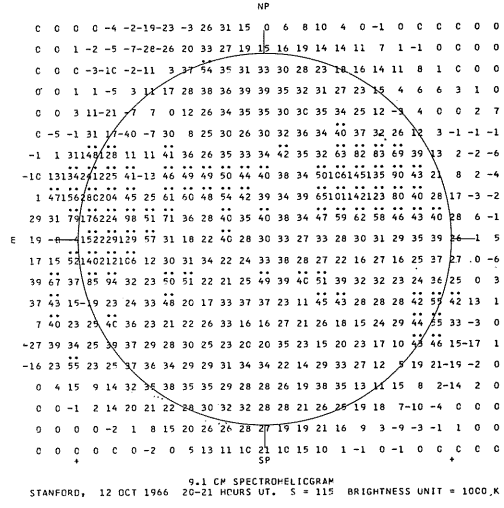






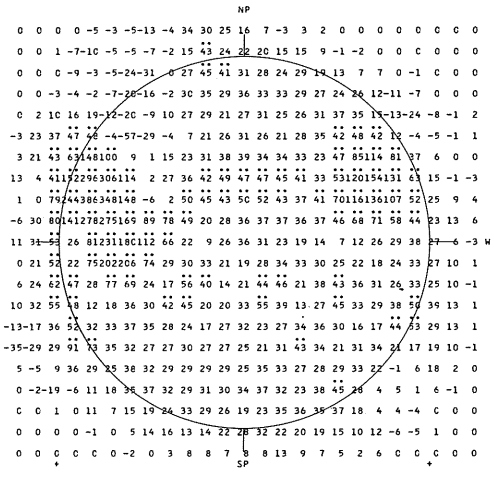




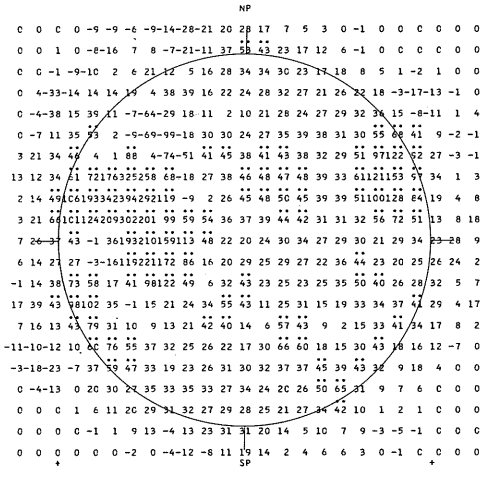


SOLAR RADIO EMISSION SPECTROHELIOGRAMS

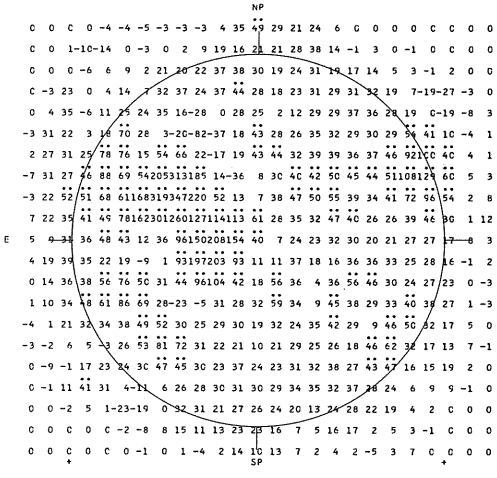
STANFORD — **OCTOBER 1966** — **9.1 cm**



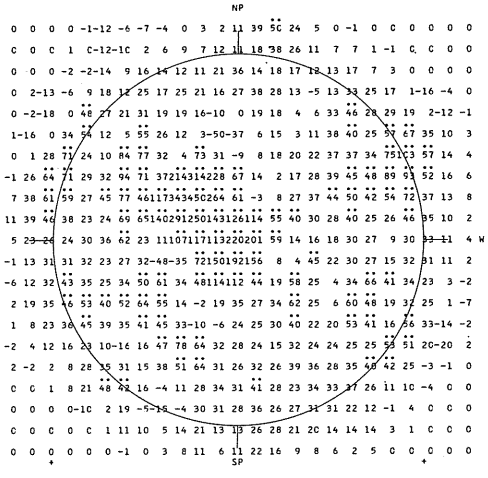
9.1 CM SPECTROHELICGRAM
STANFORD, 13 OCT 1966 20-21 HOURS UT. S = 123 BRIGHTNESS UNIT = 1000 K



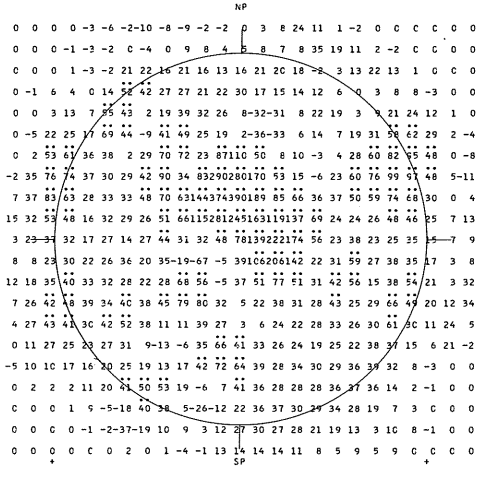
9.1 CM SPECTROHELICGRAM
STANFORD, 14 OCT 1966 20-21 HOURS UT. S = 121 BRIGHTNESS UNIT = 1000 K



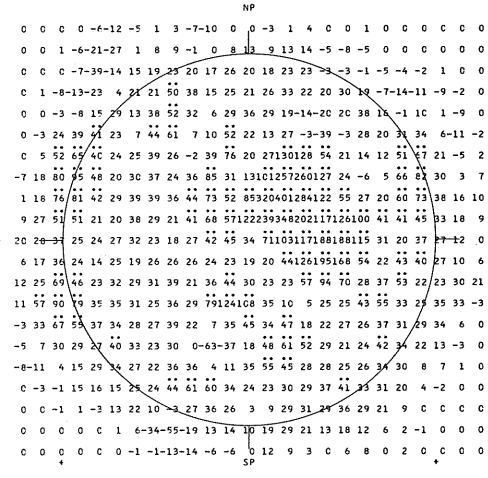
9.1 CM SPECTROHELICGRAM
STANFORD, 15 OCT 1966 20-21 HOURS UT. S = 121 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELICGRAM
STANFORD, 16 OCT 1966 20-21 HOURS UT. S = 121 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELICGRAM
STANFORD, 17 OCT 1966 20-21 HOURS UT. S = 121 BRIGHTNESS UNIT = 1000 K



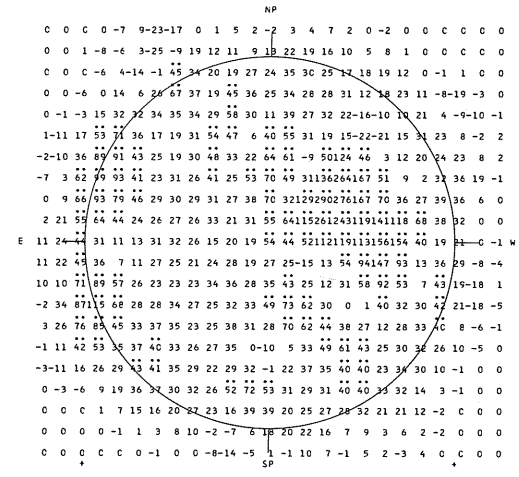
9.1 CM SPECTROHELICGRAM
STANFORD, 18 OCT 1966 20-21 HOURS UT. S = 120 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

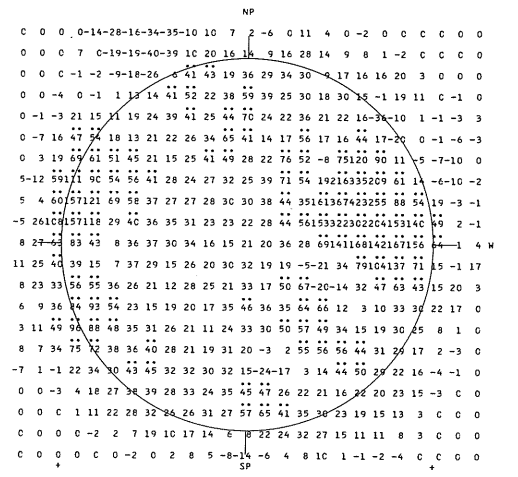
STANFORD

OCTOBER 1966

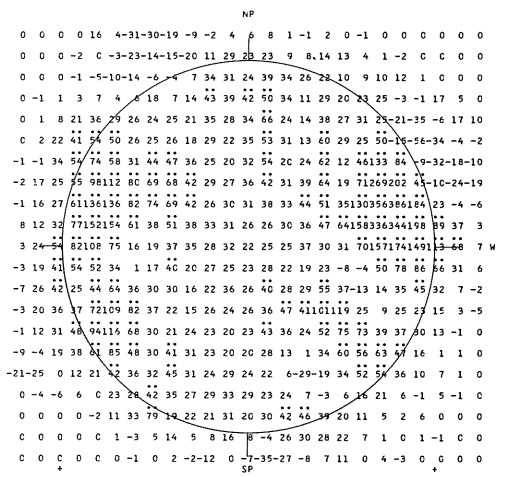
9.1 cm



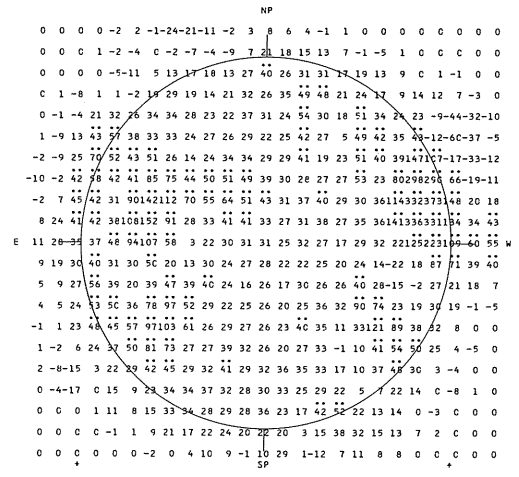
9.1 CM SPECTROHELICGRAM
STANFORD, 19 OCT 1966 20-21 HOURS UT. S = 117 BRIGHTNESS UNIT = 1000 K



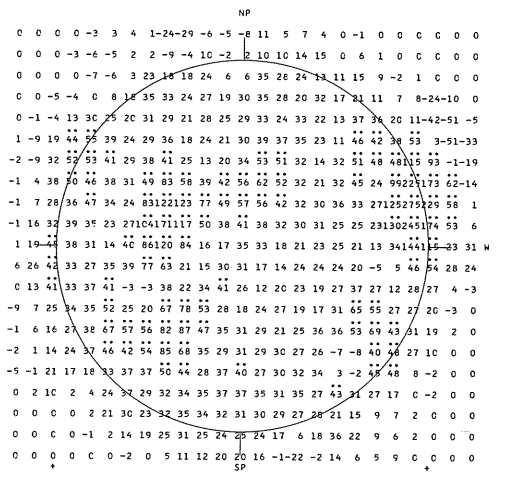
9.1 CM SPECTROHELICGRAM
STANFORD, 20 OCT 1966 20-21 HOURS UT. S = 125 BRIGHTNESS UNIT = 1000 K



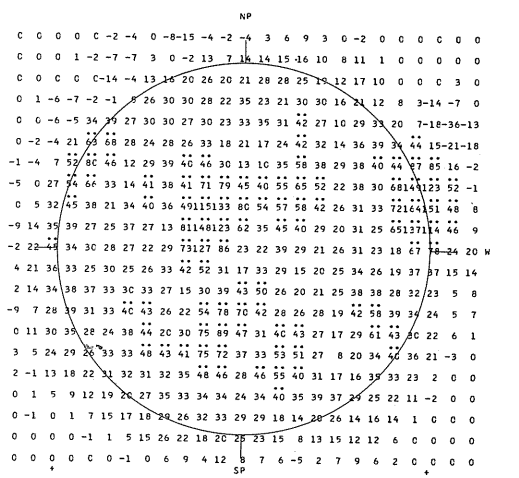
9.1 CM SPECTROHELICGRAM
STANFORD, 21 OCT 1966 20-21 HOURS UT. S = 122 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELICGRAM
STANFORD, 22 OCT 1966 20-21 HOURS UT. S = 121 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELICGRAM
STANFORD, 23 OCT 1966 20-21 HOURS UT. S = 112 BRIGHTNESS UNIT = 1000 K



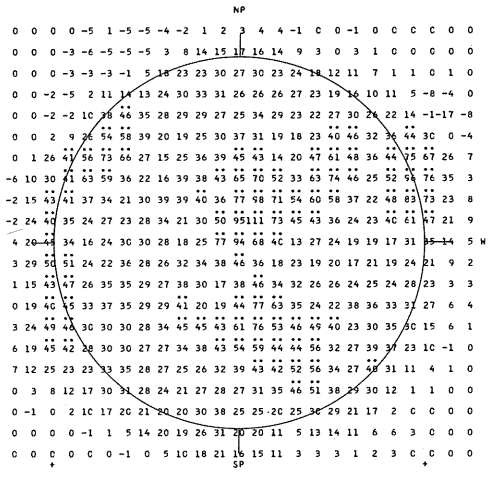
9.1 CM SPECTROHELICGRAM
STANFORD, 24 OCT 1966 20-21 HOURS UT. S = 107 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

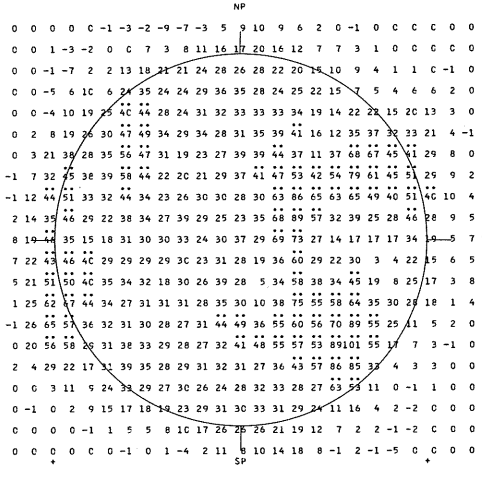
STANFORD

OCTOBER 1966

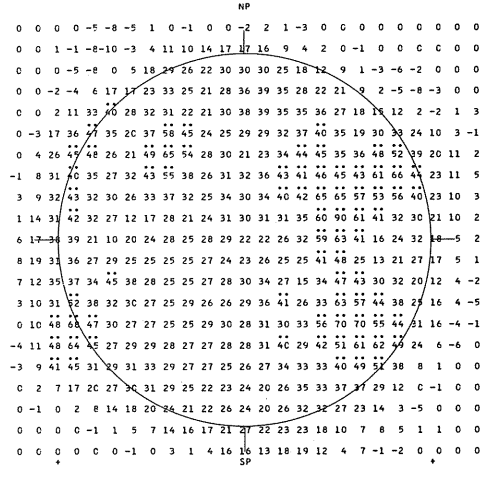
9.1 cm



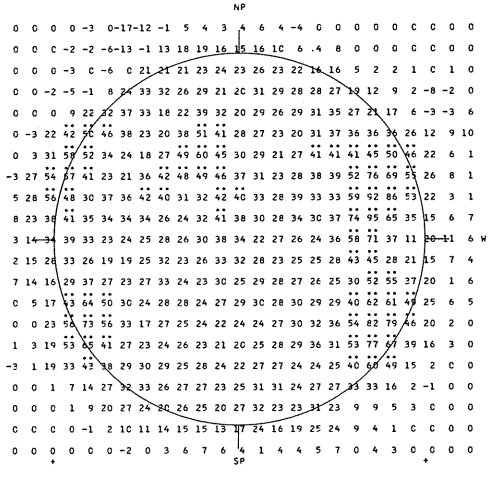
9.1 CM SPECTROHELICGRAM
STANFORD, 25 OCT 1966 20-21 HOURS UT. S = 102 BRIGHTNESS UNIT = 1000 K



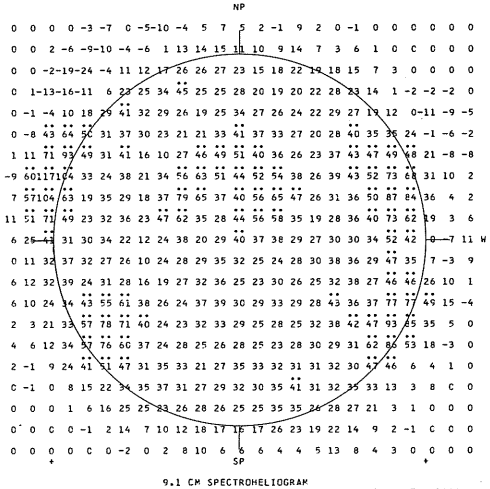
9.1 CM SPECTROHELICGRAM
STANFORD, 26 OCT 1966 20-21 HOURS UT. S = 99 BRIGHTNESS UNIT = 1000 K



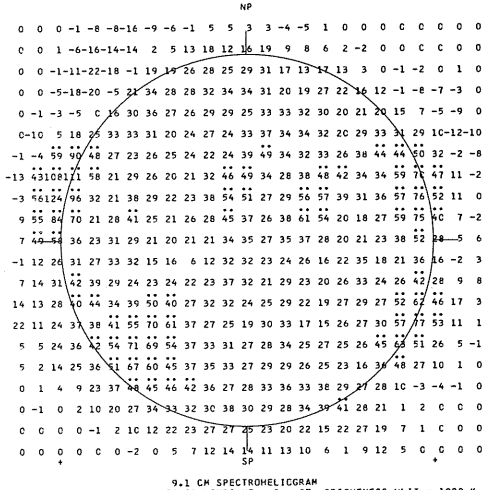
9.1 CM SPECTROHELIOGRAM
STANFORD, 27 OCT 1966 20-21 HOURS UT. S = 93 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELICGRAM
STANFORD, 28 OCT 1966 20-21 HOURS UT. S = 95 BRIGHTNESS UNIT = 1000 K



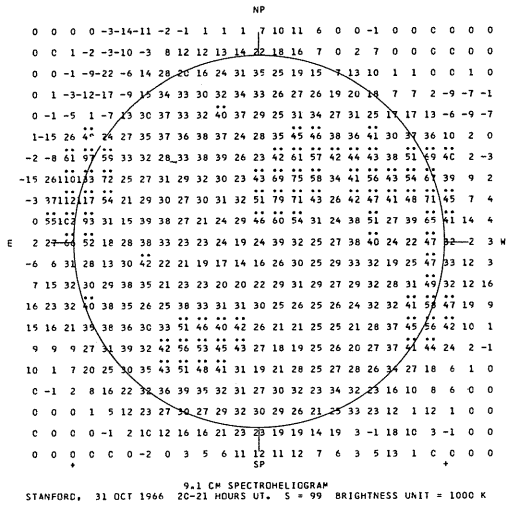
9.1 CM SPECTROHELICGRAM
STANFORD, 29 OCT 1966 20-21 HOURS UT. S = 101 BRIGHTNESS UNIT = 1000 K



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

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD — **OCTOBER 1966** — **9.1 cm**



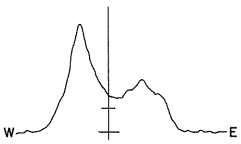
9.1 CM SPECTROHELIOGRAM
STANFORD, 31 OCT 1966 20-21 HOURS UT. S = 99 BRIGHTNESS UNIT = 1000 K

FLEURS, AUSTRALIA

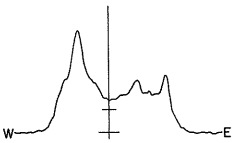
EAST - WEST SOLAR SCANS

October 1966

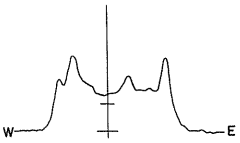
21 cm
Fan - Beam with 2 minutes of arc
E - W Resolution



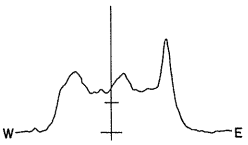
1966 October 1 0139 U.T.



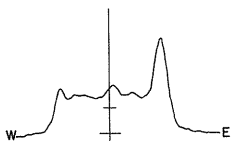
1966 October 2 0150 U.T.



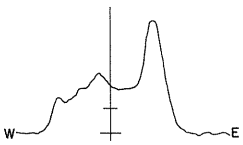
1966 October 3 0058 U.T.



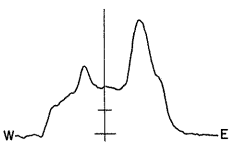
1966 October 4 0146 U.T



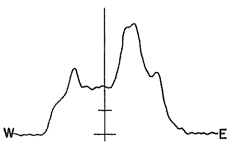
1966 October 5 0146 U.T.



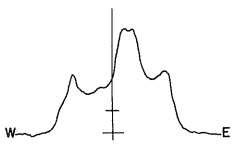
1966 October 6 0109 U.T.



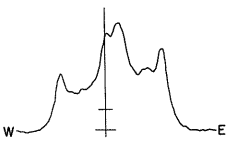
1966 October 7 0057 U.T.



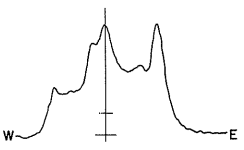
1966 October 8 0145 U.T.



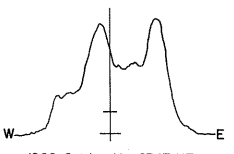
1966 October 9 0144 U.T.



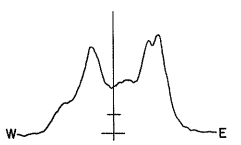
1966 October 10 0104 U.T.



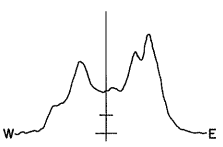
1966 October 11 0144 U.T.



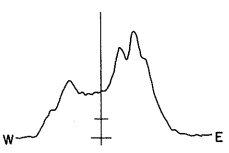
1966 October 11 2347 U.T.



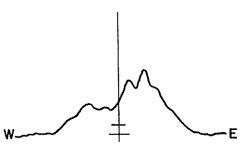
1966 October 13 0103 U.T.



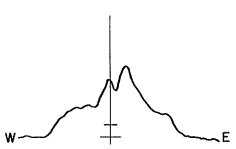
1966 October 14 0055 U.T.



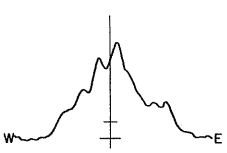
1966 October 15 0151 U.T.



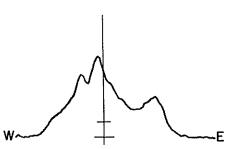
1966 October 16 0143 U.T.



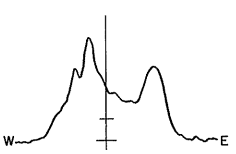
1966 October 17 0142 U.T.



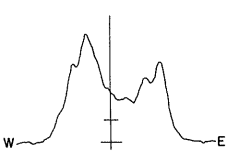
1966 October 18 0142 U.T.



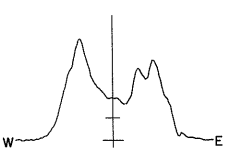
1966 October 19 0142 U.T.



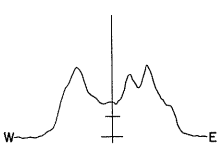
1966 October 20 0142 U.T



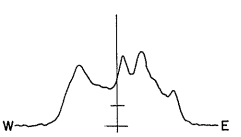
1966 October 21 0057 U.T.



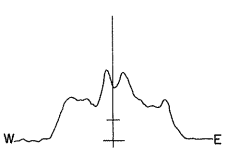
1966 October 22 0142 U.T.



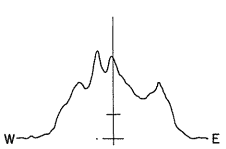
1966 October 23 0145 U.T.



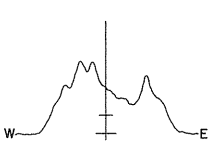
1966 October 24 0101 U.T.



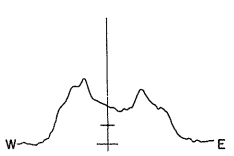
1966 October 25 0141 U.T.



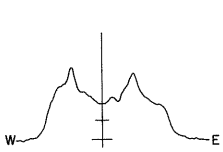
1966 October 26 0052 U.T.



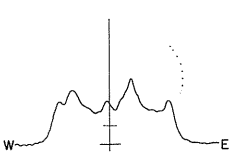
1966 October 27 0141 U.T.



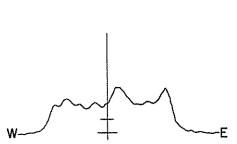
1966 October 28 0141 U.T.



1966 October 29 0141 U.T



1966 October 30 0141 U.T.



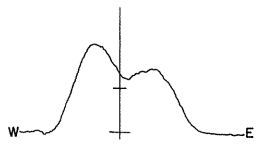
1966 October 31 0141 U.T.

EAST - WEST SOLAR SCANS

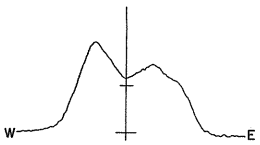
October 1966

FLEURS, AUSTRALIA

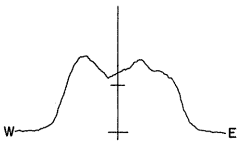
43 cm
Fan - Beam with 4 minutes of arc
E-W Resolution



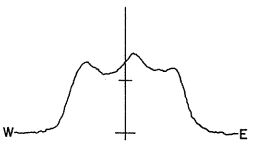
1966 October 1 0147 U.T.



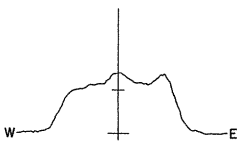
1966 October 2 0147 U.T.



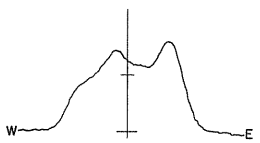
1966 October 3 0146 U.T.



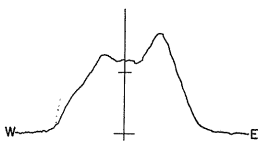
1966 October 4 0146 U.T.



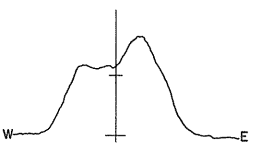
1966 October 5 0145 U.T.



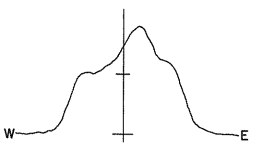
1966 October 6 0145 U.T.



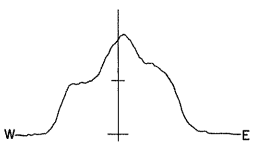
1966 October 7 0145 U.T.



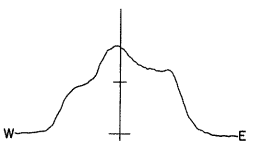
1966 October 8 0152 U.T.



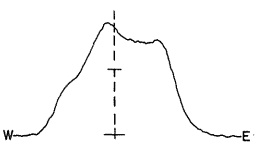
1966 October 9 0136 U.T.



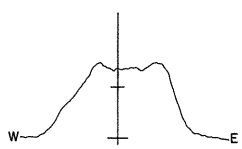
1966 October 10 0136 U.T.



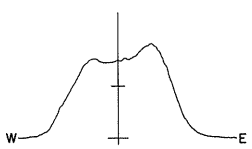
1966 October 11 0144 U.T.



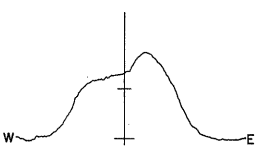
1966 October 11 2304 U.T.



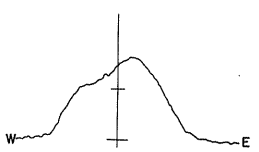
1966 October 13 0143 U.T.



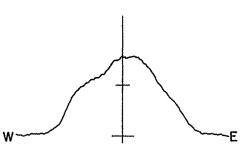
1966 October 14 0143 U.T.



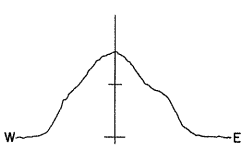
1966 October 15 0159 U.T.



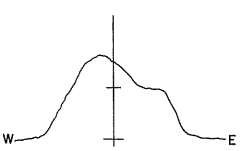
1966 October 16 0151 U.T.



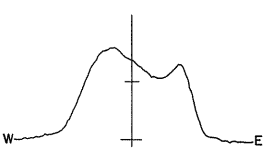
1966 October 17 0159 U.T.



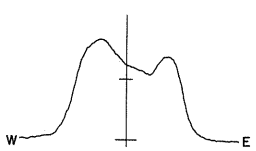
1966 October 18 0150 U.T.



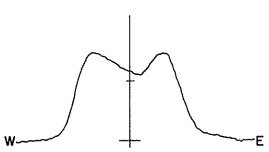
1966 October 19 0134 U.T.



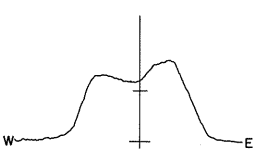
1966 October 20 0142 U.T.



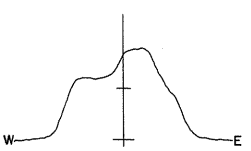
1966 October 21 0142 U.T.



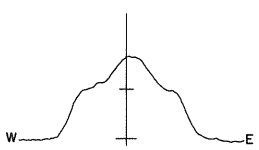
1966 October 22 0142 U.T.



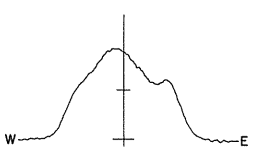
1966 October 23 0158 U.T.



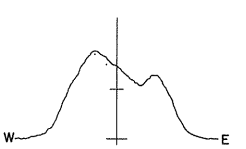
1966 October 24 0141 U.T.



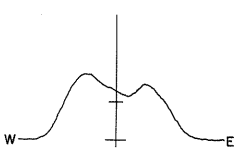
1966 October 25 0141 U.T.



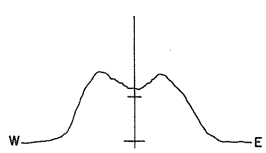
1966 October 26 0124 U.T.



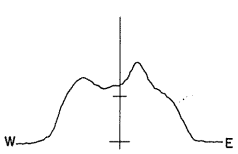
1966 October 27 0141 U.T.



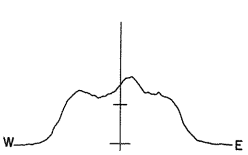
1966 October 28 0141 U.T.



1966 October 29 0141 U.T.



1966 October 30 0141 U.T.



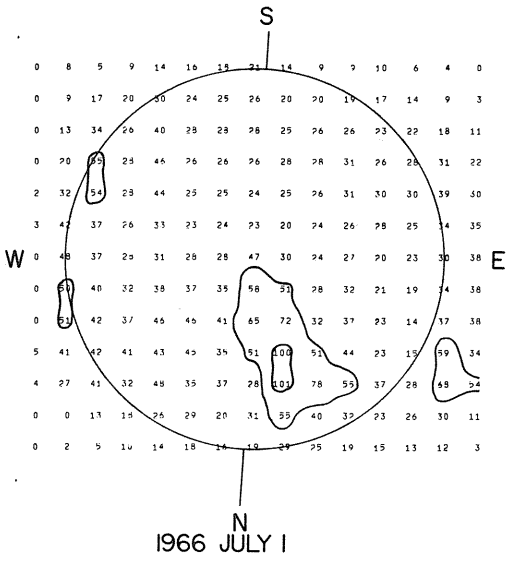
1966 October 31 0141 U.T

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

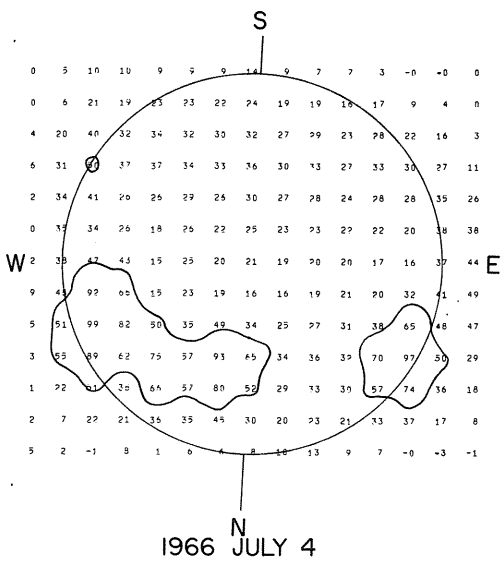
FLEURS, AUSTRALIA

JULY 1966

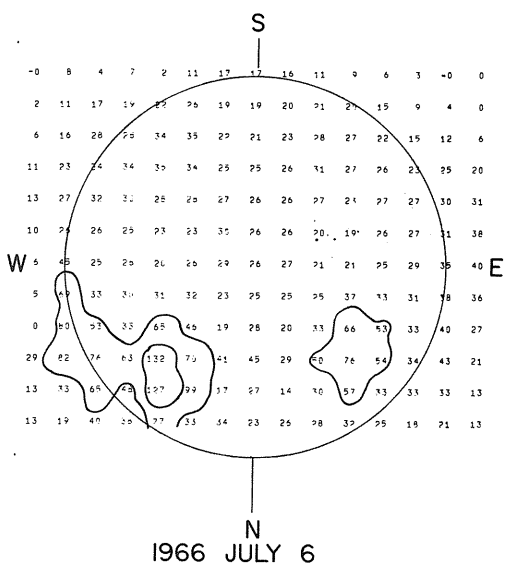
21cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



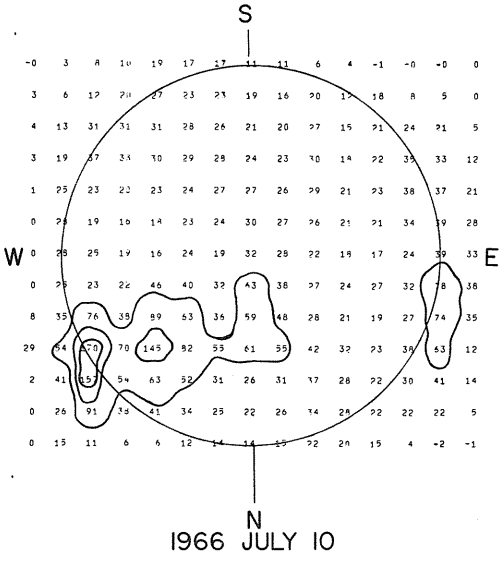
1966 JULY 1



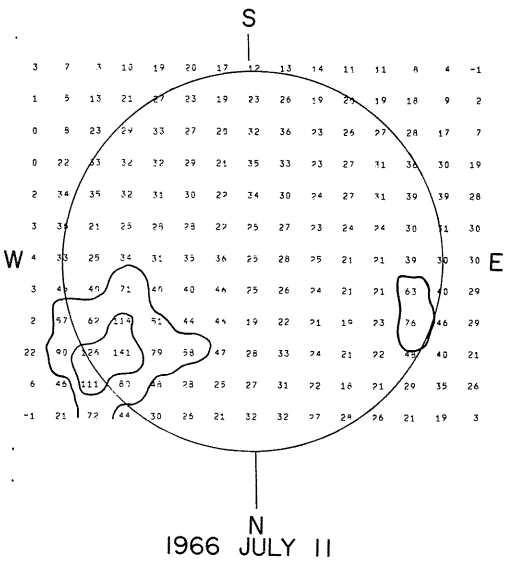
1966 JULY 4



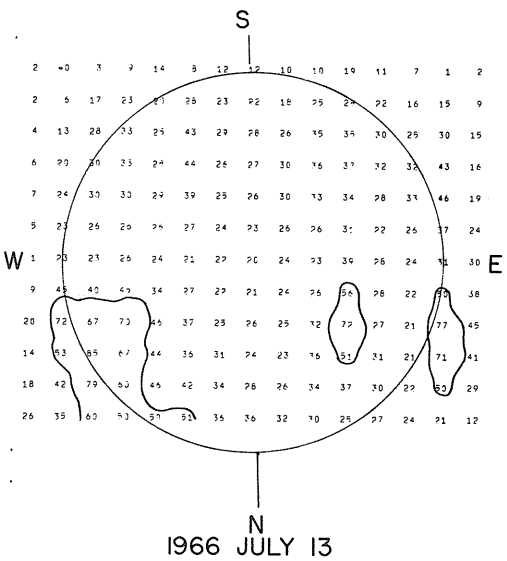
1966 JULY 6



1966 JULY 10



1966 JULY 11



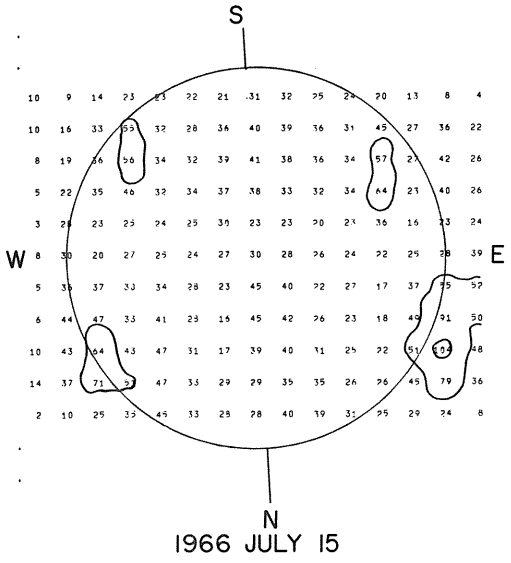
1966 JULY 13

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

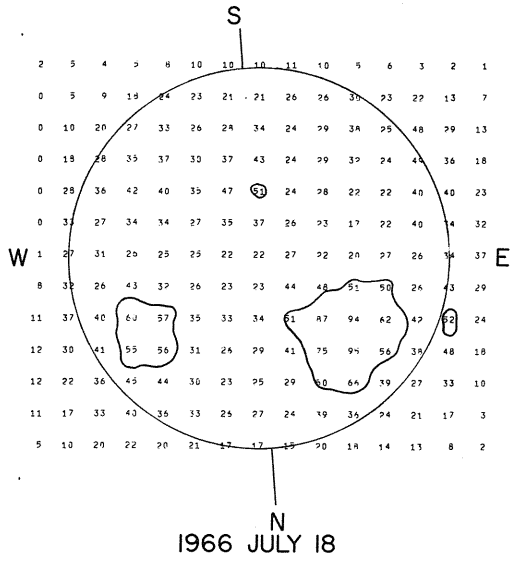
FLEURS, AUSTRALIA

JULY 1966

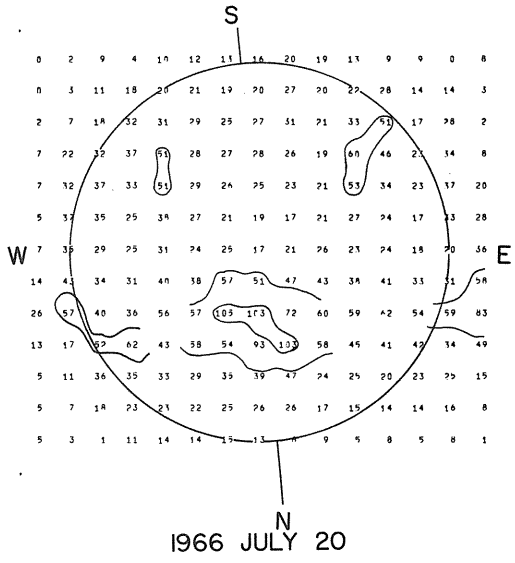
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



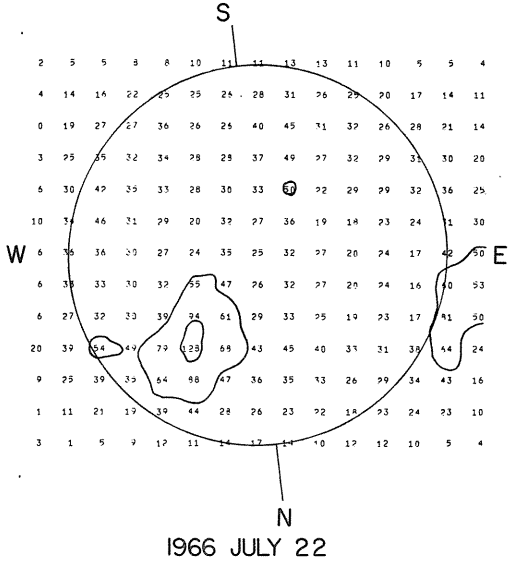
1966 JULY 15



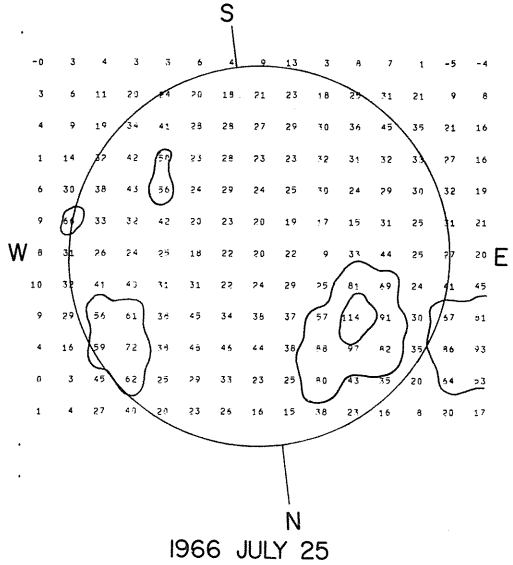
1966 JULY 18



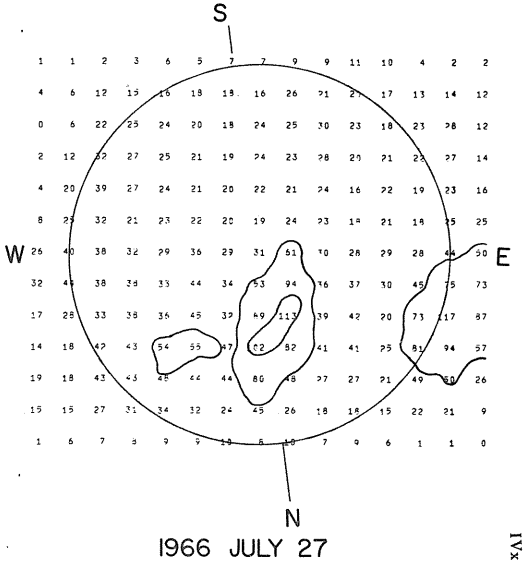
1966 JULY 20



1966 JULY 22



1966 JULY 25



1966 JULY 27

IVx

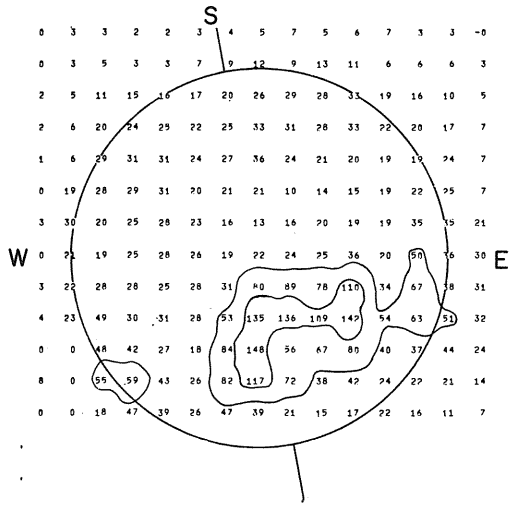
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

FLEURS, AUSTRALIA

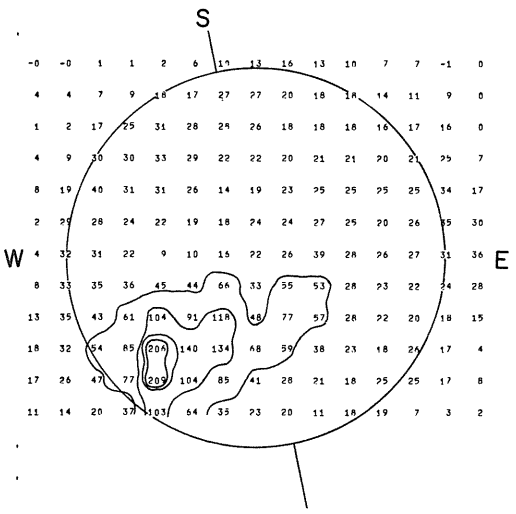
AUGUST 1966

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

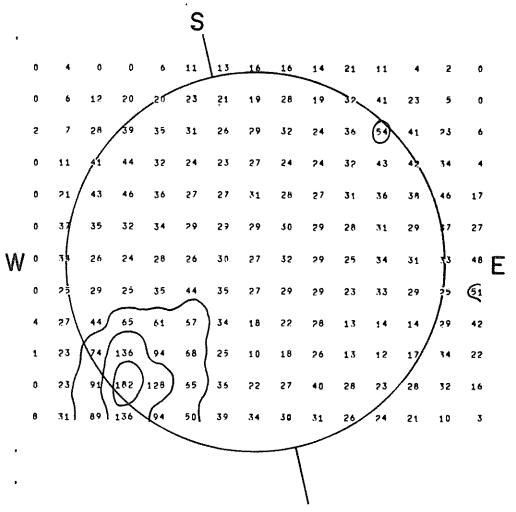
IVy



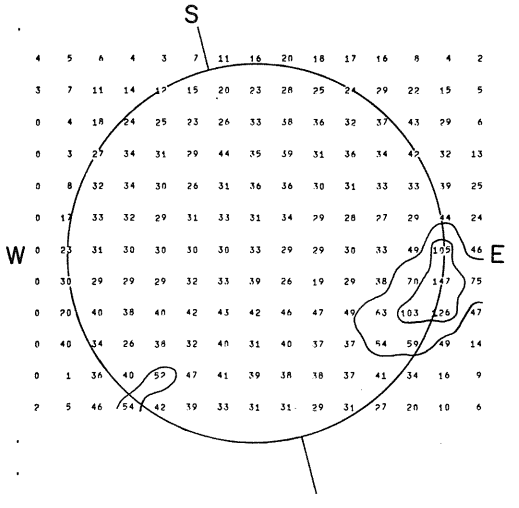
1966 AUGUST 2



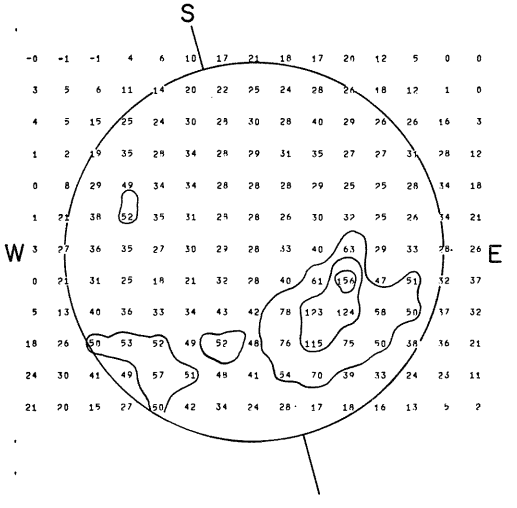
1966 AUGUST 5



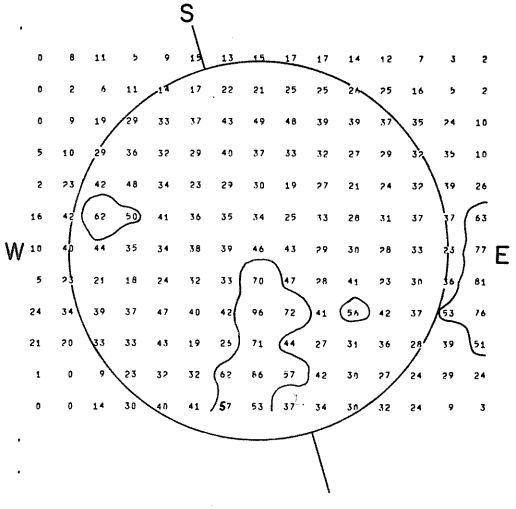
1966 AUGUST 8



PROVISIONAL BR 1966 AUGUST 12



1966 AUGUST 15



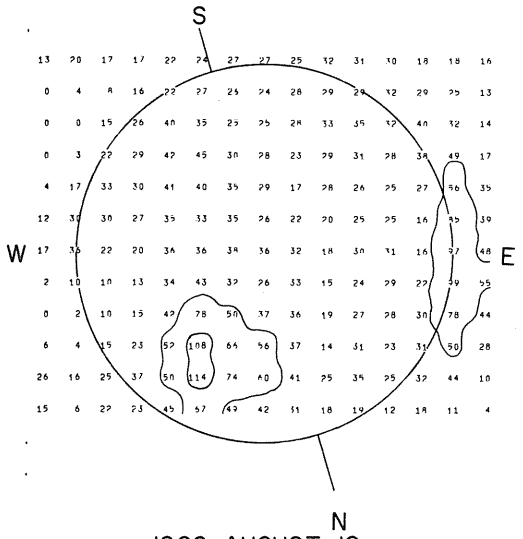
1966 AUGUST 17

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

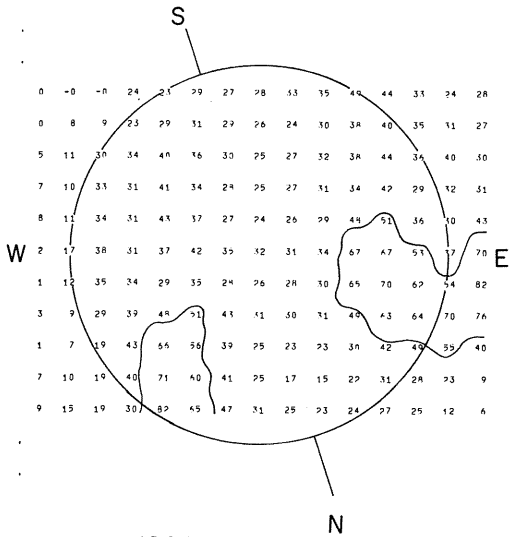
FLEURS, AUSTRALIA

AUGUST SEPTEMBER 1966

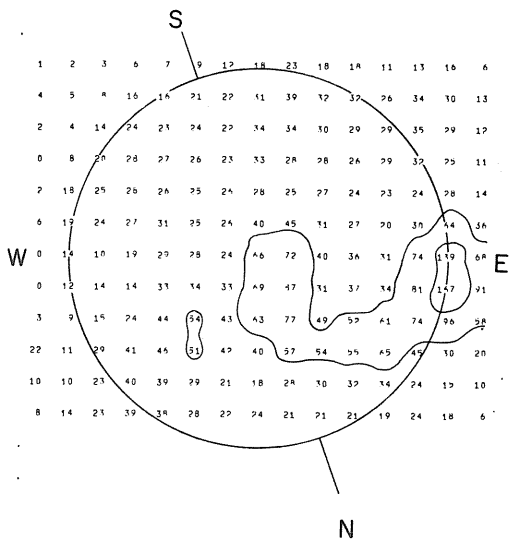
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



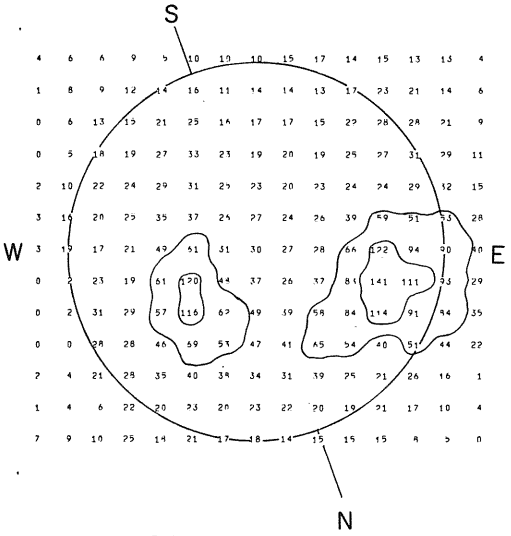
1966 AUGUST 19



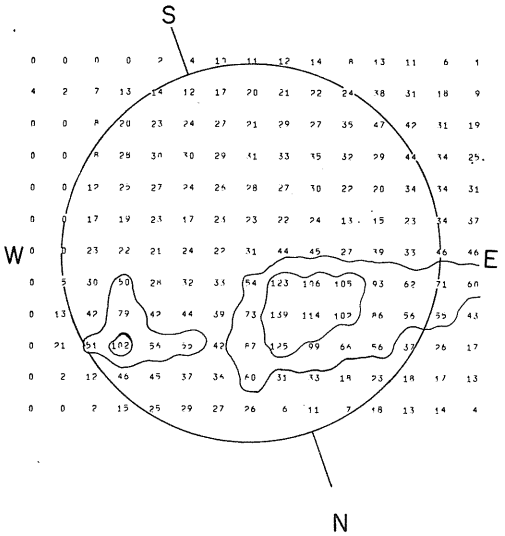
1966 AUGUST 22



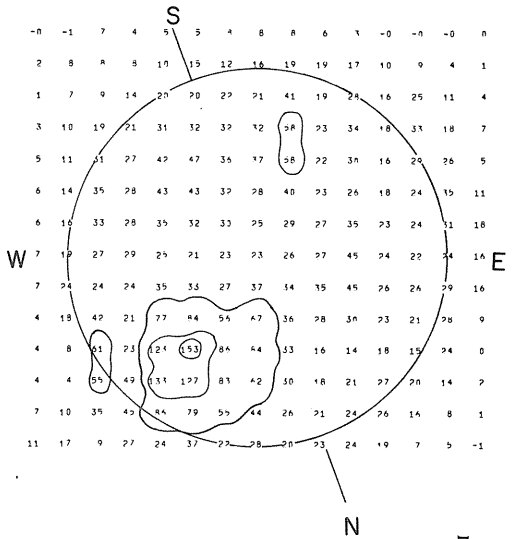
1966 AUGUST 24



1966 AUGUST 26



1966 AUGUST 29



1966 SEPTEMBER 1

IV2

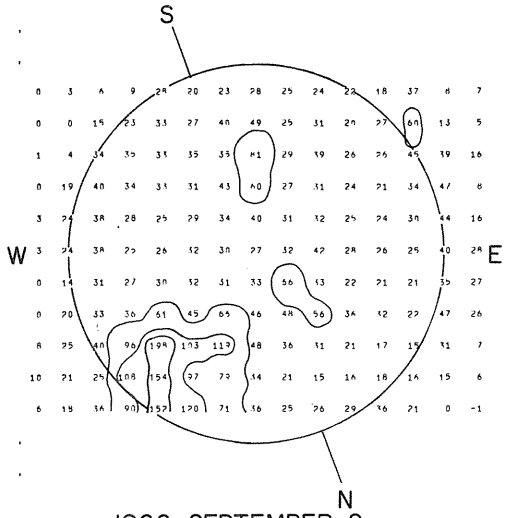
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

FLEURS, AUSTRALIA

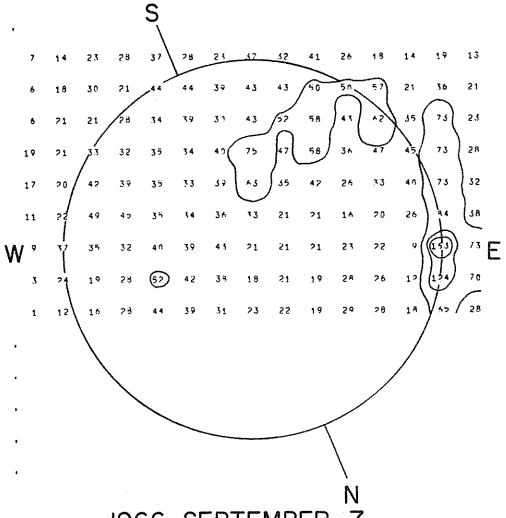
SEPTEMBER 1966

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

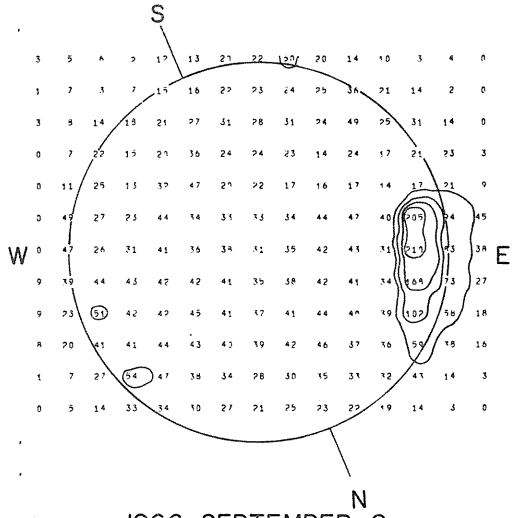
IV.a.1



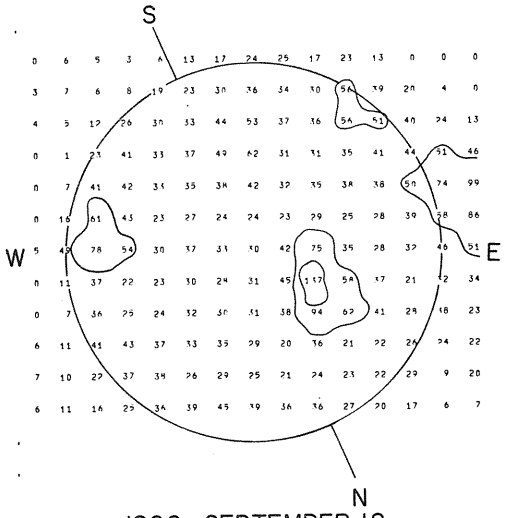
1966 SEPTEMBER 2



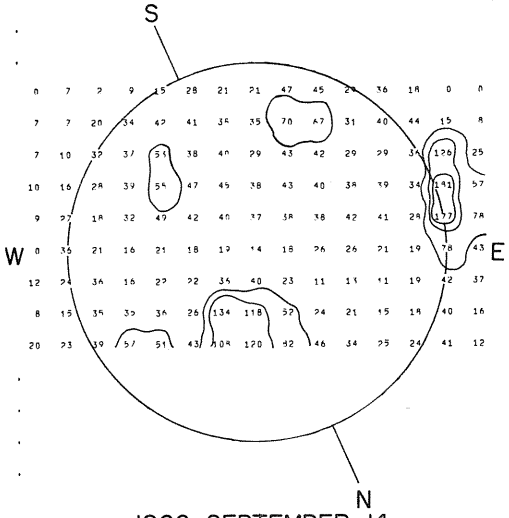
1966 SEPTEMBER 7



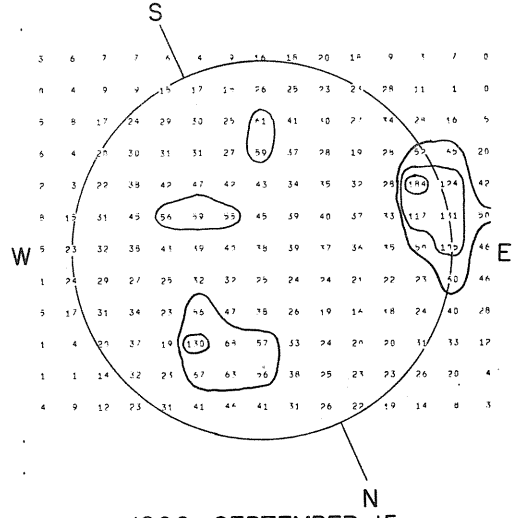
1966 SEPTEMBER 9



1966 SEPTEMBER 12



1966 SEPTEMBER 14



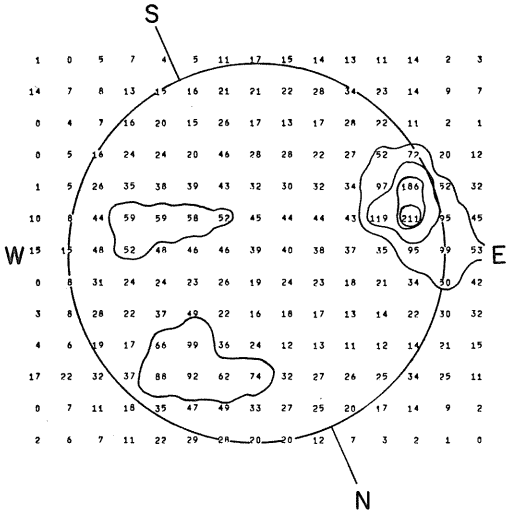
1966 SEPTEMBER 15

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

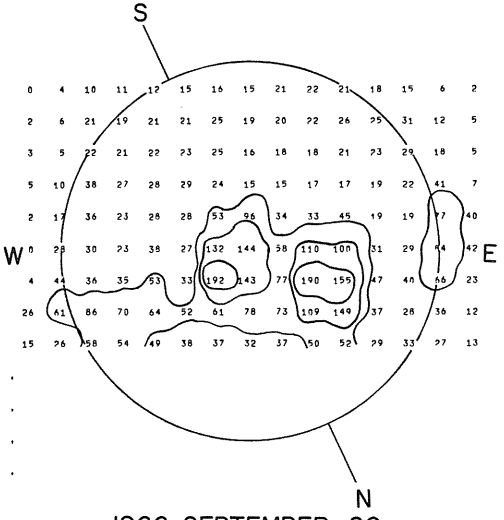
FLEURS, AUSTRALIA

SEPTEMBER 1966

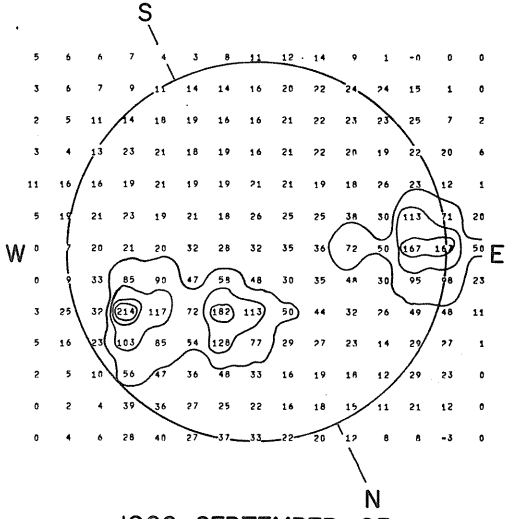
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



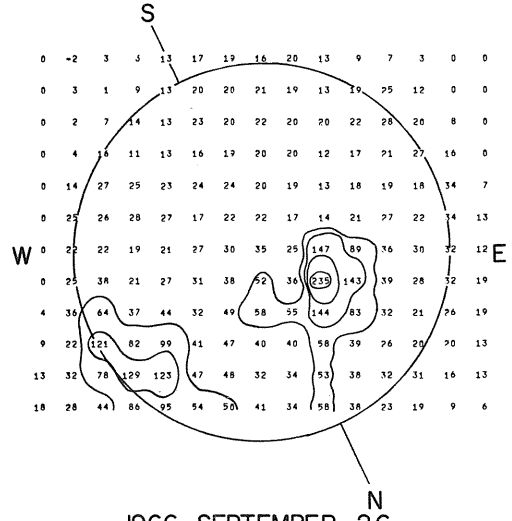
1966 SEPTEMBER 16



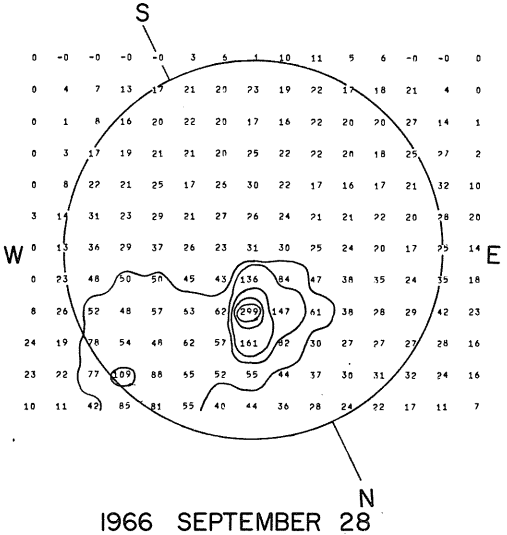
1966 SEPTEMBER 20



1966 SEPTEMBER 23



1966 SEPTEMBER 26



1966 SEPTEMBER 28

IVb4

COSMIC RAY INDICES

(Neutron Monitors)

SEPTEMBER 1966

SEPT. 1966	CHURCHILL	DEEP RIVER	CLIMAX	DALLAS
	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR
1	*	6517.9	3911.8	*
2		6553.9	3929.2	
3		6531.0	3922.8	
4		6383.2	3881.3	
5		6464.5	3882.9	
6		6507.9	3893.1	
7		6547.7	3900.7	
8		6655.0	4006.2	
9		6745.0	4067.8	
10		6795.9	4107.2	
11		6827.6	4104.7	
12		6825.2	4113.4	
13		6823.5	4116.2	
14		6784.4	4076.0	
15		6666.6	3974.3	
16		6610.5	3949.3	
17		6602.7	3945.8	
18		6612.9	3950.1	
19		6572.3	3920.3	
20		6605.1	3927.8	
21		6617.2	3947.4	
22		6644.0	3954.7	
23		6645.2	3942.3	
24		6404.7	3805.2	
25		6424.5	3811.3	
26		6497.5	3865.2	
27		6561.3	3921.2	
28		6594.2	3946.7	
29		6599.1	3943.7	
30		6629.1	3960.1	

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

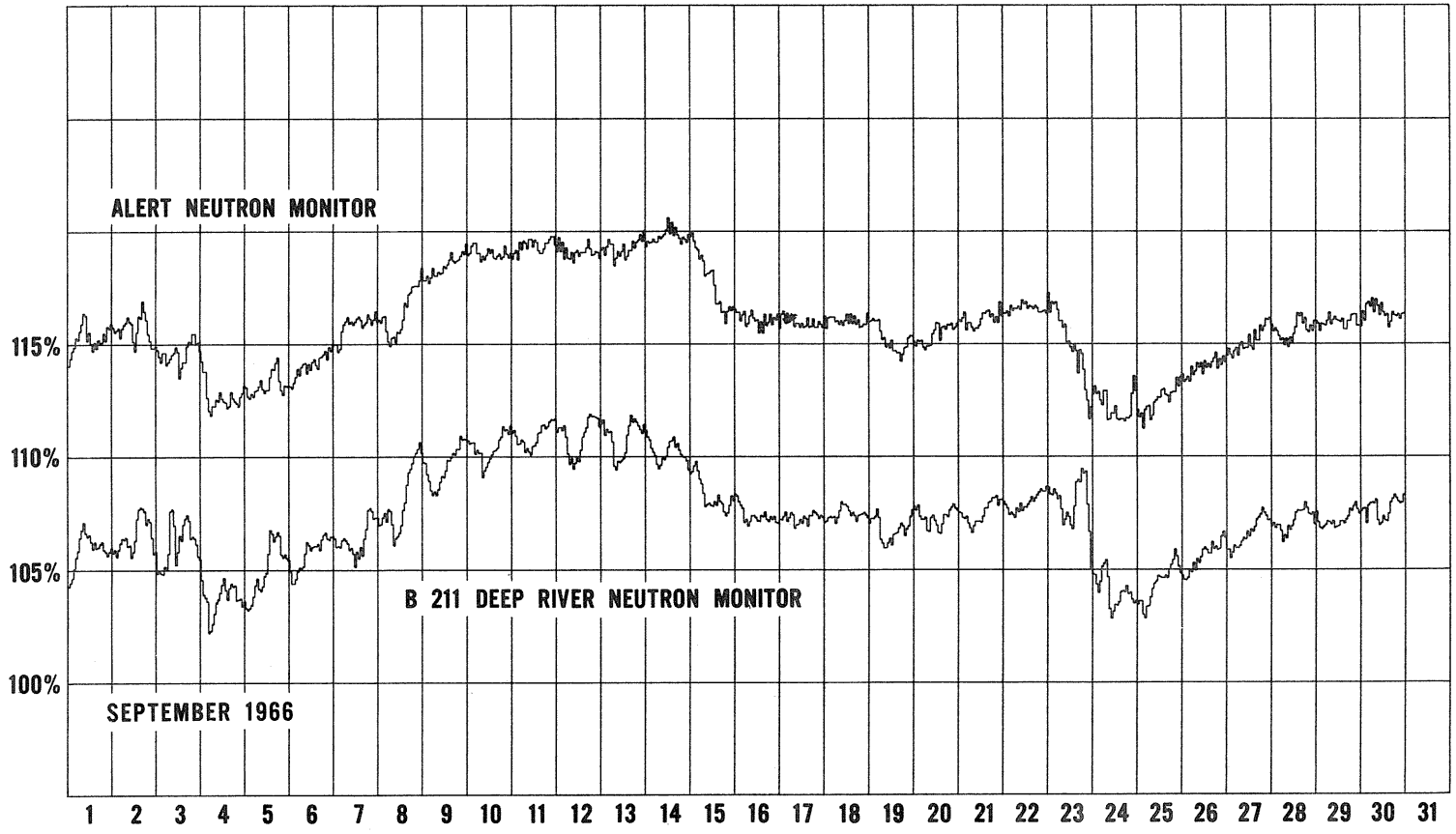
Deep River Neutron Monitor, Scaling Factor 300.

Climax IGC Station B305, Scaling Factor 100.

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

SEPTEMBER 1966



GEOMAGNETIC ACTIVITY INDICES

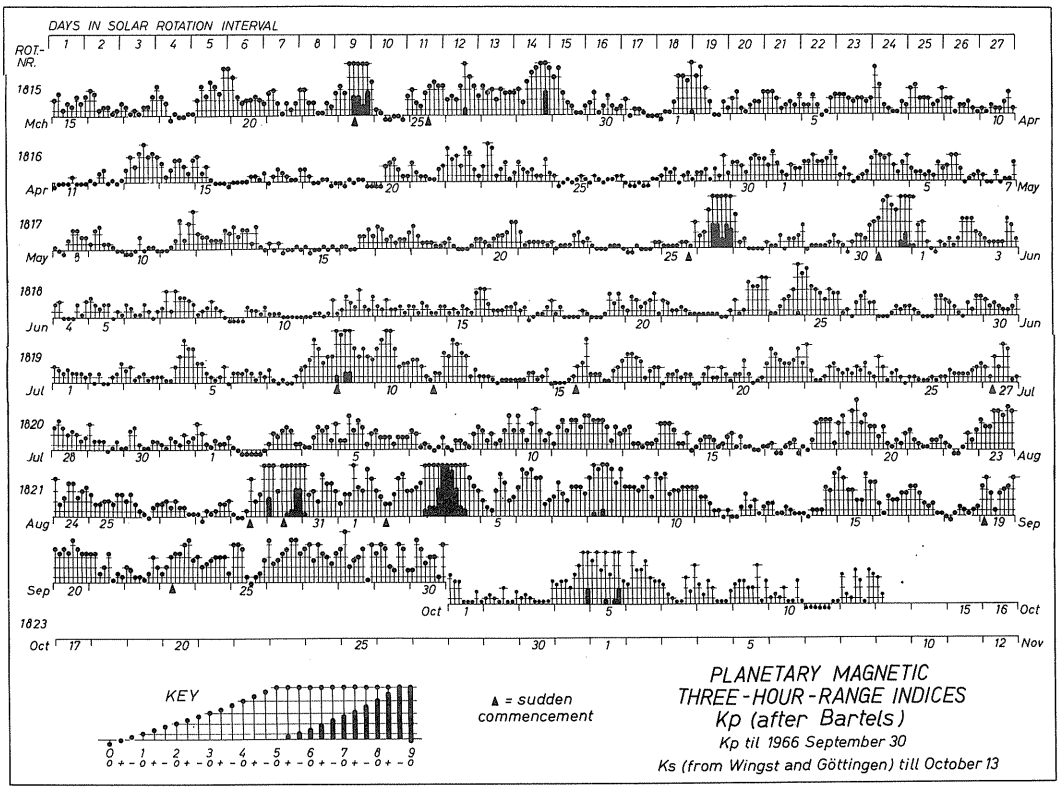
SEPTEMBER 1966

DAY		Kp THREE-HOUR RANGE INDICES 1	2	3	4	5	6	7	8	SUM	Ci	Cp	Ap
1	D	2-	3-	3-	5	3+	3	5-	4	27	1.3	1.1	22
2		3	2+	2-	2-	3-	4	4+	3	23-	1.1	0.9	15
3	D	3	3+	4-	6-	6	6	7+	9-	44-	1.8	1.9	92
4	D	9-	8+	7+	6	6-	4	3+	3	46+	1.9	1.9	112
5		2	1+	1	3	4+	4-	2	2+	20-	1.0	0.7	13
6	D	3+	5-	4+	5-	4	4	2-	2	29-	1.2	1.2	24
7		2+	4-	3-	2	3+	3+	3+	3-	23+	1.0	0.8	14
8	D	4	5+	5-	6-	5	5-	4-	5-	38-	1.4	1.5	42
9		3+	3+	3+	3	3+	4	2+	4+	27	1.1	1.0	19
10		4	4+	3-	3	3	3+	3+	3+	27	1.1	1.0	19
11	QQ	3+	2+	2+	2-	1	1	0+	1	13	0.2	0.4	7
12	QQ	0+	0+	1+	3-	1+	2	1-	1+	10	0.2	0.2	5
13	QQ	2-	2-	1-	1-	1+	1	1-	1-	8+	0.1	0.1	4
14	Q	1-	0+	1	1	1	3+	3	4+	15-	0.8	0.6	10
15		5-	4	3	3	2	2	4+	4-	27-	1.0	1.0	20
16	Q	4-	2-	1-	2+	2	2	3-	3-	18-	0.7	0.5	10
17	Q	3+	3+	3-	2-	1+	2-	1-	1-	15+	0.4	0.5	9
18	QQ	0+	0	1-	1+	1	1-	1	1+	6+	0.0	0.1	3
19		3+	4	3-	1	3-	3	3+	4	24	1.0	0.9	17
20		4-	3+	4-	3+	4+	4-	3+	3+	29-	1.1	1.1	21
21	Q	3+	3+	1+	2	3+	1-	1+	1	16+	0.6	0.5	10
22	QQ	2	2-	1	1	1-	1+	3	2	13-	0.4	0.3	6
23		1+	2	3	3+	3+	4	4+	3-	24	1.1	0.9	17
24	Q	3	2	2+	3-	3	3	3	1+	20+	0.8	0.7	12
25		4	4	4-	1	0+	1	1+	3-	18	0.7	0.7	13
26		4+	2+	3-	3+	4-	4+	4+	3+	28+	1.2	1.1	22
27		4-	4	3-	4	3+	3	2+	3+	26+	1.0	1.0	18
28		4-	5	2	3-	3	4-	1-	4	25-	1.1	1.0	22
29		3+	4	4-	2	2-	4	4-	2-	24	0.9	0.9	17
30		2-	4+	4-	2+	3	3	1	4	23	1.0	0.9	16
										MEAN	0.91	0.85	21

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

Preliminary storm sudden commencements (ssc) occurred September 02 at 0823UT, September 19 at 0251UT and September 23 at 0856UT.

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

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

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

NORTH ATLANTIC, NORTH PACIFIC — SEPTEMBER 1966

SEP. 1966	WHOLE DAY INDICES: NORTH ATLANTIC	NORTH PACIFIC	AVERAGE HIGH LATITUDE	ADVANCE FORECASTS (J_c-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC: 6-HOURLY QUALITY FIGURES 00 TO 06	06 TO 12	12 TO 18	18 TO 24	NORTH ATLANTIC: SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF: 00	06	12	18	NORTH PACIFIC: 6-HOURLY QUALITY FIGURES 00 TO 06	06 TO 12	12 TO 18	18 TO 24	GEOMAGNETIC INDICES: K_{FR} HALF DAY (1)	(2)	A_{FR} OBSERVED	PREDICTED	K_{SI} HALF DAY (1)	(2)	A_{SI}
01	6+	6	6	5	7-	5+	7o	7-	5	6	6	7	6	5	6	6	3	3	15	15	(4)	3	23
02	6o	5	6	6	6+	4o	7-	7-	6	5	6	6	5	5	5	5	2	3	13	11	2	3	12
03	5+	5	5	4	6+	4+	6-	4o	6	4	5	5	5	6	5	5	(4)	(5)	45	11	(5)	(7)	118
04	(3o)	5	(4)	3	2+	1+	4-	4+	3	2	3	4	5	5	5	5	(7)	3	79	7	(8)	(4)	179
05	(4o)	5	(4)	5	3-	2+	5+	6o	3	2	5	4	5	5	5	5	2	3	12	7	2	3	17
06	5o	5	5	6	5+	3o	6-	6+	5	3	5	6	5	6	5	5	(4)	3	23	11	(5)	3	41
07	6o	6	6	6	6o	5+	6o	6+	6	5	6	6	5	6	6	6	3	3	14	11	3	3	17
08	5-	5	5	6	6+	4-	4+	5o	6	6	6	5	6	5	5	5	(5)	(4)	35	8	(4)	(5)	83
09	5o	6	6	6	4+	2+	7-	7-	5	4	6	6	5	6	6	6	3	3	20	6	3	3	18
10	6-	6	6	7	6o	3+	6+	7-	6	5	7	7	6	6	6	6	3	3	15	4	3	2	14
11	6+	6	6	7	6+	6-	7-	7o	6	4	7	7	6	6	6	6	2	1	7	4	3	1	9
12	6o	6	6	7	7-	4+	7-	7-	6	6	7	7	6	7	6	6	1	1	3	4	1	1	2
13	6+	6	6	7	6+	6-	7o	7o	7	6	7	7	6	6	5	6	1	0	1	6	1	0	2
14	7-	6	6	7	7-	6-	7o	7o	7	6	7	7	6	7	6	5	1	2	7	8	0	2	4
15	6+	6	6	6	7-	6-	7-	7-	6	5	7	7	6	6	6	6	(4)	2	19	8	3	2	13
16	6+	6	6	7	7-	6-	7-	7o	6	6	7	7	6	6	6	6	1	2	5	8	1	2	6
17	6+	6	6	7	6+	6-	7-	7o	7	6	7	7	6	6	6	6	2	1	7	5	2	1	5
18	7-	6	6	7	7-	6-	7-	7o	7	6	7	7	6	6	7	6	1	2	4	5	1	1	3
19	6+	6	6	7	7-	6-	6+	7-	7	5	7	7	6	6	6	6	3	3	15	11	2	2	11
20	6+	6	6	6	6+	6-	6+	6+	6	6	7	7	6	6	6	6	3	3	15	11	2	3	16
21	6+	6	6	6	6o	6+	7-	7-	6	5	7	7	6	6	6	6	2	2	9	8	2	1	5
22	7-	6	6	6	6+	6+	7-	7o	6	6	7	7	6	6	6	6	2	2	7	11	1	1	3
23	7-	5	6	6	7-	7-	7o	7-	6	6	7	7	6	6	5	5	2	3	14	11	1	3	11
24	6+	5	6	6	6o	6-	7-	7o	6	6	7	7	5	5	5	5	3	3	11	11	2	2	9
25	7-	5	6	6	7-	6-	7o	7o	6	6	7	7	5	5	6	6	3	1	11	8	2	1	9
26	6+	5	6	6	6+	5o	7-	7-	7	6	7	7	6	6	5	5	3	3	15	8	3	3	15
27	6+	5	6	6	6o	5+	7-	7-	6	5	7	7	5	5	5	5	(4)	3	16	6	3	2	13
28	6-	5	5	6	6-	4+	7-	7-	6	6	7	7	5	6	5	6	3	2	16	6	3	3	18
29	6+	6	6	6	6+	6-	7-	7+	6	5	7	7	5	6	6	6	3	3	15	11	3	2	11
30	6+	6	6	6	6+	5+	7-	7-	6	6	7	7	6	6	5	6	3	2	12	15	3	3	15
QUIET			P	14					18	11	20	24											
			S	14					8	8	8	3											
			U	0					1	0	0	0											
			F	0					0	1	0	1											
DISTURBED			P	0					1	3	0	1											
			S	2					2	2	1	1											
			U	0					0	2	0	0											
			F	0					0	3	1	0											

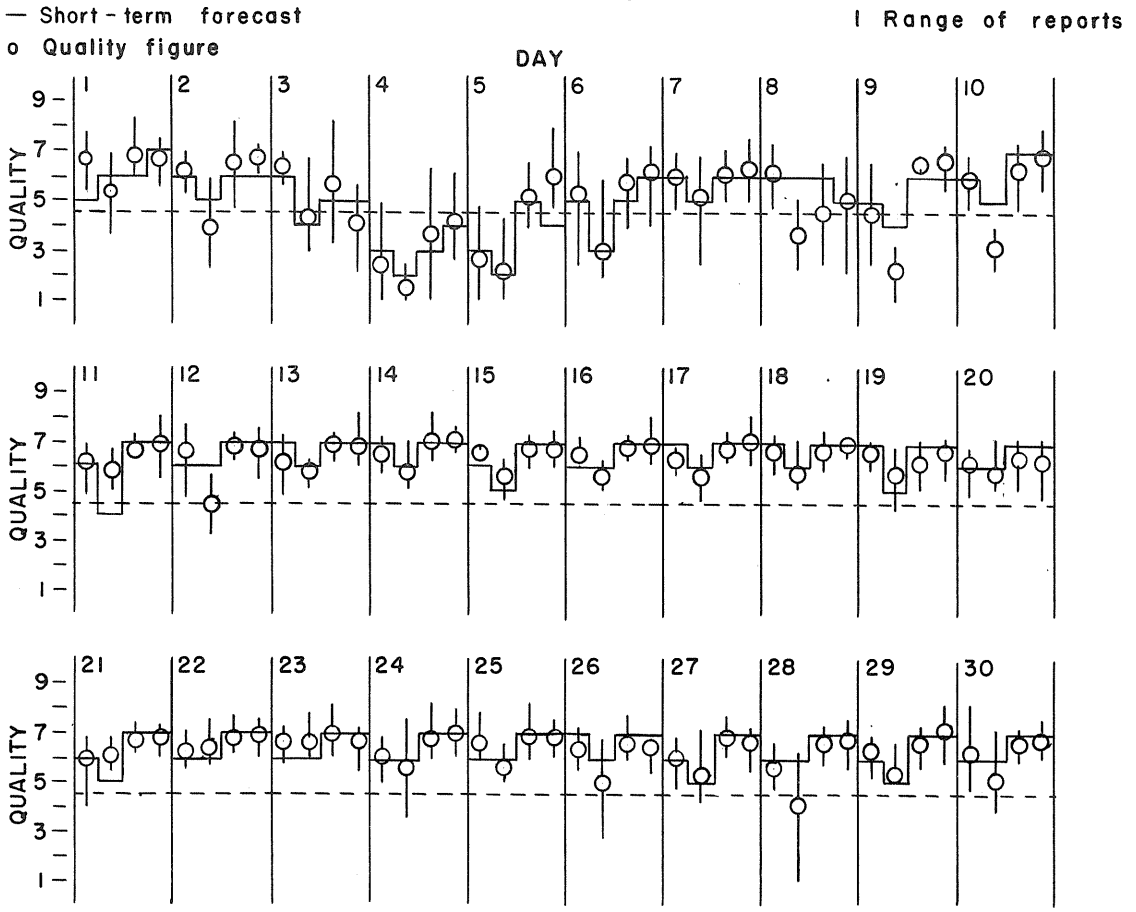
1) THE ADVANCE J_c-FORECASTS ARE SCORED AGAINST THE AVERAGE HIGH LATITUDE WHOLE-DAY INDICES.

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

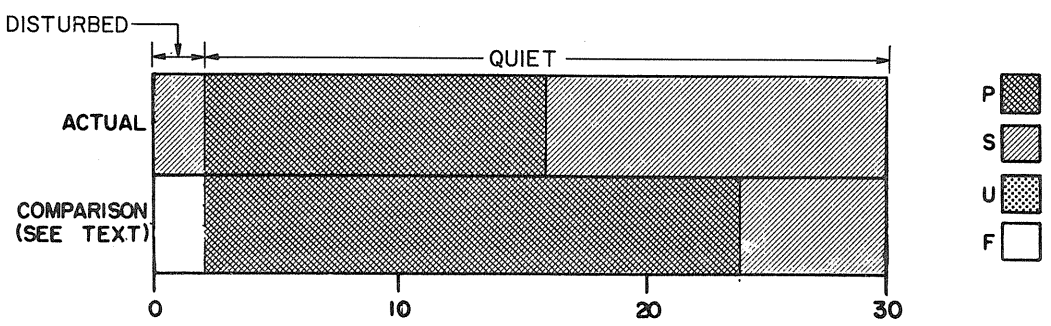
NOTE: A Special Disturbance Warning (SDW) issued September 2 for the period September 3-7 is included in the chart above. The quality figures originally forecast for those five days were 6, 7, 7, 7 and 7.

SEPTEMBER 1966

NORTH ATLANTIC

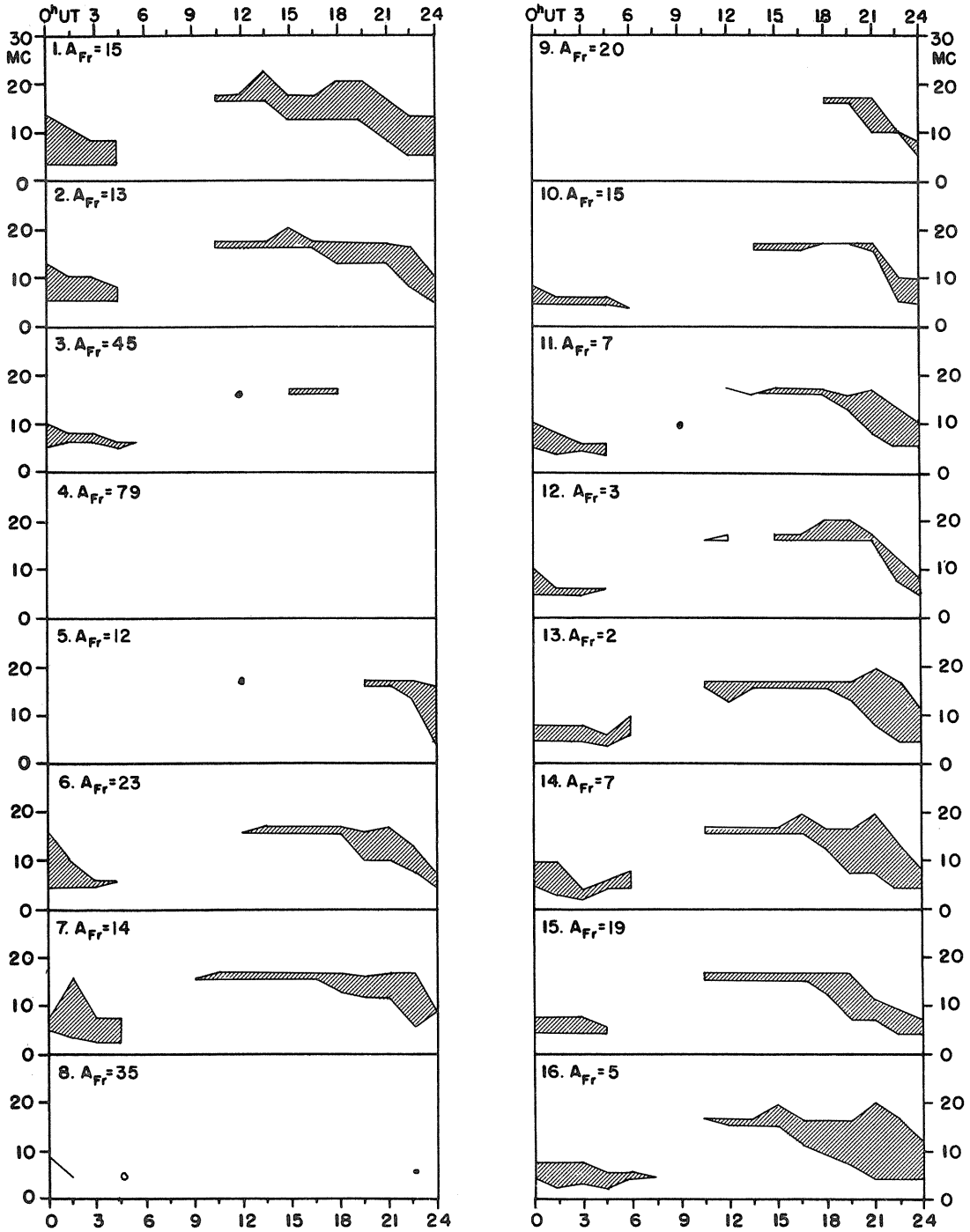


HIGH LATITUDE



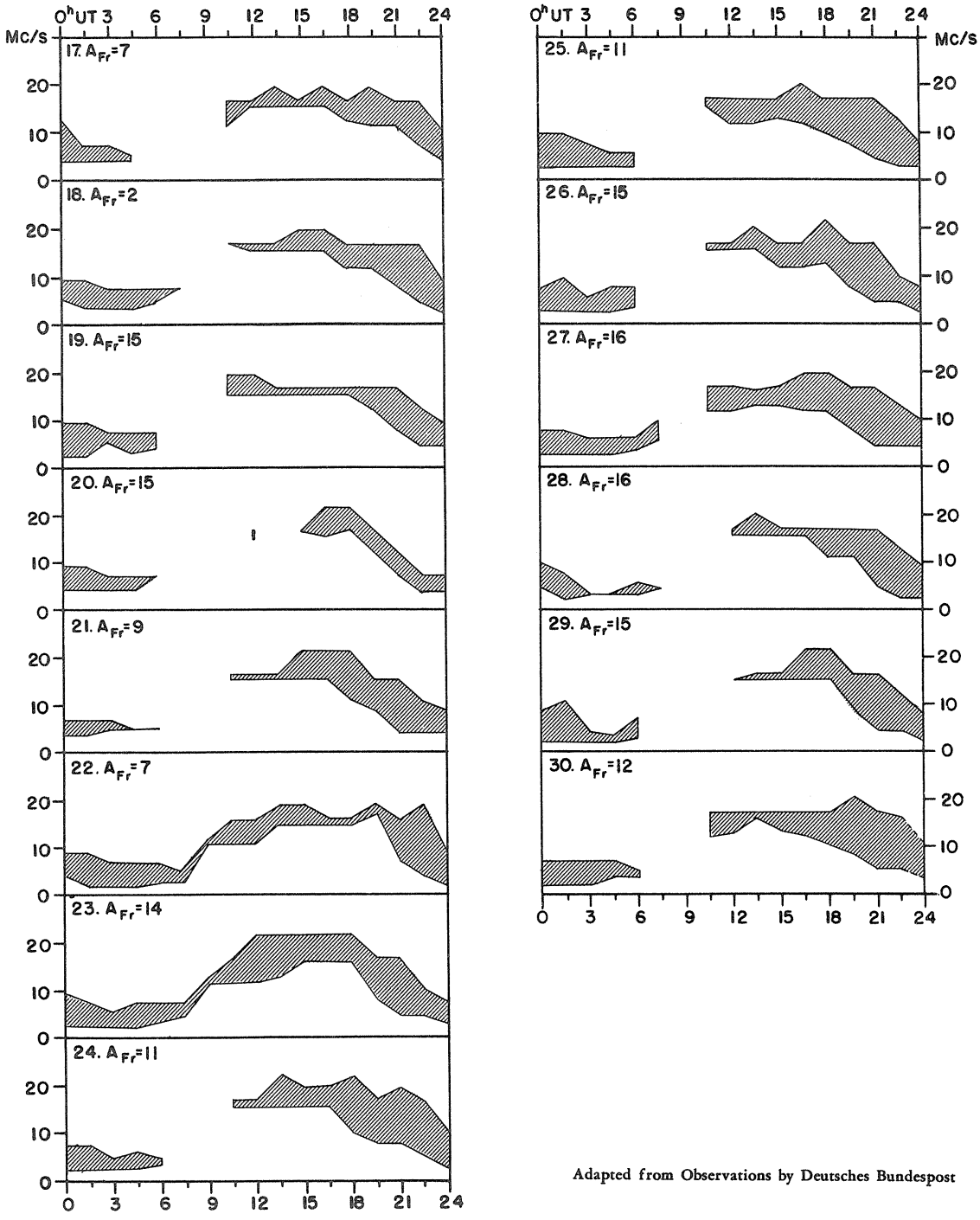
VIIc USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

SEPTEMBER 1966



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH VIId

SEPTEMBER 1966



Adapted from Observations by Deutsches Bundespost

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

OCTOBER 1966

Oct. 1966	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
9	1220	Athens, Solar Flare 09/1103Z				
14	0400 0629	ADALERTPRESTO TENFLARE Toyokawa 140529Z	413	Solar Activity	Exists	
15	0400		414	Solar Activity	Exists	
16	0400		415	Solar Activity	Exists	Delta configuration spot group
17	0400		416	Solar Activity	Exists	
18	0400		417	Solar Activity	Exists	
21	0400		418	Strat. Warming*	Begins	Antarctica region Roi Baudouin, movement unknown
22	0400		419	Strat. Warming	Exists	Antarctica Roi Baudouin-Mirny
23	0400		420	Strat. Warming	Exists	Antarctica region Lazarev-Mirny
24	0400		421	Strat. Warming	Exists	Antarctica region Lazarev-Mirny
25	0400		422	Strat. Warming	Exists	Antarctica Lazarev-Wilkes
26	0400		423	Strat. Warming	Exists	Antarctica Mawson-Wilkes-Vostok region, spreading
27	0400		424	Strat. Warming	Exists	Antarctica Mawson-Wilkes-Vostok region
28	0400		425	Strat. Warming	Exists	Antarctica Wilkes-Mirny region
29	0400		426	Strat. Warming	Exists	Antarctica Wilkes-Mirny region
30	0400		427	Strat. Warming	Exists	Antarctica Wilkes-Mirny region
31	0400 2050	Maui, Solar Flare 31/1905Z	428	Strat. Warming	Exists	Antarctica Wilkes-Mirny region

* Strat. = Stratospheric