U.S. DEPARTMENT OF COMMERCE
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ENVIRONMENTAL DATA SERVICE
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Solar - Geophysical Data

NO. 367 ' MARCH 1975

Part I (Prompt Reports)

DATA FOR
FEBRUARY 1975
JANUARY 1975

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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SOLAR - GEOPHYSICAL DATA

No. 367

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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FEBRUARY 1975 DATA

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ALERT PERIODS

INTERNATIONAL URSIGRAM
AND WORLD DAYS SERVICE

FEBRUARY 1975

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS).

Boulder 23/1400Z Magstorm begins 23/0910Z weak Magstorm in progress 23/1400Z.

SUMMARY OF THE GEOALERT WWA MESSAGES

Message serial number	Date of issue	Date of obser-vation	Wolf number	10cm solar flux	A index	Active Regions: Location Lat-Long	Active Regions: No. of Flares Total	Active Regions: No. of Flares M	Active Regions: No. of Flares X	Outstanding events	Forecasts: Date	Forecasts: Location Lat-Long	Forecasts: Desc*	Alert Situations
032	01	31	00	72	17	-	-	-	-		01	SPOTNIL	-	SOLQUIET MAGALERT MINOR 01/04
033	02	01	00	73	20	-	-	-	-		02	SPOTNIL	-	SOLQUIET MAGALERT MINOR 02/04
034	03	02	33	75	19	S13E57 S10E68	0 0	0 0	0 0		03	S13E57 S10E68	Q Q	SOLQUIET MAGALERT MINOR 03/04
035	04	03	53	77	11	S13E43 S11E56 S10E49	0 0 1	0 0 0	0 0 0		04	S13E43 S11E56 S10E49	Q Q Q	SOLQUIET MAGNIL
036	05	04	25	78	07	S12E26 S11E32	0 0	0 0	0 0		05	S12E26 S11E32	Q Q	SOLQUIET MAGQUIET
037	06	05	35	79	15	N03E50 N12E40 S12E10	8 0 0	0 0 0	0 0 0		06	N03E50 N12E40 S12E10	E Q Q	SOLALERT 06/10 MAGQUIET
038	07	06	42	83	08	N04E40 S10E00 S12W08	4 0 0	0 0 0	0 0 0		07	N04E40 S10E00 S12W08	E Q Q	SOLALERT 07/10 MAGQUIET
039	08	07	27	82	09	S13W14 S11W09 N04E20	1 0 1	0 0 0	0 0 0		08	S13W14 S11W09 N04E20	Q Q Q	SOLNIL MAGALERT RECURRENCE 09/15
040	09	08	17	81	08	N04E06	0	0	0		09	N04E06	Q	SOLQUIET MAGALERT MINOR RECURRENCE 09/15
041	10	09	19	79	06	N03W05	0	0	0		10	N04W05	Q	SOLQUIET MAGALERT MINOR RECURRENCE 09/15
042	11	10	38	79	21	N03W20	0	0	0	MINOR MAGNETIC DIS-TURBANCE STARTED ABOUT 11/0000Z	11	N03W20	Q	SOLQUIET MAGALERT MINOR 11/15
043	12	11	19	77	19	N03W34	1	0	0		12	N03W34	Q	SOLQUIET MAGALERT MINOR 12/15
044	13	12	11	77	28	N03W49	0	0	0		13	N03W49	Q	SOLQUIET MAGALERT MINOR 13/15
045	14	13	11	76	18	N03W64	1	0	0		14	N03W64	Q	SOLQUIET MAGALERT MINOR 14/15
046	15	14	11	74	22	N03W77	0	0	0		15	N03W77	Q	SOLQUIET MAGALERT MINOR 15
047	16	15	00	72	16	-	0	0	0		16	SPOTNIL		SOLQUIET MAGALERT MINOR 16
048	17	16	00	73	19	-	0	0	0		17	SPOTNIL		SOLQUIET MAGALERT MINOR 17
049	18	17	00	71	14	-	0	0	0		18	SPOTNIL		SOLQUIET MAGNIL
050	19	18	00	70	12	-	0	0	0		19	SPOTNIL		SOLQUIET MAGQUIET
051	20	19	00	70	12	-	0	0	0		20	SPOTNIL		SOLQUIET MAGQUIET
052	21	20	11	71	06	N09E04	0	0	0		21	N09E04	Q	SOLQUIET MAGQUIET
053	22	21	11	70	06	N09W20	0	0	0		22	N09W20	Q	SOLQUIET MAGQUIET
054	23	22	13	70	05	N01W07	0	0	0		23	N01W07	Q	SOLQUIET MAGQUIET
055	24	23	17	70	27	S09W08	0	0	0	MINOR MAGSTORM BEGAN 23/0910Z	24	S09W08	Q	SOLQUIET MAGALERT MINOR 24
056	25	24	42	70	12	S08W03 N04W27	0 0	0 0	0 0		25	S08W03 N04W27	Q Q	SOLQUIET MAGNIL
057	26	25	14	71	16	S08W18	0	0	0		26	S08W18	Q	SOLQUIET MAGQUIET
058	27	26	00	70	10	-	0	0	0		27	SPOTNIL		SOLQUIET MAGALERT 27/03
059	28	27	00	71	04	-	0	0	0		28	SPOTNIL		SOLQUIET MAGALERT 28/03
060	01	28	00	70	10	-	0	0	0		01	SPOTNIL		SOLQUIET MAGALERT 01/03 STRATWARM ALERT / SATURDAY / STRATWARM EXISTS SIGNIFICANT INTENSIFICATION NOTED IN MID STRATOSPHERE WARM AIR SYSTEM OVER NORTHEASTERN SIBERIA.

* Q=Quiet E=Eruptive A=Active P=Proton C=Caution D=Doubtful O.G.=Other Groups

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

	1974 FINAL												1975 PROVISIONAL	
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
1	12	13	24	22	47	33	79	37	8	61	18	0	30	0
2	15	10	14	20	70	41	87	23	8	53	27	0	30	22
3	13	7	0	19	85	52	90	12	16	46	39	9	28	28
4	12	7	10	22	98	57	93	17	37	60	45	16	19	27
5	8	0	14	21	100	62	95	18	40	85	36	17	18	20
6	0	0	19	23	102	72	93	26	44	83	25	8	23	26
7	0	7	20	28	98	65	78	32	38	84	22	7	32	34
8	24	15	14	38	96	59	59	34	32	97	14	0	29	29
9	29	21	20	56	88	64	40	43	63	107	7	0	37	22
10	43	22	30	66	69	59	26	48	74	114	24	9	31	18
11	48	20	37	71	62	48	22	54	80	110	27	21	30	13
12	54	22	38	74	49	38	22	67	80	92	24	31	31	18
13	45	48	30	77	38	44	28	69	74	76	16	34	32	9
14	70	26	39	83	32	41	38	66	67	63	8	33	11	8
15	73	45	34	87	23	32	49	59	64	48	16	35	20	8
16	64	48	23	77	16	25	54	57	68	41	20	40	17	8
17	63	49	20	67	8	25	52	52	71	28	20	36	16	0
18	55	47	28	55	0	27	53	44	66	16	18	34	20	0
19	53	43	21	45	0	28	47	43	51	9	34	43	20	0
20	48	39	15	42	0	20	50	32	31	11	40	40	18	7
21	33	35	16	35	0	16	55	28	13	12	40	40	16	8
22	36	38	28	25	7	11	58	34	0	9	44	37	16	0
23	28	31	25	17	9	11	60	34	7	7	44	28	15	0
24	14	29	21	18	7	15	57	28	11	7	37	26	7	12
25	0	17	16	19	0	15	59	25	11	8	29	9	7	9
26	8	19	10	20	20	8	60	8	13	16	25	8	7	0
27	0	37	9	28	18	8	54	8	19	30	23	8	0	0
28	8	33	17	15	28	18	51	8	23	27	13	20	7	0
29	0		19	22	18	30	42	14	38	22	7	16	7	
30	0		24	16	7	47	41	8	58	22	7	19	7	
31	0		26		30		38	15		16		13	0	
MEAN	27.6	26.0	21.3	40.3	39.5	36.0	55.8	33.6	40.2	47.1	25.0	20.5	18.7	11.6

1974 yearly mean = 34.5

DAILY SOLAR FLUX AT 2800 MHz
OTTAWA ARO

FLUX ADJUSTED TO 1 A.U., S_a

	1974										1975	
DAY	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
1	76.4	72.1	98.5	97.9	105.4*	85.1	77.8	93.1	90.2	79.7	78.1	70.8
2	76.5	71.3	113.1*	100.1	112.7*	85.2	79.4	94.6	92.0	78.7	75.8	72.3
3	77.1	71.6	115.5	98.9	118.5*	83.0	79.2	93.4	96.2	76.7	77.1	74.3
4	79.0	73.3	118.0	98.2	127.8*	85.8	81.0	100.5	99.5	74.7	74.4	75.4
5	78.6	76.3	119.7	96.5	125.6*	86.5	81.5	113.3*	97.6*	73.2	73.7	76.5
6	77.5	80.0	123.0	95.0*	121.5	88.0	82.2	115.0	92.3	71.9	73.8	81.1
7	76.0	80.2	119.3	92.8	110.9*	85.8	85.4	114.5*	85.6	71.1	75.7	79.4
8	77.0	81.1	115.8	95.0*	104.7*	89.4	93.4	125.2	82.0	69.6	77.7	78.8
9	80.2	87.8	110.0	95.1	95.5	87.5	96.0	128.9	78.9	69.6	79.9	77.1
10	86.1	93.5*	105.1	97.0	88.2	88.3	102.0	129.3*	78.4	70.4	80.5	76.7
11	85.9	99.8	104.3	95.3*	83.1	94.4	104.6	137.5*	77.3	76.2	81.2	74.8
12	86.2	105.6*	97.1	91.7	83.3	99.4	105.6	144.1	79.1	77.9	82.4	74.9
13	84.5	102.8	93.5	89.8	83.3	95.2	106.8*	126.6	76.1	78.0	80.4	73.7
14	81.9	116.3	88.2	88.1	83.3	93.2	104.1	113.2*	77.7	78.2	77.7	72.0
15	82.9	122.9*	84.9	84.7	85.5	92.1	103.6	103.7*	80.0	83.2	77.4	69.7
16	81.8	115.0*	80.3	85.2	91.3	96.6	102.0*	94.9	82.5	88.3	76.5	71.4
17	82.7	101.8	75.8	87.2	91.0	98.8	100.3	83.8	84.6	88.3	74.7	69.3
18	80.2	98.0	75.2	84.4	86.5	95.1*	100.0	81.0	88.5	90.3	75.8	68.3
19	80.0	87.5*	73.0	82.8	87.1	88.8	91.7	75.2	96.0	91.9	74.1	70.0
20	79.6	82.3	72.5	83.8	86.7	82.6	85.9*	75.5	95.6	87.3	73.8	69.5
21	79.1	79.5	71.9	81.4	90.1	81.2*	82.7	73.9	96.2	86.0	74.5	68.9
22	80.0	75.3	72.2	82.3	95.3*	80.6	81.0	72.6	98.7	84.4*	73.6	68.3
23	79.8	73.9	71.5	80.2	98.5	81.0	74.6	74.0	98.1	83.0	72.7	68.3
24	76.6	75.0	71.6	79.1	92.1*	77.4	72.8	74.7	95.9	80.1	71.0	68.6
25	74.3	76.5	72.4	78.8	89.5	75.7	72.8	76.9	94.5	78.9	70.3	69.4
26	72.6	74.9	79.6	79.6	93.1	73.8	75.4	80.7	92.2	75.8	70.5	68.8
27	71.8	75.3	85.1	82.4	87.9	72.7	77.0	80.0	90.8	74.3	70.1	69.4
28	70.4	77.9	87.4	83.0	84.5	71.8	80.7	81.6	86.6	73.7	70.7	68.6
29	71.5	81.6	89.4	89.4*	85.2	72.4	90.7	81.6	83.8	74.1	70.4	
30	72.1	91.7	91.3	93.1*	85.9	74.2	91.5	82.7	82.0	74.5	70.5	
31	72.9		95.1		87.4	75.6		86.7*		76.1	70.1	
MEAN	78.4	86.7	92.6	89.0	95.5	85.1	88.7	97.1	88.3	78.6	75.0	72.4

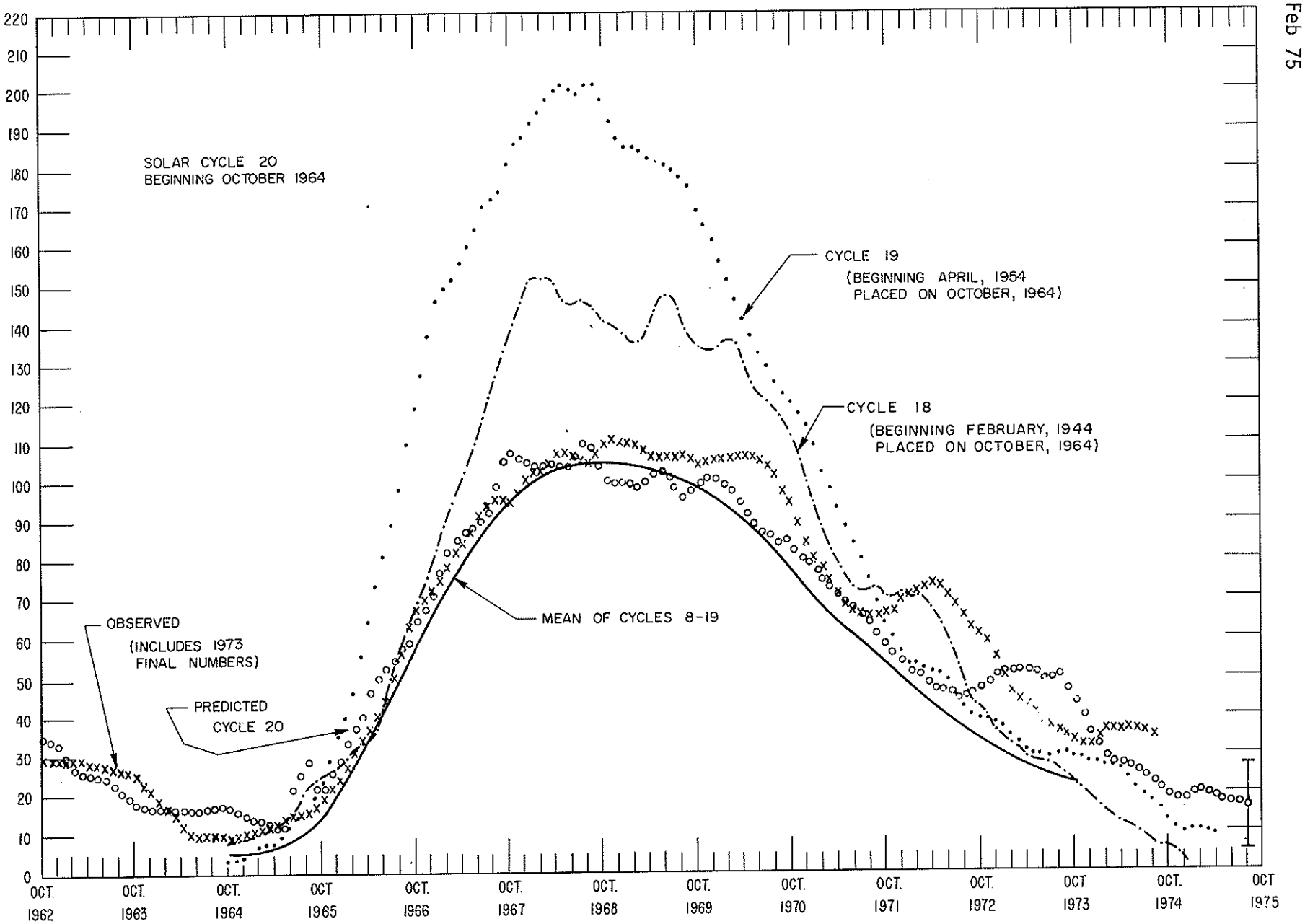
* adjusted for burst

DAILY SOLAR INDICES

FEBRUARY 1975

FEB 1975	YEAR DAY	BARTELS 27-DAY CYCLE NUMBER	SUNSPOT NUMBERS		OBSERVED FLUX OTTAWA 2800	SOLAR FLUX ADJUSTED TO 1 A.U.								
			R_Z	$R_{A'}$		AFCRL 15400	AFCRL 8800	AFCRL 4995	OTTAWA 2800	AFCRL 2695	AFCRL 1415	AFCRL 606	AFCRL 410	AFCRL 245
1	32	6	0	2	72.9	522	282	116	70.8	70.5	46.7	34.3	22.4	8.6
2	33	7	22	17	74.5	517	280	117	72.3	72.3	43.9	34.5	23.7	8.6
3	34	8	28	23	76.5	517	279	119	74.3	73.6	48.4	34.4	22.5	8.7
4	35	9	27	27	77.6	529	277	120	75.4	76.1	49.9	36.5	23.2	8.8
5	36	10	20	25	78.7	525	272	122	76.5	77.7	53.8	36.2	25.2	8.9
6	37	11	26	26	83.4	521	270	124	81.1	78.0	58.4	37.0	28.0	10.5
7	38	12	34	30	81.6	519	271	125	79.4	79.5	54.1	38.3	22.1	13.0
8	39	13	29	32	81.0	527	272	124	78.8	79.9	56.8	38.3	25.4	12.3
9	40	14	22	25	79.2	530	272	122	77.1	77.4	54.8	36.2	24.1	9.1
10	41	15	18	19	78.7	516	275	120	76.7	76.7	51.9	37.3	23.6	8.8
11	42	16	13	20	75.8	524	275	122	74.8	75.7	55.9	37.2	23.8	9.2
12	43	17	18	10	76.9	523	270	121	74.9	75.2	54.3	37.1	24.1	9.7
13	44	18	9	10	75.6	529	268	120	73.7	74.3	51.6	36.5	23.4	8.5
14	45	19	8	6	73.8	522	278	117	72.0	71.3	47.9	35.2	23.8	8.5
15	46	20	8	3	71.5	516	274	116	69.7	70.7	46.3	35.0	23.1	8.4
16	47	21	8	1	73.2	526	270	118	71.4	72.3	48.0	34.9	21.7	8.5
17	48	22	0	0	71.0	531	269	115	69.3	68.6	45.1	34.5	22.4	8.1
18	49	23	0	0	69.9	522	271	117	68.3	69.0	45.7	33.3	21.9	8.0
19	50	24	0	0	71.6	514	266	115	70.0	68.1	44.9	33.3	20.2	7.9
20	51	25	7	5	71.1	525	272	115	69.5	70.0	44.5	34.4	20.4	7.6
21	52	26	8	2	70.4	527	275	114	68.9	68.7	45.0	33.4	20.4	8.0
22	53	27	0	0	69.8	517	273	114	68.3	68.2	42.9	30.8	19.3	7.4
23	54	1	0	5	69.8	516	270	115	68.3	67.2	45.9	31.1	21.3	7.8
24	55	2	12	11	70.1	530	272	116	68.6	67.2	47.4	33.1	21.2	8.0
25	56	3	9	11	70.8	529	269	118	69.4	69.6	45.4	33.3	20.7	7.9
26	57	4	0	3	70.2	526	268	115	68.8	69.5	46.0	33.2	20.0	7.9
27	58	5	0	0	70.7	525	269	115	69.4	68.6	45.2	32.5	19.9	7.5
28	59	6	0	0	69.9	529	273	116	68.6	68.7	44.1	32.8	19.5	7.5
MEAN			11.6	11.2	74.2	523	273	118	72.4	72.3	48.7	34.8	22.4	8.7

* Corrected for burst.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

SMOOTHED OBSERVED AND PREDICTED SUNSPOT NUMBERS
CYCLE 20

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1964										9.6	10.2	11.3
1965	11.7	12.0	12.5	13.6	14.6	15.0	15.5	16.4	17.4	19.7	22.3	24.5
1966	27.7	31.3	34.5	37.4	40.7	44.6	50.3	56.6	63.1	67.6	70.2	72.7
1967	75.0	78.8	82.2	84.6	87.4	91.3	94.1	95.3	95.3	95.0	97.1	100.6
1968	102.6	102.9	104.7	107.2	107.6	106.6	105.2	104.8	107.0	109.9	110.6	110.1
1969	110.0	109.6	108.0	106.4	106.2	106.1	105.8	106.4	105.4	104.1	104.6	104.9
1970	105.6	106.0	106.2	106.1	105.8	105.3	103.8	101.0	97.2	93.9	89.4	84.1
1971	80.4	77.8	74.4	70.9	68.1	66.7	65.4	64.6	65.8	66.2	66.8	69.4
1972	70.8	71.2	72.4	73.4	72.9	70.5	68.2	65.5	62.2	60.6	58.7	55.1
1973	50.9	46.5	44.2	42.7	40.7	39.1	37.6	36.3	34.7	33.2	32.7	32.6
1974	34.2	36.1	35.7	35.7	36.4	36.2	35.7	34.5	32.3 (2)	30.4 (3)	28.7 (5)	27.4 (5)
1975	26.0 (5)	24.3 (6)	23.0 (6)	21.5 (7)	19.8 (8)	18.6 (9)	17.5 (11)	16.2 (-)	15.3 (-)	14.4 (-)	13.5 (-)	12.5 (-)

For each month, the upper figure is the observed or predicted Zürich smoothed sunspot number. The lower figure in parenthesis is the corresponding absolute value of the 90% prediction interval, an indication of the uncertainty above and below the predicted number. Observed numbers are those with no prediction intervals. The observed smoothed sunspot numbers are based on final Zürich numbers through 1973.

The predicted sunspot numbers are derived from a regression analysis based on cycles 8 through 19. Tests indicate that earlier cycles are from a different statistical population. From July 1968 - February 1970 a regression analysis based on cycles 1 through 19 was used because it had not then been proven that two populations exist.

SOLAR FLARES

PARTIAL LISTING

Solar Flares for which at least one observatory has assigned a numerical importance of "1" or greater.

FEBRUARY 1975

OBSERVATORY	OBSERVED UT DATE FEB	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
RAMY	05	1753	1814	1758	N 4	E50	.772		9.5	21	SN	3	C		.65				F
PALE	05	1755	1821	1803	N 4	E56	.833	13470	9.9	26	1B	2	V		1.24				DE H
PALE	05	1755	1821	1803	N 4	E56	.833	13470	9.9	26	1B	2	C		1.24				DE H
RAMY	11	1301	1315	1306	N 3	W27	.468		9.5	15	SF	4	C		.65				DE
ATHN	11	1301	1307	1303	N 4	W27	.472		9.5	6	SF	5	C		.50				DE
ATHN	11	1301	1307	1303	N 4	W27	.472		9.5	6	SF	4	V		.50				DE
ATHN	11	1301	1307	1303	N04	W27	.472		9.5	6	SF	1		1303	.52	.50			
WENO	11	1315	1340		N02	W26	.449	13470	9.6	25	1N		P		5.16	5.50			

Note: Catania and Capri-S express Maximum Intensities in percent of the local undisturbed chromosphere instead of percent of the local continuum. Parentheses are used to indicate this difference.

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

SOLAR FLARES

Date, time (UT) and coordinates of Subflares not included in preceding table.

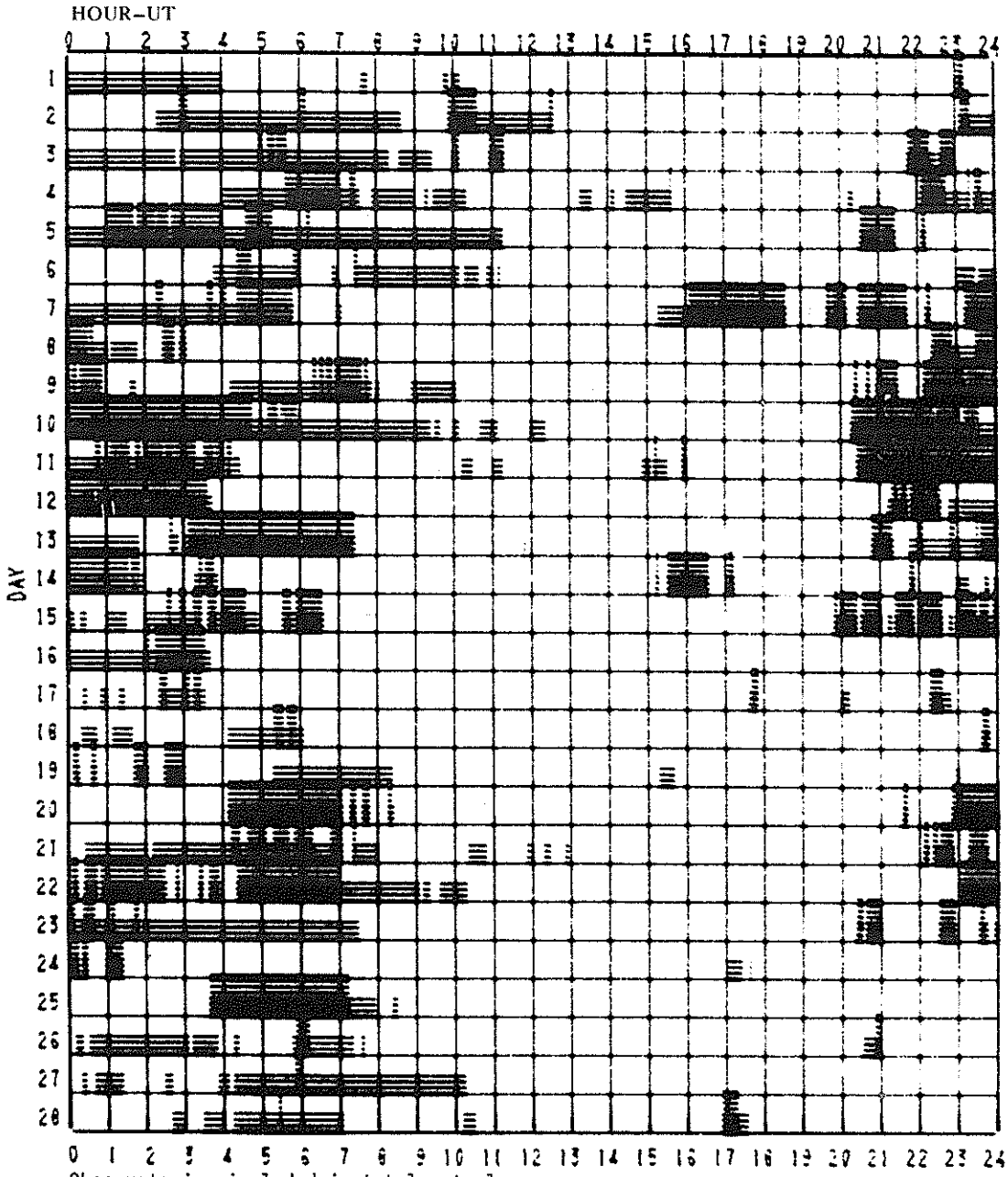
FEBRUARY 1975

02	1310	S12	E61	02	1510	S12	E62	02	1720	S12	E60	03	1020	S09	E58	03	1025	S12	E60	03	1028	S08	E59
03	1031	S12	E48	03	1052	S10	E57	03	1128	S10	E57	03	1133	S10	E57	03	1205	S08	E58	03	1206	S10	E56
03	1211	S08	E58	03	1220	N01	E90	03	1236	N01	E90	03	1245	S10	E56	03	1248	S 7	E56	03	1249	S10	E56
03	1435	S08	E57	03	1515	S08	E56	03	1515	S 6	E58	03	1516	S08	E58	03	1517	S 9	E57	03	1536	S12	E45
03	1547	S10	E56	03	1551	S10	E55	04	2156	N 4	E64	05	0049	N02	E64	05	0655	N03	E62	05	1354	N 4	E53
05	1356E	N03	E54	05	1510	S 9	E26	05	1531	N 4	E52	05	1643	N 4	E51	05	1911	N 4	E55	05	1911	N 4	E49
05	1913E	N 4	E53	05	1914E	N 4	E51	05	1914E	N 4	E51	05	2100E	N 2	E51	05	2101E	N 3	E51	05	2132	N 4	E47
05	2203	N 4	E46	05	2250E	N03	E50	06	0227	N03	E49	06	0250	N03	E49	06	0254	N 2	E48	06	0256E	N 2	E49
06	0510	N03	E46	06	0510	N03	E46	06	1451	N 1	E38	06	1500	N01	E40	06	1811	N 4	E39	06	1811	N 4	E43
07	0213E	N03	E36	07	0959E	N03	E31	07	1041E	N03	E30	07	1130	N03	E28	07	1206	N02	E27	07	1349	N02	E27
07	1418	N02	E27	07	1419	N03	E27	07	1452	N02	E25	07	1925	S12	W04	07	1926	S12	W 4	07	1926	S12	W 6
08	0742	N02	E18	08	0812	S15	W14	08	0831	S15	W14	08	0958	S15	W13	08	1030	S15	W16	08	1049	S15	W13
08	1120	N06	E15	08	1137	S15	W13	08	1155	S15	W12	08	1505	N05	E12	09	1034	N05	W04	13	1308	N 3	W55
13	1310E	N04	W54	13	1310	N05	W59	13	1435	N04	W56	13	1435	N 3	W56	13	1436	N05	W60	13	1455	S10	W78
13	1458	N05	W62	13	2011	N 3	W58	20	1248	N10	W01	20	1305	N10	W02	20	1404	N10	W03	22	1057E	N02	W02
22	1318	N02	W04	23	1400	S10	E16	24	0800	S09	E04	24	0830	S09	E03	27	0418E	S 8	W31				

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

FEBRUARY 1975



Observatories included in total patrol:

Arcetri	Bucharest	Herstmonceux	Mitaka	Tehran
Athenes	Catania	Manila	Palehua	Upice
Boulder	Haute Provence	McMath-Hulbert	Ramèy	Wendelstein

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

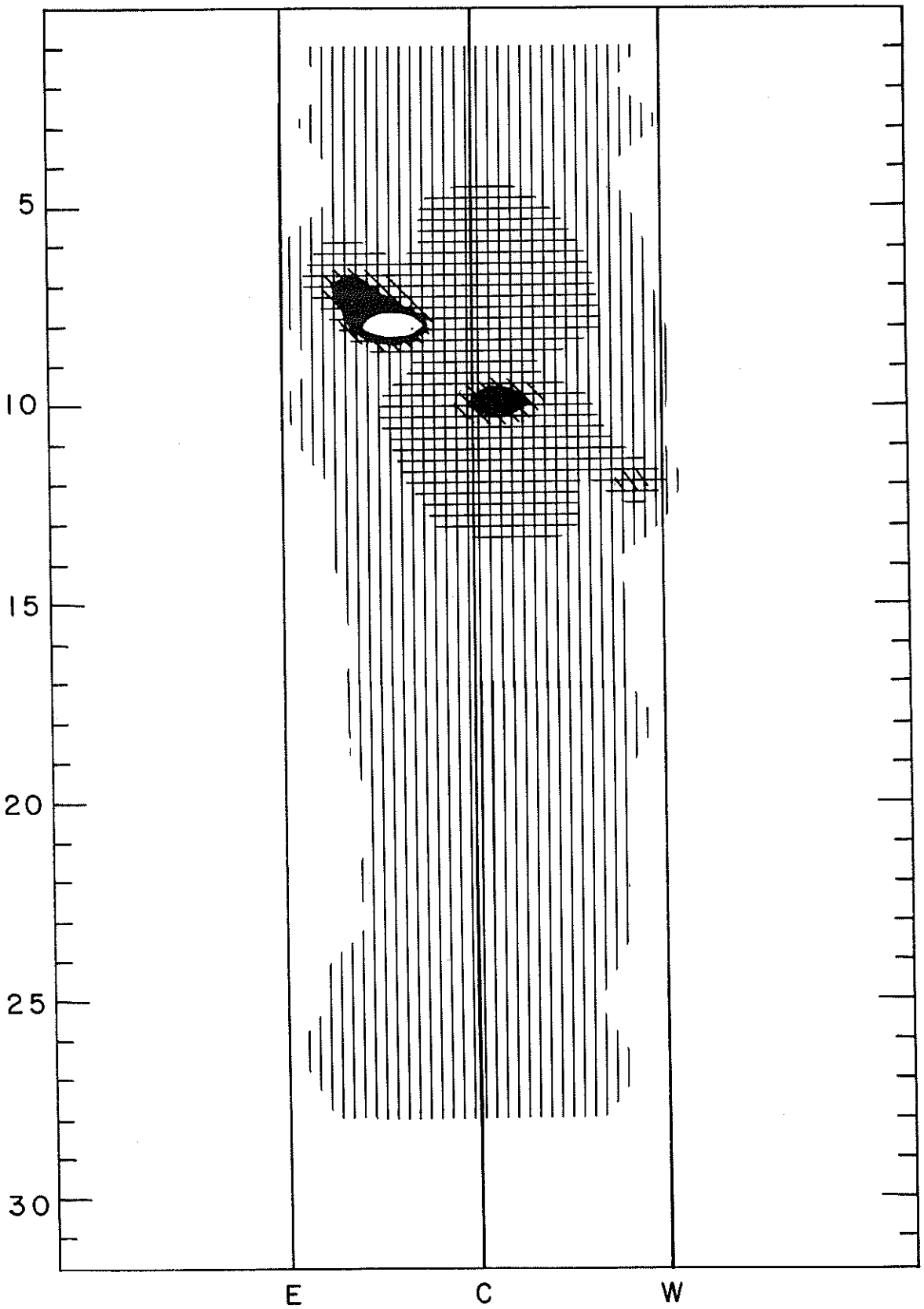
12
Feb 75

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

FEBRUARY 1975

Nançay

169 MHz

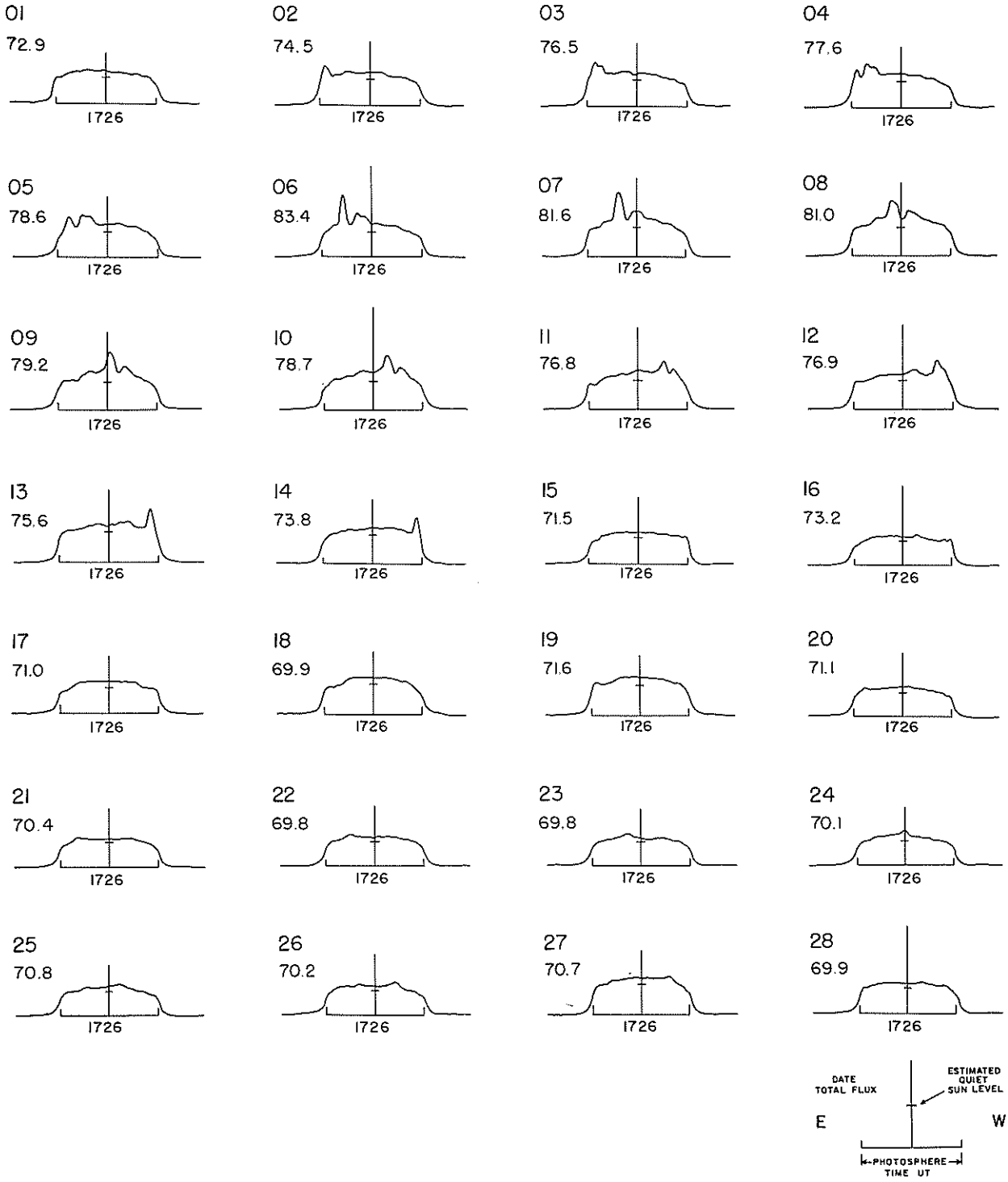


EAST - WEST SOLAR SCANS

February 1975

ALGONQUIN RADIO OBSERVATORY
CANADA

10.7 cm
Fan Beam with 1.5 minutes of arc
E - W Resolution



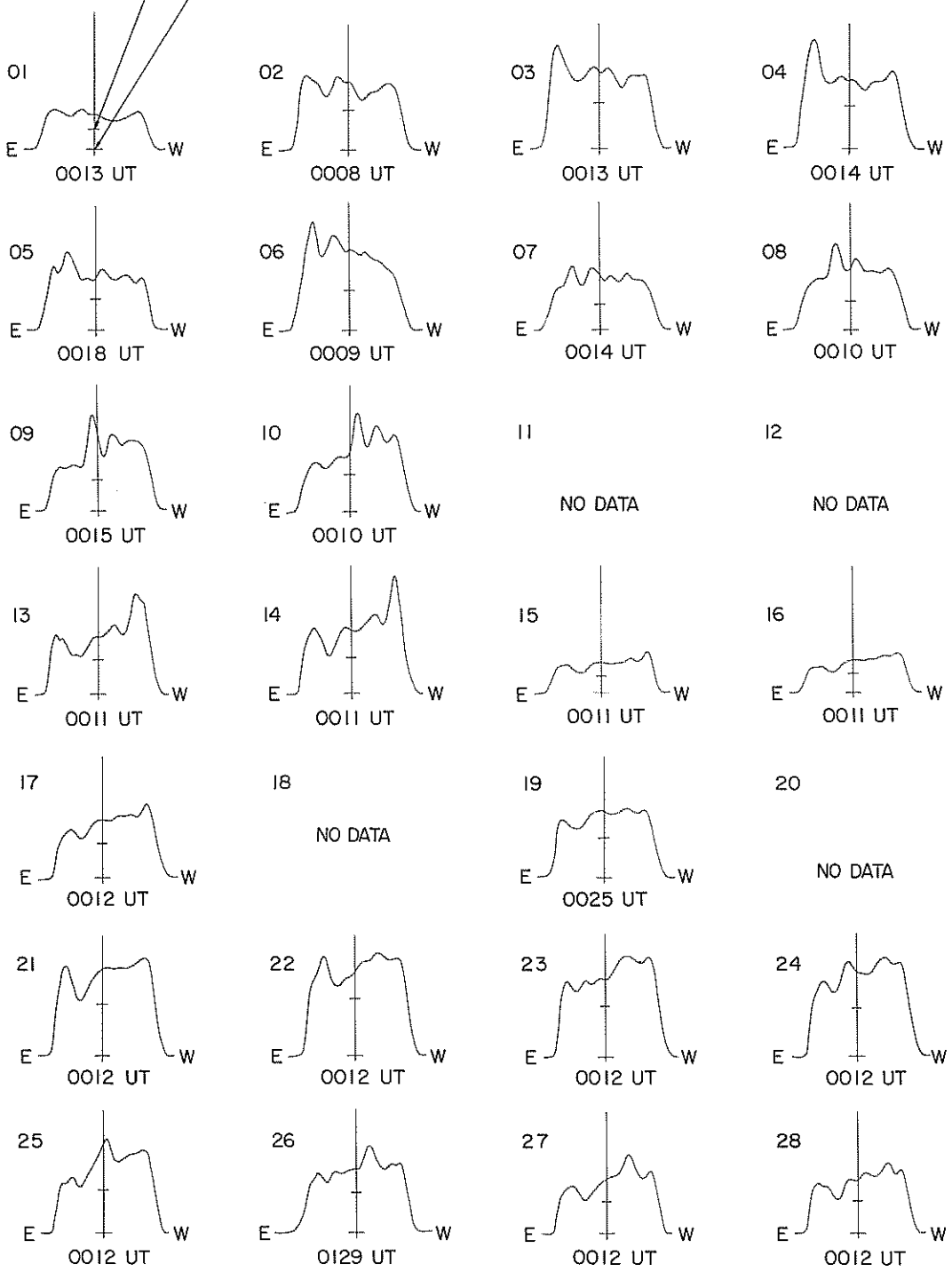
14
Feb 75

EAST-WEST SOLAR SCANS

FEBRUARY 1975

Fleurs, Australia

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

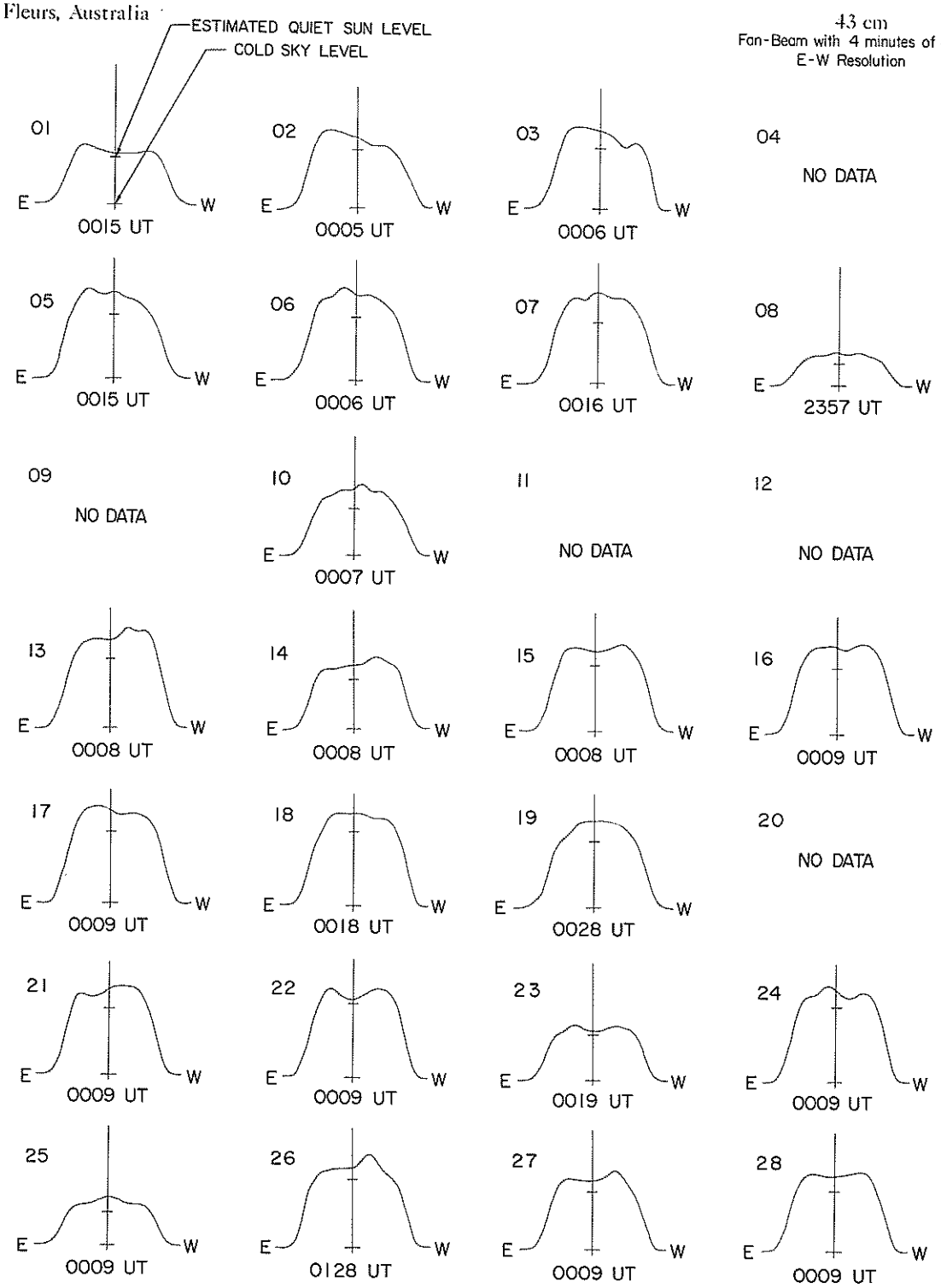


EAST-WEST SOLAR SCANS

FEBRUARY 1975

Fleurs, Australia

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



SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS

FEBRUARY 1975

	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	MEAN	INT	REMARKS
3	2800 OTTA	2 S/F	1942	1944	3	1.8	0.8		
5	2800 OTTA	27AFRF	1715		135	1.8	1.3		
	2800 OTTA	24 R	1715	1800	45	1.8	0.9		
	2695 BOUL	40 F	1757	1803	6	7	2		
	2800 OTTA	24P R	1800		60	1.8			
	2800 OTTA	26 FAL	1900	1930	30	-1.8	-1		
	2800 OTTA	2 S/F	1912	1913	3	1.6	0.9		
	2800 OTTA	240 R	1950	2140	110	2.8	1.6		
	2695 PENT	24P R	2140		100 D	2.8			
7	2800 OTTA	27 RF	1840		100	0.8	0.7		
	2800 OTTA	24 R	1840	1845	5	0.8	0.4		
	2800 OTTA	24P R	1845		70	0.8			
	2800 OTTA	26 FAL	1955	2020	25	-0.8	-0.4		
11	2800 OTTA	1 S	1540	1540.5	3.5	0.7	0.5		
13	2800 OTTA	1 S	1308	1310	6	4.4	2		
	2800 OTTA	29 PBI	1314	1314	20	1.8	1		
	2800 OTTA	21A GRF	1434.3	1435	16	1.8	0.9		
	2800 OTTA	8 S	1438.4	1438.6	0.4	5.8			
	2800 OTTA	20 GRF	2005	2015	85	1.8	0.9		
18	2800 OTTA	22F GRF	1935	1957	75	1.6	0.6		
	2695 PENT		1935	1957	75				NULL
24	2695 BOUL	1 S	1841	1842	2.5	2	1		
	2695 BOUL	1 S	1851	1852.5	3.5	3	1		

Observatories:

BOUL = Boulder MANI = Manila OTTA = Ottawa ARO PENT = Penticton SGMR = Sagamore Hill

Explanation of Type Code:

1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
32 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise Storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

SOLAR WIND
Interplanetary Scintillations
FEBRUARY 1975

UCSD 74 MHZ SCINTILLATIONS

DAY	3C48		3C144		3C147		3C161		3C237		3C273		3C298		3C459	
	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR
1	617	62	471	67	374	40	411	49	0	0	529	89	420	32	0	0
2	419	32	329	91	0	0	0	0	0	0	617	89	777	179	419	88
3	376	77	0	0	0	0	0	0	0	0	632	197	710	229	369	13
4	480	26	545	134	461	55	0	0	0	0	0	0	422	103	369	81
5	541	24	660	99	0	0	0	0	0	0	562	83	626	211	298	72
6	623	196			0	0	0	0	0	0	0	0	381	118	257	43
7	410	41			0	0	0	0	0	0	0	0	0	0	283	39
8	481	68	783	52	0	0	0	0	0	0	619	47	0	0	439	131
9	410	118	0	0	0	0	341	109	0	0	698	323	392	63	339	51
10	325	86	545	31	497	42	483	73	0	0	687	240	590	103	267	20
11	300	84			0	0			0	0			705	253	334	27
12			396	21					0	0	633	64	918	213	0	0
13	352	125	295	16			0	0			678	123	0	0	279	85
14	365	14	240	8	0	0	330	74	0	0	0	0			230	25
15	297	6			0	0	714	294	0	0	0	0			354	59
16	352	59	259	14	0	0	0	0	0	0	0	0	0	0	0	0
21	288	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*22	351	440			0	0	0	0	0	0	0	0	0	0	0	0
23	419	61	402	9			502	77	0	0	0	0	0	0	0	0
24	0	0	413	51	0	0	0	0	0	0	0	0	0	0	0	0
25	539	70			327	34	248	30			0	0	739	260	0	0
26	436	37			0	0	0	0	0	0	679	116	420	45	0	0
27	453	10	401	66			0	0			434	115	0	0	0	0
28	536	38	604	21	610	22	471	109	0	0	397	184	338	127	0	0

FEBRUARY	5				15				25			
	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON
3C48	1.	1.	0.99	-16.	0.	2.	0.94	-19.	23.	6.	0.87	-27.
3C144	4.	-5.	1.20	-12.	4.	-6.	1.17	-13.	3.	-6.	1.12	-15.
3C147	4.	0.	1.20	-10.	3.	0.	1.16	-11.	2.	0.	1.13	-13.
3C161	6.	-12.	1.22	-8.	5.	-13.	1.20	-10.	5.	-14.	1.16	-12.
3C237	9.	-7.	1.29	3.	9.	-7.	1.30	1.	8.	-7.	1.30	-1.
3C273	11.	-5.	1.22	11.	11.	-5.	1.25	9.	10.	-6.	1.27	7.
3C298	13.	-1.	1.12	14.	13.	-2.	1.16	13.	12.	-2.	1.20	11.
3C459	22.	10.	0.58	-52.	21.	15.	0.43	-61.	21.	26.	0.28	-68.

*3C48 OBS AT 0 hr.U.T. BEFORE 21st. AND 23 hr.U.T. AFTER 21st.

Sources as given in the 3rd Cambridge Catalog.

"0" Indicates times when no velocities were obtainable.

SOLAR X–RAYS BY SATELLITE
SMS–1 GOES

FEBRUARY 1975

.5 - 4Å Hourly Averages (10^{-6} watts/m^2 /sec)

DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B
4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
5	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
6	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
7	B	B	B	B	B	B	B	M	M	B	B	B	B	B	B	B	M	M	B	B	B	B	B	B	B
8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
9	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B
10	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	B	B	M	B	B	B	B	B	B	B
11	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
12	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
13	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
14	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
15	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
16	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
17	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
18	B	B	B	B	0.06	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
19	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
20	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
21	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	B	B	B
22	B	B	B	B	B	0.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
23	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
24	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
25	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
26	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
27	B	B	B	B	0.02	B	B	B	B	B	B	B	B	B	B	B	2.30	B	B	B	1.15	B	B	B	0.14
28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	3.14	B	B	B	0.13

SOLAR X–RAYS BY SATELLITE
SMS–1 GOES

FEBRUARY 1975

1 - 8Å Hourly Averages (10^{-5} watts/m^2 /sec)

DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B
4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
5	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	B	-
7	B	B	B	B	B	B	B	M	M	B	B	B	B	B	B	B	M	M	B	B	B	B	B	B	B
8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
9	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B
10	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	B	B	M	B	B	B	B	B	B	B
11	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
12	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
13	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
14	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
15	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
16	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
17	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
18	B	B	B	B	0.07	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
19	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
20	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
21	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	B	B	B
22	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
23	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
24	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
25	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
26	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
27	B	B	B	B	0.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.07
28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.07

INFERRED IP MAGNETIC FIELD

BARTELS ROTATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1896	1972 MAR 10	A A	A A	A A	A A	A A	A A	T A	T A	T A	T A	T A	T T	A A	A T	T T	A T	TA T	A A	A A	T T	T T	T T	T T	T T	TA T	A A	A A
1897	APR 6	A A	T T	T T	A A	AT T	T T	T T	T T	TA T	T T	T T	T T	T T	A A	T T	T T	AT A	A A	A A	A A	A A	A T	- A	A A	A T	T TA	TA A A
1898	MAY 3	A A	A A	A A	T -	A A	T T	T T	T T	T T	T T	T T	T T	T T	A A	T A	A T	A A	AT A	A A	AT A	AT A	T T	A A	T T	T T	A A	T T
1899	MAY 30	A A	A A	A *	A A	AT A*	T T	T T	A A	T T	T T	TA T	A A	A -	A -	TA -	A -	A -	T T	T -	A A	A A	T T	T T	T T	T T	TA TA	A A
1900	JUN 26	A A	A A	A A	TA A	TA A	A A	A A	T AT	TA T	T T	T T	T T	TA A	A T	T T	A A	A A	T A*	TA A*	A A	T T*	T T	T T	T T	T T	T T	TA TA
1901	JUL 23	TA A*	TA A*	T A*	T A	A A	A A	A A	T A*	TA T	T T	A A	A A	TA A	T -	AT A	T T	T T	T T	T T	T T	T A	T T	T T	T T	T T	A A	TA -
1902	AUG 19	A -	A -	A A	A A	A A	A A	A A	TA T	A A	A A	A A	A A	A A	T T	A A	A A	A A	T T	T T	T T	TA A	A A	TA T	A A	A A	TA A	A -
1903	SEP 15	A A	TA T*	A A	A A	A A	AT A	A A	A T	T A	AT A	A A	A -	A -	A -	A -	A -	A T	T T	T T	T T	T T	A -	T T	T A	AT A	TA A	A T
1904	OCT 12	T T	A -	TA -	A A*	A T	A T	TA T	A A	A A	A T	TA A	TA A	AT A	AT A	A A	T AT	T T	A AT	A T*	T T	A -	A A*	T AT	T T	TA T	TA *	A A
1905	NOV 8	A A	T A	AT A	AT AT	TA AT	T AT	A T	TA T*	A A	A A	A A*	TA AT	A A	A A	TA AT	T T	A T	TA TA	A T	A T	AT T	A A	TA A	A A	A A	AT AT	T T
1906	DEC 5	T T	T T	TA AT	T -	T -	T T	T T	A AT	A -	TA T	TA T	A A	AT -	A -	A T	T TA	A A	T T	T T	T T	A A*	A T	T T	T T	T T	TA AT	TA T
1907	1973 JAN 1	T T	T T	T T	T T	TA T	T T	A T	AT -	A AT	A T	A -	AT -	A TA	A A	A A	A A	A A	A A	T T	A -	T -	T T	T -	TA T	T -	T T	T T
1908	JAN 28	T T	A A	T T	TA T	AT T	T T	T T	A T	A A	A TA	A A	A A	A AT	T TA	A AT	A TA	A AT	AT -	A A	A A	T T	T T	AT T	T T	T T	T T	T T
1909	FEB 24	AT T	AT T	AT TA	AT T	T T	T -	AT TA	AT A	T A	T T	A A	A A	A A	AT TA	A AT	A A	A A	AT TA	A A	T A	AT TA	A A	AT A	T T	T T	T T	T T
1910	MAR 23	T T	T T	T T	T T	A T	T T	T T	T T	TA AT	A T	TA A	A A	A A	- A	A A	A T	TA A	A A	A A	AT AT	T -	T -	T T	A T	T T	T T	AT T*	T T*
1911	APR 19	T T	T AT	T T-	A T	T T	AT T	A A	AT T	T T	T TA	A A	A A	AT A*	A A	- AT	A TA	A A*	- T	A A	T TA	T T*	- AT	A A	T T	- A	- T	A A*
1912	MAY 16	T T	T T	T T	T T	AT T	- T	- TA	T T	A A	AT AT	T T	AT A	A A	- A	A A	- A	A A*	A A	A A	A A	A A	- T*	A -	A A A	- -	T T	T T
1913	JUN 12	TA T*	- T	* -	T T	TA T*	A A	T T	- T*	T T*	T T	T T	AT AT	A A	A A	TA T	* -	T T	- A	A A	A A	A A	A*	A AT	T -	T T	A A	- A	T T
1914	JUL 9	T T	T T	A A	T T	- T	AT A	T T*	A T*	- A	A AT	* -	A A	T T	A TA	- T	T T	T T	A A	- A*	A A	A A*	A TA	- A	A TA	T T*	T T*	T T
1915	AUG 5	T T	A A	A A	T AT	A A	A T	T T*	T T	AT *	T AT	T T	A AT	T T	A A	A TA	T T	T T	A A	A A	A A	AT A	A*	A AT	A A	A A	T TA	A A*	A A
1916	SEP 1	T TA*	T T	T T	A AT	A A	A TA*	A A	A *	T T	T T	T T	T A	A A	A A	T T	T T	T T	A T	T T	A A	A*	T A	A T*	A A	A A	TA	A* A A
1917	SEP 28	A A*	TA A	T AT	T T	A A	A A	A A	T A	AT A*	AT T*	AT AT	T T	T T	T T*	T T	T T*	T T*	AT T	TA A	A T	- A*	A A	A A	A T	AT A	AT T	T T
1918	OCT 25	T T	T T	A TA	A A	A T	A T*	T A	T A	A A	A A	T A	TA T	T T	AT T	T T	T T	T TA	T T	T T	T *	A A	A A	AT A	AT TA	A T	A -	A A
1919	NOV 21	A *	T T	T -	A A	A A	AT T	A T	A T*	A TA	A A	A A	A A	T TA	T T	T T	T T	T *	T T	T T	TA TA	A A	T T	T -	T A	A TA	A A	T T
1920	DEC 18	T T	AT A	A T	A T	A TA	A T	A *	A A	A *	AT T	T T	T T	T T	T T	* T	T T	T T	A T	AT T	T A	T T	T T	AT TA	T T	T A	A T	AT T
1921	1974 JAN 14	T A	A T	- T	T A	A T	A A	A A	A A	- A	A -	AT -	T T	T TA	T *	T A	T T	T T	A*	AT T	AT T	TA A	T -	T T	T T	T T	T T	TA A
1922	FEB 10	A -	A -	A *	A A	A A	A A	A A	TA T	A A	A A	A T	* T	T T	T T	T T	A T	- T	T T	T T	T T	TA T	T T	T T	T T	T T	A A	A A
1923	MAR 9	A A	A A	A A	A A	A A	A A	T T	TA TA	A AT	A A	A A	T A	T TA	T A	T T	A T	A A	T A	T T	T T	T T	TA T	T TA	T TA	A TA -	A TA
1924	APR 5	A A	A A	A -	TA A	A A	A A	A A	* A	A A	A A	A A	A T	T TA	TA TA	T T	T T	T T	T T	T T	T T	T T	T A	TA A	AT T	A A	A -	- -
1925	MAY 2	- -	A A	A A*	AT T	A AT	AT T	A T*	TA A	A A	TA T*	A A*	AT AT	T T	T T	T T	T T	TA T*	T T	T T	T T	T T	TA -	T T	TA T*	T T	A -	- -
1926	MAY 29	T T	A A	A *	- A	A A	A *	A A	* -	TA *	A A	A A	T T	T T	TA TA	T T	T T	T T	T T	T T	T T	T T	T T	T T	T T	T T	AT *	- T
1927	JUN 25	TA TA	A A	- A	- A	A T	A A	A A	A A	A A	A -	TA TA	- T	T T	T T	T T	T T	- T	T -	T T	T T	T T	T T	A AT	AT T	T T	T T	T T
1928	JUL 22	T T	A A	A A	AT A	A A	A A	A A	A A	A A	A A	A -	T -	T -	T -	T -	T -	T -	AT -	AT -	T -	TA -	T -	T -	T -	T -	T -	T -
1929	AUG 18	AT -	A -	A -	A -	A -	A -	A -	A -	AT -	TA T	T T	T T	T T	T T	T T	T T	TA AT	T T	T T	TA A	AT -	T T	T T	T T	T T	T -	A -
1930	SEP 14	AT T	T TA	AT A*	A A	A A	A A	A A	TA A	AT A	A A	A AT	T T	TA A	T TA	T T	T T	T T	T -	T T	T AT	T T	T T	T T	TA T	T A	A T	T T
1931	OCT 11	T T	TA T	A A	A A	A A	A A	A A	A A	AT A	A A	A TA	A A	A T	T AT -	T T	AT T	T T	T T	T T	T T	T T	T T	T T	T T	T T	TA T	T T
1932	NOV 7	TA -	T -	A -	A -	A A	A A	A A	A A	A -	A -	AT -	TA A	T T	T T	T T	T T	A T	* T	A T	T* T	AT T	T T	T T	T T	TA T	A T	T T
1933	DEC 4	T T	TA T	T A	TA A	A T	A T	A *	AT T*	A T	A *	A T	A A	A A	A T	T T	T T	T T	T T	T T	T* T	T T	T T	T* A	* A	T A	A A	A AT	TA
1934	DEC 31	T A	T T	T T	A TA	A T	A T	A -	A -	TA T	A A	AT -	A A*	A *	T T	T T	T T	T T	T T	T* T	T* T	T T	T T	T T	* A	A A	A AT	A* A A
1935	JAN 27	T T	T T	A T	AT T	A A*	A T-	TA A	A T	A T	A T	A T	A T	- T	T T	T T	AT T	T T	T T	T T	T* T	- TA	A T	A* AT	T A	TA TA	T A	A A A
1936	FEB 23	TA A	A A	A A	A* TA	A A	AT A	A																				

T = towards the sun
A = away from the sun
* = effect doubtful or not discernable
- = missing data

The table shows daily inferences of the polarity of the interplanetary magnetic field. The first half of the day is based principally on magnetograms produced by the magnetometer at the Vostok Anarctic Station of the USSR. The magnetometer of the U.S. Air Weather Service operated by the Air Force Cambridge Research Laboratories at the Thule Geopole Station is used for the second half of the day.

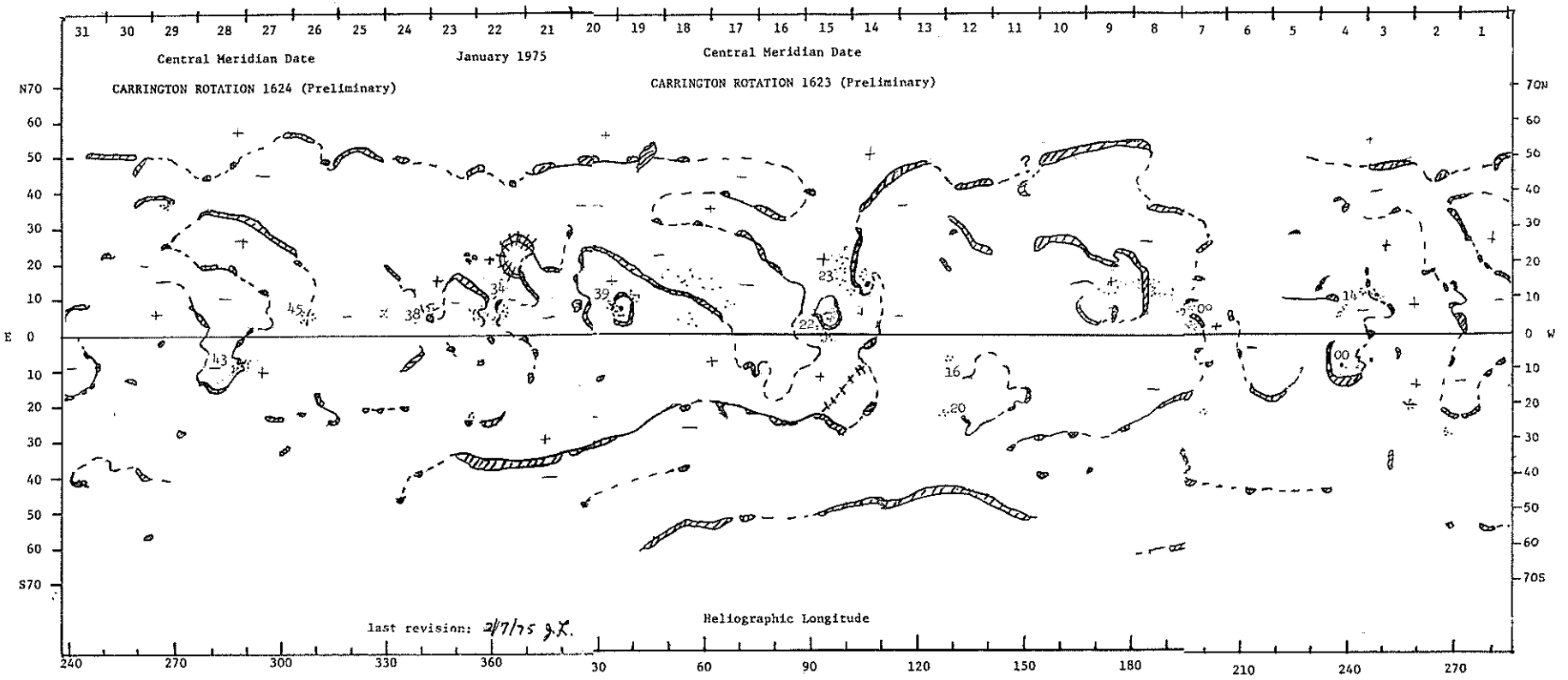
Note: Computer problems are responsible for the considerable amount of missing data in August 1974.

JANUARY 1975 DATA

Contents

Hα SYNOPTIC CHART

JANUARY 1975



23 Jan 75

JANUARY 1, 1975 (P = 2.32, B_o = -3.00, L_o = 286.18)

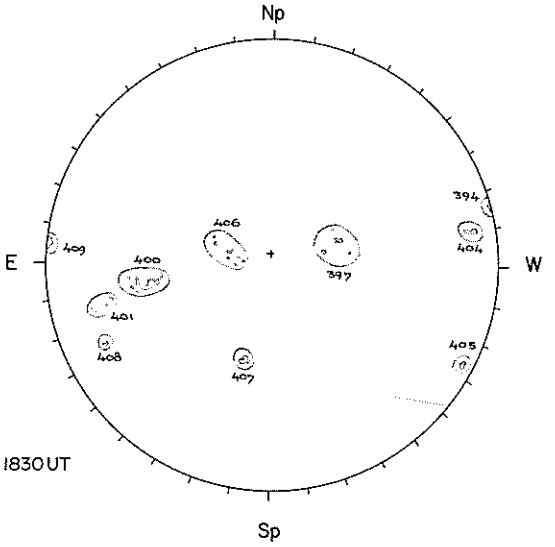
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

E Not Received at time of Publication. The OSO-5 X-ray Spectroheliograms for December, 1974 are published in the Miscellaneous Section (Part II) of this issue.

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



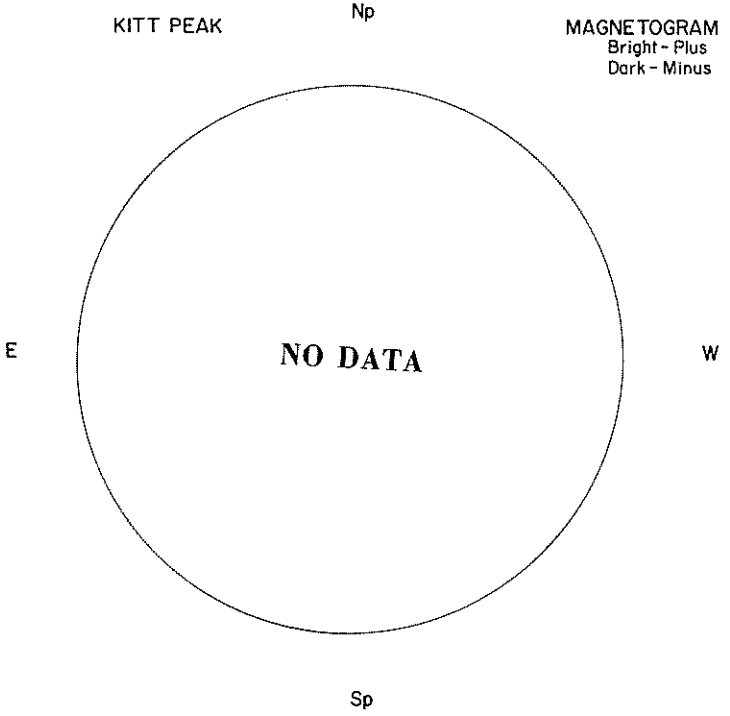
1830 UT

POOR	S
00 - 1000	-3.5
04 - 0400	-3.0
09 - 0900	-2.5

CALCIUM REPORT

KITT PEAK

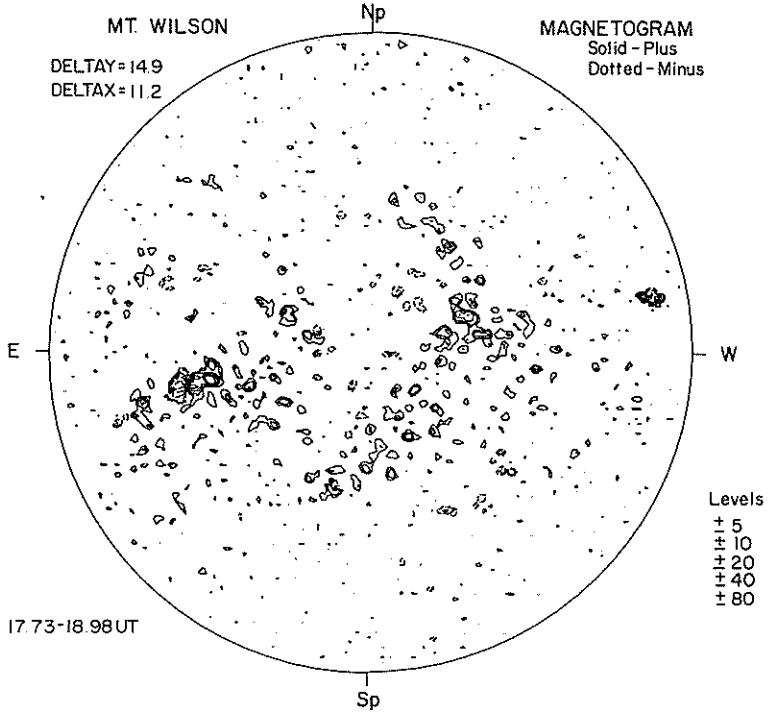
MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON

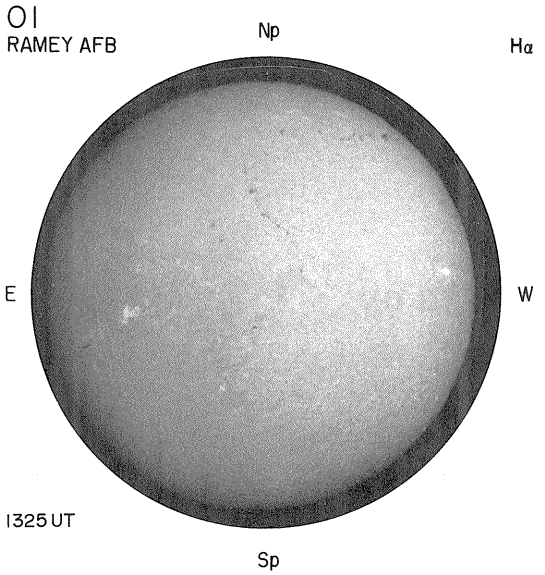
DELTAY = 14.9
DELTAX = 11.2

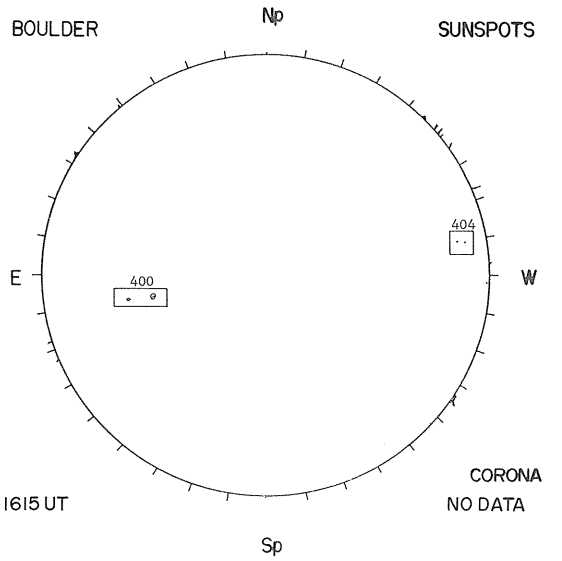
MAGNETOGRAM
Solid - Plus
Dotted - Minus

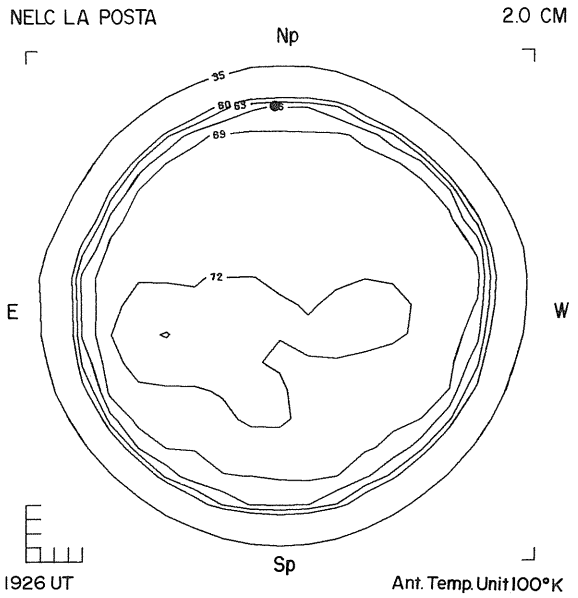


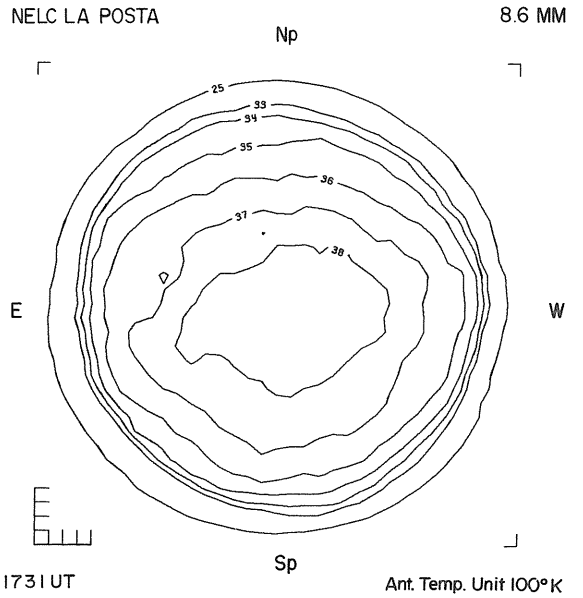
17.73-18.98 UT

Levels
± 5
± 10
± 20
± 40
± 80


OI
RAMEY AFB
Np
Hα
E
W
1325 UT
Sp


BOULDER
Np
SUNSPOTS
404
400
E
W
CORONA
NO DATA
1615 UT
Sp


NELC LA POSTA
2.0 CM
Np
95
80
63
65
69
72
E
W
1926 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
25
33
34
35
36
37
38
E
W
1731 UT
Sp
Ant. Temp. Unit 100°K

JANUARY 2, 1975 (P = 1.84, B_o = -3.12, L_o = 273.01)

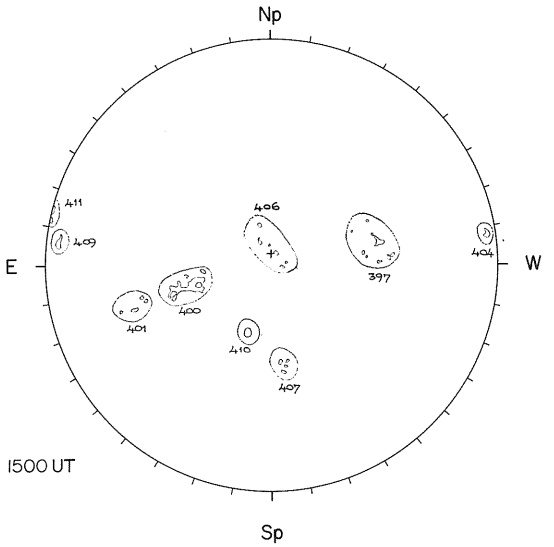
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

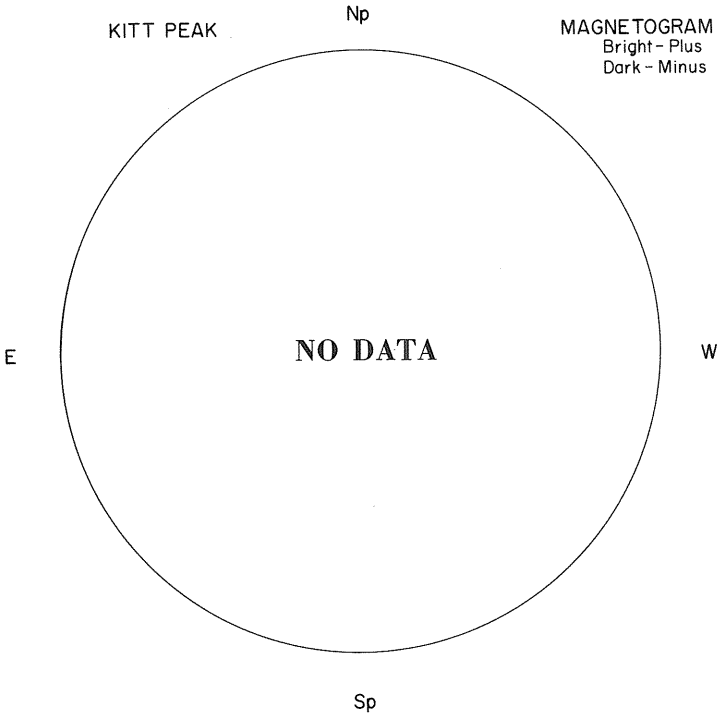


GOOD	S
00 - 1000	- 3.0
04 - 0400	- 3.0
09 - 0700	- 2.5

1500 UT

KITT PEAK

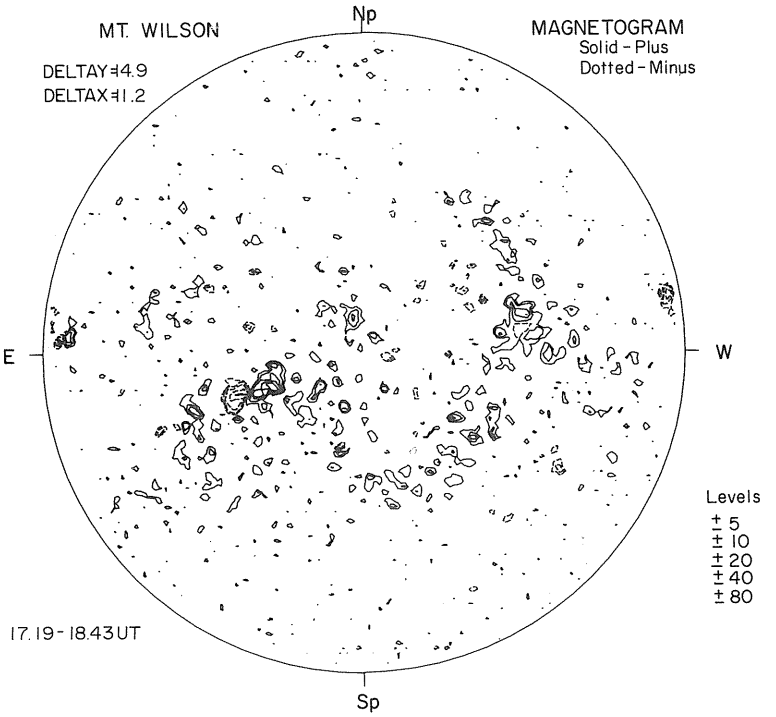
MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON

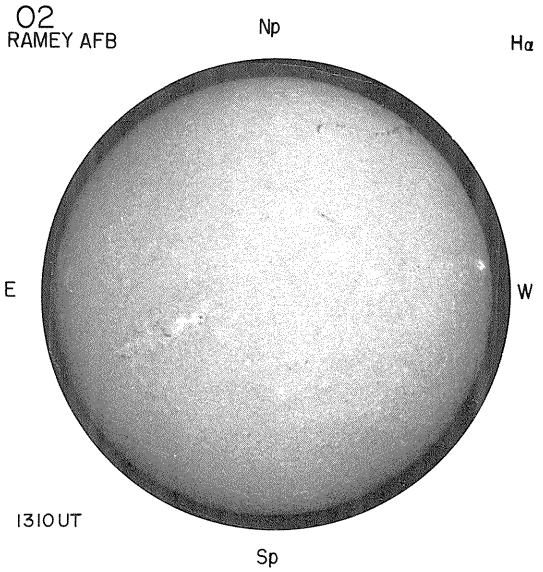
DELTAY = 4.9
DELTAX = 1.2

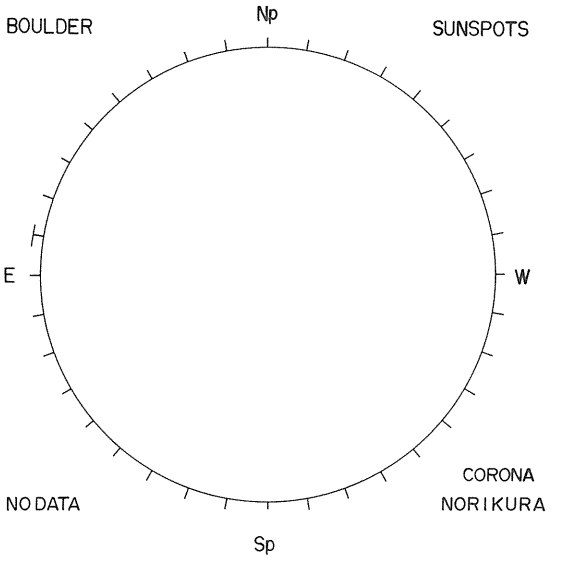
MAGNETOGRAM
Solid - Plus
Dotted - Minus

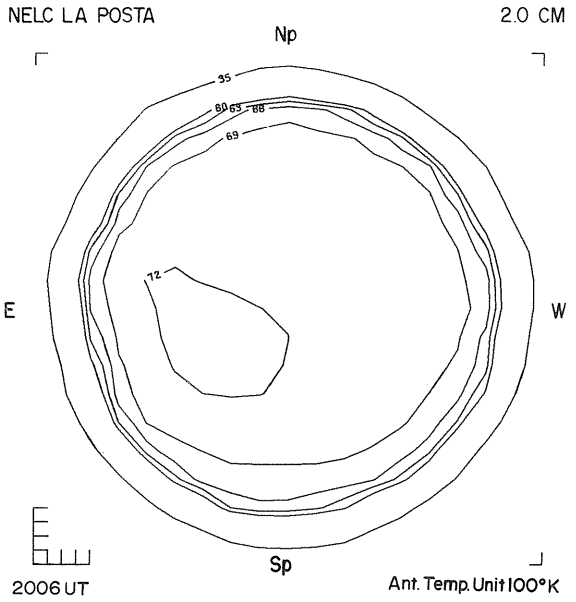


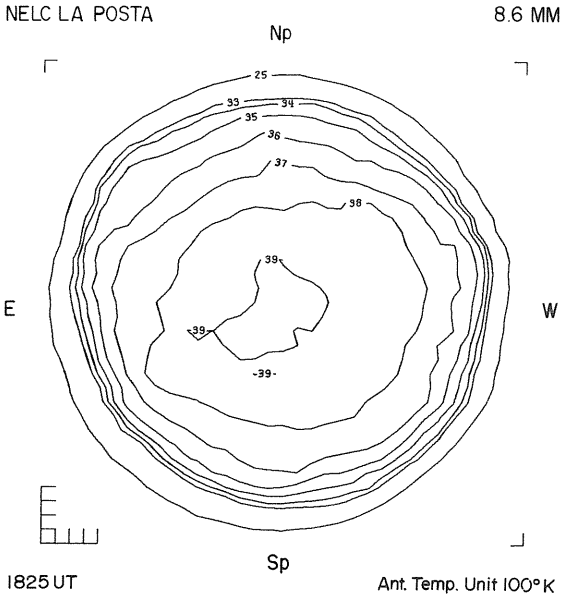
Levels
± 5
± 10
± 20
± 40
± 80

17.19 - 18.43 UT


02
RAMEY AFB
Np
Hα
E
W
1310 UT
Sp


BOULDER
Np
SUNSPOTS
E
W
CORONA
NORIKURA
NO DATA
Sp


NELC LA POSTA
Np
2.0 CM
35
60
65
68
69
72
E
W
Sp
2006 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
25
33
34
35
36
37
38
39
-39
-39
E
W
Sp
1825 UT
Ant. Temp. Unit 100°K

27
Jan 75

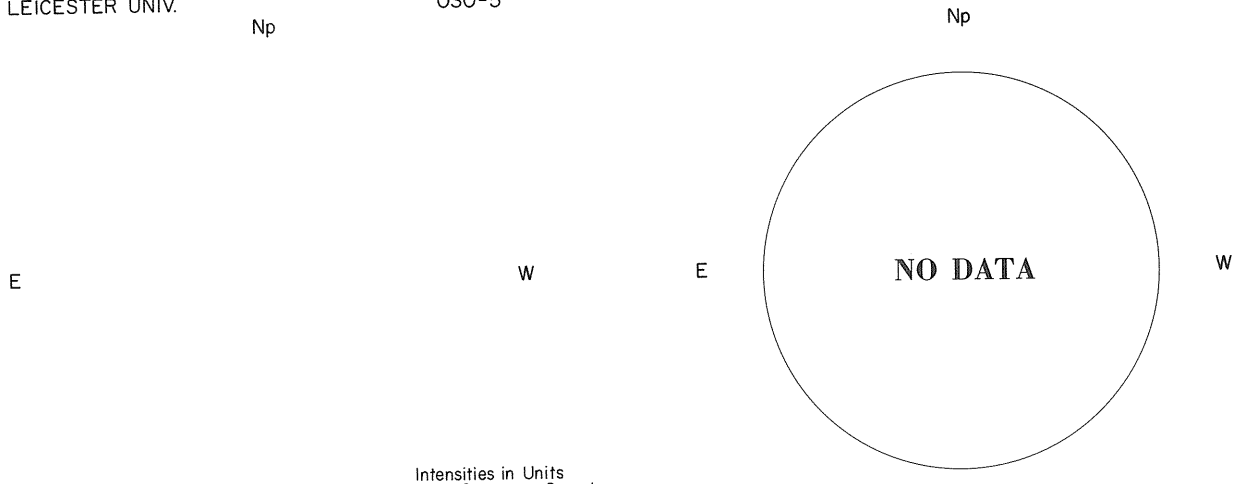
JANUARY 3, 1975 (P = 1.35, B_o = -3.23, L_o = 259.84)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

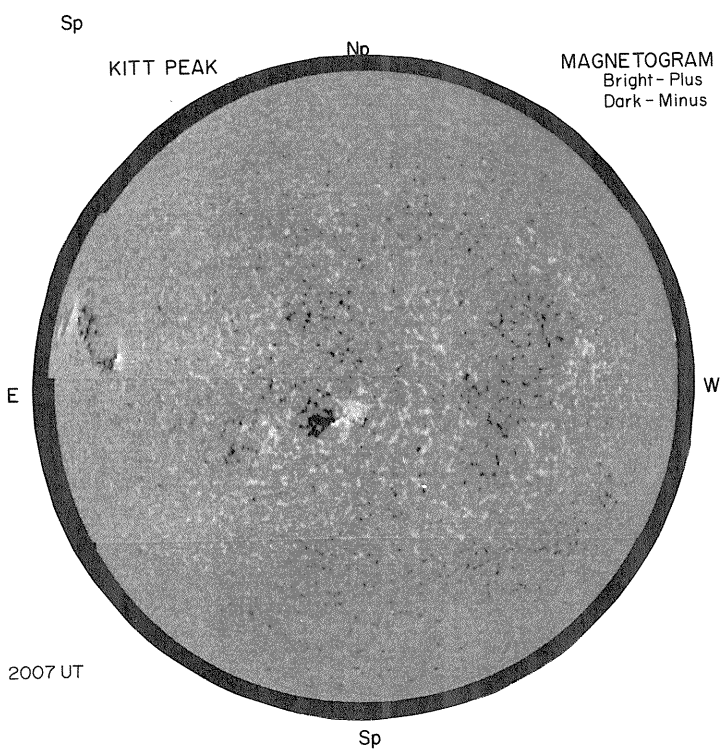
X-RAY
OSO-5

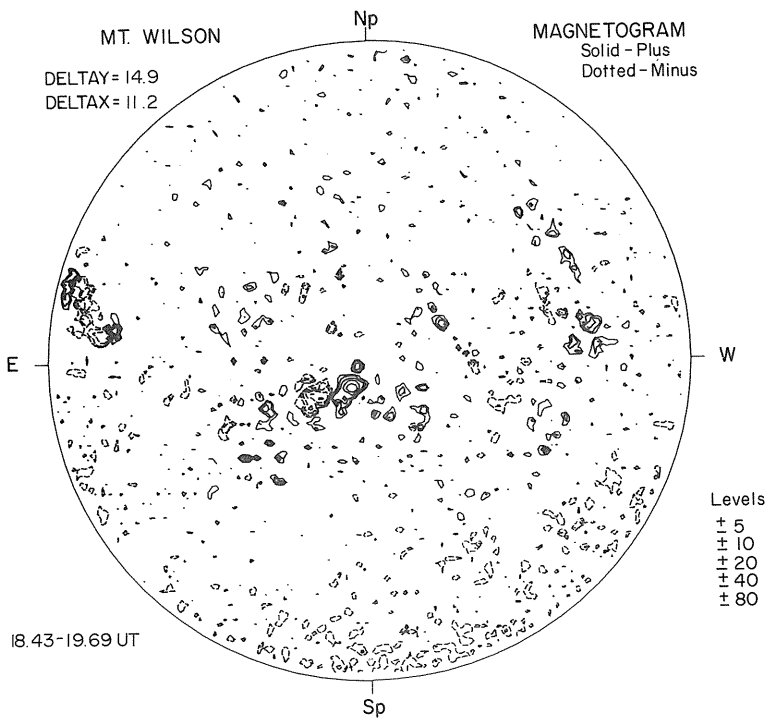
McMATH-HULBERT

CALCIUM REPORT



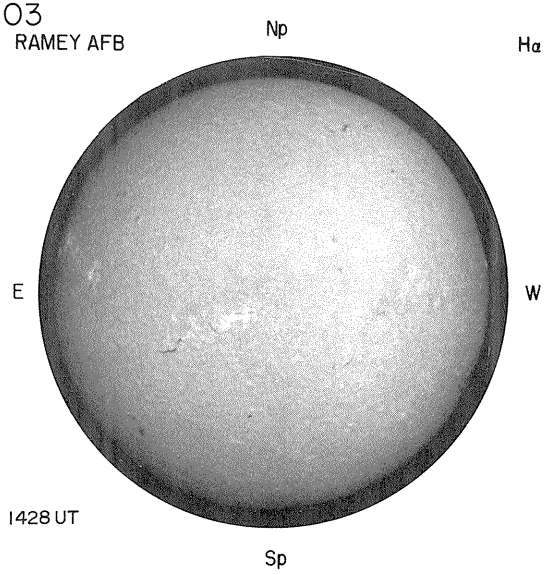
Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}



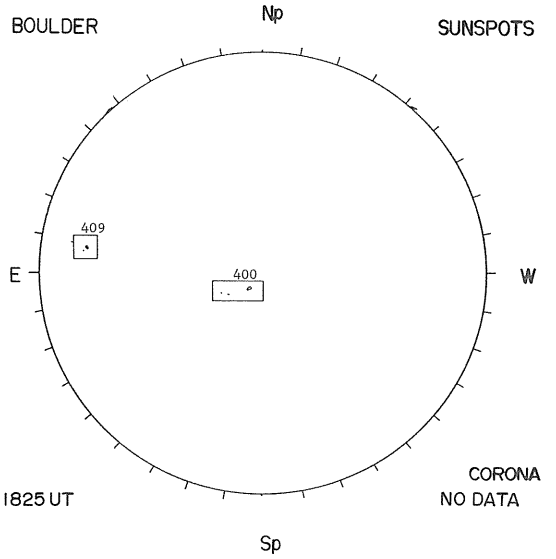


03

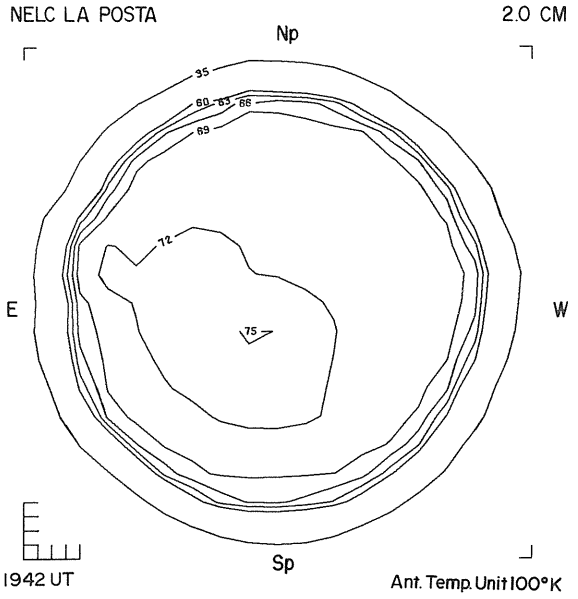
RAMEY AFB



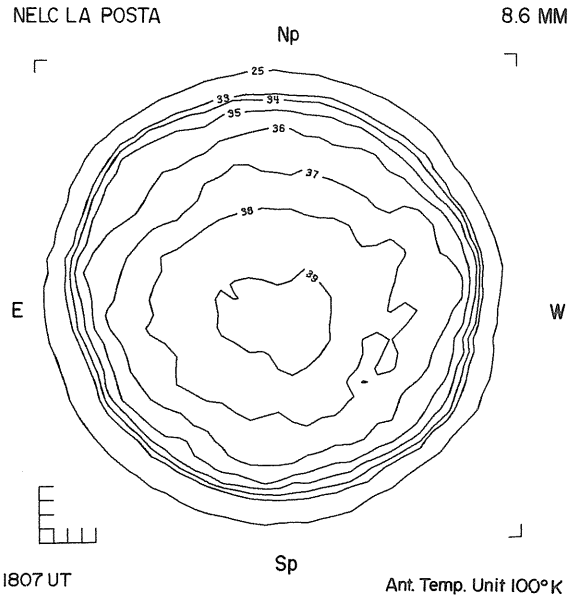
BOULDER



NELC LA POSTA



NELC LA POSTA

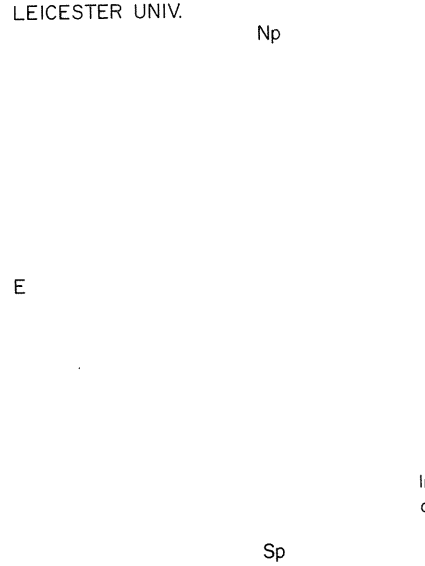


29
Jan 75

JANUARY 4, 1975 (P = 0.87, B_o = -3.35, L_o = 246.67)

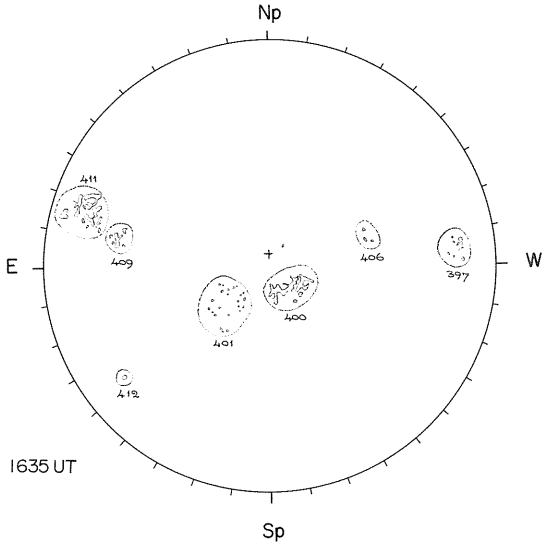
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5



Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



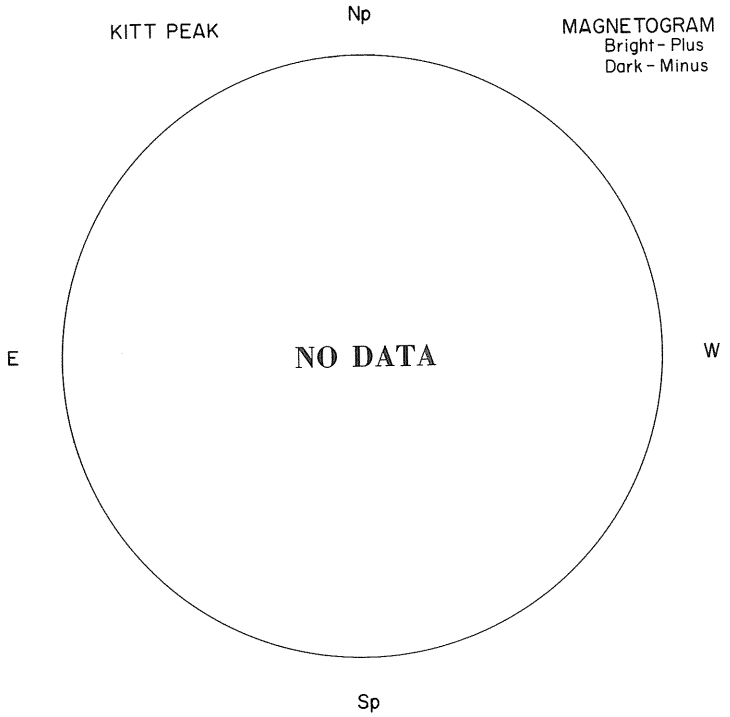
1635 UT

CALCIUM REPORT

GOOD	M
00 - 0800 - 2.5	
09 - 0600 - 2.5	
11 - 1600 - 2.5	

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

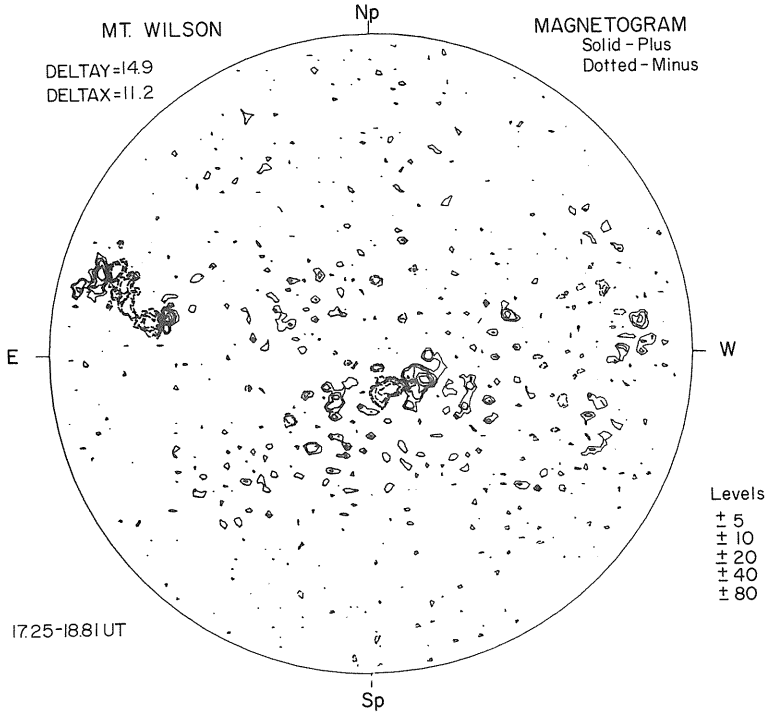


NO DATA

MT. WILSON

DELTAY=14.9
DELTAX=11.2

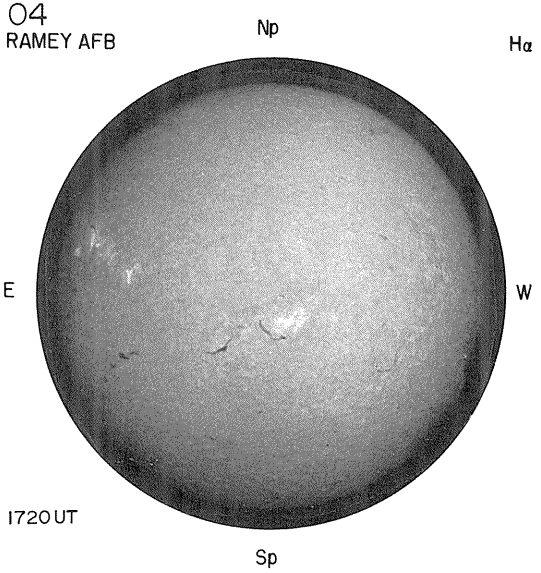
MAGNETOGRAM
Solid - Plus
Dotted - Minus



17.25-18.81 UT

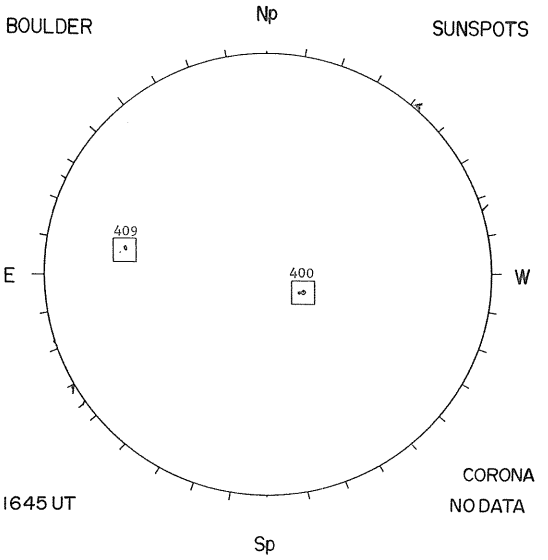
Levels
± 5
± 10
± 20
± 40
± 80

04
RAMEY AFB



1720 UT

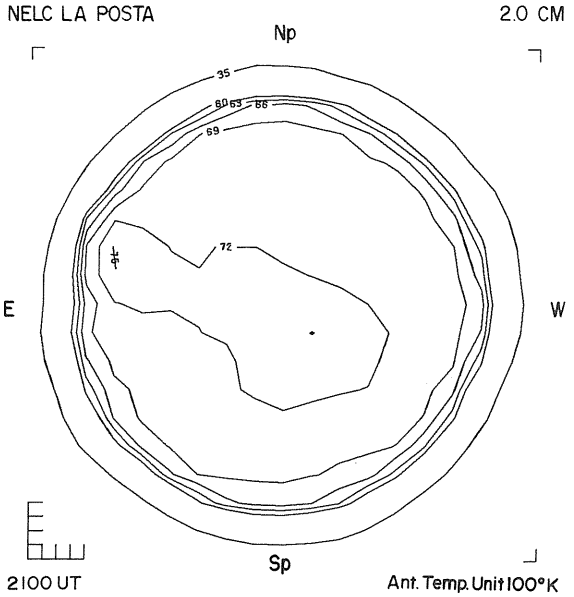
BOULDER



CORONA
NO DATA

1645 UT

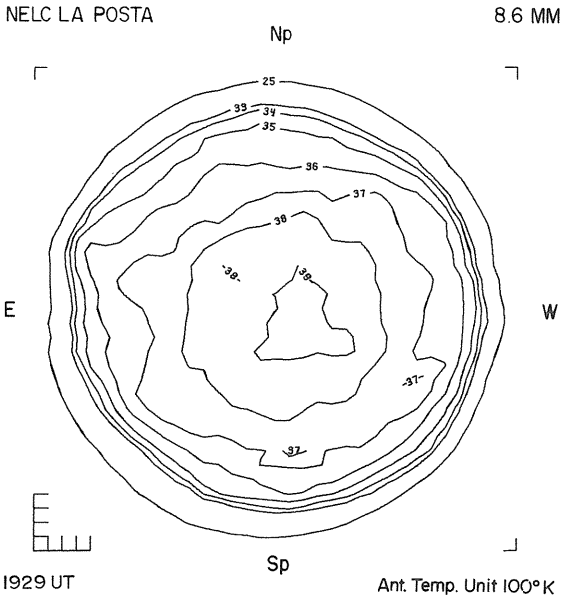
NELC LA POSTA



2100 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1929 UT

Ant. Temp. Unit 100°K

JANUARY 5, 1975 (P = 0.38, B_o = -3.46, L_o = 233.50)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

E

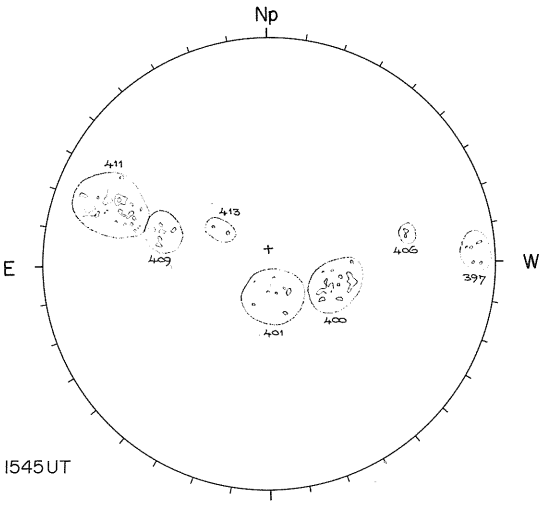
W

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

Sp

McMATH-HULBERT

CALCIUM REPORT

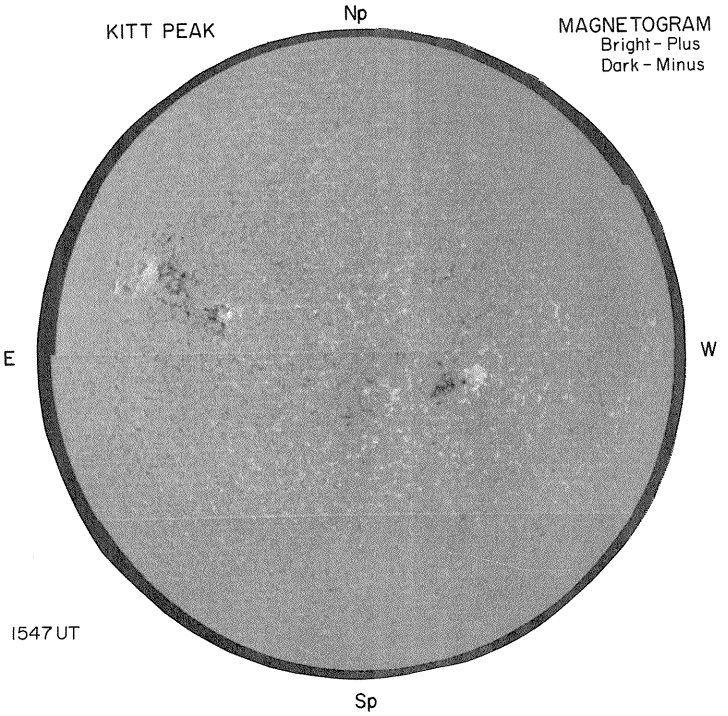


FAIR	S
00 - 1100	- 2.5
11 - 1800	- 3.0

1545 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

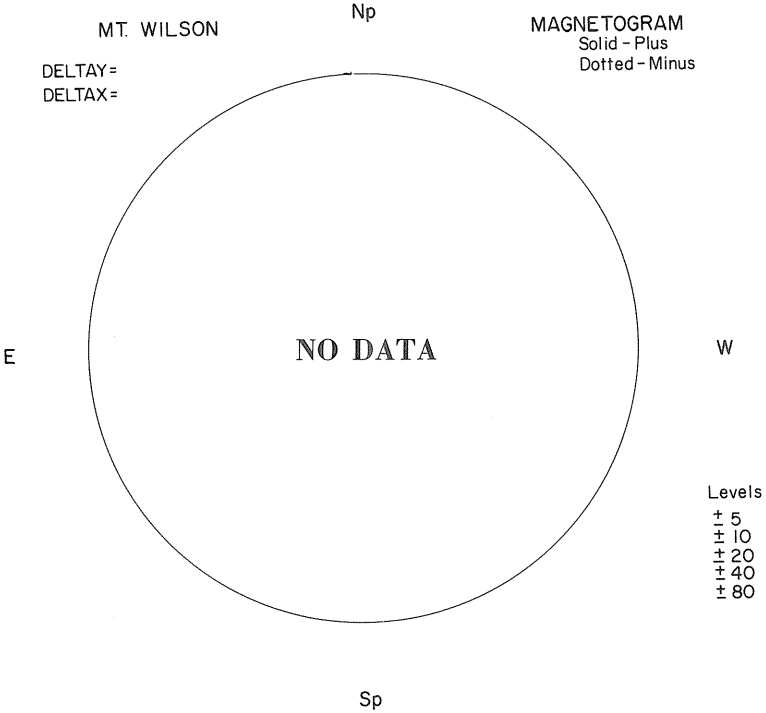


1547 UT

MT. WILSON

DELTAY =
DELTAX =

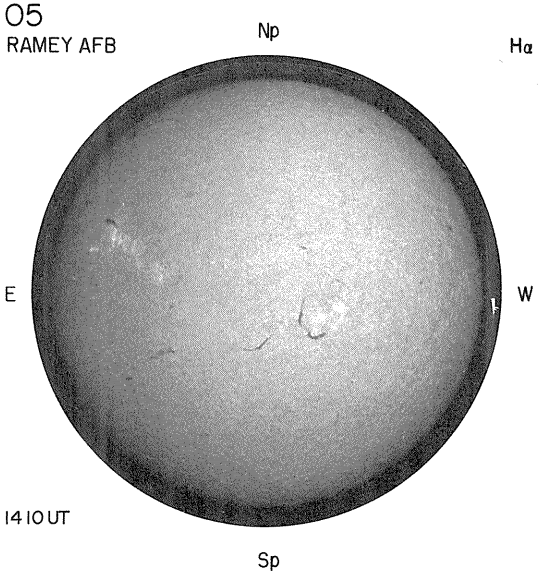
MAGNETOGRAM
Solid - Plus
Dotted - Minus



NO DATA

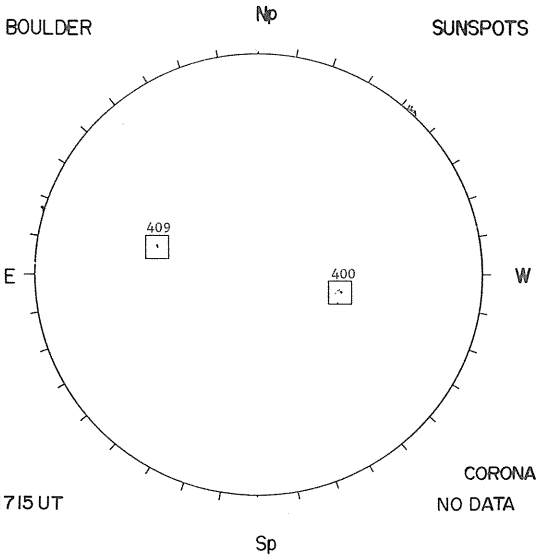
Levels
± 5
± 10
± 20
± 40
± 80

05
RAMEY AFB



1410 UT

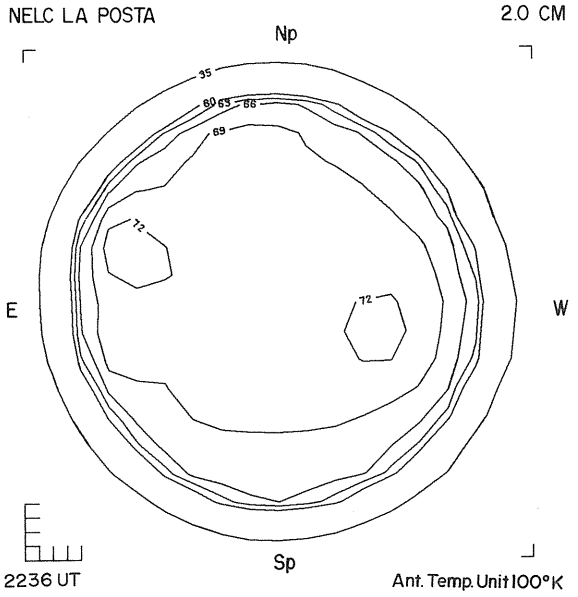
BOULDER



CORONA
NO DATA

1715 UT

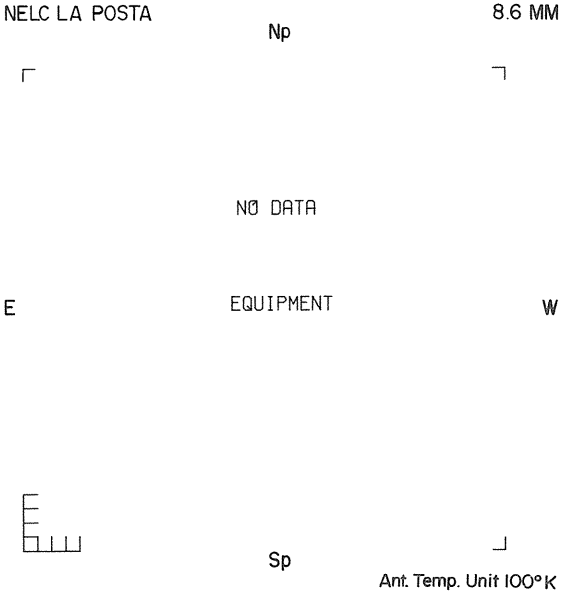
NELC LA POSTA



2236 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



Ant. Temp. Unit 100°K

JANUARY 6, 1975 (P=-0.10, B_o=-3.58, L_o=220.33)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

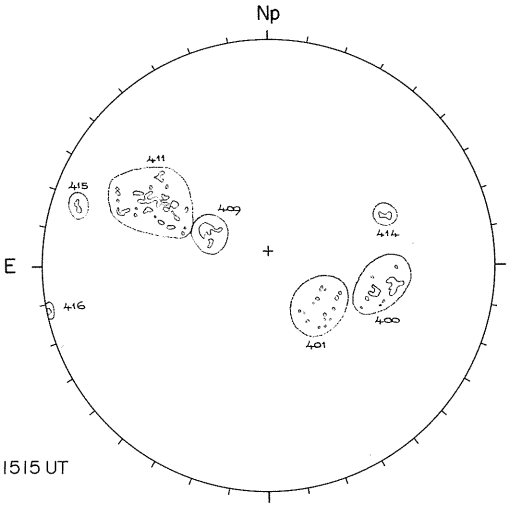
E

W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

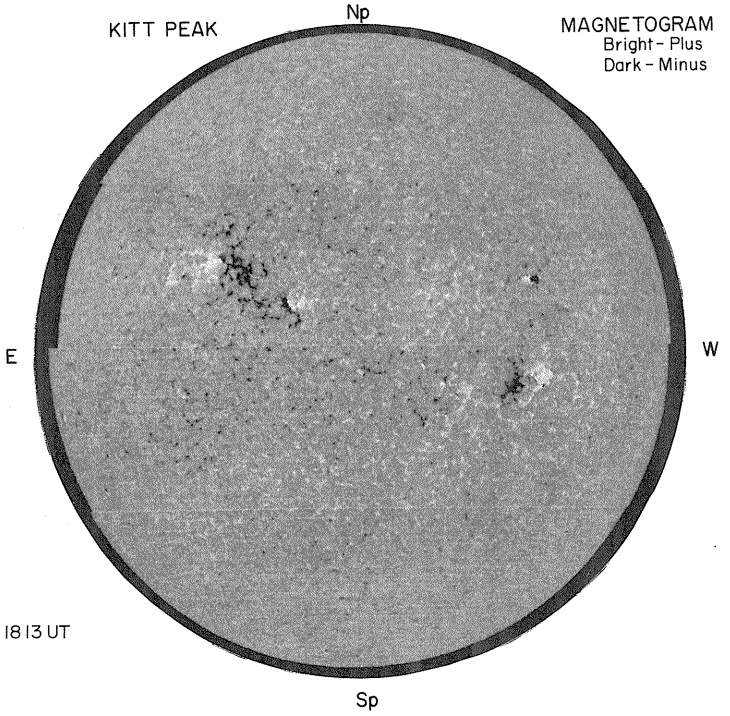


1515 UT

CALCIUM REPORT

FAIR	S
00 - 1100	2.5
09 - 0500	3.0
11 - 2100	3.5
14 - 0200	2.5

KITT PEAK

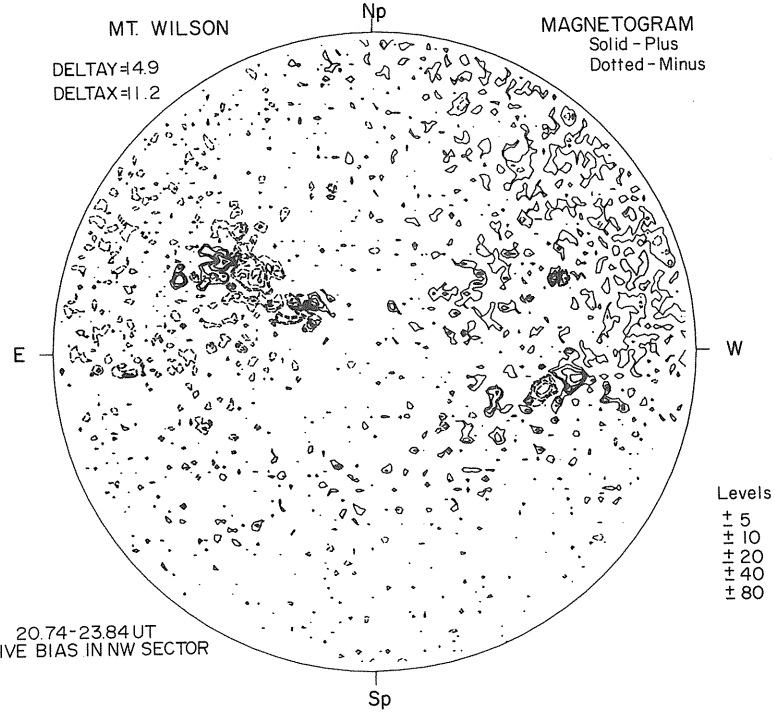


MAGNETOGRAM
Bright - Plus
Dark - Minus

1813 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.2

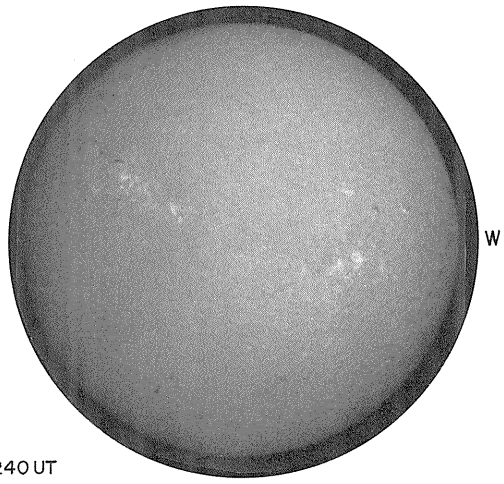


MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

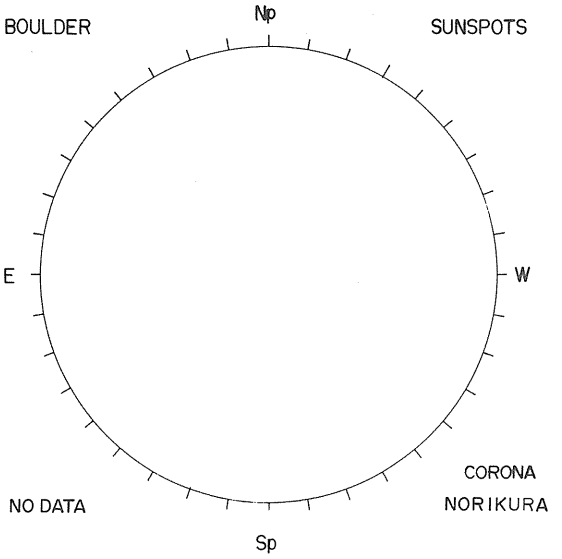
20.74-23.84 UT
POSITIVE BIAS IN NW SECTOR

06
RAMEY AFB



1240 UT

BOULDER

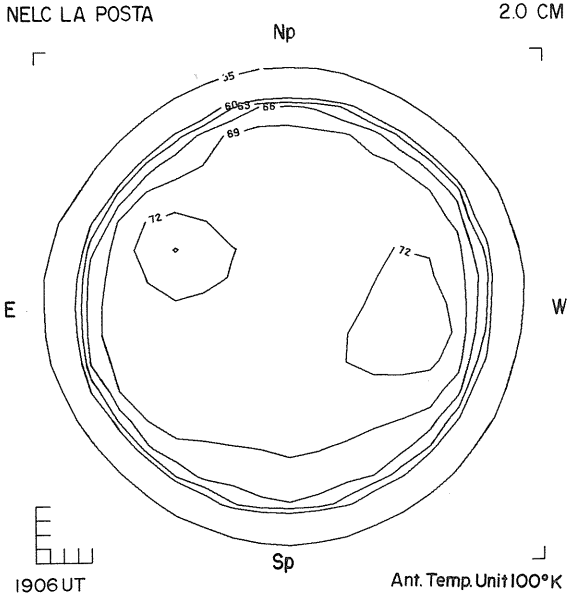


NO DATA

CORONA
NORIKURA

NELC LA POSTA

2.0 CM

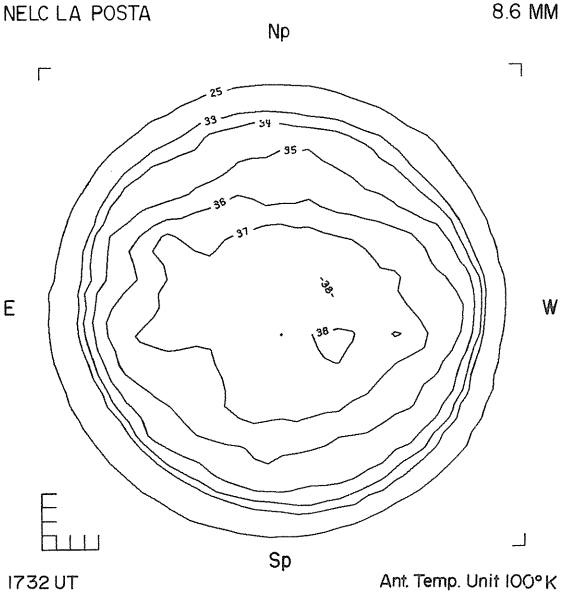


1906 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM



1732 UT

Ant. Temp. Unit 100°K

JANUARY 7, 1975 (P=-0.59, B_o=-3.69, L_o=207.16)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

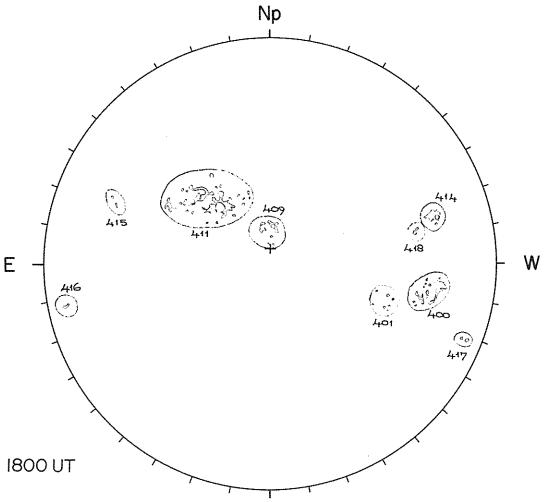
E

W

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

Sp

McMATH-HULBERT

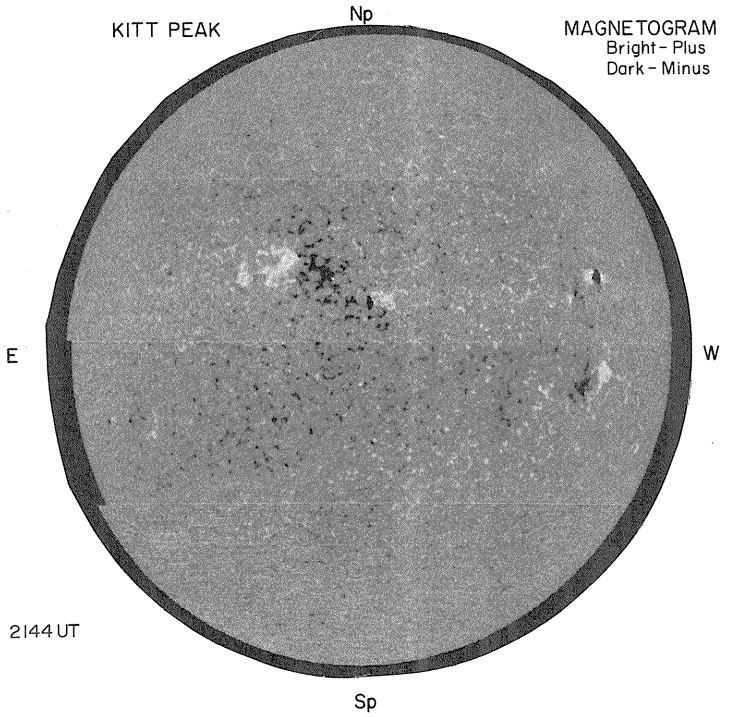


1800 UT

CALCIUM REPORT

V.GOOD	M
09 - 0500 - 2.5	
11 - 1600 - 2.5	
14 - 0600 - 3.0	
16 - 0200 - 2.5	

KITT PEAK

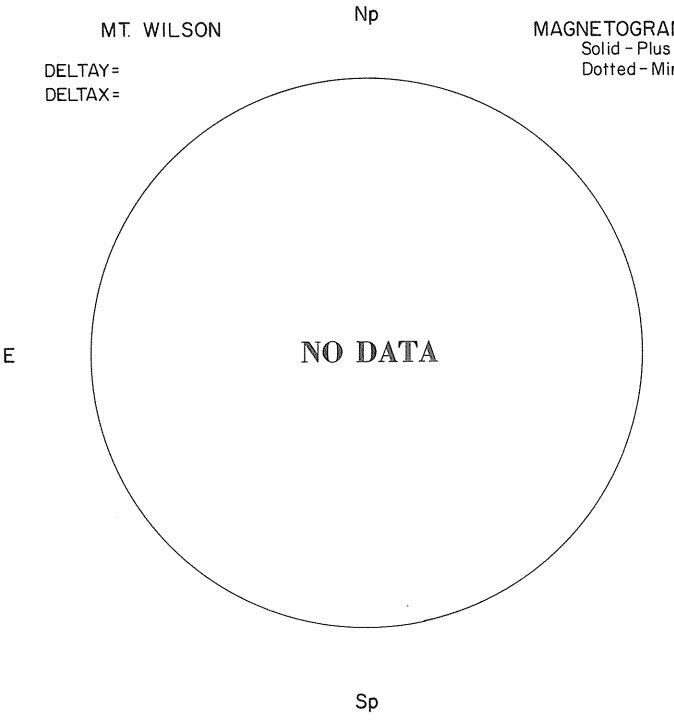


2144 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

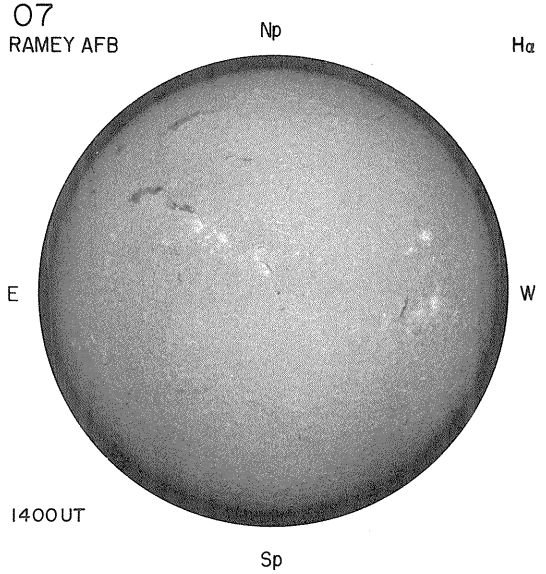
DELTAY=
DELTAX=

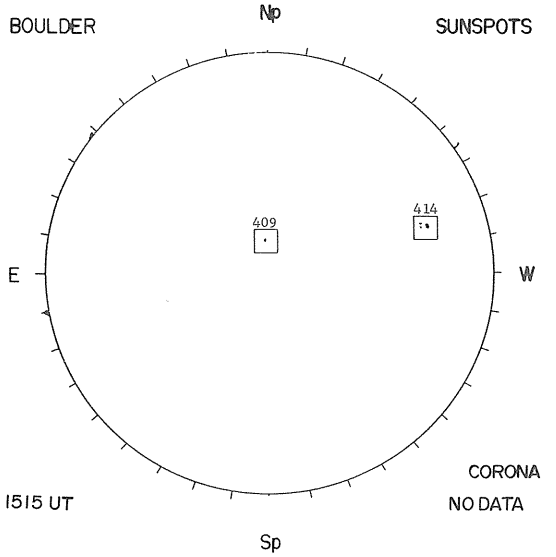


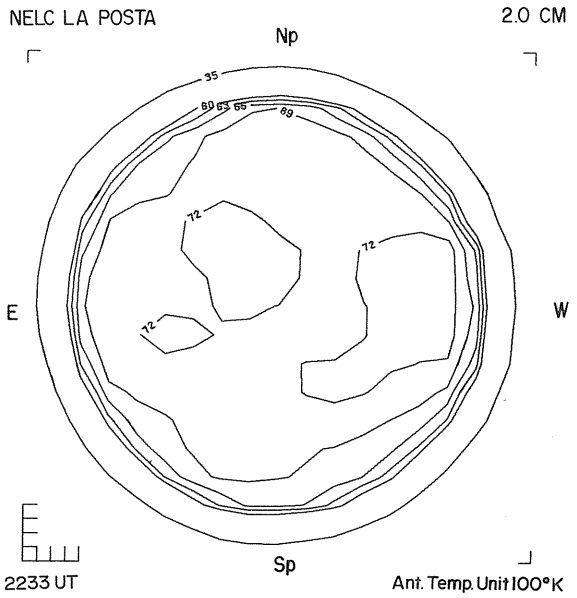
MAGNETOGRAM
Solid - Plus
Dotted - Minus

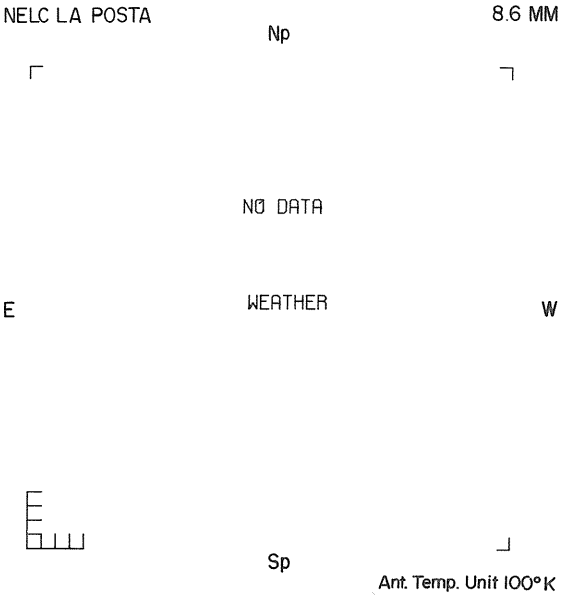
Levels
± 5
± 10
± 20
± 40
± 80

07
RAMEY AFB


Np
Hα
E
W
1400 UT
Sp


BOULDER
Np
SUNSPOTS
409
414
E
W
CORONA
NO DATA
1515 UT
Sp


NELC LA POSTA
Np
2.0 CM
35
80 65 66
69
72
72
72
E
W
2233 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
NO DATA
WEATHER
E
W
Sp
Ant. Temp. Unit 100°K

JANUARY 8, 1975 (P=-1.07, B_o=-3.80, L_o=193.99)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

Np

E W

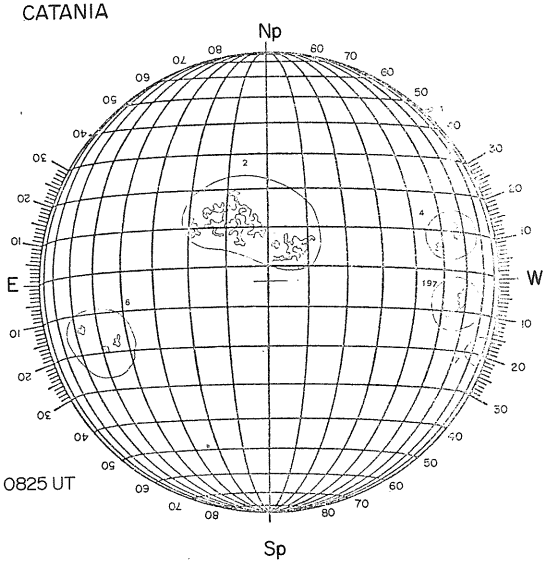
Sp

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

CATANIA

CALCIUM REPORT

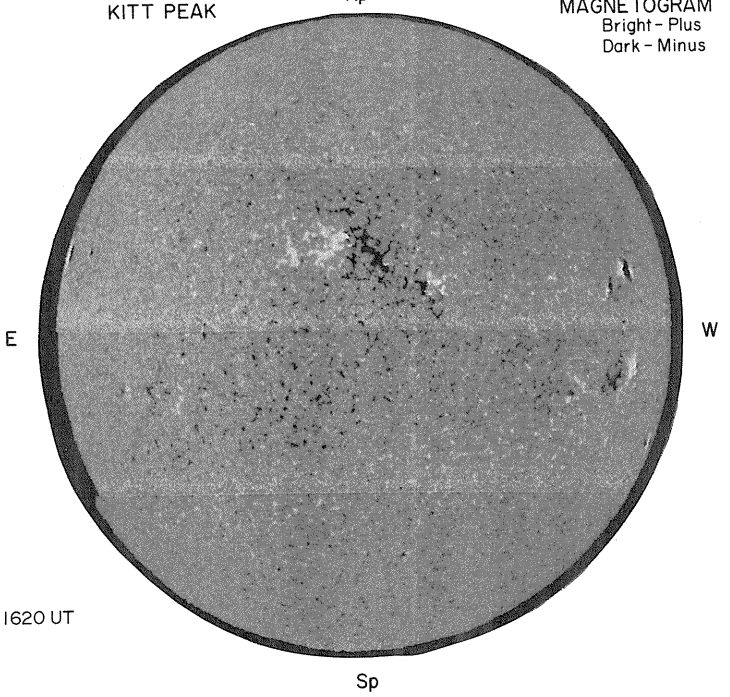


0825 UT

FAIR	EC
04 - 1068	---
02 - 3798	---
06 - 0523	---

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

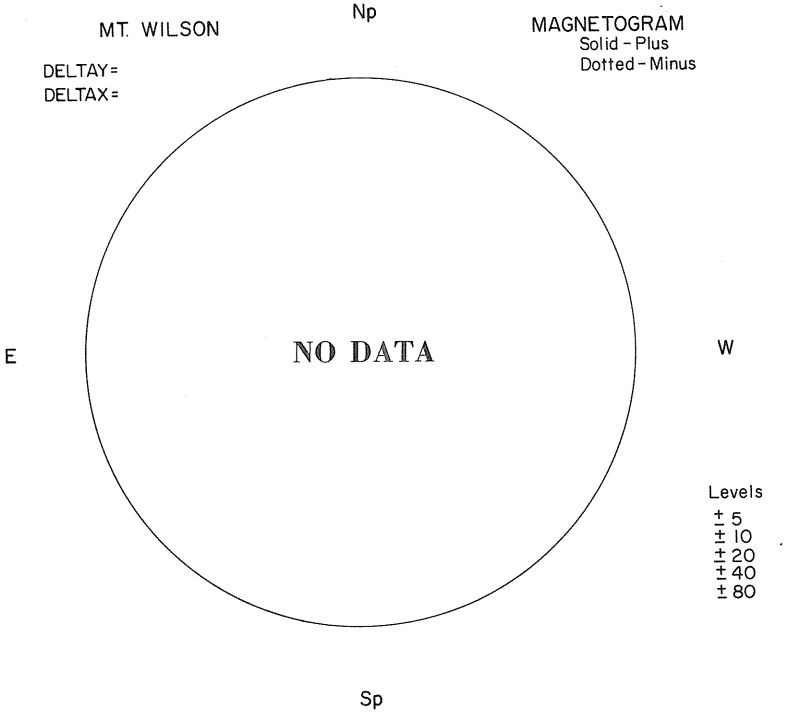


1620 UT

MT. WILSON

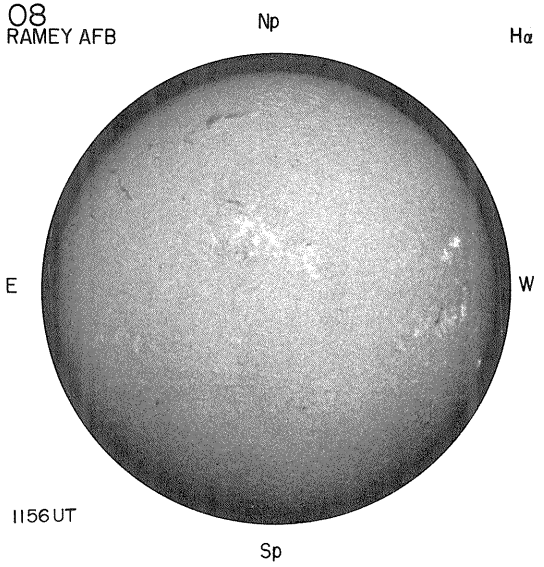
DELTAY=
DELTAX=

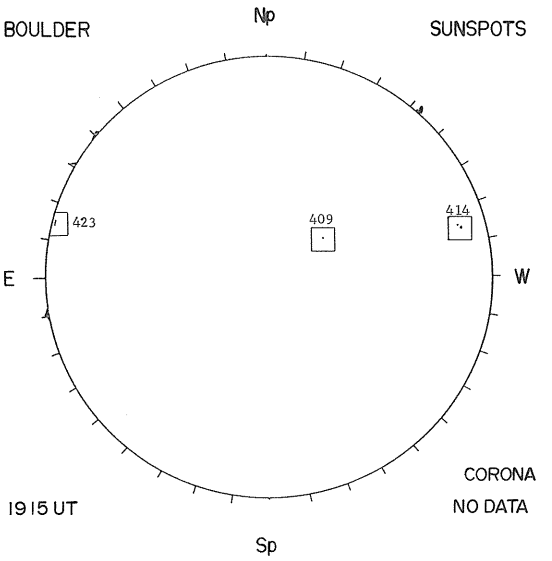
MAGNETOGRAM
Solid - Plus
Dotted - Minus



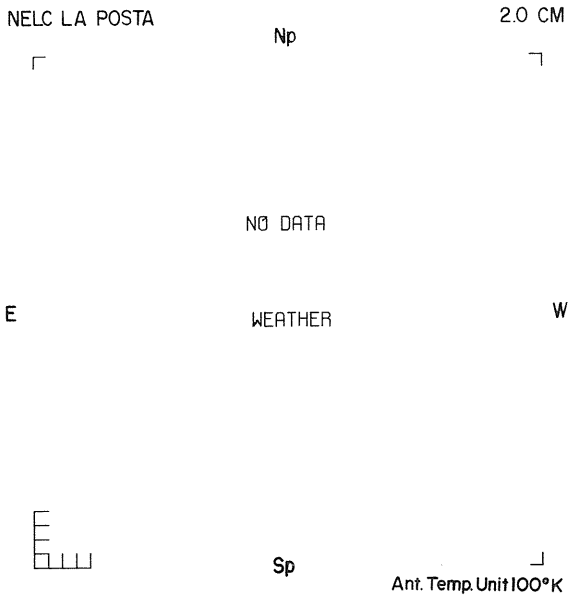
Levels
± 5
± 10
± 20
± 40
± 80

08
RAMEY AFB

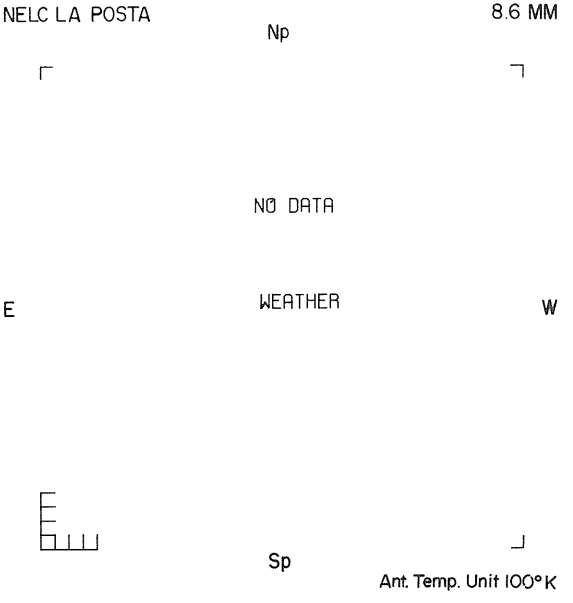




NELC LA POSTA



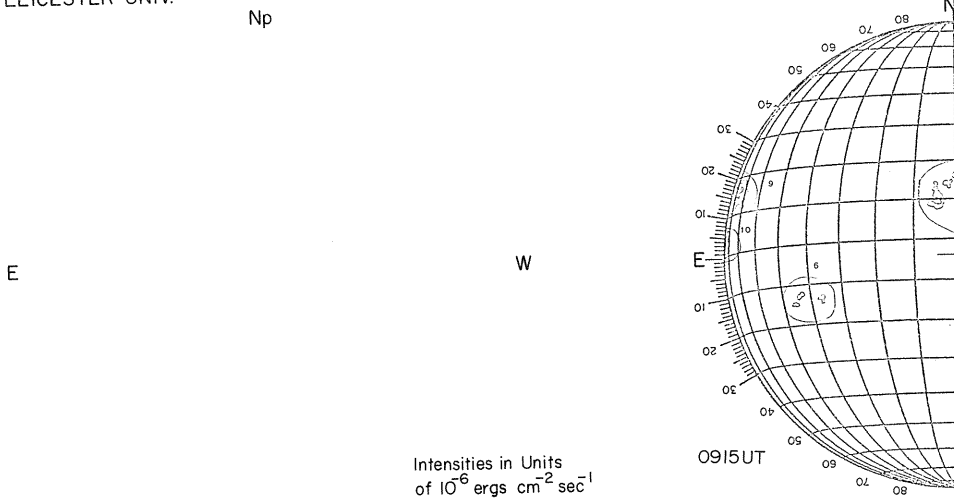
NELC LA POSTA



JANUARY 9, 1975 (P=-1.55, B_o=-3.91, L_o=180.82)

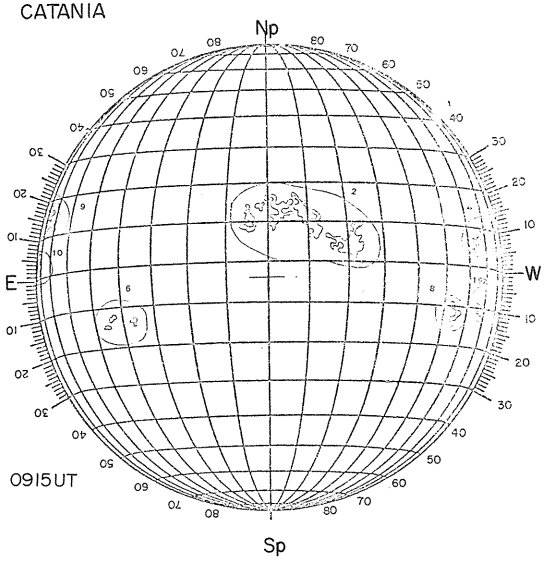
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5



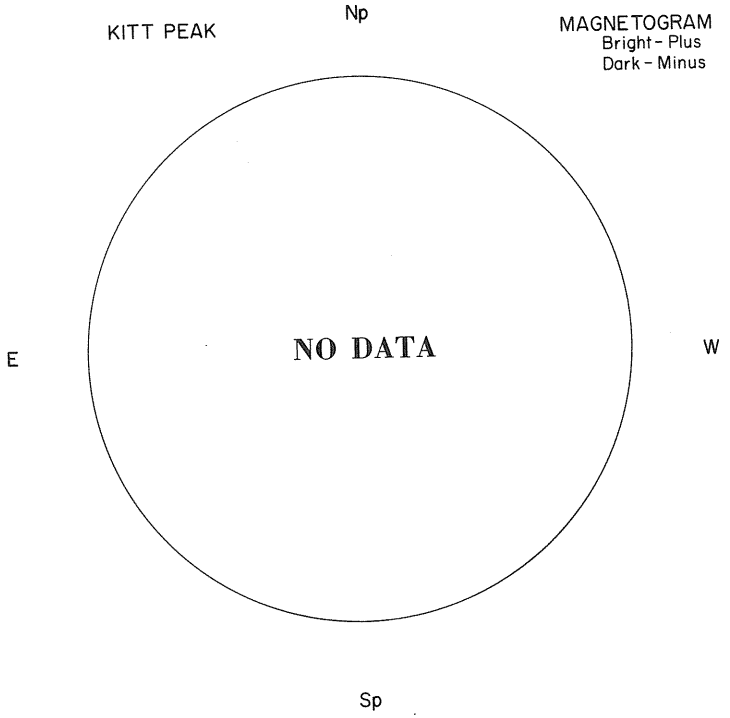
CATANIA

CALCIUM REPORT



FAIR	SS
04 - 0938	---
02 - 4028	---
06 - 0373	---
09 - 2740	---
10 - 2417	---

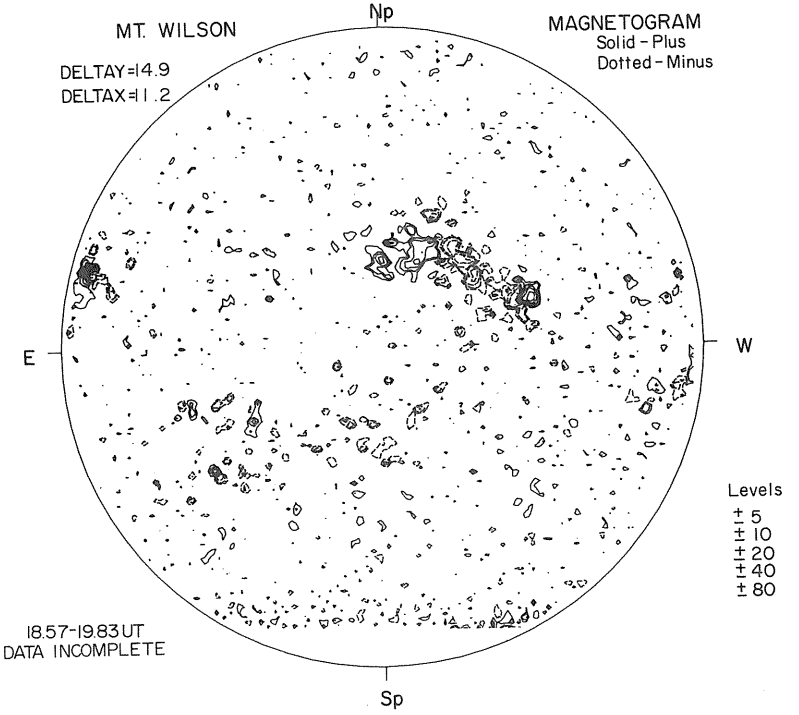
KITT PEAK



MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

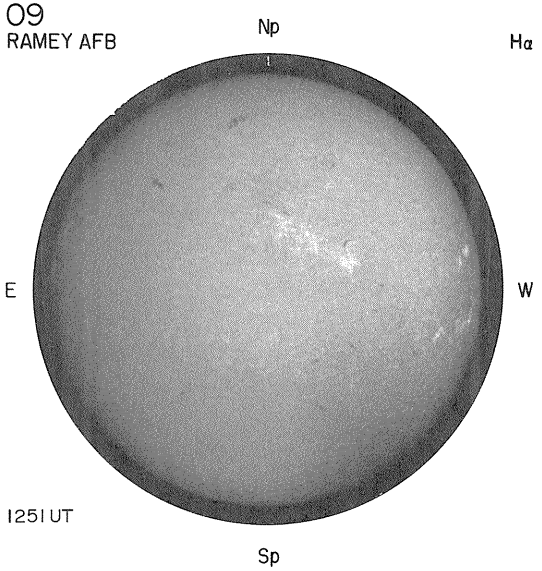
DELTAY=14.9
DELTAX=11.2



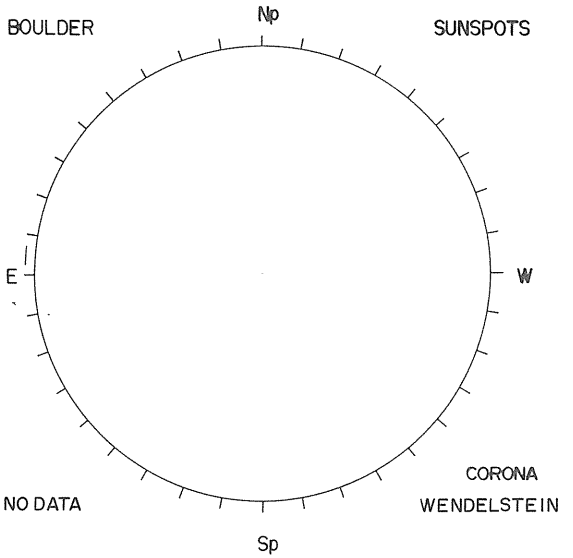
MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

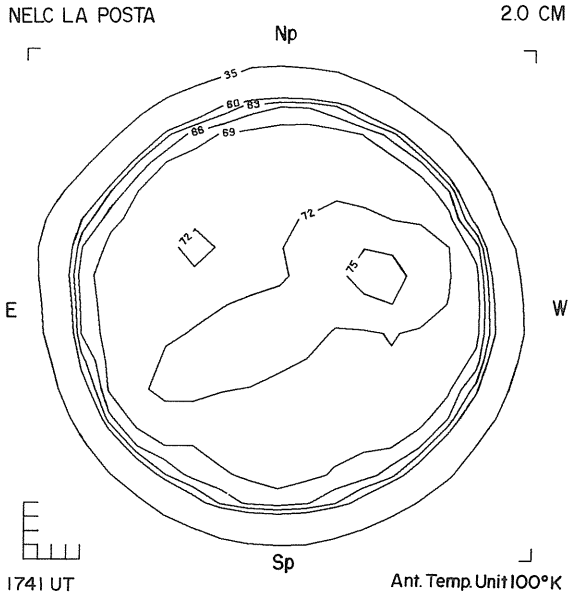
09
RAMEY AFB



1251 UT

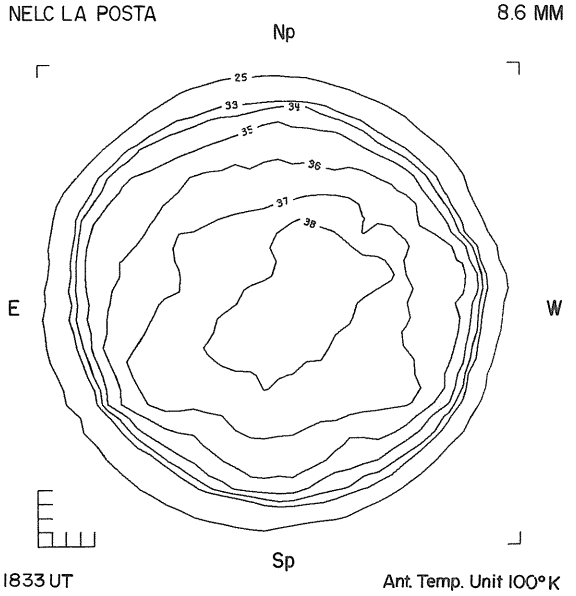


NELC LA POSTA



1741 UT

NELC LA POSTA



1833 UT

JANUARY 10, 1975 (P=-2.04, B_o=-4.01, L_o=167.66)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

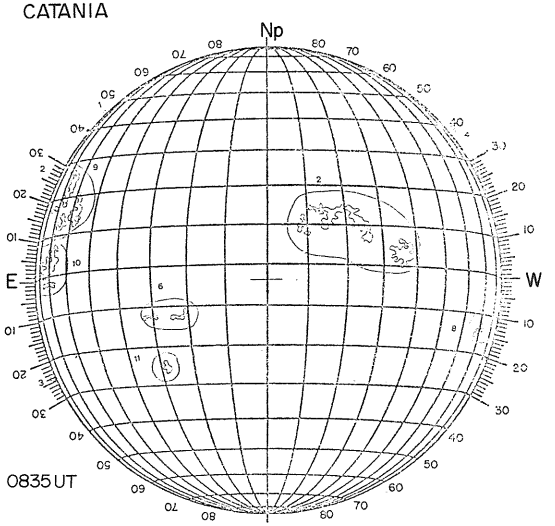
E W

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

Sp

CATANIA

CALCIUM REPORT



FAIR	EC
02 - 0852	---
09 - 3767	---
10 - 2363	---

0835 UT

KITT PEAK

Np

MAGNETOGRAM
Bright - Plus
Dark - Minus

E

NO DATA

W

Sp

MT. WILSON

DELTAY=
DELTAX=

Np

MAGNETOGRAM
Solid - Plus
Dotted - Minus

E

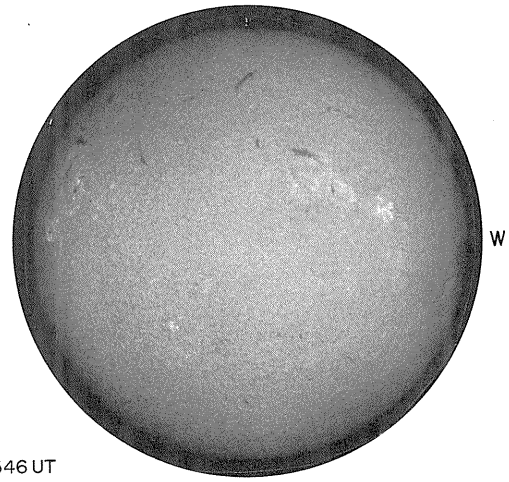
NO DATA

W

Sp

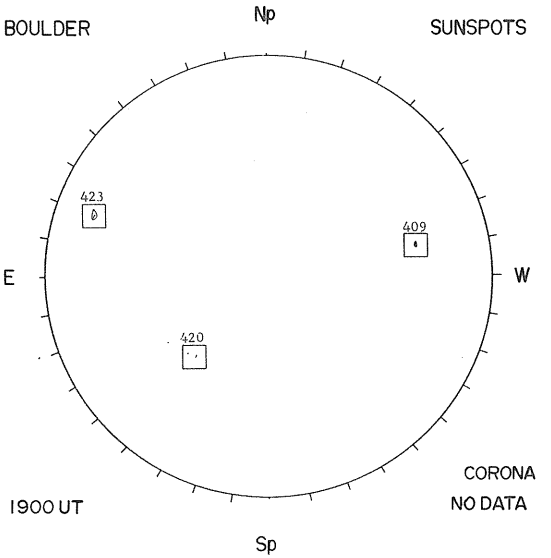
Levels
± 5
± 10
± 20
± 40
± 80

10
RAMEY AFB



1546 UT

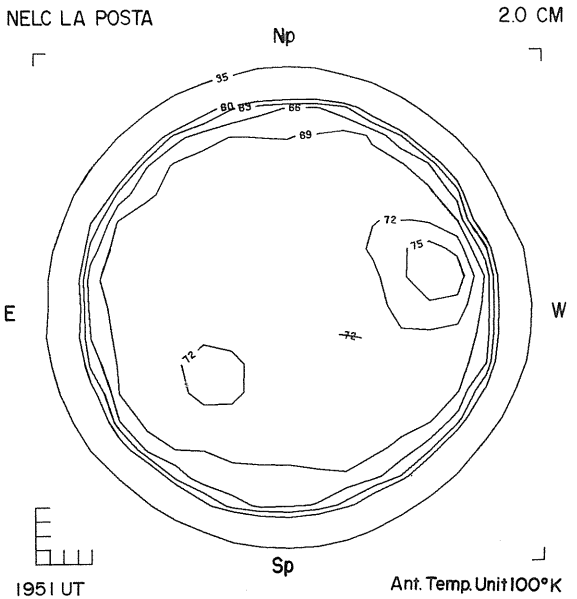
BOULDER



CORONA
NO DATA

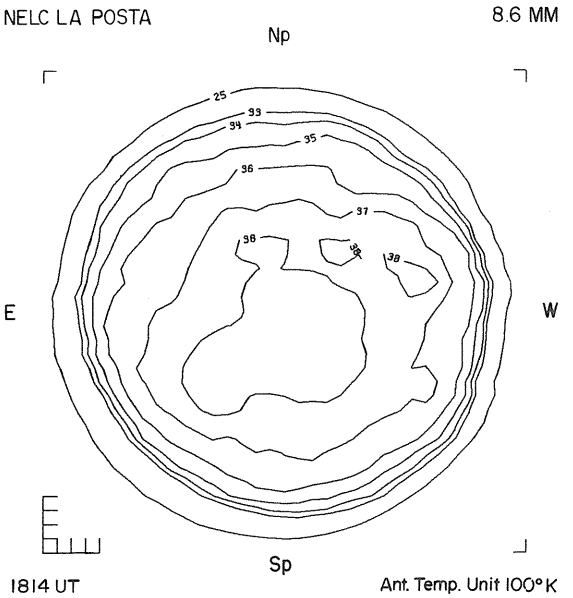
1900 UT

NELC LA POSTA



1951 UT

NELC LA POSTA



1814 UT

JANUARY 11, 1975 (P=-2.52, B_o=-4.12, L_o= 154.49)

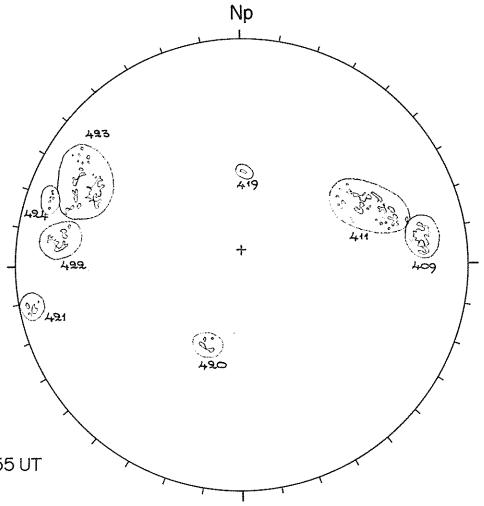
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E
W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

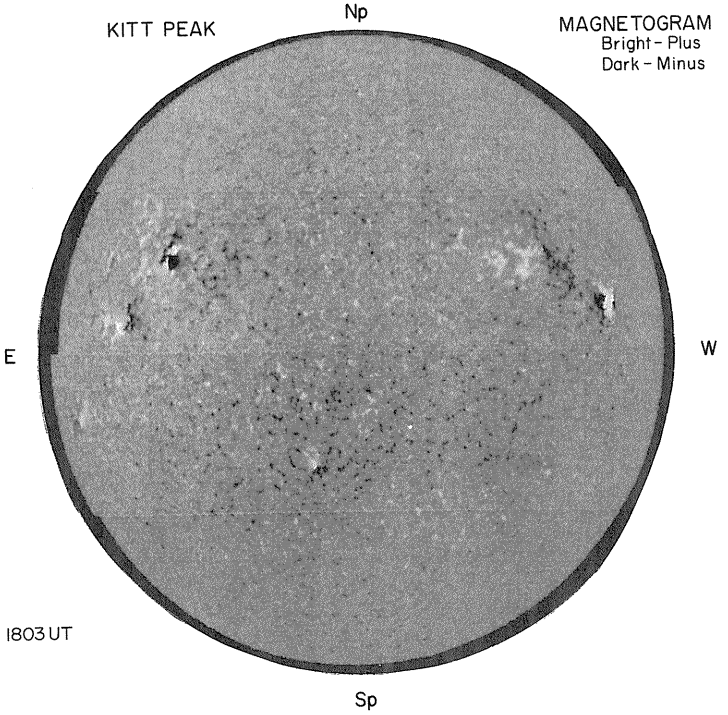


1655 UT

CALCIUM REPORT

FAIR	M
09 - 0900 - 3.0	
22 - 0700 - 2.5	
23 - 1400 - 3.0	

KITT PEAK

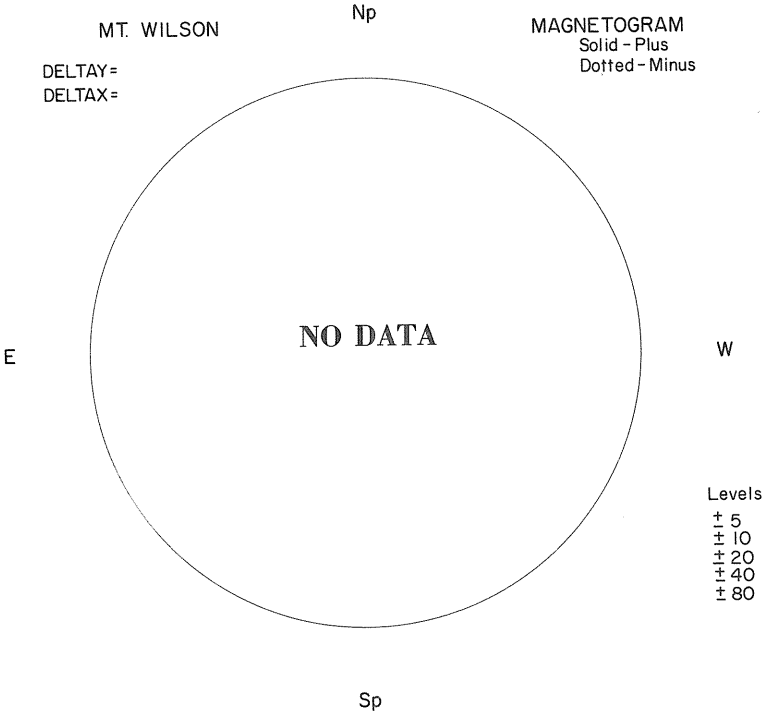


1803 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

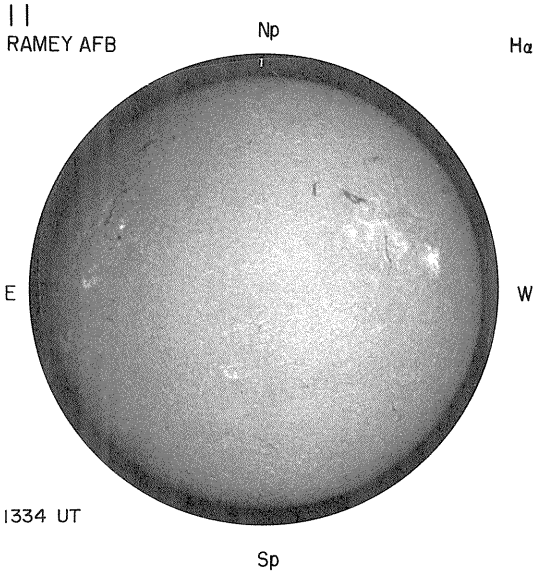
MT. WILSON

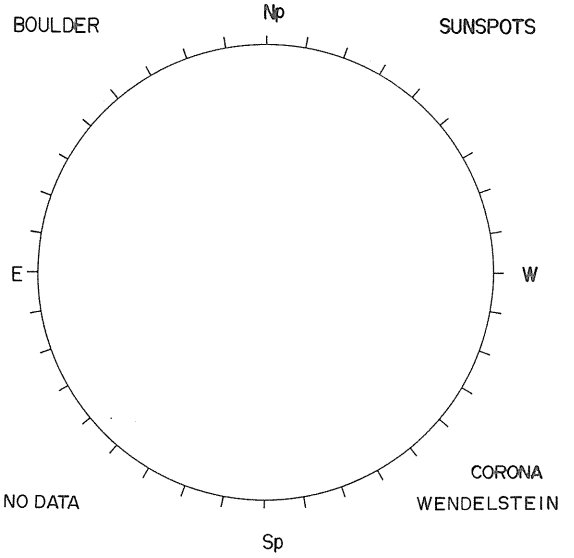
DELTAY=
DELTAX=

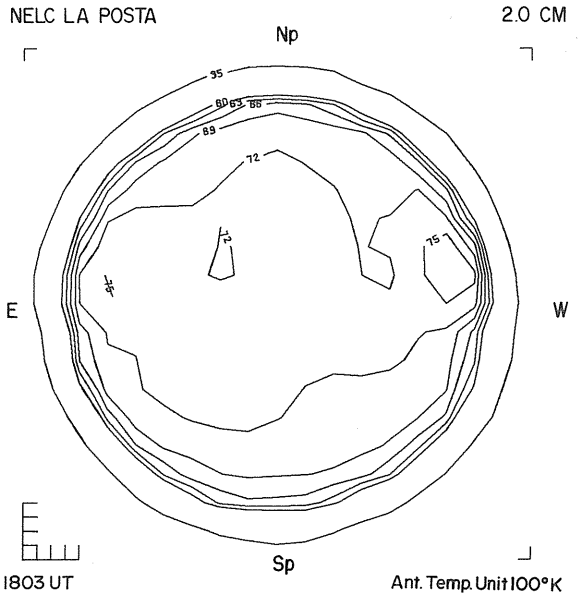


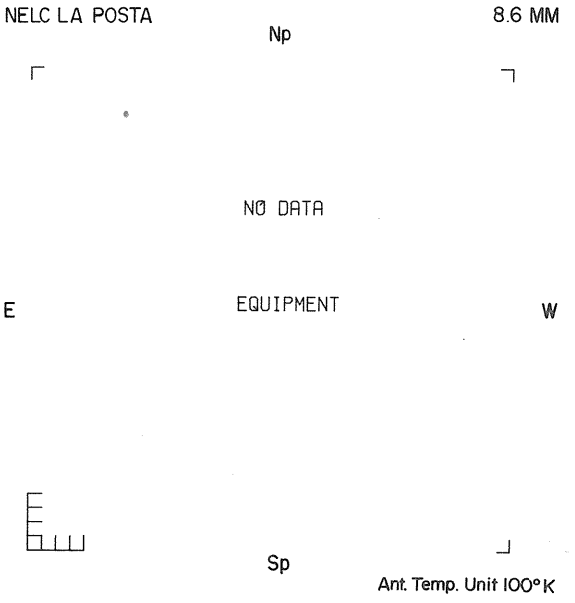
MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80


RAMEY AFB
Np
Hα
E
W
1334 UT
Sp


BOULDER
Np
SUNSPOTS
E
W
CORONA
NO DATA
WENDELSTEIN
Sp


NELC LA POSTA
Np
2.0 CM
95
80
63
86
89
72
72
75
E
W
Sp
1803 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
NO DATA
EQUIPMENT
E
W
Sp
Ant. Temp. Unit 100°K

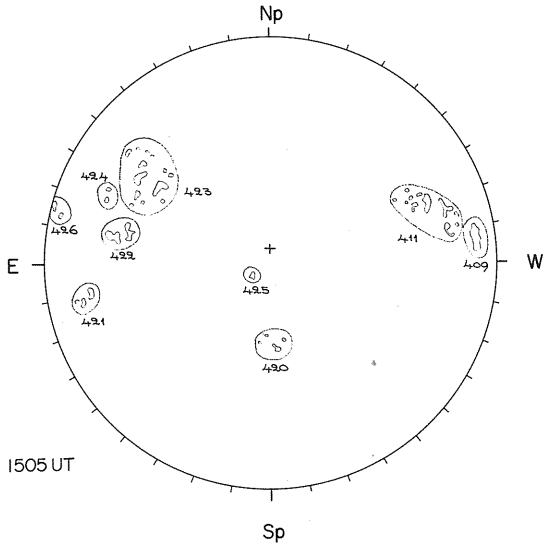
JANUARY 12, 1975 (P=-2.99, B_o=-4.23, L_o = 141.32)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

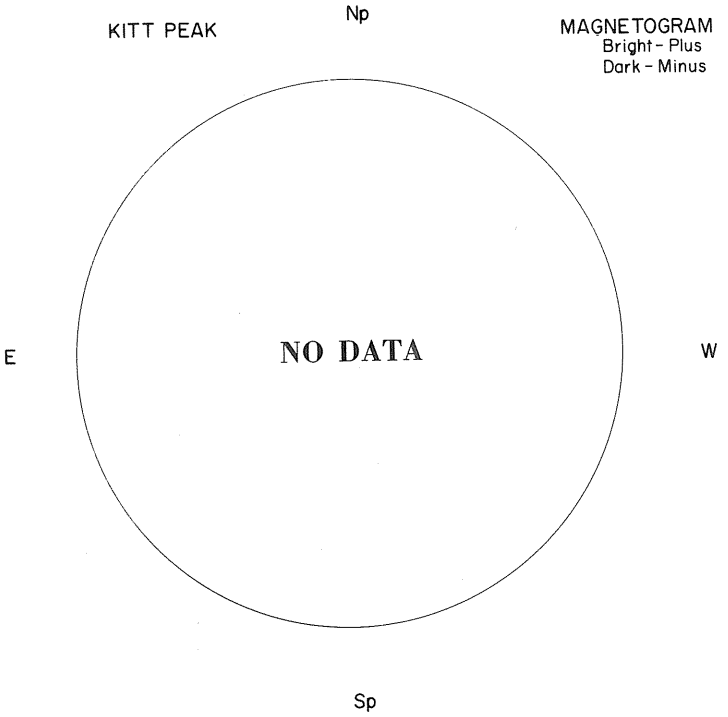


1505 UT

CALCIUM REPORT

POOR	D
09 - 1000	- 3.0
22 - 0800	- 3.0
23 - 1300	- 2.5

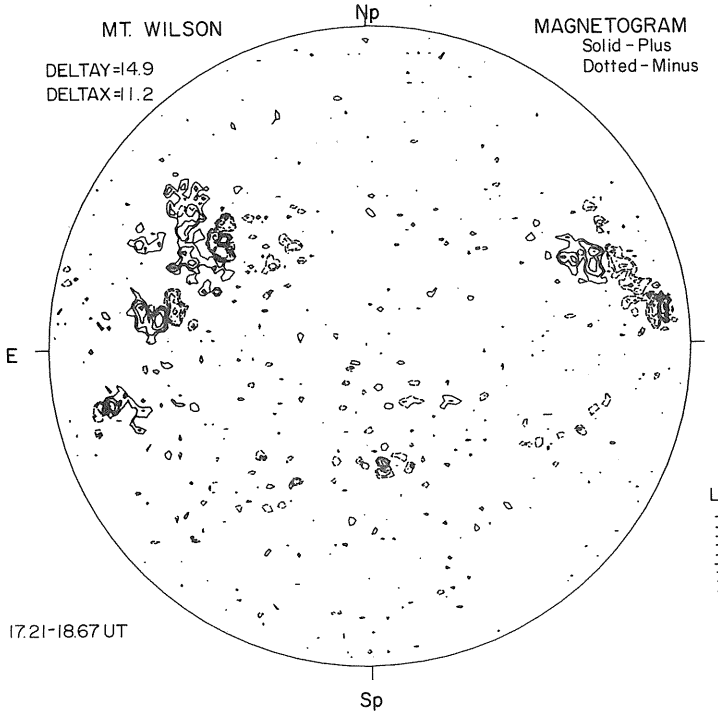
KITT PEAK



MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY=14.9
DELTAX=11.2



MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

17.21-18.67 UT

12
RAMEY AFB

Np

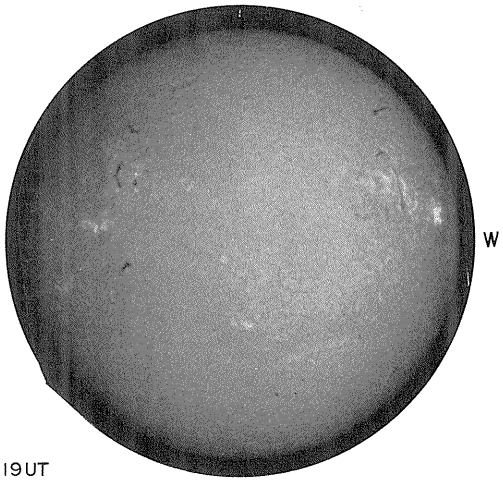
Hα

E

W

1219 UT

Sp



BOULDER

Np

SUNSPOTS

E

W

423

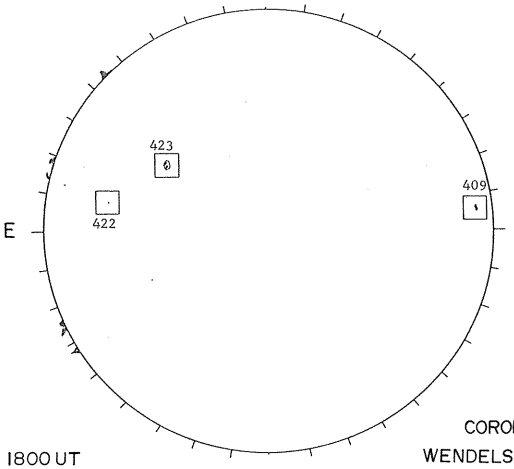
422

409

1800 UT

Sp

CORONA
WENDELSTEIN



NELC LA POSTA

Np

2.0 CM

NO DATA

E

WEATHER

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

NO DATA

E

EQUIPMENT

W

Sp

Ant. Temp. Unit 100°K

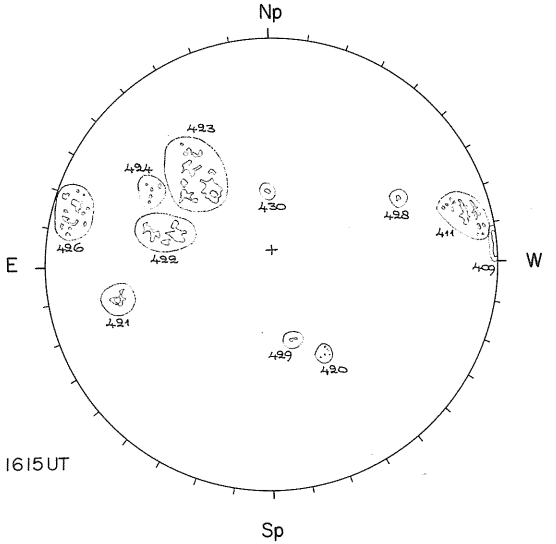
JANUARY 13, 1975 (P=-3.47, B_o=-4.33, L_o= 128.15)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



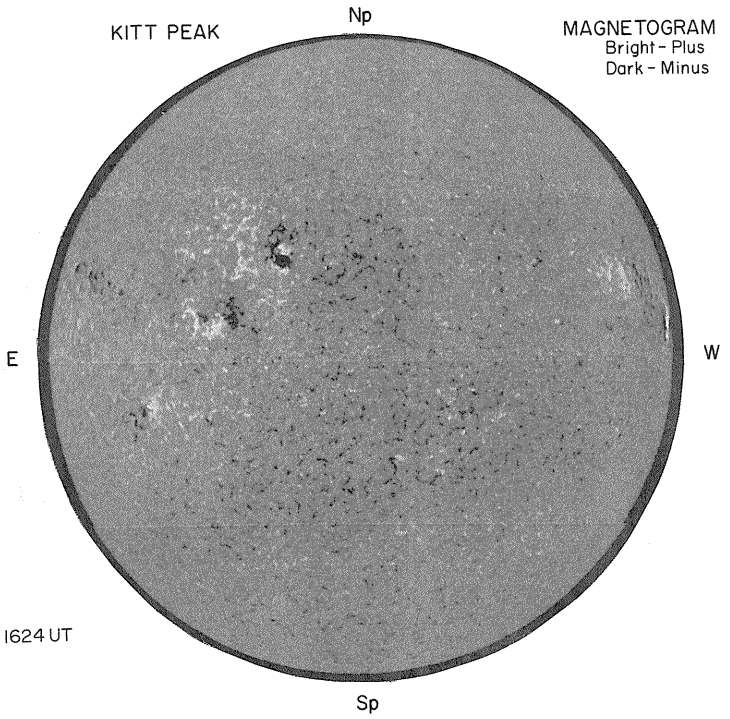
1615 UT

CALCIUM REPORT

POOR	M
09 - 1500 - 3.5	
22 - 1100 - 3.0	
23 - 1500 - 2.5	

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

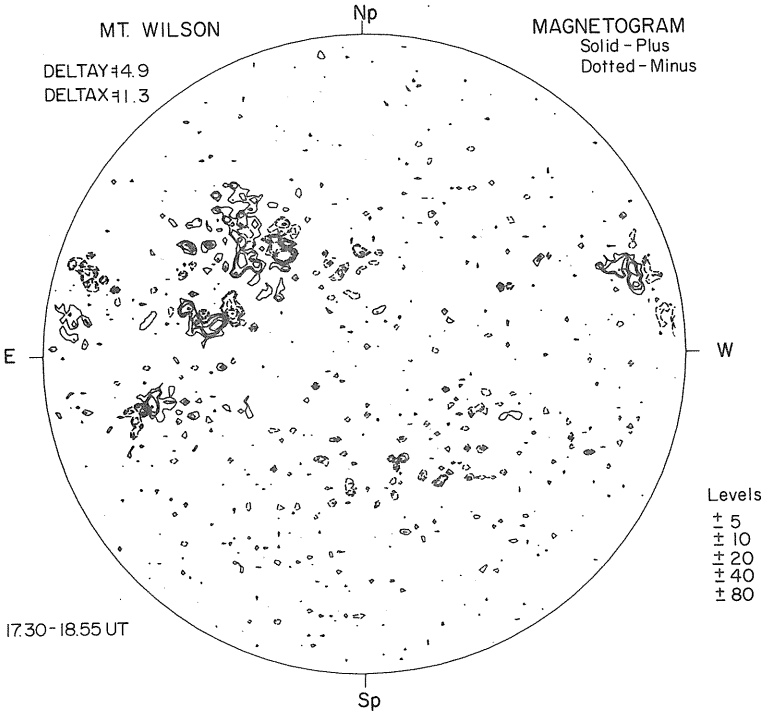


1624 UT

MT. WILSON

DELTAY=4.9
DELTAX=1.3

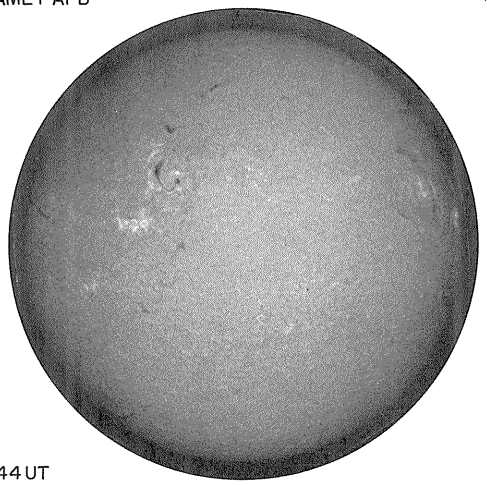
MAGNETOGRAM
Solid - Plus
Dotted - Minus



Levels
± 5
± 10
± 20
± 40
± 80

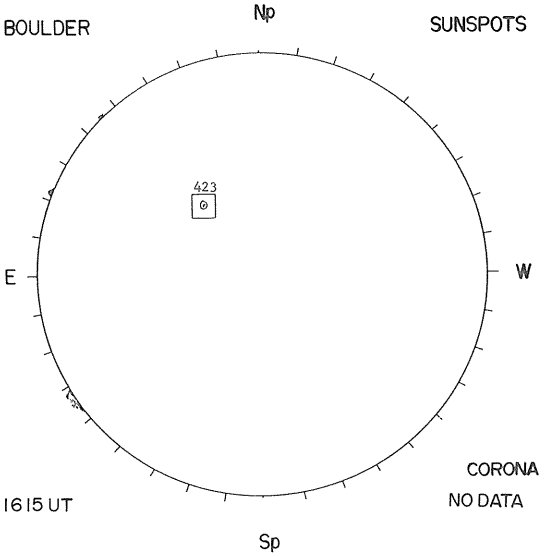
17.30 - 18.55 UT

13
RAMEY AFB



1244 UT

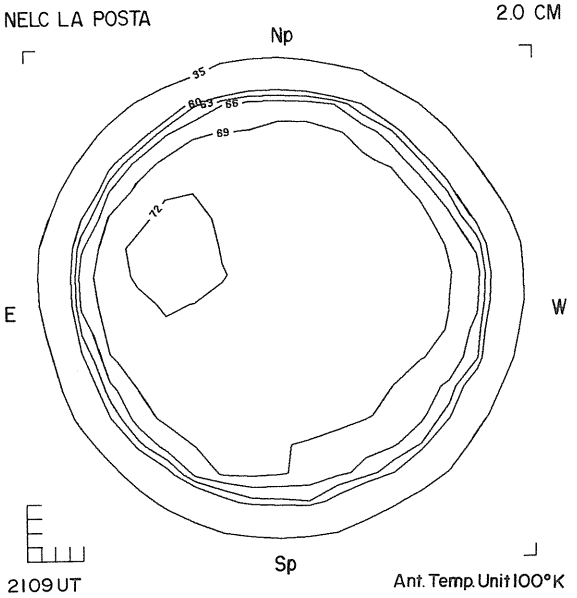
BOULDER



1615 UT

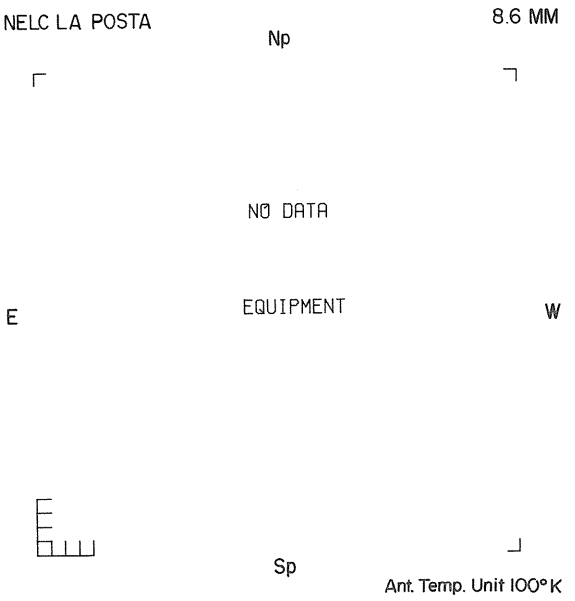
CORONA
NO DATA

NELC LA POSTA



2109 UT

NELC LA POSTA



JANUARY 14, 1975 (P=-3.94, B_o=-4.43, L_o=114.98)

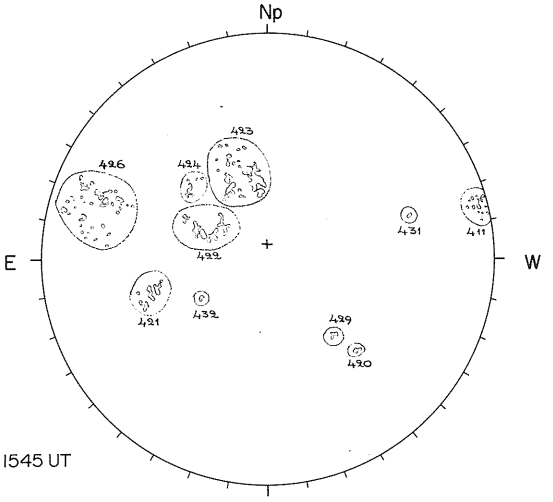
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E
W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

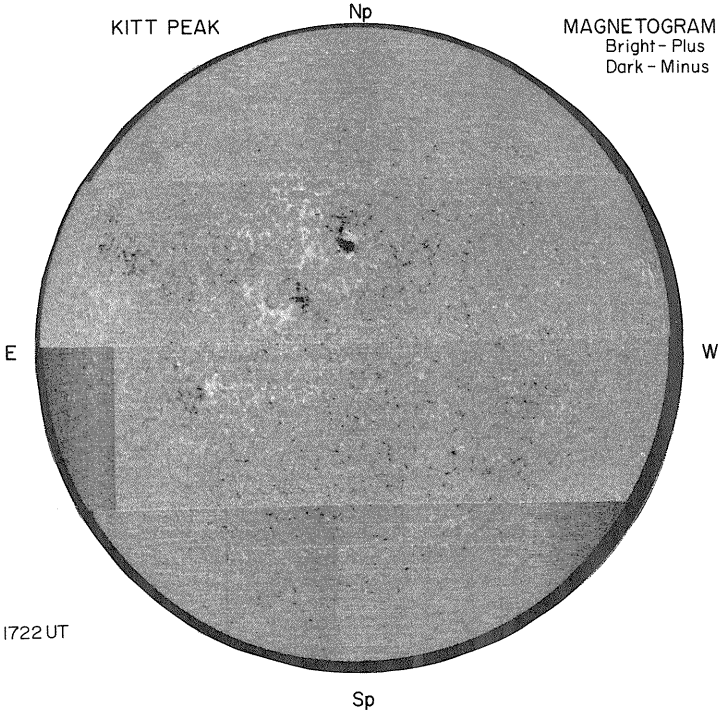


1545 UT

CALCIUM REPORT

GOOD	M
22 - 1000	- 2.5
23 - 1400	- 2.5

KITT PEAK

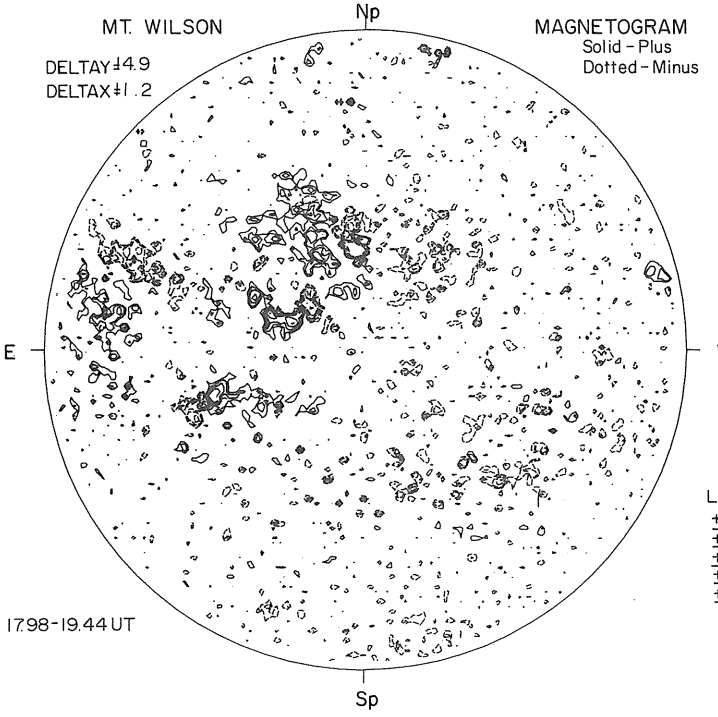


MAGNETOGRAM
Bright - Plus
Dark - Minus

1722 UT

MT. WILSON

DELTAY±4.9
DELTAX±1.2

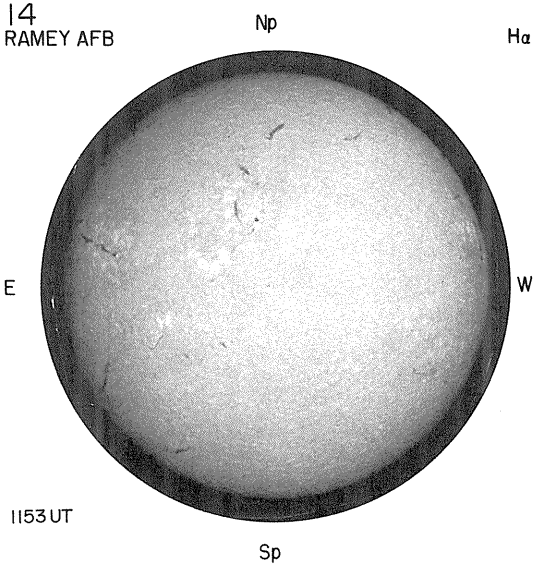


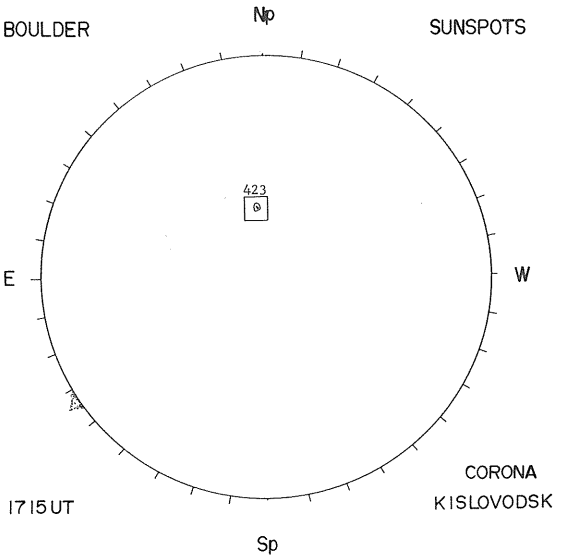
MAGNETOGRAM
Solid - Plus
Dotted - Minus

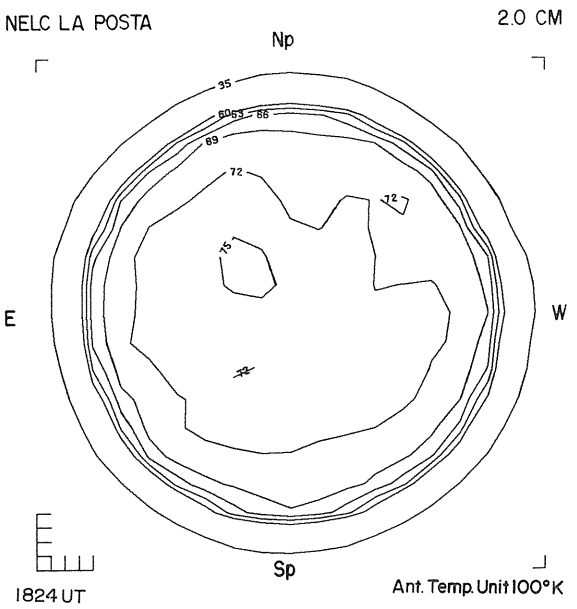
Levels
± 5
± 10
± 20
± 40
± 80

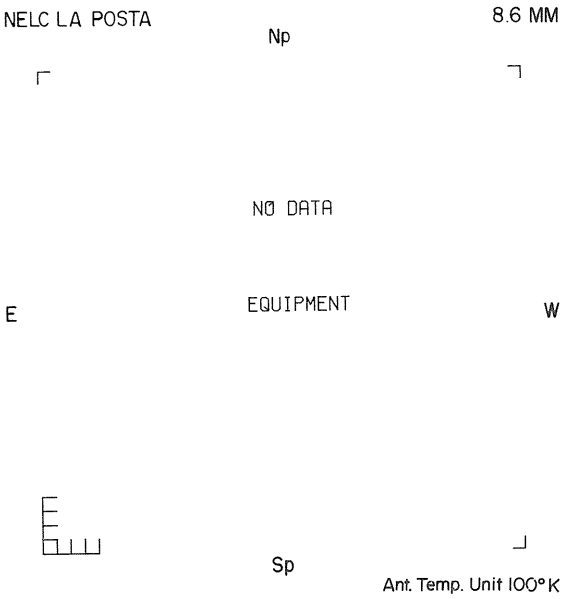
1798-1944 UT

14
RAMEY AFB


Np
Hα
E
W
1153 UT
Sp


BOULDER
Np
SUNSPOTS
423
E
W
CORONA
KISLOVODSK
1715 UT
Sp


NELC LA POSTA
Np
2.0 CM
35
60
63
66
69
72
72
75
72
E
W
Sp
1824 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
NO DATA
EQUIPMENT
E
W
Sp
Ant. Temp. Unit 100°K

JANUARY 15, 1975 (P=-4.42, B_o=-4.53, L_o = 101.82)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

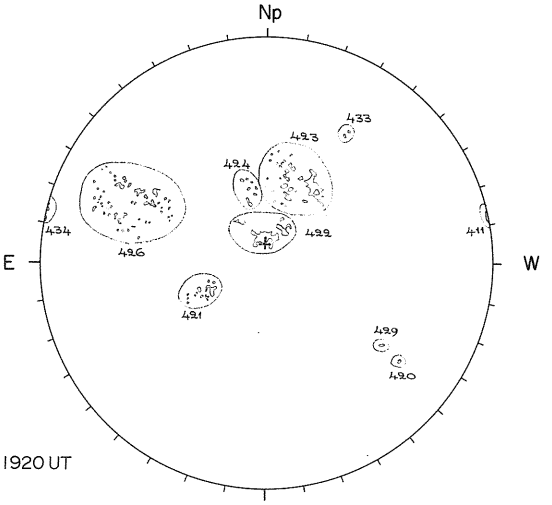
Np

E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

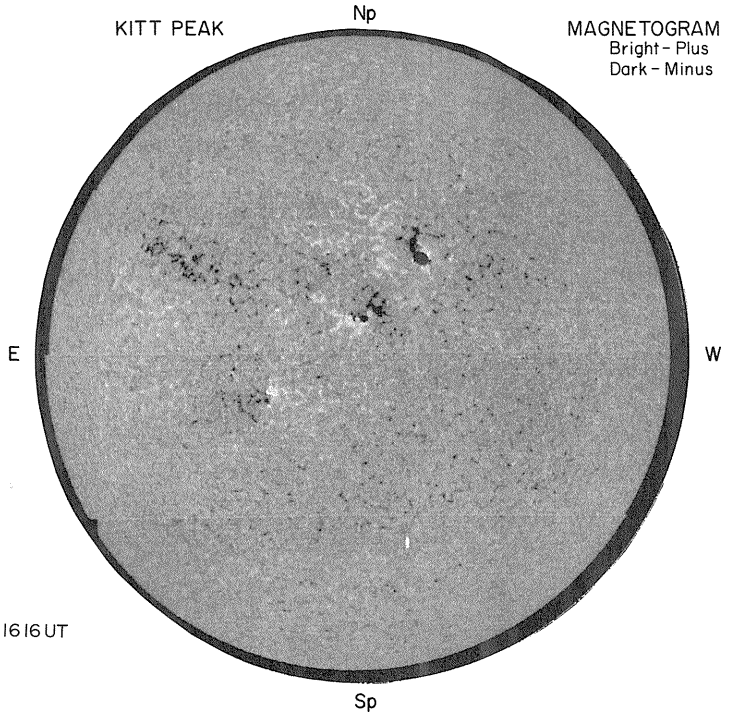


1920 UT

CALCIUM REPORT

GOOD	M
22 - 1100	- 3.0
23 - 1300	- 3.0
26 - 1000	- 2.5

KITT PEAK

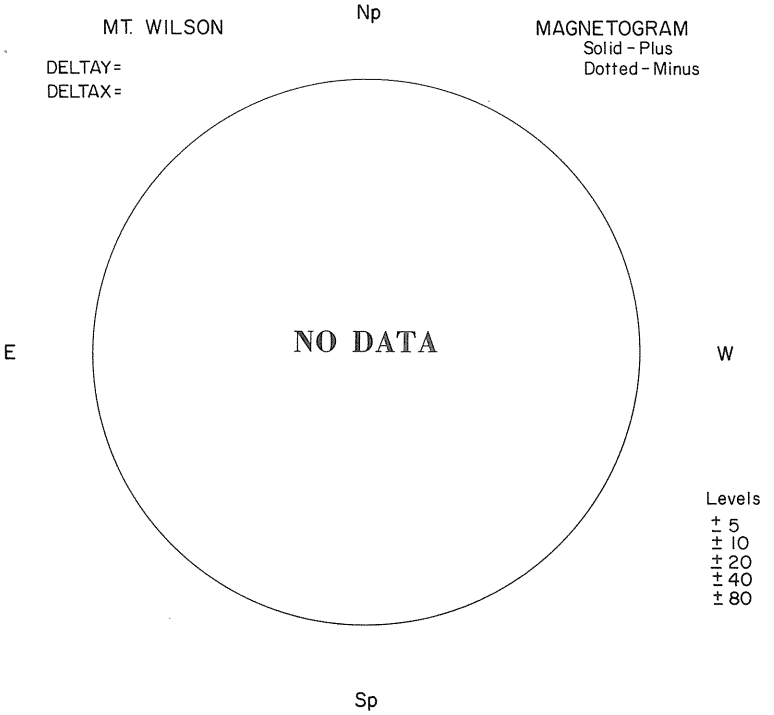


1616 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY=
DELTAX=

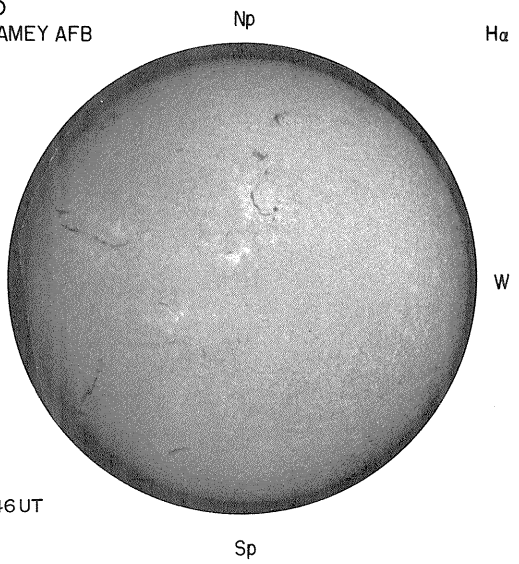


MAGNETOGRAM
Solid - Plus
Dotted - Minus

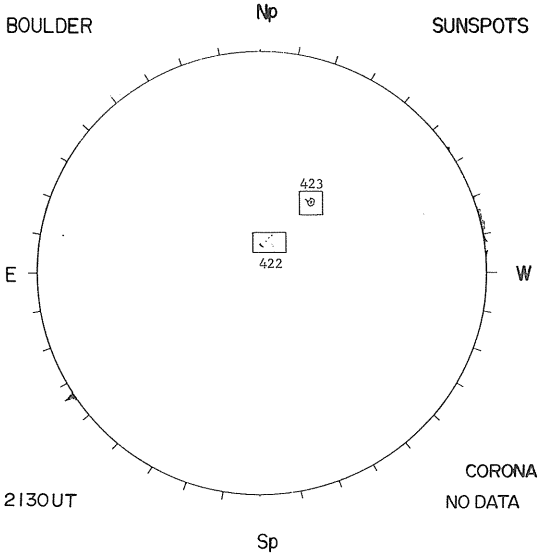
Levels
± 5
± 10
± 20
± 40
± 80

15

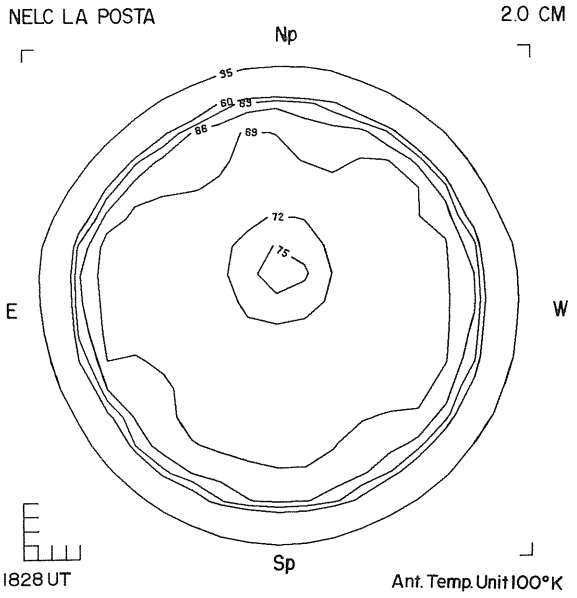
RAMEY AFB



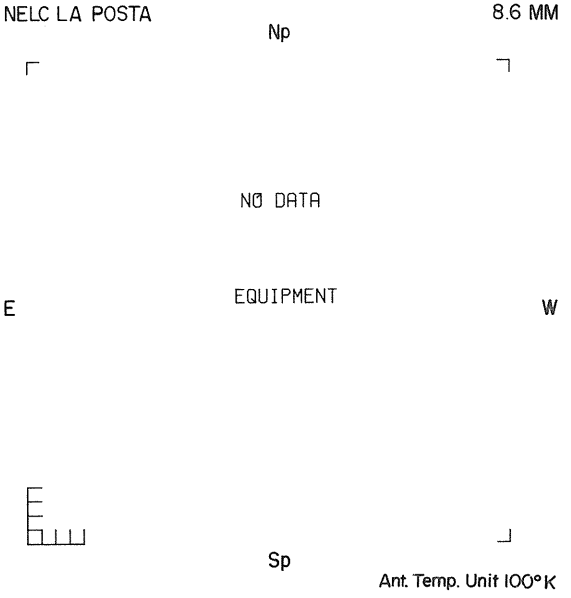
BOULDER



NELC LA POSTA



NELC LA POSTA



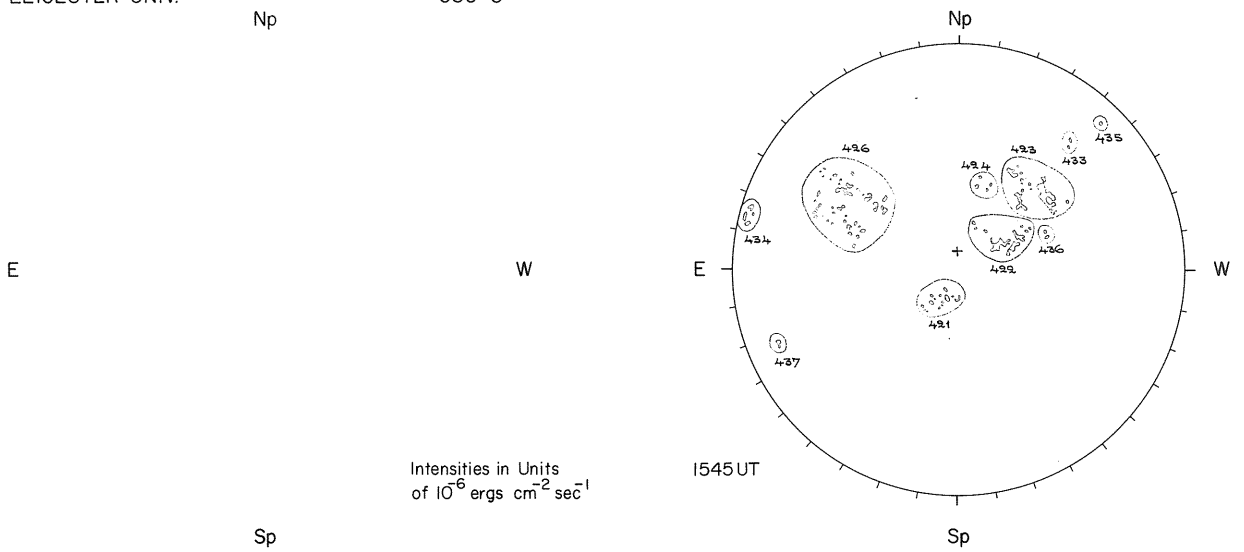
JANUARY 16, 1975 (P=-4.89, B_o=-4.63, L_o=88.65)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT



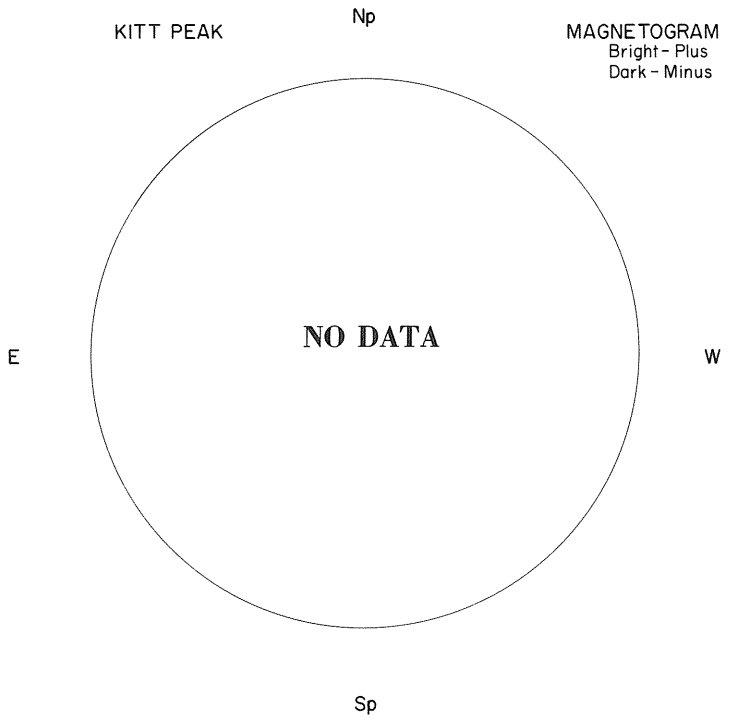
FAIR	M
22 - 0900 - 3.0	
23 - 1300 - 3.0	
36 - 0100 - 2.5	

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

1545 UT

KITT PEAK

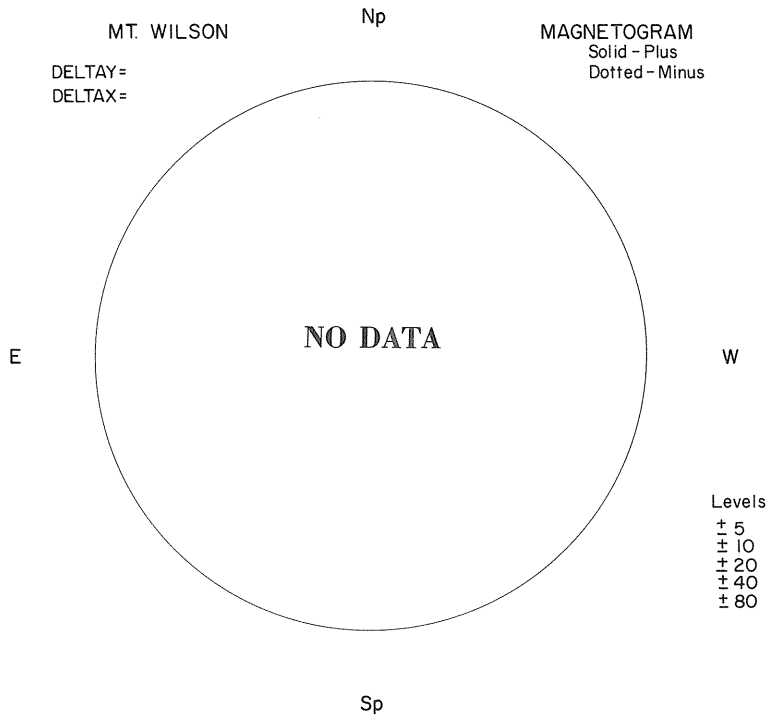
MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON

DELTAY=
DELTAX=

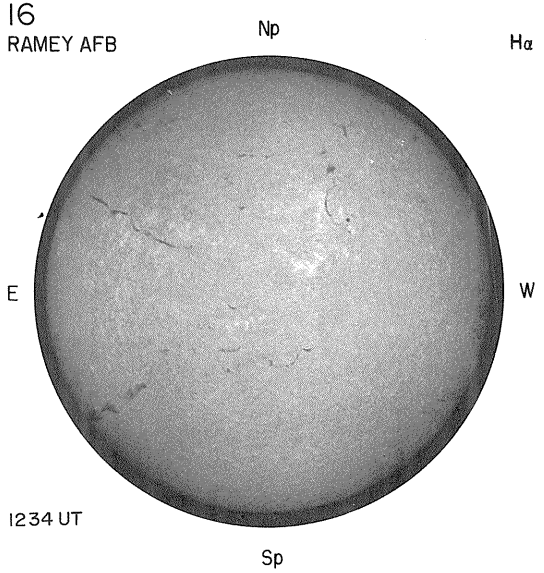
MAGNETOGRAM
Solid - Plus
Dotted - Minus



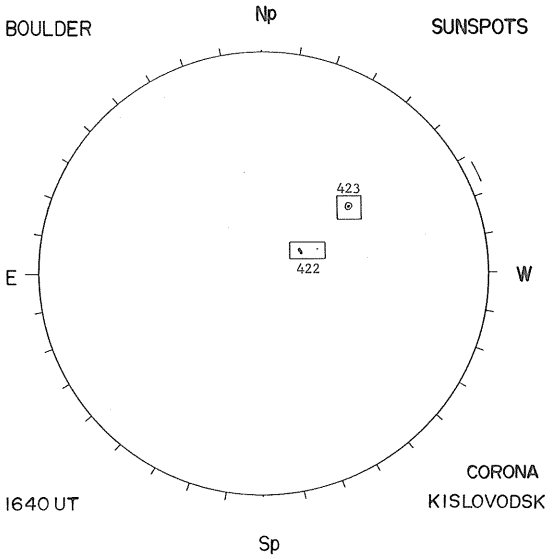
Levels
± 5
± 10
± 20
± 40
± 80

16

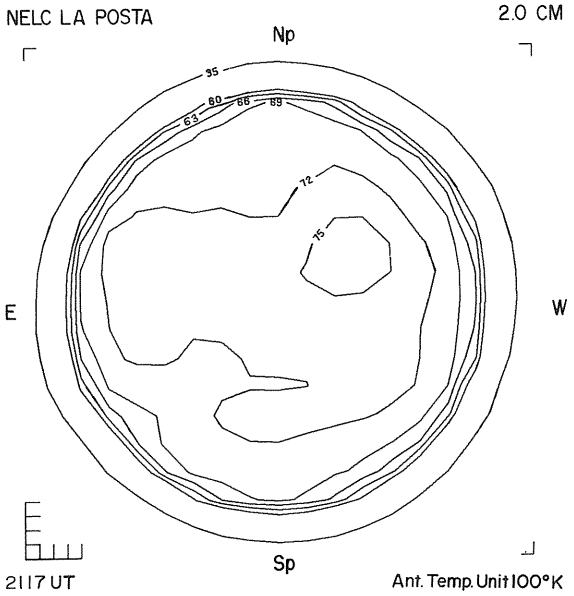
RAMEY AFB



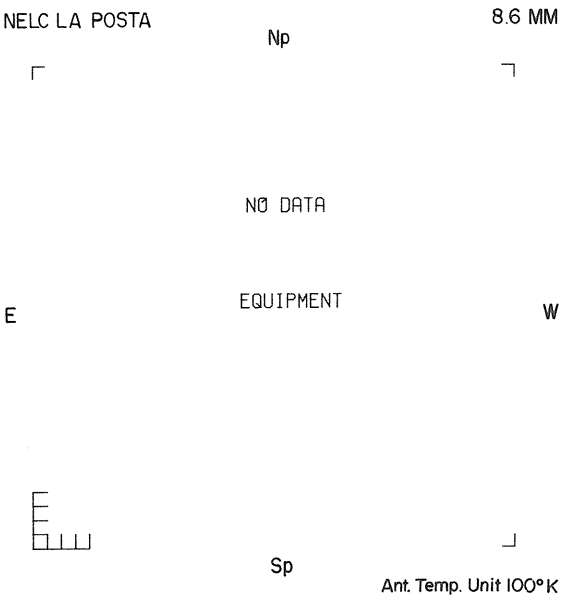
BOULDER



NELC LA POSTA



NELC LA POSTA



55
Jan 75

JANUARY 17, 1975 (P=-5.35, B_o=-4.73, L_o=75.48)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

Np

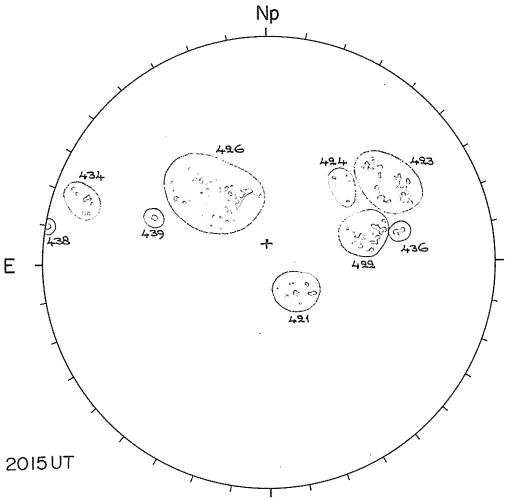
E W

Sp

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

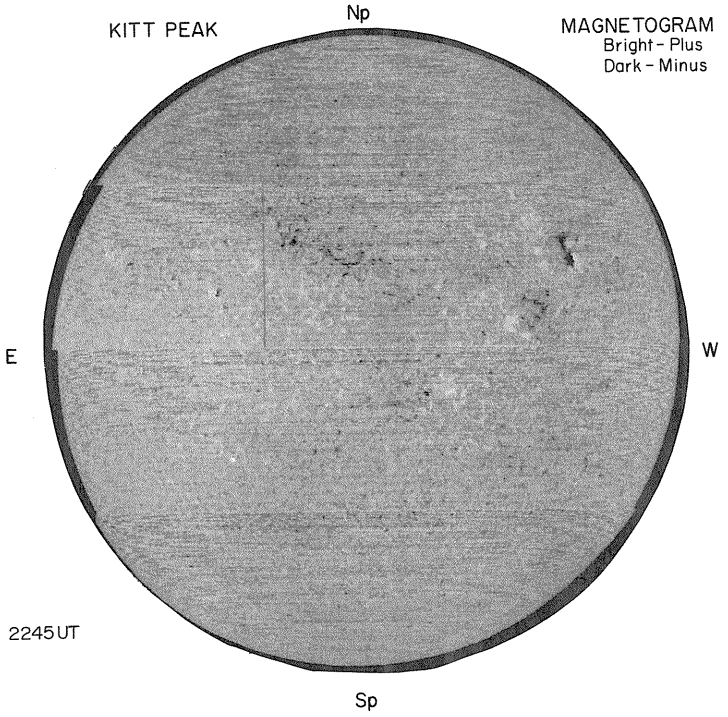


2015 UT

CALCIUM REPORT

GOOD	M
22 - 0900	-2.5
23 - 1100	-2.5

KITT PEAK

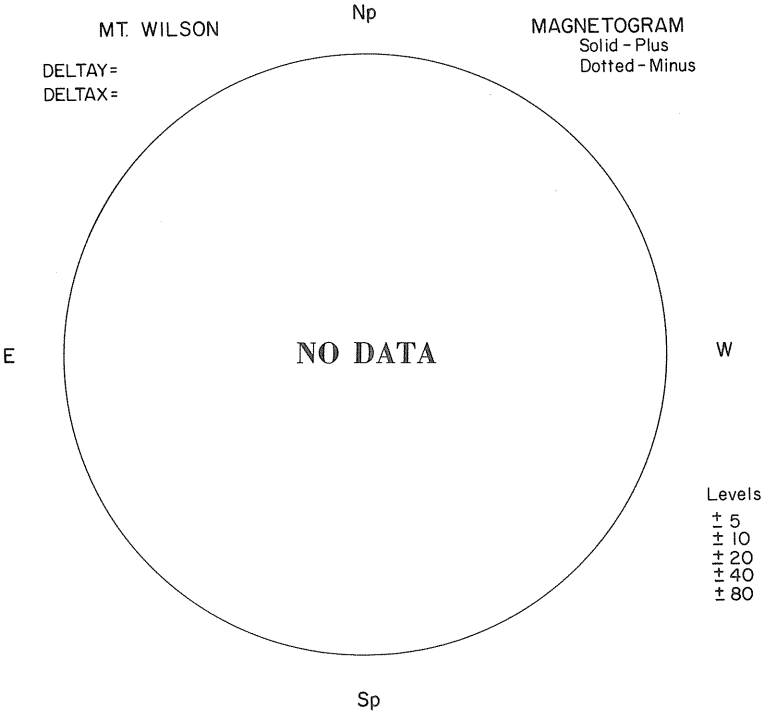


2245 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY=
DELTAX=

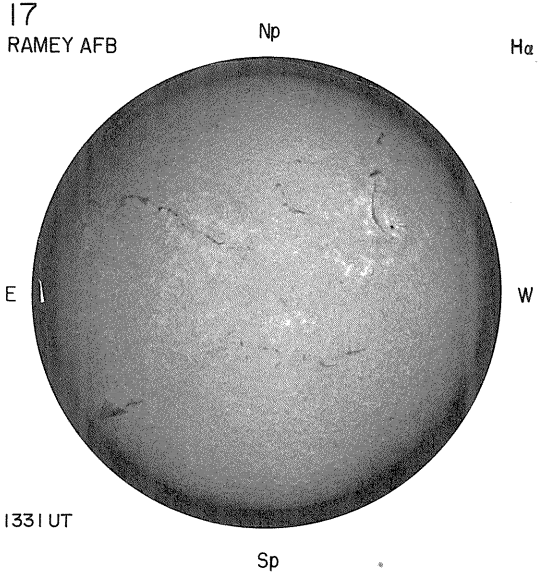


MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

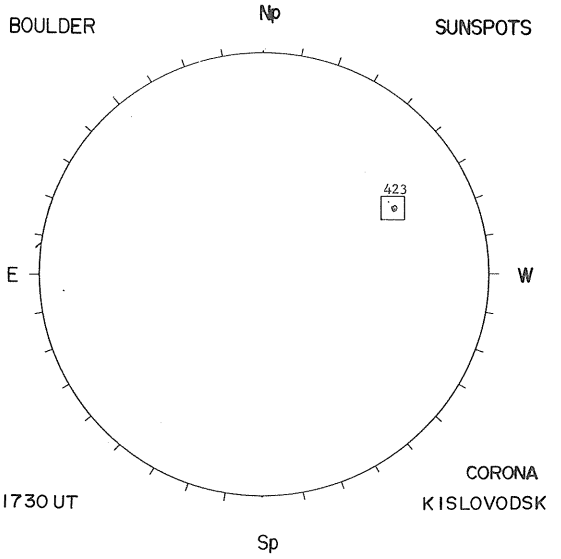
17

RAMEY AFB



1331 UT

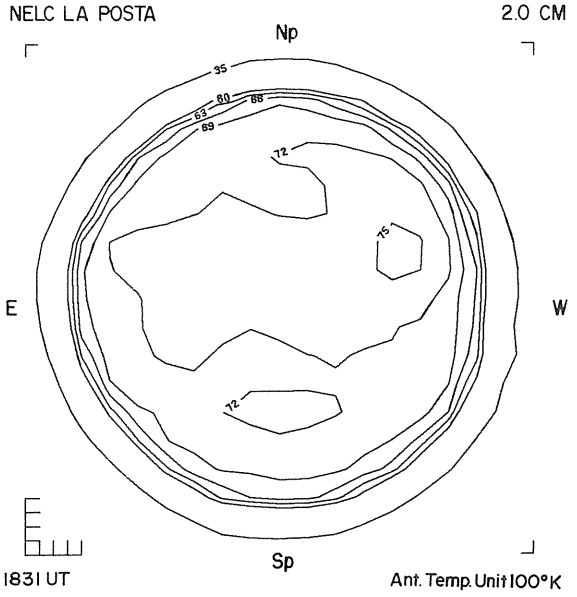
BOULDER



CORONA
KISLOVODSK

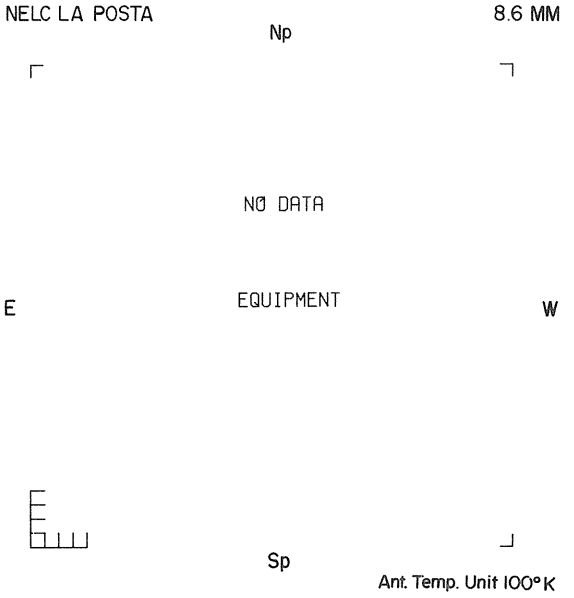
1730 UT

NELC LA POSTA



1831 UT

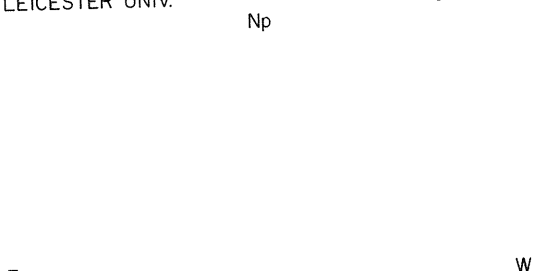
NELC LA POSTA



JANUARY 18, 1975 (P=-5.82, B_o=-4.83, L_o=62.32)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

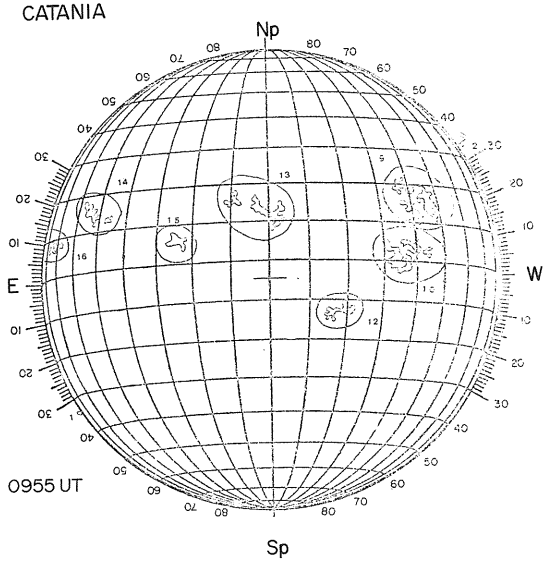
X-RAY
OSO-5



Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

CATANIA

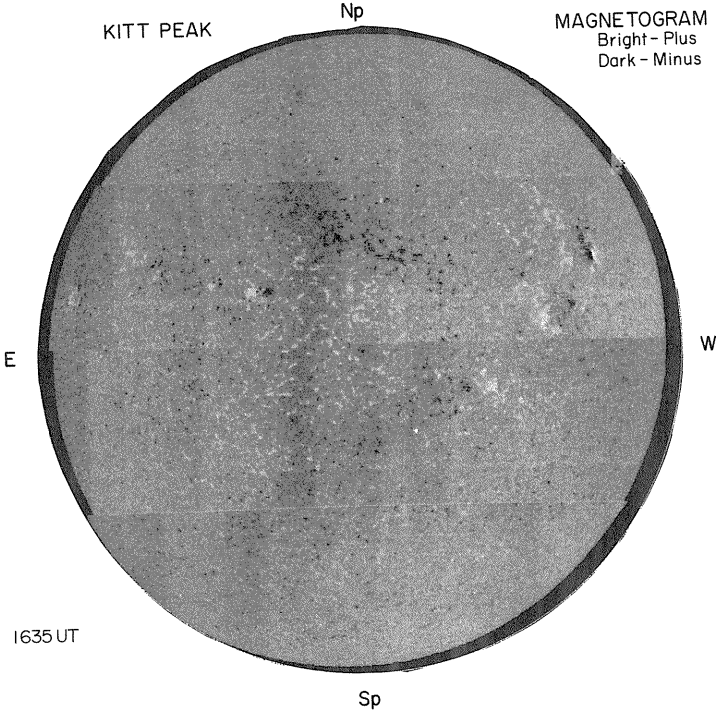
CALCIUM REPORT



GOOD	SS
09 - 2111	---
10 - 1693	---

KITT PEAK

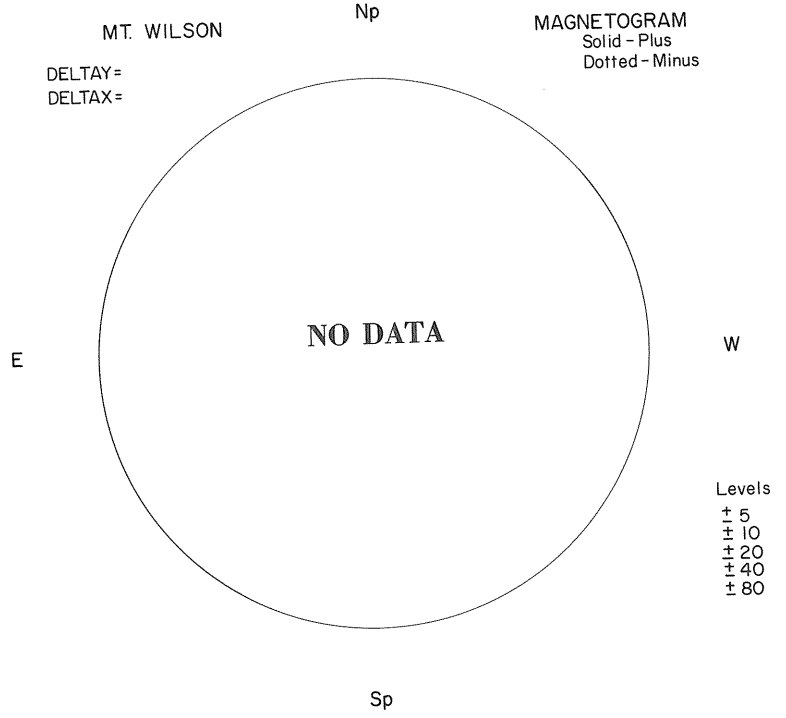
MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON

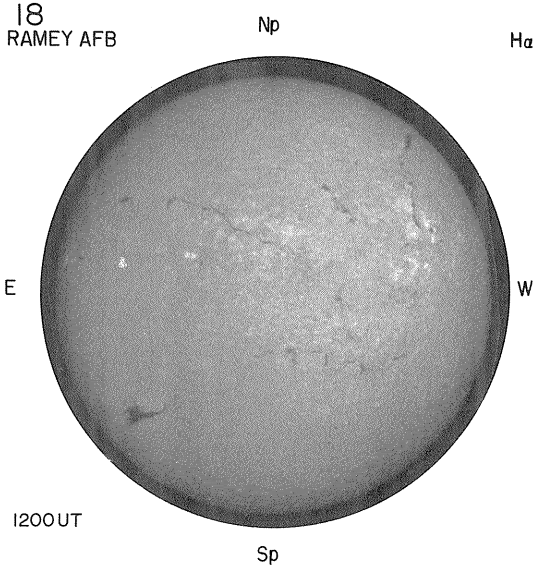
DELTAY=
DELTAX=

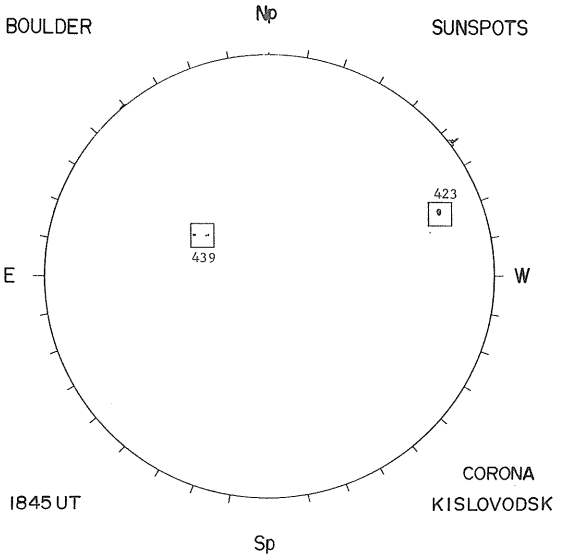
MAGNETOGRAM
Solid - Plus
Dotted - Minus

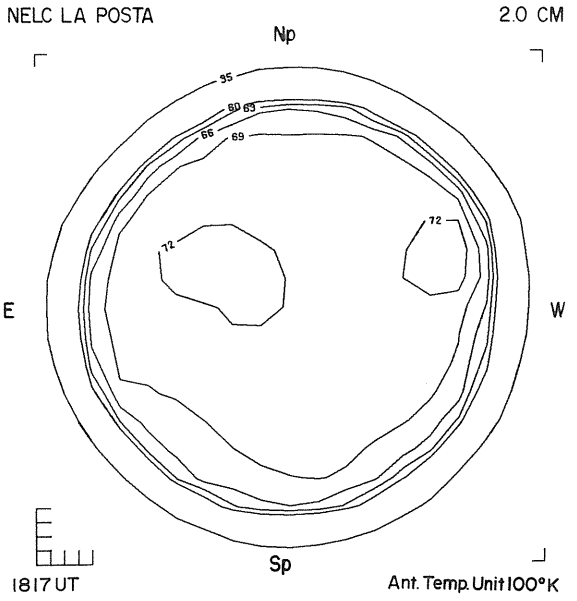


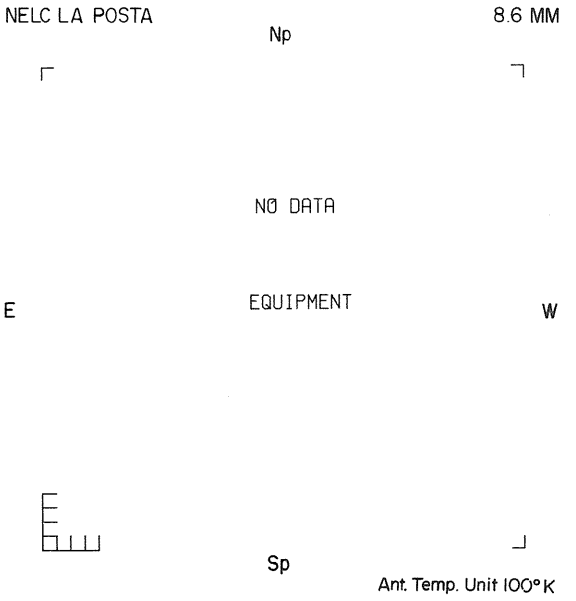
Levels
± 5
± 10
± 20
± 40
± 80

18
RAMEY AFB


Np
Hα
E
W
1200 UT
Sp


BOULDER
Np
SUNSPOTS
423
439
E
W
CORONA
KISLOVODSK
1845 UT
Sp


NELC LA POSTA
Np
2.0 CM
35
60
63
66
69
72
72
E
W
Sp
1817 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
NO DATA
EQUIPMENT
E
W
Sp
Ant. Temp. Unit 100°K

JANUARY 19, 1975 (P=-6.28, B_o=-4.92, L_o=49.15)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

E

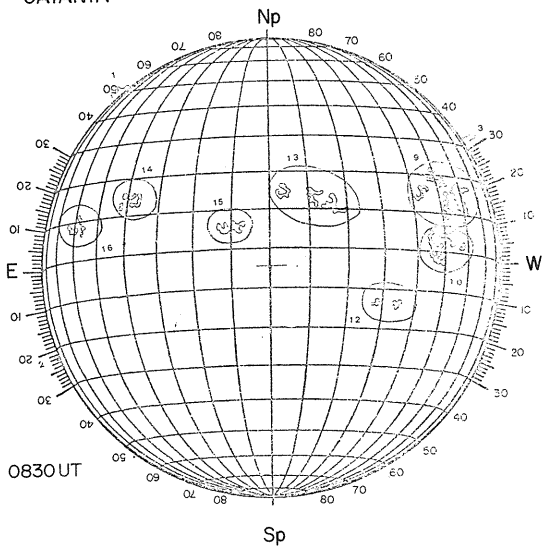
W

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

Sp

CATANIA

CALCIUM REPORT



FAIR	EC
09 - 2605	---
10 - 1306	---
13 - 0908	---
15 - 0439	---

KITT PEAK

Np

MAGNETOGRAM
Bright - Plus
Dark - Minus

E

NO DATA

W

Sp

MT. WILSON

DELTAY= 14.9
DELTAX= 11.2

Np

MAGNETOGRAM
Solid - Plus
Dotted - Minus

E

W

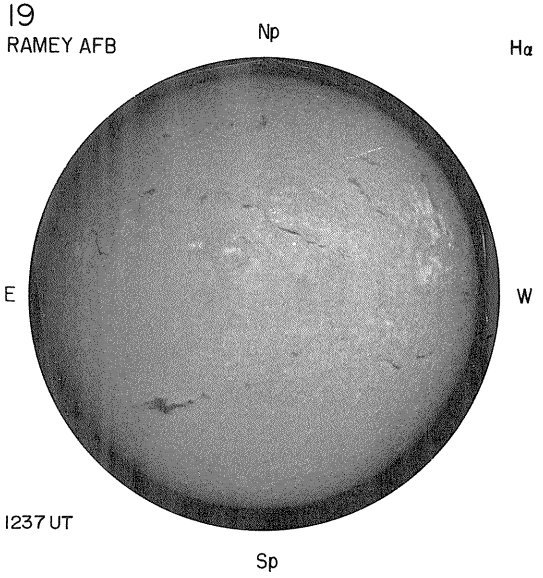
Levels
± 5
± 10
± 20
± 40
± 80

16.84-18.09 UT

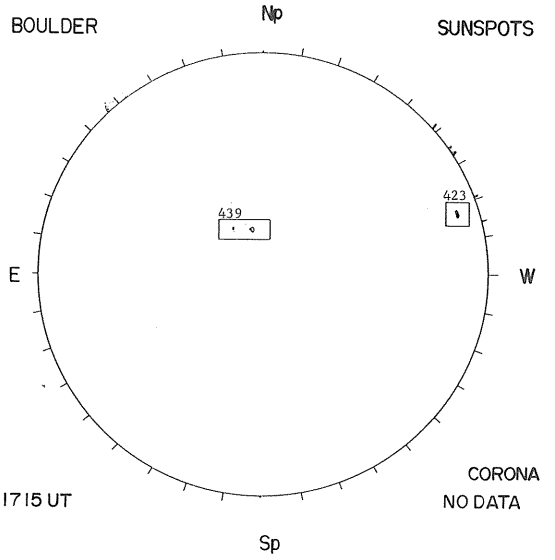
Sp

19

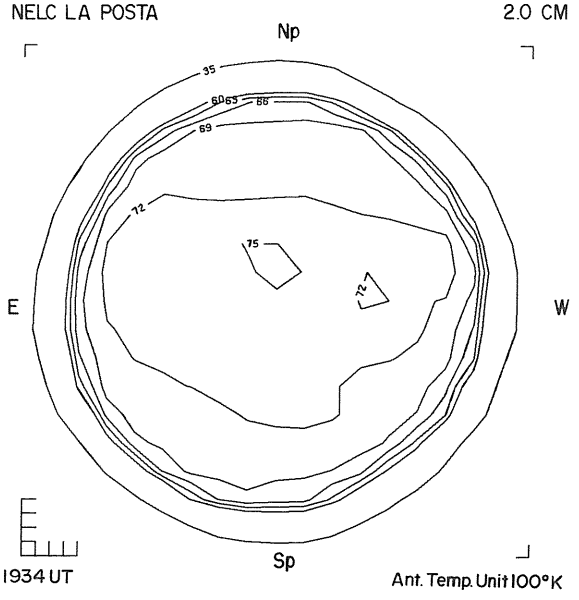
RAMEY AFB



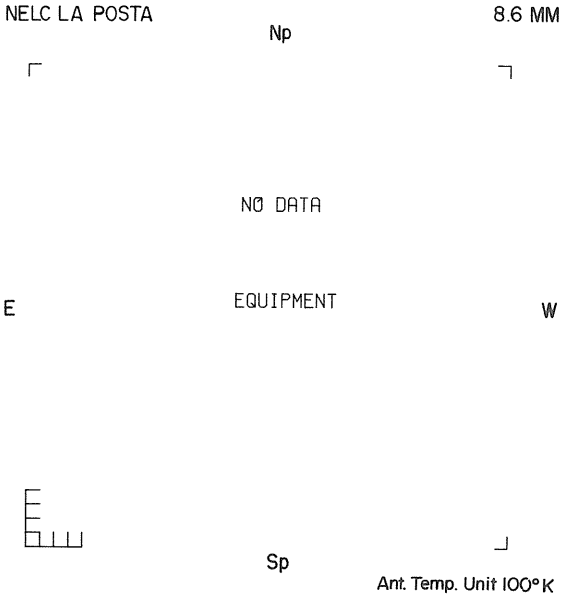
BOULDER



NELC LA POSTA



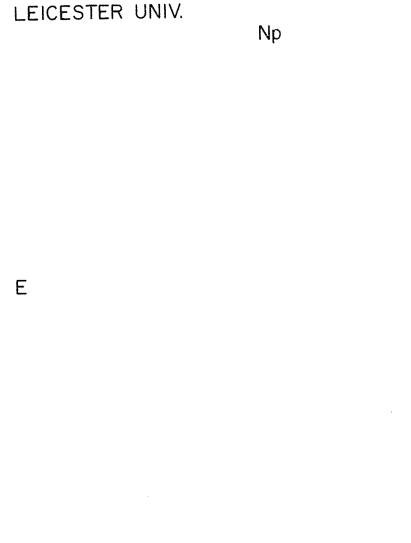
NELC LA POSTA



JANUARY 20, 1975 (P=-6.74, B_o=-5.02, L_o=35.98)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

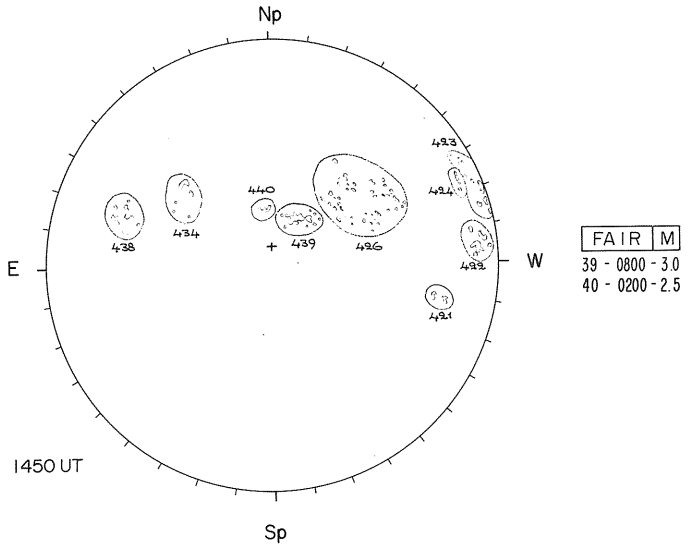
X-RAY
OSO-5



Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT



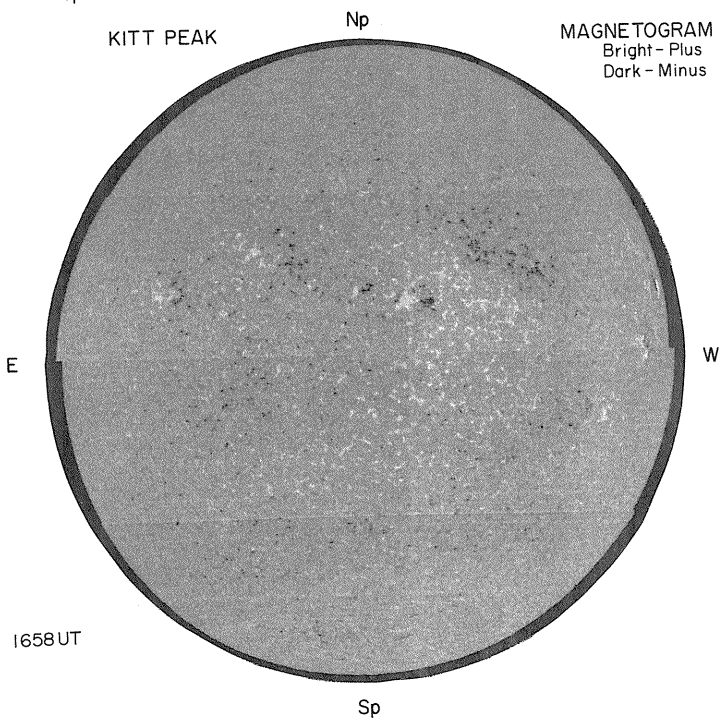
1450 UT

FAIR	M

39 - 0800 - 3.0
40 - 0200 - 2.5

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

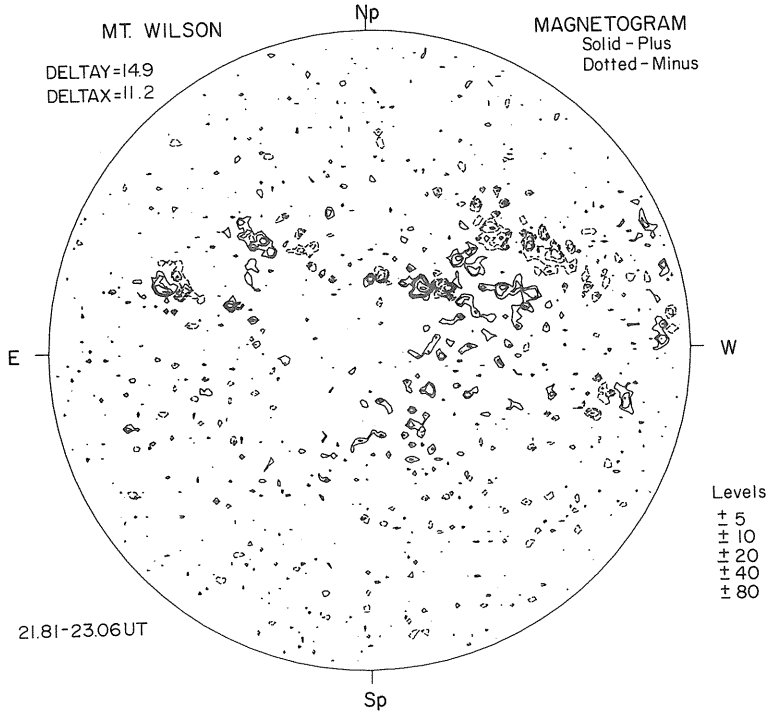


1658 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.2

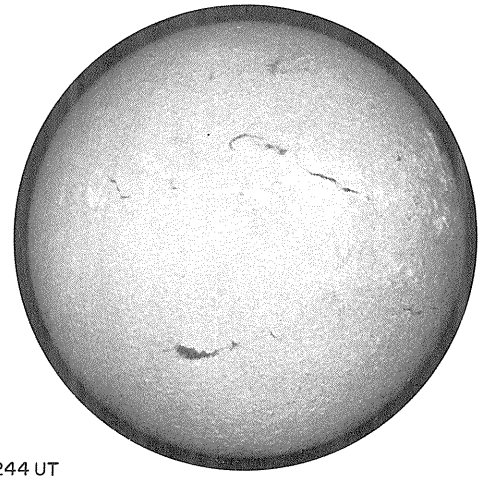
MAGNETOGRAM
Solid - Plus
Dotted - Minus



Levels
± 5
± 10
± 20
± 40
± 80

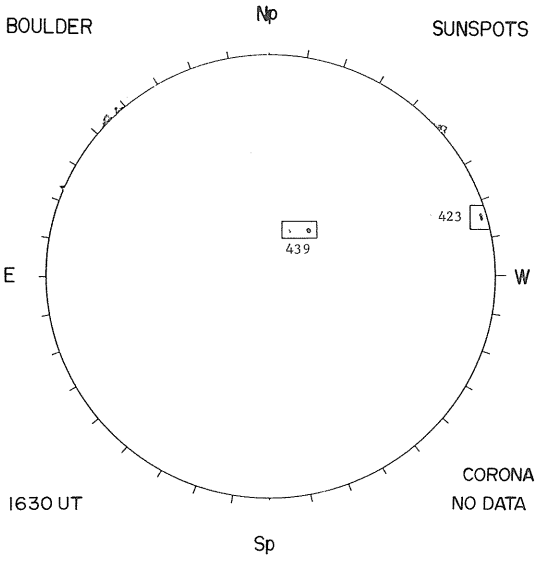
21.81-23.06 UT

20
RAMEY AFB



1244 UT

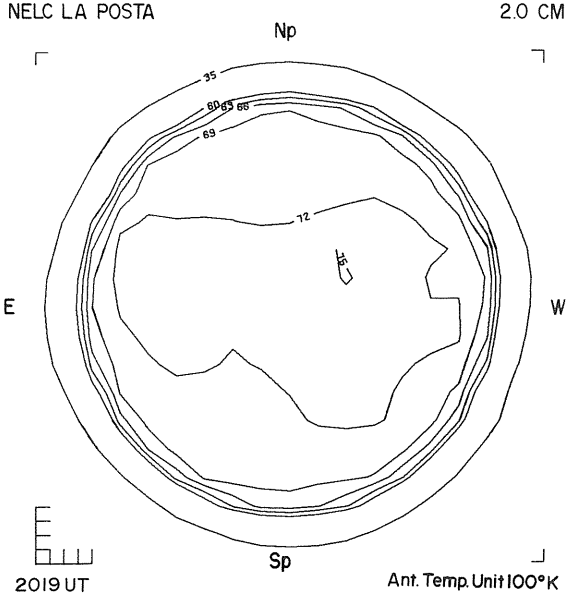
BOULDER



1630 UT

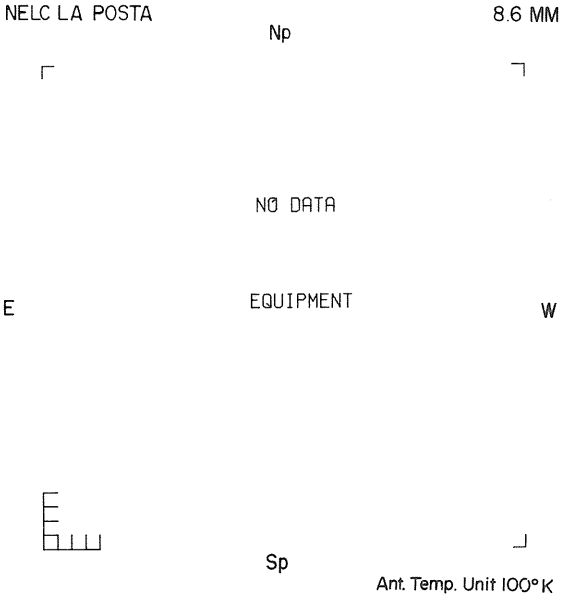
CORONA
NO DATA

NELC LA POSTA



2019 UT

NELC LA POSTA



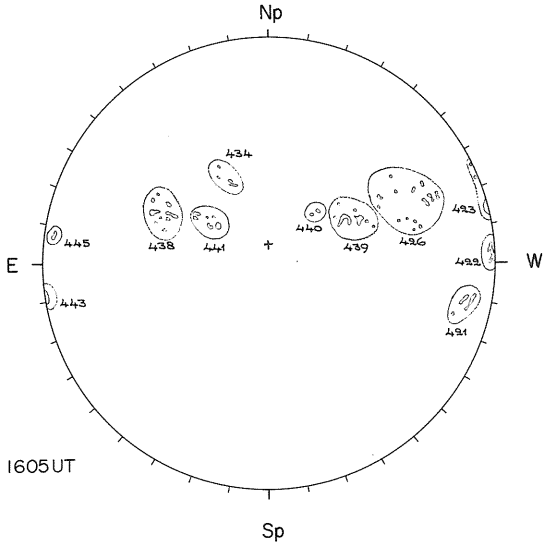
JANUARY 21, 1975 (P=-7.20, B_o=-5.11, L_o=22.82)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



1605 UT

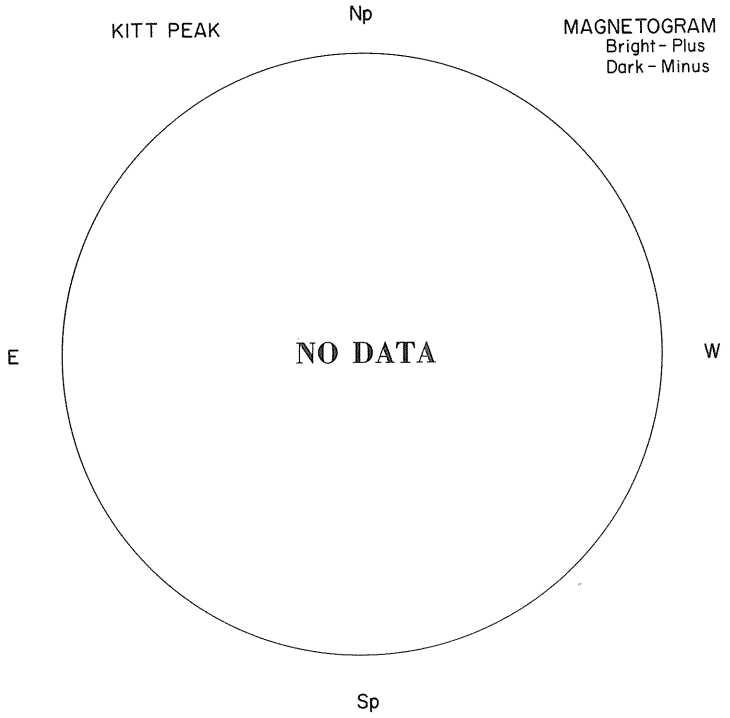
CALCIUM REPORT

FAIR	S

39 - 0700 - 3.0
40 - 0200 - 3.0
41 - 0500 - 3.0

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

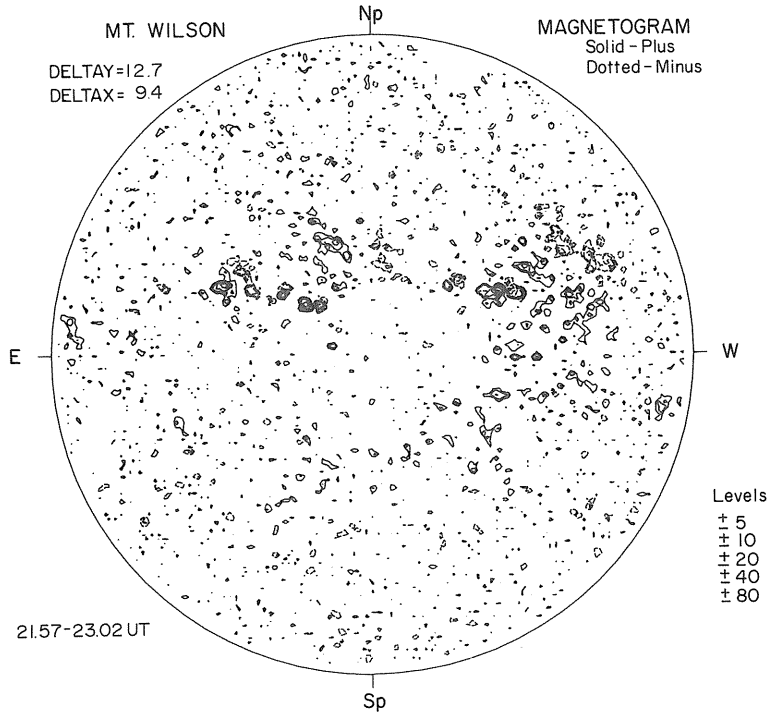


NO DATA

MT. WILSON

DELTAY=12.7
DELTAX= 9.4

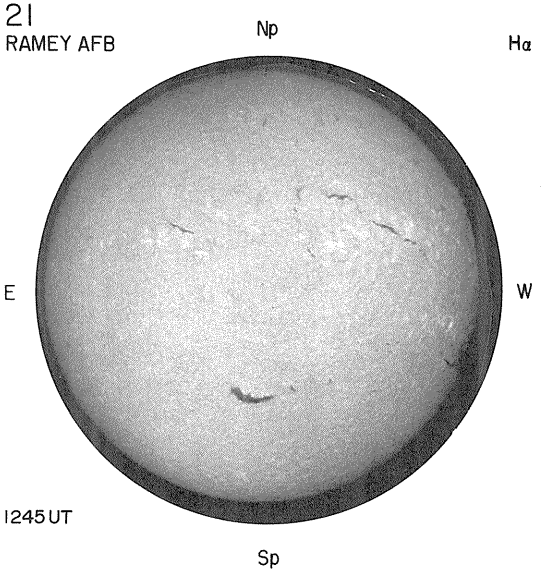
MAGNETOGRAM
Solid - Plus
Dotted - Minus

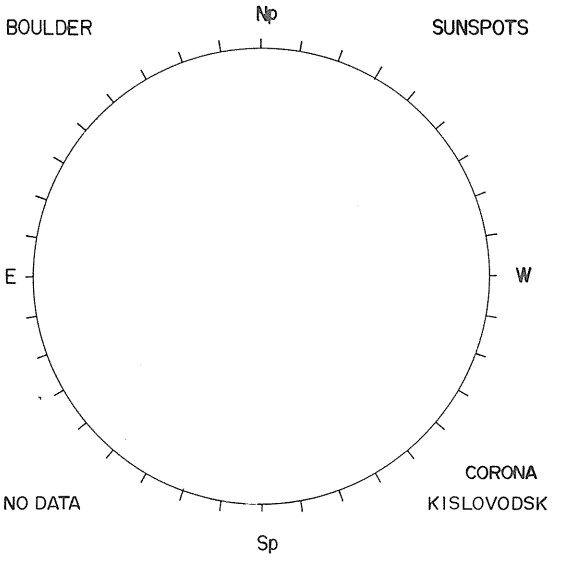


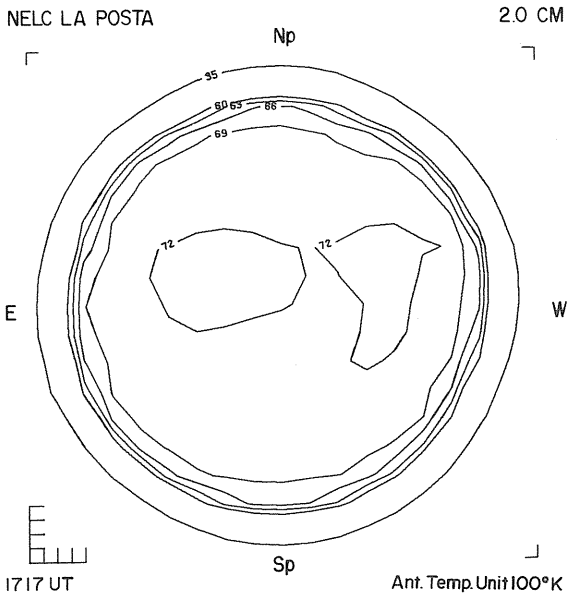
Levels
± 5
± 10
± 20
± 40
± 80

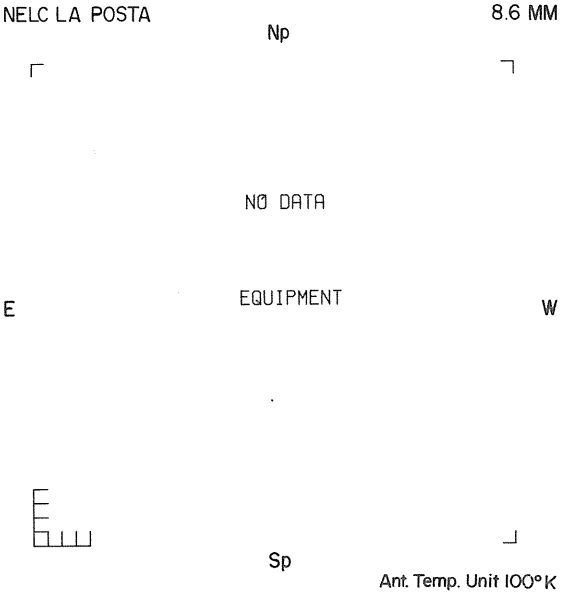
21.57-23.02 UT

21
RAMEY AFB


Np
Hα
E
W
1245 UT
Sp


BOULDER
Np
SUNSPOTS
E
W
CORONA
NO DATA
KISLOVODSK
Sp


NELC LA POSTA
Np
2.0 CM
95
60 63
66
69
72
72
E
W
Sp
1717 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
NO DATA
EQUIPMENT
E
W
Sp
Ant. Temp. Unit 100°K

JANUARY 22, 1975 (P=-7.65, B_o=-5.20, L_o=9.65)

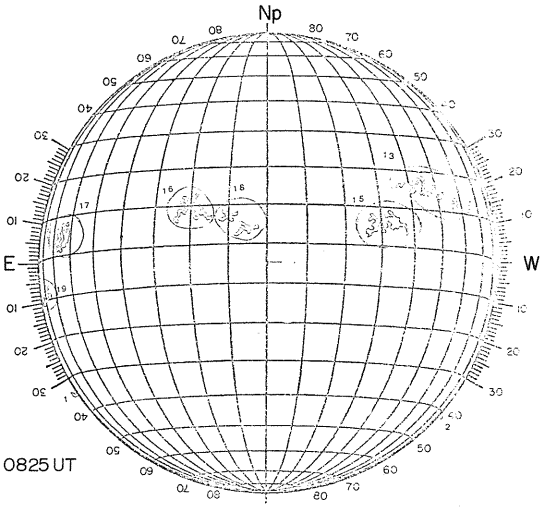
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E
W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

CATANIA

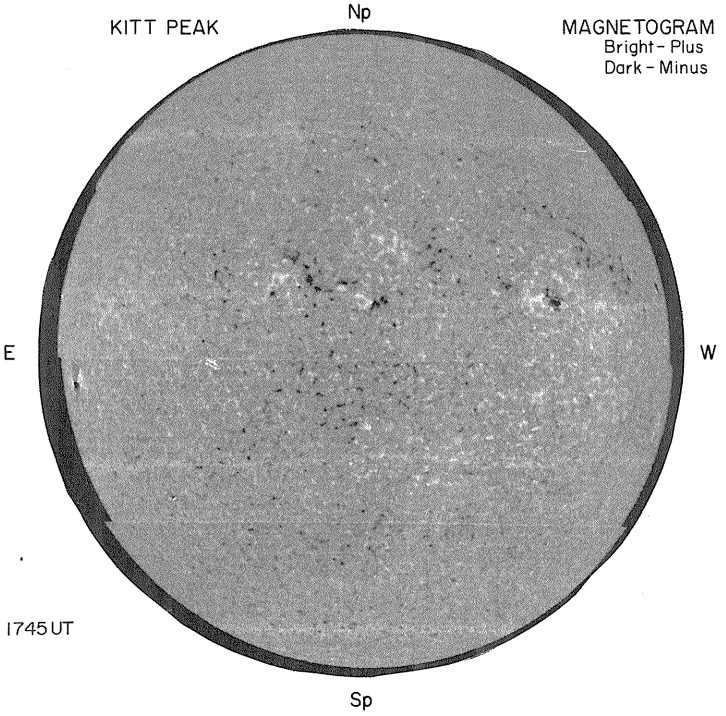


0825 UT

CALCIUM REPORT

FAIR	EC
13 - 1221	---
15 - 1281	---
18 - 0638	---
19 - 1375	---

KITT PEAK

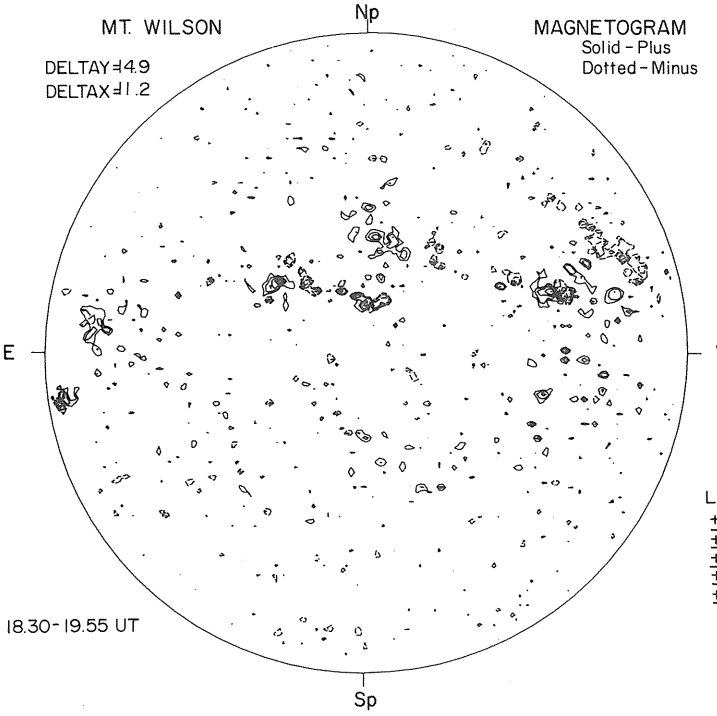


MAGNETOGRAM
Bright - Plus
Dark - Minus

1745 UT

MT. WILSON

DELTAY=4.9
DELTAX=1.2

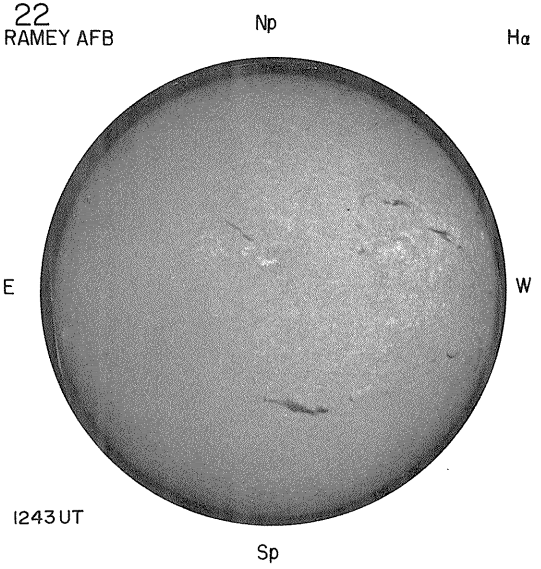


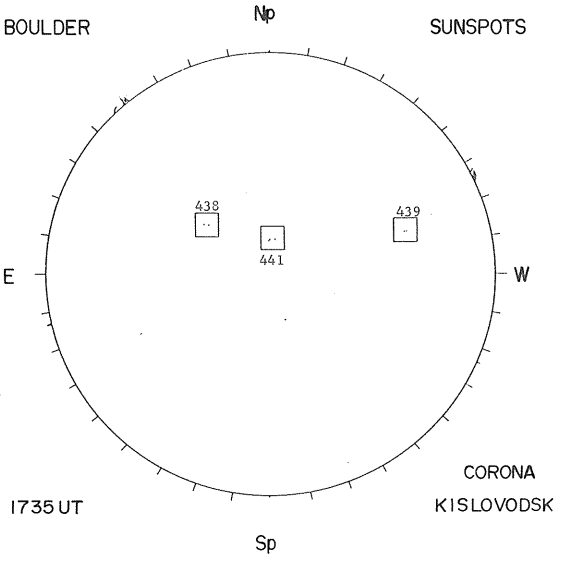
MAGNETOGRAM
Solid - Plus
Dotted - Minus

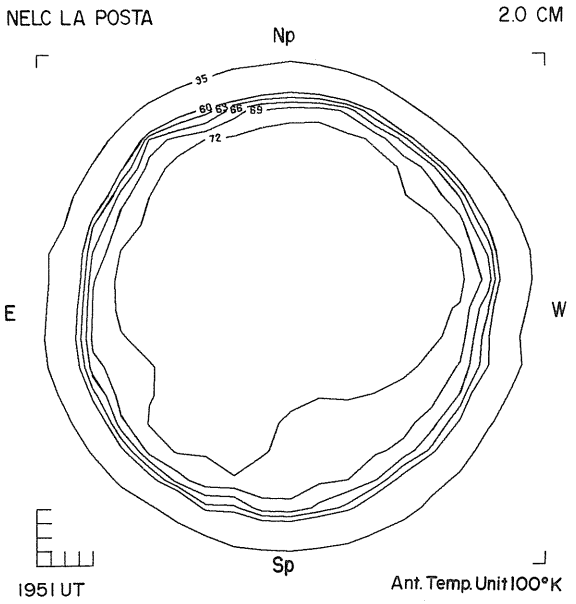
Levels
± 5
± 10
± 20
± 40
± 80

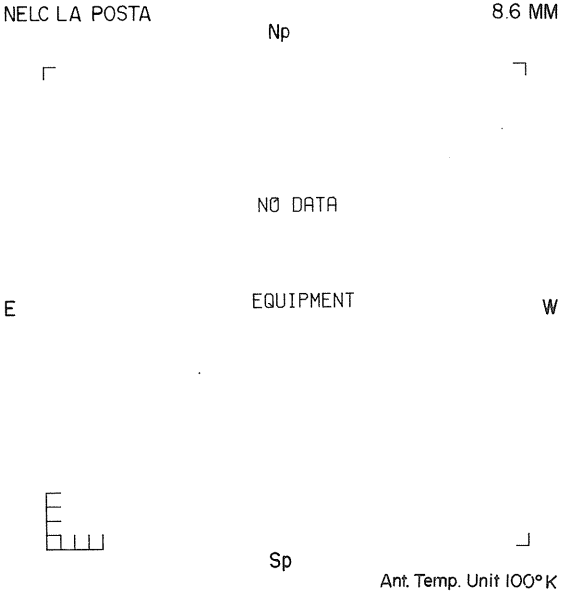
18.30 - 19.55 UT

22
RAMEY AFB


Np
Hα
E
W
1243 UT
Sp


BOULDER
Np
SUNSPOTS
438
441
439
E
W
CORONA
KISLOVODSK
1735 UT
Sp


NELC LA POSTA
Np
2.0 CM
95
69
65
66
69
72
E
W
1951 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
NO DATA
EQUIPMENT
E
W
Sp
Ant. Temp. Unit 100°K

JANUARY 23, 1975 (P=-8.10, B_o=-5.29, L_o=356.48)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

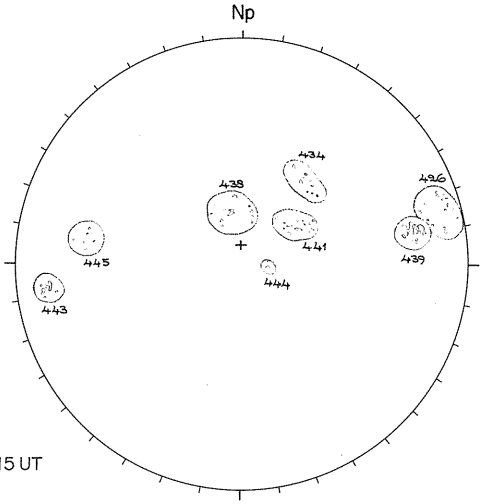
Np

E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



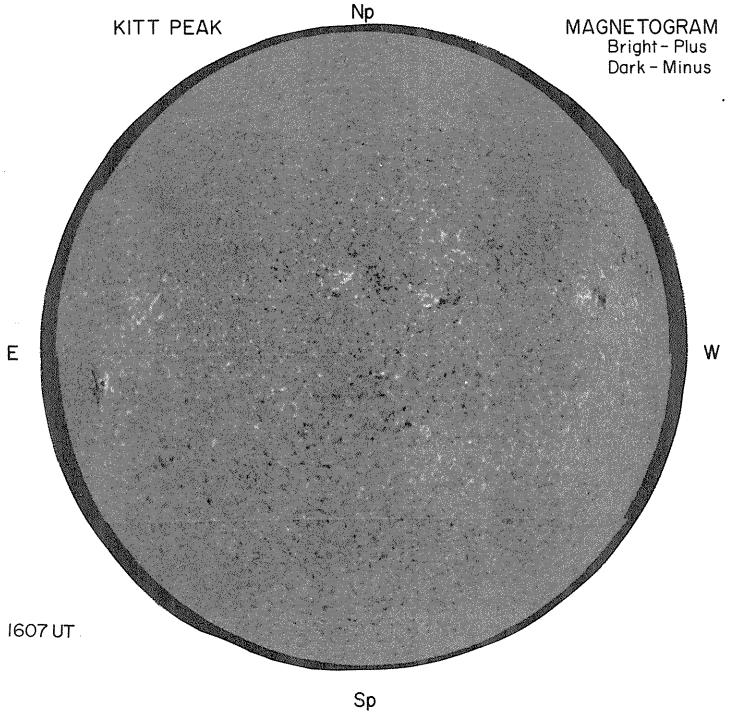
1715 UT

CALCIUM REPORT

GOOD	M
41 - 0400 - 2.5	
43 - 0600 - 2.5	

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

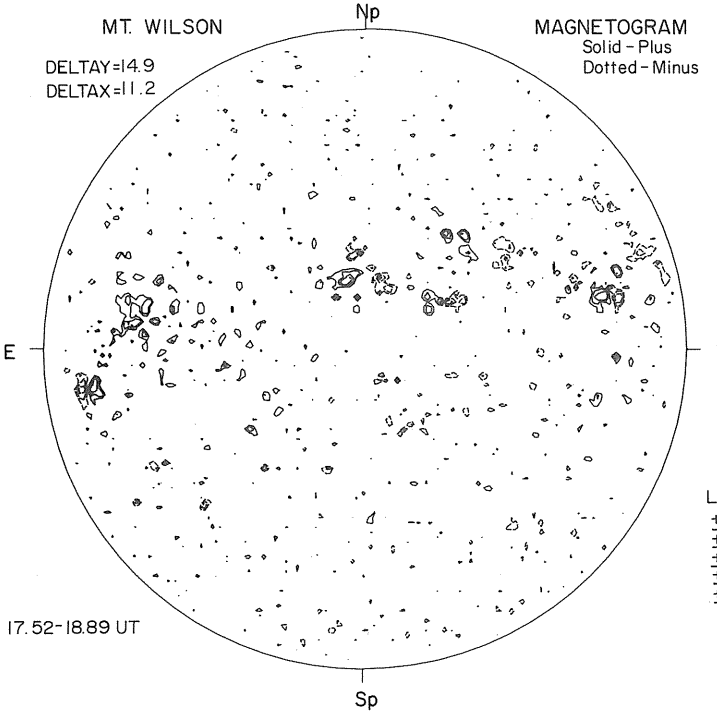


1607 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.2

MAGNETOGRAM
Solid - Plus
Dotted - Minus

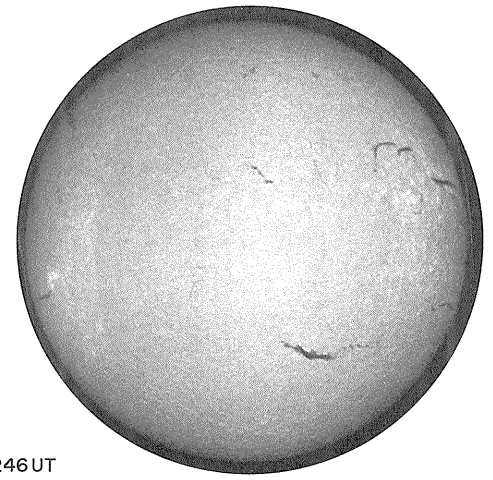


17.52-18.89 UT

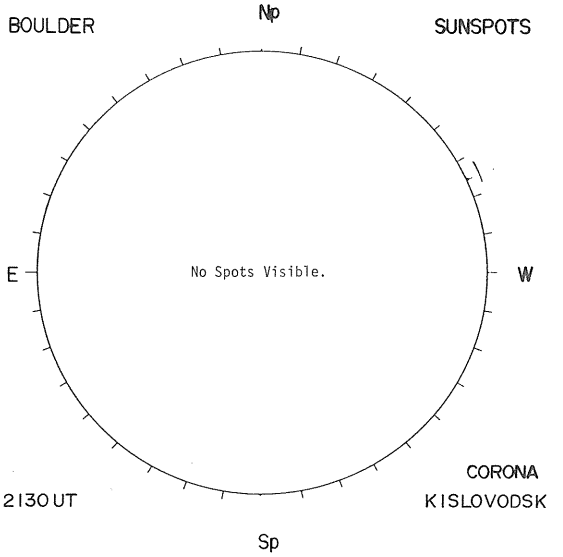
Levels
± 5
± 10
± 20
± 40
± 80

23

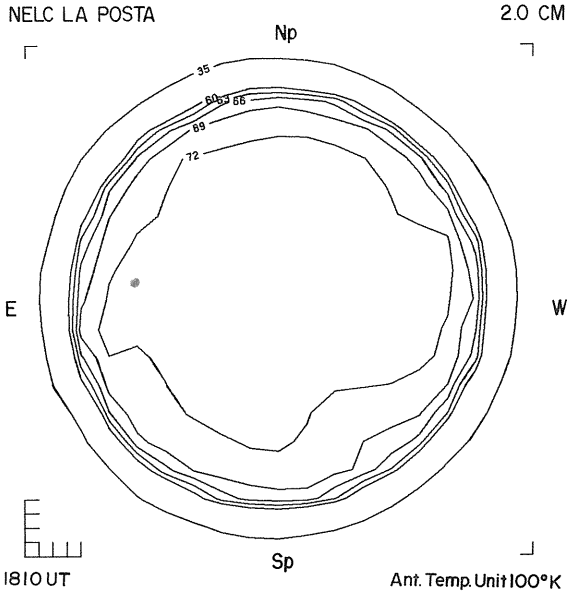
RAMEY AFB



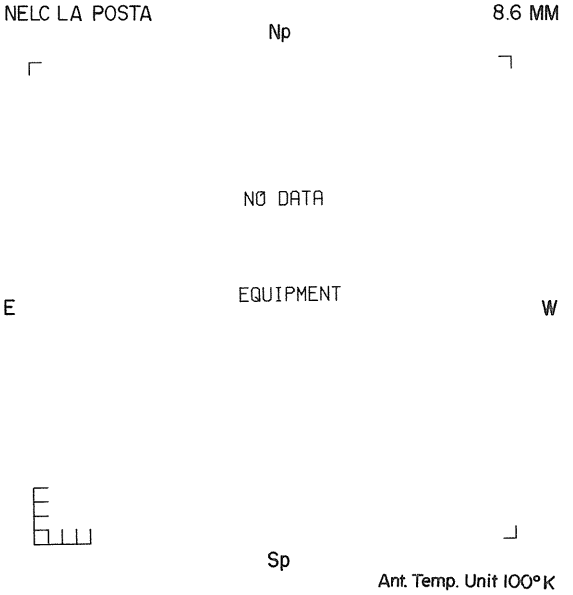
BOULDER



NELC LA POSTA



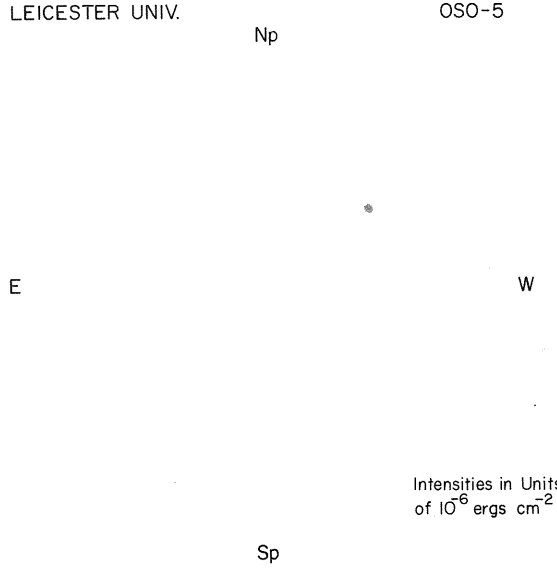
NELC LA POSTA



JANUARY 24, 1975 (P=-8.54, B_o=-5.38, L_o=343.31)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

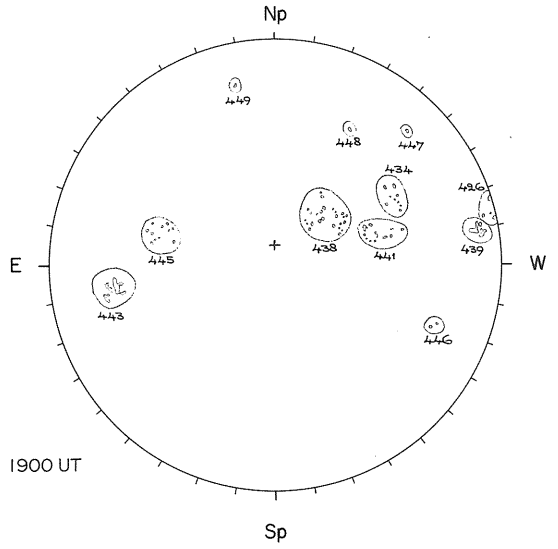
X-RAY
OSO-5



Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT



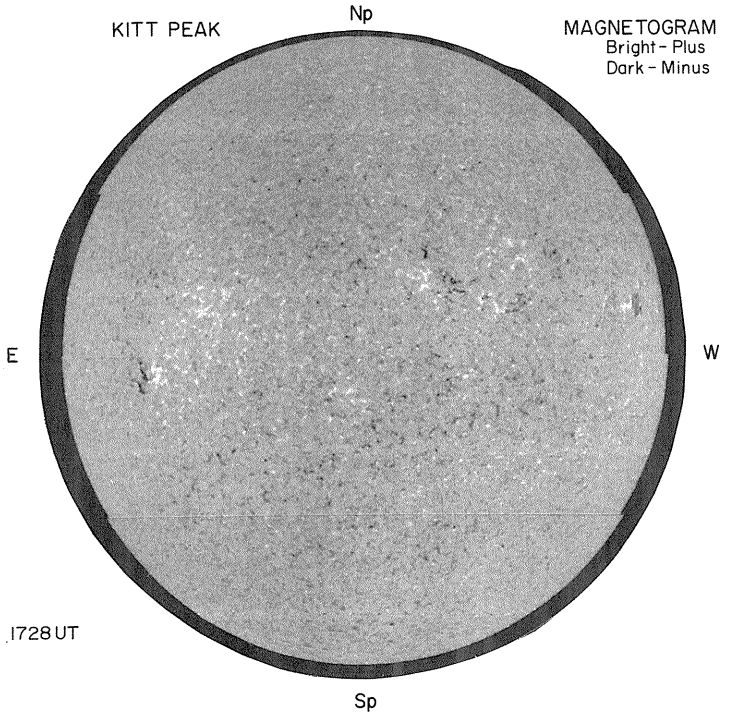
1900 UT

GOOD	M

43 - 0700 - 2.5

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

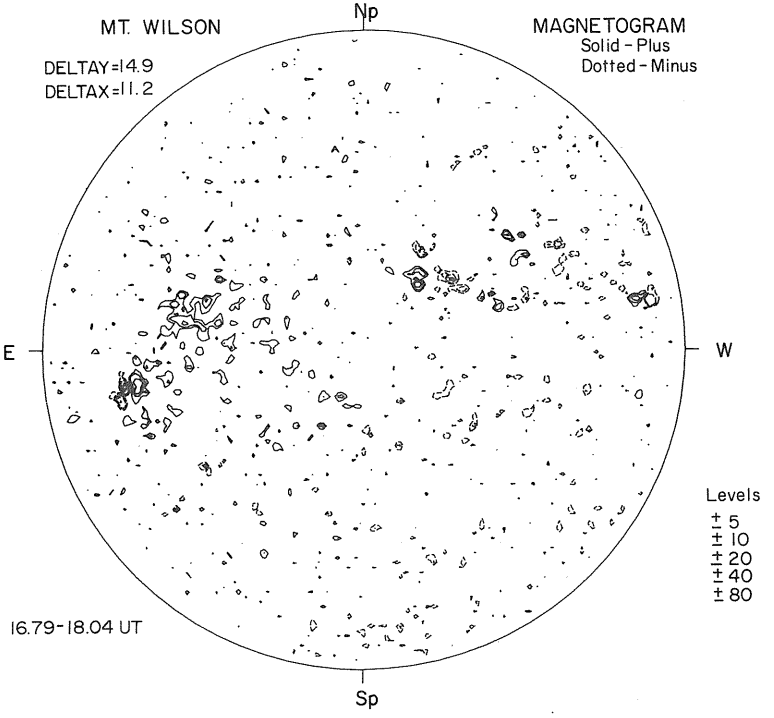


1728 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.2

MAGNETOGRAM
Solid - Plus
Dotted - Minus

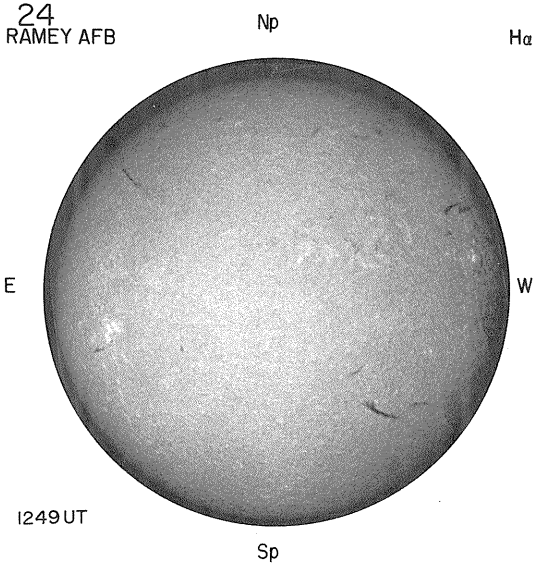


Levels
± 5
± 10
± 20
± 40
± 80

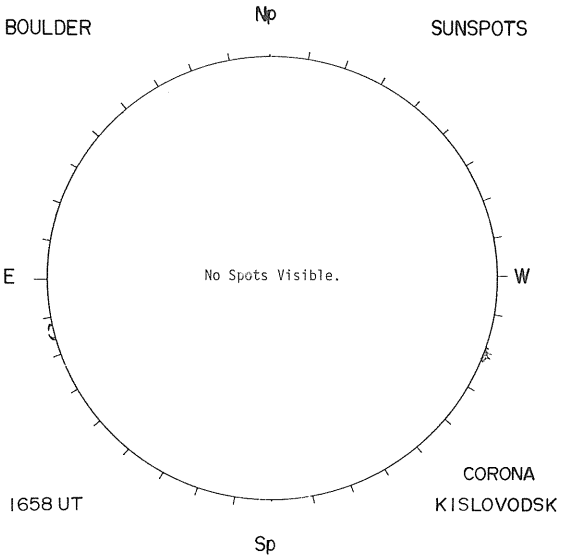
16.79-18.04 UT

24

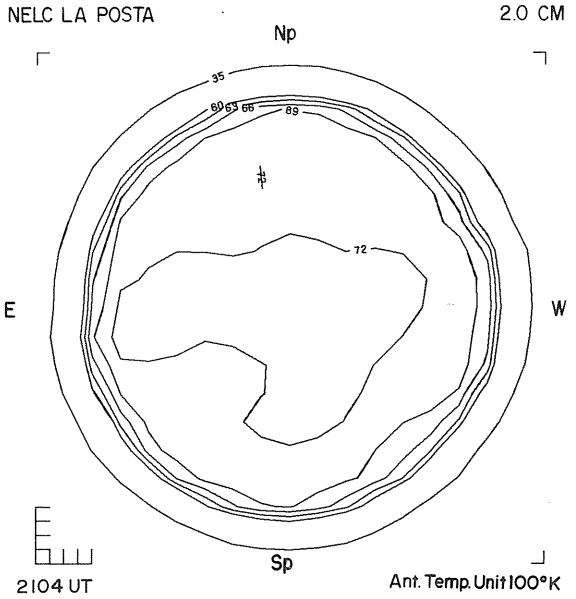
RAMEY AFB



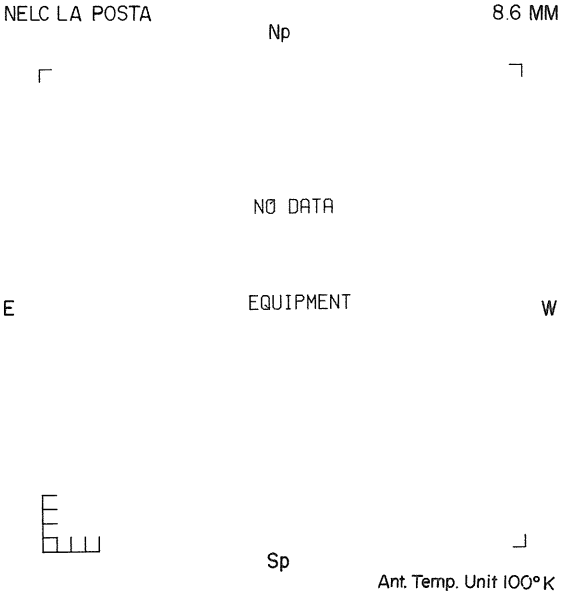
BOULDER



NELC LA POSTA



NELC LA POSTA



JANUARY 25, 1975 (P=-8.98, B_o=-5.46, L_o=330.15)

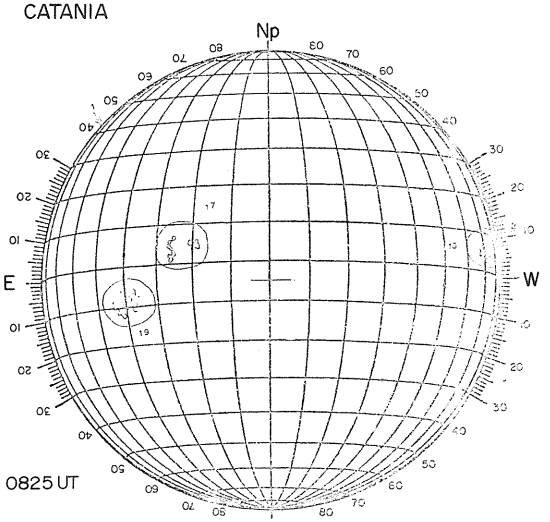
UNIV. COLLEGE LONDON
LEICESTER UNIV.

Np
E
W
Sp

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

CATANIA

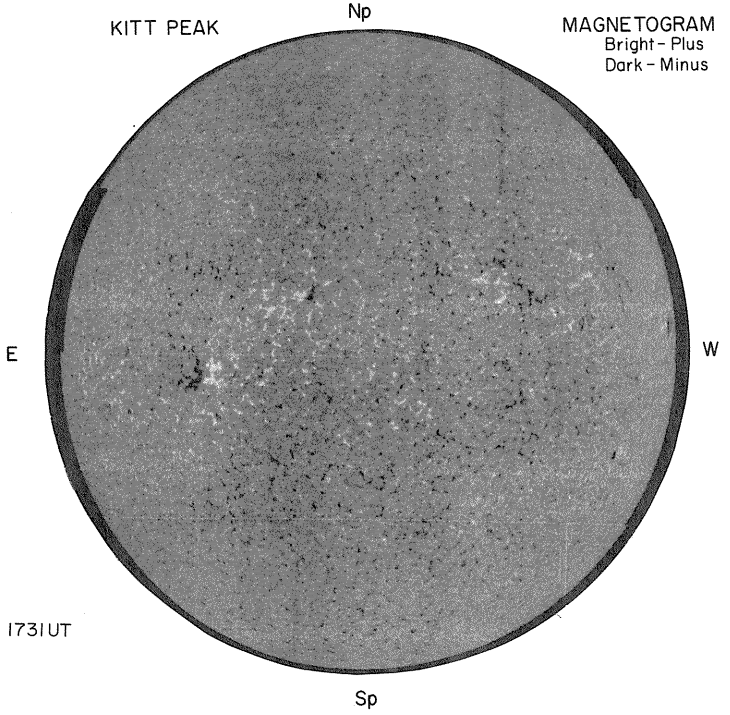


0825 UT

CALCIUM REPORT

FAIR EC
19 - 1105 ---

KITT PEAK

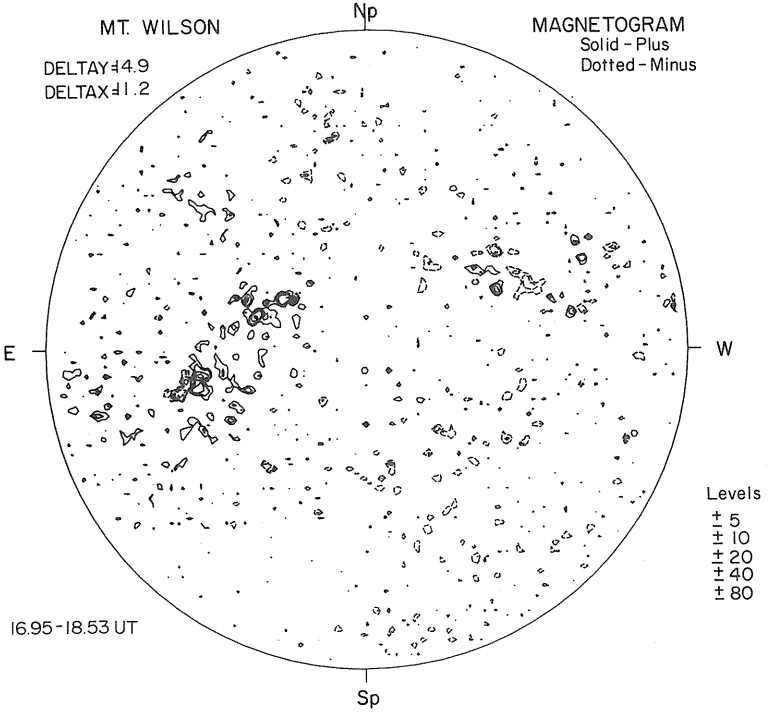


MAGNETOGRAM
Bright - Plus
Dark - Minus

1731 UT

MT. WILSON

DELTAY=4.9
DELTAX=1.2



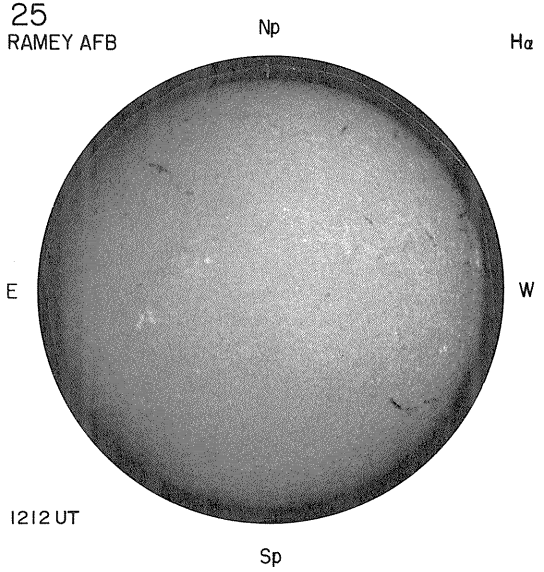
MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

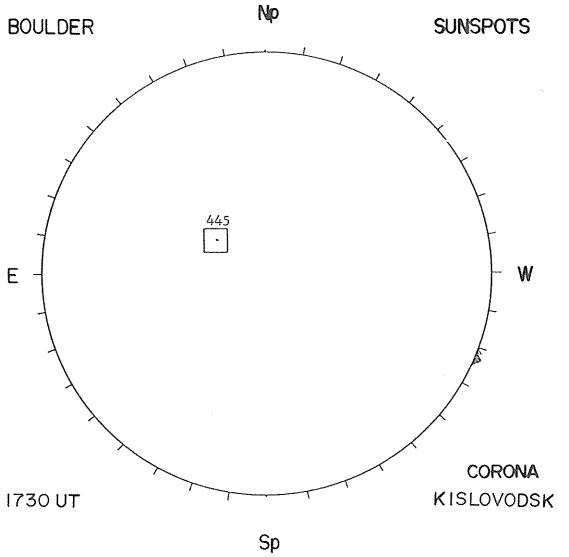
16.95-18.53 UT

25

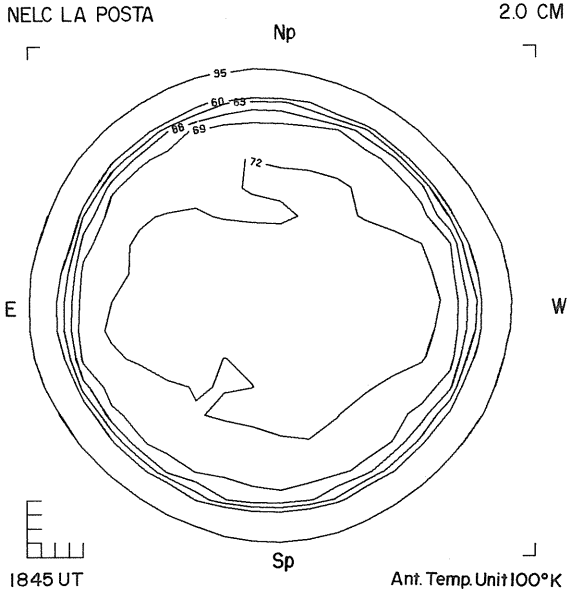
RAMEY AFB



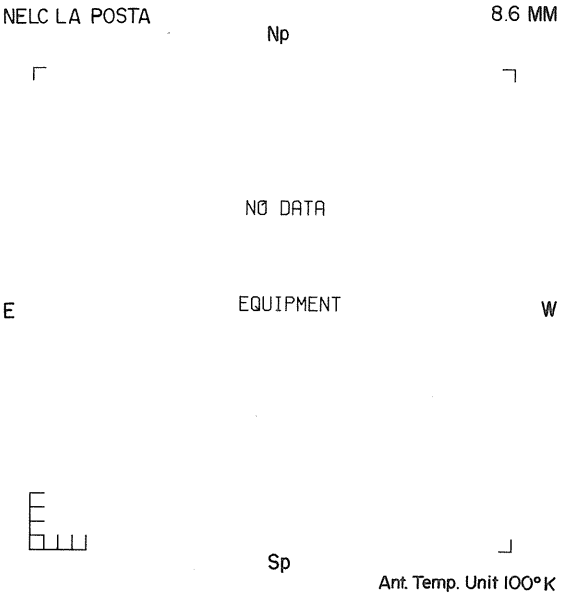
BOULDER



NELC LA POSTA



NELC LA POSTA

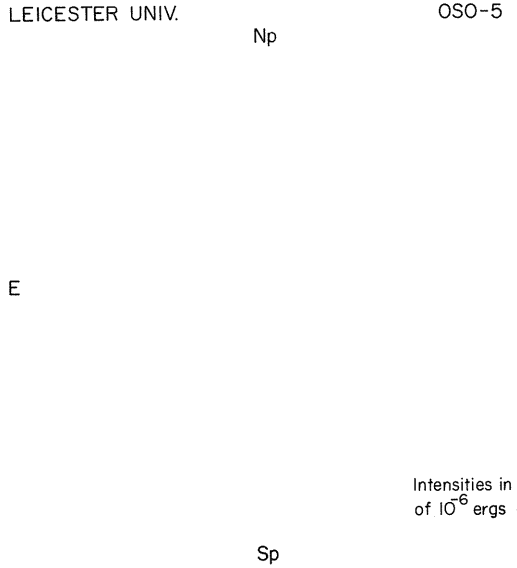


73
Jan 75

JANUARY 26, 1975 (P=-9.42, B_o=-5.55, L_o=316.98)

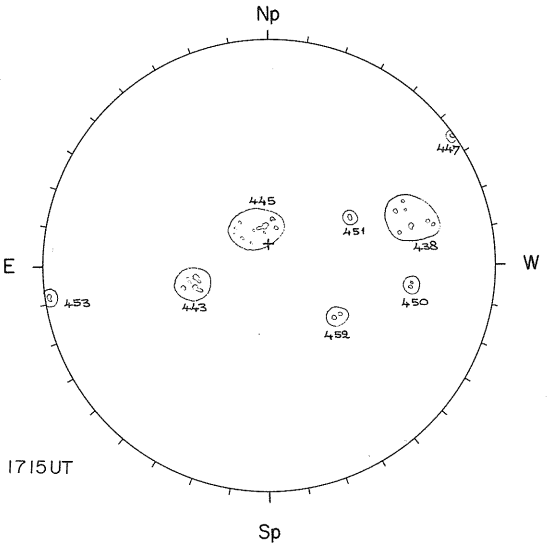
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5



Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

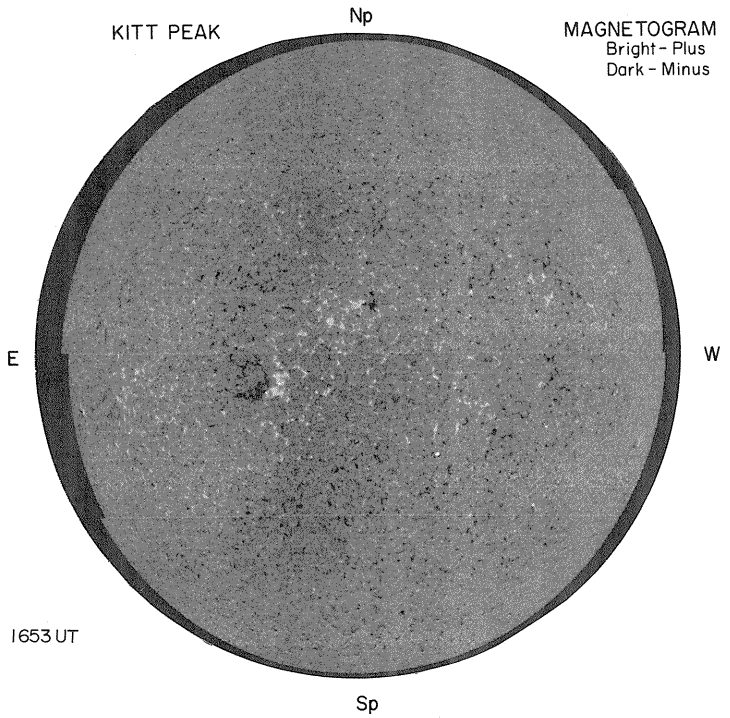


1715 UT

CALCIUM REPORT

V. POOR D
43 - 0600 - 2.5
45 - 0500 - 2.5

KITT PEAK

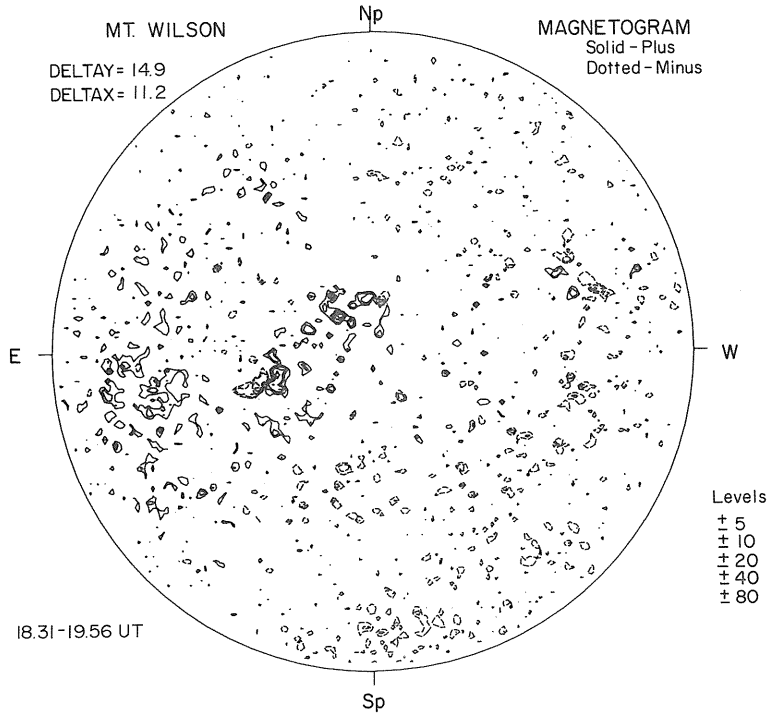


MAGNETOGRAM
Bright - Plus
Dark - Minus

1653 UT

MT. WILSON

DELTAY= 14.9
DELTAX= 11.2

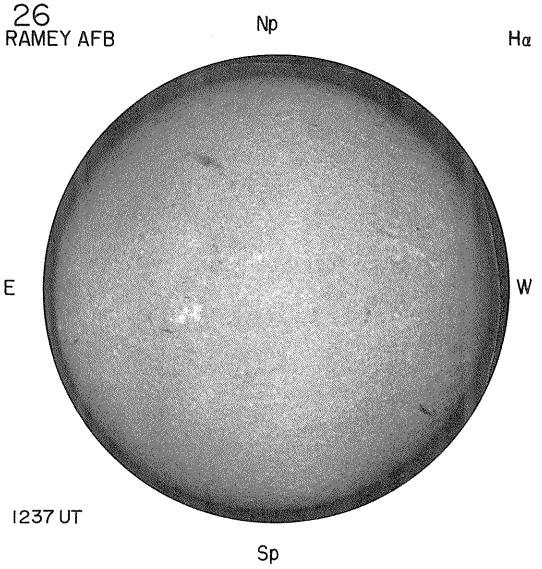


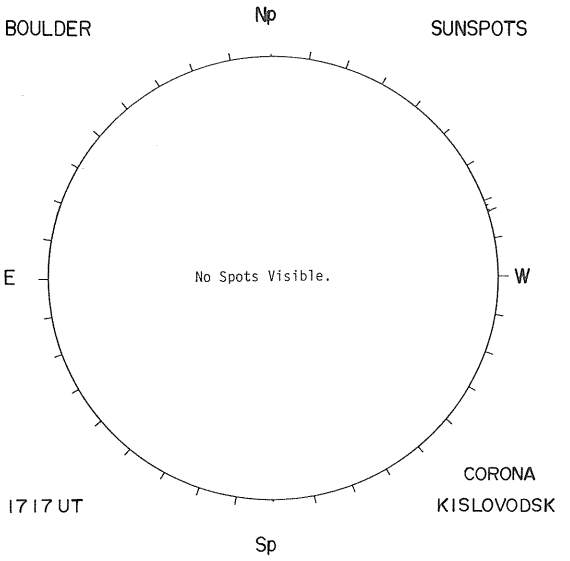
MAGNETOGRAM
Solid - Plus
Dotted - Minus

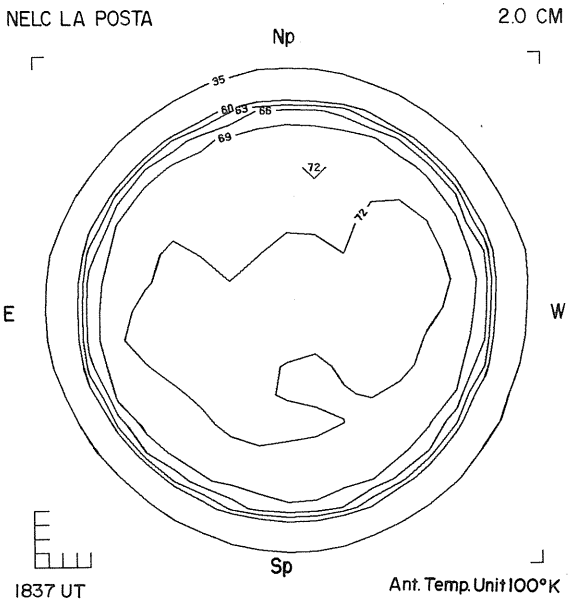
Levels
± 5
± 10
± 20
± 40
± 80

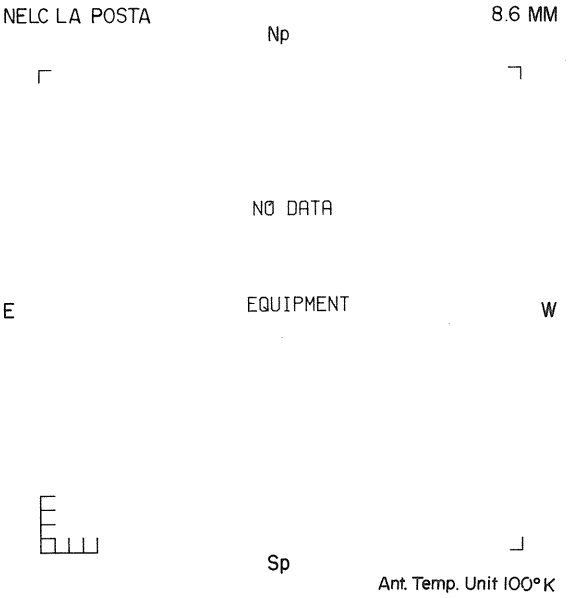
18.31 - 19.56 UT

26
RAMEY AFB







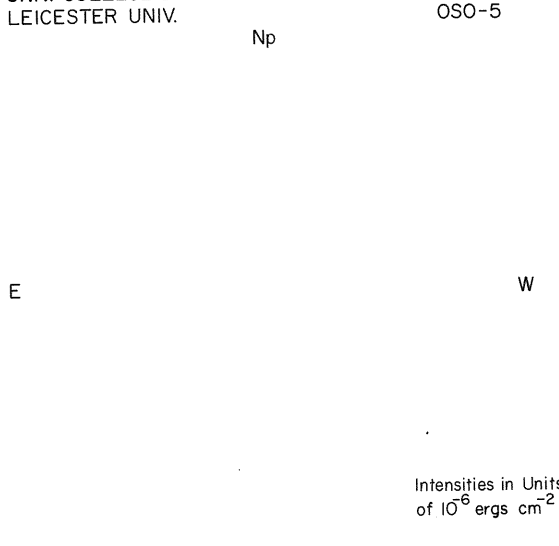


75
Jan 75

JANUARY 27, 1975 (P=-9.86, B_o=-5.63 L_o=303.81)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

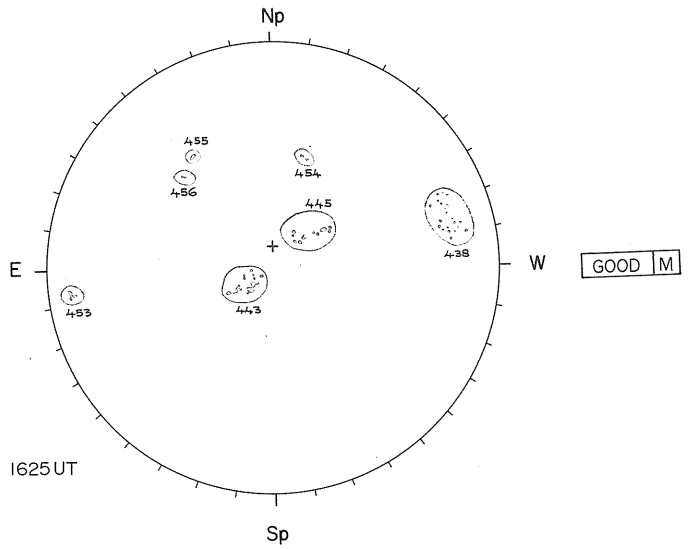
X-RAY
OSO-5



Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

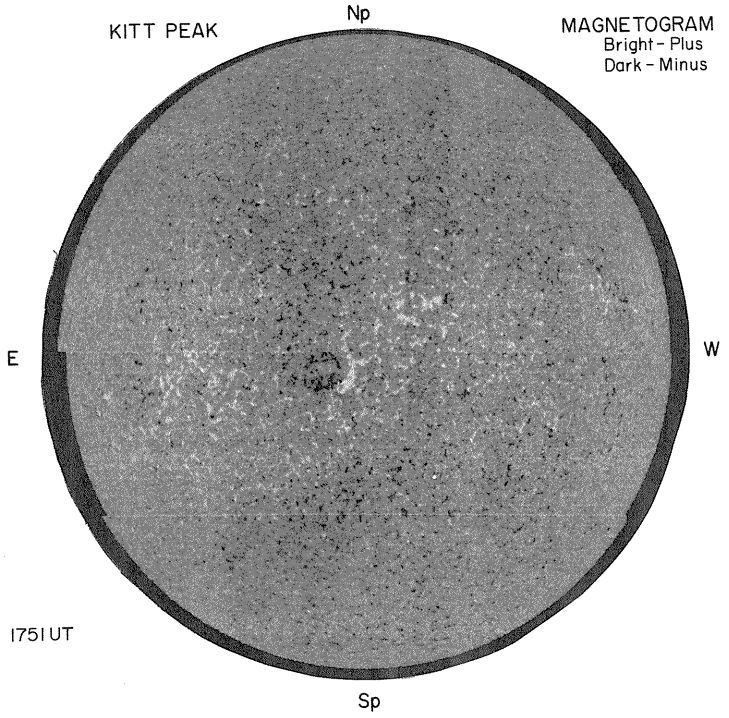


GOOD | M

1625 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

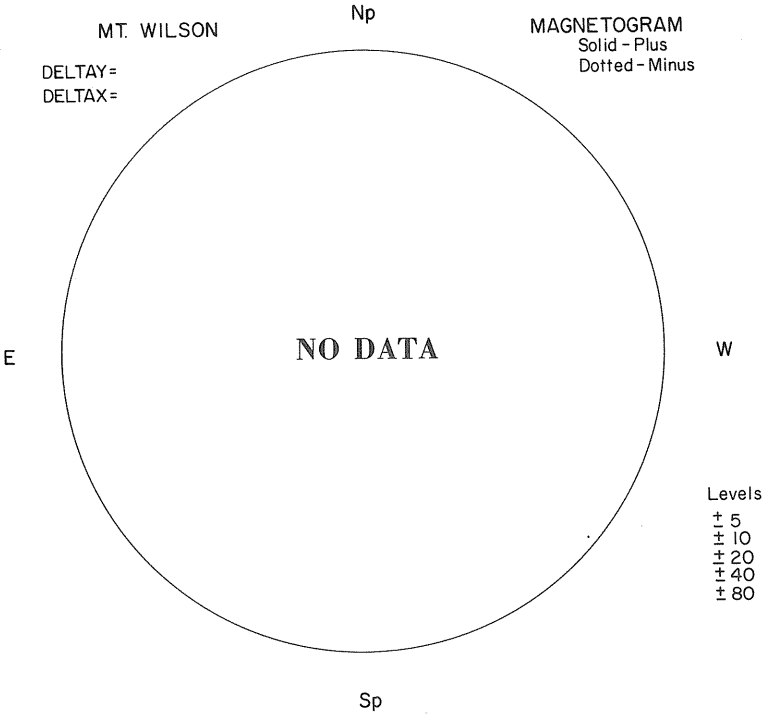


1751 UT

MT. WILSON

DELTAY=
DELTAX=

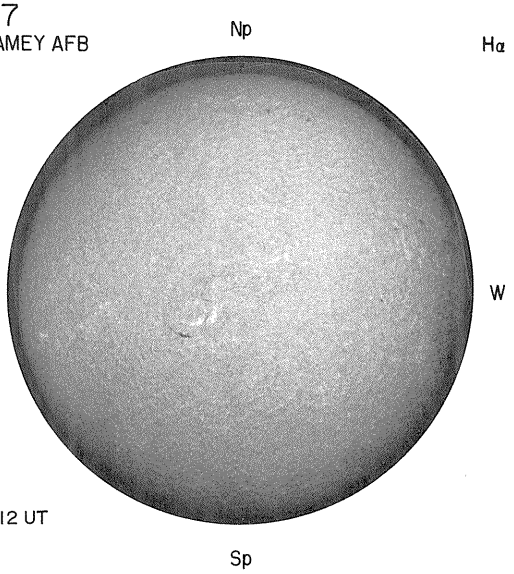
MAGNETOGRAM
Solid - Plus
Dotted - Minus

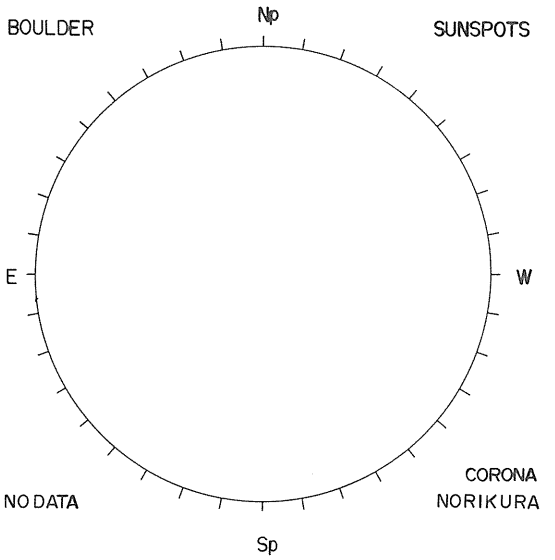


NO DATA

Levels
± 5
± 10
± 20
± 40
± 80

27
RAMEY AFB





NELC LA POSTA

Np

2.0 CM

NØ DATA

E

WEATHER

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

NØ DATA

E

EQUIPMENT

W

Sp

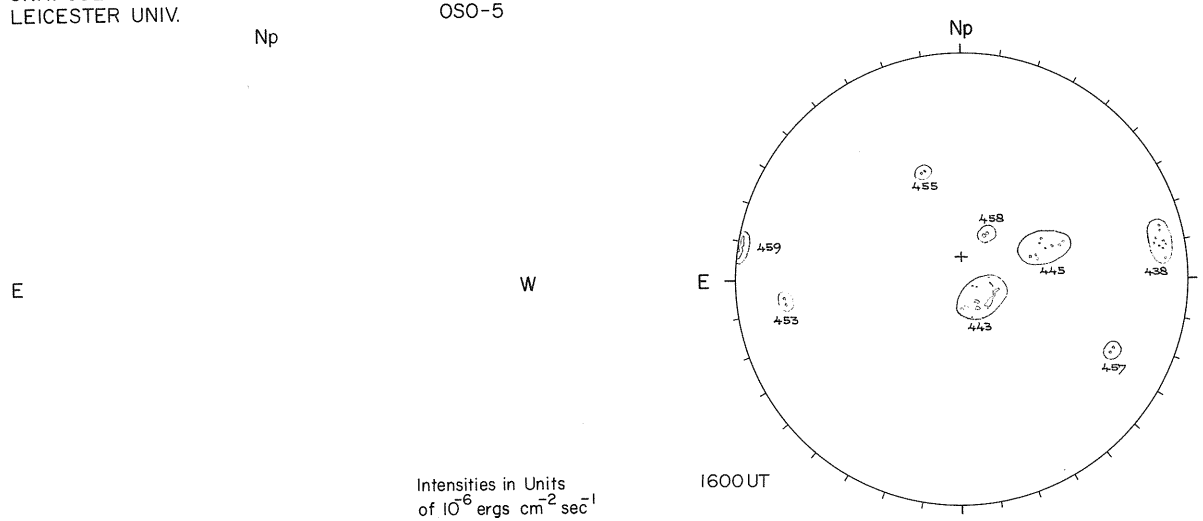
Ant. Temp. Unit 100°K

77
Jan 75

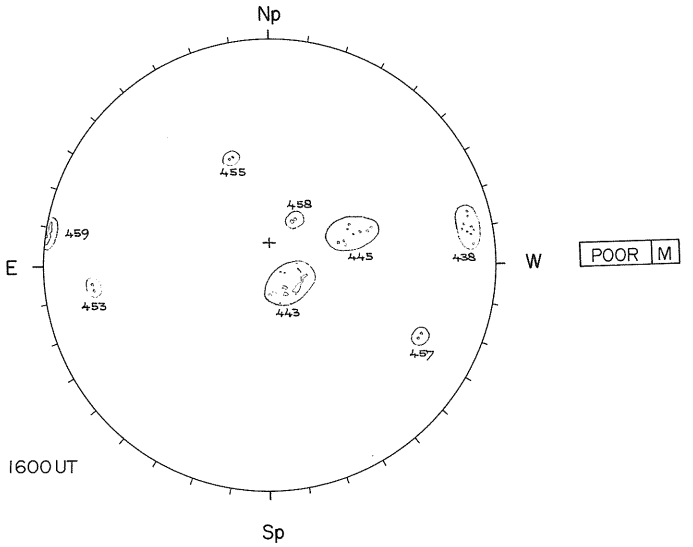
JANUARY 28, 1975 (P=-10.29, B_o=-5.71, L_o=290.65)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5



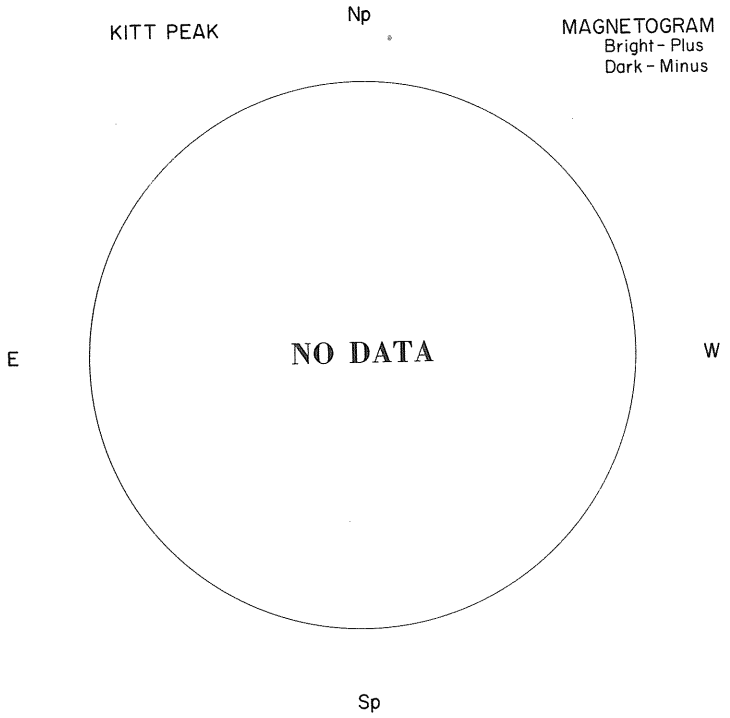
McMATH-HULBERT



CALCIUM REPORT

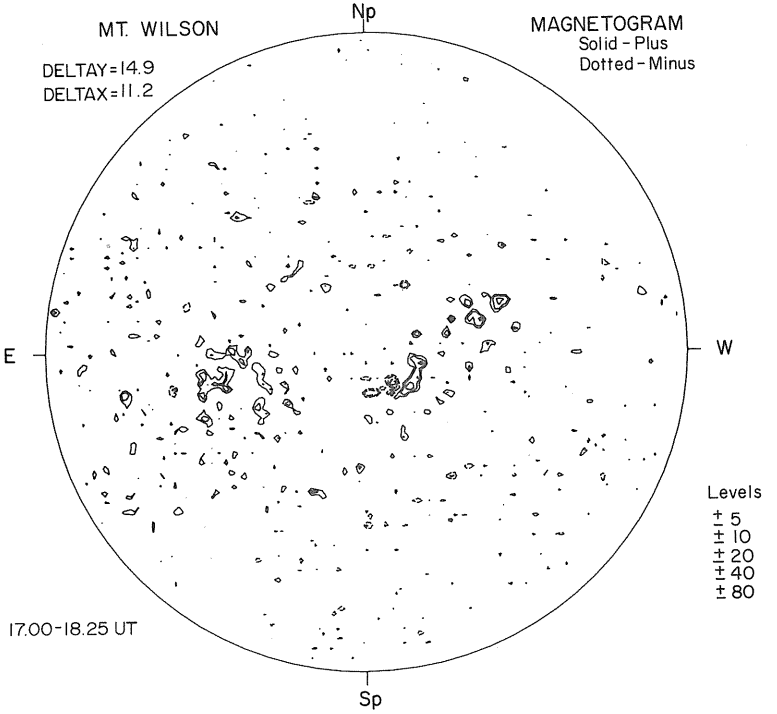
POOR | M

KITT PEAK



MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

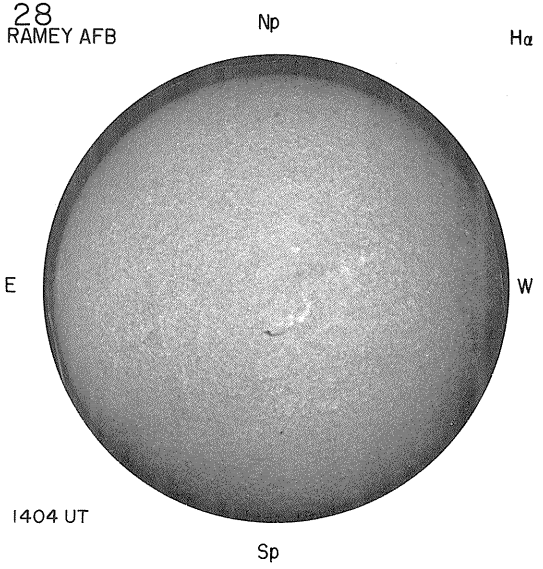


DELTAY=14.9
DELTAX=11.2

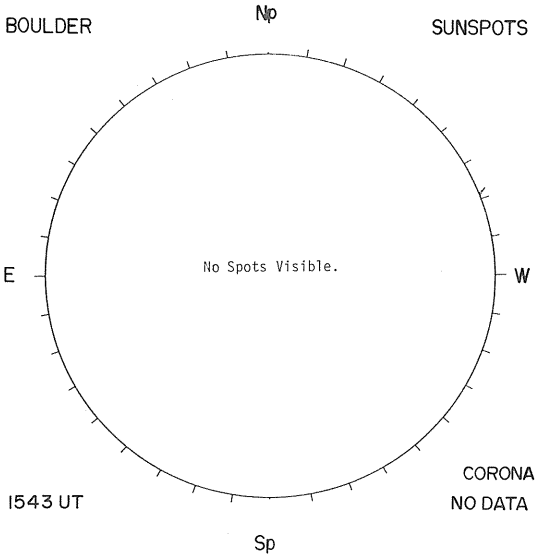
MAGNETOGRAM
Solid - Plus
Dotted - Minus

28

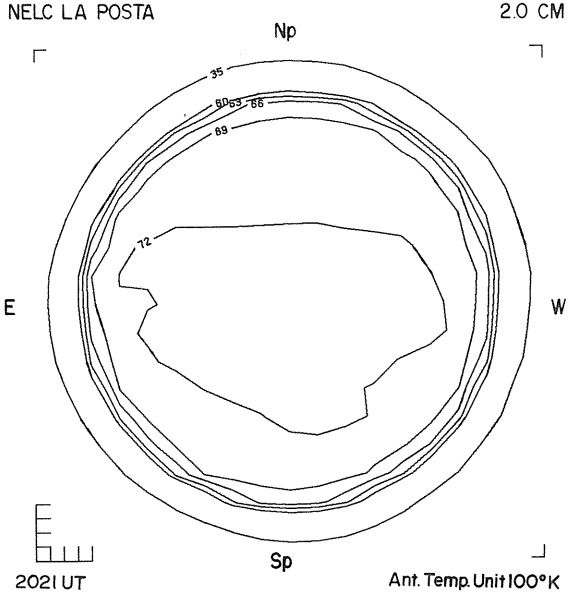
RAMEY AFB



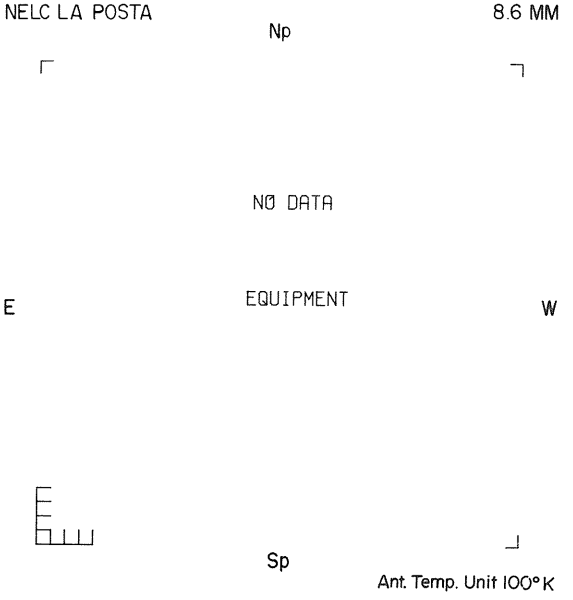
BOULDER



NELC LA POSTA



NELC LA POSTA



JANUARY 29, 1975 (P=-10.71, B_o=-5.79, L_o=277.48)

UNIV. COLLEGE LONDON
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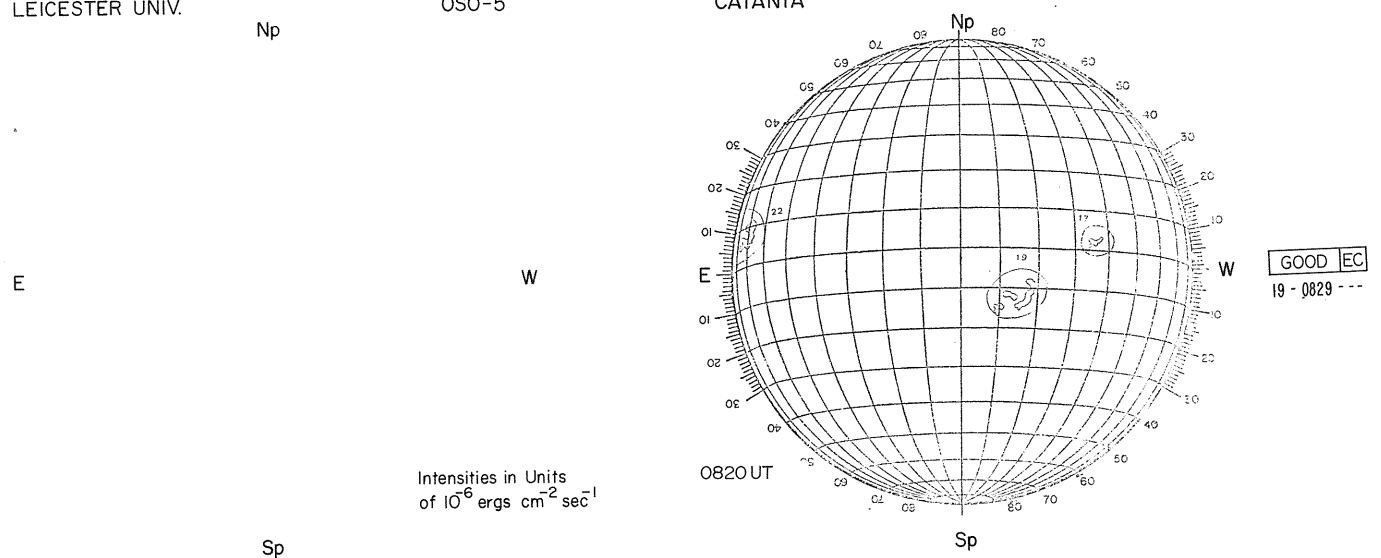
OSO-5

CATANIA

CALCIUM REPORT

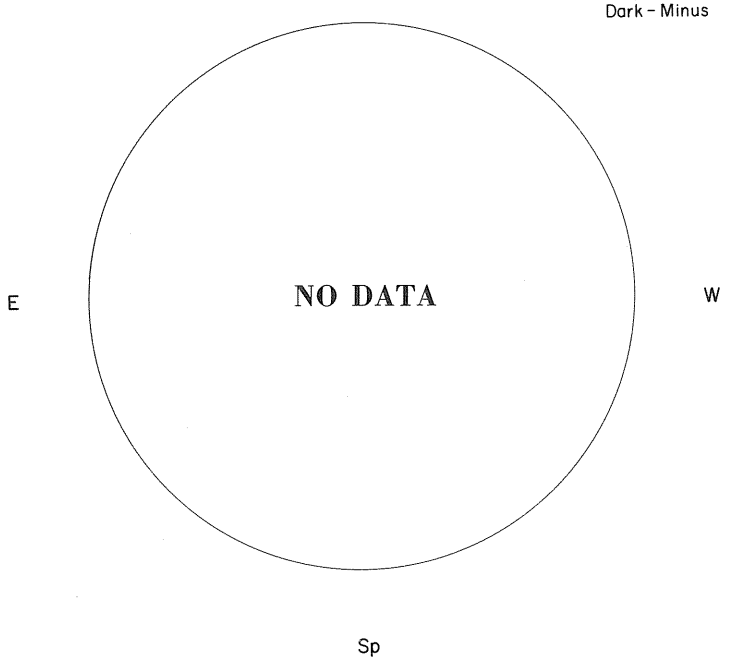


GOOD | EC
19 - 0829 - - -

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus



NO DATA

MT. WILSON

DELTAY=
DELTAX=

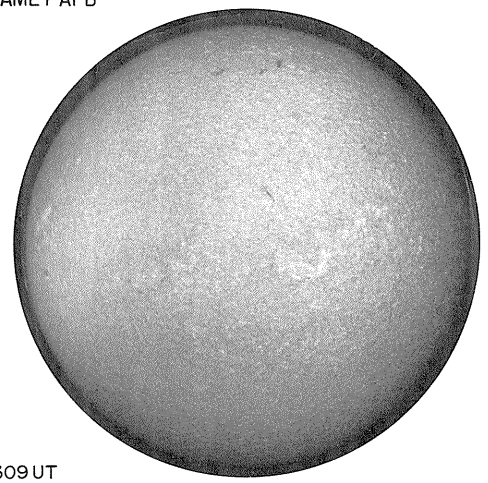
MAGNETOGRAM
Solid - Plus
Dotted - Minus

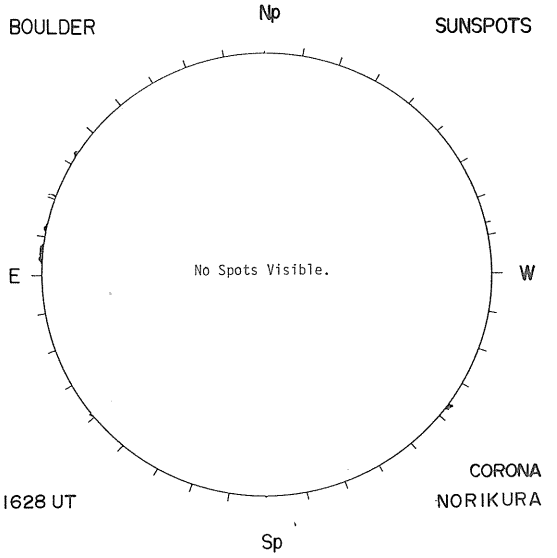
NO DATA

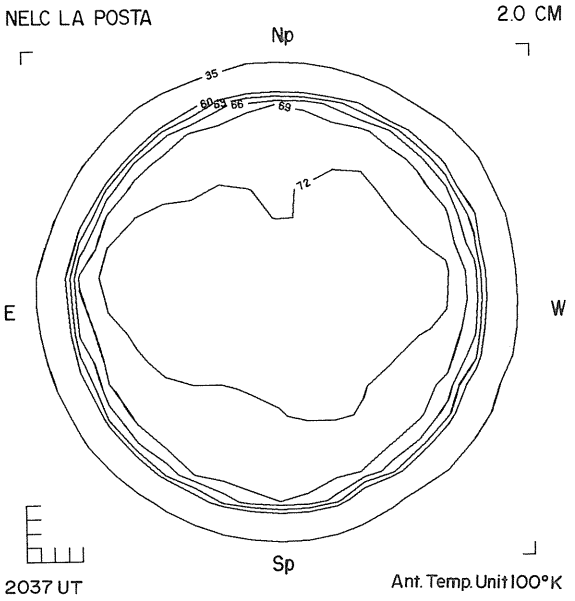
Levels
± 5
± 10
± 20
± 40
± 80

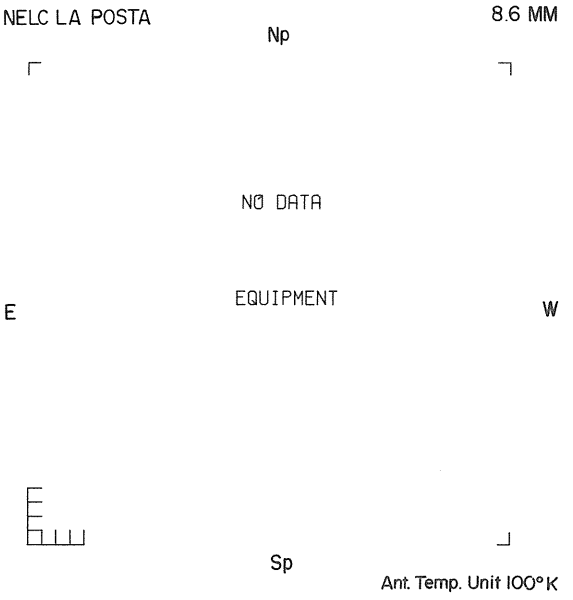
29

RAMEY AFB


Np
Hα
E
W
1309 UT
Sp


BOULDER
Np
SUNSPOTS
E
No Spots Visible.
W
CORONA
NORIKURA
1628 UT
Sp


NELC LA POSTA
Np
2.0 CM
35
60
63
66
69
72
E
W
2037 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
NO DATA
EQUIPMENT
E
W
Sp
Ant. Temp. Unit 100°K

JANUARY 30, 1975 (P=-11.14, B_o=-5.86, L_o=264.31)

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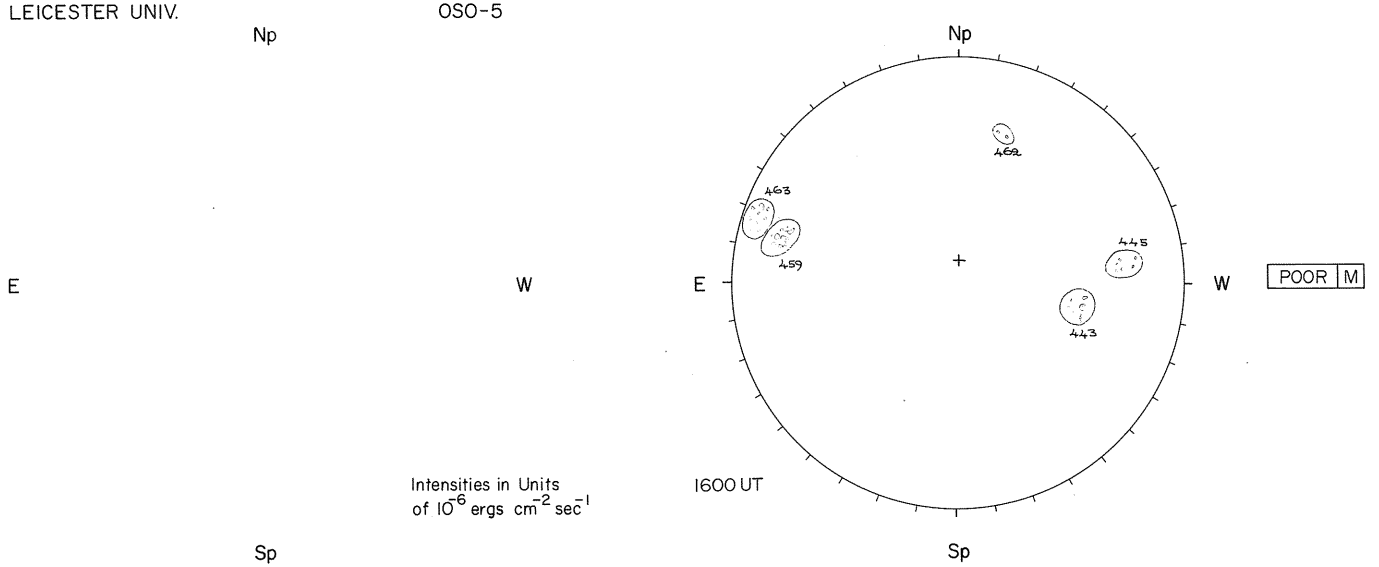
McMATH-HULBERT

CALCIUM REPORT

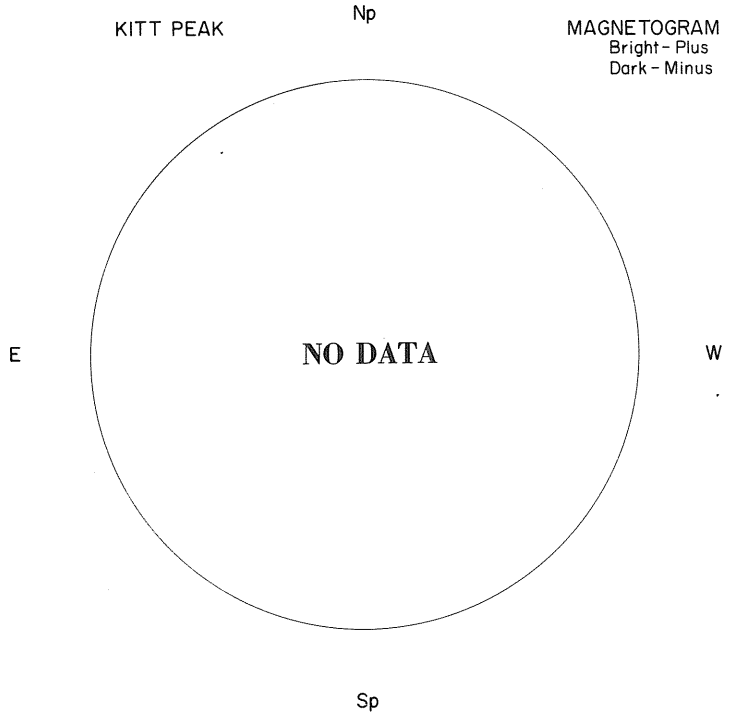


Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

1600 UT

KITT PEAK

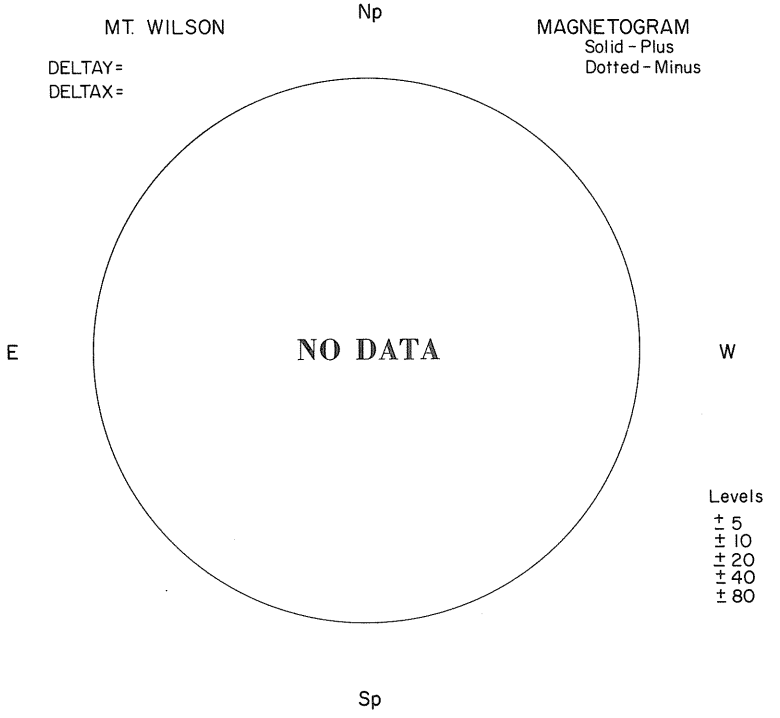
MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON

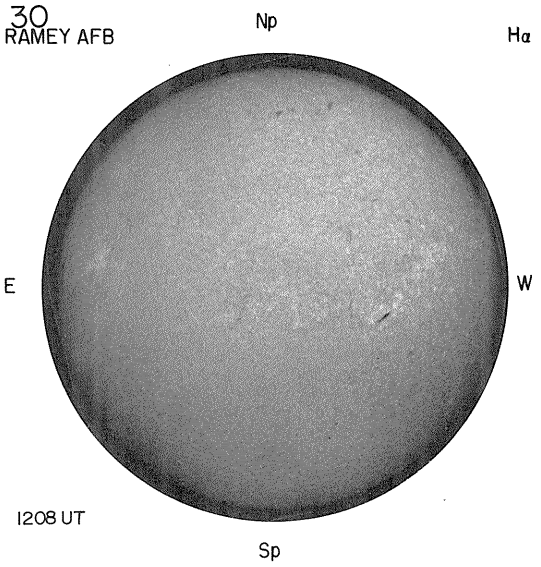
DELTAY=
DELTAX=

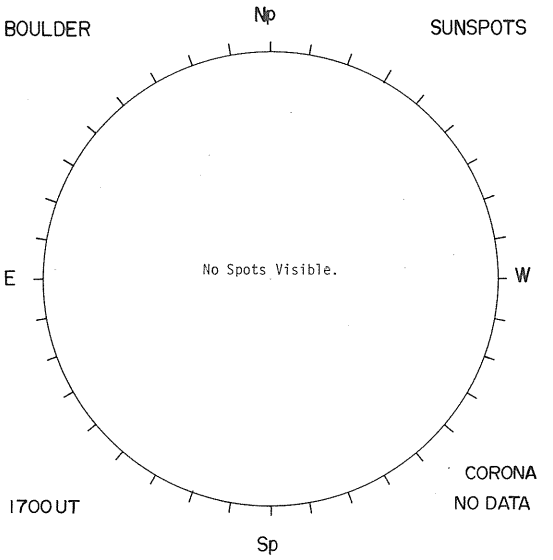
MAGNETOGRAM
Solid - Plus
Dotted - Minus

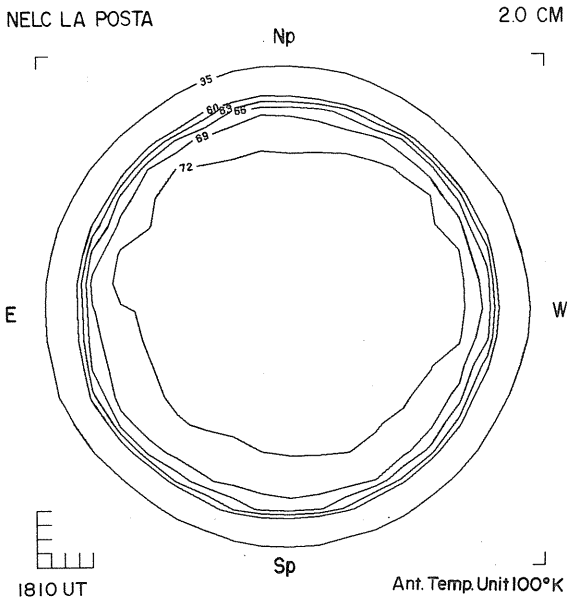


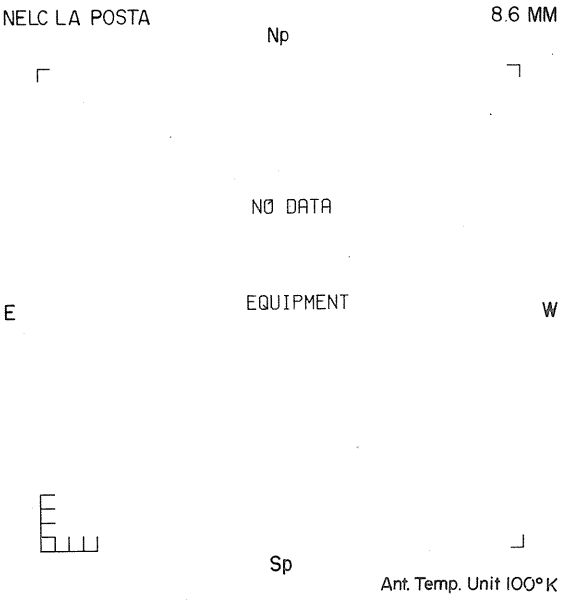
Levels
± 5
± 10
± 20
± 40
± 80

30
RAMEY AFB


Np
Hα
E
W
1208 UT
Sp


BOULDER
Np
SUNSPOTS
E
No Spots Visible.
W
CORONA
NO DATA
1700 UT
Sp


NELC LA POSTA
Np
2.0 CM
95
60
65
66
69
72
E
W
Sp
1810 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
NO DATA
EQUIPMENT
E
W
Sp
Ant. Temp. Unit 100°K

JANUARY 31, 1975 (P=-11.55, B_o=-5.94, L_o=251.15)

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LEICESTER UNIV.

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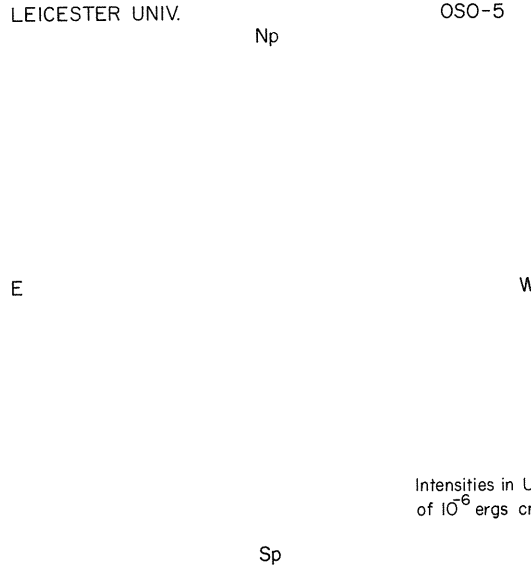
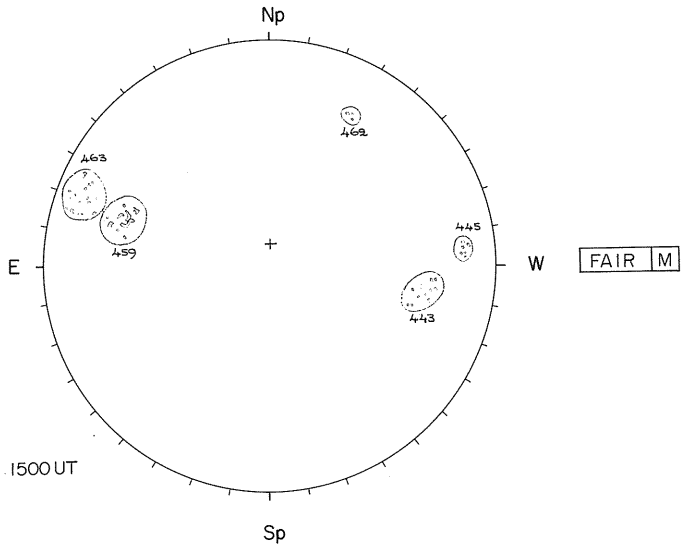
OSO-5



Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

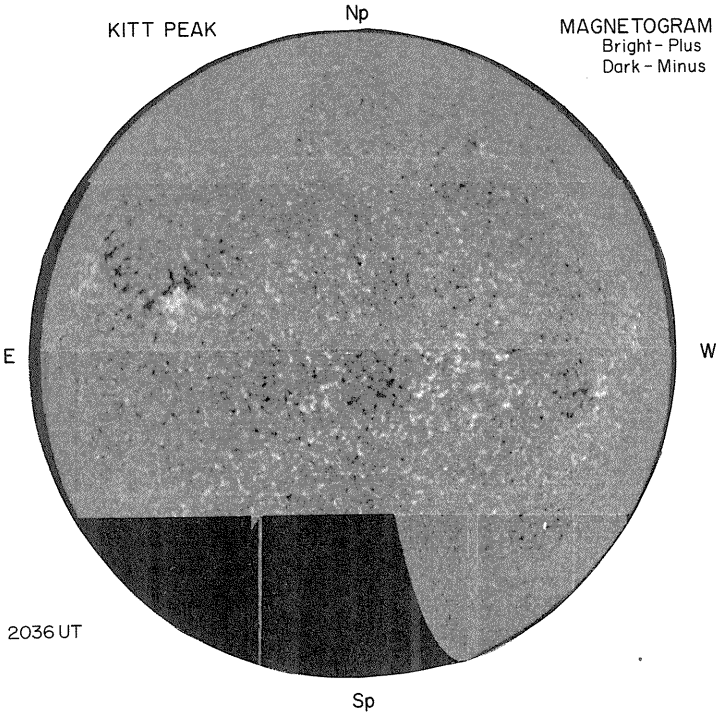
CALCIUM REPORT



1500 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

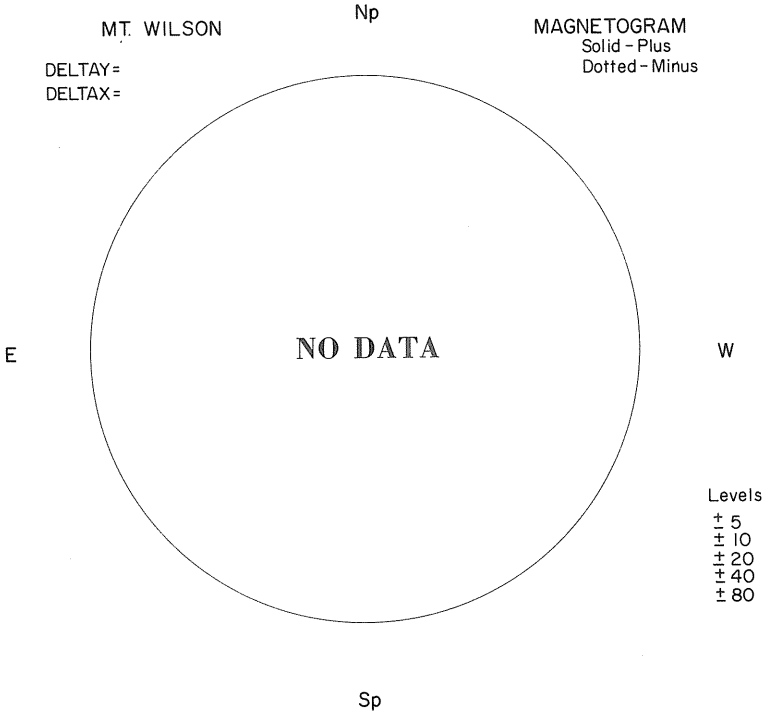


2036 UT

MT. WILSON

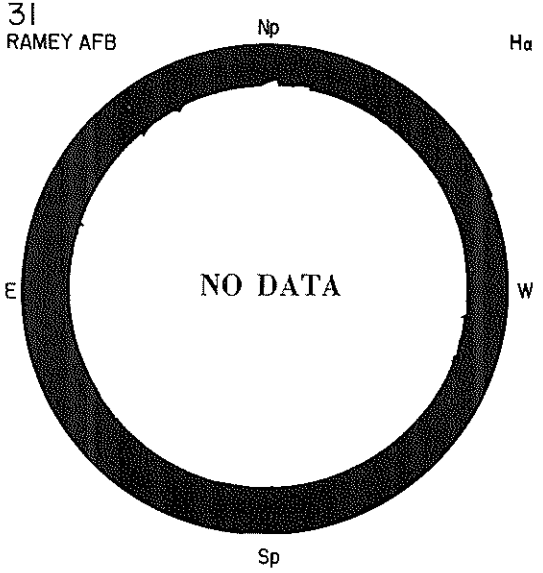
DELTAY=
DELTAX=

MAGNETOGRAM
Solid - Plus
Dotted - Minus

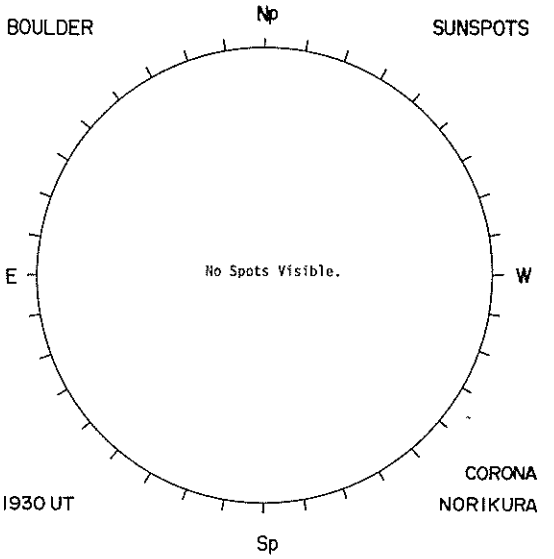


Levels
± 5
± 10
± 20
± 40
± 80

31
RAMEY AFB



BOULDER

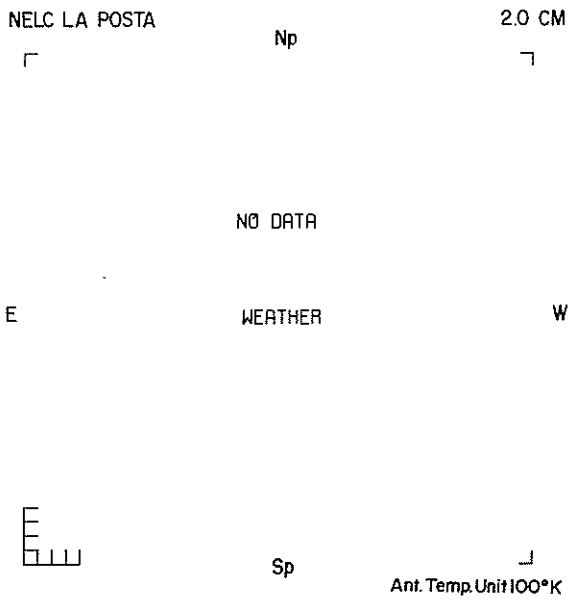


SUNSPOTS

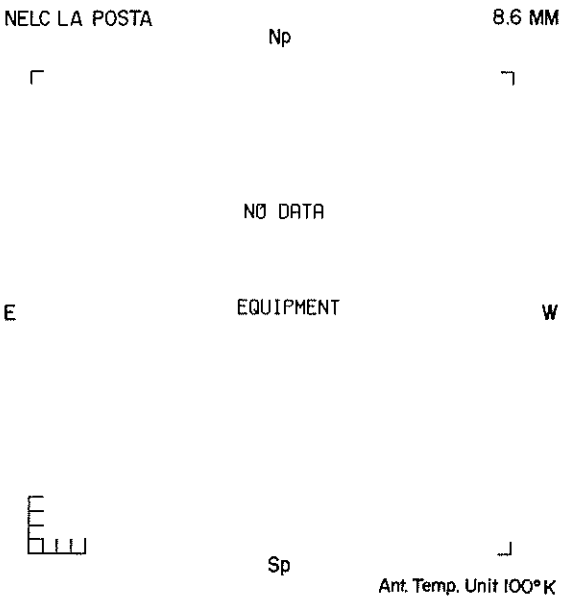
CORONA
NORIKURA

1930 UT

NELC LA POSTA



NELC LA POSTA



85
Jan 75

REGIONS OF SOLAR ACTIVITY

JANUARY 1975

MCMATH REGION 13407 CMP DATE 2.4

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	1	13407	S28 E08	267	200	1.5									
75	1	2	13407	S29 W03	266	300	1.5									

MCMATH REGION 13406 CMP DATE 2.5

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	1	13406	N01 E10	265	300	1.0									
75	1	2	13406	N01 W01	264	300	1.0									
75	1	4	13406	N03 W27	263	200	1.5									
75	1	5	13406	N03 W37	261	200	1.0									

MCMATH REGION 13417 CMP DATE 2.8

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	7	13417	S21 W66	262	200	1.0									

MCMATH REGION 13410 CMP DATE 3.1

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	2	13410	S20 E06	257	200	2.0									

MCMATH REGION 13402 CMP DATE 3.4

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
74	12	30	13402	N27 E50	254	200	1.5									

MCMATH REGION 13400 CMP DATE 4.2

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
74	12	29						19531	S09 E73	243	BP		B	80	3	CSO
74	12	30	13400	S10 E60	244	1000	3.0	19531	S09 E60	242	(BP)	4	B	130	6	DSO
75	1	1	13400	S08 E33	242	1000	3.5	19531	S09 E33	242	(BP)	4	B	230	5	DSO
75	1	2	13400	S08 E21	242	1000	3.0	19531	S09 E19	242	(BP)	3	R	90	6	DSI
75	1	3						19531	S09 E08	242	(BP)	4	B	120	3	CRO
75	1	4	13400	S08 W06	242	800	2.5	19531	S08 W07	241	(BP	3	B	70	1	HAX
75	1	5	13400	S08 W19	243	1100	2.5	19531	S08 W26	246	(AP)	3	B	30	4	CSI
75	1	6	13400	S10 W30	241	1100	2.5	19531	S08 W39	248	(AP)	2	M	40	3	CAI
75	1								S08 W40				M	10	3	AXX
75	1	7	13400	S09 W45	241	1000	2.0									

MCMATH REGION 13414 CMP DATE 4.4

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	6	13414	N09 W30	241	200	2.5	19534	N10 W35	244	(BP)	2	M	50	7	CRO
75	1	7	13414	N09 W46	242	600	3.0	19534	N10 W48	243	(BP)	4	B	60	11	CSO
75	1	8							N11 W61				B	50	2	BXO
75	1	9						19534	N11 W78	245	AP					

MCMATH REGION 13418 CMP DATE 4.6

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	6	13418						N05 W30				M	10	1	AXX
75	1	7	13418	N06 W41	237	200	2.0									

REGIONS OF SOLAR ACTIVITY

JANUARY 1975

MCMATH REGION 13401 CMP DATE 5.5

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
74	12	30	13401	S13 E77	227	200	1.0									
75	1	1	13401	S13 E49	226	200	1.0									
75	1	2	13401	S13 E38	225	200	1.0									
75	1	4	13401	S13 E11	225	200	1.0									
75	1	5	13401	S13 W01	225	200	1.0									
75	1	6	13401	S13 W14	225	300	1.0									
75	1	7	13401	S13 W30	226	200	1.0									

MCMATH REGION 13408 CMP DATE 5.7

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	1	13408	S23 E52	223	100	1.0									

MCMATH REGION 13413 CMP DATE 6.6

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	5	13413	N04 E12	212	100	1.5									

MCMATH REGION 13409 CMP DATE 7.8

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	1	13409	N06 E85	190	900	2.5	19533	N03 E80	195	(AP)	3				
75	1	2	13409	N06 E71	192	700	2.5	19533	N04 E66	195	(AP)	3	R	50	3	CSO
75	1	3						19533	N03 E54	196	(BP)	4	B	80	2	BXO
75	1	4	13409	N07 E43	193	600	2.5	19533	N04 E39	195	(BP)	3	B	50	2	CSO
75	1	5	13409	N06 E30	194	600	2.0	19533	N05 E24	196	(AP)	3	B	30	1	HSX
75	1	6	13409	N06 E16	195	500	3.0	19533	N05 E12	197	(AP)	3	M	40	1	HAX
75	1								N04 E24				M	30	1	HSX
75	1	7	13409	N06 E01	195	500	2.5	19533	N06 W02	197	(AP)	3	B	20	1	HSX
75	1	8							N05 W14				B	20	1	AXX
75	1	9						19533	N04 W30	197	(BP)	3				
75	1	10						19533	N06 W43	199	(AP)	4				
75	1	11	13409	N05 W53	197	900	3.0	19533	N06 W56	199	(BP)	4	R	70	4	HAX
75	1	12	13409	N05 W65	196	1000	3.0	19533	N06 W72	199	(AP)	3	B	80	1	HSX
75	1	13	13409	N05 W80	198	1500	3.5	19533	N06 W86	204	(AP)	3				

MCMATH REGION 13412 CMP DATE 8.4

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	4	13412	S31 E49	187	100	1.0									

MCMATH REGION 13411 CMP DATE 9.1 RETURN OF REGION 13373 ROTATION 2

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	2	13411	N13 E88	175	800	1.5									
75	1	4	13411	N14 E59	177	1600	2.5									
75	1	5	13411	N13 E45	179	1800	3.0									
75	1	6	13411	N13 E32	179	2100	3.5									
75	1	7	13411	N13 E17	179	1500	2.5									
75	1	11	13411	N12 W35	179	1300	2.0									
75	1	12	13411	N10 W46	177	1300	2.0									
75	1	13	13411	N10 W60	178	1300	2.0									
75	1	14	13411	N12 W73	178	1000	1.5									
75	1	15	13411	N12 W88	178	500	1.0									

MCMATH REGION 13428 CMP DATE 11.0

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	13	13428	N13 W35	153	100	1.0									

REGIONS OF SOLAR ACTIVITY

JANUARY 1975

MCMATH REGION 13415 CMP DATE 11.2

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	6	13415	N13 E60	151	200	2.0									
75	1	7	13415	N13 E45	151	100	1.0									

MCMATH REGION 13419 CMP DATE 11.6

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	11	13419	N20 W01	145	100	1.0									

MCMATH REGION 13431 CMP DATE 11.7

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	14	13431	N08 W39	144	100	1.0									

MCMATH REGION 13420 CMP DATE 12.4

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	9						19535	S26 E33	134	BF)	2				
75	1	10						19535	S26 E22	134	(B)	2				
75	1	11	13420	S26 E09	135	300	2.0		S24 E10				R	0	1	AXX
75	1	12	13420	S26 W02	133	300	2.0									
75	1	13	13420	S27 W15	133	200	1.0									
75	1	14	13420	S28 W26	131	100	1.5									
75	1	15	13420	S28 W41	131	100	1.0									

MCMATH REGION 13435 CMP DATE 12.6

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	16	13435	N38 W54	133	100	1.0									

MCMATH REGION 13425 CMP DATE 12.9

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	12	13425	S07 E04	127	100	2.0									

MCMATH REGION 13416 CMP DATE 13.0 RETURN OF REGION 13381 ROTATION 2

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	6	13416	S12 E87	124	300	1.0									
75	1	7	13416	S12 E69	127	200	2.5									

MCMATH REGION 13429 CMP DATE 13.3

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	13	13429	S23 W05	123	100	1.0									
75	1	14	13429	S24 W18	123	100	1.5									
75	1	15	13429	S25 W33	123	100	1.0									

MCMATH REGION 13430 CMP DATE 13.8

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	13	13430	N15 E01	117	100	1.0									

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MCMATH REGION 13433 CMP DATE 14.0

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	15	13433	N30 W24	114	200	1.5									
75	1	16	13433	N30 W36	115	100	1.0									

MCMATH REGION 13436 CMP DATE 14.8

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	15	13436	N05 W24	103	100	2.5									
75	1	17	13436	N05 W36	98	200	2.0									

MCMATH REGION 13423 CMP DATE 15.1 RETURN OF REGION 13380 ROTATION 3

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	8							N15 E81				B	200	1	HXX
75	1	9						19536	N13 E66	101	(AP)	3				
75	1	10						19536	N13 E54	102	(AP)	5				
75	1	11	13423	N16 E45	99	1400	3.0	19536	N13 E41	102	(AP)	5	R	140	3	HAX
75	1	12	13423	N18 E34	97	1300	2.5	19536	N13 E25	102	(AP)	5	B	150	2	HSX
75	1	13	13423	N17 E20	98	1500	2.5	19536	N14 E16	102	(AP)	6	B	150	1	HSX
75	1	14	13423	N16 E06	99	1400	2.5	19536	N14 E02	102	(BP)	5	B	150	1	HSX
75	1	15	13423	N16 W09	99	1300	3.0	19536	N13 W10	102	(BP)	5	B	140	7	CSX
75	1	16	13423	N16 W20	99	1300	3.0	19536	N14 W25	103	(AP)	5	B	130	1	HSX
75	1	17	13423	N16 W33	95	1100	2.5	19536	N14 W37	102	(AP)	5	B	100	3	HSX
75	1	18						19536	N15 W50	102	(AP)	4	B	90	1	HSX
75	1	19						19536	N14 W62	101	(AP)	4	B	100	1	HSX
75	1	20	13423	N16 W74	100	1200	2.0	19536	N14 W77	103	(AP)	4	B	80	1	HSX
75	1	21	13423	N16 W84	97	700	1.5									

MCMATH REGION 13422 CMP DATE 15.8

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	11	13422	N05 E54	90	700	2.5	19537	N03 E57	86	(AF)	2				
75	1	12	13422	N05 E42	89	800	3.0	19537	N05 E44		AF		B	10	1	AXX
75	1	13	13422	N05 E28	90	1100	3.0	19537	N04 E32	86	A					
75	1	14	13422	N04 E15	90	1000	2.5									
75	1	15	13422	N03 E00	90	1100	3.0	19537	N02 E02	90	(B)	3	B	40	14	CRX
75	1	16	13422	N04 W12	91	900	3.0	19537	N02 W12	90	(B)	2	B	30	2	CRO
75	1	17	13422	N04 W26	88	900	2.5									
75	1	20	13422	N04 W66	92	900	2.0									
75	1	21	13422	N03 W80	93	1000	1.5									

MCMATH REGION 13432 CMP DATE 16.0

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	14	13432	S15 E18	87	100	1.5									

MCMATH REGION 13424 CMP DATE 16.2

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	11	13424	N16 E61	83	300	1.5									
75	1	12	13424	N16 E49	82	200	1.5									
75	1	13	13424	N17 E35	83	200	1.0									
75	1	14	13424	N16 E19	86	300	1.0									
75	1	15	13424	N15 E05	85	200	1.0									
75	1	16	13424	N16 W07	86	200	1.5									
75	1	17	13424	N16 W20	82	200	1.0									
75	1	20	13424	N16 W60	86	200	1.0									

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MCMATH REGION 13421 CMP DATE 17.0

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	11	13421	S12 E72	72	500	2.0									
75	1	12	13421	S11 E58	73	500	2.0									
75	1	13	13421	S11 E44	74	300	2.0									
75	1	14	13421	S12 E32	73	400	2.0									
75	1	15	13421	S13 E17	73	400	2.0									
75	1	16	13421	S13 E05	74	400	2.0									
75	1	17	13421	S13 W08	70	300	2.0									
75	1	20	13421	S13 W48	74	300	2.0									
75	1	21	13421	S13 W63	76	500	1.5									

MCMATH REGION 13426 CMP DATE 18.7 RETURN OF REGION 13382 ROTATION 3

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	12	13426	N12 E79	52	600	1.0									
75	1	13	13426	N13 E65	53	1000	1.5									
75	1	14	13426	N12 E53	52	1100	2.0									
75	1	15	13426	N12 E39	51	1000	2.5									
75	1	16	13426	N12 E28	51	1100	2.0									
75	1	17	13426	N13 E14	48	1000	2.0									
75	1	18						19538	N15 W02	54	(A)	1				
75	1	20	13426	N13 W25	51	1200	2.0									
75	1	21	13426	N12 W40	53	900	1.5									
75	1	23	13426	N13 W67	53	700	1.5									
75	1	24	13426	N13 W81	53	400	1.0									

MCMATH REGION 13439 CMP DATE 20.1

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	17	13439	N08 E31	31	100	2.0									
75	1	18						19539	N06 E20	32	(B)	3	B	20	13	BXO
75	1	19						19539	N06 E07	32	(BP)	4	B	40	7	CSO
75	1	20	13439	N07 W07	33	800	3.0	19539	N06 W08	34	(BP)	4	B	40	3	CSO
75	1	21	13439	N07 W20	33	700	3.0	19539	N07 W23	36	(BP)	3	R	20	5	BXO
75	1	22						19539	N07 W39	34	(BP	2	B	10	3	BXO
75	1	23	13439	N07 W50	36	600	2.0	19539	N07 W53	40	(AP)	3	M	50	4	BXO
75	1	24	13439	N07 W65	37	600	2.0									

MCMATH REGION 13440 CMP DATE 20.8

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	19	13440					19540	N08 E15	24	A					
75	1	20	13440	N09 E03	23	200	2.5									
75	1	21	13440	N08 W11	24	200	3.0									

MCMATH REGION 13437 CMP DATE 21.1

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	15	13437	S22 E59	20	100	1.5									

MCMATH REGION 13446 CMP DATE 21.2

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	24	13446	S19 W48	20	100	1.5									

MCMATH REGION 13447 CMP DATE 21.4

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	24	13447	N33 W45	17	100	1.0									
75	1	26	13447	N33 W80	26	100	1.0									

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MCMATH REGION 13434 CMP DATE 22.4 RETURN OF REGION 13394 ROTATION 2

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	15	13434	N13 E85	5	300	1.5									
75	1	16	13434	N13 E75	4	400	1.5									
75	1	17	13434	N14 E62	0	400	2.0									
75	1	20	13434	N14 E23	3	300	2.0									
75	1	21	13434	N15 E10	3	300	2.0									
75	1	23	13434	N15 W17	3	200	1.5									
75	1	24	13434	N15 W32	4	200	1.5									

MCMATH REGION 13441 CMP DATE 22.7

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	21	13441	N05 E15	359	500	3.0	19541	N05 E15	359	(BP)	2	R	10	4	BXO
75	1	22						19541	N05 W03	359	B		B	10	3	BXO
75	1	23	13441	N05 W14	0	400	2.5									
75	1	24	13441	N04 W28	0	300	1.5									

MCMATH REGION 13448 CMP DATE 23.0

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	24	13448	N33 W24	356	100	1.0									

MCMATH REGION 13444 CMP DATE 23.2

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	23	13444	S05 W07	353	100	1.0									

MCMATH REGION 13450 CMP DATE 23.8

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	26	13450	S10 W39	345	200	1.0									

MCMATH REGION 13438 CMP DATE 23.9 RETURN OF REGION 13404 ROTATION 2

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	17	13438	N10 E85	338	200	1.0									
75	1	20	13438	N10 E44	343	600	2.0									
75	1	21	13438	N09 E30	344	800	2.0									
75	1	22							N08 E17				B	10	2	BXO
75	1	23	13438	N08 E03	343	400	2.0		N08 E11				M	0	1	AXX
75	1	24	13438	N08 W12	344	400	1.5									
75	1	26	13438	N08 W40	346	400	1.5									
75	1	27	13438	N08 W53	346	400	1.0									
75	1	28	13438	N08 W66	347	200	1.0									
75	1	29						19544	N05 W65	333	AP					

MCMATH REGION 13451 CMP DATE 25.1

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	26	13451	N07 W22	328	200	1.5									

MCMATH REGION 13457 CMP DATE 25.3

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	28	13457	S23 W45	326	100	1.0									

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MCMATH REGION 13452 CMP DATE 25.4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	1	26	13452	S18 W18	324	200	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13449 CMP DATE 25.9

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	1	24	13449	N48 E15	317	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13445 CMP DATE 27.0 RETURN OF REGION 13397 ROTATION 2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	1	21	13445	N06 E76	298	200	1.5
75	1	23	13445	N04 E45	301	400	1.0
75	1	24	13445	N04 E30	302	300	1.0
75	1	25					
75	1	26	13445	N04 E04	302	500	2.5
75	1	27	13445	N04 W09	302	400	2.0
75	1	28	13445	N04 W23	304	300	1.5
75	1	30	13445	N03 W47	302	200	1.0
75	1	31	13445	N02 W60	301	200	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19543	N04 E12	307	(BP	3	B	20	1	AXX
	N05 E09				M	10	1	AXX

MCMATH REGION 13454 CMP DATE 27.0

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	1	27	13454	N23 W09	302	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13443 CMP DATE 28.2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	1	21	13443	S09 E88	286	700	1.5
75	1	23	13443	S09 E60	286	600	2.5
75	1	24	13443	S09 E46	286	700	2.5
75	1	26	13443	S10 E21	285	600	2.5
75	1	27	13443	S10 E07	286	500	2.0
75	1	28	13443	S10 W06	287	400	2.0
75	1	30	13443	S10 W33	288	300	1.5
75	1	31	13443	S10 W45	286	300	1.5
75	2	1	13443	S11 W58		300	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19542	S03 E58	289	AP					

MCMATH REGION 13458 CMP DATE 28.2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	1	28	13458	N06 W06	287	100	2.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13455 CMP DATE 29.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	1	27	13455	N24 E23	270	100	2.0
75	1	28	13455	N23 E11	270	100	2.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13456 CMP DATE 29.6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	1	27	13456	N19 E25	268	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

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MCMATH REGION 13462 CMP DATE 29.6

				CALCIUM	PLAGE	DATA				SUNSPOT	DATA					
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	30	13462	N35 W14	269	100	1.0									
75	1	31	13462	N36 W26	267	100	1.0									
75	2	1	13462	N36 W40		100	1.5									

MCMATH REGION 13467 CMP DATE 29.6

				CALCIUM	PLAGE	DATA				SUNSPOT	DATA					
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	3	13467	S16 W65		100	1.0									

Note: Region 13422 is mostly a new plage formed in the same location as old region 13384 of the previous rotation.
Region 13439 formed on the disk, in the location of old 13983.
No calcium spectroheliograms were secured at the McMath-Hulbert Observatory on January 3, 8, 9, 10, 18, 19, 22, 25 and 29, 1975.
No sunspot observations were made at Mt. Wilson Observatory on January 8, 27, 30 and 31, 1975.

DAILY CALCIUM PLAGE INDEX

JANUARY 1975

YR	MO	DAY	INDEX	YR	MO	DAY	INDEX	YR	MO	DAY	INDEX
75	1	1	4.7	75	1	11	8.5	75	1	21	7.6
75	1	2	5.3	75	1	12	8.7	75	1	22	*
75	1	3	*	75	1	13	9.8	75	1	23	4.2
75	1	4	5.7	75	1	14	8.8	75	1	24	3.5
75	1	5	7.9	75	1	15	10.2	75	1	25	*
75	1	6	10.7	75	1	16	9.6	75	1	26	3.7
75	1	7	8.3	75	1	17	7.7	75	1	27	2.5
75	1	8	*	75	1	18	*	75	1	28	1.9
75	1	9	*	75	1	19	*	75	1	29	*
75	1	10	*	75	1	20	8.1	75	1	30	1.6
								75	1	31	1.7

* NO OBSERVATIONS

SUDDEN IONOSPHERIC DISTURBANCES

JANUARY 1975

DAY	UNIVERSAL TIME START	END	MAX	IMP	WIDE SPREAD INDEX	NUMBER OF STATION REPORTS BY TYPE SWF	SCNA	SEA	SPA	LF-SPA	SES	SFD	KNOWN FLARE	McMATH REGION
03	0325	0456	0333	1-	3				2				0323	13404
03	0732E	0753	0745U	1-	1			1					0740E	13400
26	1710	1746	1713	1-	1								*	

PERIODS OF NO OBSERVATIONS:

DATE	TIME (UT) and STATION
01-11	0000-2400 A36
01	0000-2400 A37
03	1400-1733 UM (17 kHz)
04	1924-2017 UM (16 kHz)
05	0000-2400 A28
07	0000-2400 TN, 1007-1337 UM (16 kHz)
08	0000-2400 A19
09	0000-2400 A19, 0809-0920 UM (16 kHz), 1718-1800 TM
10	0000-2400 A29, 1400-1717 UM (17 kHz)
11	0000-2400 A28, 0000-2400 A29
12	0000-2400 A29
13	0000-2400 A32
14	0000-2400 A32, 1005-1330 UM (17 kHz)
15	2114-2119 TM
16	0000-2400 A28
17	1357-1713 UM (17 kHz)
19-20	0712-0145 BO
21	1003-1336 UM (16 kHz)
22	1905-1945 UM (17 kHz)
23	0000-2400 A28
24	1400-1745 UM (17 kHz)
29	1300-1815 MC
30	0000-2400 A28
31	0000-2400 A28, 1400-1730 UM (17 kHz)

STATIONS REPORTING FOR JANUARY 1975

AAVSO (A1) (SEA) (A1, A19, A21, A26, A28, A29, A30, A31, A32, A35, A36, A37, A40) (SES) (A31) (SWF)
BOULDER (BO) (SCNA, SEA)
DARMSTADT (DA) (SWF)
DEBRE ZEIT (DE) (SPA)
HERSTMONCEUX (HC) (SEA)
HIRAISO (HI) (SWF)
HOBART (TA) (SEA)
HUANCAYO (HU) (SWF)
INUBO (IN) (SPA)
JOHANNESBERG (JH) (SES)
MANILA (MA) (SPA)
MCMATH (MC) (SWF, SCNA)
PANSKA VES (PU) (SWF, SEA, SES)
POITIERS (PO) (SEA)
PRESTON (LO) (SEA)
SAO PAULO (UM) (SPA, SES)
ST CLOUD (SC) (SES)
TABLE MOUNTAIN (TM) (SPA, LF-SPA)
TORINO (TN) (SPA)
UPICE (UI) (SEA)

SIDS BY McMATH REGION

DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	18	19	20	21	22	23	24	25	26	27	28	29	30	31
REGION																																
40			1																													
04			1																													
X-RAY																																
UNKNOWN																																
NO FP																										1						

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JANUARY 1975

JAN 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS: CENTIMETRIC BAND START UT	CENTIMETRIC BAND END UT	CENTIMETRIC BAND INT.	DECIMETRIC BAND START UT	DECIMETRIC BAND END UT	DECIMETRIC BAND INT.	METRIC BAND START UT	METRIC BAND END UT	METRIC BAND INT.	DEKAMETRIC BAND START UT	DEKAMETRIC BAND END UT	DEKAMETRIC BAND INT.	SPECTRAL TYPE
01	0000	0919	MANI													
	0000	0735	CULG							0000	0045	1				IIIS
			CULG							0045	0301					IIIN,W
	0734	1520	DURN													
	1218	2115	SGMR													
	1430	2400	BOUL													
	1417	2346	HARV							1945	1946	1				IIIG
	2035	2400	CULG							2035	2230					IIIN,W
02	0000	0919	MANI													
	0000	0735	CULG							0150	0230					IIIN,W
			CULG				0514.5	0515	1	0514.5	0515	1				IIIG,U
	0734	1524	DURN													
	1218	2115	SGMR													
	1417	2346	HARV													
	1430	2400	BOUL													
	2036	2400	CULG							2040	2400	1				IIIN
			CULG							2125.5		1	2125.5		1	IIIB
	2220	2400	MANI													
03	0000	0735	CULG							0000	0736					IIIS,W
			CULG							0000	0736	1				N,RS,OP
			CULG							0406	0407	1				IIIG
			CULG							0442.5	0443.5	1				IIIG
			CULG							0446	0447	1				IIIG
			CULG							0523.5	0524.5	1				IIIG
			CULG							0621	0622	1				IIIG
			CULG				0651	0652	1	0650.5	0653	1				IIIGG
			CULG				0654	0656	1	0653	0657	2	0654	0656	1	IIIGG
	0000	0920	MANI										0654.2	0655.8	2	IIIG
	0734	1524	DURN													
	0829	1520	DWIN				0829	1520	1	0829	1520	1				IW
			DWIN							0918.5	0919.5	1				IIIG
			DWIN							0923.3	0923.7	1				IIIG
	1218	2115	SGMR													
	1417	2347	HARV													
	2036	2400	CULG							2036	2400					IIIS,W
	2220	2400	MANI													
			CULG				2233.5	2234	1	2232.5	2235	1				IIIG
	1430	2400	BOUL							2234.0	2242.2	1	2234.0	2242.2	1	IIIG
			BOUL							2312.6	2315.8	1	2312.6	2315.8	1	IIIG
			CULG							2355		2				RS,DP
04	0000	0732	CULG							0000	0732					IIIS,W
	0000	0920	MANI													
			CULG							0017.5	0633	1				N,RS,OP
			CULG							0019		2				RS,OP
			CULG				0302.5	0304	1	0302.5	0305.5	1				IIIG
	1219	2117	SGMR													
	0734	1524	DURN							1422.2	1422.3	1				IIIG
	1430	2400	BOUL							1717.7	1717.8	1	1717.7	1717.8	1	III
	1417	2345	HARV							1903	1904	3	1903	1904	3	IIIG
			BOUL							1903.1	1903.5	2	1903.1	1903.5	2	III
			BOUL							1927.8	1928.0	1	1927.8	1928.0	1	III
	2037	2400	CULG							2037	2400					IIIN,W
	2220	2400	MANI													
05	0000	0920	MANI													
			CULG							0315	0737	1				IS
	0000	0737	CULG							0315	0737					IIIS,W
			CULG							0315	0737	1				N,RS,OP
	0734	1449	DURN							0734 E	0810	1				I
	1219	2120	SGMR													
	1430	1600	BOUL							1433.5	1434.3	1	1433.5	1434.3	1	III
	1502	1524	DURN													
			BOUL										1521.2	1600.0	1	CONT
			BOUL										1630	1740	1	CONT
	1417	2349	HARV							1800	1801	3	1800	1801	3	IIIG
			HARV							1920	1921	1	1920	1921	1	IIIG
	1900	2400	BOUL										1950	2350	1	CONT
	2038	2400	CULG							2038	2400	1				IS
			CULG				2038	2307	1							IIIN
			CULG							2038	2400	1				IIIS
	2221	2400	MANI													
			CULG							2325	2336	1	2325	2336	1	IIIGG
06	0000	0737	CULG							0000	0737	1				IS
			CULG							0000	0737	1				IIIN
			CULG				0031	0036	1	0028	0036	2	0031	0036	1	IIIGG
	0000	0921	MANI										0032.8	0035.5	1	IIIG
			CULG							0520	0521	2				IIIG
			CULG							0522.5	0523.5	2	0522.5	0523.5	1	IIIG
			CULG							0715	0716.5	1				IIIG
			CULG							0722	0722.5	2				IIIG
			CULG							0736		1				IIIG,V,U
	0733	1524	DURN				0743.4	0757.5	3	0737.8	0747.9	1				IVP
	1219	2121	SGMR													
	1417	2349	HARV													

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JANUARY 1975

JAN 1975	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
06	1430	2400	BOUL													
	2222	2400	MANI													
	2038	2400	CULG							2309	2316					IIIN,W,U
07	0000	0738	CULG													
	0000	0922	MANI													
	0731	1530	DURN													
	0800	1454	WEIS													
	0923	1535	OWIN				0923	1536	1	0923	1536	1				IN
	1218	2121	SGMR													
	1417	2345	HARV													
	1430	2400	BOUL										1921.4	1921.7	2	III
	2039	2400	CULG													
	2222	2400	MANI													
08	0000	0922	MANI													
	0000	0739	CULG													
	0731	1530	DURN													
	0804	1507	OWIN													
	0810	1455	WEIS													
	1218	2122	SGMR													
	1417	2351	HARV													
	1430	2400	BOUL													
	2039	2400	CULG													
	2222	2400	MANI													
09	0000	0925	MANI													
	0000	0739	CULG							0124	0739					IIIN,W
			CULG							0656	0700	2				IIIGG
			CULG							0728	0729	2				IIIG
	0731	1530	DURN													
	0810	1345	WEIS							0814.7	0815.4	1				IIIG
	0823	0955	OWIN													
			WEIS							1024.0	1024.4	1				IIIG
			WEIS							1306.2	1306.5	2				IIIG
	1218	2123	SGMR										1306.3	1306.5	1	III
			WEIS							1333.6	1333.9	1				IIIG
			SGMR										1354.7	1355.1	1	III
	1415	1500	WEIS													
	1417	2345	HARV							1820	1903	2	1820	1903	2	IIIN
	1430	2400	BOUL							1820.5	1820.6	1	1820.5	1820.6	1	III
			BOUL							1847.2	1847.8	2	1847.2	1847.8	2	III
			BOUL							1855.8	1857.9	2	1855.8	1857.9	2	IIIG
			HARV							1856	1857	3	1856	1857	3	IIIG
			SGMR										1856.7	1857.1	2	III
			BOUL							1900.4	1903.2	2	1900.4	1903.2	2	IIIG
			HARV							1958	2000	3	1958	2000	3	IIIGG,V
			BOUL							1958.0	1959.5	3	1958.0	1959.5	3	IIIG
			SGMR										1958.3	1959.4	2	III
			HARV							2012	2015	3	2012	2015	3	IIIGG,V,U
			BOUL							2012.0	2015.5	3	2012.0	2015.5	3	III
			SGMR										2012.2	2020.2	2	V
			BOUL							2015.5	2030.0	1	2015.5	2030.0	1	CONT
	2039	2400	CULG							2121	2400	1				IIIN
	2222	2400	MANI													
			CULG							2255	2256	1				IIIG,U
			BOUL							2347.6	2347.8	1				III
			BOUL							2355.6	2356.2	1	2355.6	2356.2	1	IIIG
10	0000	0738	CULG							0000	0738	1				IIIN
	0000	0925	MANI													
			CULG				0246	0247	1	0246	0247.5	1				IIIG
	0731	1046	DURN													
	1217	2124	SGMR													
	1242	1531	DURN							1401.8	1402.1	2				IIIG
	0805	1502	WEIS							1401.8	1402.1	1				IIIG
	1417	2346	HARV							1611		2	1611		2	IIIG
	1548	2400	BOUL							1611.0	1611.6	2	1611.0	1611.6	2	III
	2040	2130	CULG							2040	2130					IIIN,W
	2223	2400	MANI													
	2230	2330	CULG							2240	2330					IIIN,W
11	0000	0925	MANI													
	0030	0730	CULG							0030	0730					IIIS,W
	0731	1530	DURN							1140	1530 D	1				IN
	0805	1505	WEIS							1340.7	1340.8	1				IIIB
	1217	2125	SGMR										1340.8	1341.2	2	III
	1430	2400	BOUL							1540.0	2245	1	1540.0	2245	1	CONT
	1417	2346	HARV							1705	2136	1	1705	2136	1	IIIN
			HARV							1915	1917	2	1915	1917	2	IIIGG
			HARV							1936	1937	1				IIIG
			CULG							2040	2115	1				IS
	2040	2300	CULG							2040	2300	1				IIIS
			CULG				2044	2045	1	2044	2046	2	2045	2046	1	IIIG,V,U
			HARV							2044	2045	3	2044	2046	3	IIIGG,V,U
			SGMR										2044.8	2059.2	1	IIIG
			CULG				2051	2054	1	2051	2054	2				IIIGG
			HARV							2051	2054	2	2051	2052	2	IIIGG
			HARV							2058	2101	3	2058	2101	3	IIIGG,V
			CULG				2058	2059	1	2058	2101	2	2059	2100	1	IIIGG,V,U

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JANUARY 1975

JAN 1975	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
11			HARV							2106	2107	2				IIIG
			HARV							2112	2114	1	2113		2	IIIG
	2223	2400	MANI													
12	0030	0709	CULG							0030	0400					IIIS,W
			CULG				0304	0304.5	1	0304	0305	2				IIIG,U
			CULG							0400	0730					IIIN,W
			CULG				0707	0708	1	0706	0709	2				IIIG,V
	0000	0925	MANI										0707.5	0708.3	3	III
	0713	0730	CULG							0713 E	0730	1				II
	0731	1045	DURN													
	0808	1300	WEIS													
	1057	1530	DURN													
	1217	2126	SGMR													
	1430	2400	BOUL							1443.6	1443.7	1	1443.6	1443.7	1	III
			BOUL							1705	2330	1	1705	2330	1	CONT
	1418	2351	HARV							1941	2223	2	1941	2125	2	IIIN
	2040	2400	CULG							2040	2400	1				IIIS,U
			CULG							2100	2400	1				IS
			CULG				2108	2112	1	2108	2112	1				IIIGG
			CULG							2129	2132	2	2129.5	2130.5	1	IIIGG
			HARV							2129	2131	3	2129	2131	3	IIIGG
			CULG							2221	2222	2				IIIG,U
	2223	2400	MANI													
			CULG							2250	2251	1				IIIG,U
13			CULG							0000	0331	1				IIIS
	0000	0331	CULG							0000	0331	1				IS
	0000	0925	MANI													
			CULG							0039.5	0040	2				IIIG
			CULG				0053	0054	1	0052	0055	2				IIIGG,V
			CULG				0227	0228	1	0227	0229	2				IIIG,U
	0500	0735	CULG							0500	0735	1				IS
			CULG							0500	0735	1				IIIS
			CULG				0549		1	0549		1				IIIB,U
			CULG							0639	0640.5	1				IIIG,U,V
	0731	1538	DURN							0731 E	1538 D	1				IN
	1008	1507	WEIS							1017.0	1506.0	1				IS
			WEIS							1204.0	1204.2	1				IIIB
	1417	2346	HARV							1418	2346 D	1				I
	1217	2128	SGMR										1418.6	1419.1	1	III
	1430	2400	BOUL							1515.3	1515.7	1	1515.3	1515.7	1	III
			SGMR										1515.4	1515.9	1	III
			HARV							1557	1558	3	1558		3	IIIG
			BOUL							1557.7	1558.4	2	1557.7	1558.4	2	IIIG
			SGMR										1557.9	1558.3	2	III
			BOUL							1600	2242	1	1600	2242	1	CONT
			HARV							1746	2005	1	1746	2005	1	IIIN
	2040	2331	CULG				2040	2331	1	2040	2331	1				IS
			CULG							2040	2331	1				IIIS
			CULG							2150.5	2154.5	2	2152	2154	1	IIIGG,V
			HARV							2151	2154	3	2151	2154	3	IIIGG,V
			BOUL							2151.7	2158.5	1	2151.7	2158.5	1	IIIG
			HARV							2157	2159	3				IIIGG
			CULG				2157	2158	1	2157	2158.5	2				IIIG
			HARV							2206	2207	2				IIIG
	2223	2400	MANI													
			HARV							2338	2339	2				IIIG
			HARV							2344		2				U
14	0000	0927	MANI													
	0104	0717	CULG							0104	0717	1				IS
			CULG							0104	0717	1				IIIS
			CULG				0257.5	0258	1	0256	0300	2				IIIGG,V
	0731	1541	DURN							0731 E	1541 D	2				IN
	0800	1507	WEIS							0800.0	1506.0	1				IS
			WEIS							0938.5	0941.2	2				IIIG
			WEIS							0942.3	0943.5	2				IIIG
			DURN				0942.5	0942.6	2	0942.5	0943.0	2				IIIG
			WEIS							1001.5	1002.5	1				IIIG
			WEIS							1203.0	1203.3	1				IIIG
			DURN							1203.2	1203.3	1				IIIG
			WEIS							1232.7	1232.8	1				IIIB
			WEIS							1302.2	1302.5	1				IIIB
	1417	2347	HARV							1417	2347 D	1				I
	1216	2129	SGMR										1425.4	1427.4	1	IIIG
			HARV							1426	1427	2				IIIG
			WEIS							1426.0	1426.2	1				IIIB
			HARV							1626	2038	1	1626	2038	1	IIIN
	1430	2400	BOUL							1626.5	2303	1	1626.5	2303	1	CONT
			HARV							2010	2012	3	2010	2012	3	IIIGG,V,U
			SGMR										2010.7	2011.7	2	III
			HARV							2015	2019	1				UNCLF
			CULG							2041	2400	1				IIIS
	2041	2400	CULG				2041	2400	1	2041	2400	1				IS
	2224	2400	MANI													
15			CULG							0000	0500	1				IIIS
	0000	0500	CULG				0000	0500	1	0000	0500	1				IS
			CULG							0202	0202.5	2				IIIG,U

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JANUARY 1975

JAN 1975	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
15			CULG				0212		1	0212		3	0212		1	IIIB
	0000	0927	MANI										0212.2	0212.5	3	III
			CULG							0630	0736	1				IIIS
	0630	0736	CULG				0630	0736	1	0630	0736	1				IS
	0731	1541	DURN							0731 E	1541 D	2				IN
	0802	1507	WEIS							0819.0	1457.0	1				IS
			WEIS							1055.8	1056.0	1				IIIB
			WEIS							1140.8	1141.0	1				IIIG
			WEIS							1305.8	1306.0	1				IIIG
			WEIS							1407.0	1407.3	3				IIIG
			DURN							1407.1	1409.9	3				IIIGG
			WEIS							1409.0	1409.8	2				IIIG
	1216	2130	SGMR										1409.2	1410.0	2	III
			WEIS							1416.0	1416.2	1				IIIG
	1430	2400	BOUL										1540	2318	1	CONT
	1417	2351	HARV							1720	1721	3	1720	1721	3	IIIG,U,V
			SGMR										1720.7	1721.0	1	III
			HARV							1748	2010	1	1803	2010	1	IIIN
			HARV							1938	2350	1				IN
			HARV							1944	1945	2	1944	1945	2	IIIG
			HARV							1959	2002	3	1959	2001	3	IIIGG
			SGMR										2000.0	2000.5	1	III
			CULG				2041	2215								IS,W
			CULG							2041	2400	1				IS
	2041	2400	CULG							2041	2400	1				IIIS
			HARV							2128	2130	2				IIIG
			CULG							2128.5	2129.5	2				IIIG
	2224	2400	MANI													
16	0000	0928	MANI													
			CULG							0134	0500	1				IIIS
	0134	0500	CULG				0134	0500	1	0134	0500	1				IS
			CULG							0250	0251	2				IIIG
	0630	0741	CULG				0630	0650	1	0630	0741	1				IS
			CULG							0630	0741	1				IIIS
	0731	1543	DURN							0731 E	1543 D	1				IN,OC
	0805	0821	WEIS													
	0825	1510	WEIS							0845.0	1428.0	1				IN
			WEIS							0856.9	0857.0	1				IIIG
	1400	2400	BOUL							1428.8	1429.6	1				III
			WEIS							1428.9	1429.1	3				IIIB
	1418	2358	HARV							1429		3				IIIB
			HARV							1542	1544	3	1542	1543	3	IIIG,V
			DURN							1542.2	1542.5	3				IIIG
			BOUL							1542.3	1543.6	2	1542.3	1543.6	2	IIIG
	1215	2131	SGMR										1542.5	1542.8	1	III
			HARV							1756	1757	3				IIIG
			BOUL							1756.5	1756.9	2	1756.5	1756.9	2	III
			BOUL							1802.4	1802.5	1	1802.4	1802.5	1	III
	2041	2332	CULG				2041	2130	1	2041	2331	1				IS
			CULG							2157	2332					IIIN,W
	2224	2400	MANI													
			HARV							2259	2348	1				IN
17	0000	0928	MANI													
	0102	0231	CULG				0102	0231	1	0102	0231	1				IS
			CULG							0102	0231	1				IIIN
			CULG							0108	0109	1				IIIB
			CULG							0404	0534	1				IIIN
	0404	0534	CULG							0404	0534	1				IS
			CULG							0445		1				IIIB
	0731	1543	DURN													
	0800	1513	WEIS							1205.3	1206.0	1				IIIG
			WEIS							1212.6	1213.3	1				IIIG
			WEIS							1301.2	1301.5	1				IIIB
			WEIS							1305.7	1306.3	2				IIIG
	1215	2132	SGMR										1305.8	1306.5	1	IIIG
			WEIS							1308.2	1309.3	2				IIIG,RS
			WEIS							1312.3	1312.8	2				IIIG
	1400	2400	BOUL							1500.4	1500.8	1	1500.4	1500.8	1	III
			BOUL							1639.9	1640.5	1	1639.9	1640.5	1	III
	1417	2346	HARV							1640	2047	2	1640	2047	2	IIIN
			BOUL							1644.8	1646.2	2	1644.8	1646.2	2	III
			HARV							1645	1646	3	1645	1646	3	IIIGG
			SGMR										1645.0	1645.8	1	III
			HARV							1858	1900	3	1858	1900	3	IIIGG,V,U
			SGMR										1858.8	1900.0	3	III
			BOUL							1858.9	1900.5	3	1858.9	1900.5	3	III
			BOUL							1920.5	1920.8	1	1920.5	1920.8	1	III
			HARV							1923	1924	3	1923	1924	3	IIIG,V
			BOUL							1923.0	1924.0	2	1923.0	1924.0	2	IIIG
			SGMR										1923.0	1923.9	2	III
			HARV							1943	1944	1	1943	1944	1	IIIG
			BOUL							1943.0	1943.8	1	1943.0	1943.8	1	III
			BOUL							2019.8	2020.0	1				III
			BOUL							2046.5	2047.0	1	2046.5	2047.0	1	III
			BOUL							2147.8	2148.1	1	2147.8	2148.1	1	III
			HARV							2157	2201	2	2158	2201	2	IIIGG
			BOUL							2157.2	2201.1	2	2157.2	2201.1	2	IIIG
	2202	2400	CULG							2202	2400	1				IIIN

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JANUARY 1975

JAN 1975	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
17			BOUL							2209.3	2209.5	1	2209.3	2209.5	1	III
			BOUL							2212.8	2213.5	1	2212.8	2213.5	1	III
			BOUL							2215.5	2216.0	1	2215.5	2216.0	1	III
			BOUL							2259.0	2259.3	1	2259.0	2259.3	1	III
			CULG							2348	2358	2	2348	2358	1	IIIGG
	2224	2400	MANI										2354.0	2354.4	3	III
			BOUL										2354.2	2354.6	1	III
18	0000	0200	CULG							0000	0200	1				IIIN
			CULG							0053	0054	1				IIIG
	0000	0928	MANI										0148.5	0151.5	1	IIIG
			CULG							0151	0153	2				IIIG
	0333	0530	CULG							0333	0530	1				IIIN
			CULG							0410		1				IIIB
			CULG							0435		1				IIIB
	0700	0742	CULG							0700	0742	1				IIIN
	0731	1543	DURN													
	0757	1334	WEIS							0910.0	0913.5	1				IIIGG
			WEIS							0917.6	0922.6	2				IIIG
			WEIS							0924.6	0929.7	2				IIIGG
			WEIS							0932.5	0934.0	1				IIIG,OP
			WEIS							0937.0	0937.2	1				IIIB
			WEIS							1327.5	1327.9	1				IIIG
			WEIS							1329.4	1332.8	1				IIIGG
	1214	2134	SGMR										1329.4	1332.7	1	IIIG
			SGMR										1412.7	1413.3	1	III
			SGMR										1419.8	1420.0	1	III
	1400	2400	BOUL							1619.3	1619.6	1	1619.3	1619.6	1	III
	1417	2351	HARV							1624	1625	3	1624	1625	3	IIIG,U
			BOUL							1624.1	1624.8	2	1624.1	1624.8	2	III
			SGMR										1624.1	1624.8	1	III
			BOUL							1711.2	1723.2	2	1711.2	1723.2	2	IIIG
			SGMR										1715.9	1716.4	1	III
			HARV							1716	1717	2	1716	1717	2	IIIGG
			BOUL							1802.4	1804.2	1	1802.4	1804.2	1	IIIG
	2042	2130	CULG													
	2224	2400	MANI													
			BOUL							2250.7	2251.5	1	2250.7	2251.5	1	IIIG
	2300	2400	CULG							2318	2400					IIIN,W
19	0000	0200	CULG							0000	0200					IIIN,W
	0330	0530	CULG							0330	0530					IIIN,W
	0000	0928	MANI										0634.3	0634.9	3	III
	0700	0730	CULG							0700	0730					IIIN,W
			CULG				0718	0719	1	0717	0729	2	0718	0719	2	IIIGG,V
	0730	1543	DURN													
	1400	2400	BOUL							1633.2	1633.5	1	1633.2	1633.5	1	III
	1417	2346	HARV							1636	1637	3	1636		3	IIIG,U
			BOUL							1636.8	1637.6	2	1636.8	1637.6	2	III
			HARV							1723	1724	3	1723	1724	3	IIIG
			BOUL							1723.9	1724.3	2	1723.9	1724.3	2	III
			HARV							1732		3	1732		3	IIIB
	1213	2135	SGMR										1732.2	1746.6	1	IIIG
			BOUL							1732.2	1732.6	1	1732.2	1732.6	1	III
			HARV							1746	1747	3	1746	1747	3	IIIG
			BOUL							1746.2	1747.0	1	1746.2	1747.0	1	III
			HARV							1755	1756	3	1755	1756	3	IIIG
	2222	2400	MANI													
	2044	2344	CULG							2325	2344					IIIN,W
20	0000	0932	MANI													
	0100	0230	CULG													
	0400	0530	CULG													
	0700	0743	CULG							0731						IIIB,W
	0730	1543	DURN							0900.1	0900.2	2				III
	0800	1517	WEIS							1007.8	1008.8	2				IIIG
			DURN				1008.2	1008.5	1	1008.0	1015.6	3				IIIGG
			WEIS							1010.4	1012.0	2				IIIG
			WEIS							1013.2	1016.0	3				IIIGG
			DURN							1030.0	1030.9	2				IIIGG
			DURN							1044.9	1045.0	3				IIIG
	1400	1700	BOUL													
	1417	2345	HARV													
			DURN							1505.0	1505.1	3				III
	1213	2135	SGMR										1912.9	1916.3	1	IIIG
	2000	2400	BOUL													
	2043	2244	CULG							2143	2244					IIIN,W
	2224	2400	MANI													
	2312	2400	CULG							2312	2400					IIIN,W
			CULG							2355		2				IIIB,V
21	0000	0200	CULG							0000	0200	1				IIIN
	0000	0932	MANI													
			CULG							0007	0008	1				IIIG
			CULG							0110	0111	1				IIIG
	0330	0743	CULG							0330	0532	1				IIIN
	0729	1545	DURN													
	0756	1519	WEIS													
	1212	2137	SGMR													
	1400	2400	BOUL													

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JANUARY 1975

JAN 1975	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
21	1417	2347	HARV													
	2043	2400	CULG							2052.5						IIIB,W
	2224	2400	MANI													
22	0000	0932	MANI													
	0000	0300	CULG							0041	0300					IIIN,W
	0430	0743	CULG							0430	0502					IIIN,W
	0728	1545	DURN													
	0757	1236	WEIS													
	1211	2139	SGMR													
	1246	1522	WEIS													
	1400	2400	BOUL													
	1418	2346	HARV													
	2044	2400	CULG													
	2224	2400	MANI													
23	0000	0932	MANI													
	0000	0300	CULG													
	0000	0030	BOUL													
	0430	0740	CULG													
	0728	1546	DURN													
	0925	1523	WEIS													
	1211	2140	SGMR													
	1400	2400	BOUL													
	1417	2346	HARV													
	2130	2400	CULG													
	2224	2400	MANI													
24	0000	0932	MANI													
	0000	0743	CULG													
	0000	0030	BOUL													
	0727	1549	DURN													
	0750	1525	WEIS													
	1210	2141	SGMR													
	1400	2400	BOUL													
	1417	2345	HARV													
	2045	2400	CULG													
	2224	2400	MANI													
25	0000	0932	MANI													
	0000	0030	BOUL													
	0000	0744	CULG							0116	0119	1				IIIG,V,U
	0727	1549	DURN													
	0750	1146	WEIS													
	1209	2143	SGMR													
	1406	2345	HARV													
	1456	1525	WEIS													
	1400	2400	BOUL							1948.7	1949.2	1	1948.7	1949.2	1	III
	2045	2400	CULG													
	2224	2400	MANI													
26	0000	0932	MANI													
	0000	0743	CULG													
	0000	0030	BOUL													
	0726	1549	DURN													
	0752	1528	WEIS													
	1209	2144	SGMR													
	1400	2400	BOUL													
	1405	2346	HARV													
	2045	2400	CULG													
	2224	2400	MANI													
27	0000	0932	MANI													
	0000	0715	CULG													
	0000	0030	BOUL													
	0726	1202	DURN													
	0752	1528	WEIS													
	1207	2145	SGMR													
	1400	1800	BOUL													
	1406	2346	HARV													
	1417	1555	DURN													
	2045	2400	CULG													
	2100	2400	BOUL													
	2224	2400	MANI													
28	0000	0932	MANI													
	0000	0743	CULG													
	0000	0030	BOUL													
	0723	1600	DURN													
	0743	1148	WEIS													
	1206	2145	SGMR													
	1218	1529	WEIS													
	1400	2000	BOUL													
	1402	2348	HARV													
	2045	2400	CULG													
	2224	2400	MANI													
	2300	2400	BOUL													
29	0000	0030	BOUL													
	0000	0932	MANI													

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JANUARY 1975

JAN 1975	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
29	0000	0745	CULG													
	0720	1606	DURN													
	0744	1530	WEIS													
	1206	2148	SGMR													
	1400	2400	BOUL													
	1401	1900	HARV													
	1927	2246	HARV													
	2045	2400	CULG													
	2224	2400	MANI													
30	0000	0932	MANI													
	0000	0745	CULG													
	0000	0030	BOUL													
	0718	1213	DURN													
	0745	1531	WEIS													
	1205	2149	SGMR													
	1244	1605	DJRN													
	1400	2400	BOUL													
	1402	2346	HARV													
	2045	2400	CULG													
	2224	2400	MANI													
31	0000	0932	MANI													
	0000	0745	CULG													
	0000	0030	BOUL													
	0716	1606	DJRN													
	0925	1535	WEIS													
	1204	2150	SGMR													
	1400	2400	BOUL													
	1401	2345	HARV													
	2045	2400	CULG													
	2224	2400	MANI													

The symbols used in connection with the spectral type in describing the important bursts are as follows:

B = Single burst
G = Small group (< 10) of bursts
GG = Large group (> 10) of bursts
C = Underlying continuum (particularly with type I)
S = Storm in the sense of intermittent but apparently connected activity
N = Intermittent activity in this period
U = U-shaped burst of Type III
RS = Reverse slope burst
DP = Drifting pairs
DC = Drifting Chains
H = Herringbone
W = Weak
P = Pulsations
CONT = Continuum
UNCLF = Unclassified activity

SELECTED SOLAR EVENTS

JANUARY 1975

Culgoora

UT Date 1975. JANUARY	HELIOGRAPH EVENT							Spectral Type	REMARKS
	Start (UT)	End (UT)	Freq. (MHz)	Positions		Polar-ization	Inten-sity (1-3)		
				Central Dist. ($R_\odot$)	Position Angle (Deg.)				
03	0446	0448	160	0.3	70	0	1 }		
			80	0.4	70	0	2 }	IIIG	*
			43.25	0.4	70	-	1 }		
13	2300	0500	160	0.5	60	R	1-2	IS }	Persisted with varying intensity to January 17
			80	0.7	60	0	2	IS }	
			43.25	0.9	50	-	1	IIIS}	
18	0151	0153	160	1.1	300	0	1 }		
			80	1.4	310	0	2 }	IIIG	*
			43.25	1.7	330	-	2 }		

Days without Heliograph observations: 26, 27

* Other type IIIs observed at same position during day.

COSMIC RAY INDICES
(Neutron Monitors)
JANUARY 1975

JAN 1975	THULE Average cts/hr	ALERT Average cts/hr	DEEP RIVER Average cts/hr	CALGARY Average cts/hr	SULPHUR MT Average cts/hr	KIEL Average cts/hr	CLIMAX Average cts/hr	TOKYO Average cts/hr
1	4438.8	7357.2	6878.8	11616.4	8713.8	6198.7	4155.9E*	3551.2
2	4458.5	7391.2	6885.3	11668.9	8736.7	6209.8	4166.4E	3557.0
3	4468.2	7404.3	6904.2	11698.1	8783.6	6216.5	4172.2E	3557.3
4	4428.2	7354.4	6877.0	11636.8	8737.4	6194.6	4153.8E	3552.8
5	4412.0	7309.6	6850.0	11570.1	8686.8	6168.8	4144.4E	3548.7
6	4409.5	7311.1	6837.0	11520.8	8672.6	6166.1	4129.2E	3526.2
7	4357.5	7204.0	6741.3	11344.4	8498.9	6111.4	4082.4E	3519.0
8	4363.8	7212.0	6707.4	11351.0	8549.6	6110.5	4066.2E	3489.5
9	4423.9	7347.8	6790.8	11504.6	8643.7	6156.5	4134.0E	3514.8
10	4463.7	7390.4	6837.6	11635.6	8735.2	6184.2	4162.6E	3538.8
11	4491.6	7439.3	6886.5	11726.9	8785.5	6222.7	4184.0E	3553.7
12	4530.3	7508.1	6958.5	11743.3	8807.4	6269.5	4182.6E	3565.5
13	4456.3	7386.0	6880.5	11602.8	8675.1	6222.4	4143.6	3542.3
14	4450.0	7378.2	6876.0	11610.0	8688.2	6187.6	4136.9	3541.2
15	4415.5	7311.2	6863.5	11519.4	8579.6	6165.7	4104.2	3513.3
16	4389.0	7264.0	6811.2	11469.7	8551.3	6120.3	4080.4	3515.5
17	4372.3	7260.0	6802.8	11401.0	8527.2	6136.3	4080.8	3525.3
18	4391.5	7276.9	6820.4	11480.4	8567.3	6158.9	4095.4	3538.7
19	4420.0	7320.7	6854.5	11545.4	8601.0	6183.3	4119.9	3549.7
20	4437.8	7346.4	6897.6	11609.7	8676.8	6200.0	4143.4	3554.1
21	4467.6	7393.5	6914.0	11702.6	8729.7	6233.8	4171.2	3554.2
22	4485.0	7436.9	6931.5	11730.6	8753.0	6256.3	4182.6	3558.9
23	4500.9	7459.0	6959.7	11756.1	8788.3(20)	6299.8	4190.7	3551.6
24	4495.8	7437.5	6938.3	11751.0	8817.2(12)	6271.6	4190.2	3540.4
25	4510.9	7456.8	6963.6	11798.7	8813.6	6284.1	4180.8	3552.8
26	4520.7	7454.0	7005.3	11858.4	8871.4	6277.7	4207.2	3553.7
27	4531.0	7464.5	6981.5	11857.4	8867.6	6302.8	4216.2	3556.7
28	4533.5	7459.5	6966.0	11838.5	8878.4	6334.2	4227.1	3565.9
29	4522.7	7448.0	6969.8	11868.6	8881.1	6312.6	4218.5	3559.5
30	4539.0	7460.9	6979.1	11859.2	8883.2	6282.7	4212.1	3559.6
31	4535.3	7454.7	6973.4	11873.3	8907.6	6287.4	4225.7	3565.0
MEAN	4458.7	7377.4	6888.5	11650.0	8722.9	6217.0	4156.8	3544.3

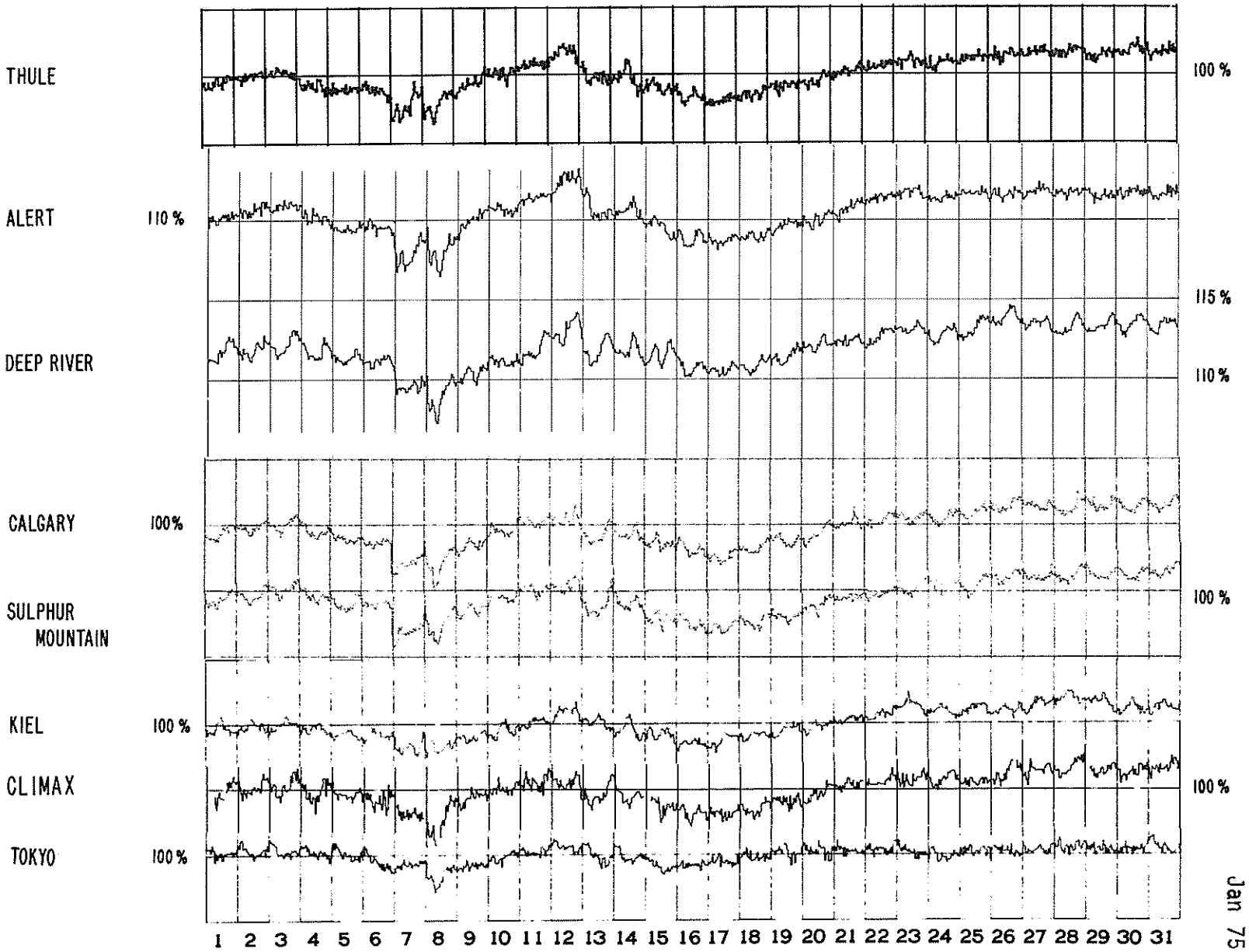
( ) Number of hours for which data are available if less than 24.
Asterisk indicates sum of both sections at Climax is less than 40 hours.

Thule, Alert, Calgary, Sulphur Mountain, Kiel and Climax Scaling Factors = 100.
Deep River Scaling Factor = 300.
Tokyo Scaling Factor = 128.

N: One section normalized by multiplicative factor.
E: One section estimated from sections ratio.

COSMIC RAY INDICES
(Neutron Monitors)

JANUARY 1975

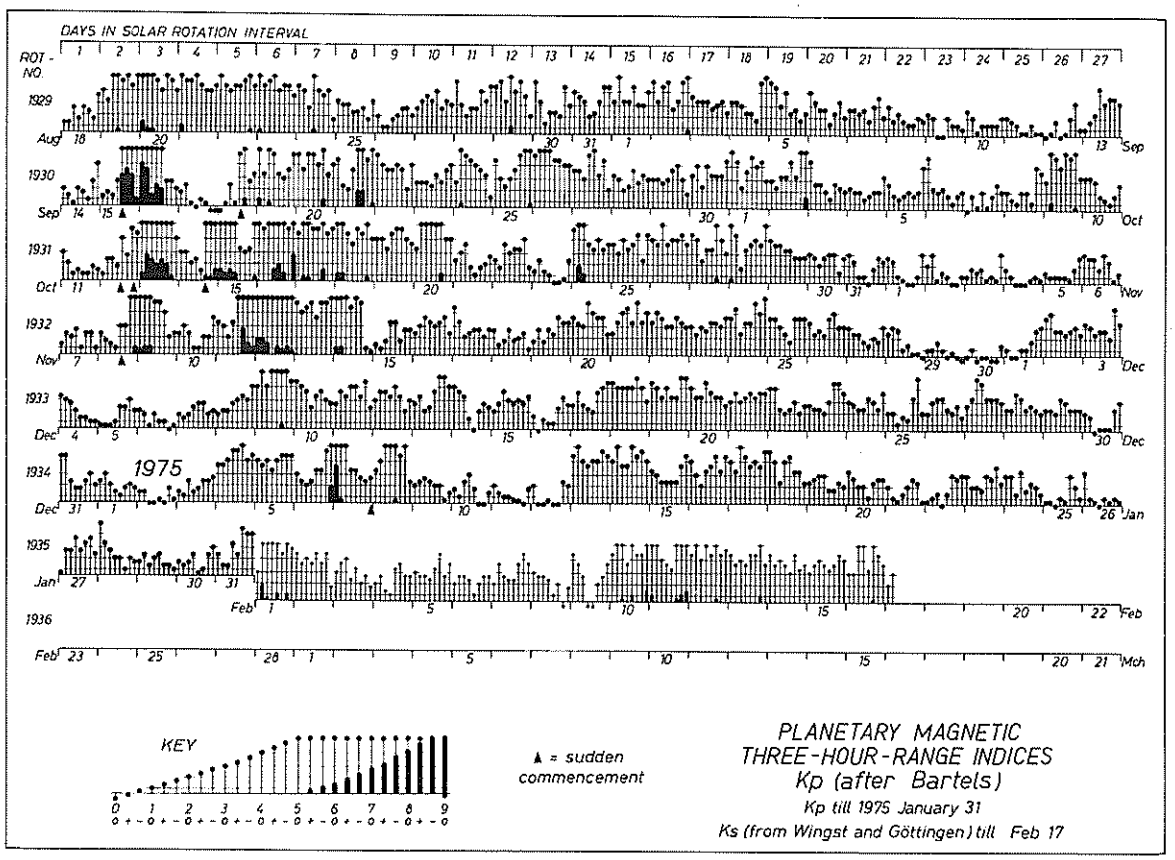


GEOMAGNETIC ACTIVITY INDICES

JANUARY 1975

Day	Three-Hour Range Indices Kp									Prel Ci	Cp	Ap	aa			
	1	2	3	4	5	6	7	8	Sum				N	S	M	
1	2+	3	2	1+	1	2-	2	2-	15	0.3	0.4	7	17	18	20 15	
2QQ	1+	1+	0+	0+	1-	0+	2-	1-	7-	0.2	0.1	4	8	6	6 8	CC
3	1+	1	2+	1+	2-	2+	2+	3-	15	0.5	0.4	7	13	21	14 21	
4 D	4-	4-	4	5-	5-	5	4	4+	34	1.5	1.3	32	64	54	44 75	
5	4	4-	4	3+	4	4+	4+	4+	32	1.3	1.2	27	52	39	36 55	
6	3	2+	2	2+	3+	3+	5-	6+	27+	1.3	1.2	26	46	35	19 62	
7 D	8-	5+	5	3+	3+	3-	2+	3-	32+	1.4	1.5	44	50	42	70 22	
8 D	3+	4	5	5	5+	4+	5	2+	34+	1.6	1.4	36	50	91	80 61	
9	2	2+	3-	2+	2	2	1-	1+	15+	0.4	0.4	7	18	14	17 16	
10 Q	2-	1	2+	3	2-	0+	0+	1+	12-	0.1	0.3	6	12	12	18 7	KK
11QQ	2	1+	1	1	1-	1-	0+	2-	9-	0.2	0.1	4	8	9	10 7	CC
12QQ	2	0+	0+	1-	0+	0+	2+	2	8+	0.2	0.1	4	7	10	7 10	C
13 D	4+	5	4	4-	4	4	5-	4+	34	1.5	1.3	32	47	59	53 53	
14 D	4	5	4-	4-	5	4+	5-	4	34+	1.5	1.3	33	52	57	47 62	
15	3+	3	2+	2+	2+	2+	4-	4+	24-	0.9	0.9	15	27	36	25 37	
16	4	3	2	3+	4-	4+	3+	4+	28	1.3	1.1	21	41	47	35 53	
17	4	3+	5	4+	4-	4	4-	5-	33-	1.2	1.3	29	50	41	42 49	
18	5-	4	2+	4	4+	3+	3+	2+	28+	1.2	1.1	22	41	28	34 35	
19	2+	3-	3	3	2-	2-	2+	2	19-	0.6	0.6	10	18	24	25 16	
20	3+	3-	2	2	1	2+	3-	3-	19-	0.5	0.6	10	17	17	15 20	
21 Q	2	1	1-	1+	2	3-	2+	1-	13-	0.3	0.3	6	13	14	10 18	
22 Q	1-	1	1+	0+	1+	3	3-	3	13+	0.5	0.4	8	19	13	8 24	
23	3	2	2	2-	3	3-	4-	2+	20+	0.9	0.7	12	29	21	19 32	
24	3	3	1+	3+	2-	2+	2	1+	18	0.5	0.6	10	20	15	19 17	
25QQ	1-	1-	0+	1	1-	3	2	1	9+	0.4	0.2	5	11	10	7 15	KK
26QQ	3+	1	1-	0+	1	1-	1	1-	9-	0.2	0.2	5	8	9	9 8	C
27	1-	3-	3-	4-	3-	3+	4-	2+	22-	1.0	0.8	14	25	35	26 34	
28	5-	3+	3-	2	2	1	2	2-	19+	0.7	0.7	12	21	27	32 17	
29 Q	2-	2+	1+	2	2+	1+	1+	1	13+	0.2	0.3	6	10	14	13 11	K
30 Q	2-	1+	2-	2+	1-	1	2+	3	14	0.5	0.4	7	15	18	14 19	
31	2+	1+	1+	3+	2+	4+	4	4	23	1.0	0.9	16	39	42	21 61	
									MEAN	0.77	0.71	16	27.4	28.3	27.9	

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

	1974											1975
DAY	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
1	13	20	17	9	28	10	6	24	28	6	6	7
2	12	18	15	18	18	12	22	32	30	5	15	4
3	8	20	39	24	19	9	35	16	12	6	15	7
4	7	10	35	34	9	31	24	20	8	3	9	32
5	8	18	18	35	6	74	21	19	10	5	7	27
6	7	20	26	6	6	130	20	14	11	10	4	26
7	10	13	18	15	3	15	22	12	6	7	8	44
8	5	17	13	13	6	36	16	7	10	21	13	36
9	4	33	16	11	7	15	16	5	39	39	42	7
10	14	30	28	3	15	20	16	6	10	10	20	6
11	30	32	19	5	32	14	10	4	6	48	21	4
12	40	15	3	5	29	23	5	6	17	70	18	4
13	20	10	7	4	21	12	6	16	86	36	22	32
14	12	16	5	10	18	23	5	9	30	38	13	33
15	4	3	4	30	37	10	4	73	50	10	14	15
16	7	42	4	26	16	10	6	88	68	16	8	21
17	11	9	6	38	15	8	6	3	47	14	18	29
18	1	3	46	24	10	6	10	19	43	8	28	22
19	4	2	39	18	13	6	40	34	29	14	27	10
20	12	23	46	18	18	11	46	35	41	22	21	10
21	23	68	35	18	7	9	39	43	10	24	19	6
22	14	39	31	22	8	8	37	24	15	18	14	8
23	44	42	29	25	7	82	36	16	5	16	17	12
24	29	34	19	39	8	51	26	26	38	26	14	10
25	34	28	20	14	10	22	13	30	22	19	12	5
26	28	20	21	11	40	20	7	38	28	17	12	5
27	26	22	19	14	54	24	18	25	25	9	21	14
28	27	18	22	10	26	18	20	14	29	6	12	12
29		34	19	7	19	13	31	16	18	3	11	6
30		20	16	17	15	8	17	21	12	2	6	7
31		24		30		6	21		8		14	16
MEAN	16	23	21	18	17	24	19	23	26	18	15	16

HOURLY EQUATORIAL Dst VALUES (PROVISIONAL)

JANUARY 1975

NASA/GODDARD SPACE FLIGHT CENTER

(Time-UT)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	3	2	1	0	-1	2	5	6	-1	-1	3	3	1	3	5	4	2	2	2	1	-1	2	1	-1
2	0	1	3	4	7	9	11	10	11	13	14	12	10	8	6	9	11	12	12	13	13	12	11	11
3	12	17	26	28	29	29	32	30	16	13	18	13	11	8	5	7	8	10	15	20	21	21	25	22
4	16	16	13	13	14	9	9	6	6	0	5	8	10	4	-6	-19	-14	-12	-11	-8	-12	-11	-9	-15
5	-15	-11	-7	-11	-6	-5	-8	-9	-16	-12	-2	-2	-3	-6	-8	-9	-9	-10	-5	-5	-15	-13	-10	-7
6	-6	-5	-6	-3	-1	1	0	0	3	4	7	6	1	0	0	1	3	-1	-5	-9	3	-8	-11	-13
7	-30	-35	-38	-48	-39	-35	-42	-32	-26	-17	-17	-19	-19	-19	-18	-25	-22	-16	-12	-8	-12	-17	-14	-1
8	6	11	15	17	8	18	3	7	9	8	4	3	-11	-16	-17	-20	-20	-24	-33	-24	-17	-16	-11	-12
9	-7	-5	-6	-7	-6	-6	-6	-5	-6	-5	-3	-4	-6	-5	-6	-8	-7	-5	-4	-7	-8	-9	-11	-11
10	-10	-11	-11	-11	-6	-7	-7	0	1	0	-1	0	0	1	0	-2	-1	-2	-4	-6	-7	-9	-7	-5
11	-2	-1	-4	-10	-9	-8	-5	-3	-1	0	1	2	2	4	0	-5	-8	-7	-5	-3	0	3	3	4
12	4	2	0	-2	-1	2	5	8	6	7	4	5	5	7	12	13	15	16	20	24	24	20	22	29
13	30	18	13	13	7	9	12	3	-10	-24	-19	-12	-10	-7	-10	-17	-11	-14	-15	-12	-17	-25	-24	-18
14	-11	-9	-12	-13	-7	-10	-8	-6	-2	-6	-7	-6	-2	-6	-5	-18	-28	-33	-29	-31	-32	-35	-31	-28
15	-27	-21	-18	-16	-12	-11	-6	-5	-2	1	-5	-3	2	0	6	10	7	2	-1	0	-4	-26	-35	-35
16	-26	-19	-14	-11	-11	-3	-3	-2	0	5	4	3	-7	-11	-17	-19	-16	-16	-14	-16	-20	-17	-18	-20
17	-22	-17	-13	-16	-12	-9	-7	-9	-13	-6	-5	-5	-5	-7	-5	-3	-6	-9	-12	-13	-15	-14	-17	-22
18	-26	-19	-15	-14	-11	-11	-7	-6	-5	-3	-5	-4	-4	-7	-5	-7	-6	-4	-5	-10	-14	-13	-7	-8
19	-5	-3	-3	-5	-4	-4	0	4	4	3	-2	0	1	0	2	6	6	0	-3	-4	-7	-6	-7	-8
20	-7	-5	-3	-5	-4	0	4	6	12	14	15	13	11	9	8	6	6	4	3	-1	0	-3	-7	-7
21	-5	-5	-4	-5	-5	-2	3	4	4	9	9	8	6	5	5	4	7	3	1	-2	-3	1	0	-2
22	-3	-2	-1	0	1	3	7	10	13	14	16	15	12	11	9	10	7	1	-3	-3	1	1	-7	-12
23	-11	2	0	2	6	11	17	13	13	14	18	19	17	16	14	15	15	10	6	-6	0	8	8	2
24	-2	1	3	5	9	11	14	12	10	7	8	11	9	10	7	7	4	0	-2	-3	-2	1	5	5
25	6	8	6	5	7	6	6	7	11	12	14	18	23	21	20	20	19	16	14	12	9	13	14	11
26	7	10	12	17	18	15	13	13	17	19	19	16	13	14	16	19	21	19	19	18	18	16	16	18
27	23	33	37	41	40	43	25	22	17	9	3	1	1	3	7	9	2	4	1	-9	-9	-9	-5	-1
28	-6	-1	-1	3	7	5	3	0	3	4	4	6	6	2	1	3	5	4	2	2	2	7	10	12
29	18	22	19	23	25	28	30	25	21	20	15	8	5	7	13	15	16	13	9	9	10	11	13	15
30	19	23	26	26	25	22	16	17	18	15	17	23	22	22	21	25	29	25	21	18	15	10	10	9
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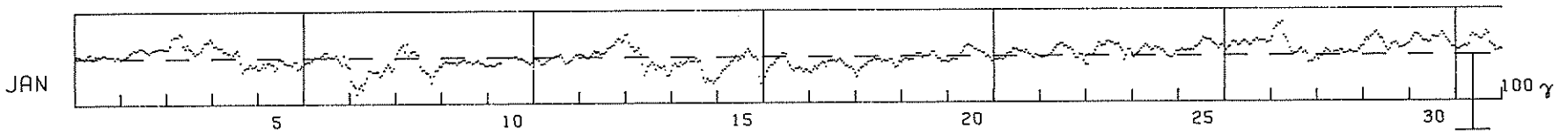


PRINCIPAL MAGNETIC STORMS

JANUARY 1975

OBS. 2 letter IAGA code	GEOMAGNETIC LATITUDE	COMMENCEMENT DAY	hr min (UT)	TYPE	SC - AMPLITUDES D(')	H(γ)	Z(γ)	MAXIMUM 3 HOUR - INDEX K DAY(3 HOUR PERIOD)	K	RANGES D(')	H(γ)	Z(γ)	UT END DAY	HOUR
CO	64.6N	3	08--	..	..	..	..	05(4,5)	7	234	1640	1150	05	23
NE	55.1N	3	19--	..	..	..	..	04(3,4,5,6)	5	27	94	70	05	24
HY	7.6N	3	1300	..	..	..	..	04(6)	6	5	128	24	05	23
GU	4.0N	3	2204	..	..	..	..	04(4)	4	0	100	10	04	20
HU	0.6S	3	1535	..	..	..	..	04(6,7)	5	12	222	47	05	22
KG	56.5S	3	06--	..	..	..	..	04(6)	6	--	--	--	05	23
SI	60.0N	4	0727	SC	-14.7	+36.3	+27.2	04(5)	6	40	380	290	05	23
WI	54.2N	4	10--	..	..	..	..	04(6) 05(7,8)	6	35	195	60	05	23
HR	33.7S	4	05--	..	..	..	..	04(6)	5	28	95	93	05	03
GN	43.2S	4	06--	..	..	..	..	07(1) 08(4,5,7)	6	19	130	150	09	02
CO	64.6N	6	10--	..	..	..	..	06(4,5,7,8) 07(1,3,5)	6	204	1510	760	07	13
SI	60.0N	6	11--	..	..	..	..	07(3)	-	--	650	470	07	13
NE	55.1N	6	1957	SC*	4	9	3	07(1)	7	63	130	166	07	20
WI	54.2N	6	15--	..	..	..	..	06(8) 07(1)	7	47	275	85	07	09
FR	49.6N	6	13--	..	..	..	..	07(1)	6	33	134	39	07	21
BD	48.9N	6	1958	SC*	- 1	28	- 8	07(7)	7	47	133	52	07	18
TU	40.4N	6	1958	SC	- 1	+28	+ 2	06(8) 07(1)	6	28	195	30	09	01
SJ	29.9N	6	1430	..	..	..	..	07(1)	6	8	76	40	07	16
AL	9.5N	6	1956	SC	- 0.7	29	- 9	06(8)	5	7	116	47	07	16
HY	7.6N	6	1000	..	..	..	..	07(1)	5	7	115	14	07	21
HY	7.6N	6	1957	SI	- 0.5	+31	- 3	--	-	--	--	--	--	--
GU	4.0N	6	1957	SC	--	20	-10	07(1)	6	--	--	--	07	17
AN	1.5N	6	1956	SC	- 1.3	38	21	--	-	7	123	78	07	16
HU	0.6S	6	1100	..	..	..	..	06(7,8)	5	11	262	48	08	23
TV	1.1S	6	1956	SC	0.3	30	38	--	-	5	111	98	07	16
HR	33.7S	6	1957	SC	+ 2	+36	+21	06(8) 07(1) 08(7)	6	33	138	115	08	22
CO	64.6N	7	2321	SC*	+ 9	+45	+14	08(4)	8	193	2170	980	09	02
SI	60.0N	7	2322	SC*	+ 4.6*	+ 6.8*	- 2.9*	08(3)	-	--	--	370	09	01
NE	55.1N	7	2321	SC*	1	13	3	08(3)	6	47	198	121	09	02
WI	54.2N	7	2322	SC*	- 2 *	+20	0	08(7)	7	37	225	50	08	22
FR	49.6N	7	2322	SC*	+ 3	+17	- 5	08(3)	5	17	125	29	08	22
BD	48.9N	7	2323	SC*	- 2	14	- 3	08(3)	6	26	129	32	09	15
SJ	29.9N	7	2322	SC	--	--	--	--	4	--	--	--	08	21
AL	9.5N	7	2322	SC	- 0.5	11	- 5	07(1)	6	5	135	29	08	22
HY	7.6N	7	0024	SI	- 1.7	+58	- 1	--	-	--	--	--	--	--
HY	7.6N	7	2321	SC	- 0.3	+12	- 1	08(3,4,6,7)	5	5	144	19	08	22
GU	4.0N	7	2322	SC	--	20	-05	08(1)	5	0	120	30	08	23
AN	1.5N	7	2322	SC	- 0.7	13	8	--	-	6	166	53	08	22
TV	1.1S	7	2322	SC	0.1	11	12	--	-	4	185	123	08	22
KG	56.5S	7	2323	SC	--	--	--	08(7)	6	--	--	--	08	22
HY	7.6N	8	0236	SI	- 1.0	+34	- 3	--	-	--	--	--	--	--
CO	64.6N	12	17--	..	..	..	..	14(5)	7	170	1670	820	15	03
NE	55.1N	12	1951	..	..	..	..	14(3,5)	5	28	162	128	15	06
HY	7.6N	12	1700	..	..	..	..	14(7)	5	5	106	25	14	23
GU	4.0N	12	1843	..	..	..	..	13(1)	5	0	130	30	15	18
HU	0.6S	12	1715	..	..	..	..	13(6)	6	8	231	57	14	23
HR	33.7S	12	19--	..	..	..	..	13(3,6,7,8)	5	20	112	70	15	00
GN	43.2S	12	17--	..	..	..	..	13(1,5) 14(1,5,6) 15(8) 16(5,6) 17(6)	5	22	90	100	19	17
KG	56.5S	12	17--	..	..	..	..	14(7)	6	--	--	--	18	18
WI	54.2N	13	01--	..	..	..	..	13(7) 14(7)	6	35	165	50	15	02
BD	48.9N	13	01--	..	..	..	..	13(2)	5	24	120	37	15	15
HY	7.6N	15	1430	..	..	..	..	16(6)	5	4	93	30	18	16
NE	55.1N	16	10--	..	..	..	..	17(1,3,4) 18(5)	5	32	99	89	18	18
BD	48.9N	16	14--	..	..	..	..	17(2)	5	24	90	37	19	14
HY	7.6N	27	0300	..	..	..	..	27(3)	4	3	115	11	27	21
CO	64.6N	31	10--	..	..	..	..	01(4)	7	198	1370	860	02	16
NE	55.1N	31	1105	..	..	..	..	31(6) 1(3,4)	5	33	112	160	02	18
BD	48.9N	31	11--	..	..	..	..	31(6)	5	22	103	46	03	07
HY	7.6N	31	0700	..	..	..	..	31(6,7) 01(5)	5	5	120	19	02	23
GN	43.2S	31	10..	..	..	..	..	31(6,7) 01(5)	5	19	80	100	02	16
KG	56.5S	31	09--	..	..	..	..	01(5)	5	--	--	--	02	22

Reports were received from the following observatories:

College, Newport, Fredericksburg, Tucson, Honolulu, Hyderabad, Annamalainagar, Trivandrum, Gnangara
Sitka, Witteveen, Boulder, San Juan, Alibag, Guam, Huancayo, Hermanus, Port-aux-Francais

SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS

JANUARY 1975

PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS (by Dr. A. Romana)

The meaning of the station symbols is given in the IAGA-Bulletins nr. 12 and 32. Times of ssc and si are mean values. If given by ten or more stations they are underlined.

Sudden commencements followed by a magnetic storm or a period of storminess (ssc)

06 1957 A: IK HU; B: SZ PP DU; C: KA (si: A: LG; B: EB SS)

07 2322 A: OT TL FR; B: SI WN FU IK EB HU PP CZ KG; C: NI DB KA SS DU

Sudden impulses found in the magnetograms (si)

07 0027 A: SS HU; B: EB CI PP; C: KA (bps: B: WN)

Solar-flare effects (sfe)

Effects confirmed by ionospheric or solar observations are underlined.

29 1251 - 1327 NI

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

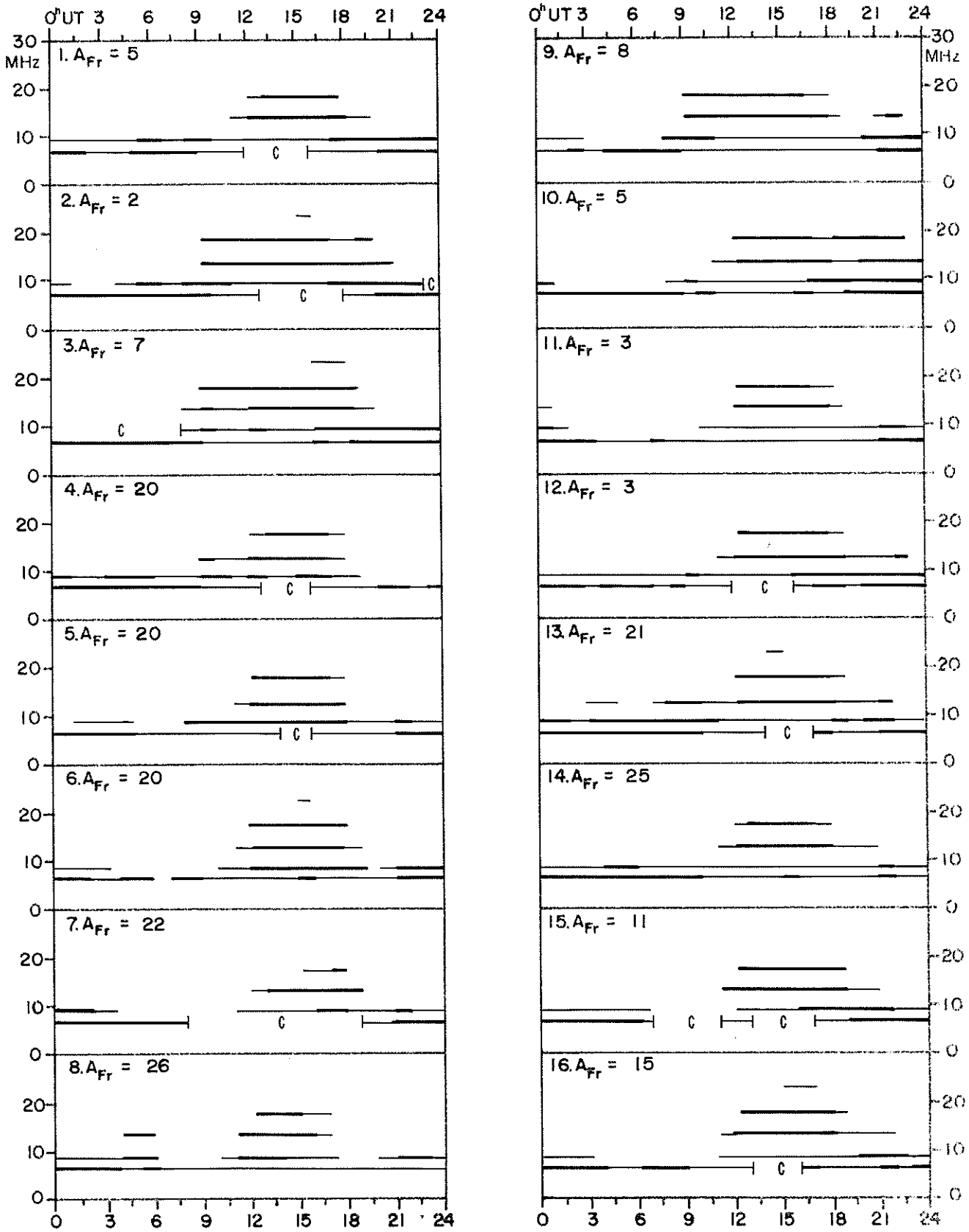
JANUARY 1975

North Atlantic

JAN 1975	WHOLE DAY INDICES NORTH ATLANTIC	ADVANCE FORECASTS (JC-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC 6-HOURLY QUALITY FIGURES 00 TO 06	06 TO 12	12 TO 18	18 TO 24	SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF 02	08	14	20	GEOMAGNETIC INDICES K_{FR} HALF DAY (1)	(2)	A_{FR} OBSERVED
01	6−	6	6o	5o	5+	6o	5	5	5	5	2	1	5
02	6−	6	6−	6−	6o	6−	6	6	6	6	1	1	2
03	6−	6	6−	4+	7o	6+	5	6	6	6	2	2	7
04	6−	6	6o	4−	7−	6−	5	5	5	4	3	(4)	20
05	5o	5	5o	3+	5o	6+	4	4	5	5	3	(4)	20
06	5+	5	6o	4−	6−	5o	5	5	5	5	2	(4)	20
07	4+	5	4+	3−	5o	5+	5	4	4	5	(4)	2	22
08	4+	5	5o	4−	5+	4o	4	4	4	4	(4)	(4)	26
09	5o	4	4+	5o	6−	5+	4	4	5	5	3	1	8
10	6−	5	5o	5o	6+	6−	5	6	5	5	2	0	5
11	6−	5	5+	6−	6+	5+	5	5	6	5	1	1	3
12	6−	5	5+	6−	6+	5+	5	5	5	5	1	1	3
13	5+	5	5o	5o	6+	5o	5	5	5	5	(4)	(4)	21
14	5+	5	5+	4+	6o	5o	4	4	4	4	(4)	(4)	25
15	5+	5	5−	4o	6o	6o	4	4	5	5	3	3	11
16	5o	5	6−	4−	5o	5o	4	5	5	5	3	3	15
17	5−	5	5o	4−	5+	5+	5	5	4	5	(5)	3	28
18	5+	5	5+	6−	5o	5+	5	5	5	5	(4)	3	19
19	5o	6	5−	5−	6−	5+	5	5	5	5	3	1	8
20	5o	6	5o	4+	6−	5o	5	5	5	6	2	2	8
21	6−	6	5−	6−	6o	6−	5	5	5	6	1	1	4
22	5+	5	5o	5−	6−	6−	6	5	6	6	1	2	4
23	6−	6	5+	5+	6+	6−	6	5	5	6	2	3	10
24	6o	6	6−	6o	6+	6o	6	5	5	6	3	1	10
25	6−	6	6−	6o	6+	5+	6	6	6	6	1	2	4
26	6−	6	5+	6−	6+	6−	6	6	5	5	2	1	4
27	6−	6	6−	5o	6−	6o	6	6	5	5	3	3	12
28	6−	6	6−	5+	6o	5+	5	5	5	6	3	1	9
29	5+	6	5+	4+	6−	5+	5	5	5	6	2	1	6
30	5+	6	5+	5−	5+	6−	5	5	5	6	2	2	7
31	5+	6	6−	5o	6−	5+	5	5	5	5	2	3	11

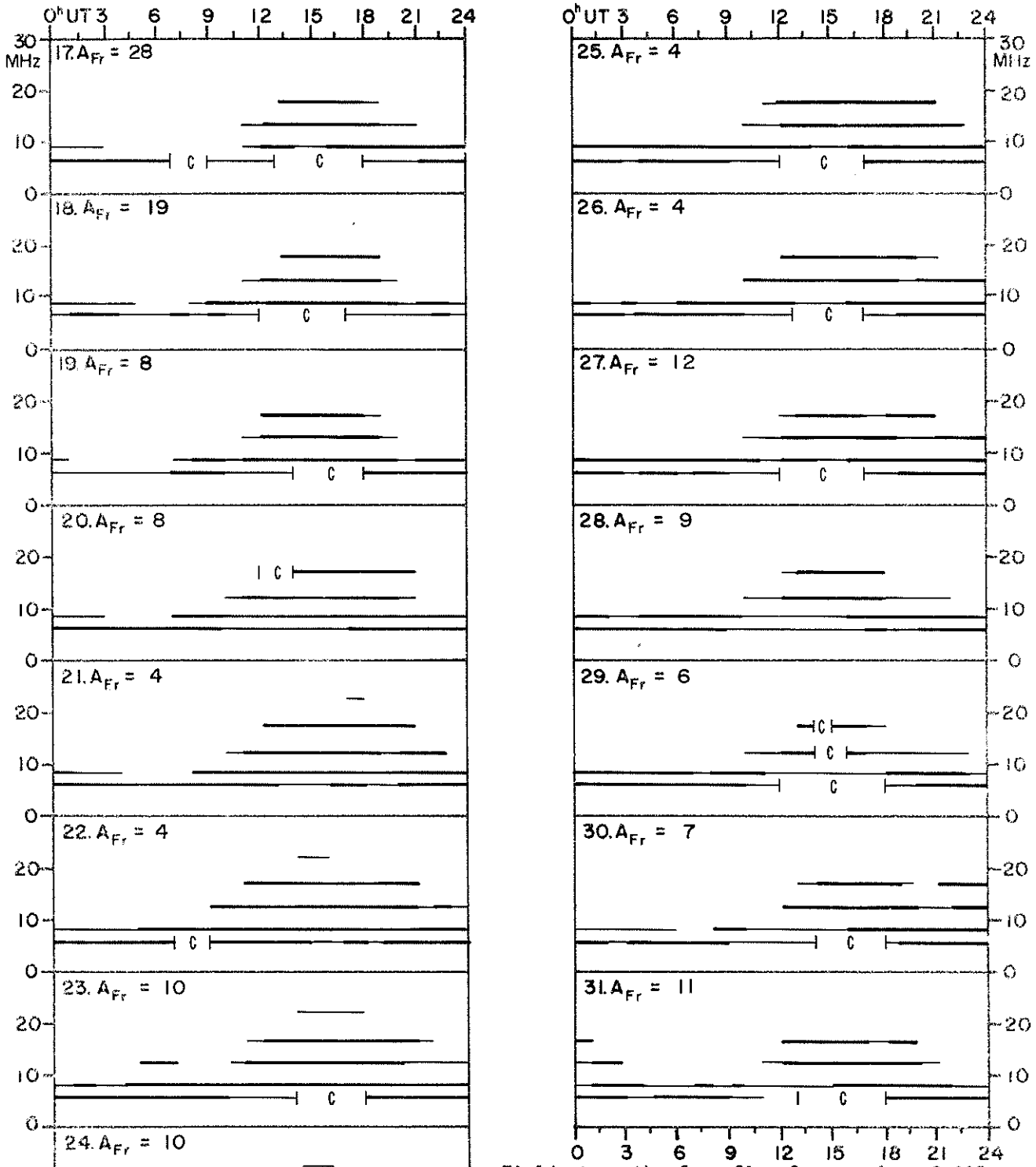
TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

JANUARY 1975



TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

JANUARY 1975



Field strengths from five frequencies, 6.425, 8.542, 12.813, 17.084 and 22.378 MHz, observed on a Lüchow.- Halifax circuit are represented above. Heavy solid lines represent field strengths ≥-12 dB above 1 μv/m (transmitter power reduced to 1 kW). Observed field strengths between -12 dB above 1 μv/m and -40 dB above 1 μv/m are represented by the fine line. Adapted from Observations by Deutsche Bundespost

RADIO PROPAGATION QUALITY INDICES

JANUARY 1975

Quality Indices calculated for reception at Lüchow

	TOKYO	HALIFAX	MAURITIUS	CANBERRA	BRACKNELL
1	4.7	5.6	6.9	3.7	11.9
2	4.5	6.6	6.5	3.4	12.2
3	5.5	7.3	6.3	3.7	12.6
4	5.0	5.0	5.5	3.6	9.6
5	4.4	4.7	6.0	3.2	10.1
6	6.2	5.2	5.6	3.7	12.1
7	5.7	4.6	4.4	2.7	10.6
8	5.4	3.3	5.4	3.2	11.1
9	5.3	5.4	5.7	3.2	11.7
10	4.8	6.1	6.3	3.5	12.2
11	6.0	4.5	6.1	3.7	11.6
12	5.3	5.8	6.5	3.5	12.8
13	5.9	6.0	6.3	4.0	11.9
14	5.5	4.6	6.1	3.9	10.6
15	5.0	5.5	5.8	3.5	11.5
16	5.0	4.8	5.2	3.3	11.6
17	4.3	4.7	5.1	3.3	11.6
18	4.4	4.9	5.1	2.9	10.8
19	5.3	6.0	5.7	3.5	11.7
20	6.2	7.0	6.6	3.5	12.4
21	6.4	6.5	6.8	3.8	12.8
22	6.7	7.0	6.5	4.0	12.9
23	6.4	7.2	6.4	3.8	11.9
24	5.7	7.3	6.1	4.0	13.1
25	5.7	6.4	5.6	3.7	12.9
26	6.2	6.9	5.8	3.6	13.1
27	5.9	6.3	5.6	4.0	12.8
28	5.5	5.5	5.8	3.7	11.5
29	5.4	5.2	6.2	3.7	10.8
30	5.4	6.0	6.2	4.3	11.5
31	5.2	5.8	6.0	3.5	11.4

The method of calculation of the radio propagation indices changed in July 1974. An absolute quality figure is calculated for a 24-hour period from Tokyo, Halifax, Mauritius (Africa) and Canberra. The figure 0.0 corresponds to a median field strength of -30 dB above 1μV/m (converted into 1 kW and referred to an omnidirectional antenna). The figures 1 to 10 are in steps of 5 dB with the figure 10.0 corresponding to a median field strength of +20 dB above 1μV/m. The field strength of the frequency with the highest value for each hour is used in place of a mean of all recorded frequencies. This is done on the assumption that the optimum frequency would be used for communication.

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The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."