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NO. 376 DECEMBER 1975

Part I (Prompt Reports)

DATA FOR
NOVEMBER 1975
OCTOBER 1975

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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No. 376

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Hope I. Leighton, Editor

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

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NOVEMBER 1975 DATA

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ALERT PERIODS

INTERNATIONAL URSIGRAM
AND WORLD DAYS SERVICE

NOVEMBER 1975

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BOULDER 21 NOVEMBER 1975 SOFLARE 1B/M2 S07W22 21/0610Z GREATER THAN 60 MINUTES.
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306	02	01	00	72	06	-	-	-	-	SPOTNIL	02	SPOTNIL		SOLQUIET MAGALERT MINOR 03/06
307	03	02	12	73	25	-	-	-	-	RECURRENT MINOR MAGNETIC STORM STARTED 02/1000Z	03	SPOTNIL		SOLQUIET MAGALERT MINOR 03/06
308	04	03	13	74	40	S02E42	0	0	0	A GEOMAGNETIC STORM IS IN PROGRESS	04	S02E42	Q	SOLQUIET MAGALERT MINOR 04/06
309	05	04	43	77	32	S02E27 N05W07 N04E81	0 0 0	0 0 0	0 0 0	A GEOMAGNETIC STORM IS IN PROGRESS	05	S02E27 N05W07 N04E81	Q Q Q	SOLQUIET MAGALERT MINOR 05/06
310	06	05	63	80	15	S04E10 N05W19 N04E61 S07E45	0 0 4 0	0 0 0 0	0 0 0 0		06	S04E10 N05W19 N04E61 S07E45	Q Q E Q	SOLQUIET MAGALERT 06 STRATWARM ALERT/ THURSDAY/ SPRING TIME TEMPERATURE REVERSAL ESTABLISHED OVER ANTARCTICA IN MID STRATOSPHERE. CIRCULATION REVERSAL PROGRESSING IN UPPER STRATOSPHERE.
311	07	06	55	82	12	S03E01 N03E48 S06E31	0 4 0	0 0 0	0 0 0		07	S03E01 N03E48 S06E31	Q E Q	SOLQUIET MAGNIL STRATWARM ALERT/ FRIDAY/ SPRING TIME TEMPERATURE REVERSAL ESTABLISHED OVER ANTARCTICA IN MID STRATOSPHERE. CIRCULATION REVERSAL PROGRESSING IN UPPER STRATOSPHERE.
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314	10	09	37	80	18	N03E11	0	0	0		10	N03E11	Q	SOLQUIET MAGQUIET
315	11	10	21	80	10	N04W03	2	0	0		11	N04W03	Q	SOLQUIET MAGQUIET
316	12	11	16	80	12	N04W17	1	0	0		12	N04W17	Q	SOLQUIET MAGQUIET
317	13	12	29	81	09	N04W26 N07E47	0 0	0 0	0 0		13	N04W26 N07E47	Q Q	SOLQUIET MAGQUIET
318	14	13	32	81	04	N04W43 N07E30 S07W79	0 0 0	0 0 0	0 0 0		14	N04W43 N07E30 S07W79	Q Q Q	SOLQUIET MAGQUIET
319	15	14	42	85	02	N04W59 N08E16 S08E63	0 0 1	0 0 0	0 0 0		15	N04W59 N08E16 S08E63	Q Q Q	SOLQUIET MAGQUIET
320	16	15	33	86	02	N07E01 S08E50	0 4	0 0	0 0		16	N07E01 S08E50	Q E	SOLQUIET MAGQUIET
321	17	16	56	90	06	N07W09 S07E38	0 9	0 1	0 0		17	N07W09 S07E38	Q E	SOLQUIET MAGQUIET
322	18	17	64	91	11	N07W24 S06E25	0 4	0 0	0 0		18	N07W24 S06E25	Q Q	SOLQUIET MAGQUIET
323	19	18	53	96	06	N06W39 S06E11	0 3	0 0	0 0		19	N06W40 S06E10	Q E	SOLALERT 19/28 MAGQUIET
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325	21	20	42	93	08	N06W65 S07W15	0 1	0 0	0 0		21	N06W66 S07W16	Q E	SOLALERT MAGQUIET
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332	28	27	00	73	03	-	0	0	0	SPOTNIL	28	-		SOLQUIET MAGALERT 29/02
333	29	28	00	72	08	-	0	0	0	SPOTNIL	29	-		SOLQUIET MAGALERT 29/02
334	30	29	00	73	28	-	0	0	0	SPOTNIL	30	-		SOLQUIET MAGALERT 30/02
335	01	30	00	73	27	-	0	0	0	SPOTNIL	01	-		SOLQUIET MAGALERT MINOR 01/02

RELATIVE SUNSPOT NUMBERS

ZURICH, R_z

1974 FINAL 1975 PROVISIONAL

DAY	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	0	30	0	0	0	26	7	23	37	14	15	0
2	0	30	22	7	0	33	11	18	36	16	8	0
3	9	28	28	14	0	29	8	22	46	19	9	7
4	16	19	27	11	0	28	7	22	78	29	10	18
5	17	18	20	14	21	28	7	23	93	25	8	22
6	8	23	26	14	0	20	7	33	104	24	10	27
7	7	32	34	7	15	16	0	23	102	24	9	30
8	0	29	29	18	17	0	0	19	89	23	16	30
9	0	37	22	19	9	0	0	16	83	17	15	30
10	9	31	18	20	13	9	0	23	80	10	8	22
11	21	30	13	20	0	0	9	29	72	10	8	30
12	31	31	18	15	0	0	0	33	45	16	8	24
13	34	32	9	15	0	0	0	49	52	25	16	20
14	33	11	8	17	0	7	0	44	34	17	30	28
15	35	20	8	18	0	7	8	43	31	8	23	27
16	40	17	8	30	0	8	19	39	26	14	19	30
17	36	16	0	30	0	0	17	23	19	14	8	32
18	34	20	0	24	0	8	12	29	16	18	18	37
19	43	20	0	20	0	0	16	36	8	13	16	31
20	40	18	7	16	0	0	0	26	22	30	12	36
21	40	16	8	9	0	0	7	30	23	27	7	36
22	37	16	0	0	0	8	0	27	0	23	0	26
23	28	15	0	0	7	8	12	19	8	0	0	12
24	26	7	12	0	8	7	20	30	8	0	7	10
25	9	7	9	0	7	0	24	33	11	0	0	8
26	8	7	0	13	7	0	33	30	16	0	0	7
27	8	0	0	7	26	7	38	29	18	0	0	0
28	20	7	0	0	19	13	36	26	10	0	0	0
29	16	7		0	16	0	23	20	10	0	0	0
30	19	7		7	20	0	22	27	21	7	0	0
31	13	0		8		8		34	21		0	
MEAN	20.5	18.7	11.6	12.0	6.2	8.7	11.4	28.3	39.3	14.1	9.0	19.3

1974 yearly mean = 34.5

DAILY SOLAR SOLAR FLUX AT 2800 MHz
OTTAWA ARO

FLUX ADJUSTED TO 1 A.U., S_a

1974 1975

DAY	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	79.7	78.1	70.8	70.7	70.2	76.3	71.4	78.7	91.6	87.0	76.4	70.4
2	78.7	75.8	72.3	72.4	71.2	81.1	73.0	76.8	95.4	87.9	78.1	71.4
3	76.7	77.1	74.3	73.4	72.2	79.6	70.8	77.1*	97.0*	87.8	78.4	73.0
4	74.7	74.4	75.4	72.8	73.0	79.6	70.4	76.8	104.6	92.8	76.3	75.4
5	73.2	73.7	76.5	71.3	73.7	78.4	69.3	76.8	107.9	94.4	76.1	78.9
6	71.9	73.8	81.1	72.4	73.7	75.9	68.2	76.1	120.0*	94.0	75.1	80.1
7	71.1	75.7	79.4	71.9	74.3	73.6	68.1	74.1	123.2	91.1	74.3	80.5
8	69.6	77.7	78.8	72.5	73.6	71.9	67.5	74.0	123.7	88.5	74.0	80.9
9	69.6	79.9	77.1	73.8	73.4	70.6	67.7	73.3	115.9	84.3	75.4	78.8
10	70.4	80.5	76.7	73.3	72.4	70.1	68.8	73.0	116.5	82.5	74.3	78.9
11	76.2	81.2	74.8	73.0	72.3	69.8	68.1	77.6	107.3	81.1	73.3	78.6
12	77.9	82.4	74.9	74.2	70.8	69.6	68.4	82.7	104.5*	78.2*	74.8	79.9
13	78.0	80.4	73.7	75.6*	70.7	69.1	67.9	88.5*	98.0	75.2	79.0	79.2
14	78.2	77.7	72.0	75.0	69.7	68.7	68.5	89.0	90.9*	74.2	80.0	82.7
15	83.2	77.4	69.7	73.4	69.7	68.0	68.9	85.6	86.0	74.1	80.3	83.7
16	88.3	76.5	71.4	76.0	69.2	68.5	71.4	83.6	82.8	74.3	78.5	87.6
17	88.3	74.7	69.3	75.3	69.6	68.3	70.2	81.2	79.0	74.8	78.9	88.9
18	90.3	75.8	68.3	74.2	68.3	68.7	70.2	82.8	76.4	76.2	79.2	90.8*
19	91.9	74.1	70.0	72.9	67.5	68.9	71.0	81.9	76.7	76.2	78.0	93.0*
20	87.3	73.8	69.5	71.9	68.0	68.6	72.5	83.3	77.2	76.5	77.1	90.9
21	86.0	74.5	68.9	71.2	68.2	69.7	68.7	83.1	80.0	76.7	75.7	86.6
22	84.4*	73.6	68.3	69.3	67.8	70.8	69.9	82.7	78.5	75.3	74.2	81.5
23	83.0	72.7	68.3	67.6	68.7	70.6	72.9	82.0	76.8	76.1	74.3	77.2
24	80.1	71.0	68.6	67.4	69.3	70.6	75.9	79.3	77.0	76.8	72.7*	74.7
25	78.9	70.3	69.4	67.5	71.6	70.2	77.7	79.8	80.6	76.7	72.1	73.7
26	75.8	70.5	68.8	68.6	72.1	69.0	79.8	80.0	81.3	76.7	71.9	71.9
27	74.3	70.1	69.4	67.3	74.4	70.5	81.5	78.5	83.6	75.7	72.1	70.7
28	73.7	70.7	68.6	67.8	74.8	70.6	80.7	76.5	83.3	76.1	71.7	70.4
29	74.1	70.4		69.0	73.2	71.0	79.4	75.5	84.7	75.9	70.8	70.9
30	74.5	70.5		69.0	73.4	71.0	78.8	78.9	86.2	75.8	70.2	70.6
31	76.1	70.1		70.5		71.1		81.9*	86.7		69.9	
MEAN	78.6	75.0	72.4	71.7	71.2	71.6	71.9	79.7	92.7	80.4	75.3	79.1

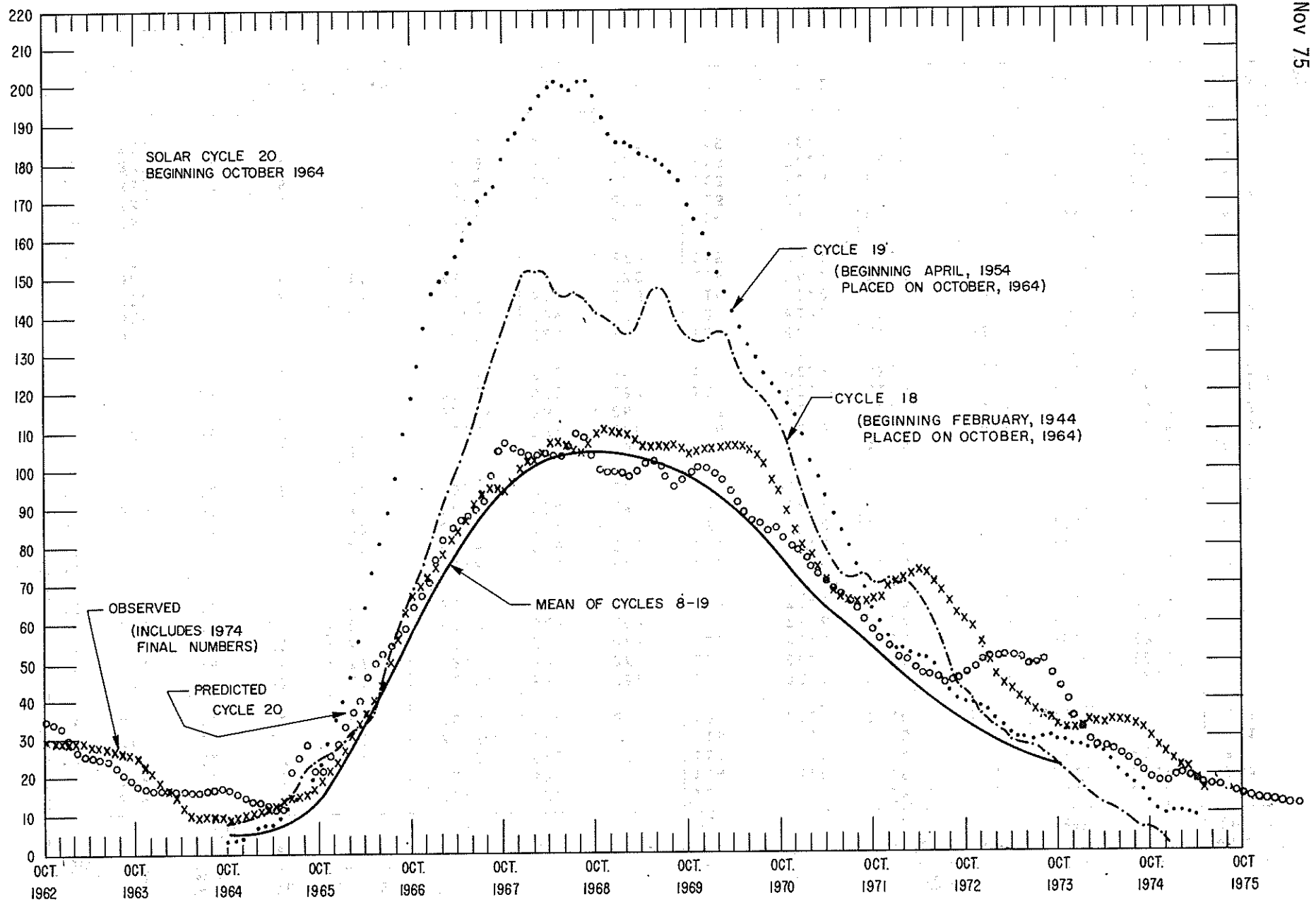
* adjusted for burst

DAILY SOLAR INDICES

NOVEMBER 1975

NOV 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	305	9	0	0	71.5	527	275	115	70.4	68.8	47.1	36.8	21.4	8.1
2	306	10	0	0	72.6	524	271	114	71.4	69.5	45.6	34.6	20.4	7.8
3	307	11	7	4	74.2	521	272	117	73.0	70.4	48.6	37.6	22.5	8.1
4	308	12	18	22	76.7	526	274	118	75.4	73.0	49.1	38.2	23.5	9.1
5	309	13	22	22	80.3	526	281	121	78.9	76.4	51.9	40.0	22.8	9.6
6	310	14	27	29	81.6	530	282	124	80.1	78.8	53.7	39.6	22.5	8.3
7	311	15	30	37	82.0	529	279	122	80.5	78.2	52.7	39.4	22.3	8.1
8	312	16	30	30	82.5	529	273	122	80.9	77.9	54.4	40.3	22.4	8.6
9	313	17	30	24	80.3	528	268	121	78.8	74.7	51.3	37.8	20.2	7.4
10	314	18	22	18	80.5	526	270	120	78.9	78.0	55.2	40.2	21.4	8.1
11	315	19	30	17	80.2	522	277	120	78.6	77.3	52.0	39.9	23.2	8.1
12	316	20	24	19	81.6	525	275	121	79.9	77.9	54.7	41.2	23.5	8.4
13	317	21	20	27	80.9	524	279	122	79.2	79.1	55.8	40.8	23.5	8.4
14	318	22	28	31	84.5	524	282	124	82.7	80.3	57.0	40.5	23.4	8.1
15	319	23	27	27	85.6	520	279	124	83.7	82.8	57.0	40.2	23.7	9.0
16	320	24	30	33	89.6	533	290	130	87.6	86.6	59.5	42.6	24.2	14.7
17	321	25	32	34	91.0	527	286	134	88.9	87.2	60.6	42.2	25.5	15.3
18	322	26	37	34	92.9*	536	287	137	90.8*	90.6	59.7	43.6	23.7	10.7
19	323	27	31	39	95.3*	532	287	139	93.0*	91.3	57.0	42.2	27.7	22.1
20	324	1	36	37	93.1	520	280	132	90.9	87.0	58.4	42.6	25.5	16.7
21	325	2	36	31	88.7	528	280	129	86.6	84.2	58.9	41.1	24.9	16.7
22	326	3	26	16	83.6	524	277	124	81.5	80.7	54.5	41.1	37.1	80.5
23	327	4	12	12	79.2	519	273	118	77.2	76.1	52.6	41.1	21.7	11.5
24	328	5	10	11	76.7	521	270	118	74.7	73.7	51.3	38.2	24.1	8.8
25	329	6	8	9	75.7	523	272	115	73.7	71.5	49.0	37.6	23.7	8.4
26	330	7	7	2	73.8	525	274	114	71.9	69.8	46.7	38.0	20.2	8.3
27	331	8	0	0	72.7	523	272	113	70.7	69.4	46.2	35.3	21.8	8.3
28	332	9	0	0	72.4	521	270	113	70.4	68.9	45.9	34.7	23.1	8.0
29	333	10	0	0	72.9	526	272	113	70.9	69.0	45.9	35.8	22.5	8.7
30	334	11	0	0	72.6	526	279	115	70.6	70.3	47.2	37.3	21.8	8.5
MEAN			19.3	18.8	80.8	526	277	122	79.1	77.3	52.7	39.4	23.0	12.3

* Adjusted 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	11.0
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	78.0	82.2	84.6	87.4	91.3	94.1	95.3	95.3	95.3	97.1	100.6
1968	102.6	102.9	104.7	107.2	107.6	106.6	105.2	104.0	107.0	109.9	110.6	110.1
1969	110.0	109.6	108.0	106.4	106.2	106.1	105.0	106.4	105.4	104.1	104.6	104.9
1970	105.6	106.0	106.2	106.1	105.0	105.3	103.0	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	65.0	66.2	66.0	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	37.5	36.1	34.4	32.6	31.0	31.5
1974	32.7	34.4	34.0	33.9	34.6	34.5	34.0	33.1	32.1	30.3	27.6	25.2
1975	23.9	22.2	21.3	18.6	16.9	16.0 12.1	16.4 (5.)	16.0 (7.1	15.6 19.1	15.2 (--)	14.8 (--)	14.4 (--)
1976	13.9 (--)	13.4 (--)	13.0 (--)	12.5 (--)	12.0 (--)							

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 1974.

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.

Hα SOLAR FLARES

NOVEMBER 1975

OBSERVATORY	OBSERVED UT DATE NOV	START	MAX. PHASE	END	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Mill of Disk	CORR. AREA Sq. Deg.	REMARKS
ARCE	04	0827E		0907D	N03	E88	1.000		11.0	40D	SN		C	0853	48		
ARCE	04	0927E		0950D	S03	E63	.890		9.1	23D	SF		C	0944	60	.8	
PALE	04	2050	2050	2106	S 4	E80	.984		10.9	16	SF	2	C		6		DE
PALE	05	0041E	0041U	0047	S 4	E76	.969		10.7	6D	SF	2	C		15		DE
MANI	05	0043E	0043U	0047	N04	E79	.983		11.0	4D	SF	3	V	0043	20	.5	
ISTA	05	0810E		0830	N02	E71	.948		10.7	20D	SN						D
MCMA	05	1458E		1650	N04	E70	.943	13926	10.9	112D	1N		C	1459	100	3.0	BEL
MCMA	05	1710	1712	1716	N03	E69	.937	13926	10.9	6	SN		C	1712	20	.6	D
PALE	05	1710	1712	1721	N 3	E66	.917		10.7	11	SF	2	C		12		DE
PALE	05	1743	1744	1819	N 4	E66	.918		10.7	36	SF	3	C		26		DE
MCMA	05	1743	1744	1749	N03	E69	.937	13926	10.9	6	SB		C	1744	20	.6	DL
BOUL	05	1835	1859	2000	N 3	E67	.924	13926	10.8	85	1N	1	C	1859	128	3.2	
PALE	05	1835	1859	1922D	N 4	E65	.911		10.6	47D	SN	2	C		80		DE
MCMA	05	1844	1855	1913	N05	E68	.932	13926	10.9	29	1N		C	1855	60	2.2	EKL
PALE	05	2050	2050	2106	S 4	E80	.984		11.9	16	SF	2	C		6		DE
BOUL	05	2139	2145	2215	N 4	E64	.904	13926	10.7	36	1N	1	C	2145	96	2.2	
CULG	05	2141	2144	2155	N03	E68	.931		11.0	14	SF		P	2144	30	.8	
CULG	06	0115	0118	0142	N02	E65	.909	13926	10.9	27	1N		C	0118	90	2.1	
CULG	06	0504	0507	0517	N02	E62	.887		10.9	13	SF		P	0507	30	.6	
CULG	06	0625	0629	0645	N01	E61	.877	13926	10.8	20	1N		C	0629	100	2.1	
MANI	06	0638E	0638U	0643	N02	E60	.870		10.8	5D	SN	3	V	0638	50	.9	F
ATHN	06	0922E	0924	0932	N 3	E57	.845		10.7	10D	SN	2	C		48		DE
ATHN	06	0922E	0924	0932	N 3	E57	.845		10.7	10D	SN	2	V		48		DE
TEHR	06	0923E	0925U	0933	N 2	E58	.853		10.7	10D	SB	3	V		40		DE
ARCE	06	0926	0926	0945D	N04	E59	.864	13926	10.8	19D	1B		C	0926	243	4.9	T
RAMY	06	1157	1207	1218	N 4	E56	.837	13926	10.7	21	1N	4	C		216		DE H
TEHR	06	1206E	1208U	1215D	N 3	E57	.845		10.8	9D	SF	3	V		80		F H
RAMY	06	1708	1714	1725	N 3	E52	.796		10.6	17	SF	4	C		63		DE
MCMA	06	1709	1712	1718	N02	E55	.825	13926	10.8	9	SF		C	1712	40	.7	E
PALE	09	2318	2320	2326D	N 5	E 8	.242		10.6	8D	SF	2	C		18		DE
ATHN	10	0721	0729	0736	N 2	E 6	.182		10.8	15	SN	3	C		80		U H
ATHN	10	0721	0729	0736	N 2	E 6	.182		10.8	15	SN	3	V		80		U H
MANI	10	0723	0728	0732D	N03	E04	.180		10.6	9D	SN	3	P	0728	60	.6	FH
CATA	10	0735E	0735	0810	N02	E03	.158		10.5	35D	SN	3		0735	84	1.0	
CATA	10	0830	0845	0850	N02	E03	.158		10.6	20	SN	3		0845	84	1.0	
ATHN	10	0842E	0842U	0846	N 2	E 6	.182		10.8	4D	SF	3	C		32		F
ATHN	10	0842E	0842U	0846	N 2	E 6	.182		10.8	4D	SF	3	V		32		F
RAMY	10	1129	1133	1141	N 2	W 0	.149		10.5	12	SN	4	C		180		UDE
RAMY	10	1428	1433	1447	N 4	W 1	.184		10.5	19	SN	4	C		36		F
BOUL	10	1429	1435	1455	N 4	W 0	.184		10.6	26	SF	1	C	1435	107	1.1	
MANI	11	0111	0116	0124	N03	W06	.197		10.6	13	SN	3	P	0116	90	.9	F
PALE	11	0112	0113	0115D	N 4	W 4	.197		10.8	3D	SF	3	V		38		DE
PALE	11	0112	0113	0115D	N 4	W 4	.197		10.8	3D	SF	3	C		38		DE
CATA	11	0900E	0900	0910	N02	W10	.228		10.6	10D	SF	3		0900	56	.6	
BOUL	12	2024	2025	2032	N 2	W26	.460		10.9	8	SF	2	C	2025	21	.2	
BOUL	12	2035	2039	2052	S12	E 9	.180		13.5	17	SF	2	C	2039	42	.4	
RAMY	12	2038E		2038D	S15	E11	.236		13.7		SF	2	V		143		F
BOUL	12	2144	2146	2156	N 2	W28	.489		10.8	12	SF	2	C	2146	21	.2	
CULG	14	0334	0335	0338	N02	W47	.740		10.6	4	SF		C	0335	15	.2	
CULG	14	0409	0412	0418	S10	E80	.982	13937	20.2	9	1N		P	0412	60	2.4	
MANI	14	0416E	0416U	0427	S07	E75	.963		19.8	11D	SN	2	V	0416	80	2.0	
ARCE	14	0807E		0835D	N06	E26	.484		16.3	28D	SN		C	0819	45	.5	
RAMY	14	1141	1151	1159	N 6	E23	.443		16.2	18	SF	4	C		63		F
RAMY	14	1148E	1154	1159	N 7	E24	.464		16.3	11D	SF	4	V		64		F
CATA	15	0945	0945	1000	N03	W63	.896	13926	10.7	15	1F	1		0945	112	2.5	
ARCE	15	1005E		1005D	N11	W59	.878		11.0		SF		P	1005	37	.7	
RAMY	15	1143E	1145U	1219D	S 6	E58	.844		19.8	36D	SN	4	C		189		FDE
CATA	15	1145	1145	1230D	S07	E57	.834	13937	19.8	45D	2B	1		1145	505	10.0	
RAMY	15	1146E	1149	1201D	S 8	E61	.870		20.1	15D	SN	4	V		175		F
MCMA	15	1654		1720D	S09	E56	.824	13937	19.9	26D	SF		C	1706	70	1.3	E
MCMA	15	1842	1843	1846	S09	E57	.833	13937	20.1	4	SF		C	1843	30	.5	D
MCMA	15	1847		1942D	S07	E61	.870	13937	20.4	55D	1B		C	1912	90	2.0	EK
RAMY	15	1847	1908	2022	S 5	E61	.872		20.4	95	SN	4	C		135		F S
PALE	15	1848	1938U	2022D	S 8	E60	.861		20.3	94D	SF	3	C		36		DE

Hα SOLAR FLARES

NOVEMBER 1975

OBSERVATORY	OBSERVED UT DATE NOV	START	MAX. PHASE	END	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MOMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Mil. of Disk	CORR. AREA Sq. Deg.	REMARKS
RAMY	15	1905E	1908	1925D	S 7	E57	.834		20.1	20D	SN	4	V		128		F S
BOUL	15	1907E	1915	1940	S 5	E61	.872		20.4	33D	SN	2	C	1915	96	2.0	
BOUL	15	2137	2142	2157	S10	E53	.793		19.9	20	SF	2	C	2142	21	.4	
CULG	15	2308	2316	2324	S09	E53	.793		19.9	16	SF		C	2316	40	.7	
MANI	15	2309	2311	2321	S07	E52	.784		19.9	12	SN	3	V	2311	80	1.3	D
PALE	16	0044	0050	0112	S 8	E50	.761		19.8	28	SF	3	C		26		
PALE	16	0129	0132	0153	S 8	E51	.772		19.9	24	SF	3	C		26		DE
MANI	16	0145E	0145U	0153	S07	E51	.773		19.9	8D	SF	3	V	0145	30	.5	
MITK	16	0202	0210	0222D	S07	E51	.773		19.9	20D	SN		C	0210	110	1.8	
PALE	16	0208E	0210	0229	S 8	E50	.761		19.8	21D	SN	3	C		110		U
MANI	16	0209	0214	0226	S07	E51	.773		19.9	17	SN	3	V	0214	70	1.2	D
PALE	16	0239	0244	0253	S 8	E50	.761		19.9	14	SF	3	C		76		DE
MITK	16	0537	0547	0621D	S07	E47	.727		19.8	44D	SB		C	0547	80	1.2	EH
MANI	16	0541E	0551	0617	S07	E49	.750		19.9	36D	SB	3	V	0551	120	1.9	ZS
RAMY	16	1112	1117	1121	S 8	E45	.702		19.8	9	SN	4	C		48		DE H
RAMY	16	1115E	1117	1121D	S 9	E44	.690		19.8	6D	SN	4	V		42		DE H
BOUL	16	1450	1525	1630	S 7	E44	.690		19.9	10D	SF	2	C	1525	74	1.0	
MCMA	16	1450	1454	1520	S08	E43	.677	13937	19.8	30	SB		C	1454	70	1.0	EL
BOUL	16	1740	1744	1800	S 4	E43	.681		20.0	20	SF	2	C	1744	64	.9	
MCMA	16	1744	1745	1749	S05	E45	.704	13937	20.1	5	SF		C	1745	40	.6	E
RAMY	16	2007	2017	2024	S 8	E42	.665		20.0	17	SF	3	C		135		DE
BOUL	16	2008	2016	2055	S 9	E41	.651		19.9	47	SN	1	C	2016	107	1.4	
PALE	16	2014E	2016U	2018D	S 8	E40	.638		19.8	4D	SF	2	C		80		DE
RAMY	16	2020E	2022U	2027D	S 7	E43	.678		20.1	7D	SF	3	V		70		DE
BOUL	16	2138	2145	2226	N 5	W76	.973		11.2	48	SF	2	C	2145	53	1.7	
PALE	17	0014E	0014U	0020D	S 8	E37	.598		19.8	6D	SF	2	C		41		DE
RAMY	17	1145E	1155	1245D	S 7	E30	.497		19.7	60D	SN	4	V		128		Z F
ATHN	17	1149E	1154	1240	S 8	E31	.511		19.8	51D	SN	4	C		128		Z F
ATHN	17	1149E	1154	1240	S 8	E31	.511		19.8	51D	SN	4	V		128		Z F
TEHR	17	1150E	1152U	1210D	S 8	E32	.526		19.9	20D	SN	2	V		58		F
CATA	17	1210E	1210	1215D	S05	E28	.468		19.6	5D	SN	1		1210	112	1.3	
MCMA	17	1310E		1335	S07	E29	.481	13937	19.7	25D	SF		C	1319	50	.6	EH
MCMA	17	1352	1401	1430D	S07	E27	.451	13937	19.6	38D	SF		C	1401	60	.7	EH
MCMA	17	1434		1510	S07	E27	.451	13937	19.6	36	SF		C	1445	50	.6	EH
MCMA	17	1645	1648	1657	S07	E33	.541	13937	20.2	12	SN		C	1648	35	.4	DL
MCMA	17	1659	1700	1701	S07	E33	.541	13937	20.2	2	SN		C	1700	35	.4	DL
MCMA	17	1823	1828	1842	S09	E28	.466	13937	19.9	19	SN		C	1828	50	.6	E
MCMA	17	1945		1949D	S09	E26	.436	13937	19.8	4D	SN		P	1946	40	.5	E
MANI	18	0752E	0754U	0757D	S08	E19	.323		19.8	5D	SN	3	V	0754	50	.6	F
TEHR	18	0754E	0759	0805	S 6	E37	.599		21.1	11D	SF	3	V		48		F
ATHN	18	1037	1041	1058	N 7	W30	.545		16.2	21	SN	4	V		64		U H
RAMY	18	1323E	1325	1352D	S 8	E17	.290		19.8	29D	SF	4	V		32		FDE
RAMY	18	1323E	1333	1352D	S 8	E17	.290		19.8	29D	SN	4	V		32		FDE
MCMA	18	1334E	1335	1520D	S07	E16	.274	13937	19.8	106D	SB		P	1335	110	1.2	E
MCMA	18	1730E		1905D	S08	E16	.274	13937	19.9	95D	SF		P	1805	100	1.1	F
MCMA	18	1905	1930	1949D	S06	E20	.340	13937	20.3	44D	SB		C	1930	120	1.4	E
PALE	18	1908	1926	2021D	S 8	E18	.307		20.1	73D	SN	3	C		140		DE
MANI	19	0328	0332	0350	S09	E09	.159		19.8	22	SN	3	P	0332	110	1.2	F
MANI	19	0451E	0451U	0503D	N04	W45	.722		15.8	12D	SF	3	P	0451	30	.4	
ATHN	19	0724E	0724U	0741D	S 9	E 8	.142		19.9	17D	SN	1	V		160		U F
ATHN	19	0724E	0724U	0741D	S 9	E 8	.142		19.9	17G	SN	1	C		160		U F
MANI	19	0732E	0732U	0734D	S08	E07	.122		19.8	2D	SN	3	V	0732	130	1.4	F
ARCE	19	0830E		0851	S07	E06	.104		19.8	21D	SN		C	0833	113	1.2	TB
ARCE	19	0848E		0852D	S09	E07	.126		19.9	4D	SB		C	0851	37	.4	D
MCMA	19	1344	1349	1356	N05	W48	.759	13934	16.0	12	SF		C	1349	25	.4	DH
MCMA	19	1429	1434	1451	S09	E04	.078	13937	19.9	22	SB		C	1434	50	.5	E
CATA	19	1445E	1445	1450D	S08	E03	.055		19.8	5D	SN	1		1445	56	.6	
MCMA	19	1645	1650	1715	S09	E03	.063	13937	19.9	30	SF		C	1650	40	.4	E
MCMA	19	1851	1854	1915	S09	E01	.039	13937	19.9	24	SN		C	1854	60	.6	E
MCMA	19	1932E		1942D	S07	E00	.000	13937	19.8	10D	SB		C	1932	20	.2	D
MANI	20	0828	0831	0834	S08	W03	.055		20.1	6	SF	3	P	0831	30	.3	
CATA	20	1450	1450	1505D	S09	W04	.077		20.3	15D	SN	1		1450	28	.3	
CULG	20	2324	2326	2330	S08	W12	.207		20.1	6	SF		C	2326	60	.6	L
ATHN	21	0610	0617	0720	S 7	W20	.340	13937	19.8	70	18	3	C		304		UDE
ATHN	21	0610	0617	0720	S 7	W20	.340	13937	19.8	70	18	3	V		304		UDE
ATHN	21	0610	0634	0720	S 7	W20	.340	13937	19.8	70	18	3	C		368		UDE

Hα SOLAR FLARES

NOVEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE NOV	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR. AREA Sq. Deg.	
ATHN	21	0610	0634	0720	S 7	W20	.340	13937	19.8	70	1B	3	V		368		UDE
TEHR	21	0610E	0621	0704	S 6	W21	.356	13937	19.7	540	1B	4	V		388		DE
TEHR	21	0610E	0621	0704	S 8	W21	.356	13937	19.7	540	1B	4	C		388		DE
CULG	21	0621E	0622U	0746D	S08	W22	.372	13937	19.6	850	1N		P	0622	240	2.4	F
MANI	21	0629E	0632	0701D	S05	W22	.374	13937	19.6	320	1B	3	P	0632	90	1.0	DZ
ARCE	21	0807E		0822D	S05	W26	.437		19.4	150	SN		C	0807	34	.4	
CATA	21	0810E	0810	0825D	S07	W25	.420		19.5	150	SN	1		0810	84	1.0	
CATA	21	0850E	0850	0940	S07	W25	.420		19.5	500	SN	1		0850	56	.6	
ARCE	21	0930		0930D	S06	W26	.436		19.4		SN		P	0930	24	.3	D
ARCE	22	0947		1005D	S08	W28	.466		20.3	180	SF		P	1005	34	.4	
MCMA	22	1405	1407	1410	S05	W34	.557	13937	20.0	5	SF		C	1407	50	.6	E
ARCE	23	0950	0955	0957	S04	W44	.693		20.1	7	SF		C	0955	31	.4	
ARCE	24	0855	0855	0855	S10	W67	.915		19.3		SF		C	0855	9		D

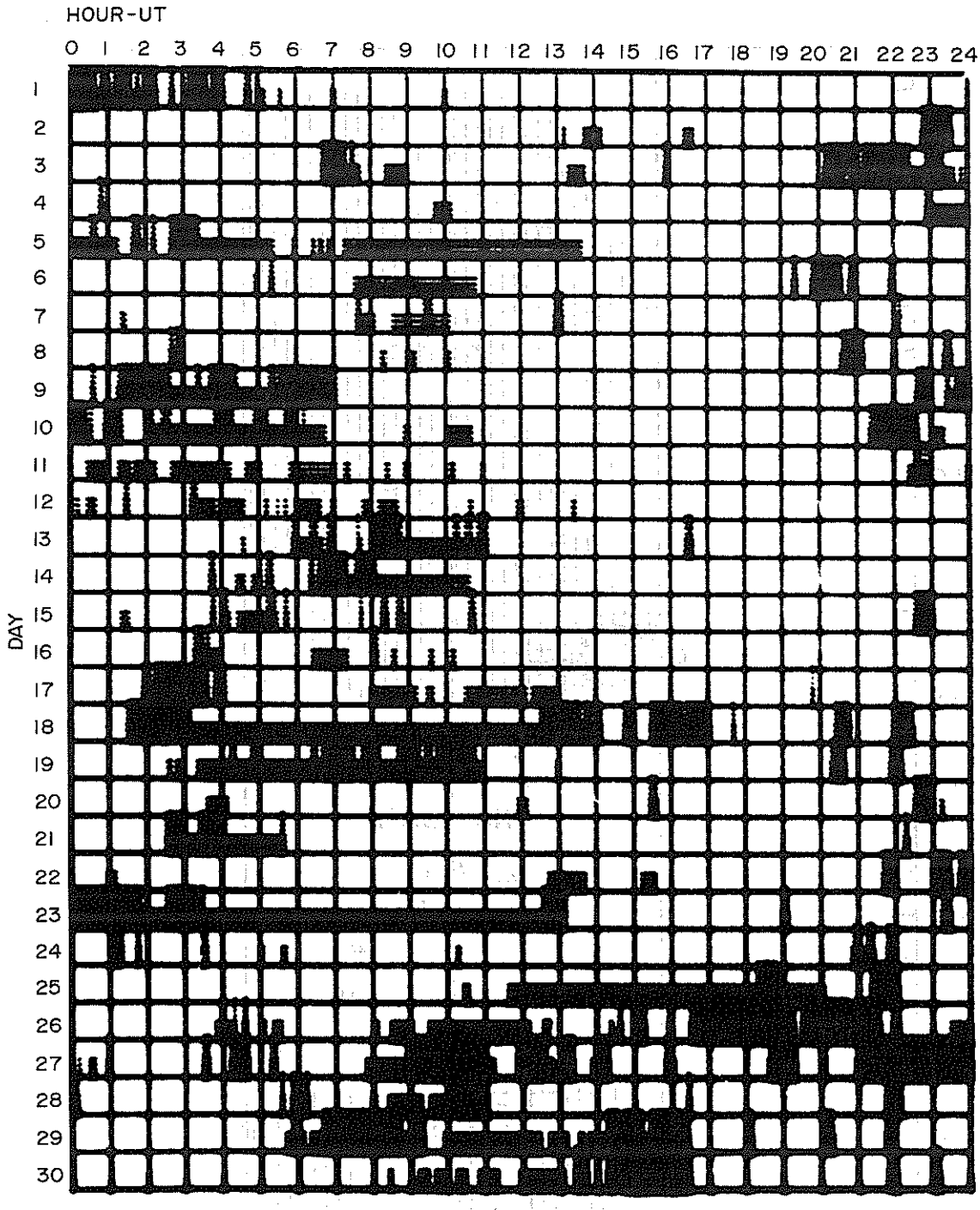
"Remarks":

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.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

NOVEMBER 1975



Observatories included in total patrol:

Arcetri	Catania	Hurbanovo	McMath-Hulbert	Ramey
Athenes	Culgoora	Istanboul	Mitaka	Tehran
Boulder	Herstmonceux	Manila	Palehua	Upice
				Wendelstein

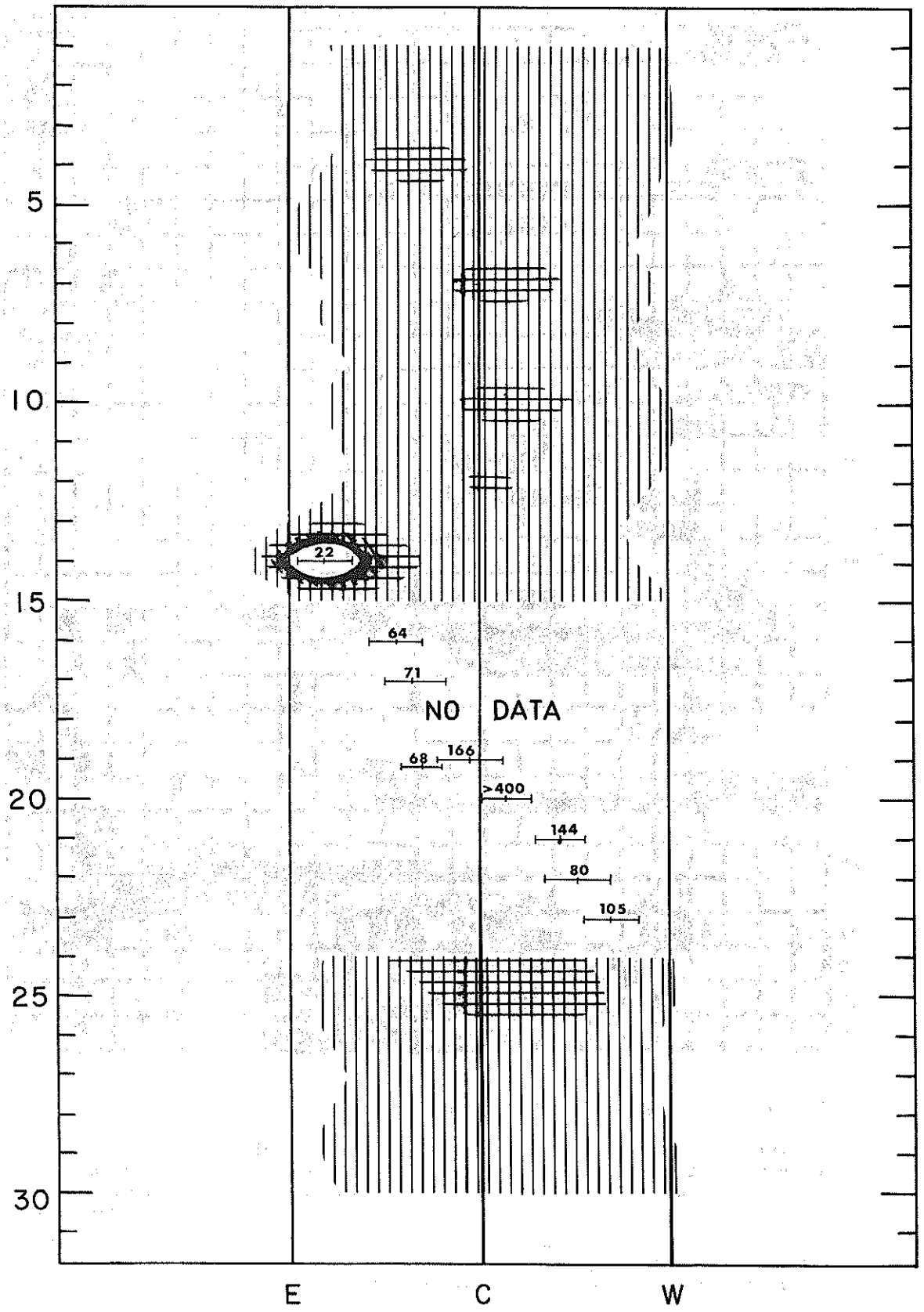
Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

14
Nov 75

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

NOVEMBER 1975

Nançay 169 MHz

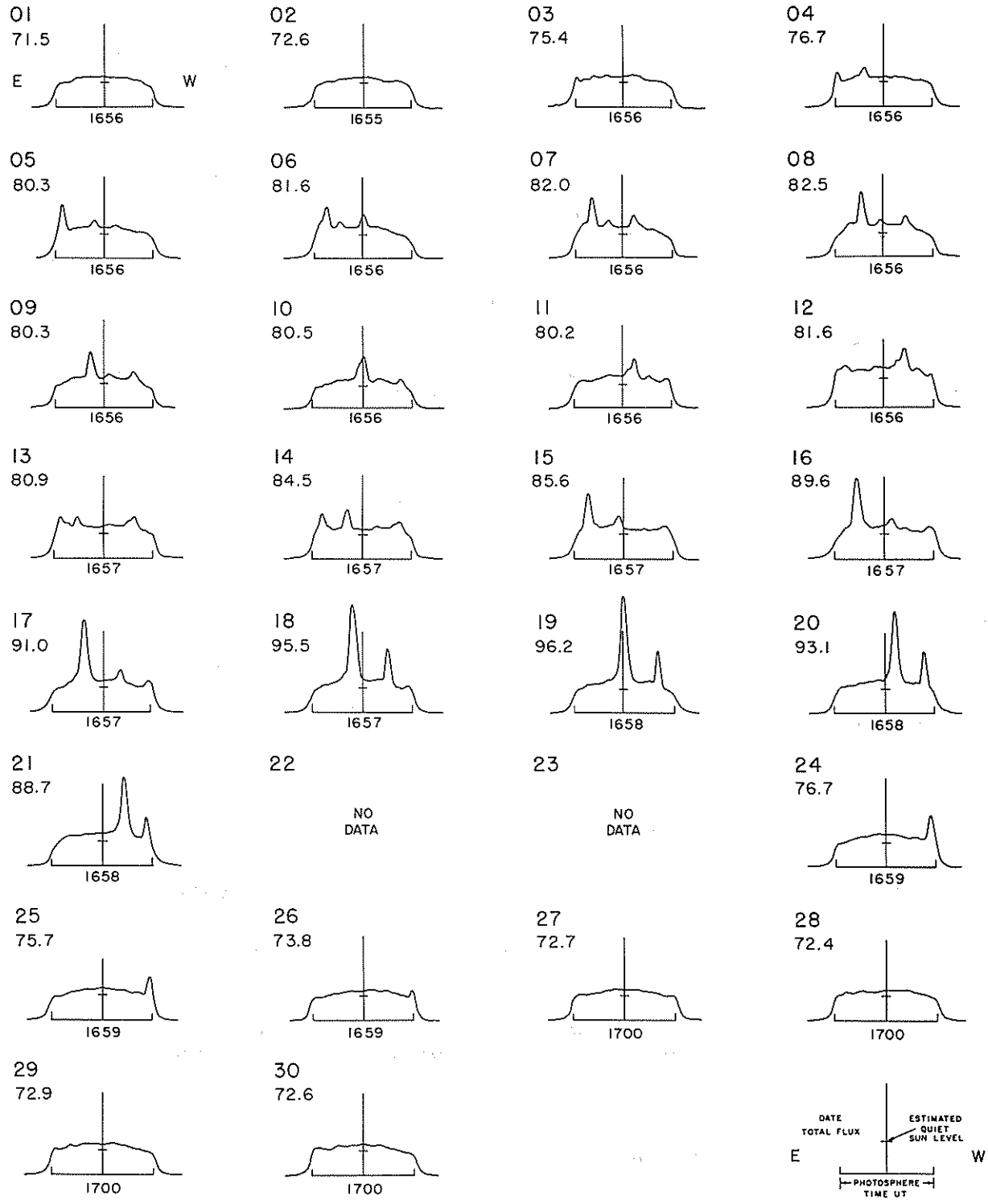


EAST - WEST SOLAR SCANS

November 1975

ALGONQUIN RADIO OBSERVATORY
CANADA

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



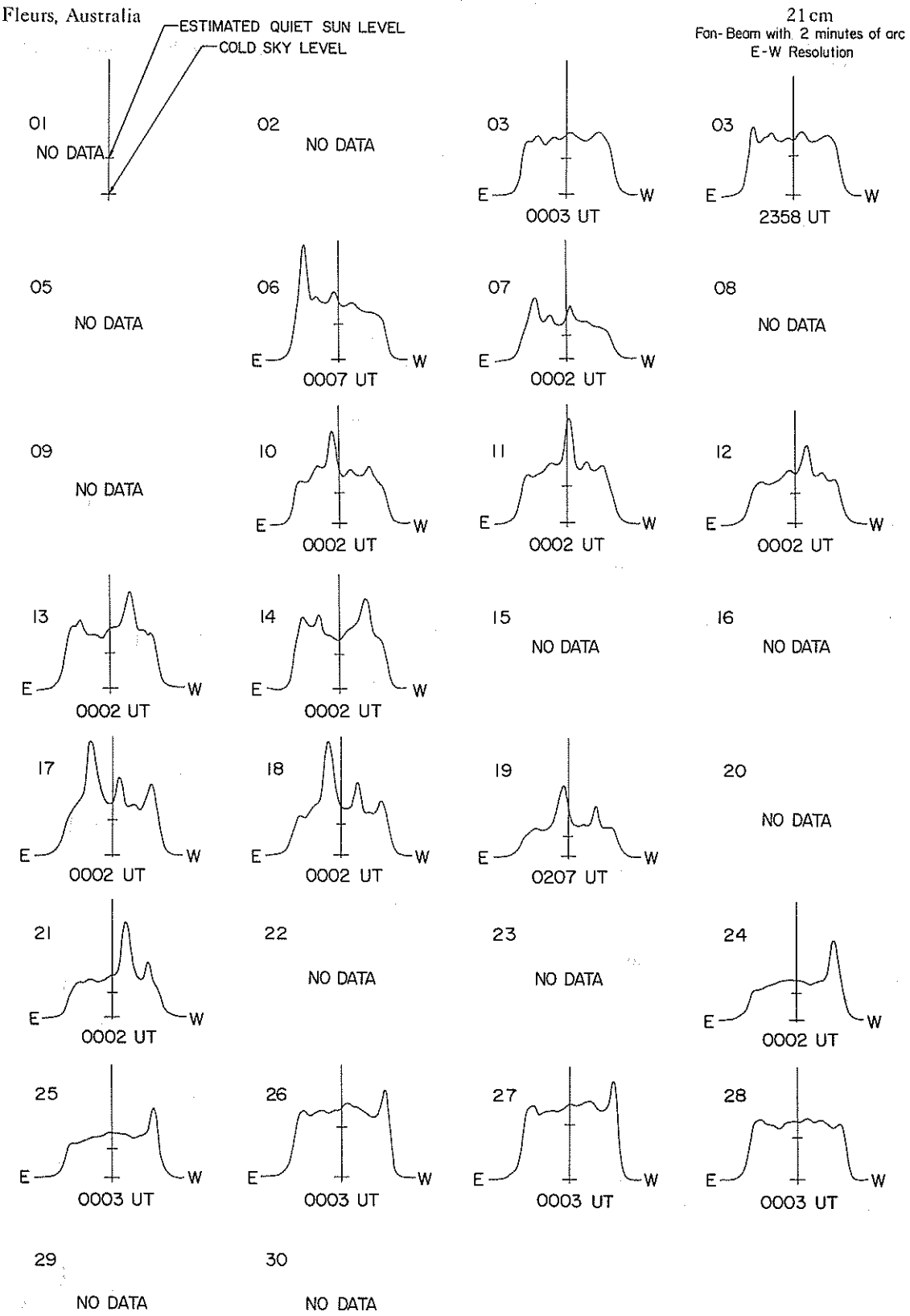
16
Nov 75

EAST-WEST SOLAR SCANS

NOVEMBER 1975

Fleurs, Australia

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

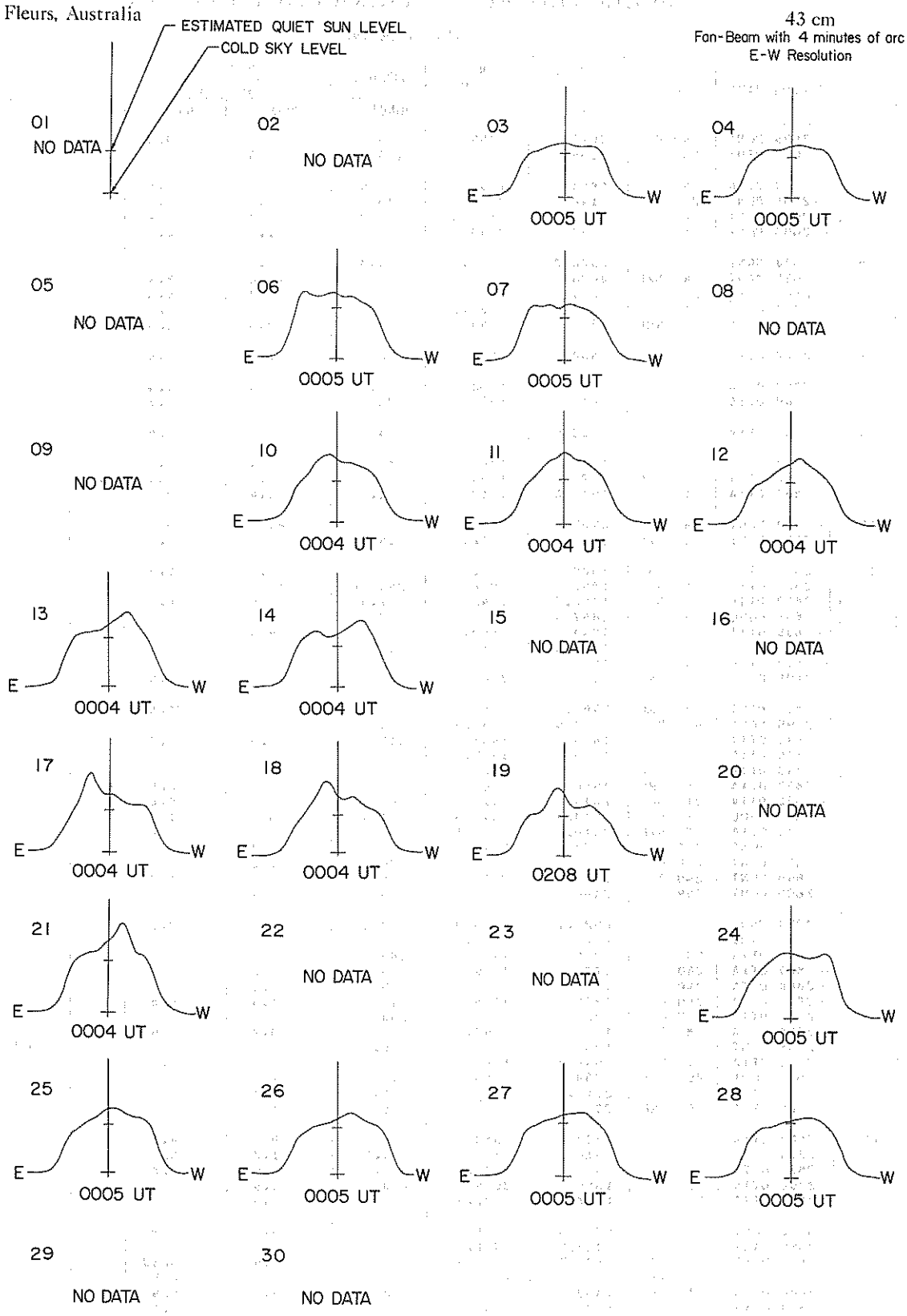


EAST-WEST SOLAR SCANS

NOVEMBER 1975

Fleurs, Australia

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



SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS

NOVEMBER 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
4	2695	PENT	240 R	2010	2054	44	1.6	0.8		
	2695	PENT	24P R	2054		120 D	1.6			
5	2800	OTTA	8 S	1853	1853.2	0.5	3	1.5		
	2695	PENT	21 GRF	2140	2150	35	1.6	0.8		
	2695	PENT	8 S	2141.2	2141.9	0.8	0.8	0.4		
	2695	PENT	1 S	2143	2143.2	1	1.2	0.6		
6	8800	MANI	1 S	0626.2	0627.7	3.8	7.3	2.4		
	2695	MANI	4 S/F	0626.2	0627.7	5	24.2	9.4		
	2800	OTTA	23 GRF	1700	1715	70	1.2	0.6		
	2800	OTTA	1 S	1703.8	1704.2	1	1	0.5		
	2800	OTTA	20 GRF	1814	1840	40	0.6	0.3		
7	2800	OTTA	32 ABS	1430	1442	46	-1.6	-0.8		
8	2800	OTTA	1 S	1851.7	1852	2.5	0.8	0.4		
	2800	OTTA	20 GRF	1919	1922	23	1	0.8		
9	2800	OTTA	1 S	1922.9	1924.5	3	0.8	0.4		
10	2800	OTTA	20 GRF	1300	1345	80	2.4	1.4		
	2800	OTTA	20 GRF	1425	1435	75	2.8	1.4		
	2800	OTTA	1 S	1911.8	1912	1.5	1.4	0.7		
14	8800	MANI	4 S/F	0405	0410.2	14	340	95		
	2695	MANI	4 S/F	0405	0411.5	14.8	129	42.5		
15	2800	OTTA	20 GRF	1620	1710	75	0.8	0.4		
	2800	OTTA	21 GRF	1840	1937	240 D	11			
	2800	OTTA	1 S	1842.5	1842.9	1.5	2.6	0.9		
	2695	BOUL	45 C	1847.5	1848	2.5	2	1		
	2800	OTTA	45 C	1848	1849.5	7	4.6	2		
	2695	BOUL	40 F	1912.5	1914	25.5	4	1		
	2800	OTTA	40 F	1913	1914	22	5.4			
	2695	PENT	20 GRF	2140	2147	20	1.2	0.6		
16	8800	MANI	20 GRF	0540.2	0544.5	22.3	49.7	21.6		
	2695	MANI	46 C	0538.4	0544.4	26.2	152	47		
	2800	OTTA	21 GRF	1435	1455	110	4.6	2.3		
	2800	OTTA	1 S	1455	1455.2	2	3	1.5		
	2800	OTTA	20 GRF	1720	1722	18	1	0.5		
	2800	OTTA	20 GRF	1900	1907	28	1	0.5		
	2800	OTTA	21 GRF	2010	2018	40	1.6	0.8		
	2695	BOUL	1 S	2013.5	2014.5	1.5	3	1		
	2800	OTTA	2 S/F	2014.2	2015.1	1	3	1.7		
	2695	PENT	240 R	2050	2118	18	1.2	0.6		
	2695	PENT	24P R	2118		28	1.2			
	2695	PENT	240 R	2136	2144	8	2.4	1.2		
	2695	PENT	24P R	2144		60 D	2.4			
17	8800	MANI	1 S	0521.1	0523.9	8.9	5	2.5		
	2695	MANI	1 S	0521.1	0523.8	8.9	2.5	.6		
	2800	OTTA	20 GRF	1300 E	1410	185 D	6.6			
	2800	OTTA	240 R	1700	1715	15	1.2	0.6		
	2800	OTTA	24P R	1715		55	1.2			
	2800	OTTA	240 R	1810	1825	15	1.6	0.8		
	2800	OTTA	24P R	1825		240 D	1.6			
	2800	OTTA	8 S	1843	1843.1	0.5	3.2	1.6		
	2695	PENT		1843	1843.1	0.5				NULL
	2800	OTTA	1 S	1944.2	1945	5	1.2	0.6		
	2695	PENT	20 GRF	2000	2005	15	1	0.5		
	2800	OTTA	1 S	2018.9	2019	1.5	0.8	0.4		
	2800	OTTA	20 GRF	2025	2040	30	1	0.5		
18	2800	OTTA	23 GRF	1309	1359	290	9	4.5		
	2800	OTTA	8 S	1314	1314.3	0.5	1.2	0.6		
	2800	OTTA	1 S	1330	1330.5	1.5	1.6	0.8		
	2800	OTTA	23 GRF	1855	2028	220 D	10.6			
	2800	OTTA	40 F	1907	1921.5	23	2.6			
19	8800	MANI	1 S	0329.5	0331.2	3.2	8.8	2.9		
	2695	MANI	1 S	0328.9	0331.2	5.3	6.9	3.2		
	2695	MANI	4 S/F	0721.7U	0724.5	6 U	12.6	6.3U		RFI
	2800	OTTA	21 GRF	1325	1345	92	1	0.5		
	2800	OTTA	2 S/F	1339	1340	2	0.8	0.4		
	2800	OTTA	22 GRF	1600	1630	80	2.2	1.1		
	2800	OTTA	27A RF	1727		183	1.8	1.4		
	2800	OTTA	24 R	1727	1755	28	1.8	0.9		
	2800	OTTA	24P R	1755		115	1.8			
	2800	OTTA	21 GRF	1845	1858	25	1.8	0.9		
	2800	OTTA	8 S	1847.8	1847.8	0.1E	1.7			
	2695	PENT	20 GRF	1850	1851	14	2	0.9		
	2800	OTTA	46F C	1849	1849.9	4.5	10.6	2.4		

SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS
NOVEMBER 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
	2800	OTTA	26	FAL	1950	2130	40	-1.8	-0.9		
	2695	PENT	1	S	2101.5	2103	10	0.8	0.4		
20	2800	OTTA	27F	RF	1305		210	2	1.7		
	2800	OTTA	24	R	1305	1340	35	2	1		
	2800	OTTA	24P	R	1340		140	2			
	2800	OTTA	26	FAL	1600	1635	35	-2	-1		
	2800	OTTA	27F	RF	1700		130	1.2	0.8		
	2800	OTTA	24	R	1700	1750	50	1.2	0.6		
	2800	OTTA	24P	R	1750		50	1.2			
	2800	OTTA	26	FAL	1840	1910	30	-1.2	-0.6		
	2800	OTTA	20	GRF	1935	1950	35	1.6	0.8		
	2800	OTTA	20	GRF	2045	2050	15	0.8	0.4		
21	2695	MANI	28	PRE	0605.8	0614	8.7	16	5.7		
	2695	MANI	8	S	0615.5	0615.9	.6	95	35.7		
	8800	MANI	4	S/F	0607.9	0619.1	57.9	89	47.4		
	2695	MANI	46	C	0614.5	0618.8	49.4	190	95		
	8800	MANI	29	PBI	0705.8	0705.8	47	25.3	15.8		
	2695	MANI	29	PBI	0703.9	0703.9	55.1	30.2	11.4		
	2695	BOUL	45	C	1817	1819.5	9.5	65	23		
23	2800	OTTA	1	S	1441	1442	3	0.8	0.4		

Observatories:

BOUL = Boulder MANI = Manila OTTA = Ottawa ARO PENT = Penticton

Explanation of Type Code:

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

Note: The report from Sagamore Hill is not included here because of late arrival of data.

SOLAR WIND

Interplanetary Scintillations

NOVEMBER 1975

UCSD 74MHZ 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	334	62											425	107		
2	372	24									366	24	502	179	366	35
3	365	23					496	170					750	366	367	25
4	319	47									633	98	661	260		
5	386	33									711	*	935	377		
6	318	127	281	77							824	209	818	227		
7													721	281		
8											511	135	641	198		
9			717	212					534	147						
10	431	*			446	*					475	*			367	18
11	329	*	440	*			453	*			601	*	674	*	438	*
13			282	120									442	70		
14													376	*		
15											595	118	429	89		
16													558	153		
17	379	34	519	78												
18	363	48	445	46	482	*									285	92
19	363	60	463	25			790	313							239	20
21													596	122	274	119
22															323	34
23	335	46							507	63						
24	303	*														
25	359	88											468	108		
26											622	121				
27													545	129		
28			418	92												
29	385	18	382	31							625	84	575	75	413	13
30	306	8					354	*							529	18

NOVEMBER	5				15				25			
	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON
3C48	7.	8.	1.28	-1.	6.	8.	1.27	-3.	6.	7.	1.26	-5.
3C144	11.	2.	1.24	9.	10.	1.	1.27	7.	10.	0.	1.29	5.
3C147	10.	9.	1.22	9.	9.	8.	1.24	8.	9.	6.	1.26	6.
3C161	12.	-4.	1.18	10.	12.	-5.	1.21	8.	11.	-6.	1.23	6.
3C237	16.	0.	0.95	17.	15.	0.	1.00	17.	15.	-1.	1.06	16.
3C273	18.	3.	0.61	52.	17.	1.	0.74	42.	17.	0.	0.85	32.
3C298	20.	47.	0.39	59.	19.	31.	0.50	56.	18.	20.	0.62	50.
3C459	4.	6.	1.21	-11.	4.	6.	1.17	-13.	3.	5.	1.13	-14.

* indicates data for which no error estimate is available, because only two antennas were operating.

SOLAR X–RAYS BY SATELLITE
SMS GOES

NOVEMBER 1975

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

MO 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
11/ 1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B
11/ 2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.05	B	B	B	B	B
11/ 3	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
11/ 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
11/ 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
11/ 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
11/ 7	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
11/ 8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.48	0.02
11/ 9	B	B	B	B	B	B	0.06	B	M	B	B	B	M	M	B	B	B	B	B	B	B	M	B	0.13	B
11/10	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	B	B	0.01	0.59	B	B	B	B	0.03
11/11	B	B	B	B	B	B	0.05	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/12	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
11/13	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	B	B	B	0.20	B	B	M	B	B
11/14	B	B	B	B	B	B	B	0.03	0.07	B	0.29	M	M	M	M	B	B	B	B	B	B	B	B	B	0.02
11/15	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	0.01	B	B	B	B	B
11/16	B	B	B	B	B	0.03	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/17	B	B	B	B	B	B	B	B	B	B	B	0.01	0.02	B	B	B	B	B	B	B	B	M	B	B	B
11/18	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	0.02	B	B	B	B
11/19	B	B	B	B	B	B	B	B	B	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B	B
11/20	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.03	B	B	0.03	B
11/21	B	B	B	B	B	B	0.10	0.02	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/22	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
11/23	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.06	B	B	B	B	B
11/24	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	0.09	B	B	B	B	B
11/25	B	B	M	B	B	B	0.09	B	B	B	B	B	B	B	B	M	M	B	B	B	B	B	B	B	B
11/26	B	B	B	B	B	B	0.07	B	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/27	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
11/28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/29	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
11/30	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

Note: "B" indicates the flux was below the cut-off levels.
"M" denotes periods of missing data.

SOLAR X-RAYS BY SATELLITE
SMS GOES
NOVEMBER 1975

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

MO 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
11/ 1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B
11/ 2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.06	B	B	B	B	B
11/ 3	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
11/ 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
11/ 5	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B	B	B	B	B
11/ 6	B	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/ 7	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
11/ 8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.08	0.01
11/ 9	B	B	B	B	B	B	0.07	B	M	B	B	B	M	M	B	B	B	B	B	B	B	M	B	0.06	B
11/10	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	B	B	0.04	0.95	B	B	B	B	0.04
11/11	B	B	B	B	B	B	0.05	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/12	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
11/13	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	B	B	B	0.24	B	B	M	B	0.01
11/14	B	B	B	B	0.01	B	B	B	0.02	0.02	0.20	M	M	M	M	0.06	B	B	B	B	B	B	B	B	0.02
11/15	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	0.03	0.02	0.01	B	B	B
11/16	B	B	B	B	B	0.03	0.03	B	B	B	B	B	B	B	B	0.02	B	B	B	B	B	0.01	0.03	B	B
11/17	B	B	B	B	B	0.01	B	B	B	B	B	0.01	0.04	0.01	0.01	B	B	B	B	B	B	M	B	B	B
11/18	B	B	B	B	B	B	B	B	B	B	B	0.01	B	0.01	0.02	0.01	B	B	B	0.03	0.07	0.03	0.02	0.01	B
11/19	B	B	B	B	B	B	B	0.01	B	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B	B
11/20	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.05	B	B	0.03	B
11/21	B	B	B	B	B	B	0.12	0.05	0.02	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/22	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
11/23	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.06	B	B	B	B	B
11/24	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	0.09	B	B	B	B	B
11/25	B	B	M	B	B	B	0.09	B	B	B	B	B	B	B	B	M	M	B	B	B	B	B	B	B	B
11/26	B	B	B	B	B	B	0.07	B	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B
11/27	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
11/28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11/29	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
11/30	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

Note: "B" indicates the flux was below the cut-off levels.
"M" denotes periods of missing data.

SOLAR X-RAYS BY SATELLITE

SMS GOES

NOVEMBER 1975

DAY	BEGIN TIME	.5-4A Wm^{-2}	1-8A Wm^{-2}	MAX TIME	.5-4A Wm^{-2}	1-8A Wm^{-2}	1/2P TIME	.5-4A Wm^{-2}	1-8A Wm^{-2}
5	1844	0.0E+00	4.0E-08	1904	2.6E-07	4.7E-06	1910	7.1E-08	2.4E-06
6	0113	8.6E-10	3.6E-07	0120	4.8E-07	6.1E-06	0124	9.2E-08	3.3E-06
6	0918	1.5E-10	1.9E-07	0924	2.7E-07	3.9E-06	0928	6.4E-08	2.0E-06
14	0404	0.0E+00	1.4E-07	0412	7.3E-07	7.2E-06	0420	1.4E-07	3.6E-06
15	1139	0.0E+00	1.0E-07	1147	2.2E-07	4.1E-06	1156	4.3E-08	2.1E-06
15	1844	5.0E-09	2.4E-07	1956	7.5E-07	4.1E-06	2042	4.3E-08	2.2E-06
16	0536	9.9E-09	4.5E-07	0551	1.0E-06	1.1E-05	0610	2.5E-07	5.5E-06
16	1113	3.6E-09	4.4E-07	1119	3.2E-07	4.1E-06	1121	1.7E-08	2.3E-06
16	2146	8.6E-08	2.3E-06	2202	7.1E-08	3.3E-06	2204	6.7E-08	2.8E-06
21	0608	4.2E-09	3.3E-07	0629	2.0E-06	2.3E-05	0656	5.6E-07	1.2E-05

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
1901	JUL 23	TA	A*	TA	A*	T	A*	T	A	A	A	A	A	A	T	A*	TA	T	T	T	A	A	A	A	TA	A	T	-
1902	AUG 19	A	-	A	-	A	A	A	A	A	A	A	A	A	TA	T	A	A	A	A	A	A	A	T	T	A	A	A
1903	SEP 15	A	A	TA	T*	A	A	A	A	A	AT	A	A	A	A	T	T	A	AT	A	A	A	A	-	A	-	A	-
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	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*	TA	AT	A	A	A	A
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
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
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	AT	T	TA
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
1910	MAR 23	T	T	T	T	T	T	T	A	T	T	T	T	T	T	TA	AT	A	T	TA	A	A	A	A	A	-	A	A
1911	APR 19	T	T	T	AT	T	T	-	A	T	T	T	AT	T	A	A	AT	T	T	T	TA	A	A	A	A	AT	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	-
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
1914	JUL 9	T	T	T	T	A	A	T	T	-	T	AT	A	T	T	A	T*	A	T*	-	A	A	AT	*	-	A	A	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
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
1917	SEP 28	A	A*	TA	A	T	AT	T	T	A	A	A	A	A	T	A	AT	A*	AT	T*	AT	AT	T	T	T	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	T	A	TA	T	T	T	AT	T
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
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	*
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
1922	FEB 10	A	-	A	-	A	*	A	A	A	A	A	A	A	TA	T	A	A	A	A	T	*	T	T	T	T	T	T
1923	MAR 9	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
1924	APR 5	A	A	A	A	A	-	TA	A	A	A	A	A	A	*	A	A	A	A	A	A	A	A	T	T	TA	TA	TA
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
1926	MAY 29	T	T	A	A	A	*	-	A	A	A	A	*	A	A	*	-	TA	*	A	A	A	A	T	T	T	T	TA
1927	JUN 25	TA	TA	A	A	-	A	-	A	A	T	A	A	A	A	A	A	A	A	-	TA	TA	-	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
1929	AUG 18	AT	-	A	-	A	-	A	-	A	-	A	-	A	-	AT	-	TA	T	T	T	T	T	T	T	T	T	T
1930	SEP 14	AT	T	T	TA	AT	A*	A	A	A	A	A	A	A	TA	A	AT	A	A	A	AT	T	T	TA	A	T	TA	T
1931	OCT 11	T	T	TA	T	A	A	A	A	A	A	A	A	A	A	A	AT	A	A	A	TA	A	A	A	T	T	AT	-
1932	NOV 7	TA	-	T	-	A	-	A	-	A	A	A	A	A	A	A	A	-	A	-	AT	-	TA	A	T	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	T
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
1935	1975 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
1936	FEB 23	TA	A	A	A	A	A*	TA	A	A	AT	A	A	A	A	A	A	A	A	AT	T	A	A	A	A	A	T	T
1937	MAR 22	A	A	A	A	TA	A	T	T	A	A*	A	A	A	A	A	AT	A*	T	A	A	A	T	*	TA	T	T	T
1938	APR 18	A	A	A	A	A	A	A	A	A	*	A	A*	A	A	-	A	A	A	A	A	A	A	T	T	A	A	A
1939	MAY 15	T	T	A	A	TA	TA	A	A	A	A	T	T	TA	TA	-	*	A	A	A	A	A	A	-	-	-	-	-
1940	JUN 11	A	A	A	A	A	A	A	A	A	A	A	*	-	-	-	-	-	-	-	A	A	A	A	TA	A	A	AT
1941	JUL 8	A	A	A	A	A	A	A	A	A	TA	A	A	A	TA*	A	A	TA	TA	A	A	T	T	A	A	A	A	A*
1942	AUG 4	A	A	A	A	A	T	A	A	T	T	AT	T	A	A	A	A	A	A	A	A	A	A	A	A	A	T	T
1943	AUG 31	A	A	A	A	TA	A*	T	T	A	A	A	A	TA	A	T	T*	A	A	A	A	A	A	A	A	*	A	A
1944	SEP 27	A	A	T	A	A	A	A	A	T	T	T	A	T	-	A	-	A	-	A	A*	A	A	A	A	A	*	AT
1945	OCT 24	T	T	T	T	T	T	T	T	T	TA	A	A	A	*	A	A	A	A	A	A	A	A	A*	A	*	A	A
1946	NOV 20	A	T	A	*	T	T	TA	T	T	A	A	T*	A	T*	A	A	A	-	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 Antarctic 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.

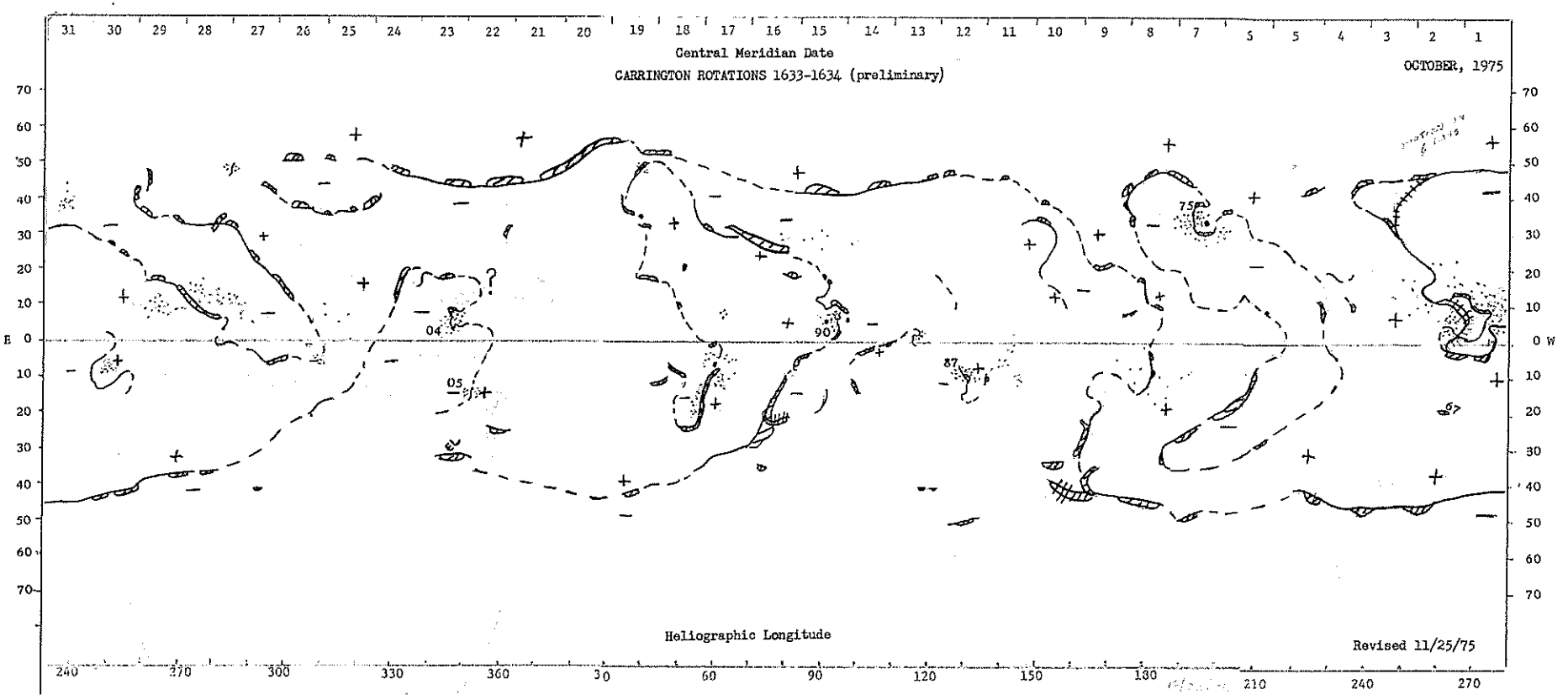
SGD 376 Part I (Prompt)

OCTOBER 1975 DATA

Contents

Hα SYNOPTIC CHART

OCTOBER 1975



27
Oct 75

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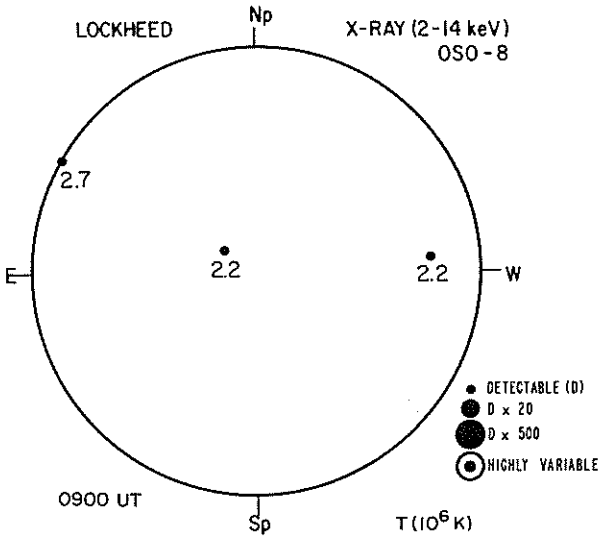

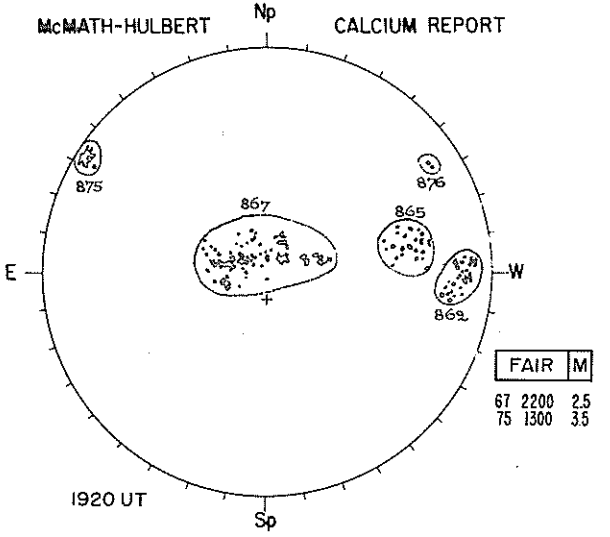

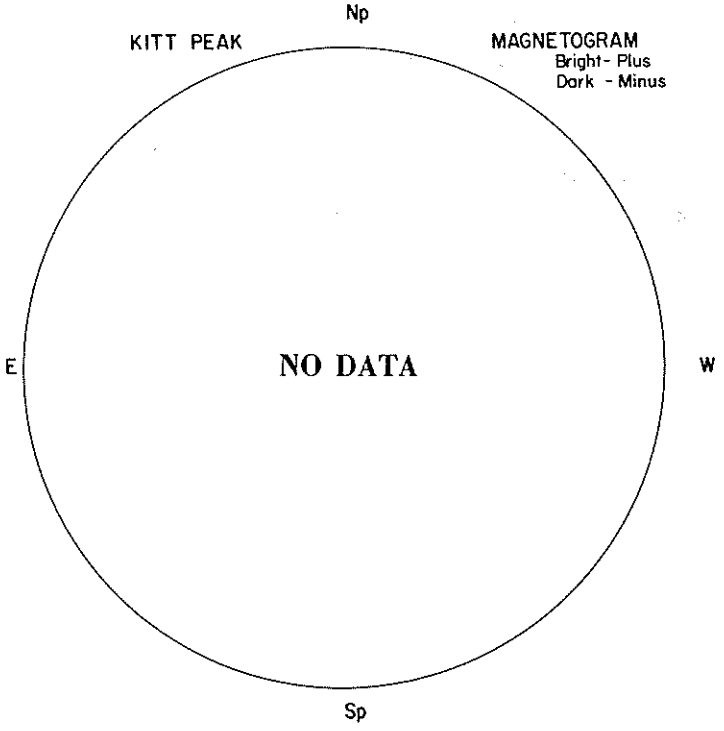

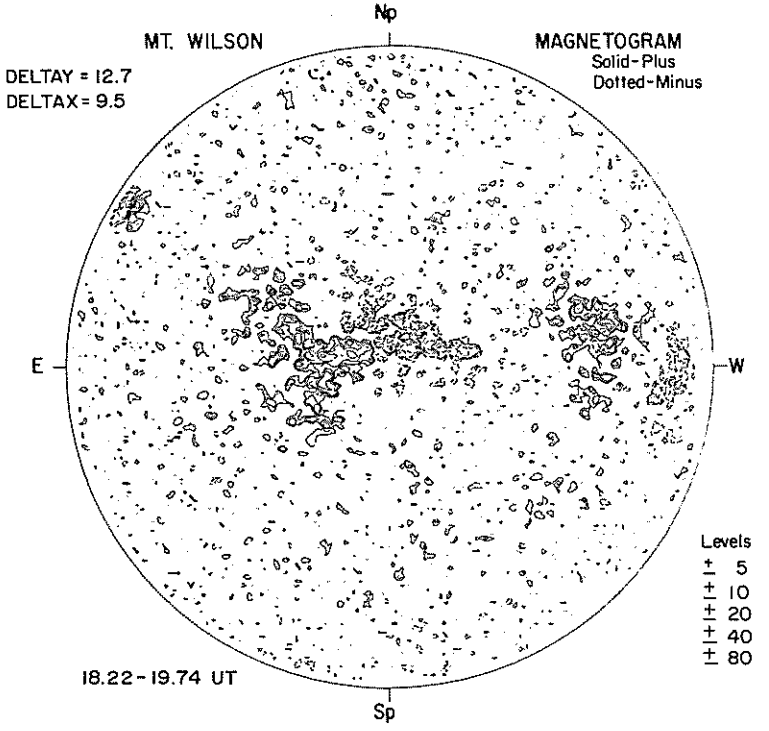

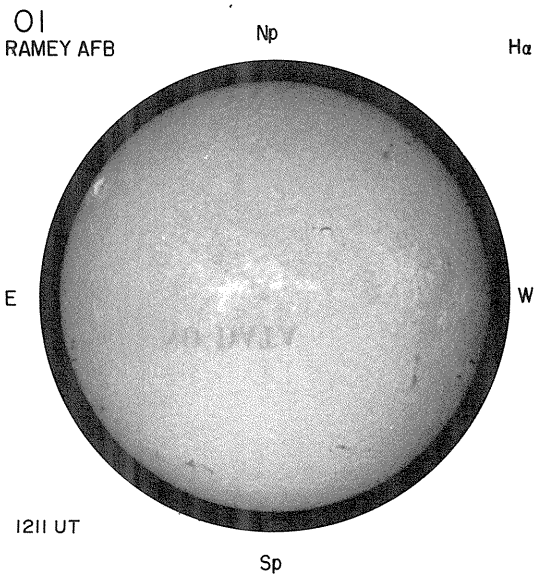
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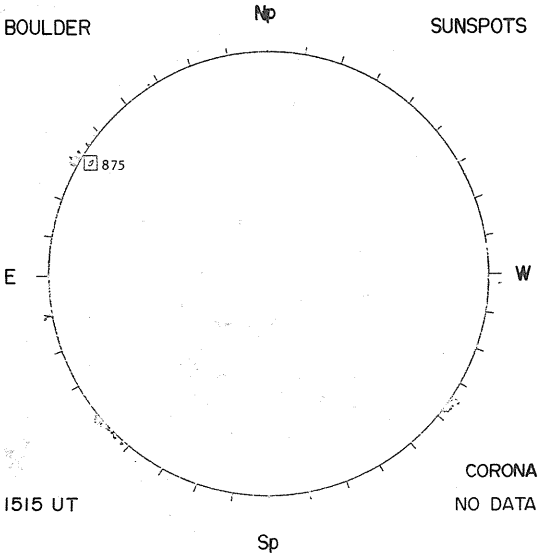
Np
Hα
E
W
1211 UT
Sp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E
W
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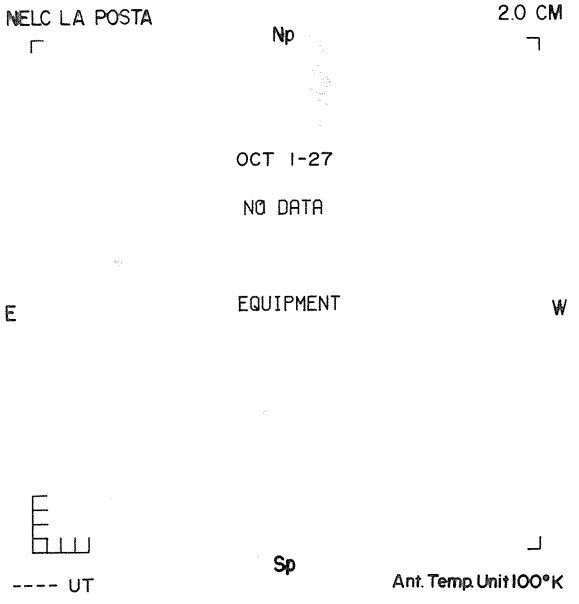
1515 UT
Sp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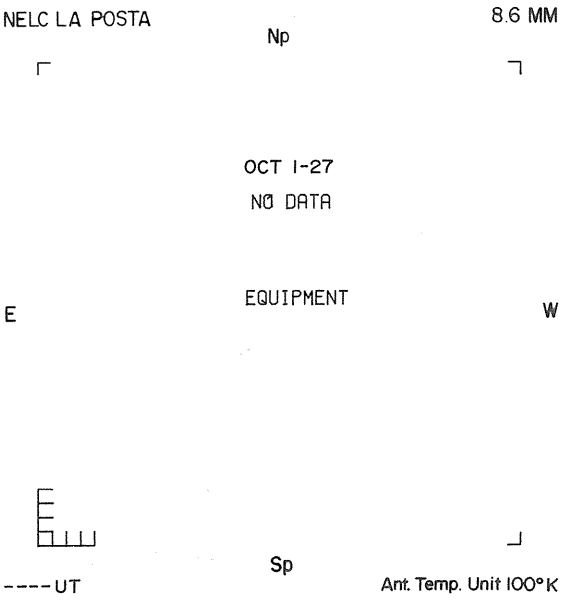
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Sp
Ant. Temp. Unit 100°K

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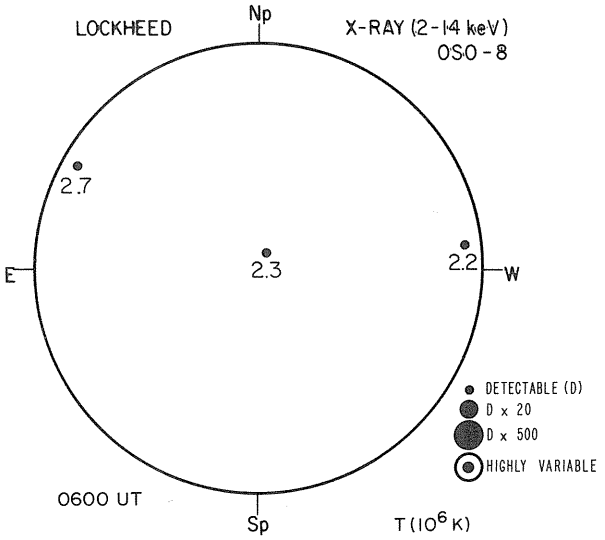

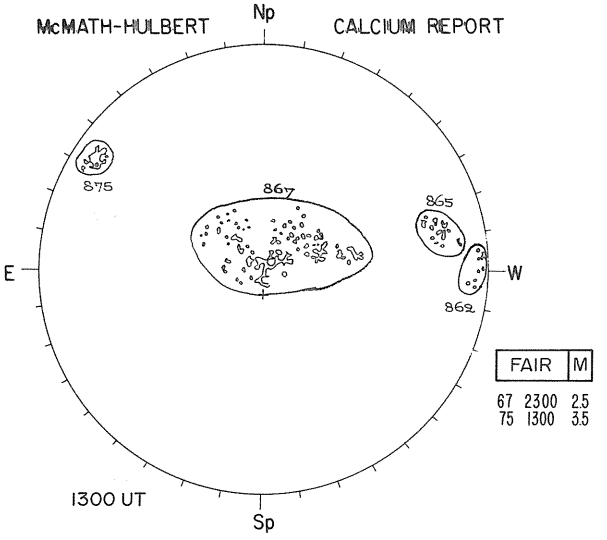

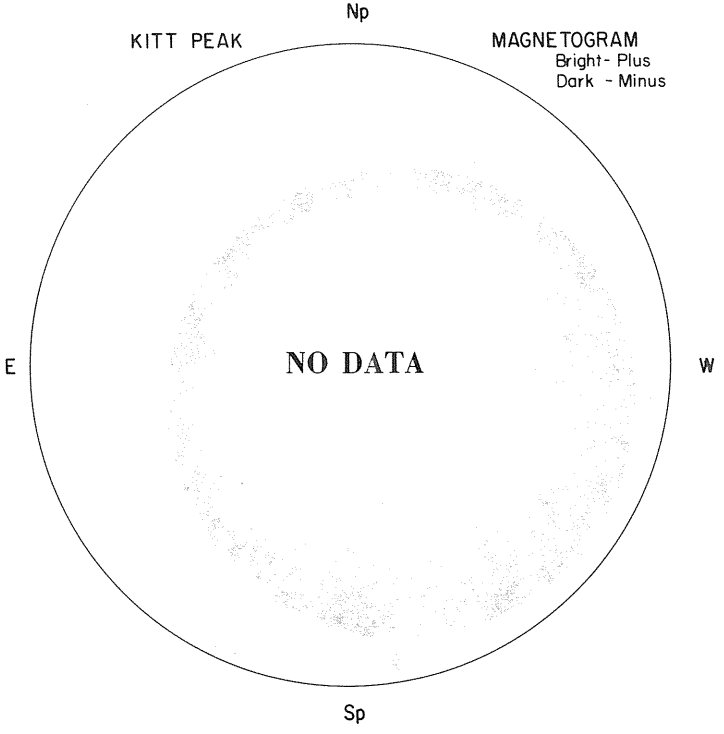

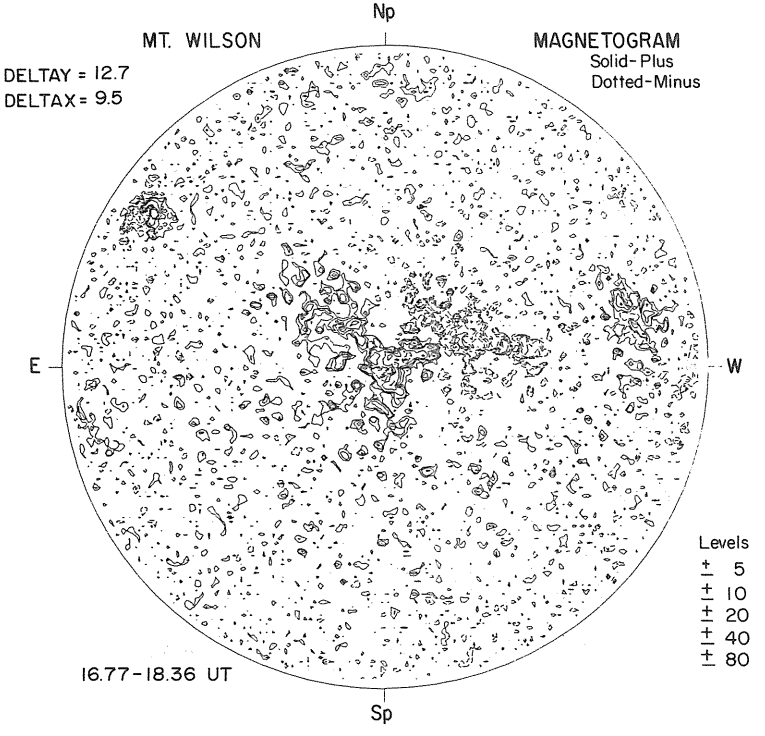

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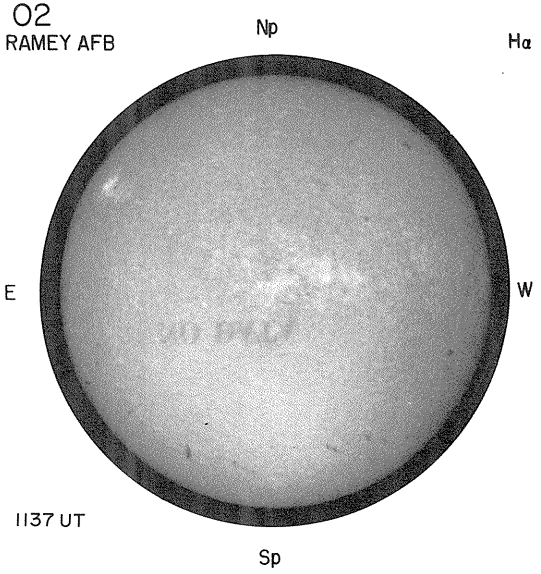

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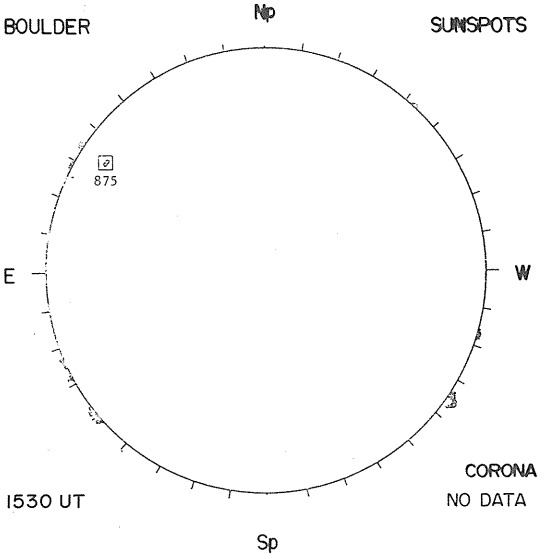

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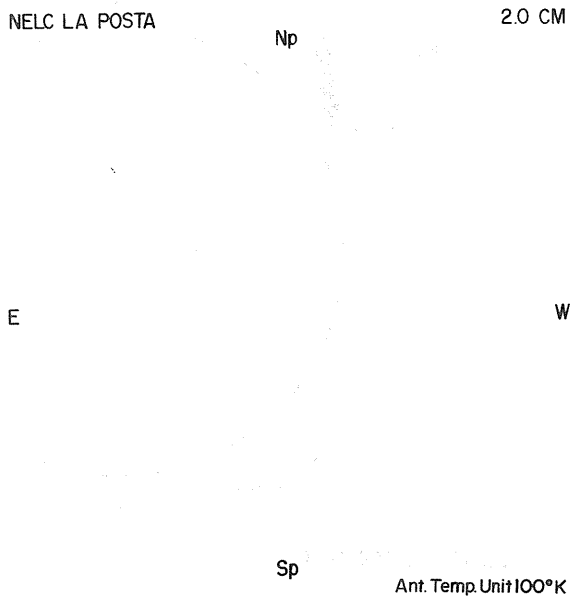

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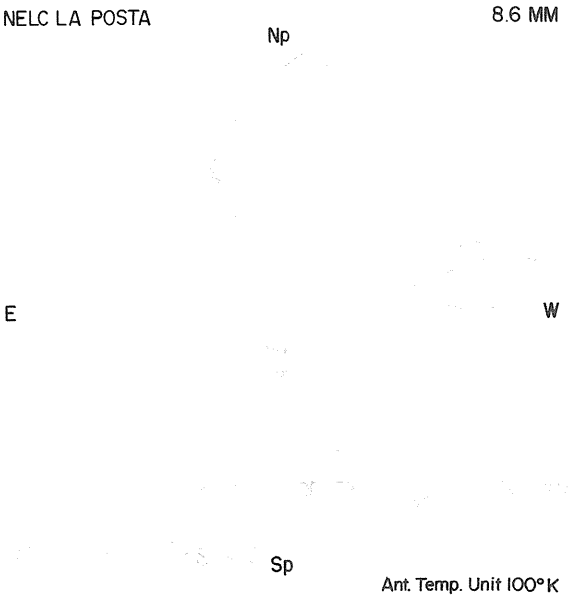

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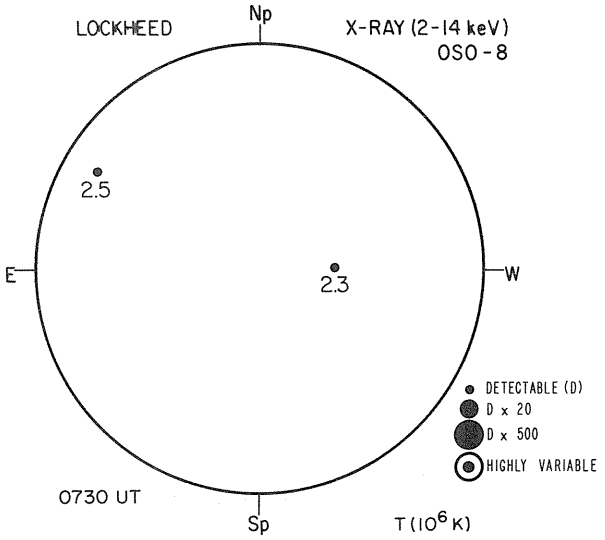

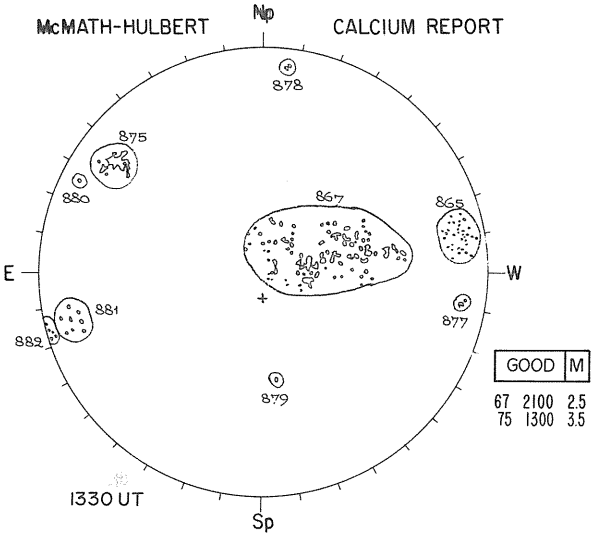

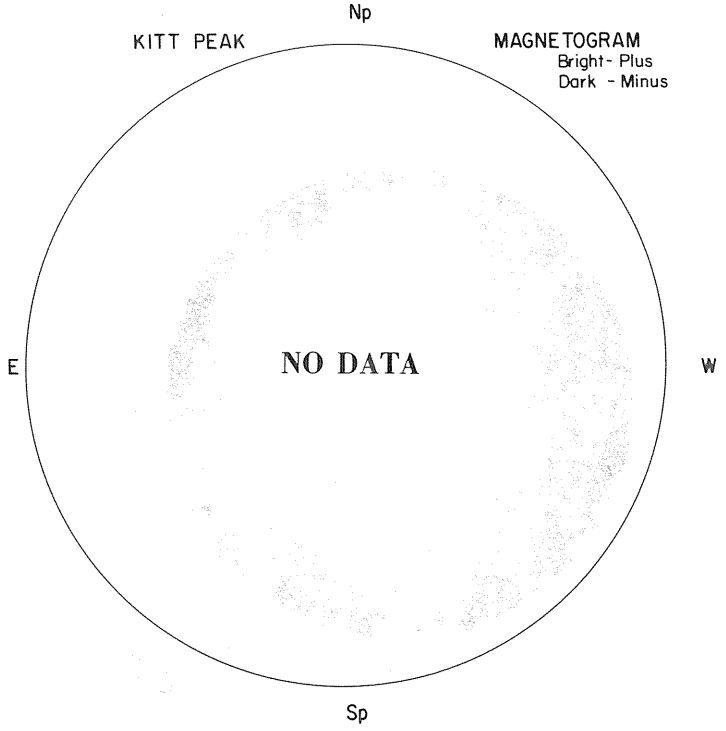

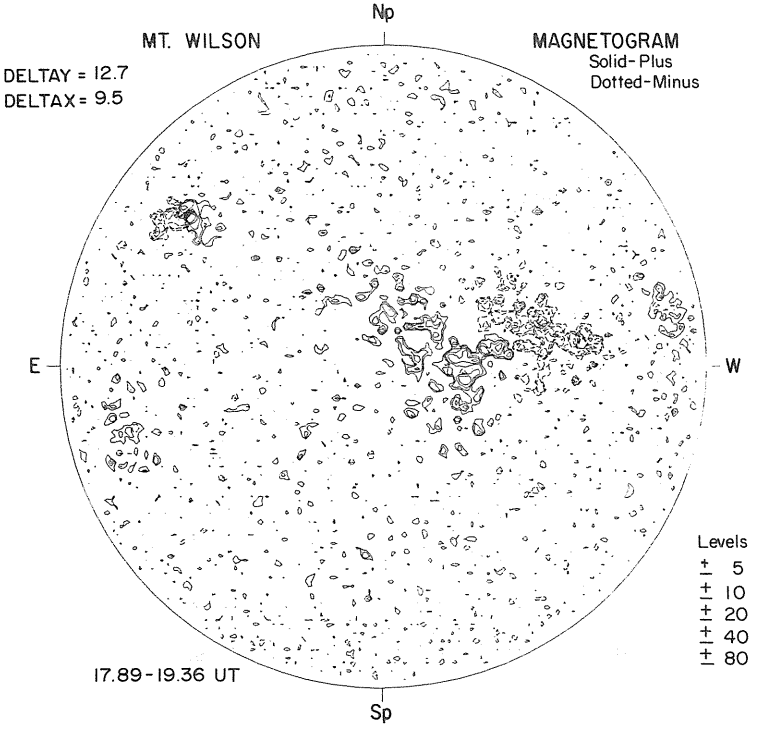

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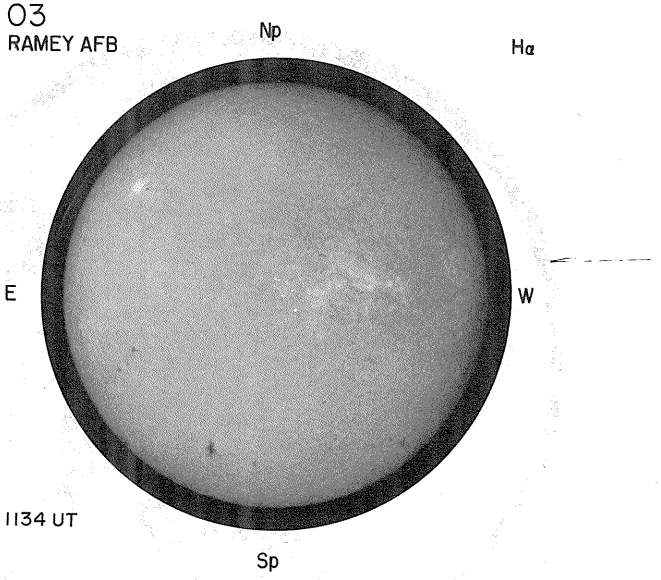

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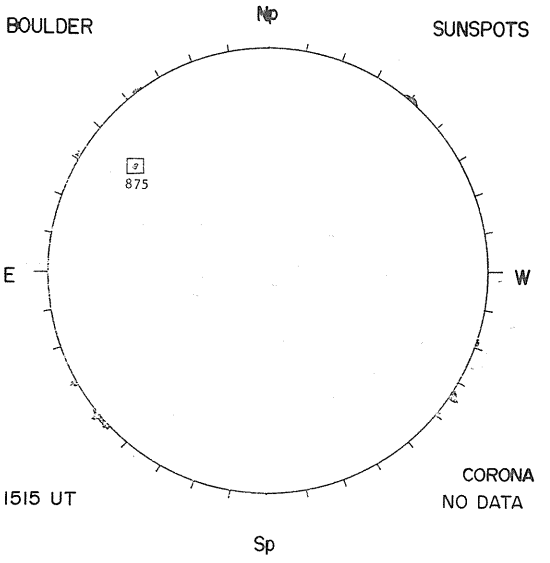

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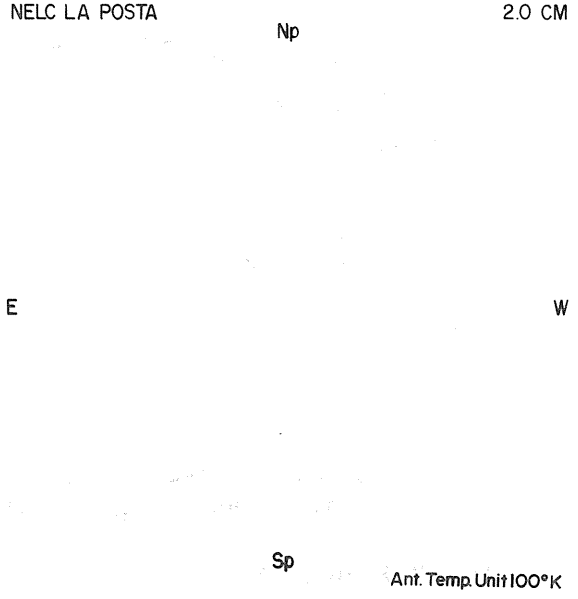

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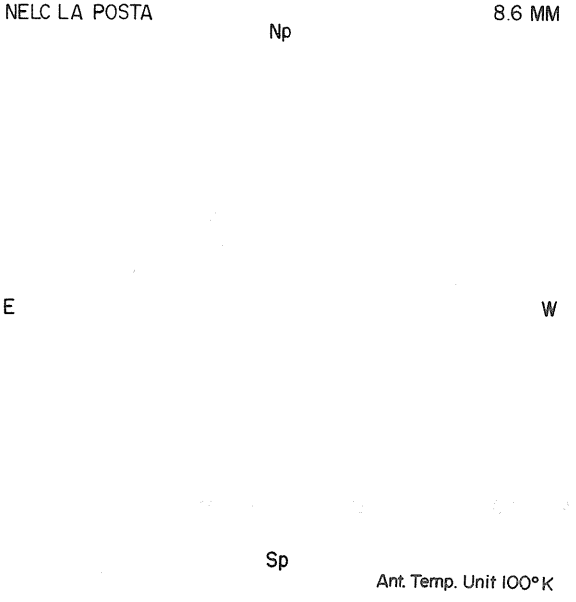

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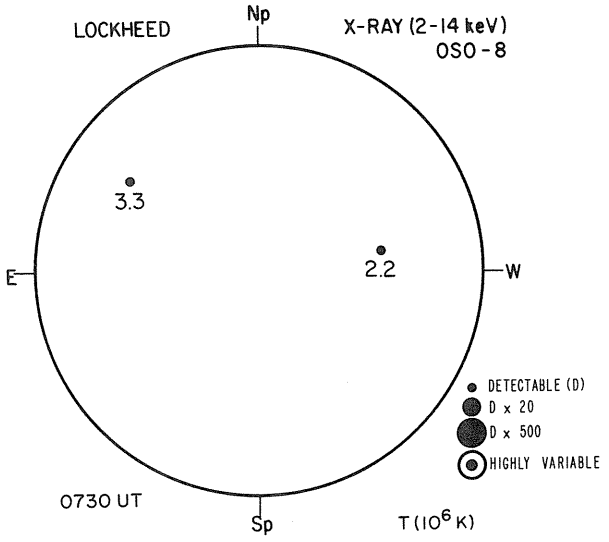

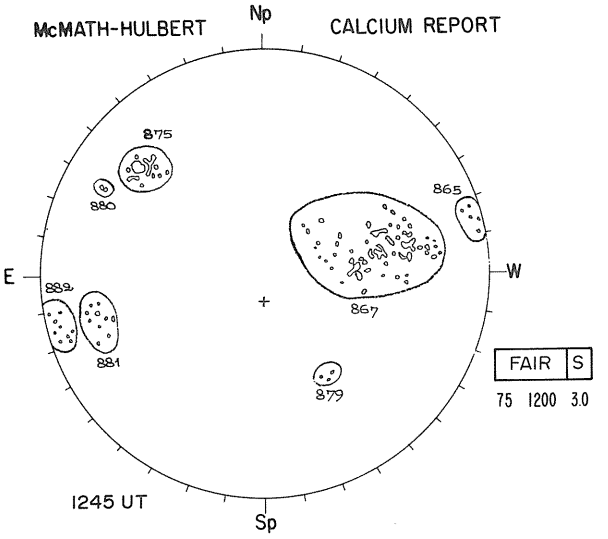

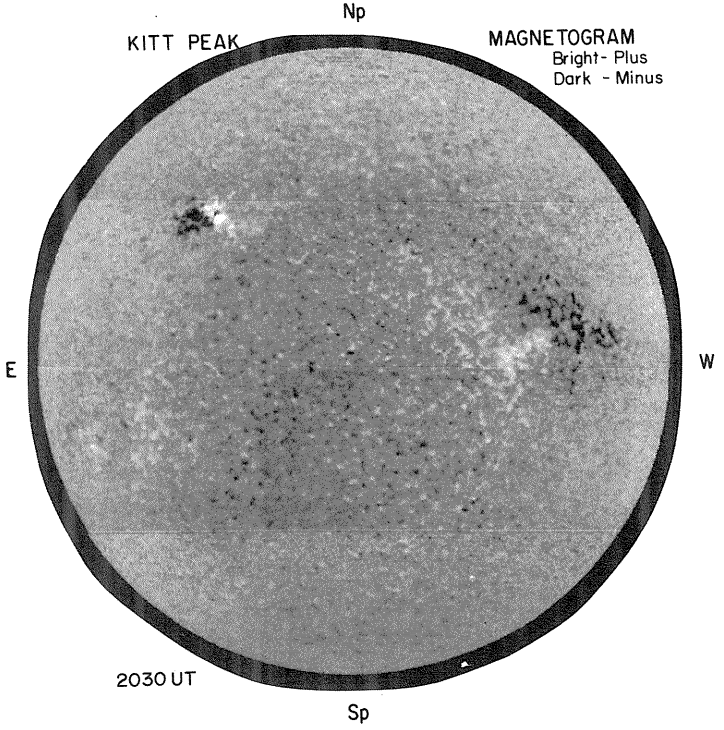

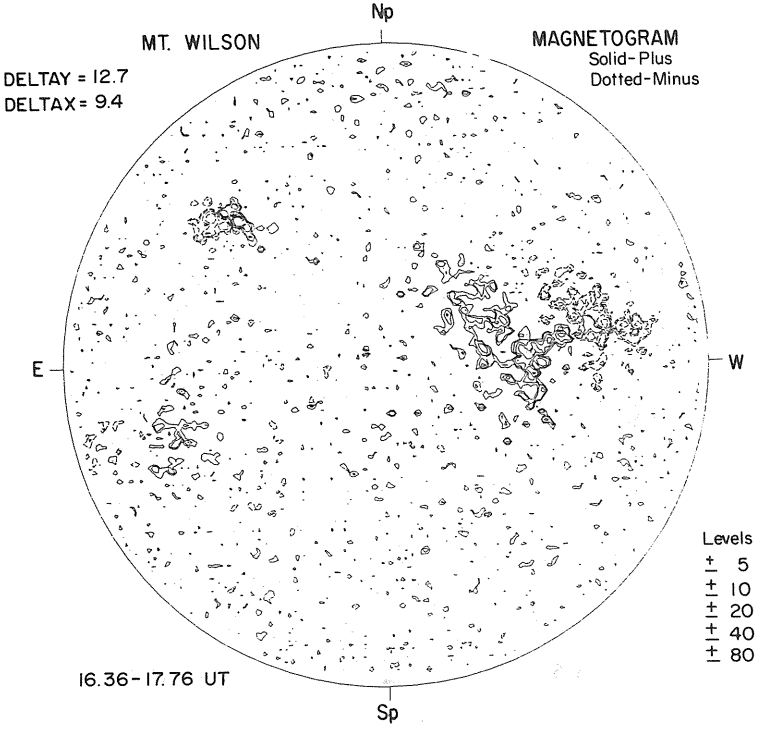

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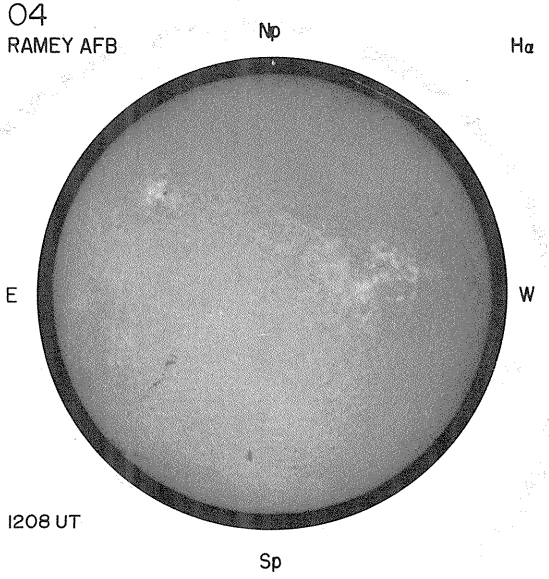

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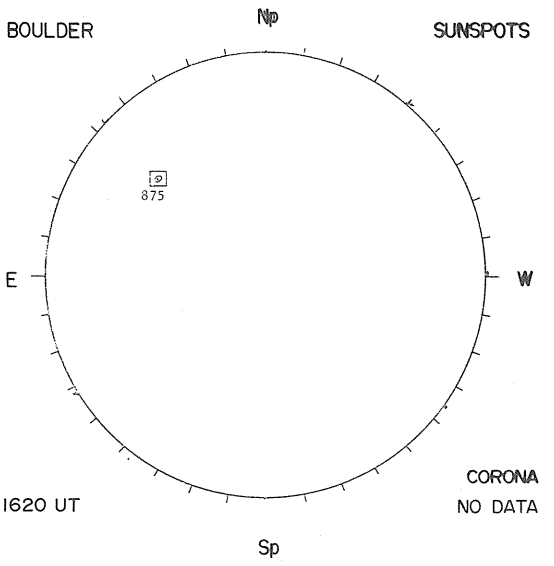

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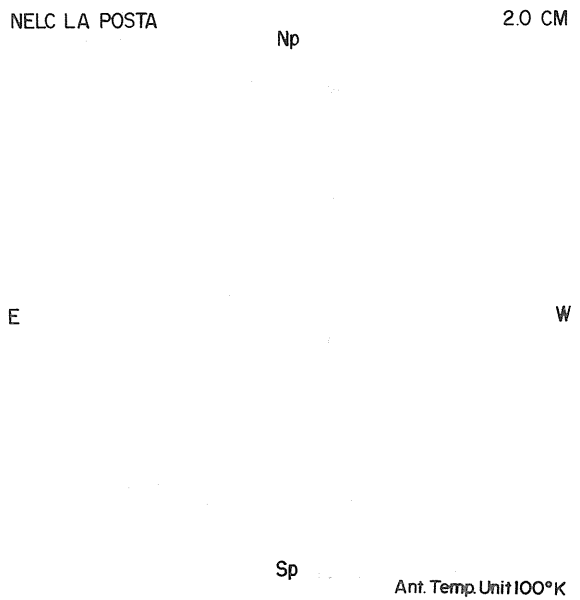

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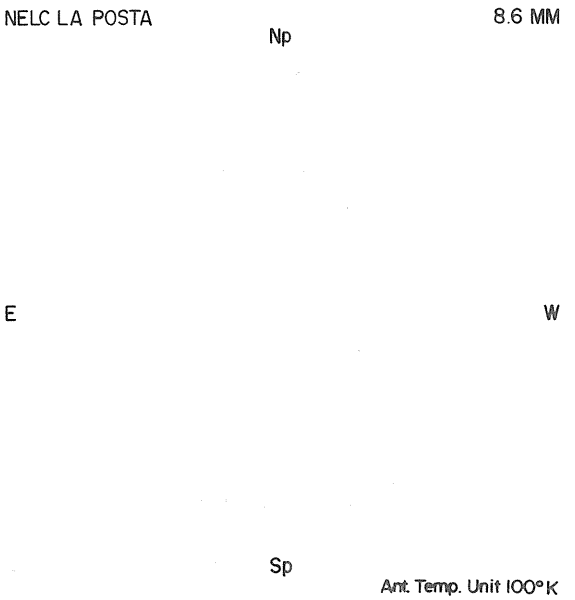

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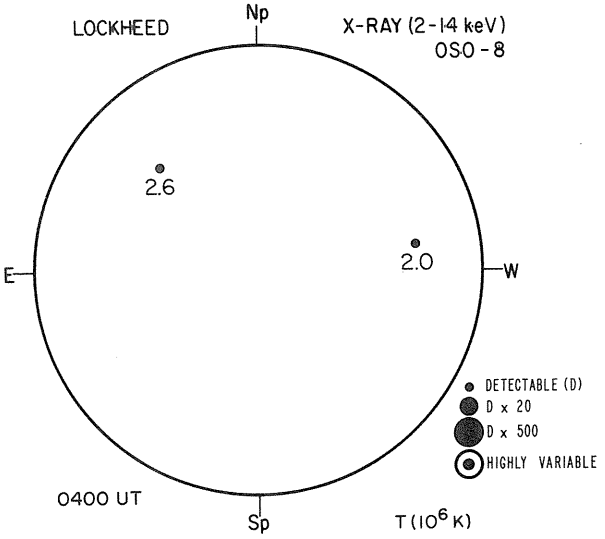

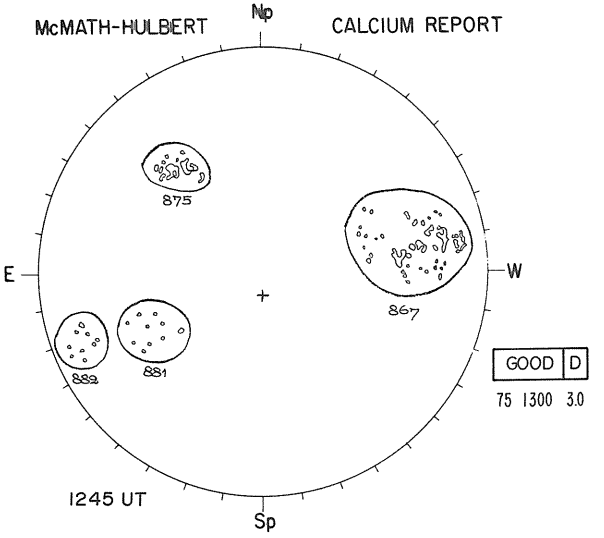

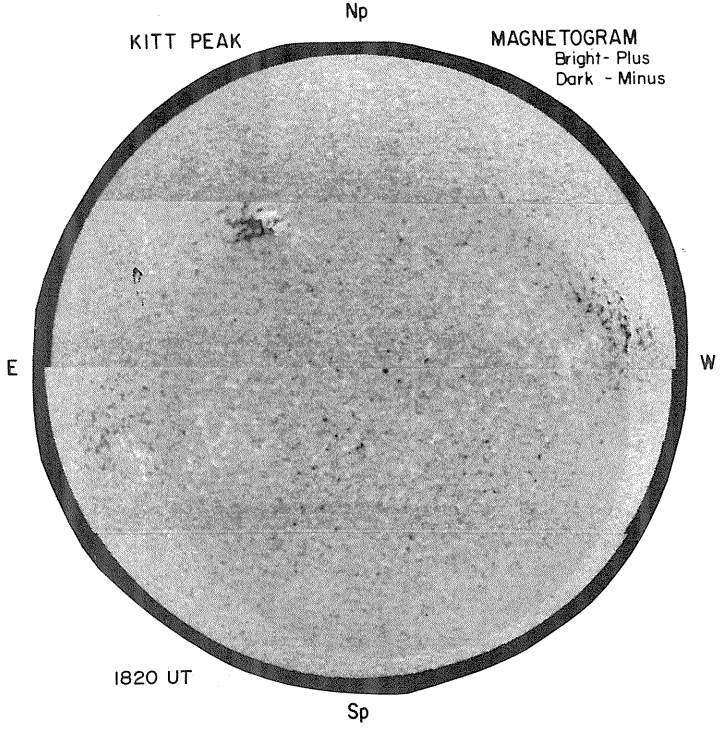

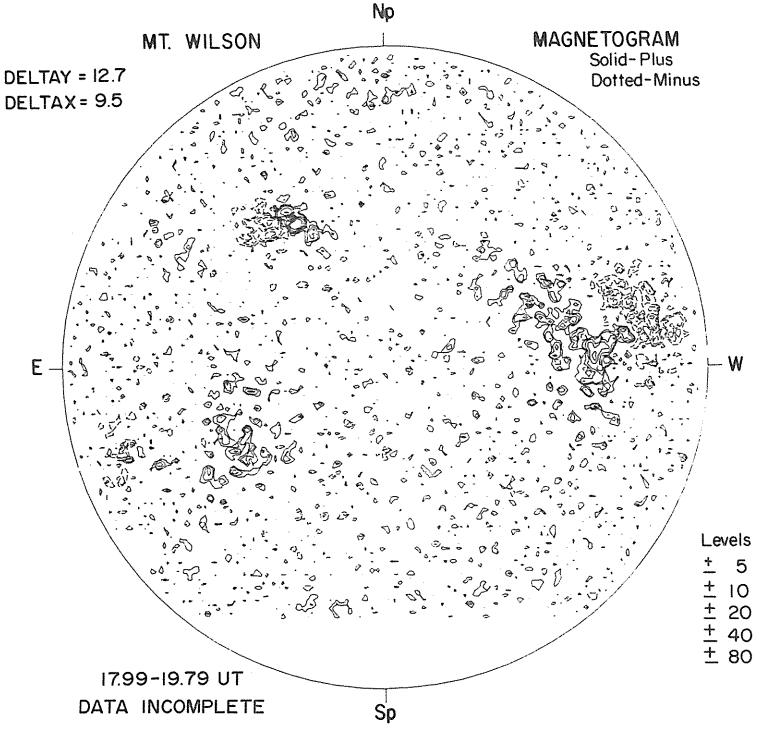

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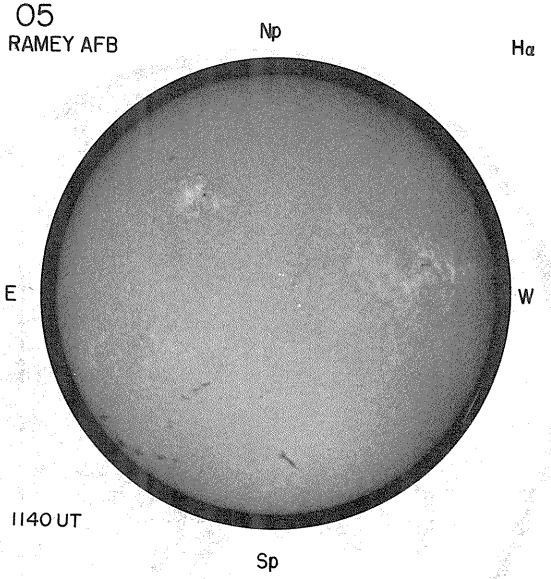

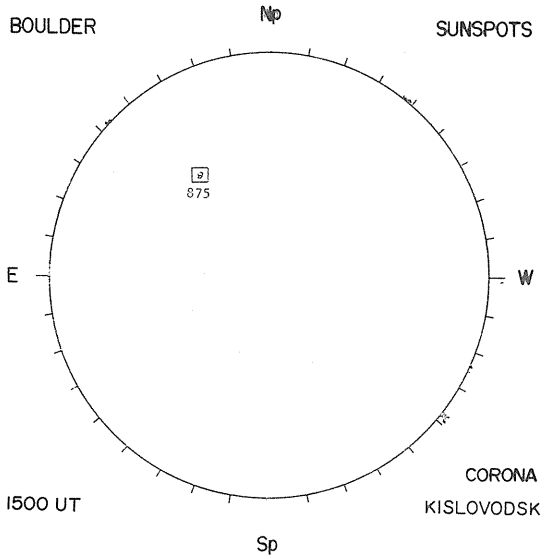

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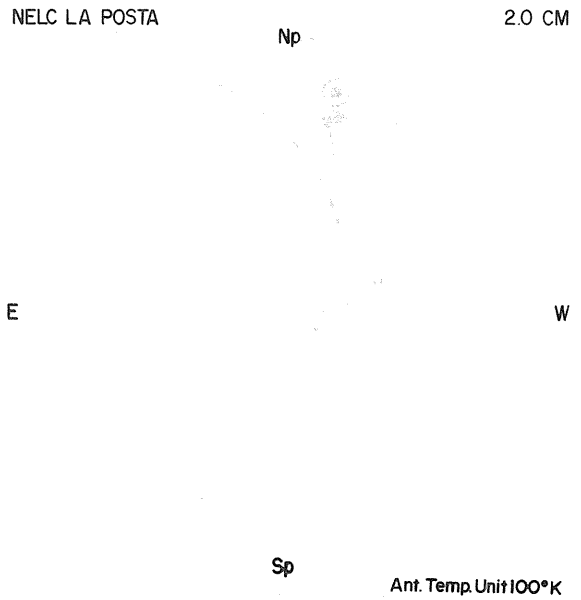

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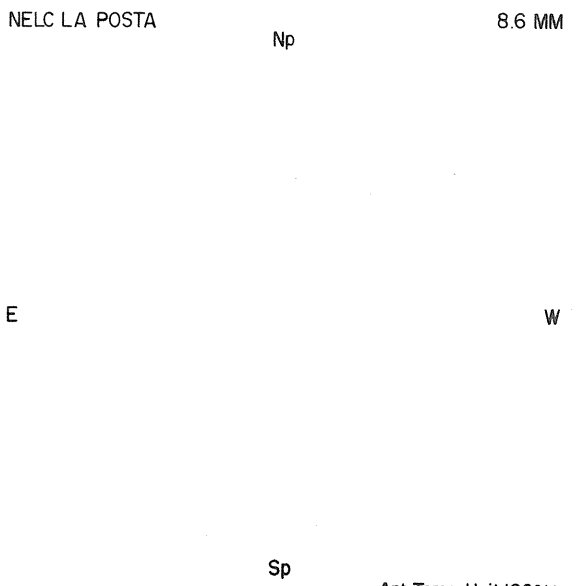

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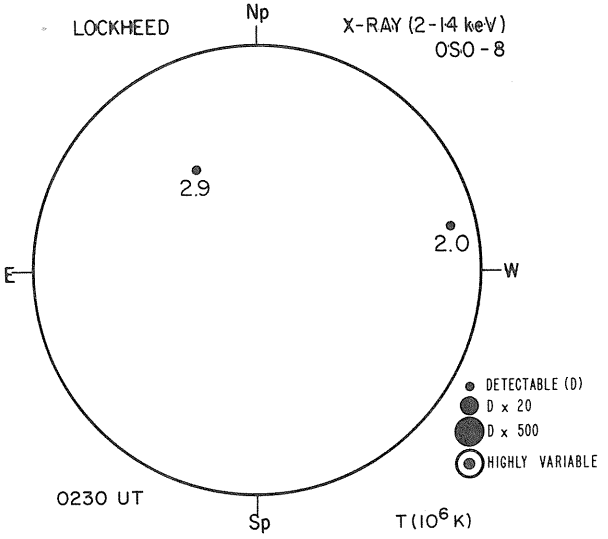

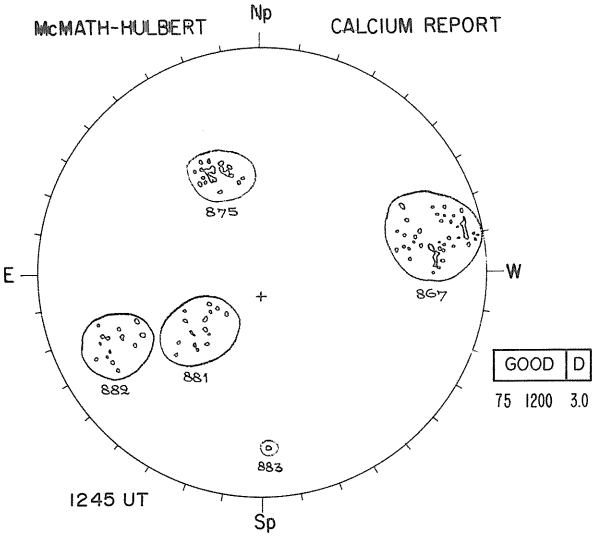

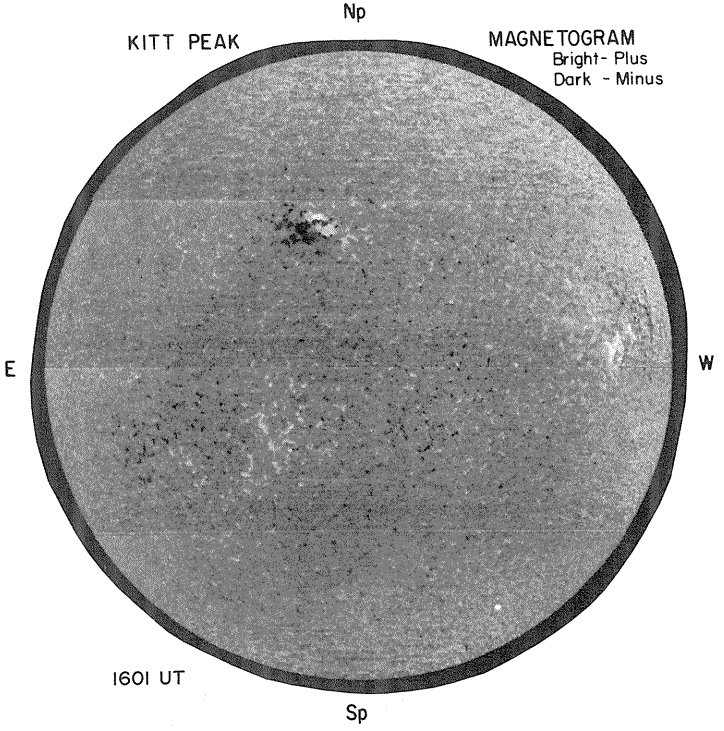

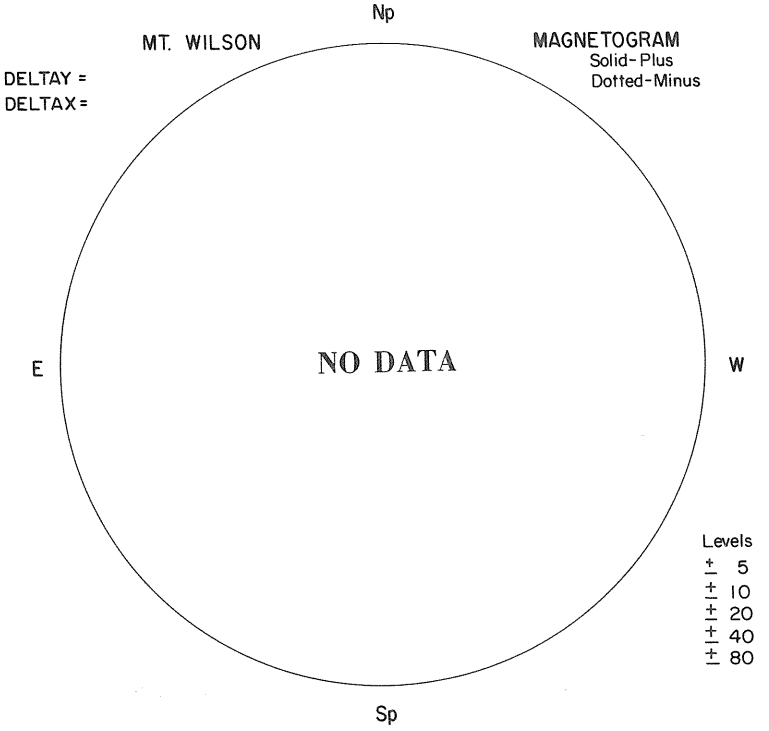

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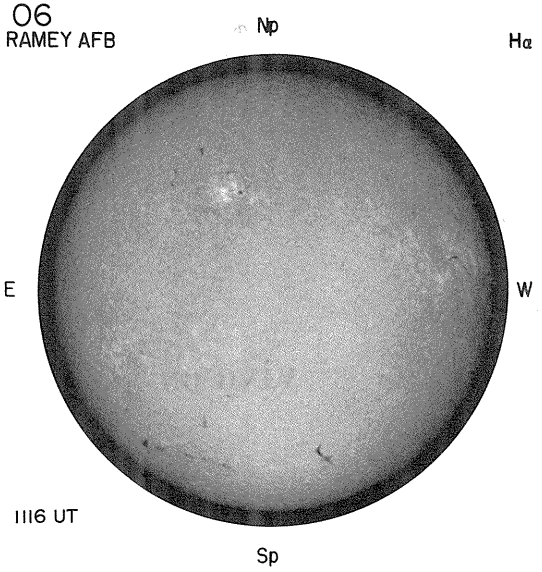

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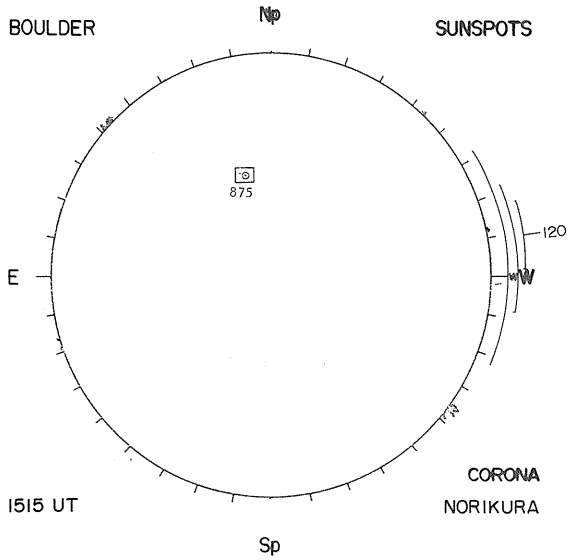

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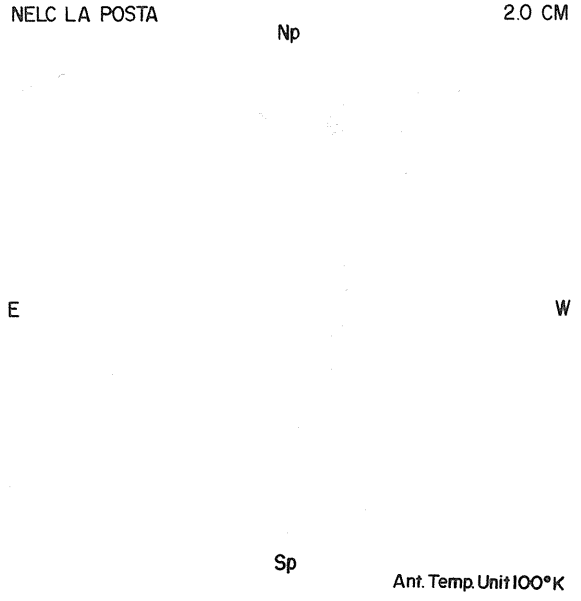

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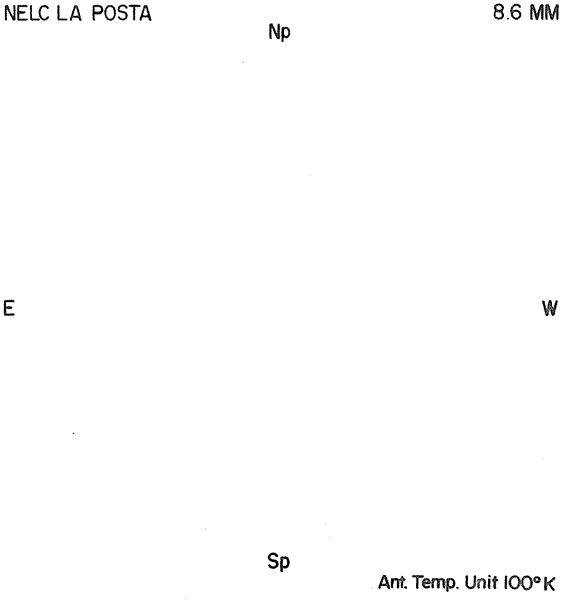

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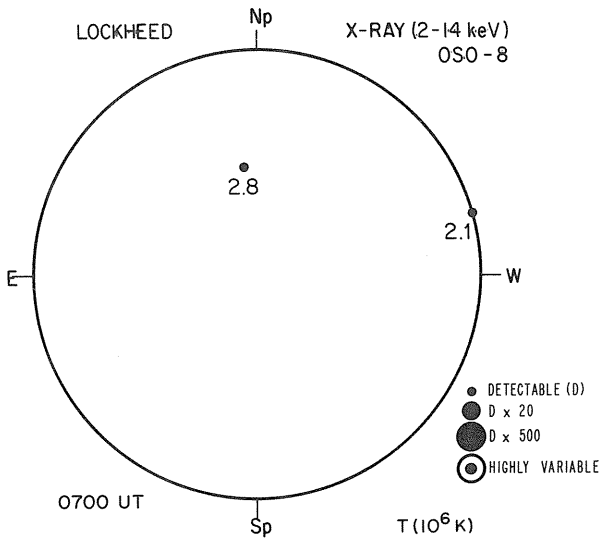
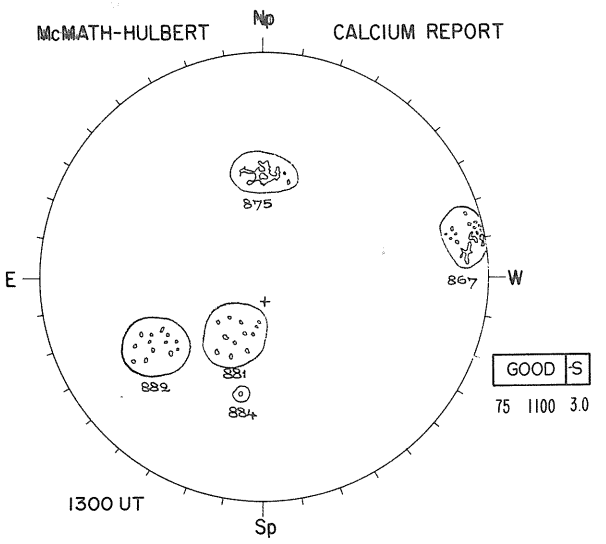
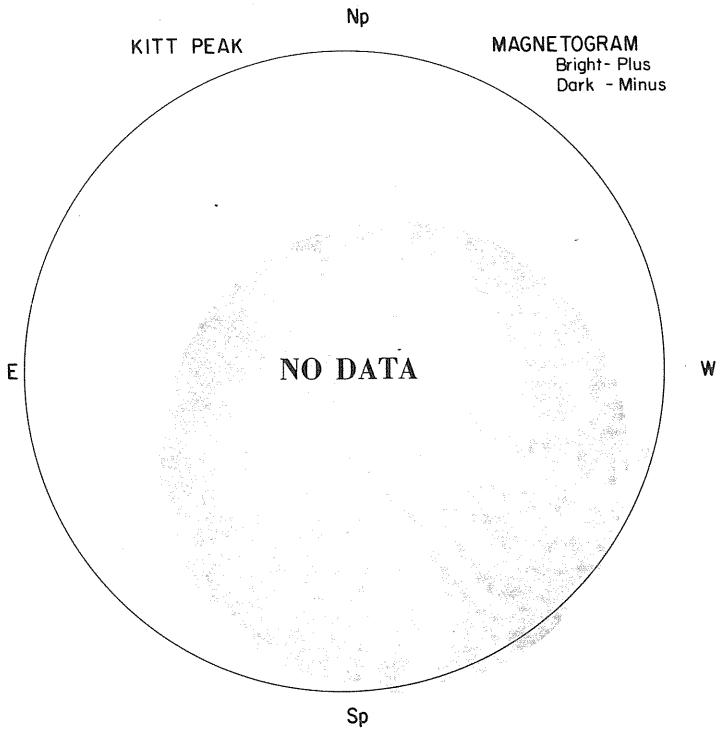
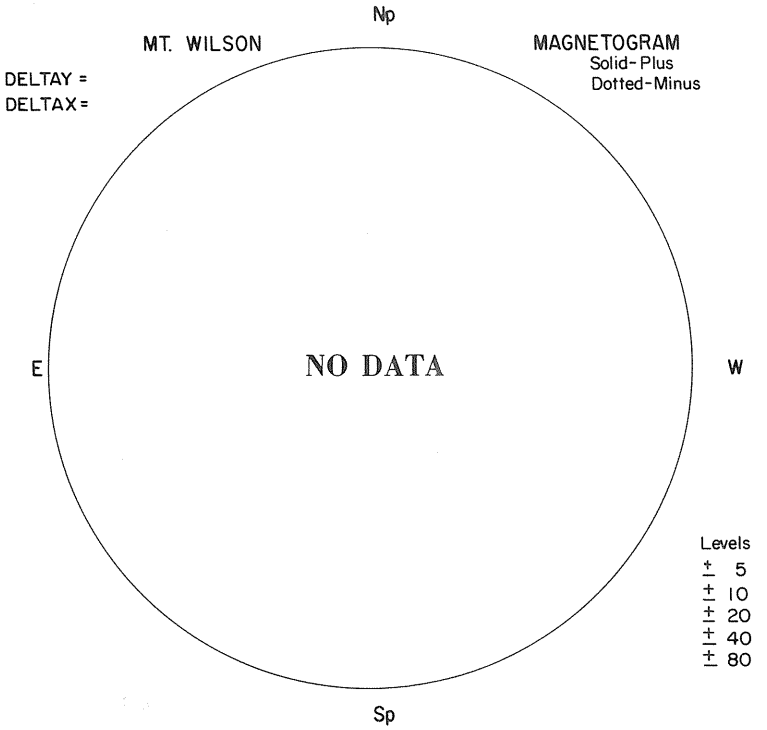
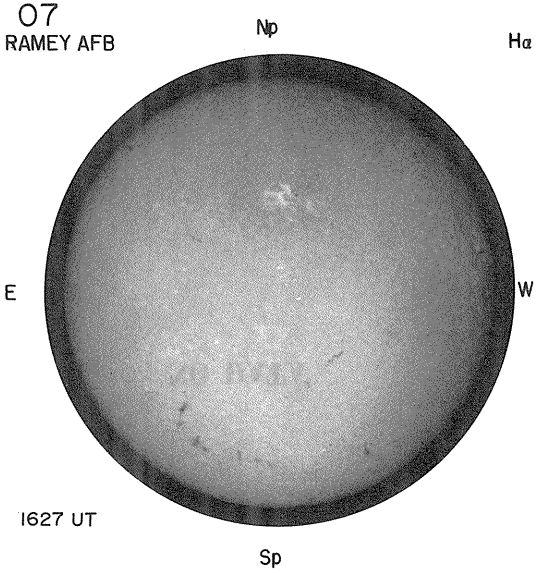




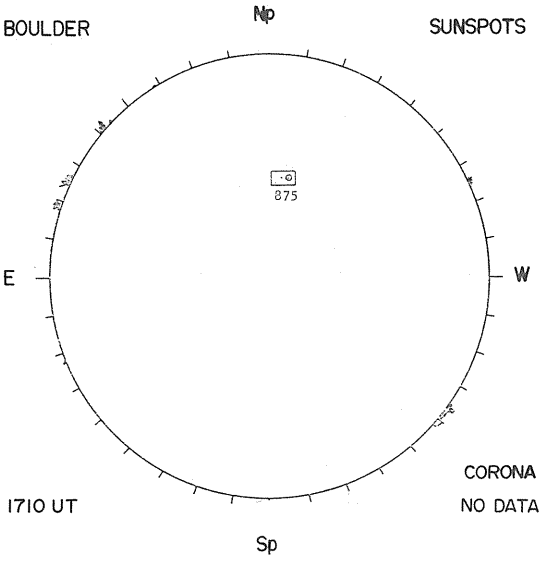




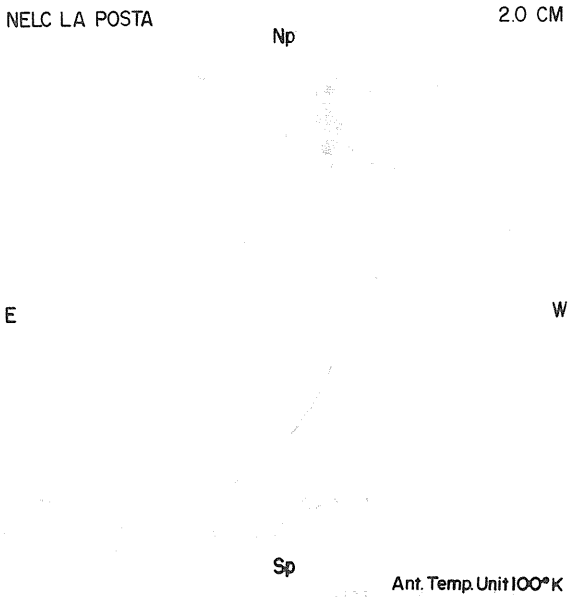
07
RAMEY AFB



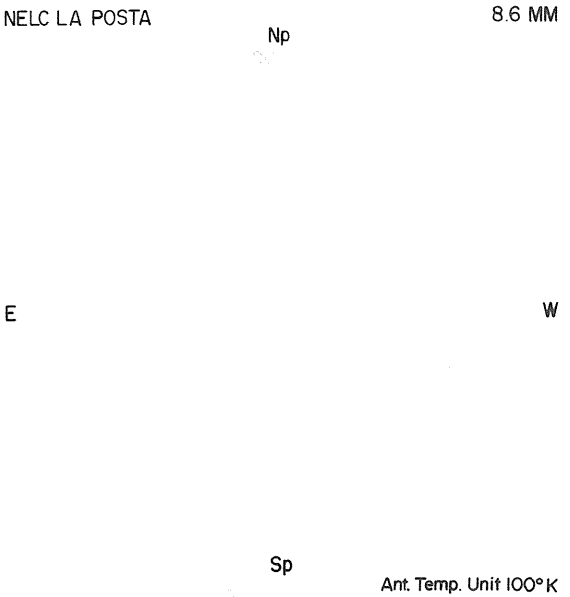
BOULDER



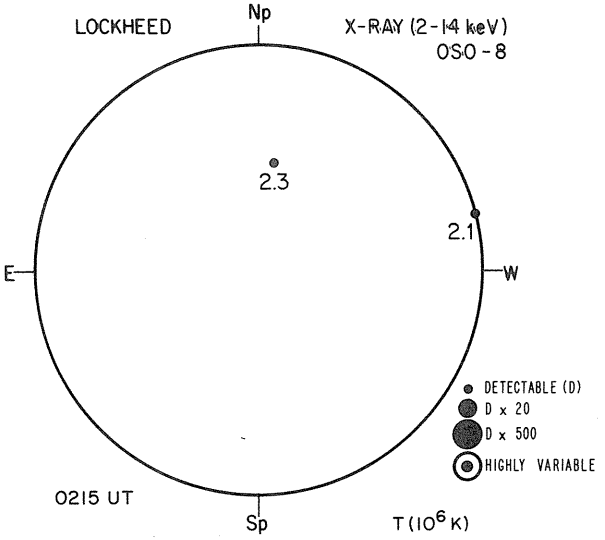
NELC LA POSTA

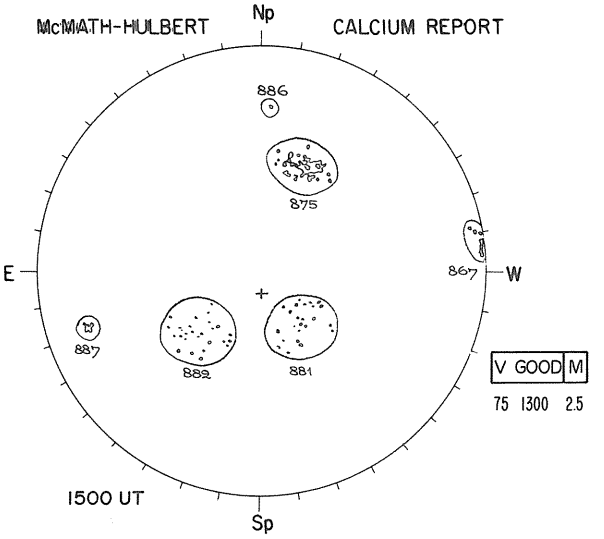


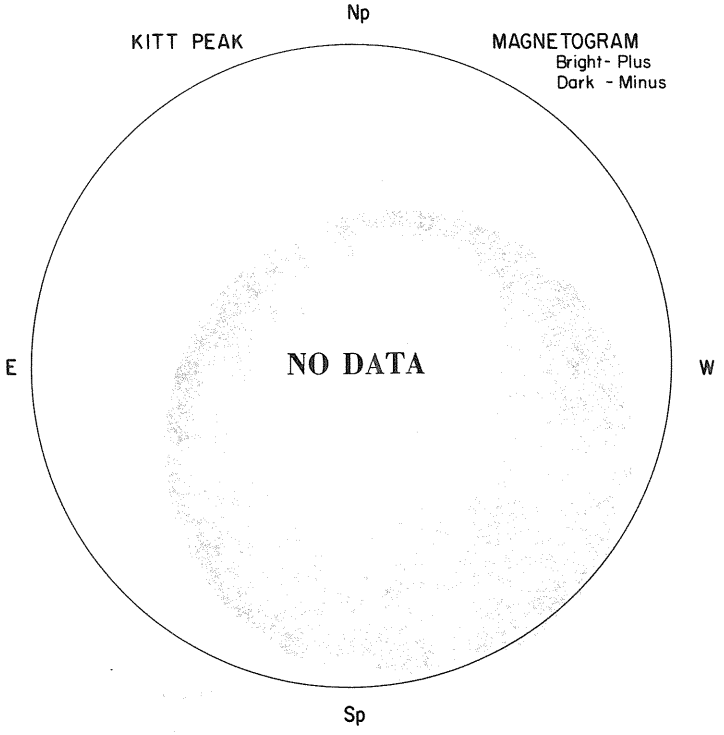
NELC LA POSTA

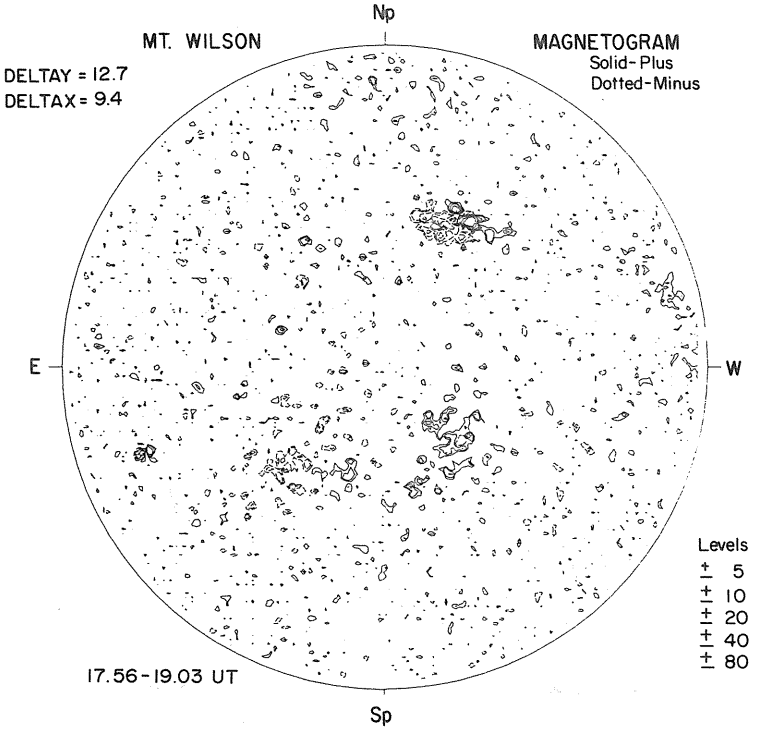


OCTOBER 8, 1975 (P =26.30, B_o =6.36, L_o =189.07)

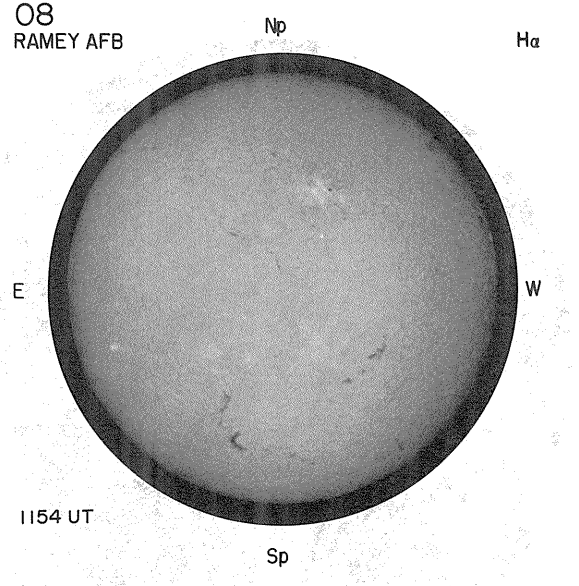




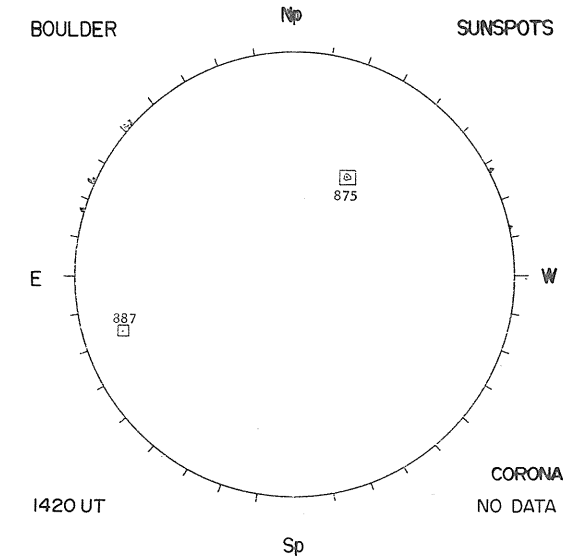




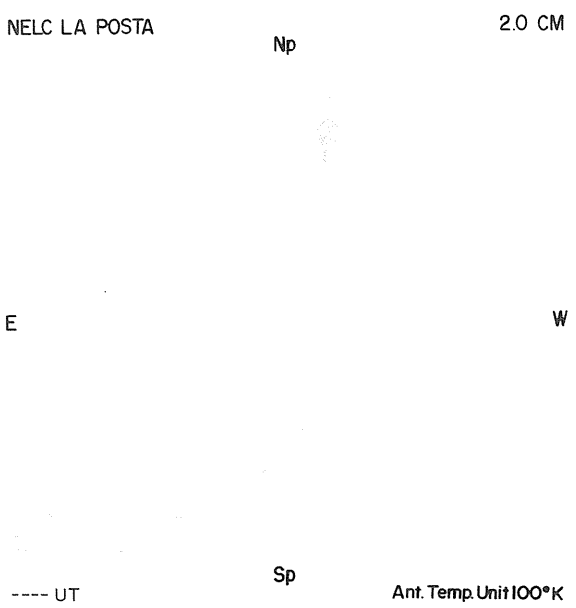
08
RAMEY AFB



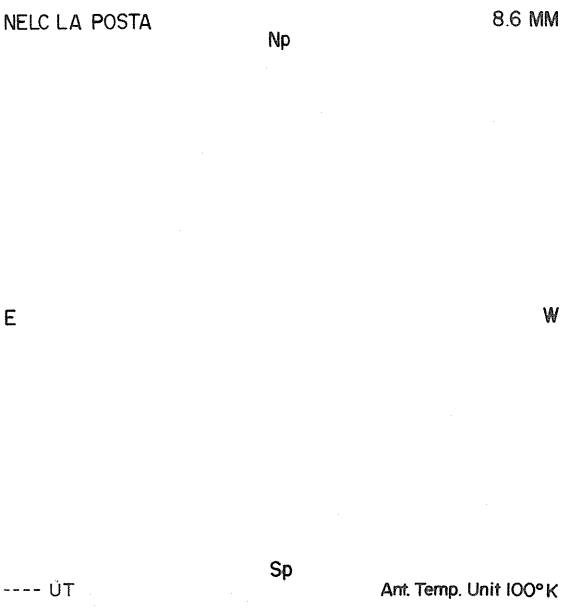
BOULDER



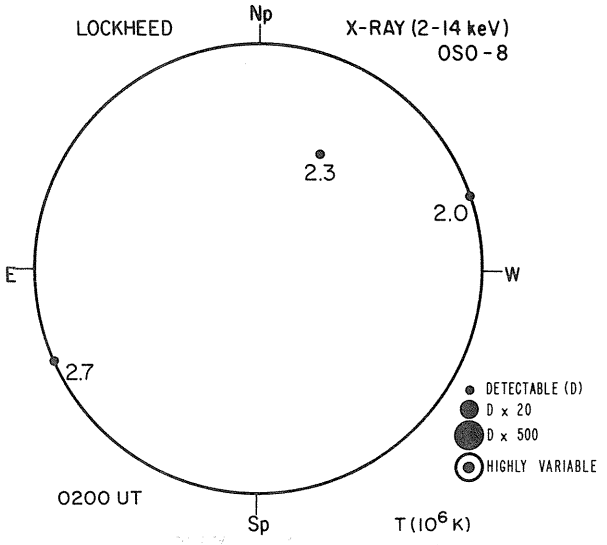
NELC LA POSTA

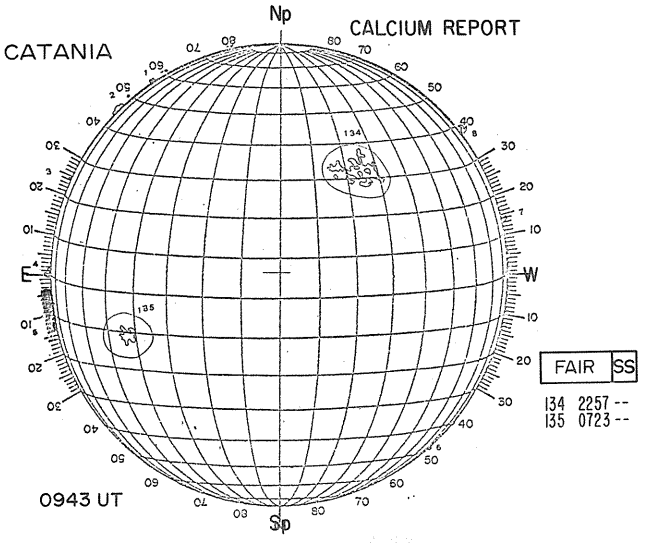


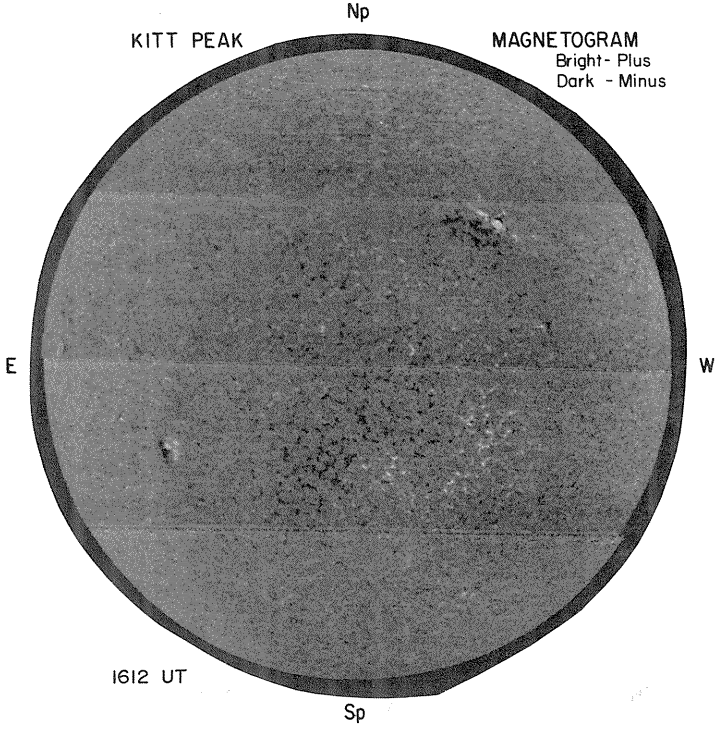
NELC LA POSTA

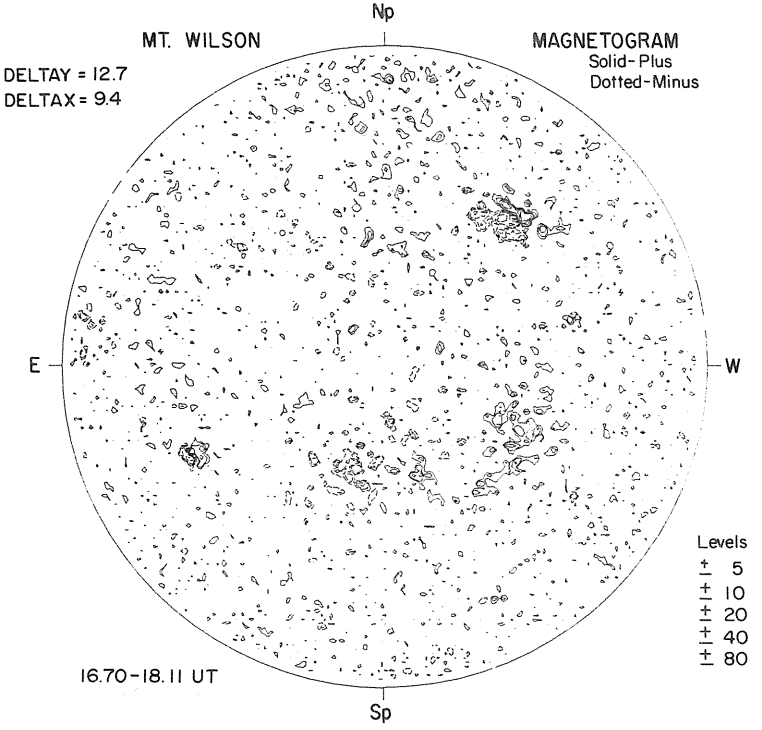


OCTOBER 9, 1975 (P =26.32, B_o =6.30, L_o =175.87)

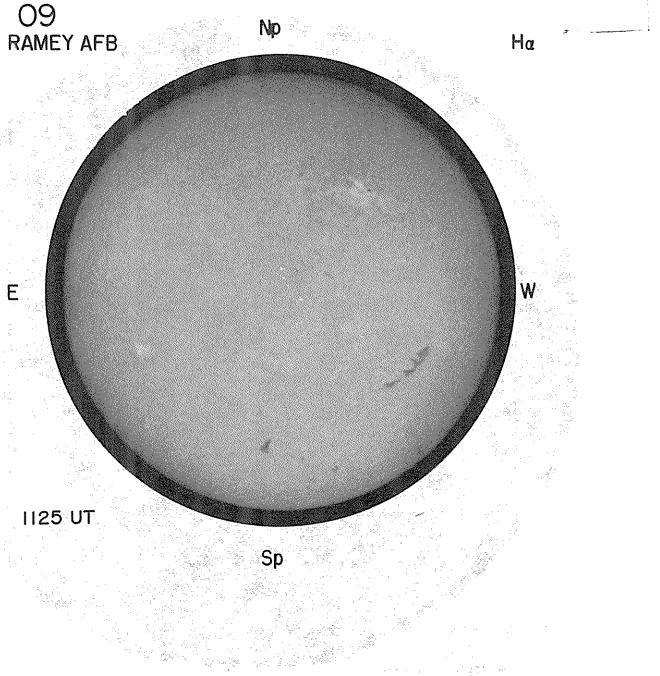


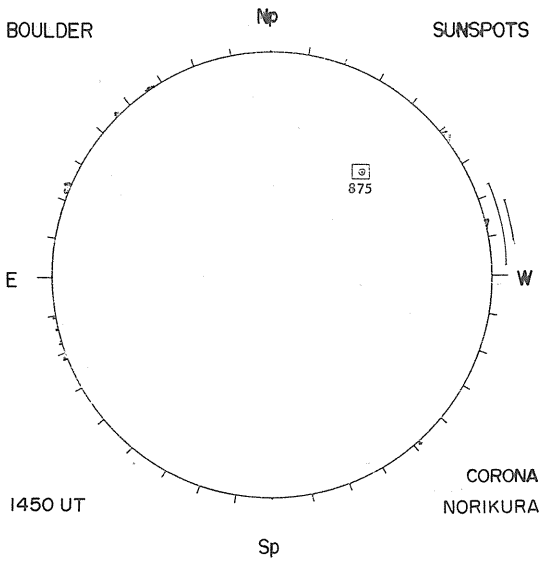


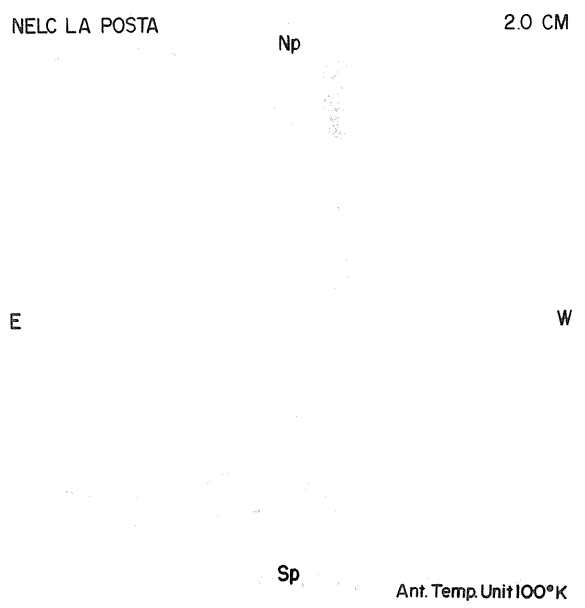


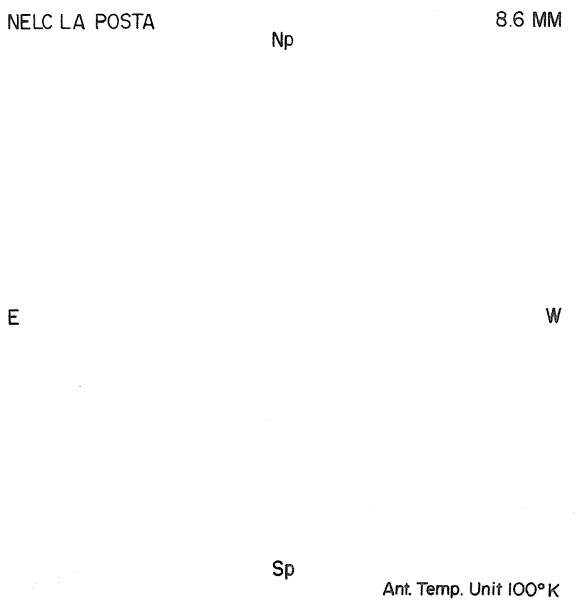


09
RAMEY AFB

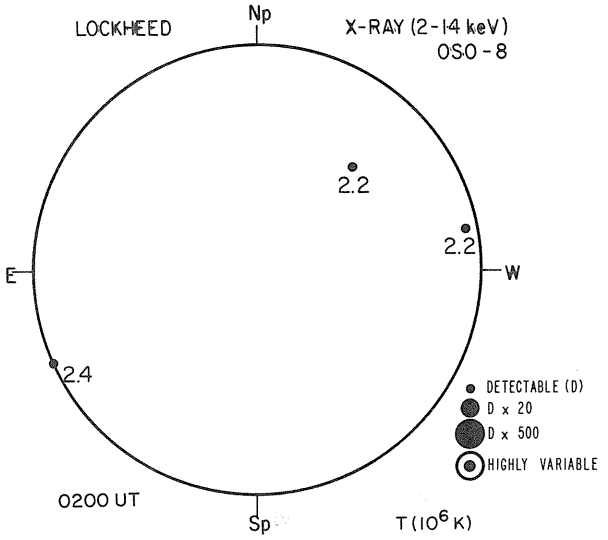

Np
Hα
E
W
1125 UT
Sp

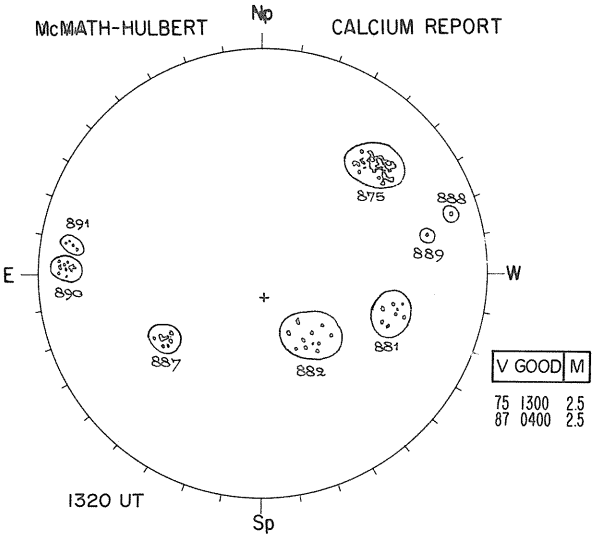

BOULDER
Np
SUNSPOTS
875
E
W
CORONA
NORIKURA
1450 UT
Sp

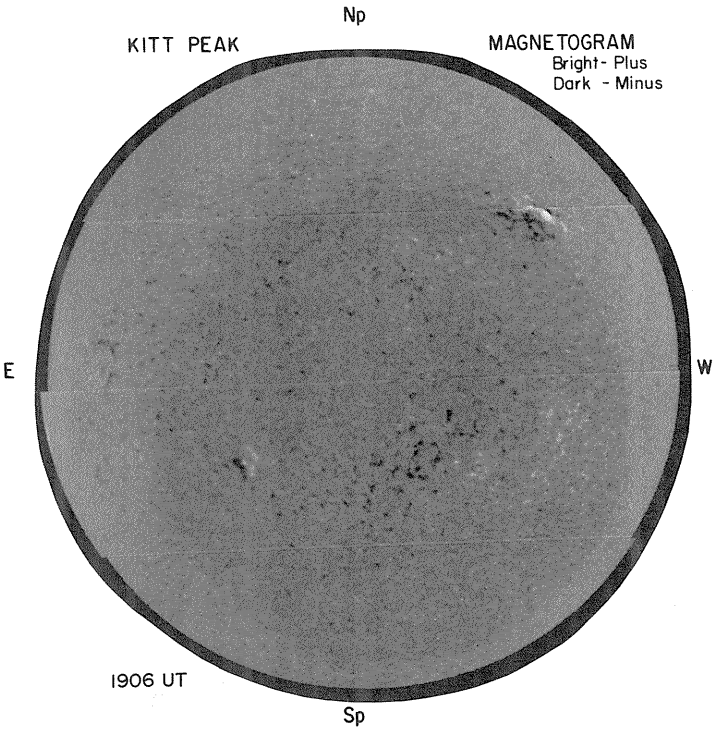

NELC LA POSTA
Np
2.0 CM
E
W
Sp
Ant. Temp. Unit 100°K

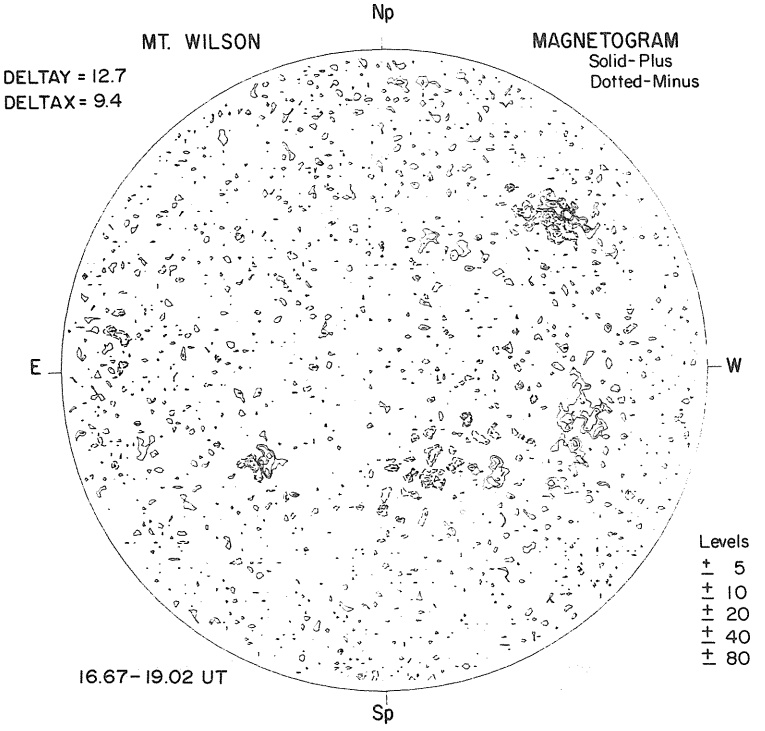

NELC LA POSTA
Np
8.6 MM
E
W
Sp
Ant. Temp. Unit 100°K

OCTOBER 10, 1975 (P =26.33, B_0 =6.23, L_0 =162.68)

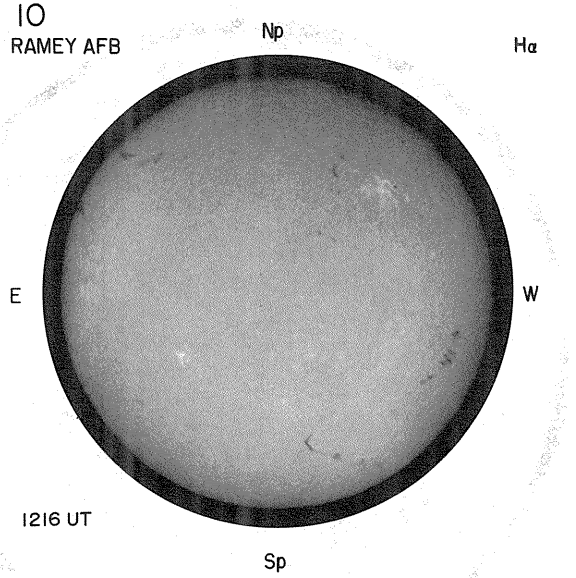




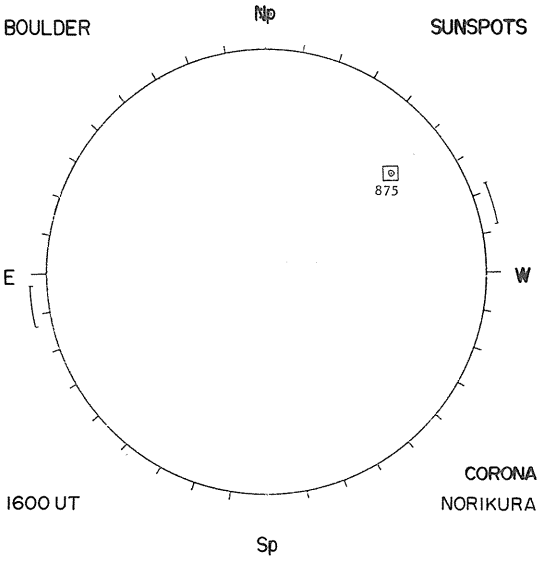




10
RAMEY AFB

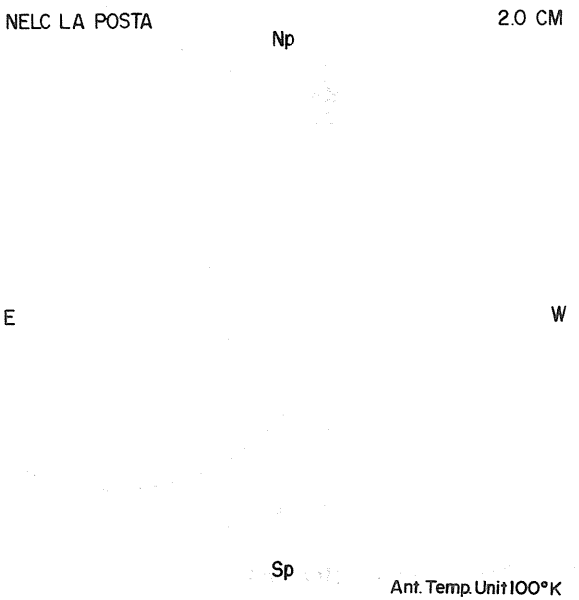


1216 UT

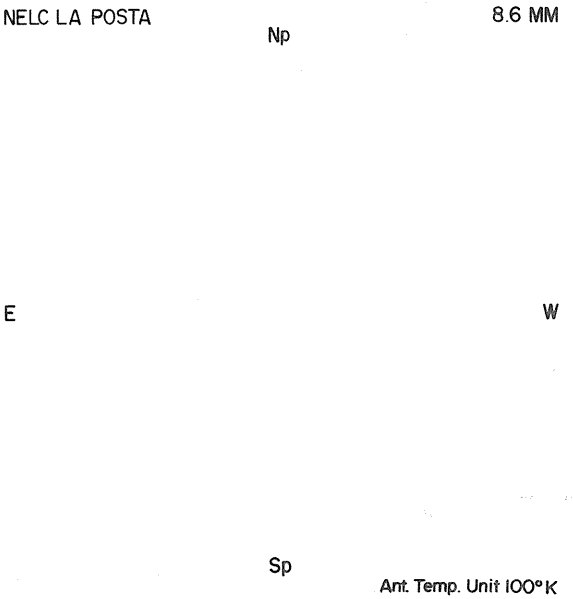


1600 UT

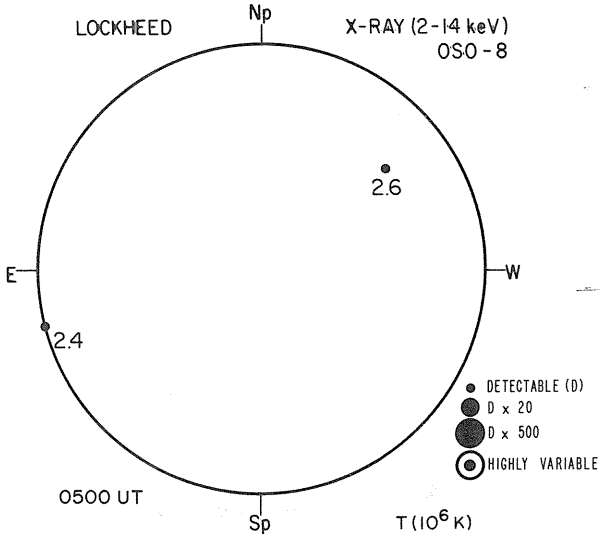
NELC LA POSTA

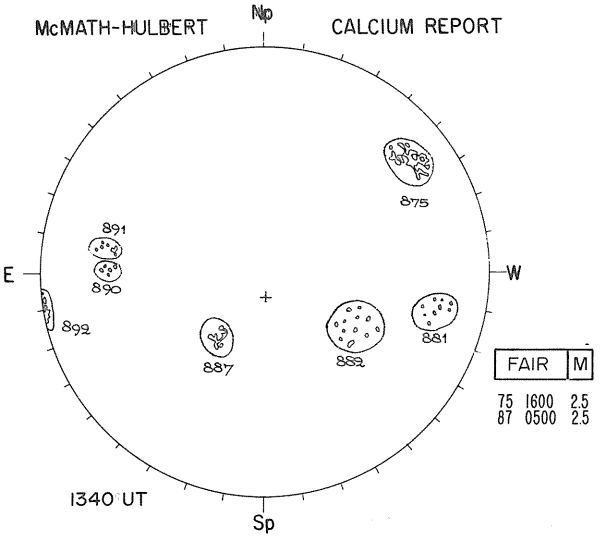


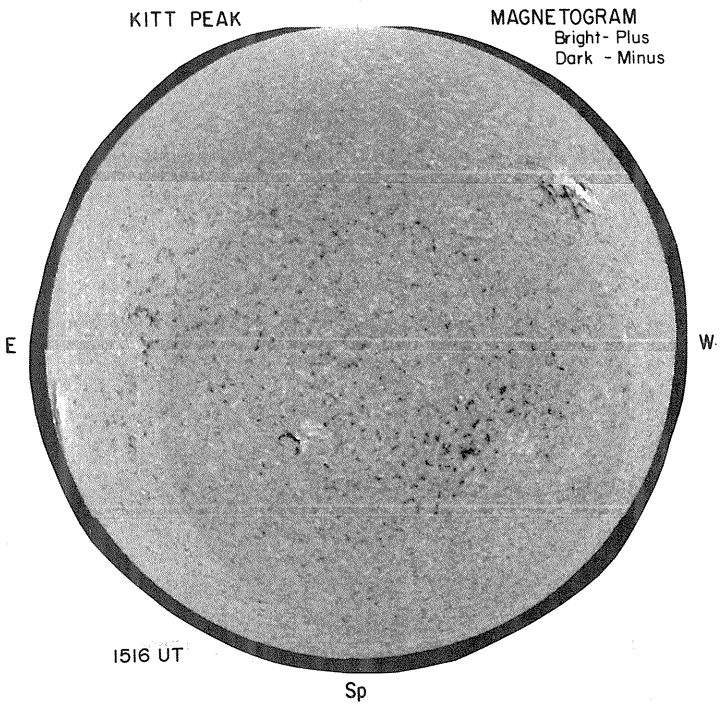
NELC LA POSTA

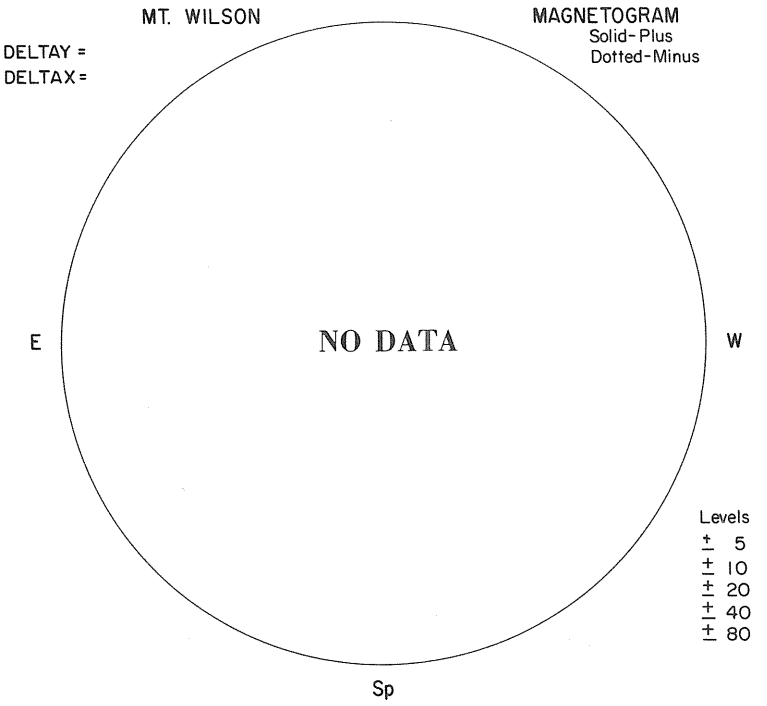


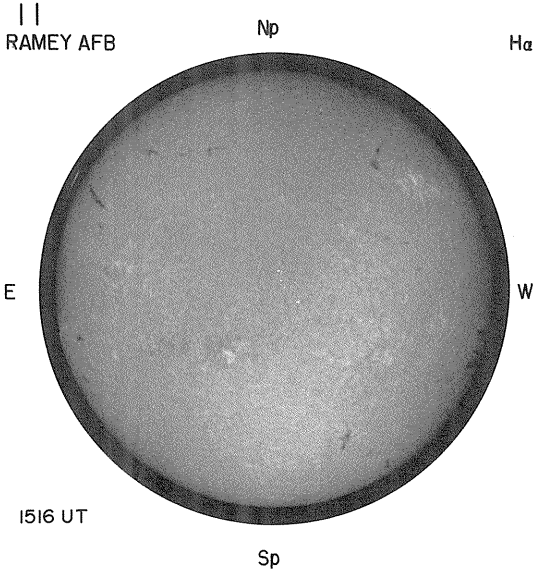
OCTOBER 11, 1975 (P =26.33, B_o =6.17, L_o =149.49)

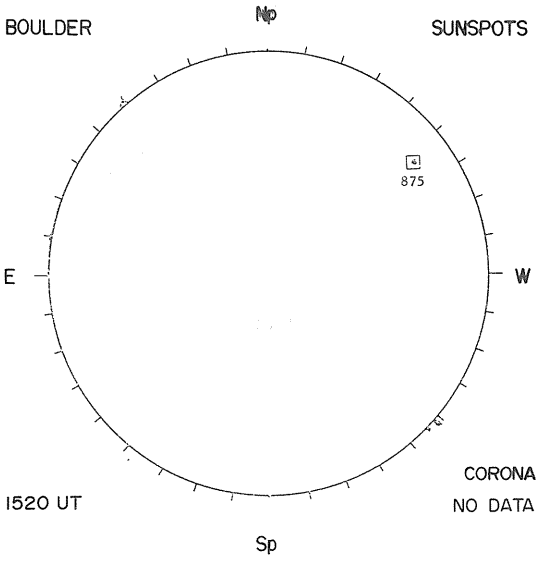


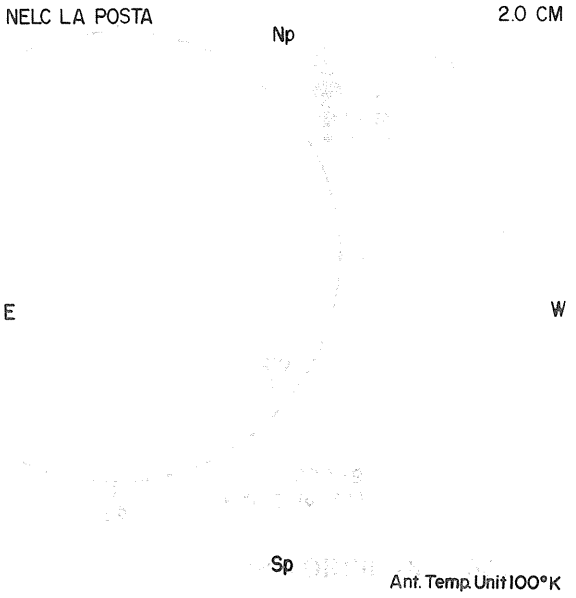


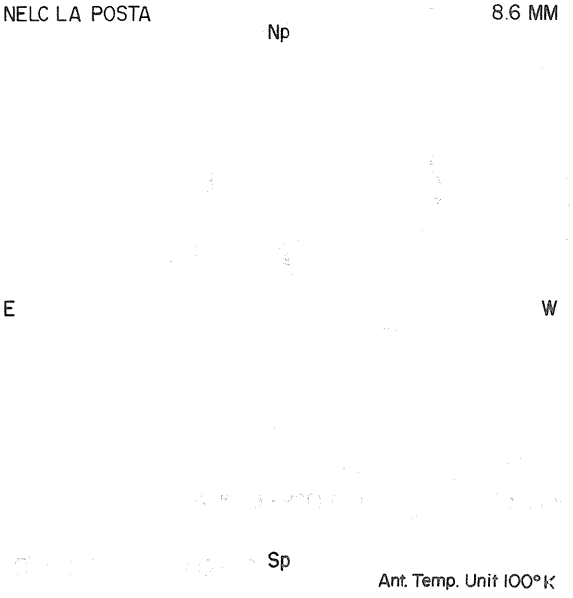




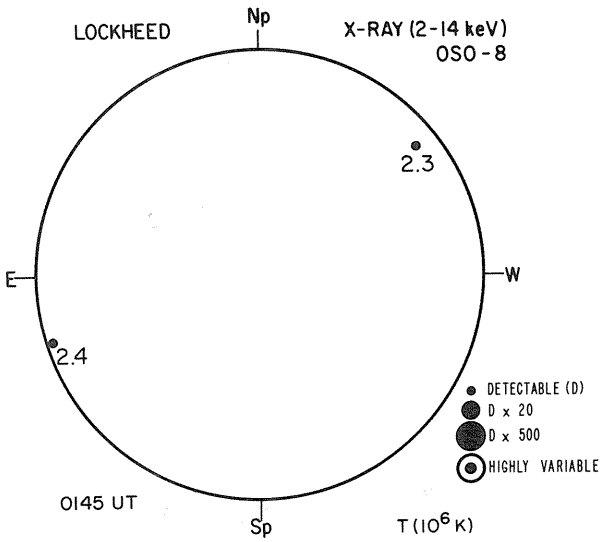

RAMEY AFB
Np
Hα
E
W
1516 UT
Sp

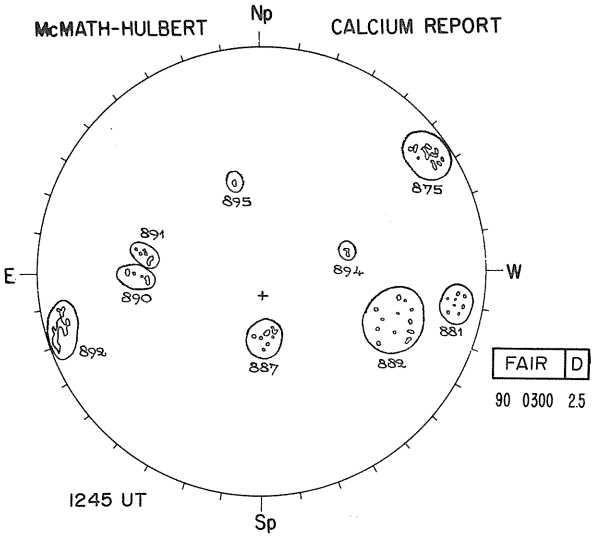

BOULDER
Np
SUNSPOTS
875
E
W
CORONA
NO DATA
1520 UT
Sp

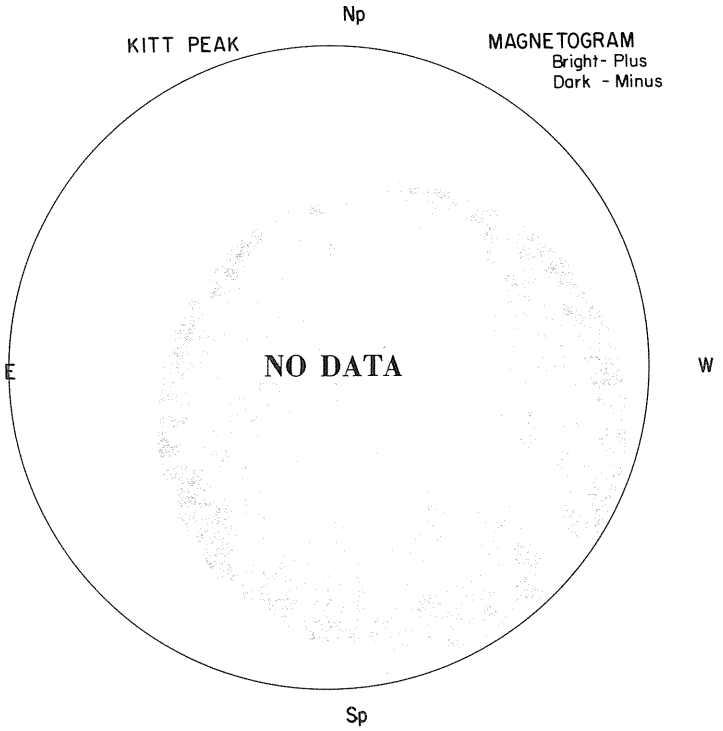

NELC LA POSTA
Np
2.0 CM
E
W
Sp
Ant. Temp. Unit 100°K

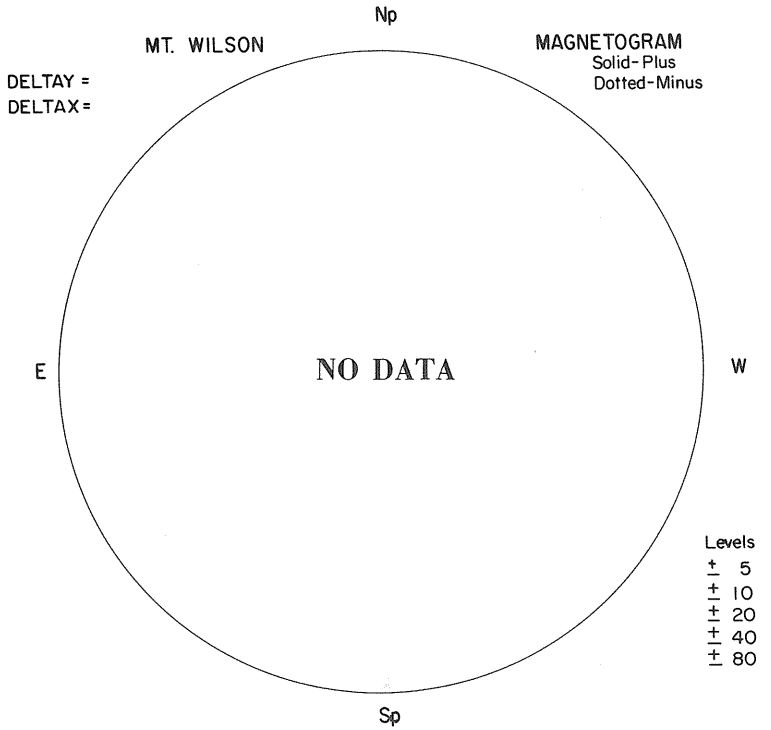

NELC LA POSTA
Np
8.6 MM
E
W
Sp
Ant. Temp. Unit 100°K

OCTOBER 12, 1975 (P =26.33, B_o =6.10, L_o =136.30)

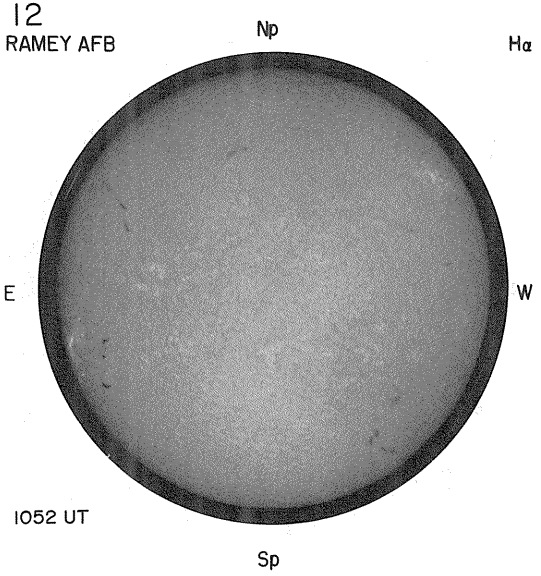




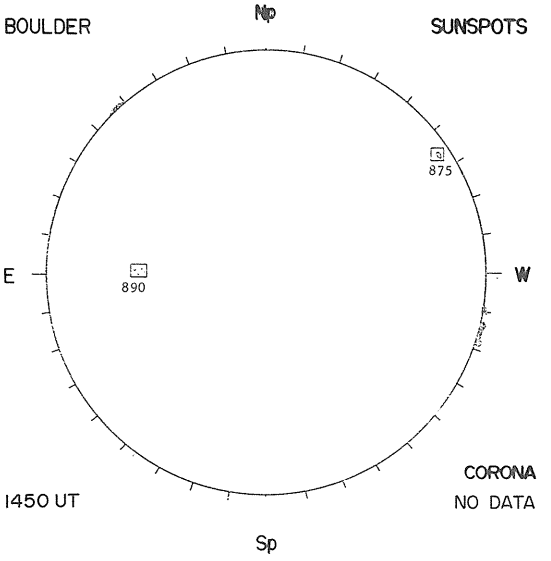




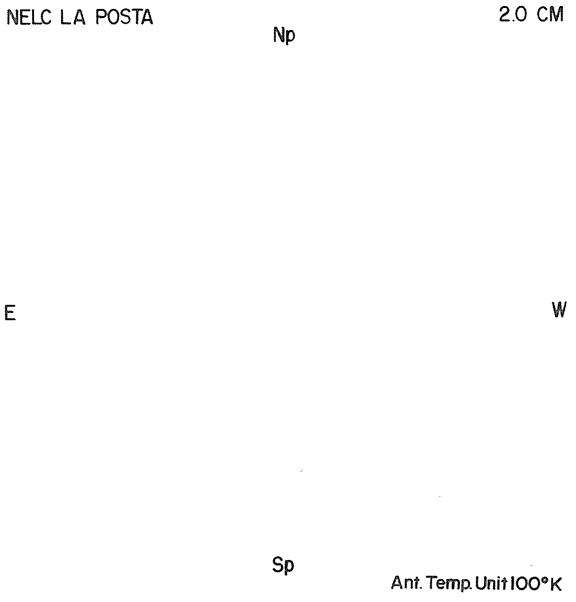
12
RAMEY AFB



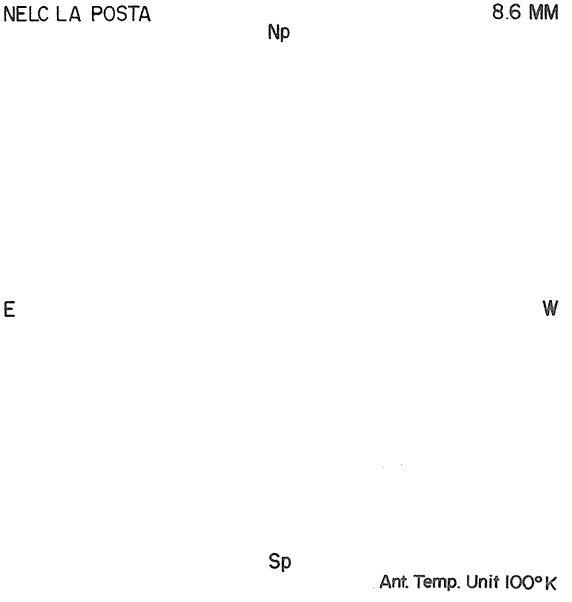
BOULDER



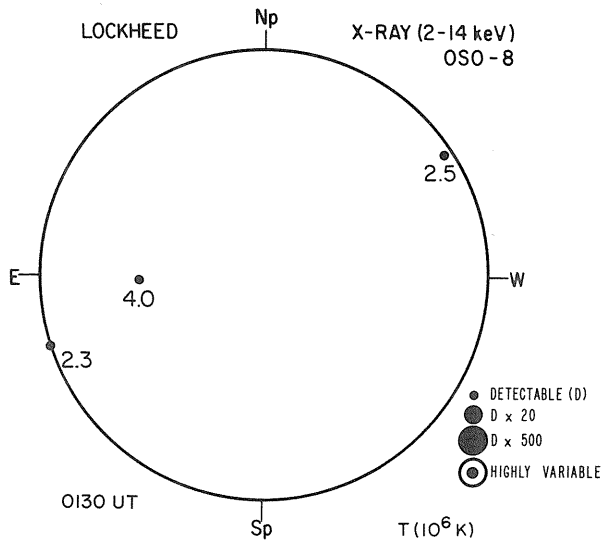
NELC LA POSTA

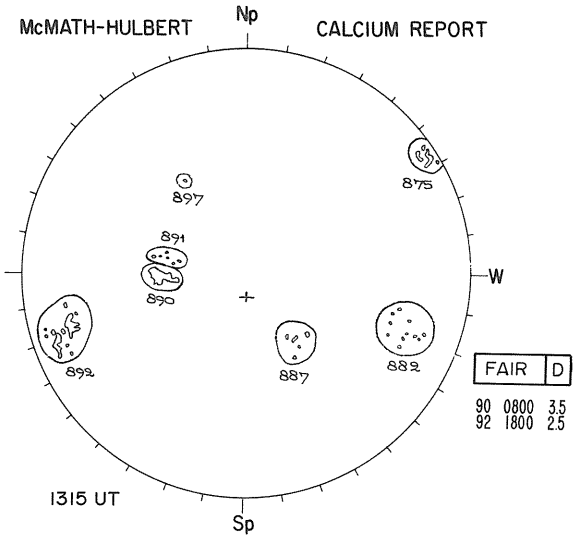


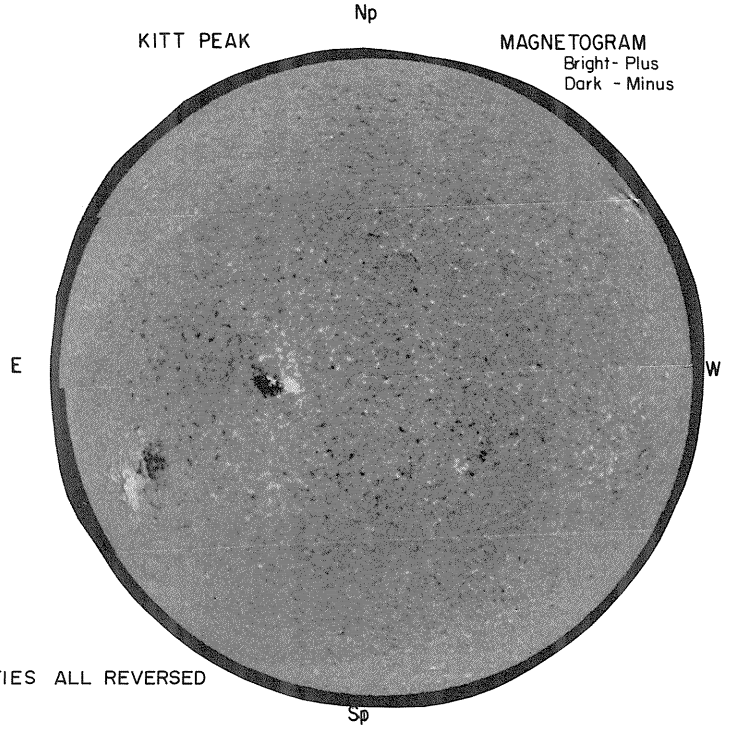
NELC LA POSTA

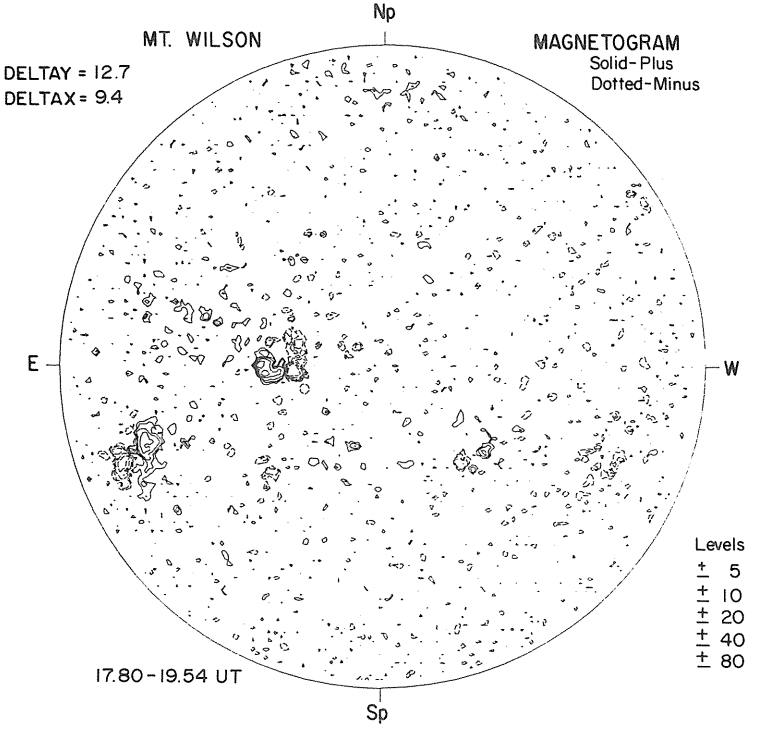


OCTOBER 13, 1975 (P =26.32, B_o =6.03, L_o =123.11)



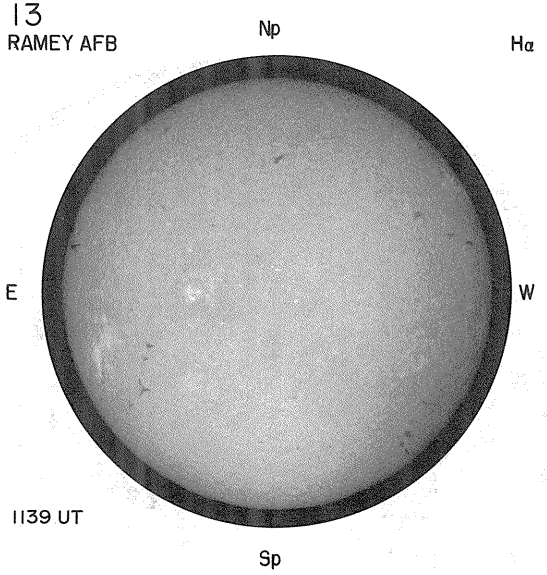




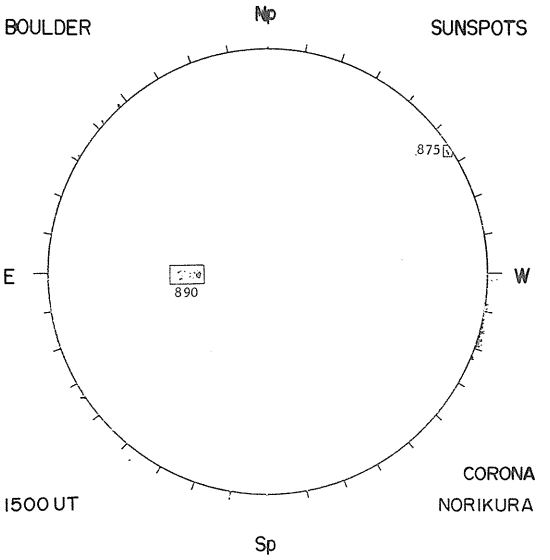


13

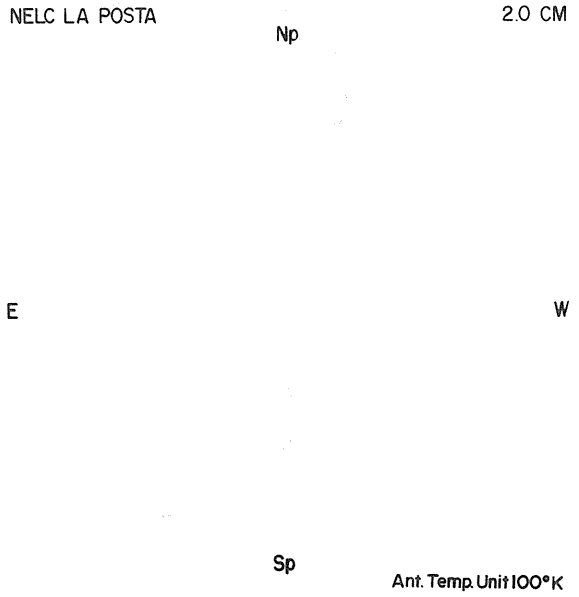
RAMEY AFB



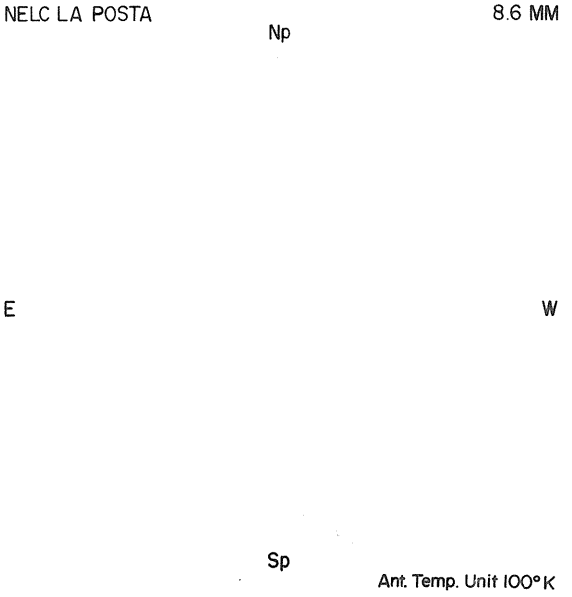
BOULDER



NELC LA POSTA

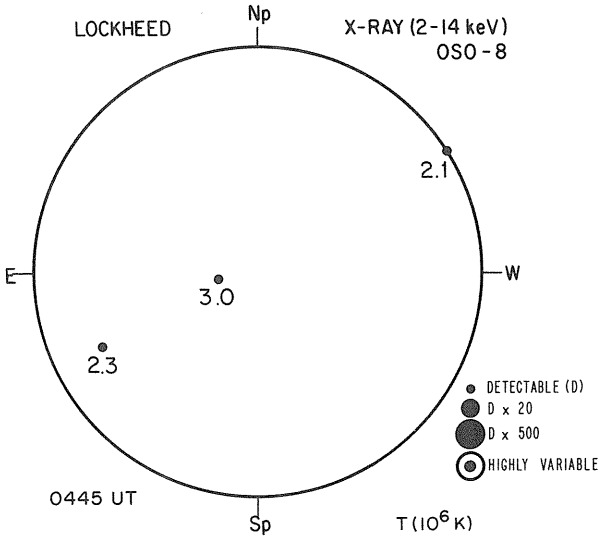


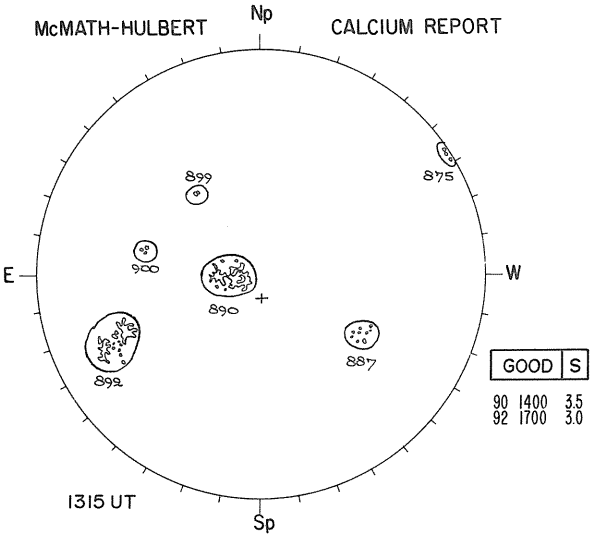
NELC LA POSTA

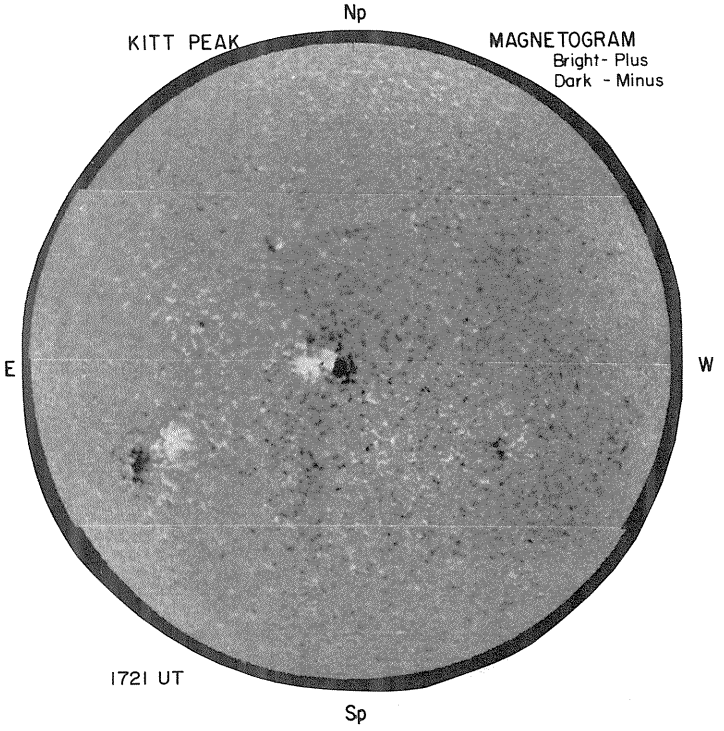


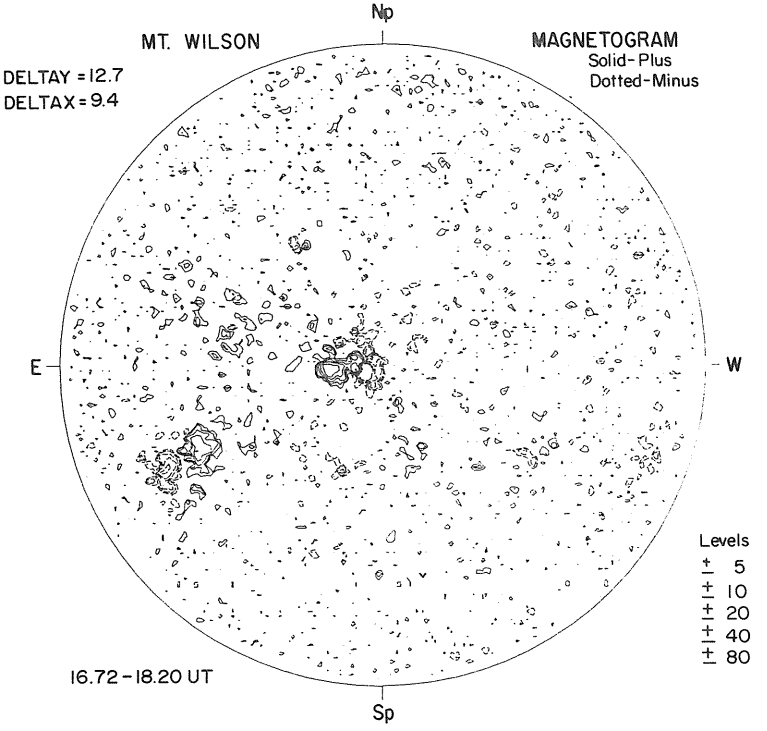
53
Oct 75

OCTOBER 14, 1975 (P =26.30, B_o =5.96, L_o =109.91)



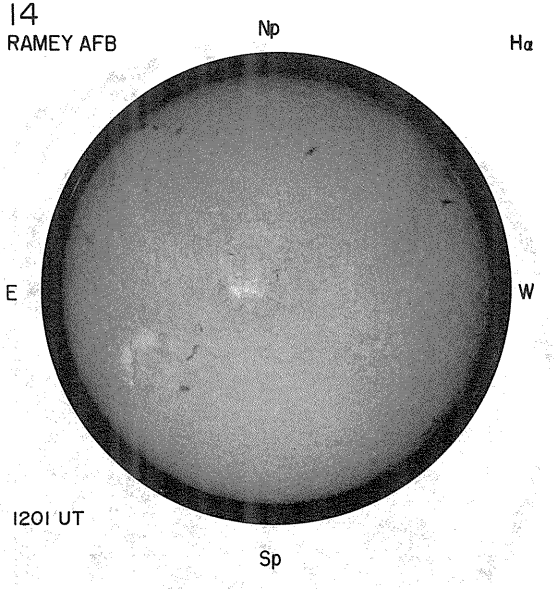




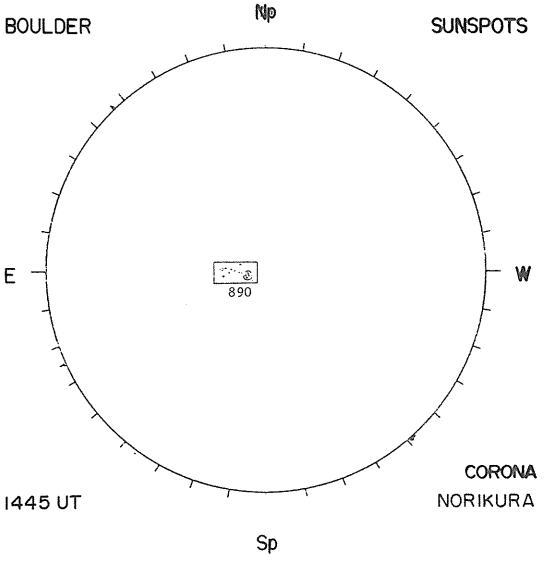


14

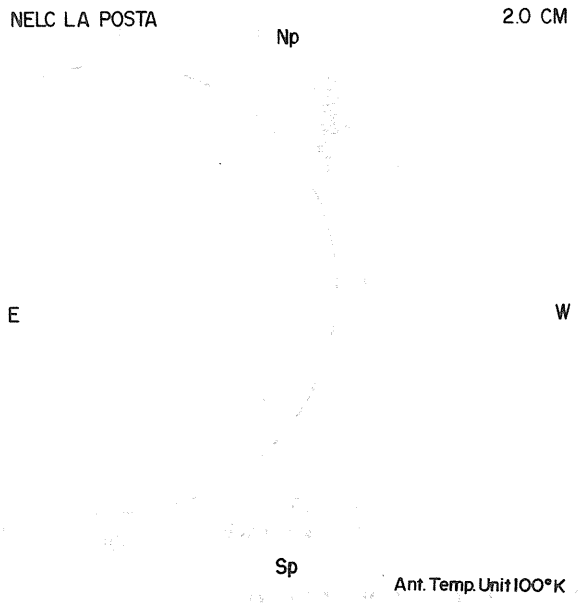
RAMEY AFB



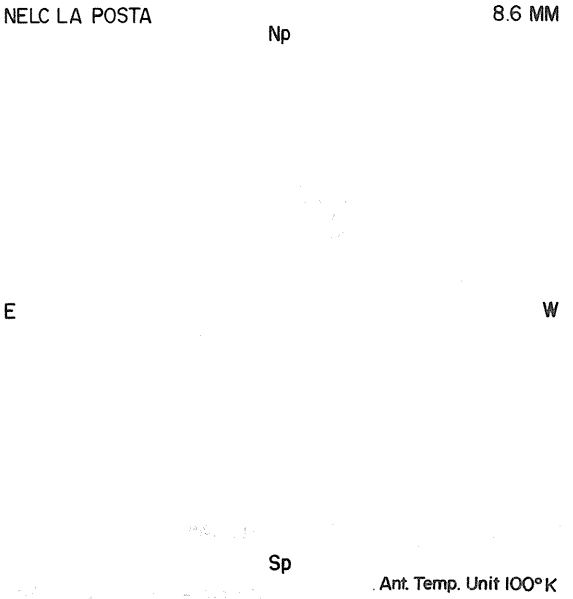
BOULDER



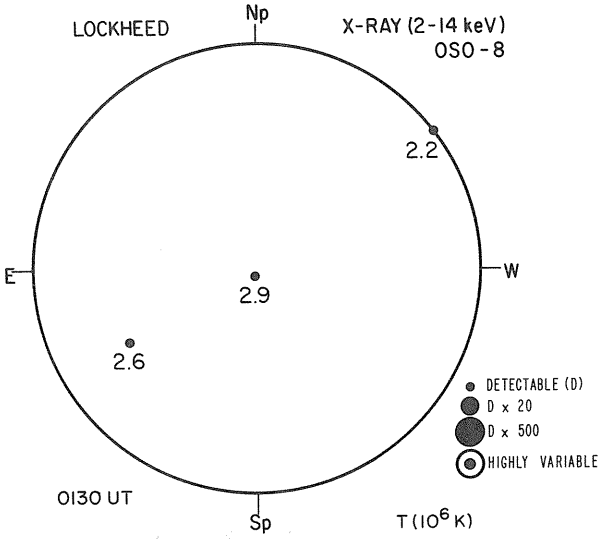
NELC LA POSTA

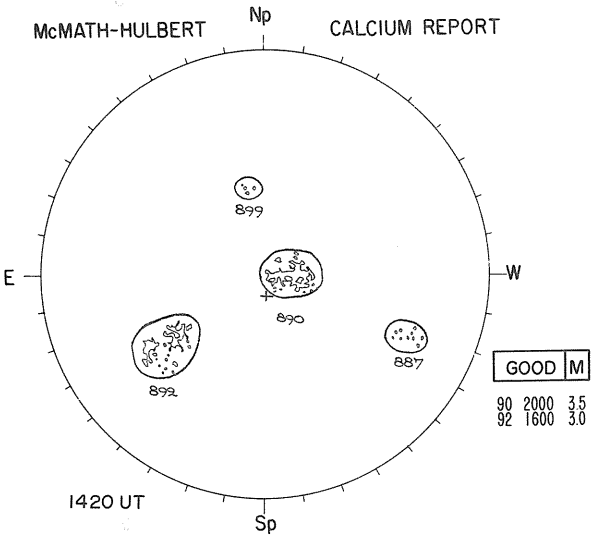


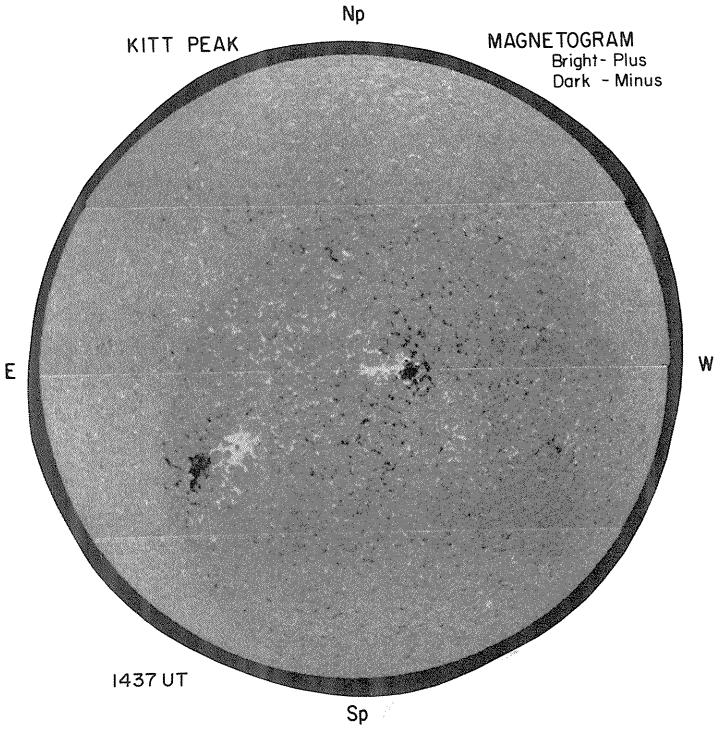
NELC LA POSTA

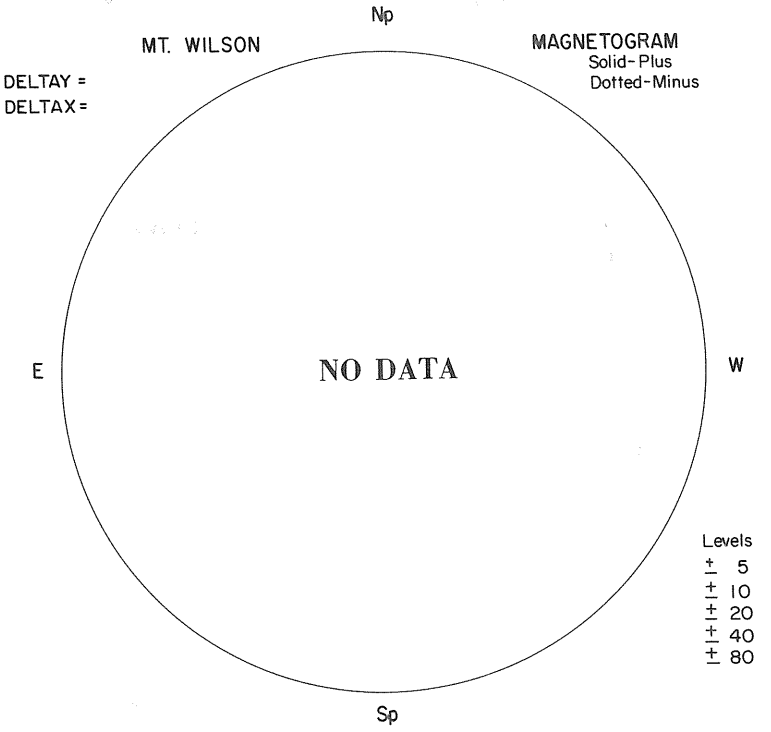


OCTOBER 15, 1975 (P = 26.27, B_0 = 5.89, L_0 = 96.72)

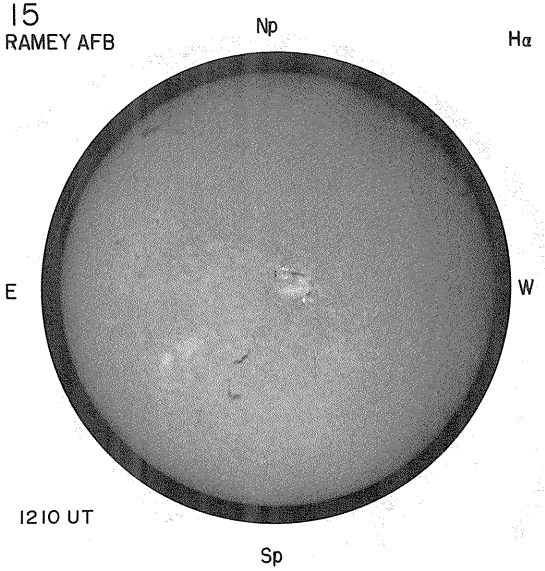


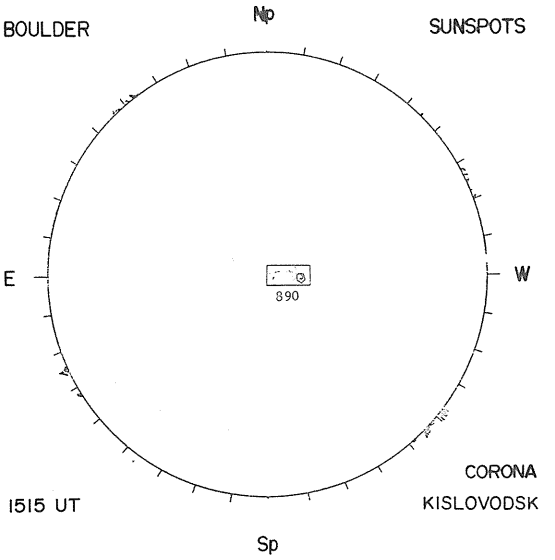




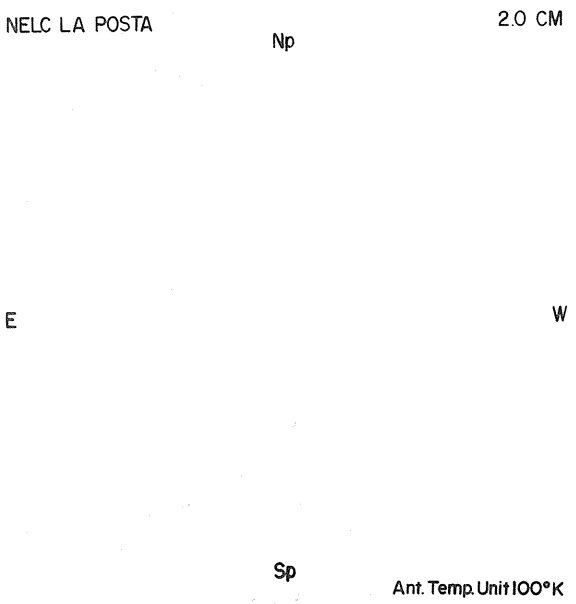


15
RAMEY AFB

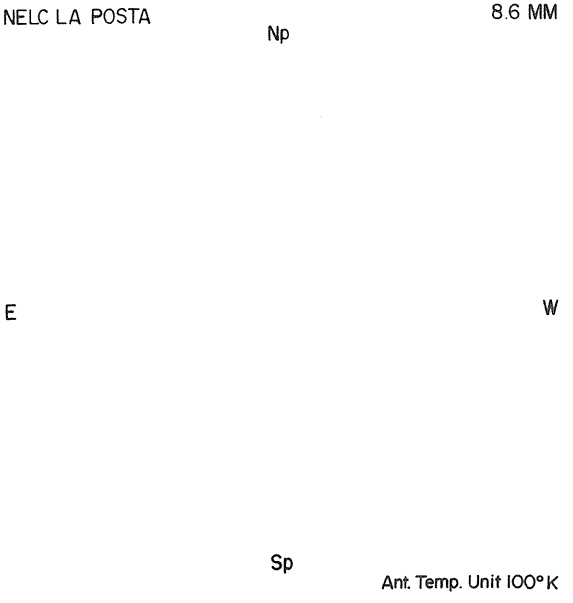




NELC LA POSTA

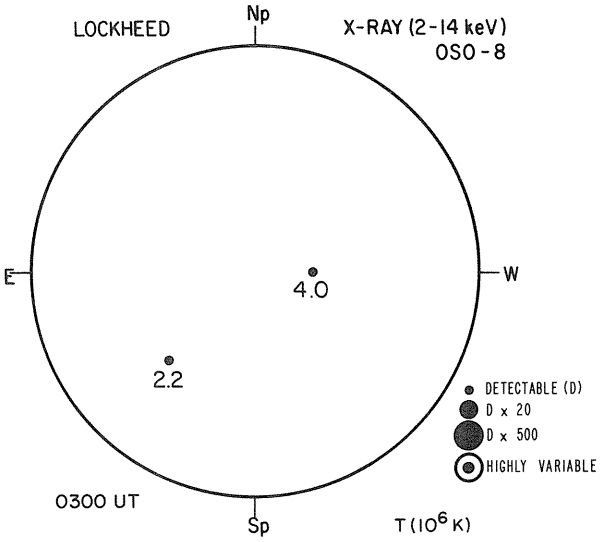


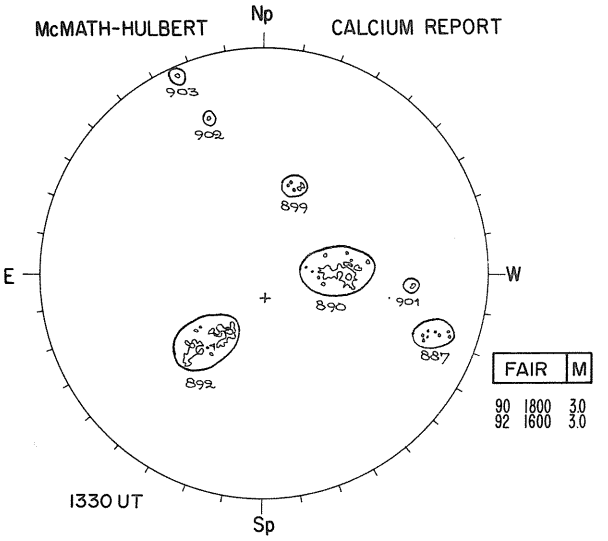
NELC LA POSTA

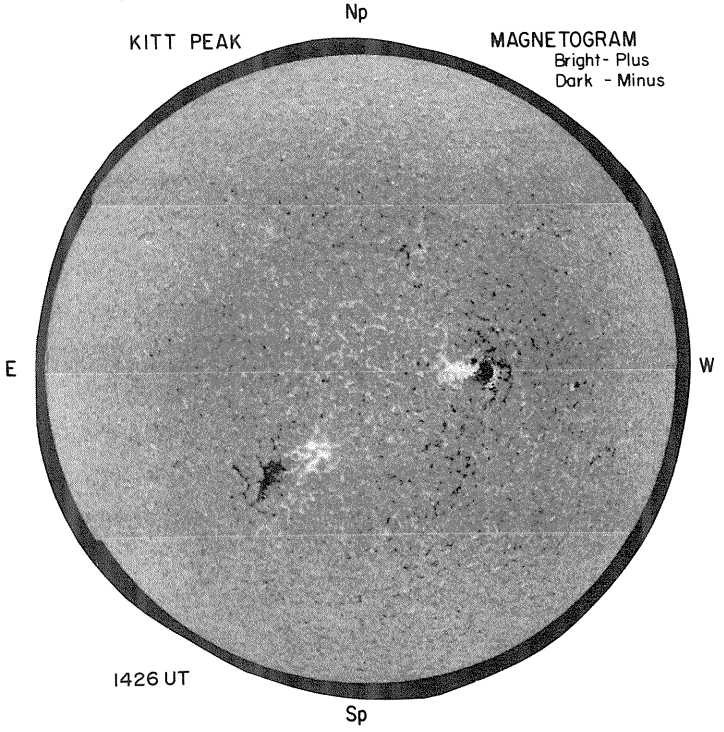


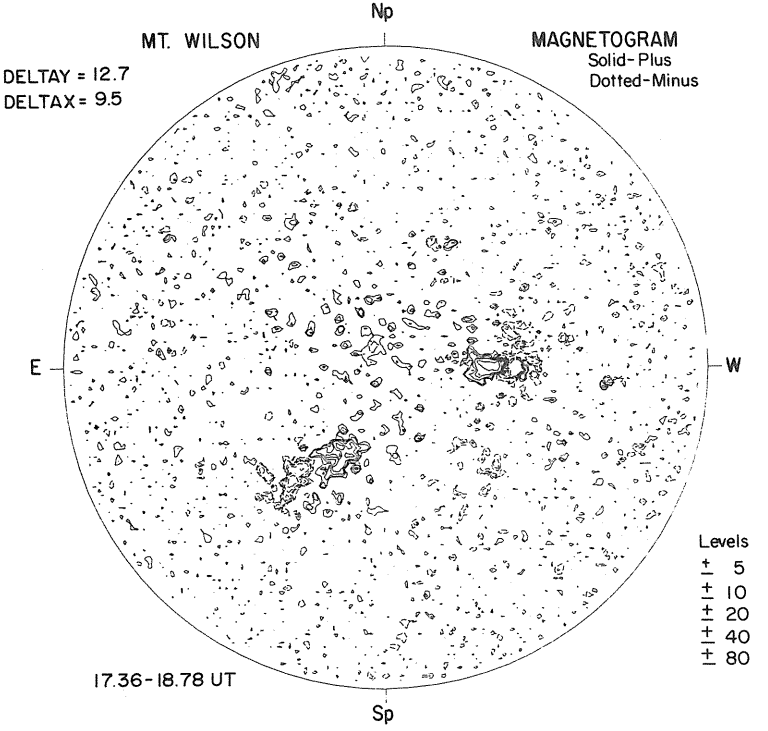
57
Oct 75

OCTOBER 16, 1975 (P = 26.24, B_o = 5.82, L_o = 83.53)



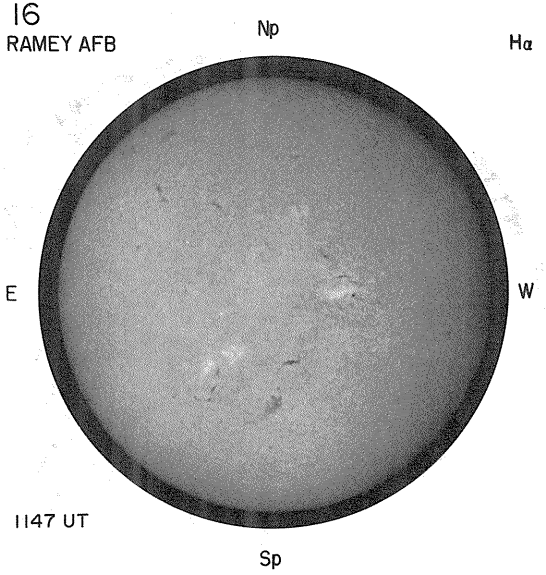




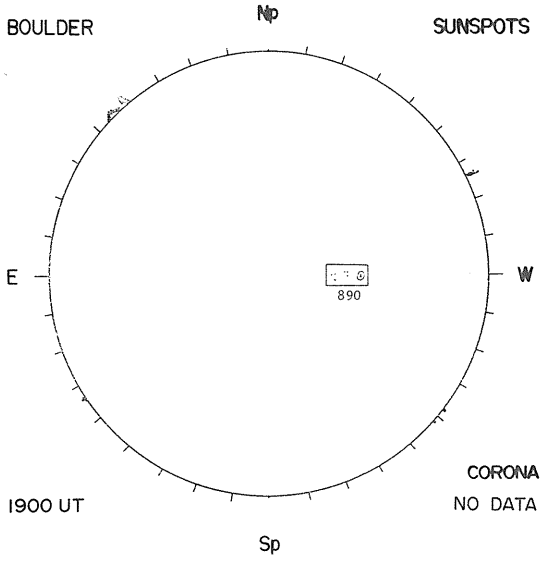


16

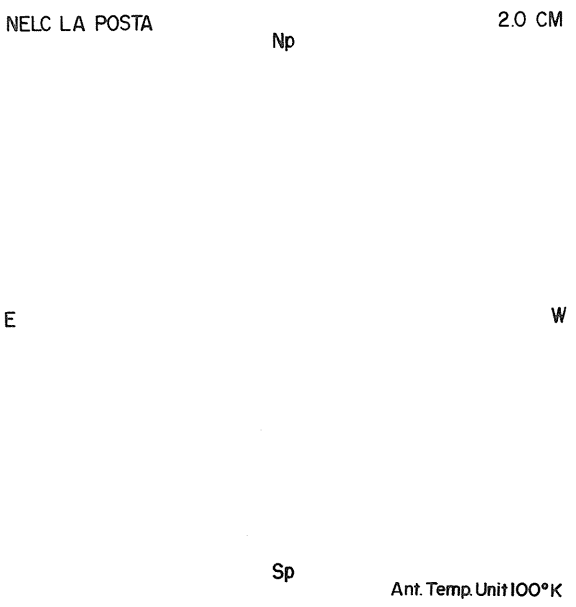
RAMEY AFB



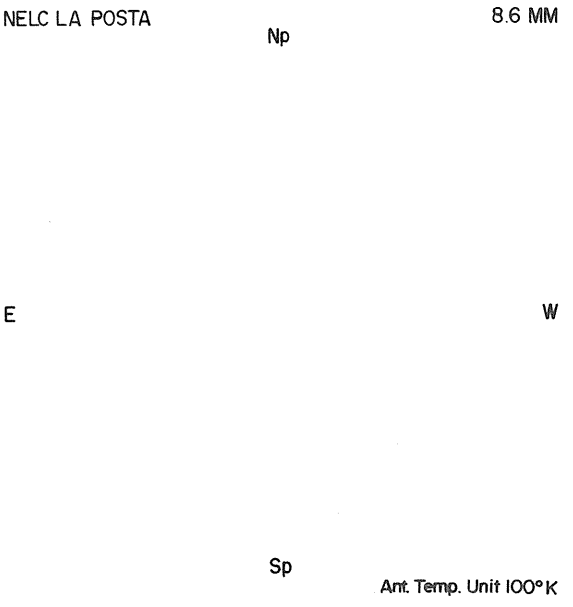
BOULDER



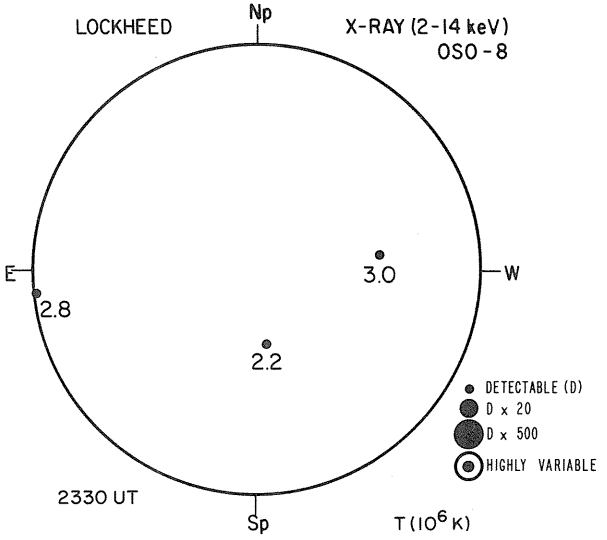
NELC LA POSTA

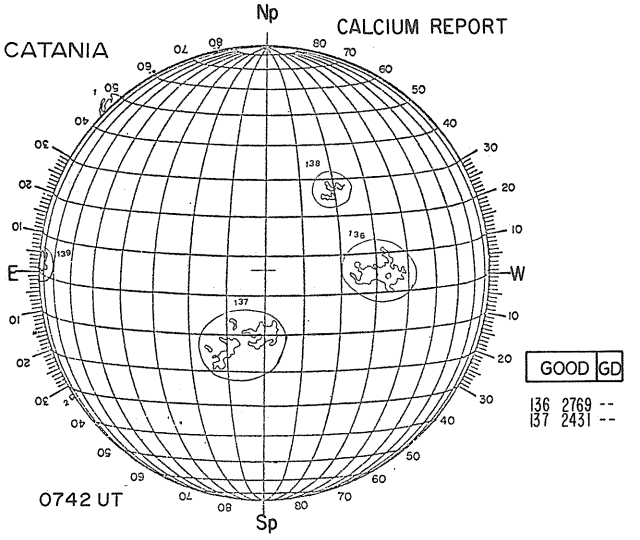


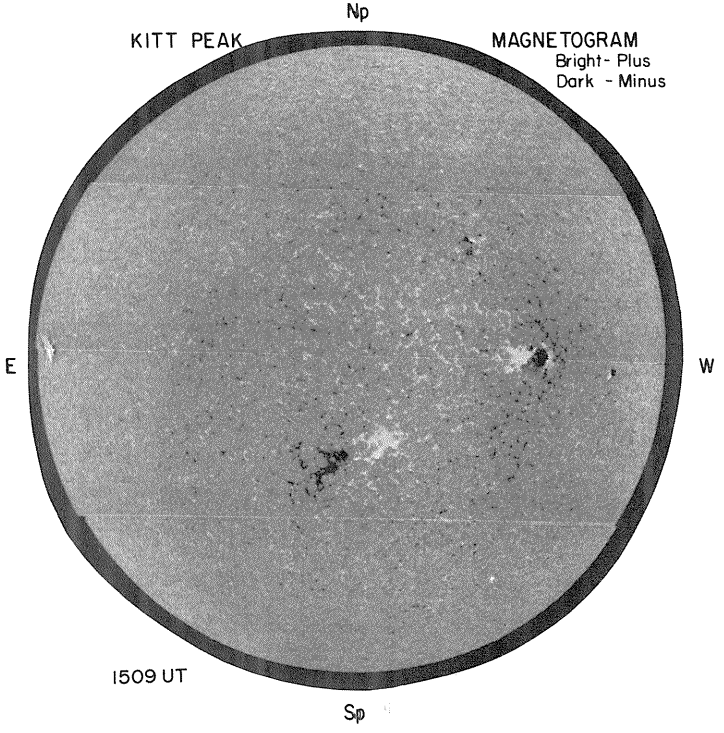
NELC LA POSTA

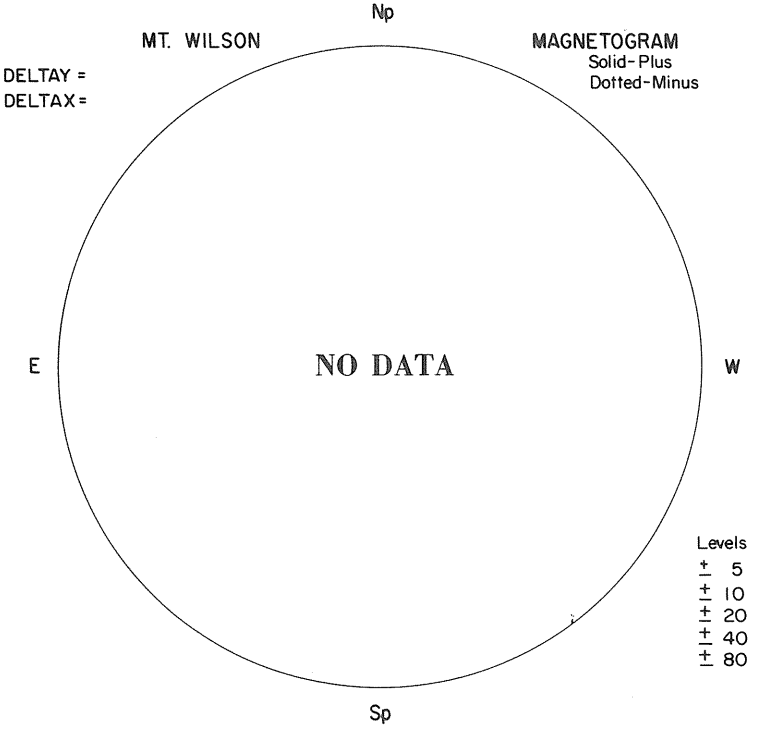


OCTOBER 17, 1975 (P = 26.19, B_o = 5.74, L_o = 70.34)



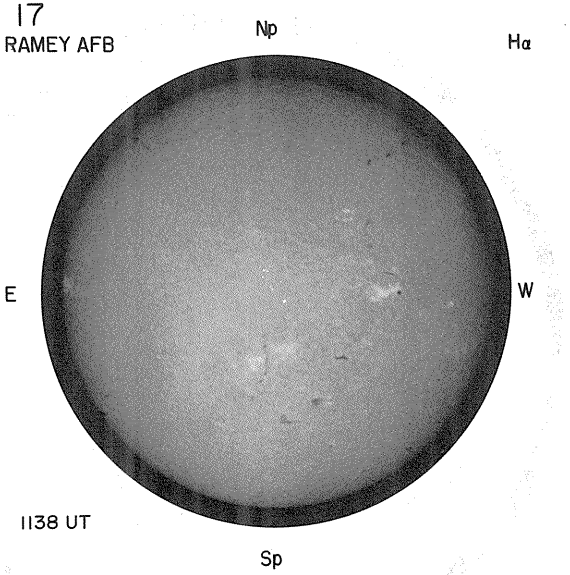




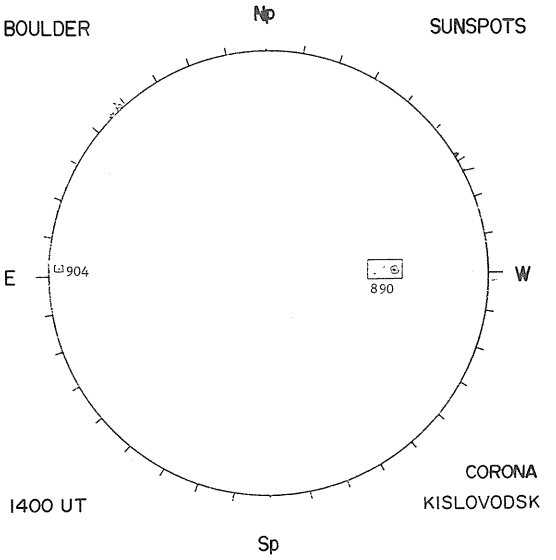


17

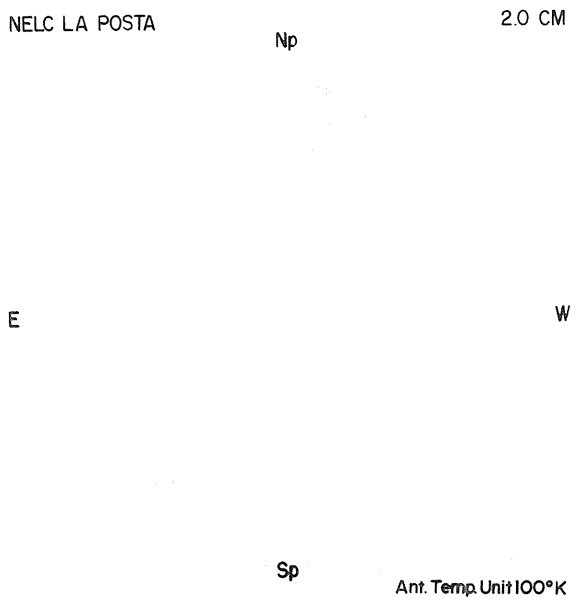
RAMEY AFB



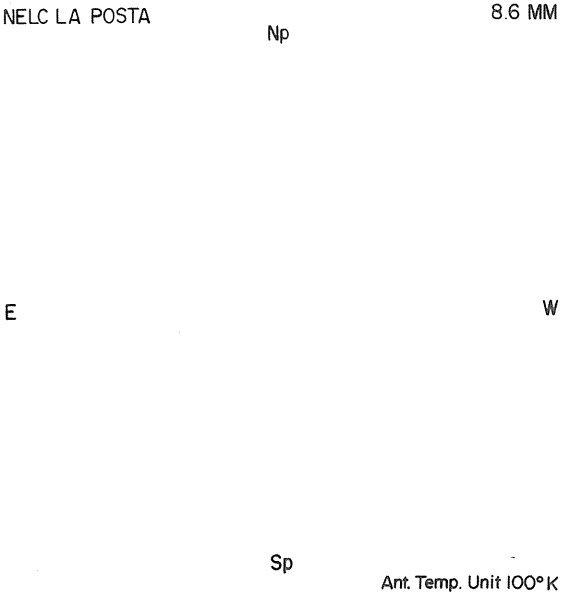
BOULDER



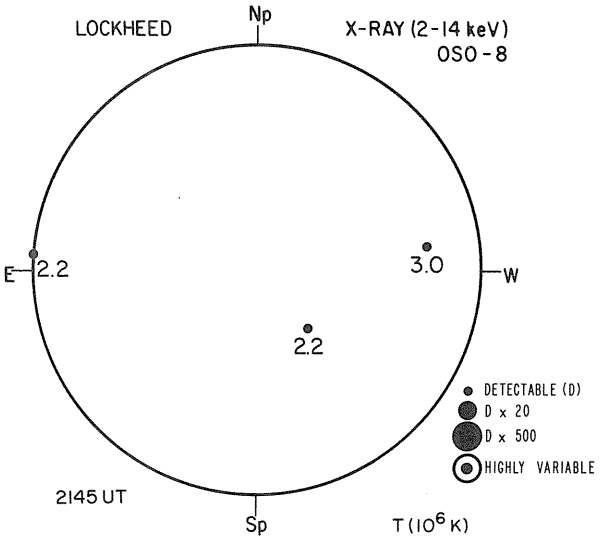
NELC LA POSTA

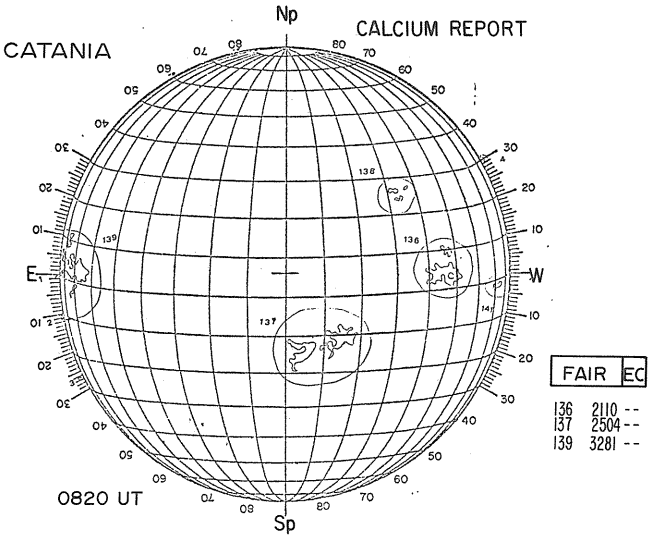


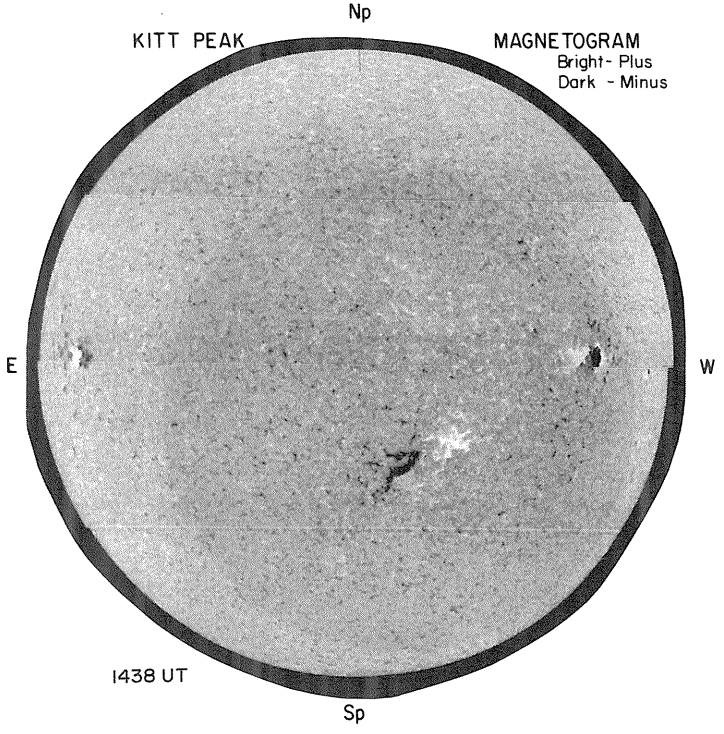
NELC LA POSTA

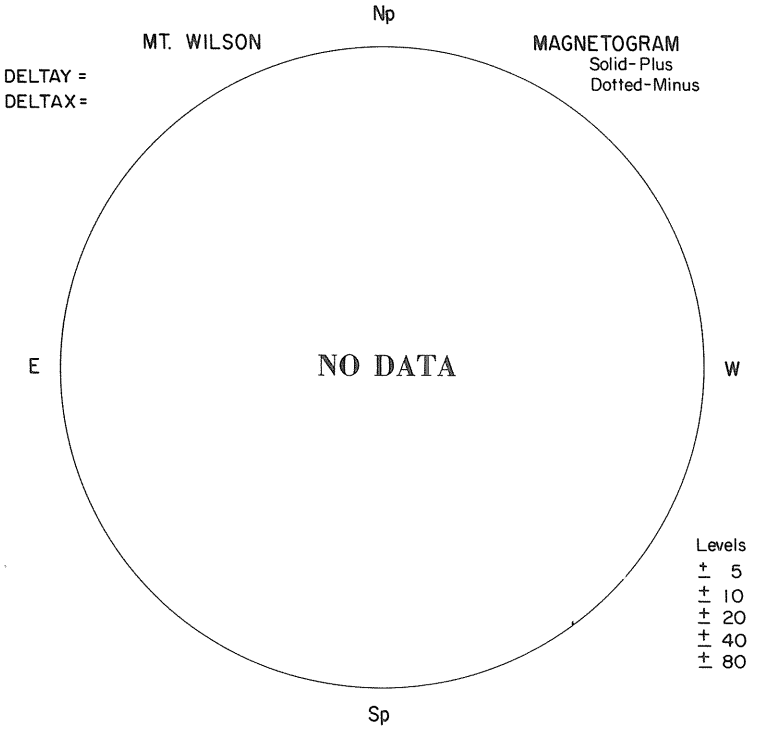


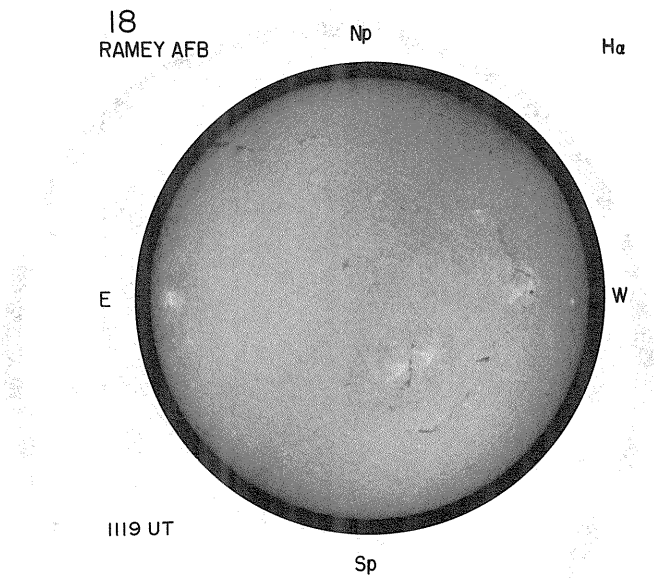
OCTOBER 18, 1975 (P = 26.14, B_0 = 5.66, L_0 = 57.15)

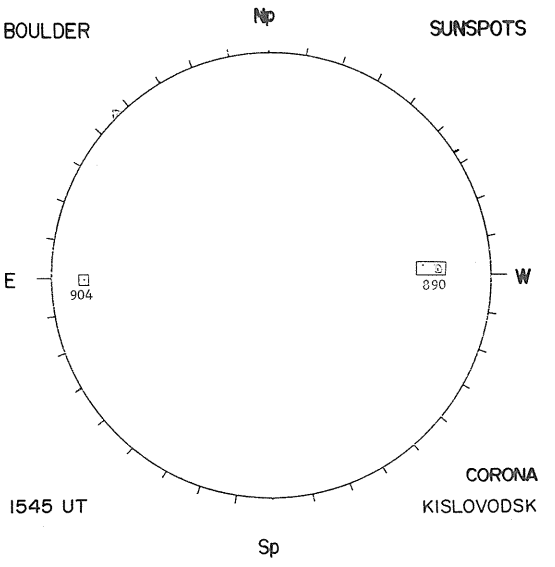


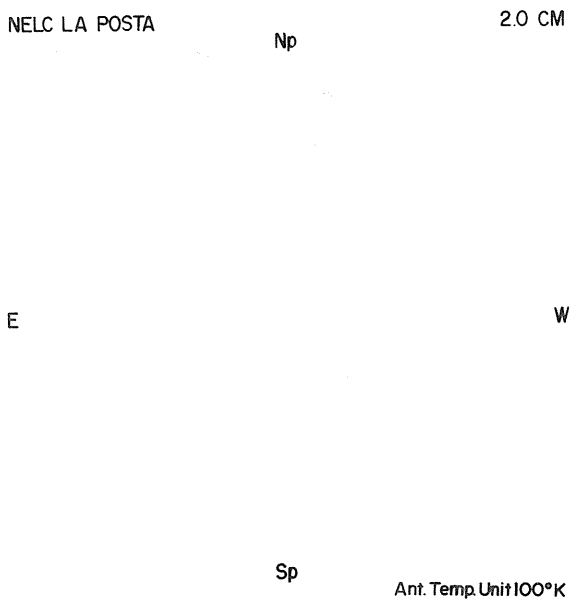


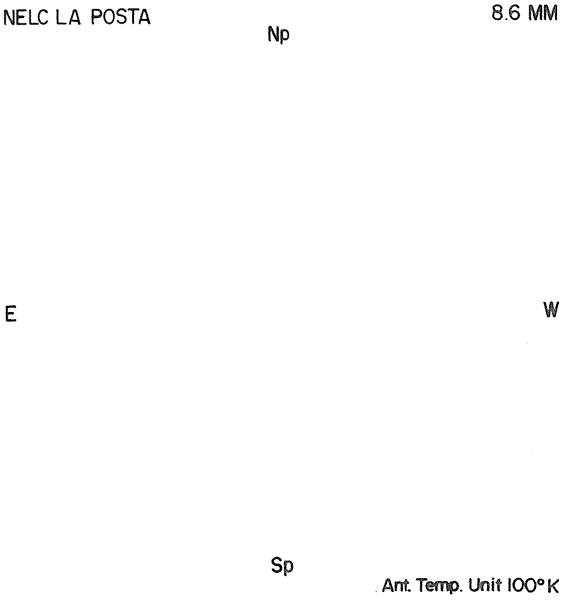




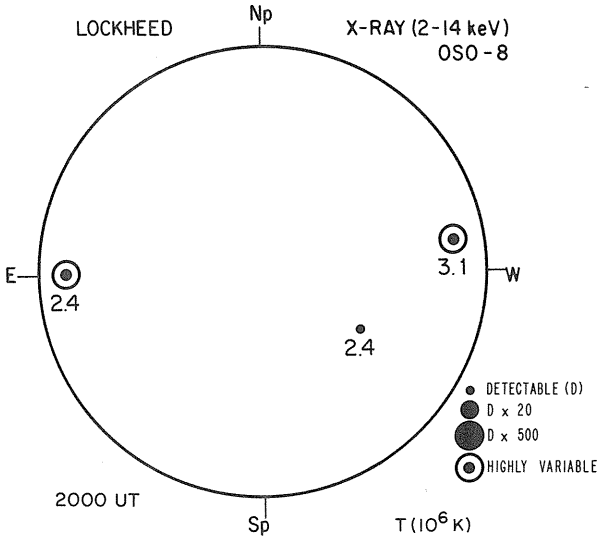

18
RAMEY AFB
Np
Hα
E
W
1119 UT
Sp

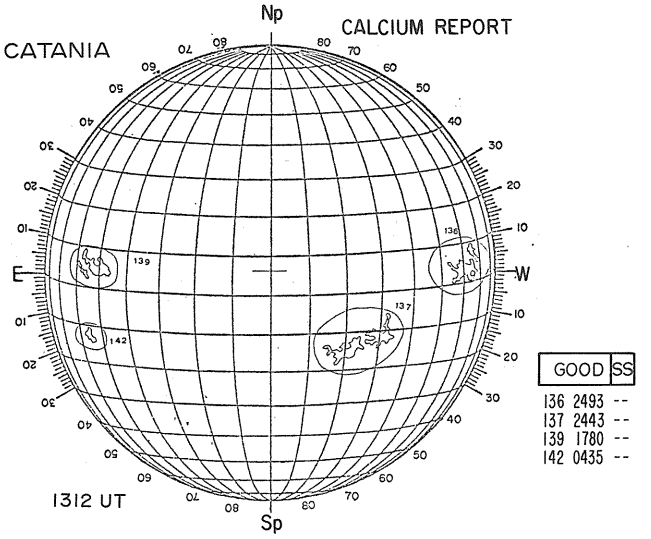

BOULDER
Np
SUNSPOTS
E
904
890
W
CORONA
1545 UT
KISLOVODSK
Sp

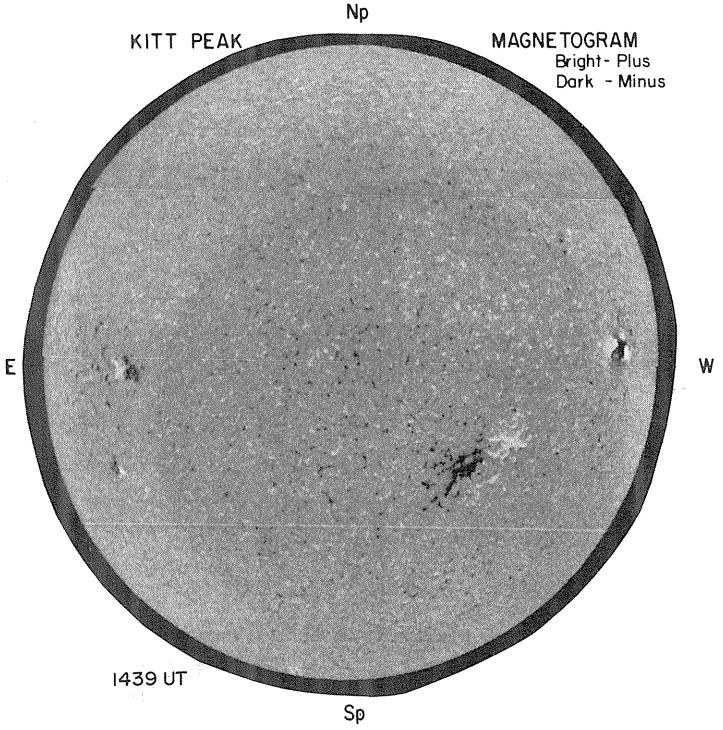

NELC LA POSTA
Np
2.0 CM
E
W
Sp
Ant. Temp. Unit 100°K

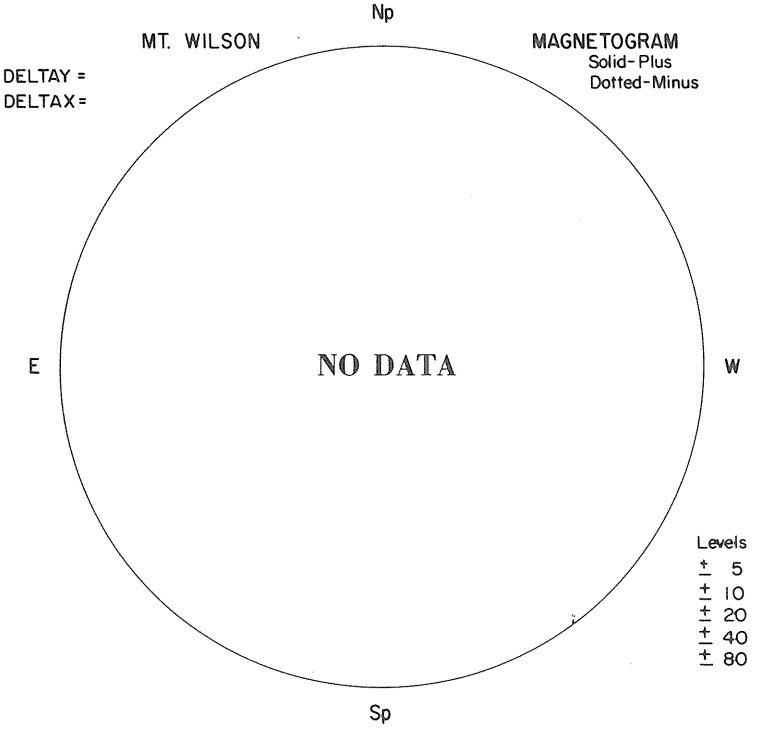

NELC LA POSTA
Np
8.6 MM
E
W
Sp
Ant. Temp. Unit 100°K

OCTOBER 19, 1975 (P =26.09, B_0 =5.58, L_0 =43.96)









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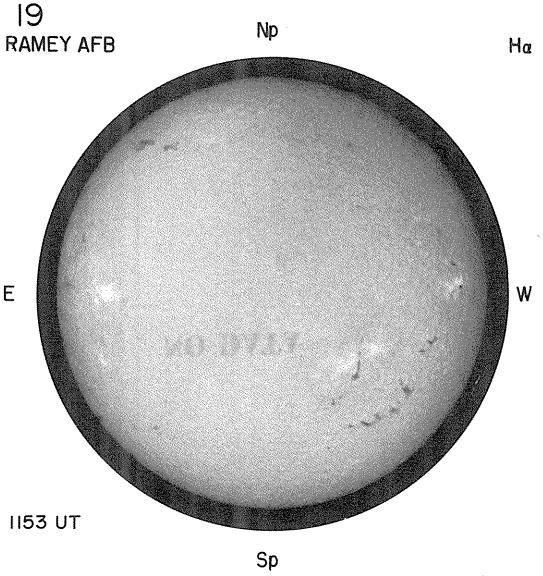
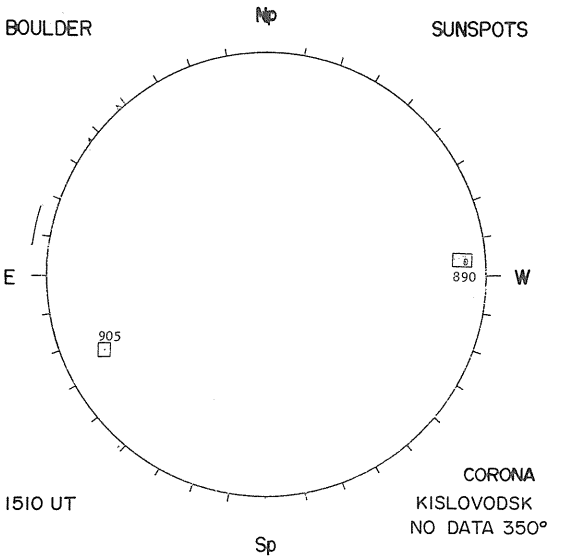
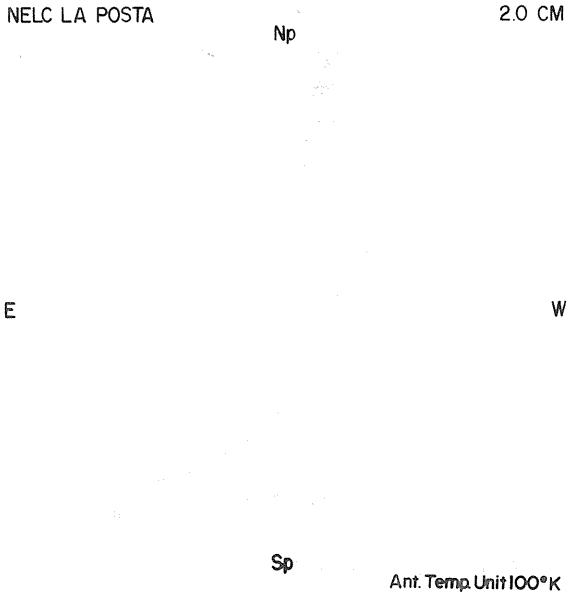
RAMEY AFB



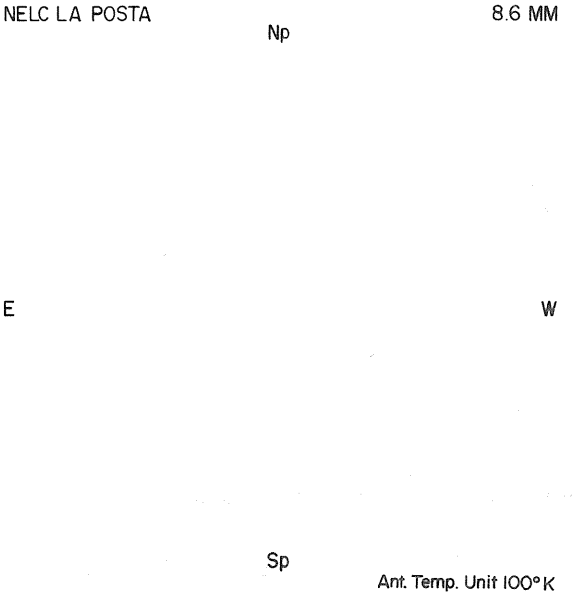
BOULDER



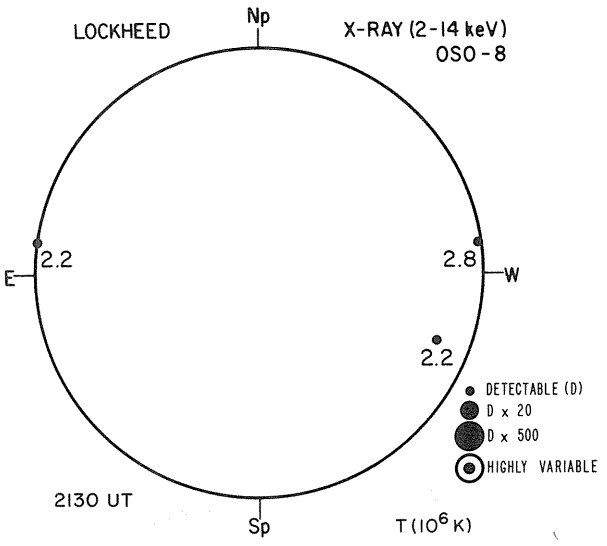
NELC LA POSTA

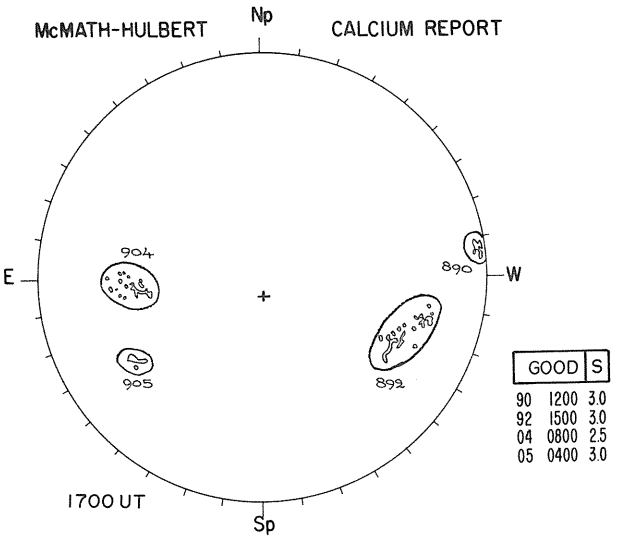


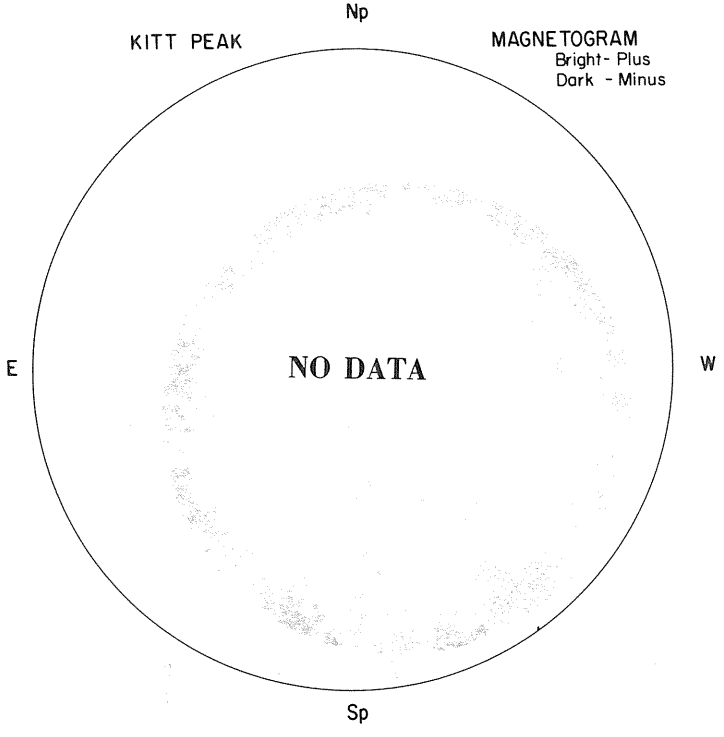
NELC LA POSTA

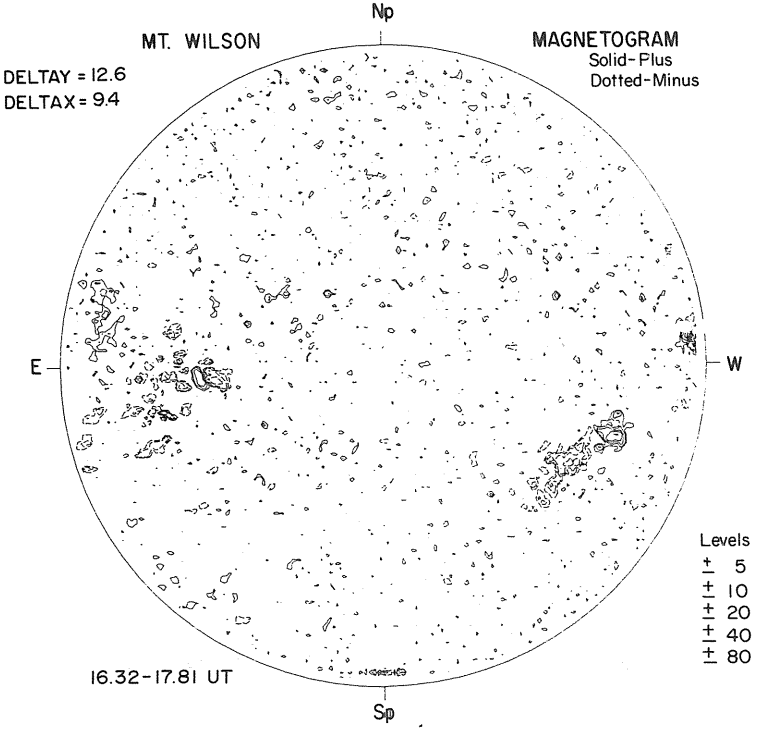


OCTOBER 20, 1975 (P = 26.02, B_o = 5.50, L_o = 30.77)









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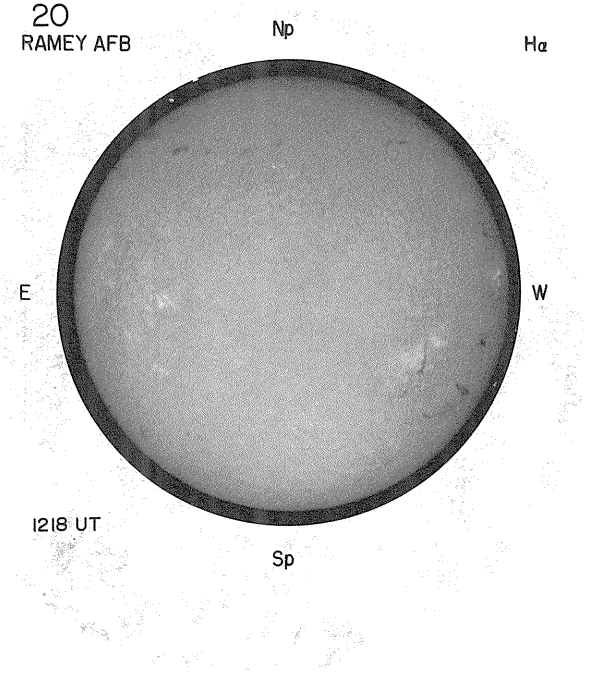
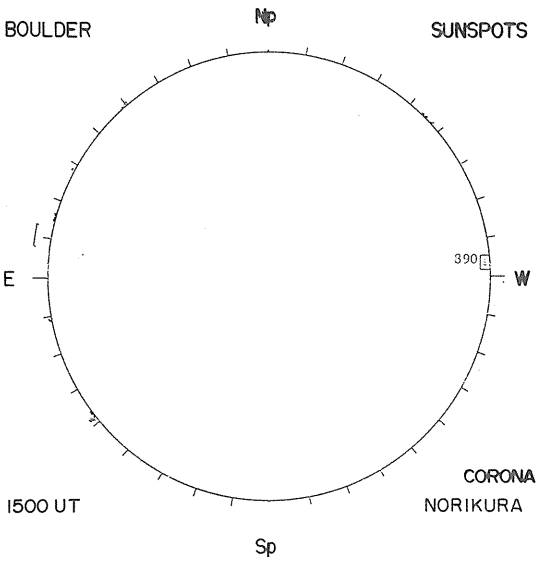
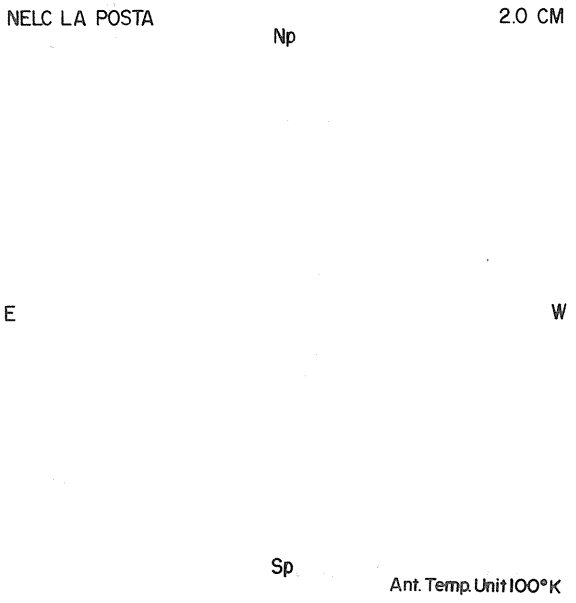
RAMEY AFB



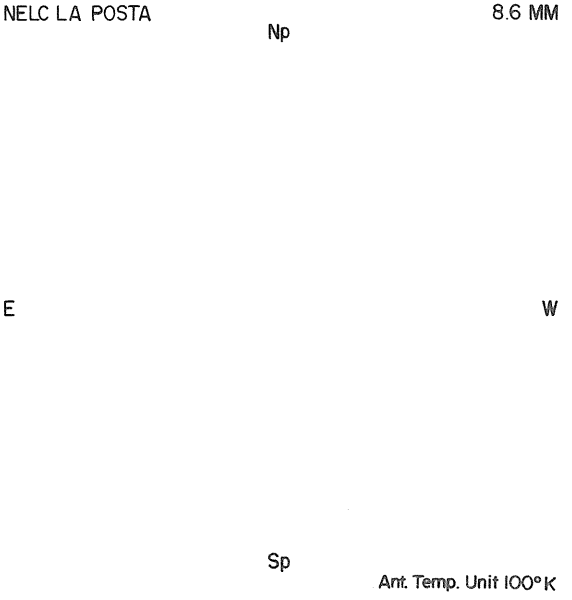
BOULDER



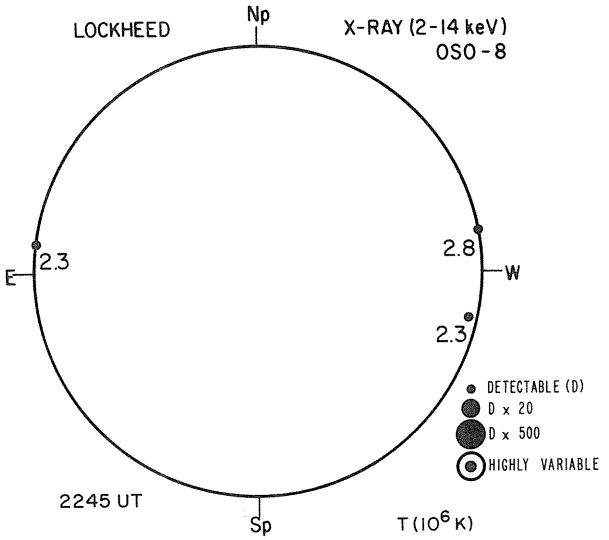
NELC LA POSTA

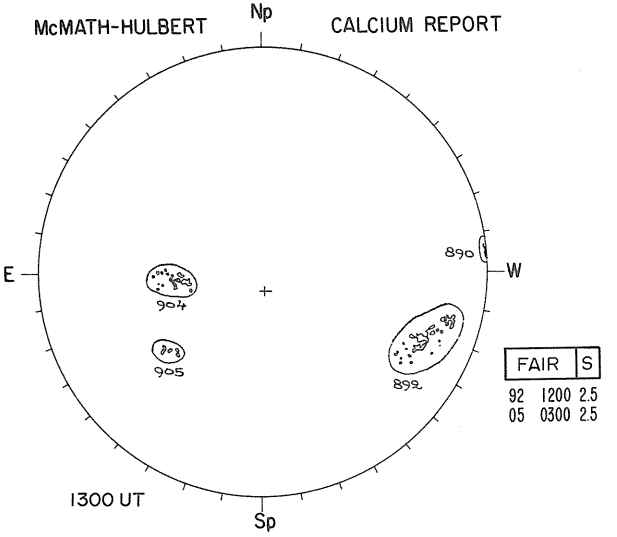


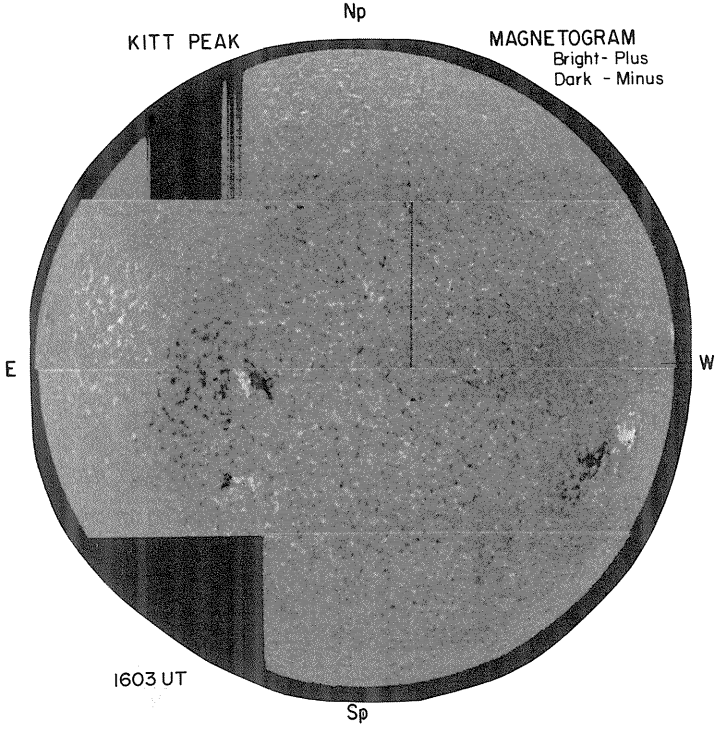
NELC LA POSTA

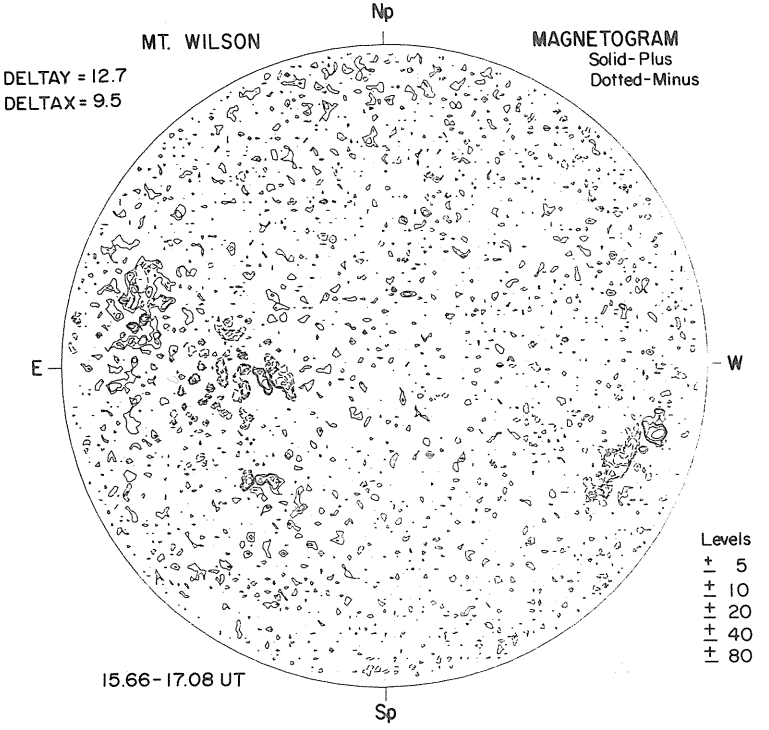


OCTOBER 21, 1975 (P =25.95, B_0 =5.42, L_0 =17.58)

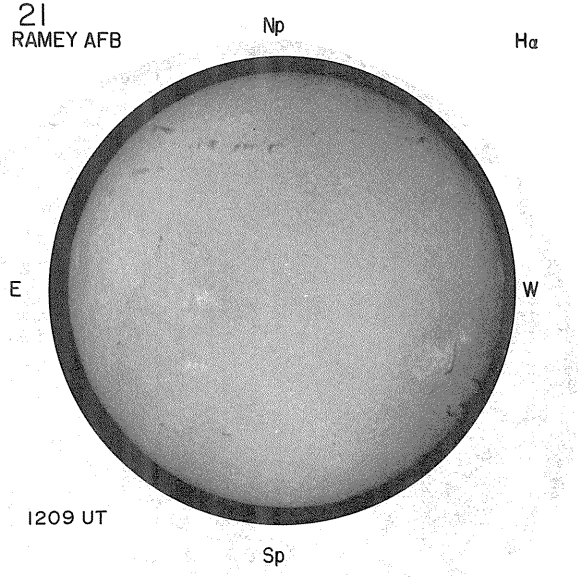




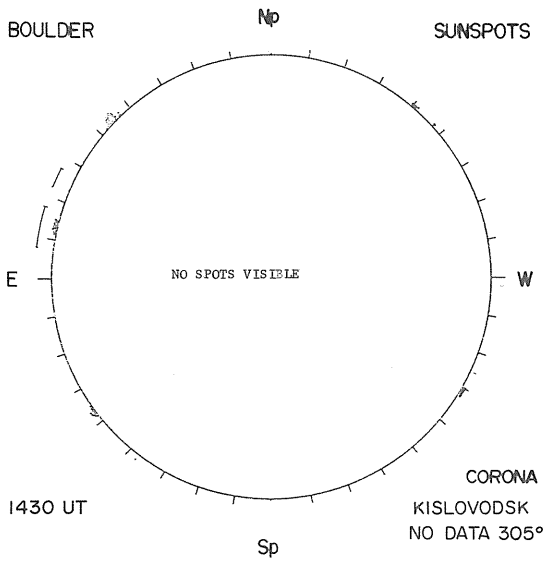




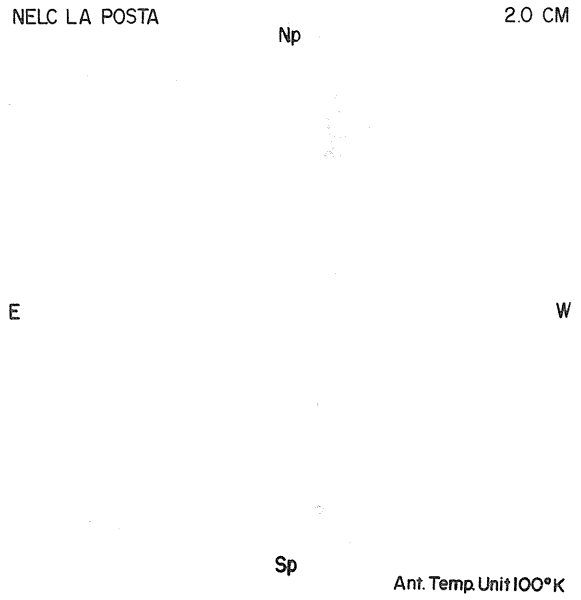
21
RAMEY AFB



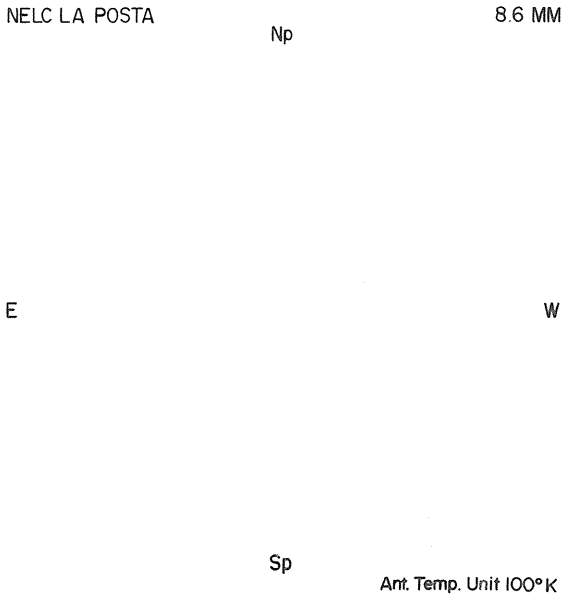
BOULDER



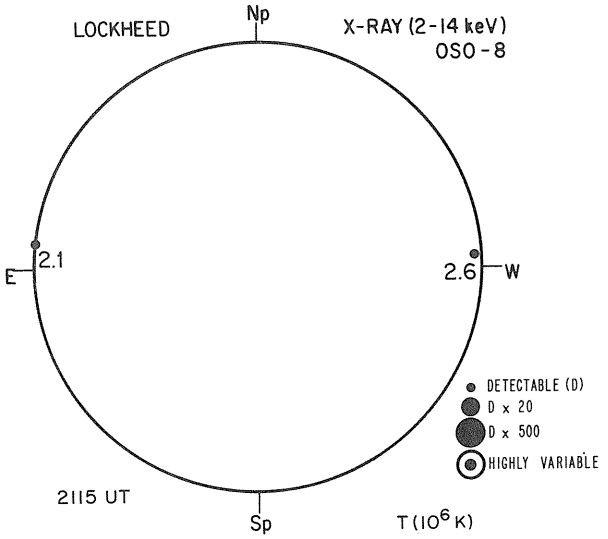
NELC LA POSTA

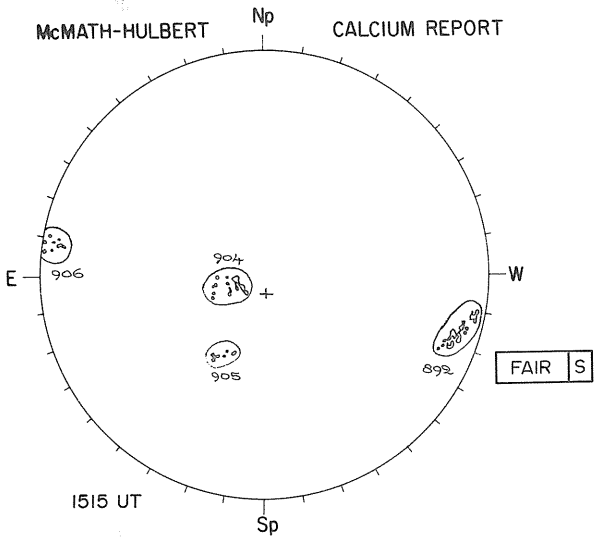


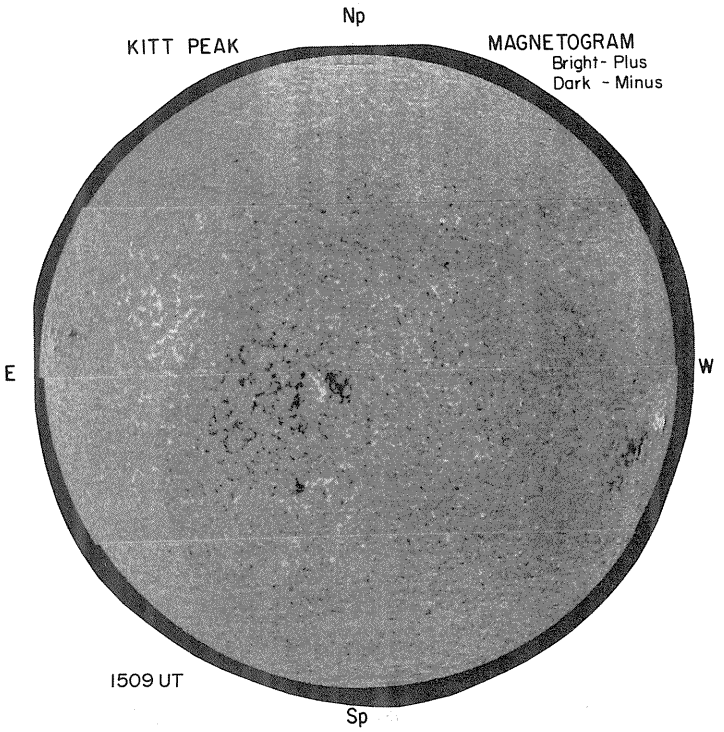
NELC LA POSTA

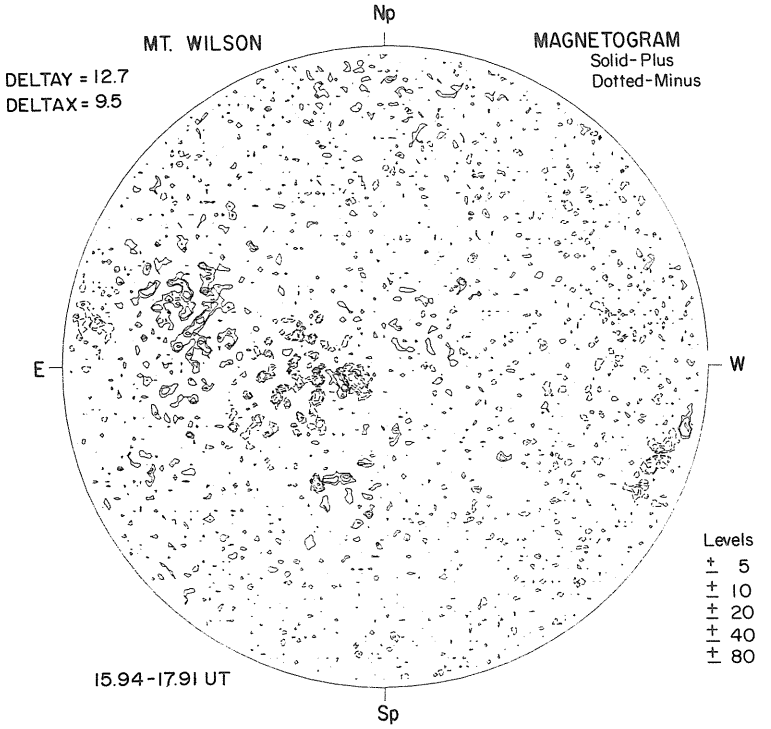


OCTOBER 22, 1975 (P = 25.87, B_o = 5.34, L_o = 4.39)



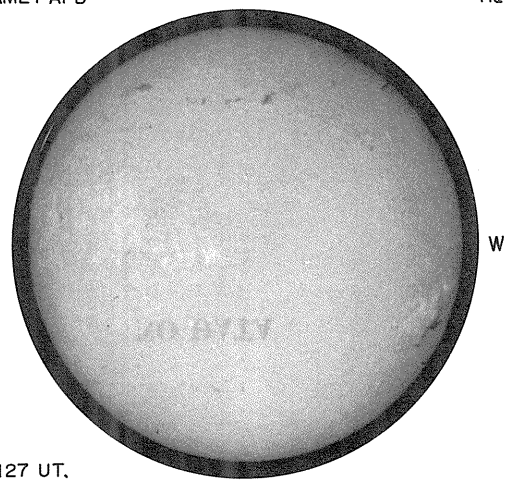




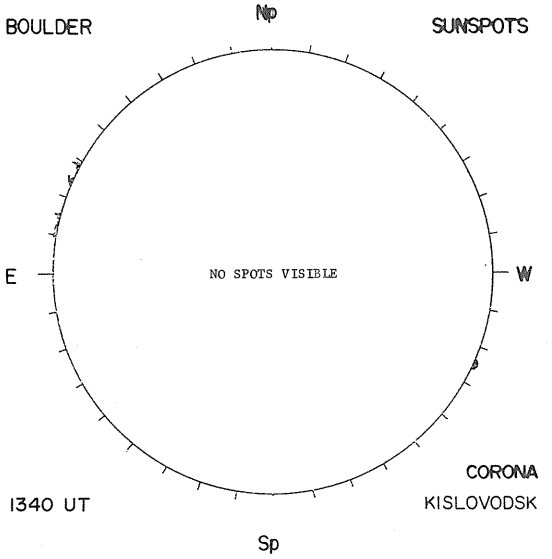


22

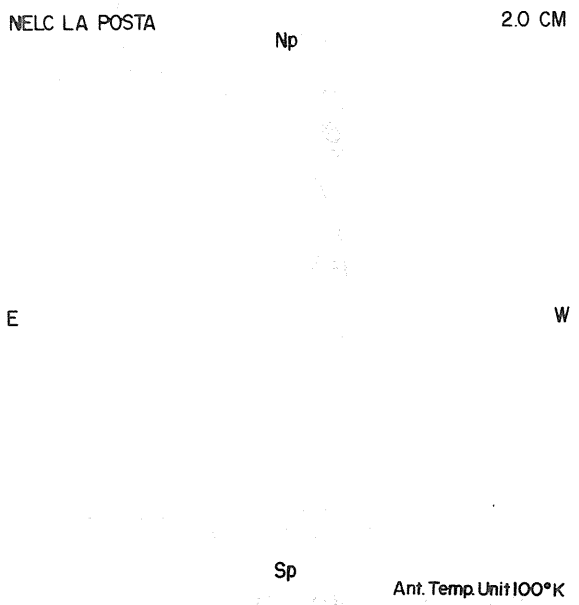
RAMEY AFB



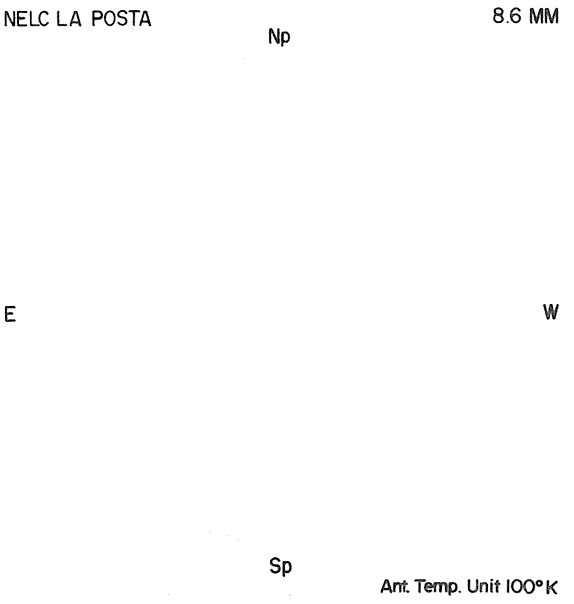
BOULDER



NELC LA POSTA

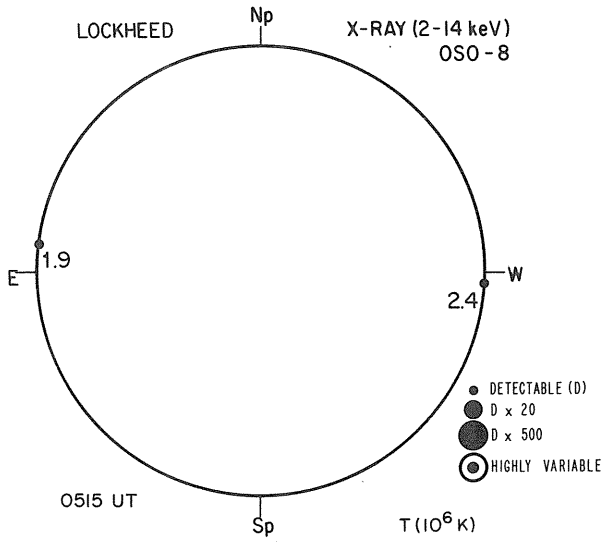


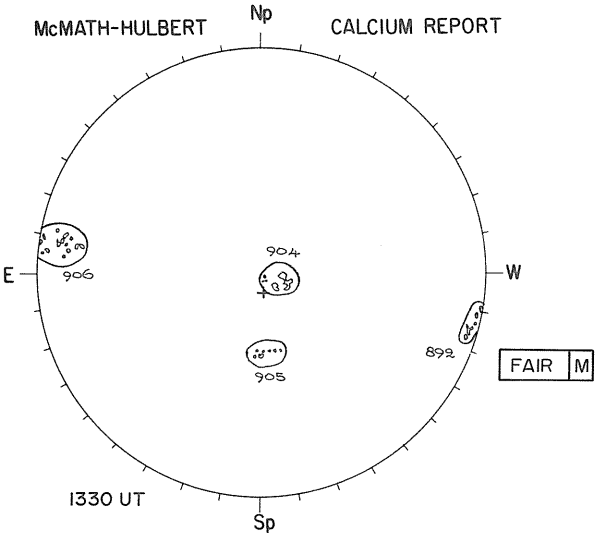
NELC LA POSTA

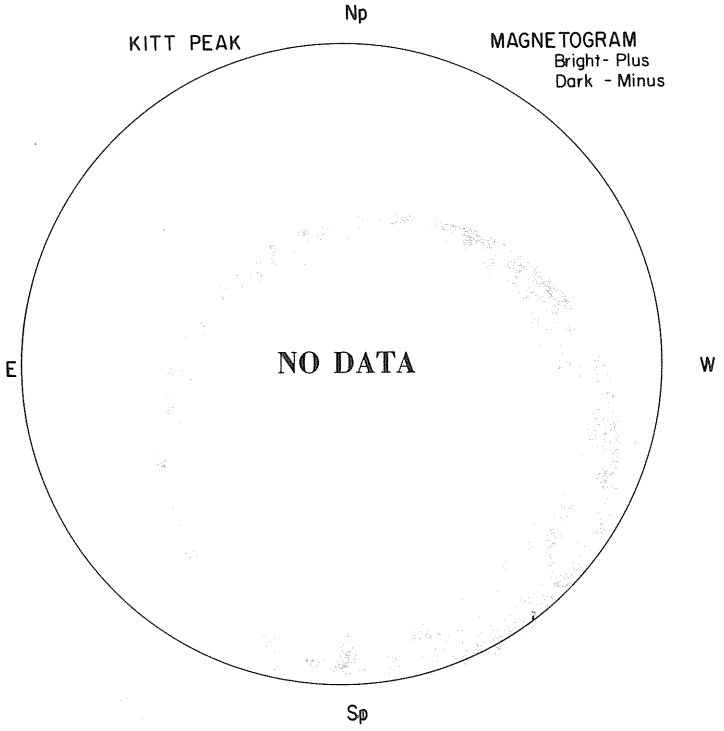


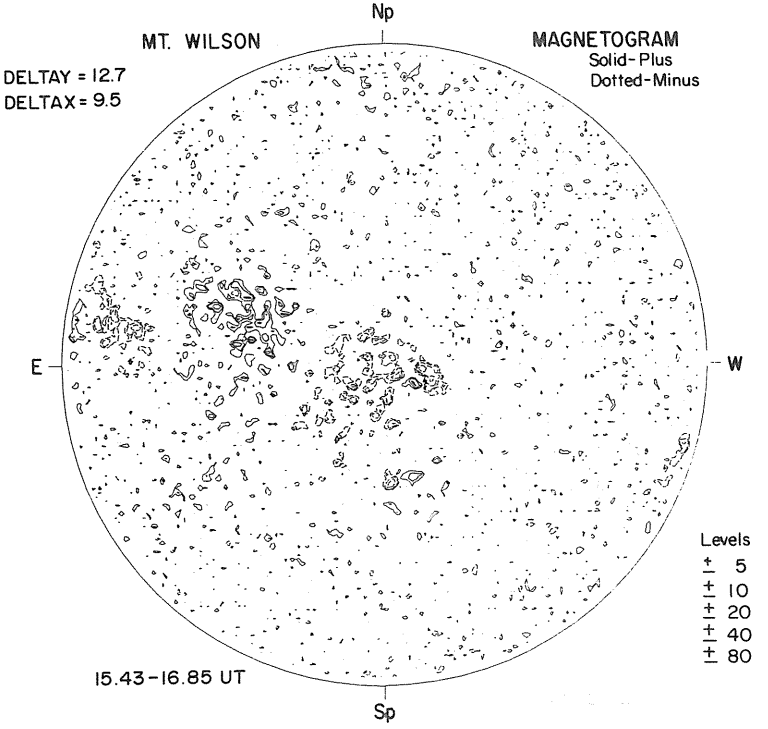
71
Oct 75

OCTOBER 23, 1975 (P = 25.78, B_o = 5.25, L_o = 351.20)

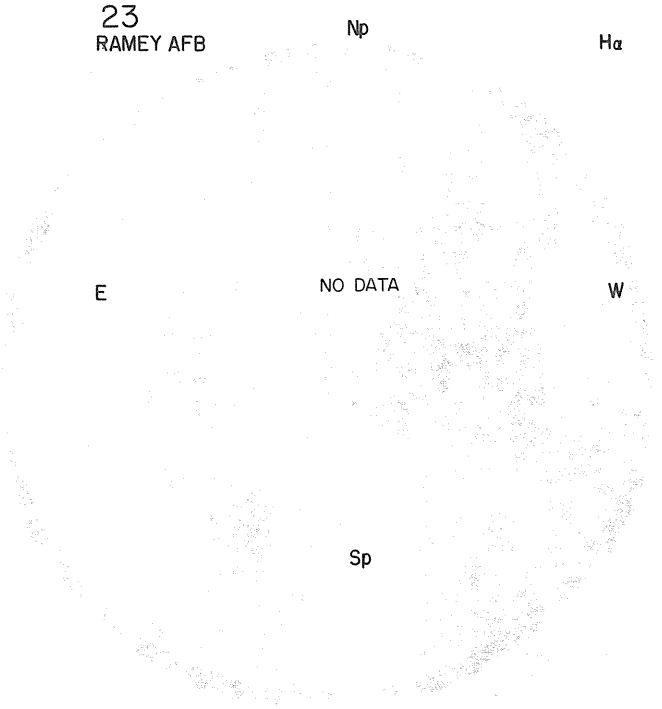


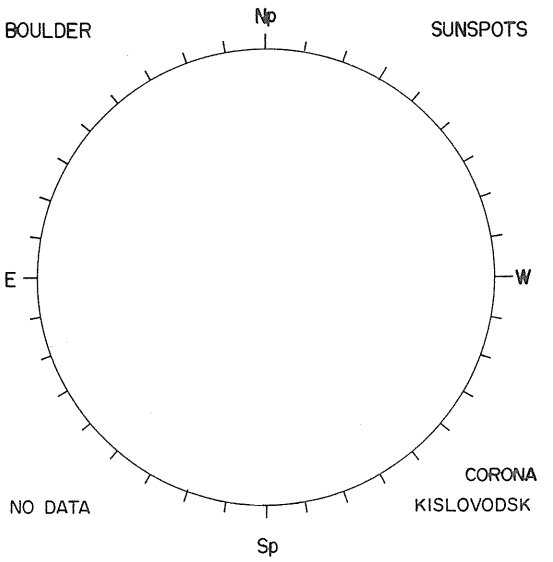


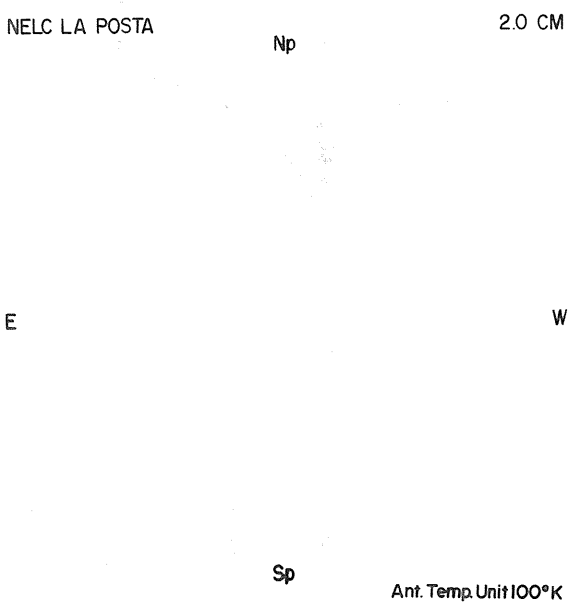


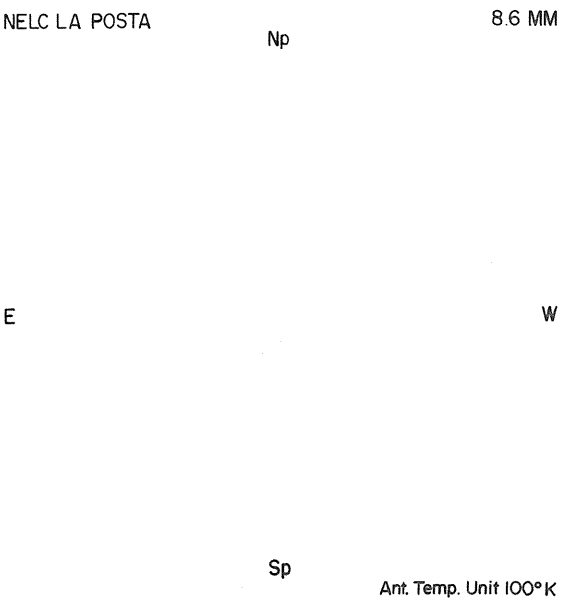


23
RAMEY AFB



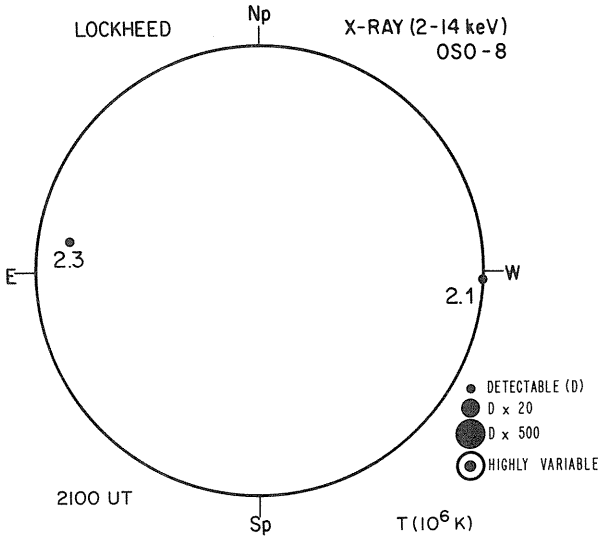


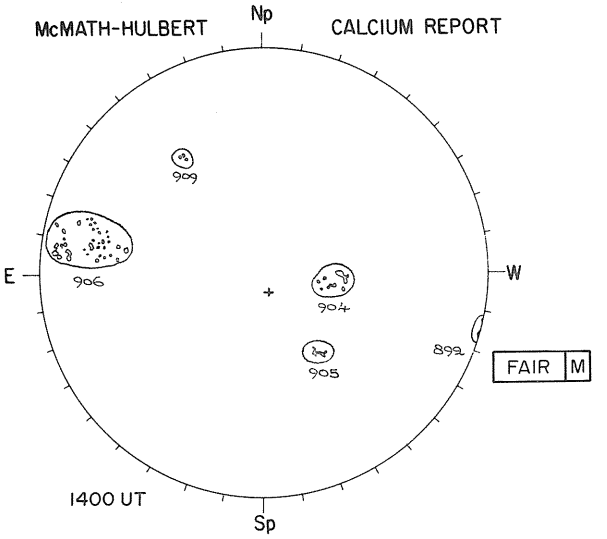


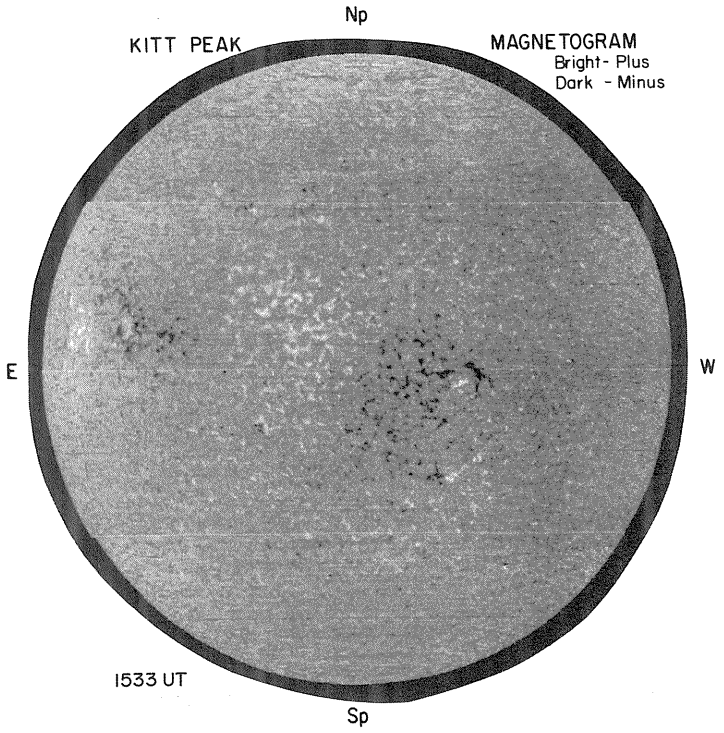


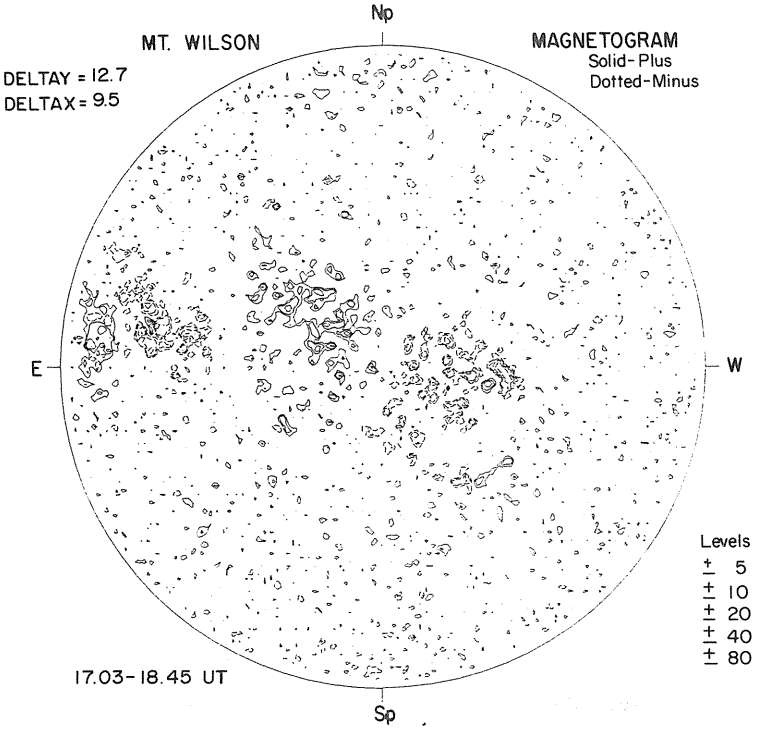
73
Oct 75

OCTOBER 24, 1975 (P =25.69, B_o =5.16, L_o =338.01)

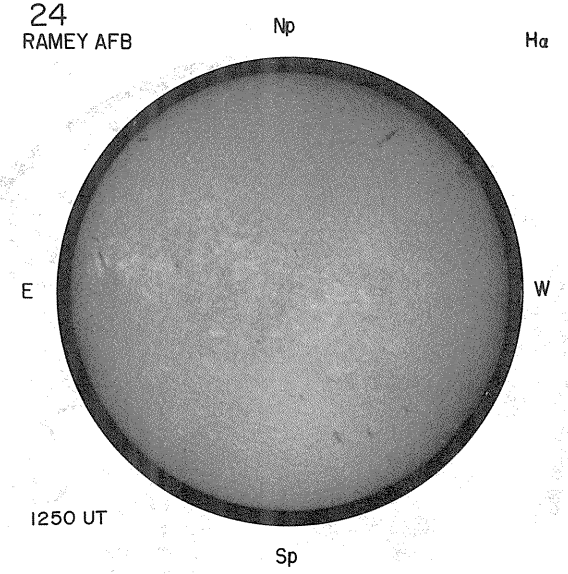




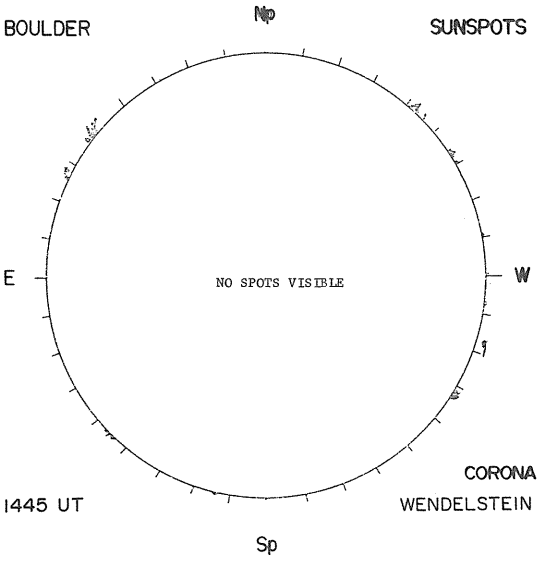




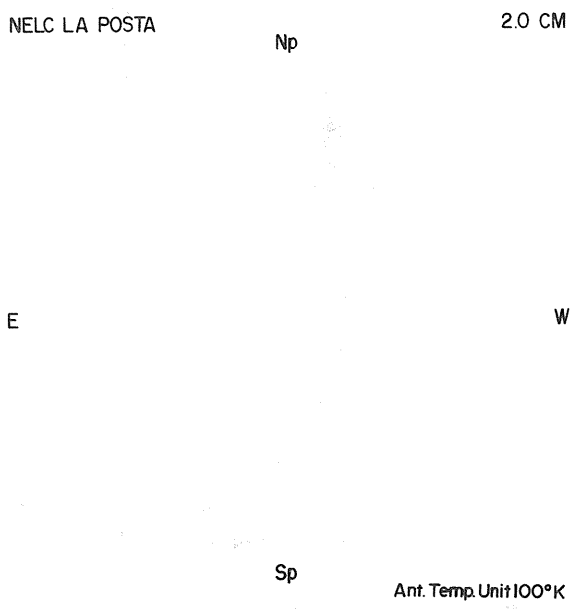
24
RAMEY AFB



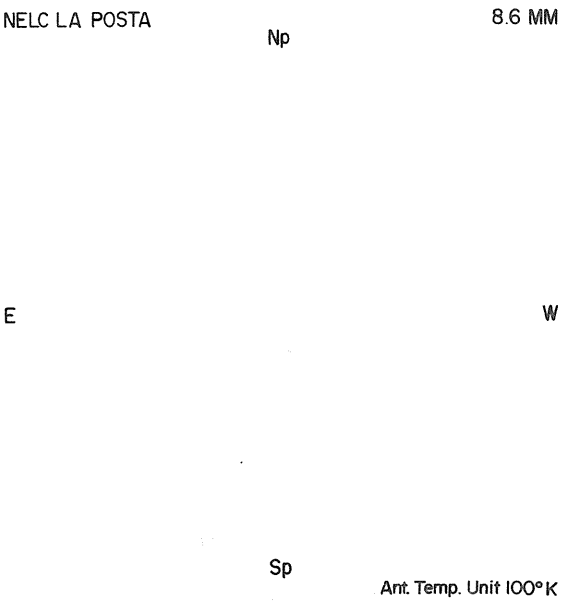
BOULDER



NELC LA POSTA

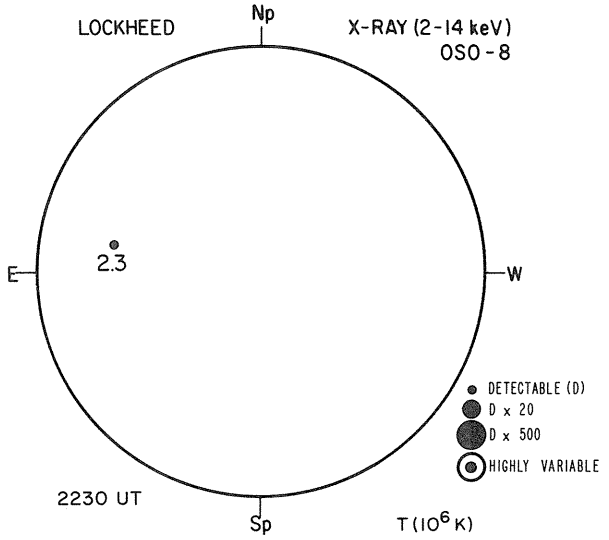


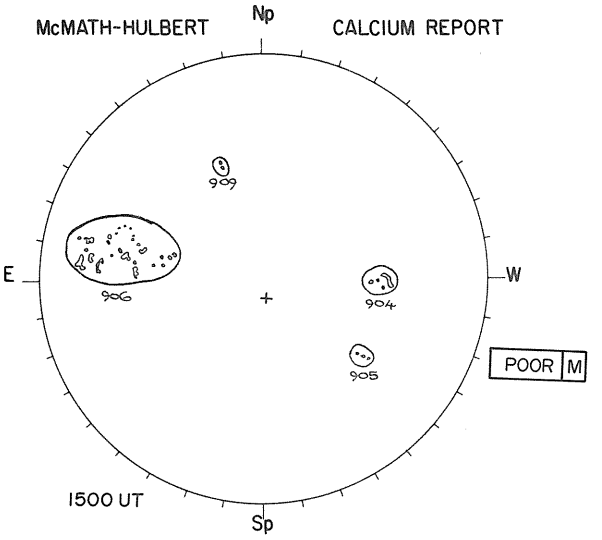
NELC LA POSTA

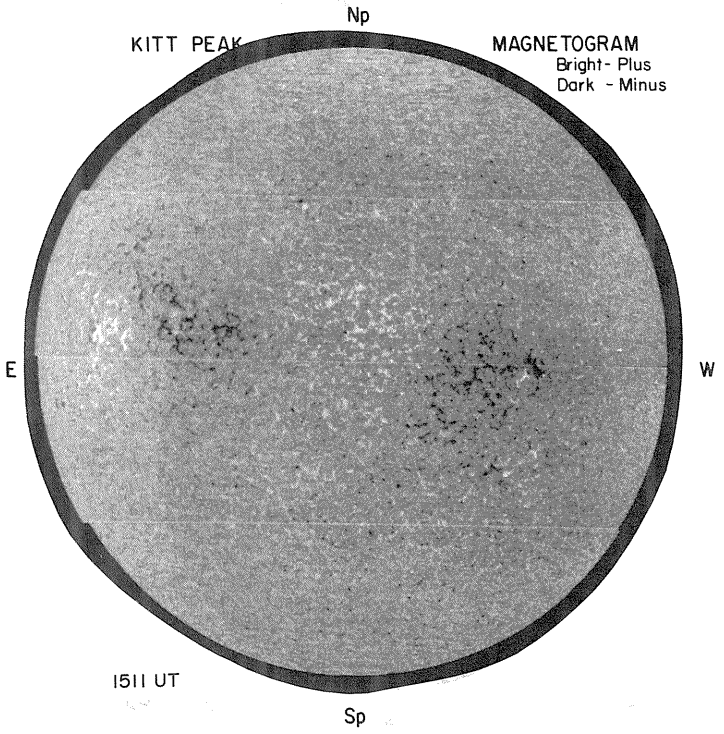


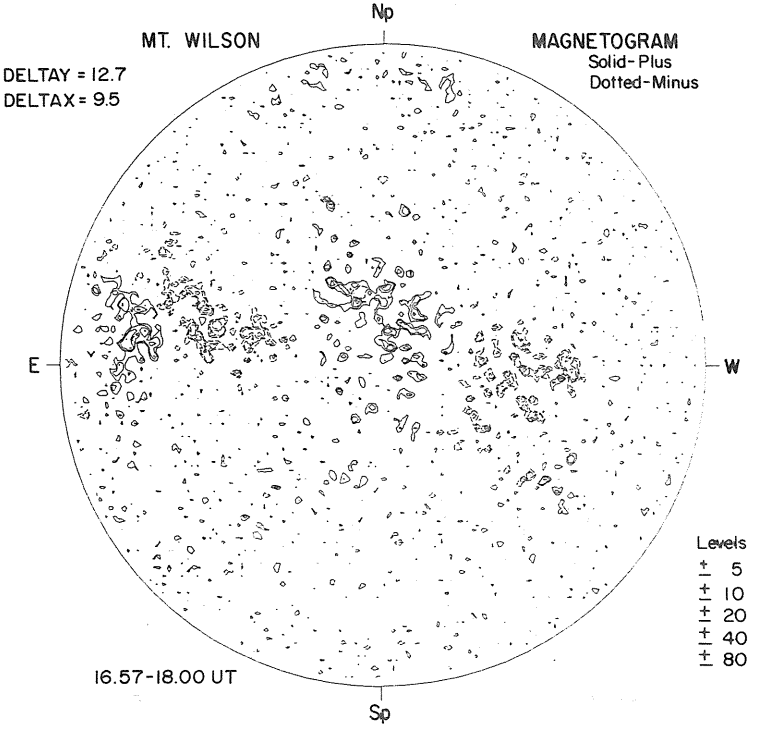
75
Oct 75

OCTOBER 25, 1975 (P = 25.58, B_0 = 5.07, L_0 = 324.82)

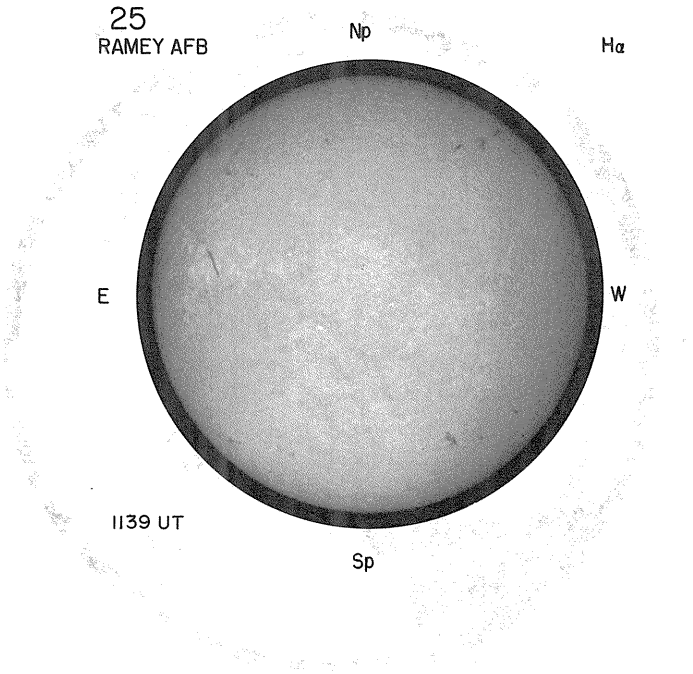




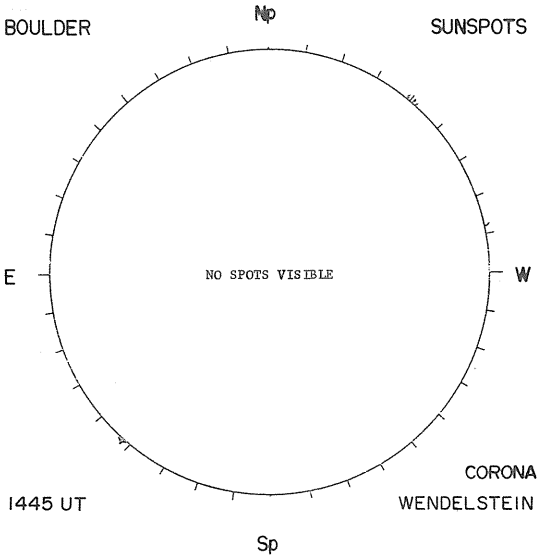




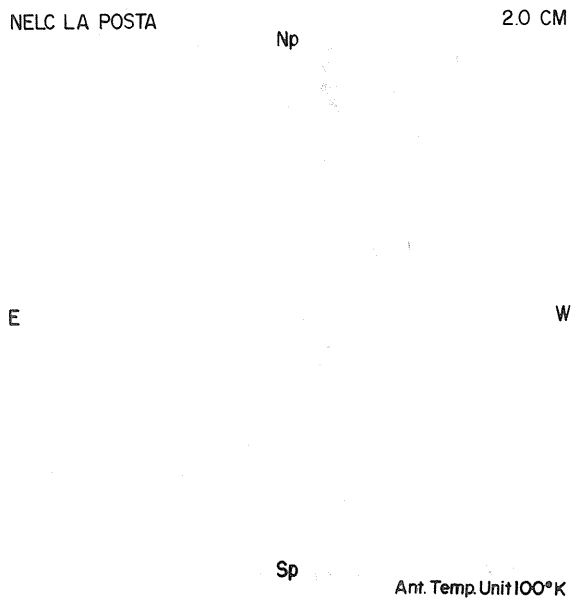
25
RAMEY AFB



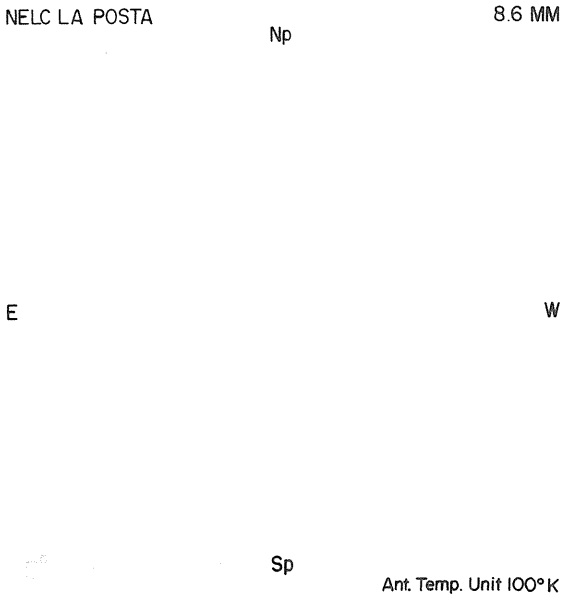
BOULDER



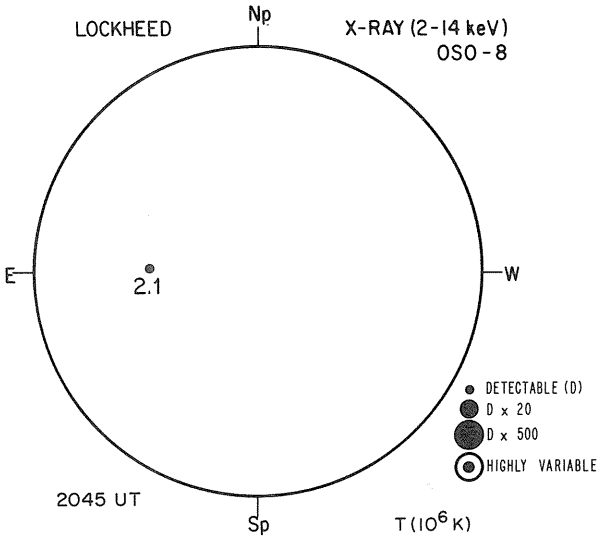
NELC LA POSTA

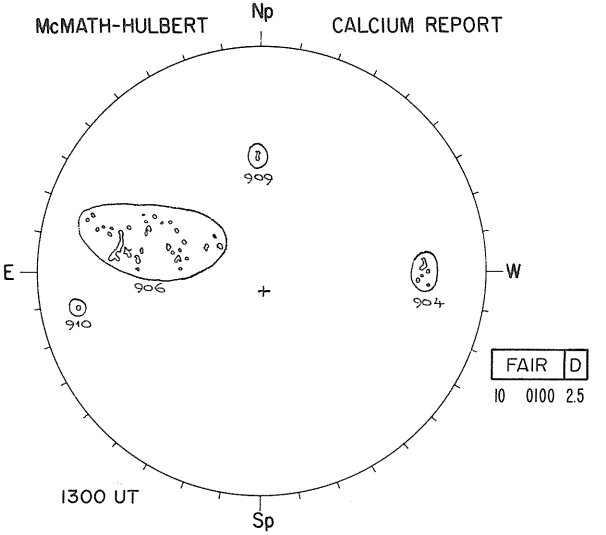


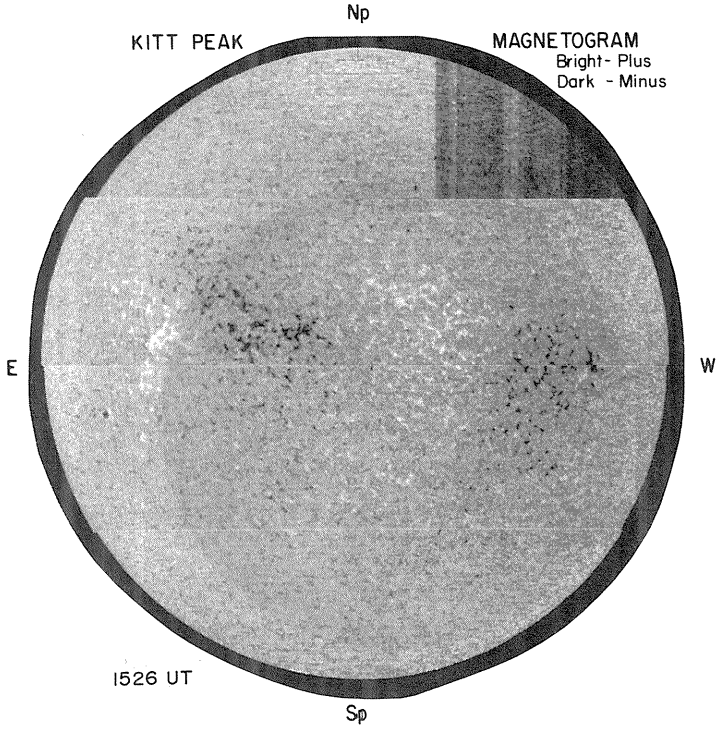
NELC LA POSTA

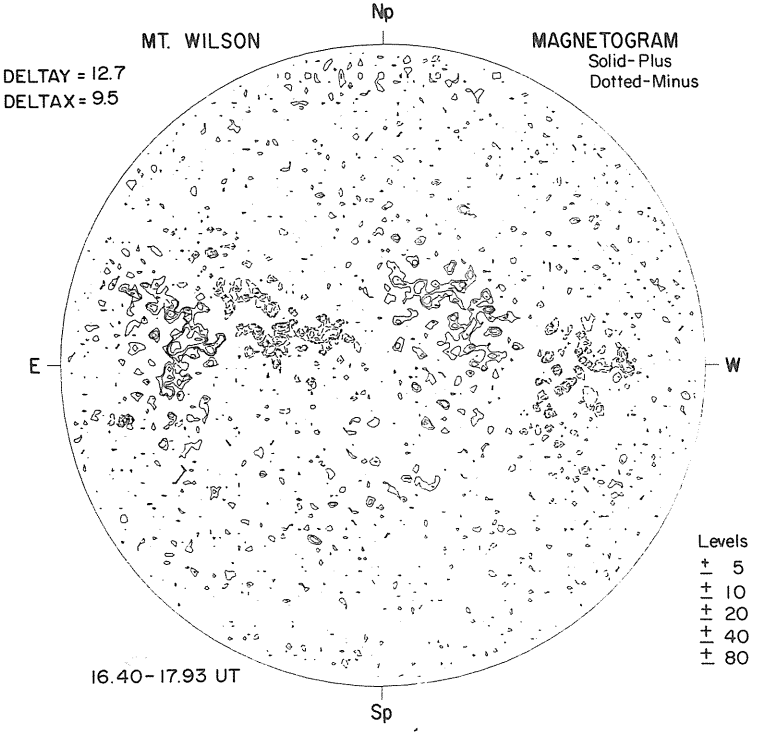


OCTOBER 26, 1975 (P =25.47, B_o =4.98, L_o =311.64)



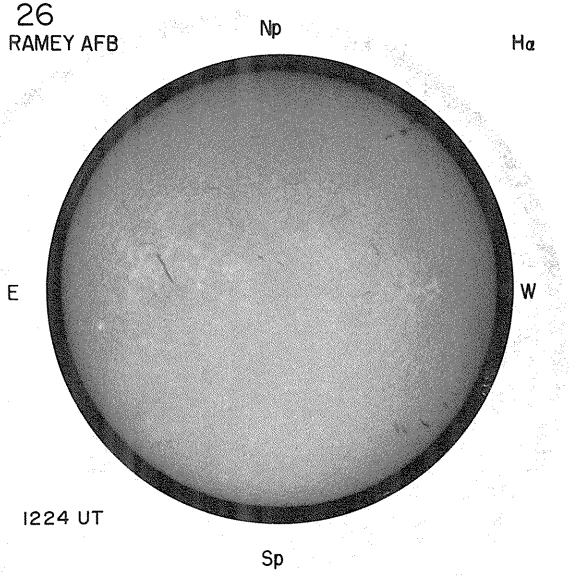




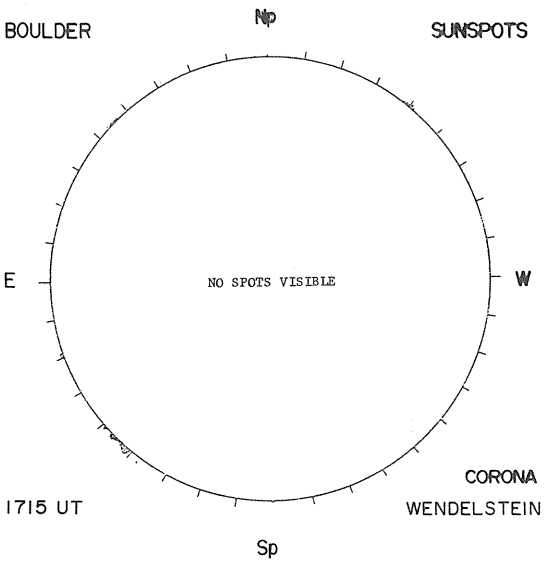


26

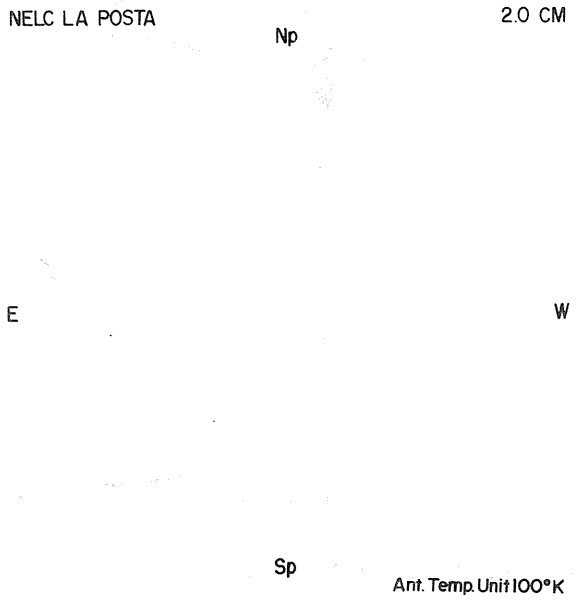
RAMEY AFB



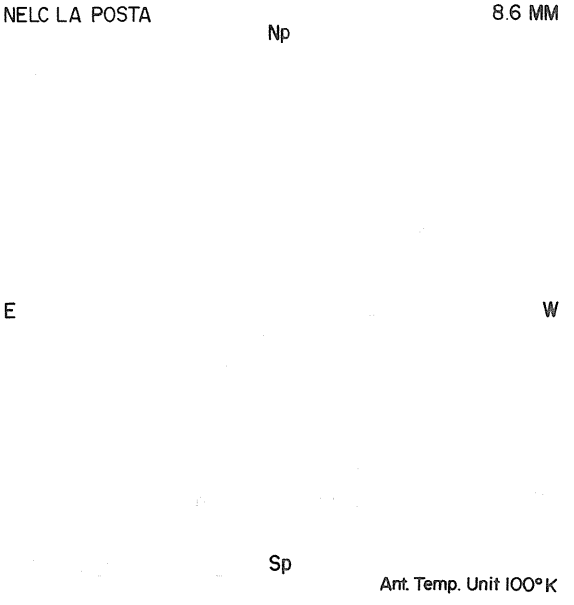
BOULDER



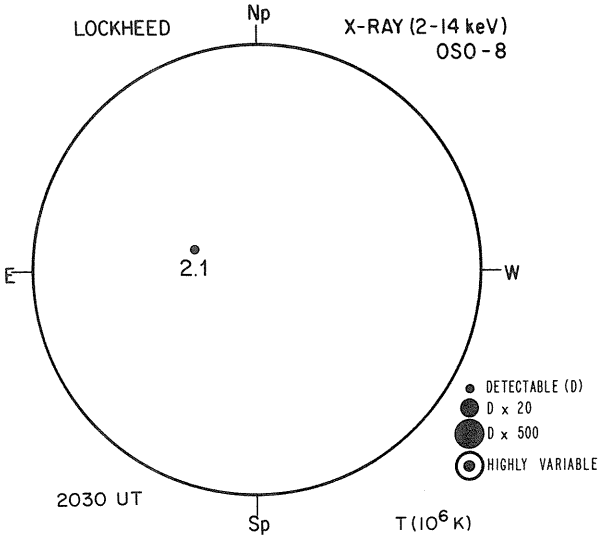
NELC LA POSTA

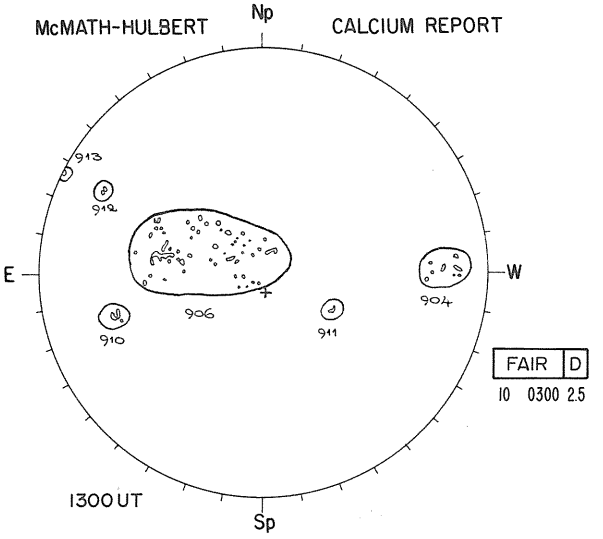


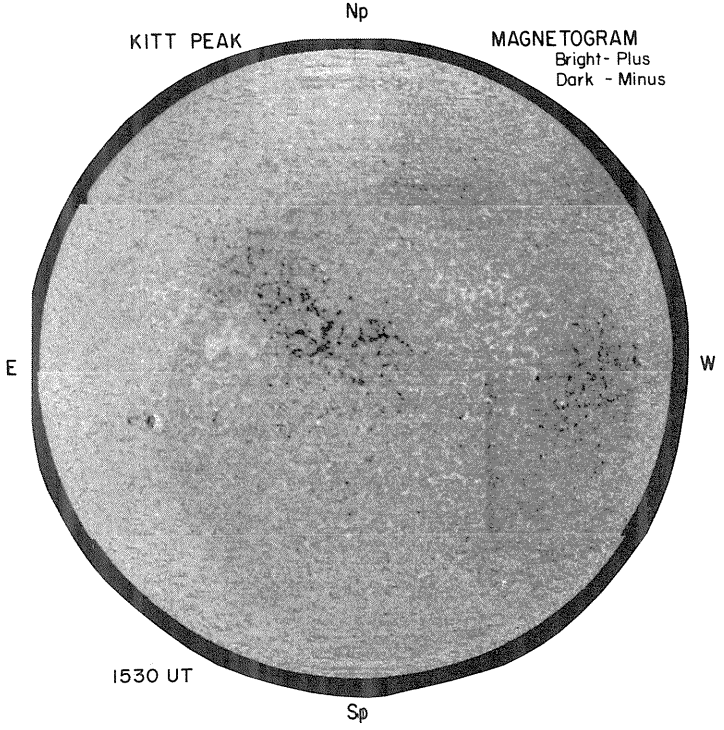
NELC LA POSTA

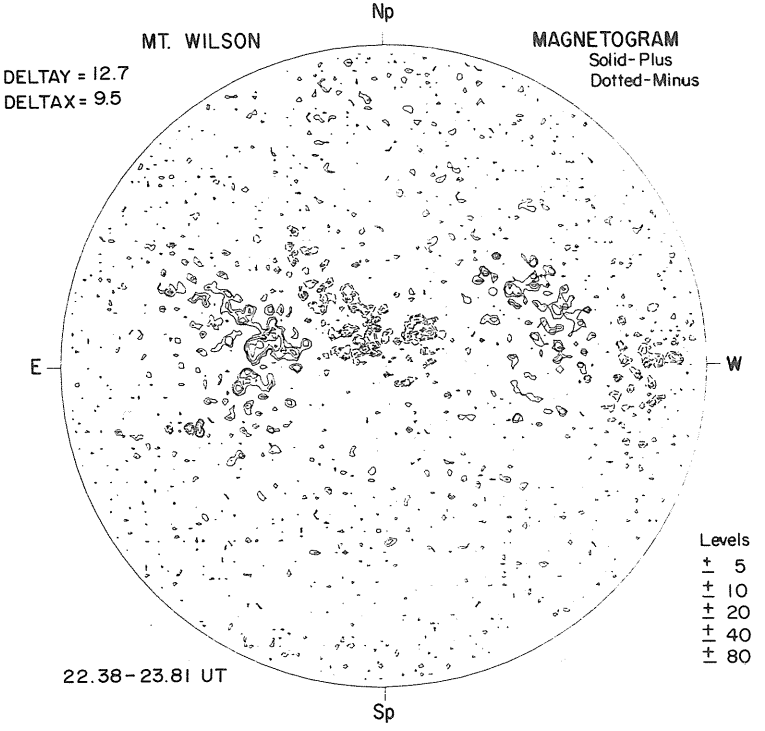


OCTOBER 27, 1975 (P = 25.35, B_0 = 4.89, L_0 = 298.45)



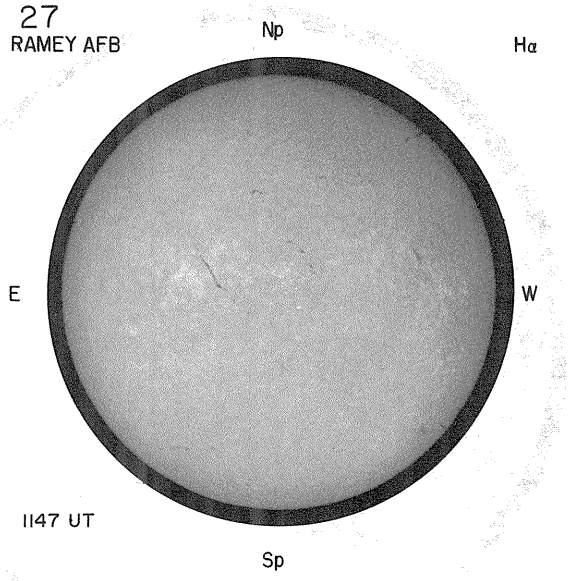




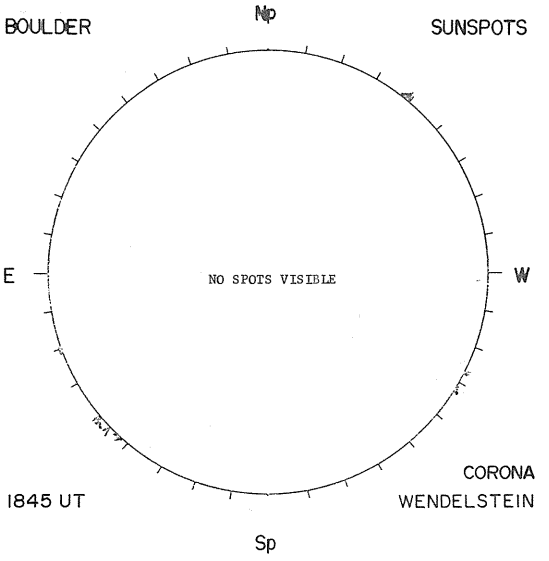


27

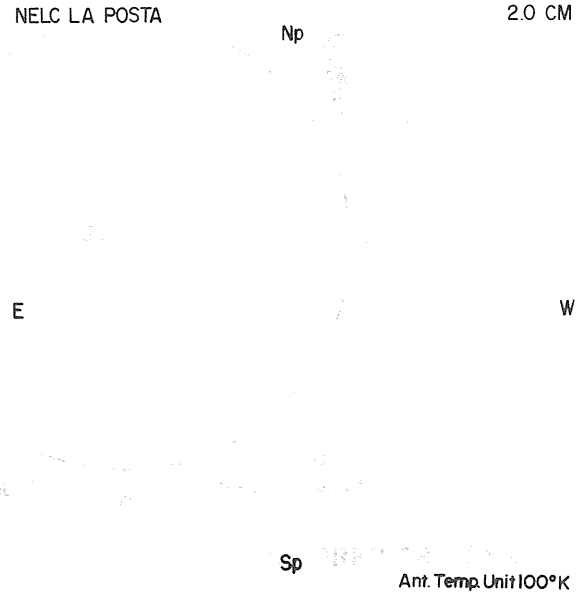
RAMEY AFB



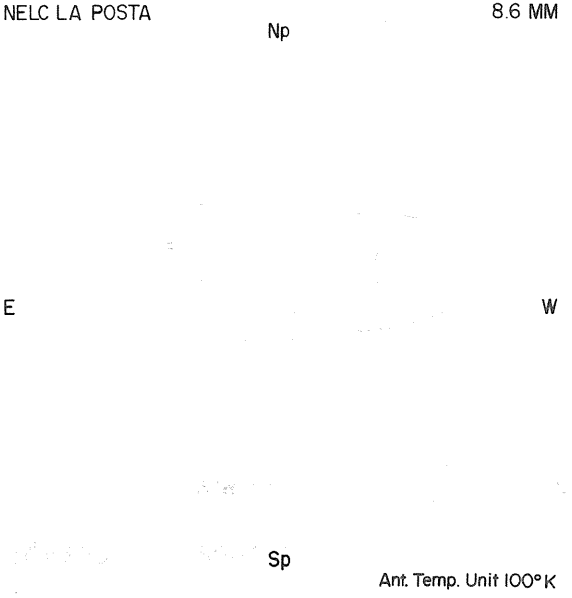
BOULDER



NELC LA POSTA

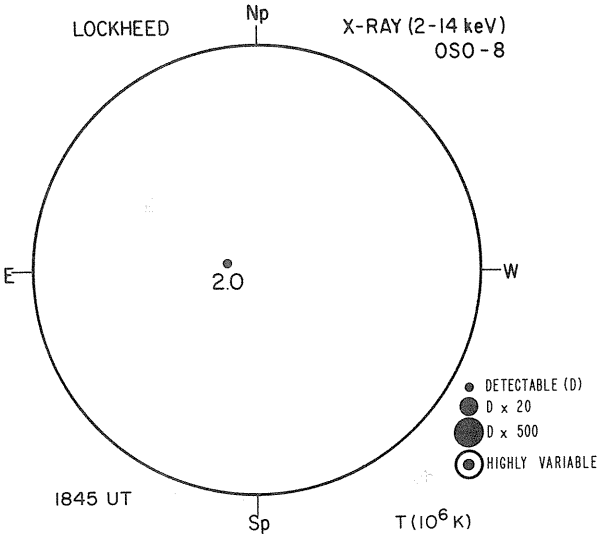


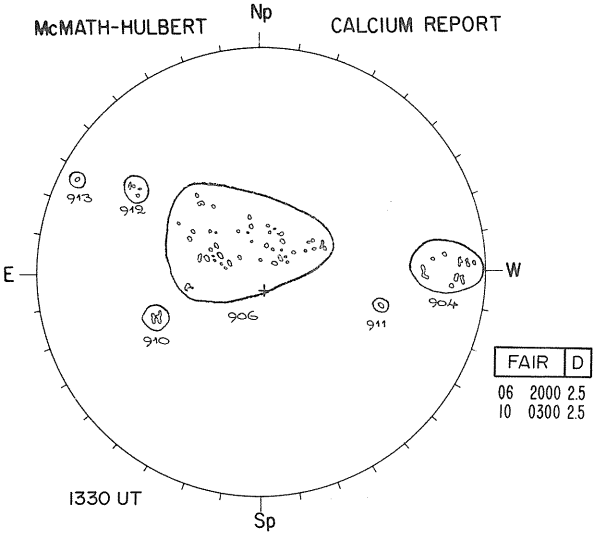
NELC LA POSTA

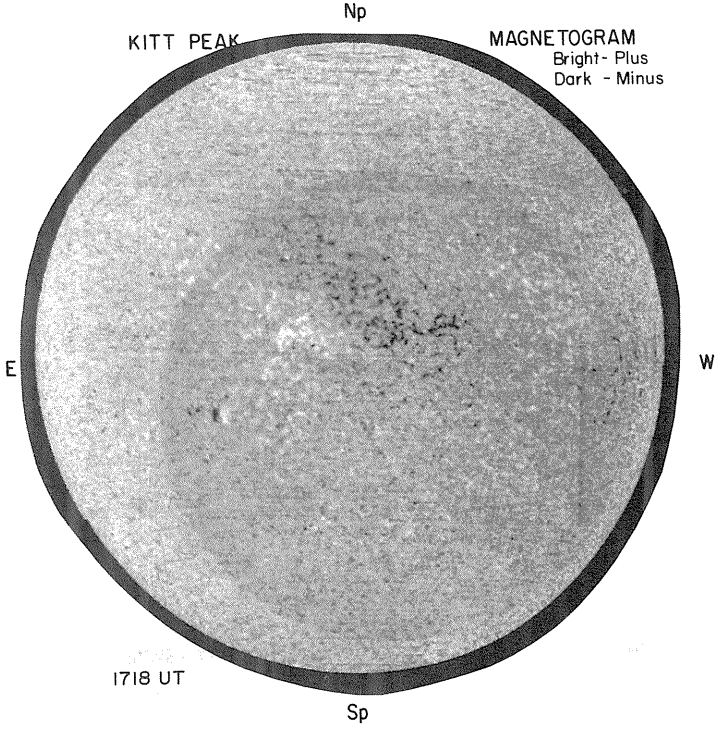


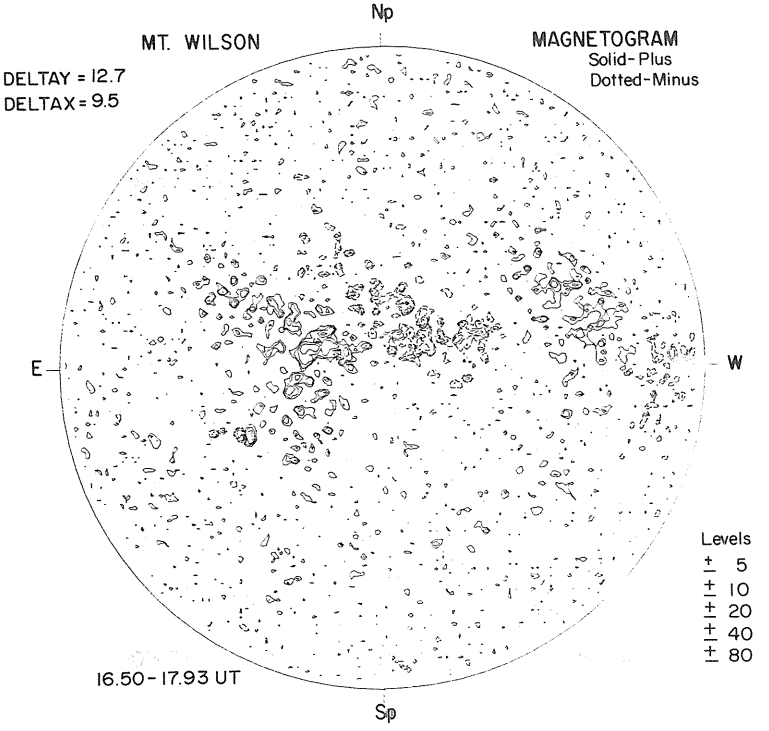
81
Oct 75

OCTOBER 28, 1975 (P = 25.23, B_o = 4.80, L_o = 285.26)

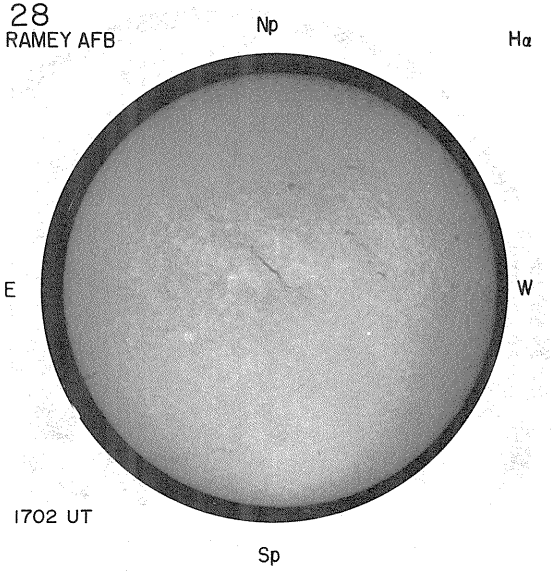






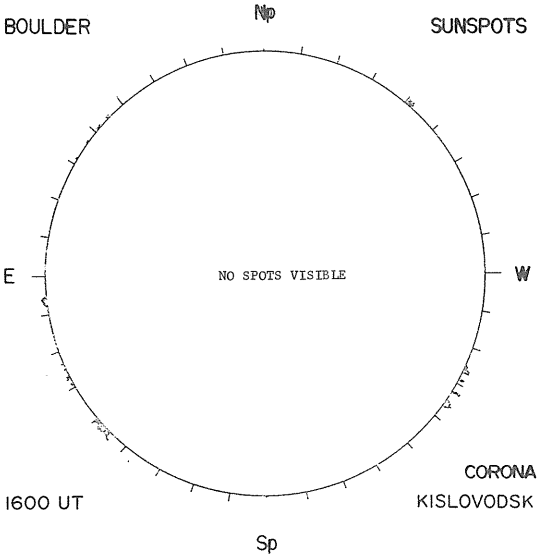


28
RAMEY AFB



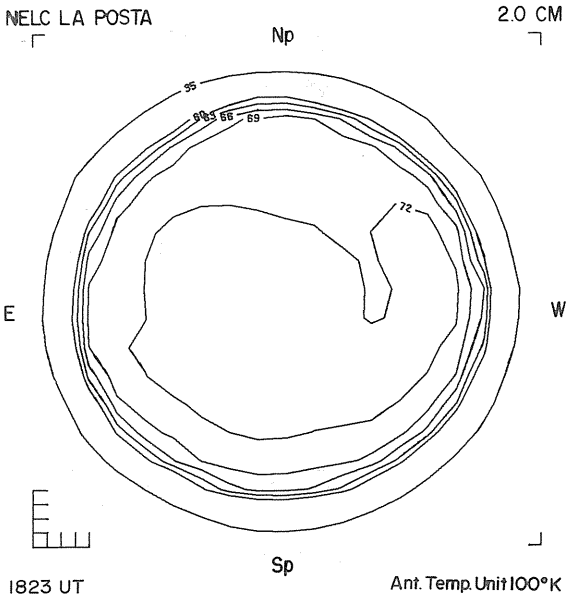
1702 UT

BOULDER



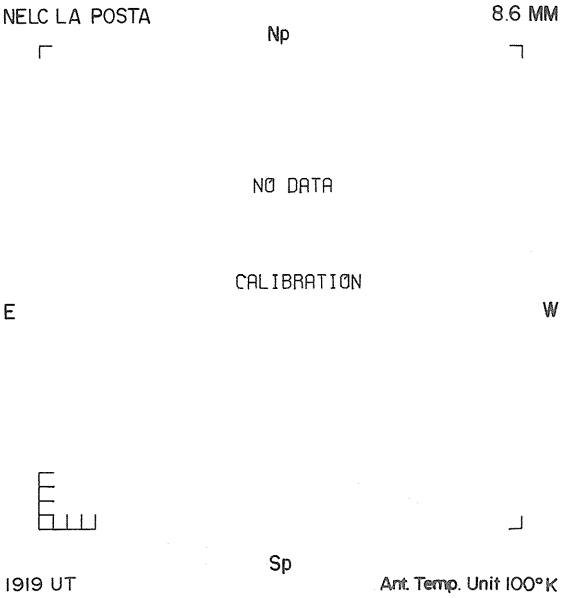
CORONA
KISLOVODSK
1600 UT

NELC LA POSTA



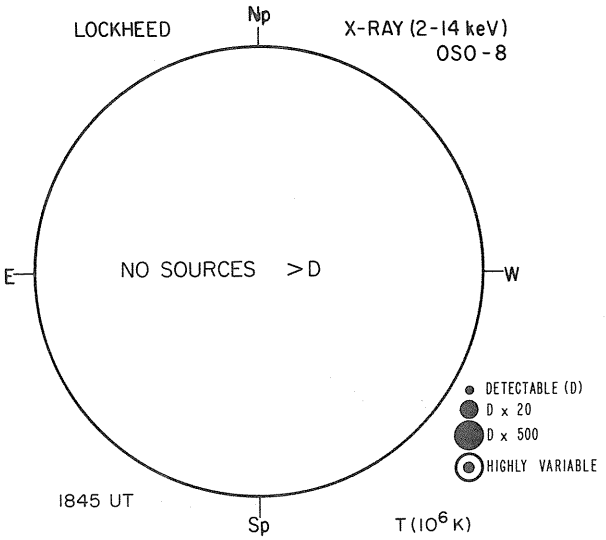
1823 UT
Ant. Temp. Unit 100°K

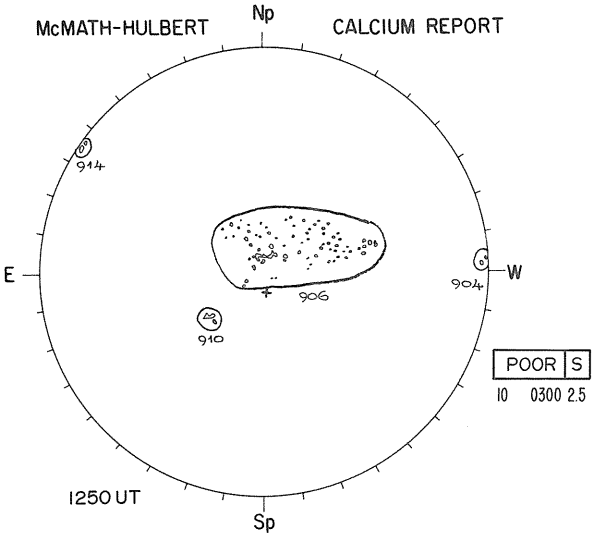
NELC LA POSTA

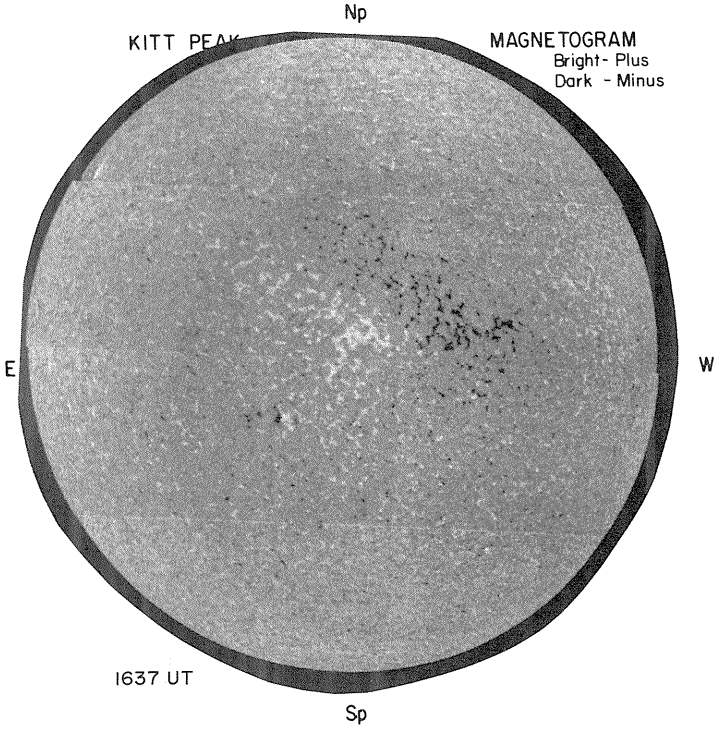


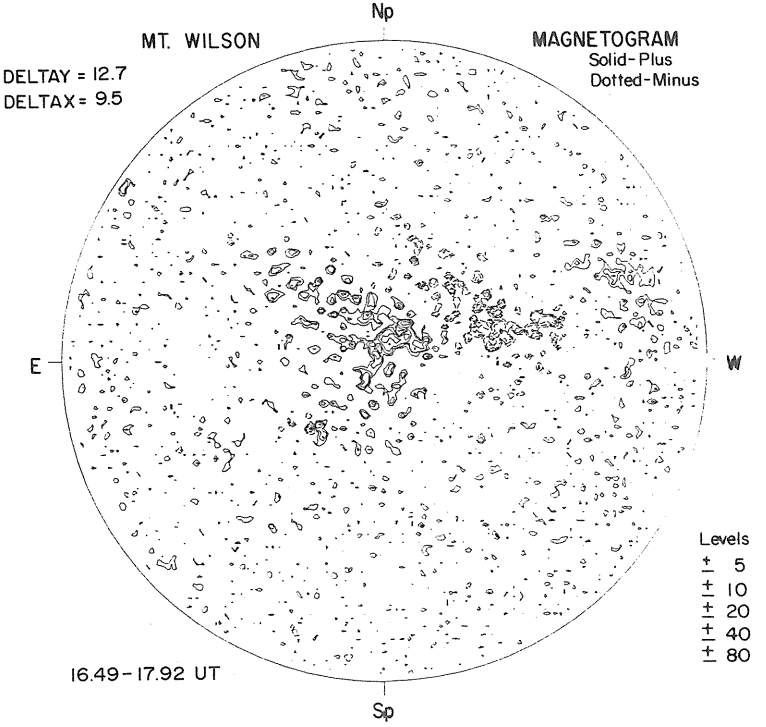
1919 UT
Ant. Temp. Unit 100°K

OCTOBER 29, 1975 (P = 25.09, B_0 = 4.70, L_0 = 272.07)

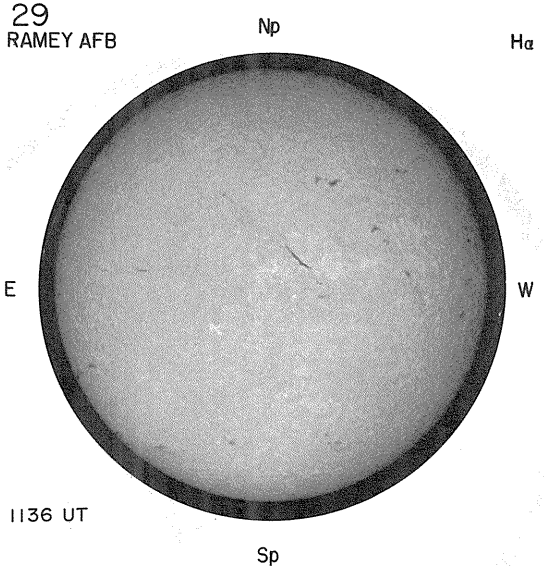






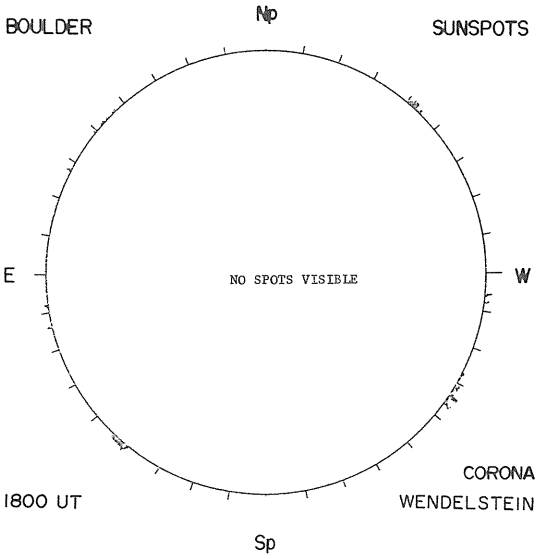


29
RAMEY AFB



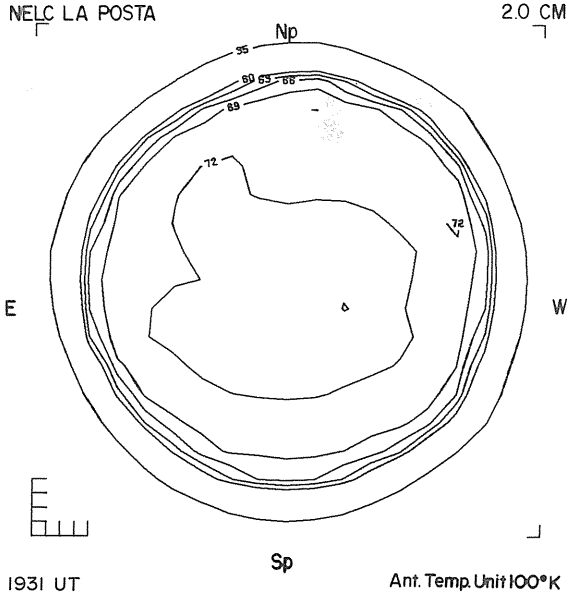
1136 UT

BOULDER



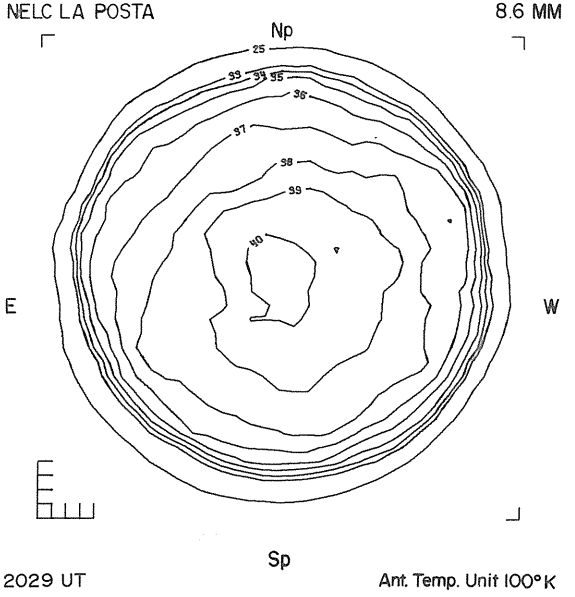
1800 UT

NELC LA POSTA 2.0 CM



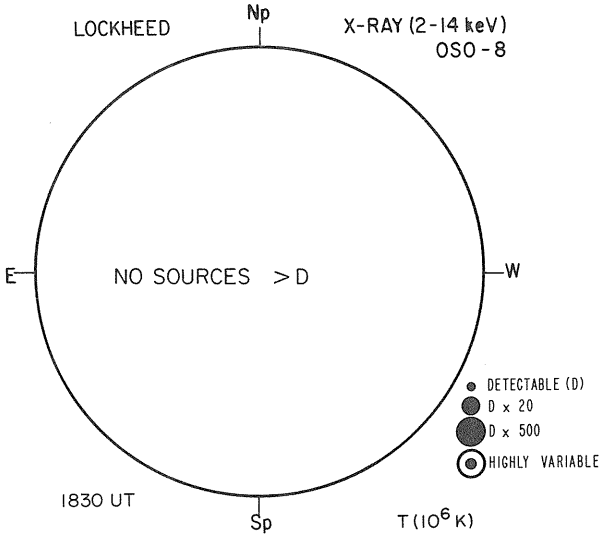
1931 UT Ant. Temp. Unit 100°K

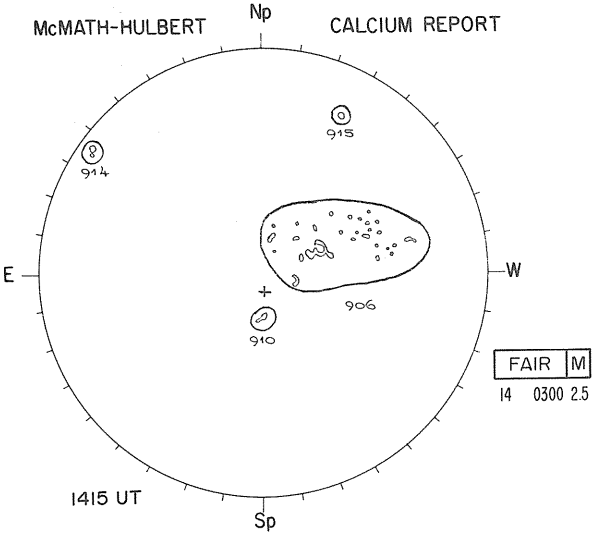
NELC LA POSTA 8.6 MM

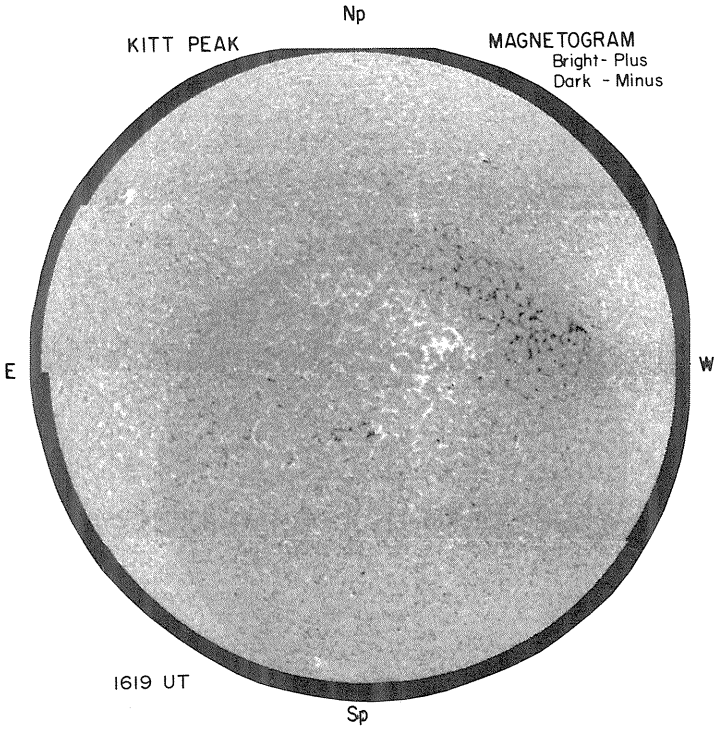


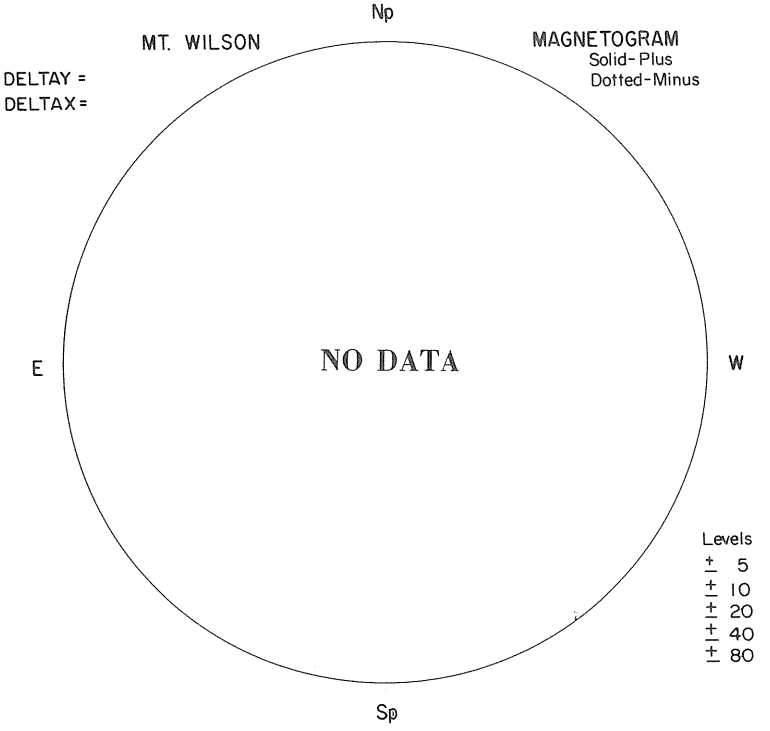
2029 UT Ant. Temp. Unit 100°K

OCTOBER 30, 1975 (P =24.95, B_o =4.60, L_o =258.89)

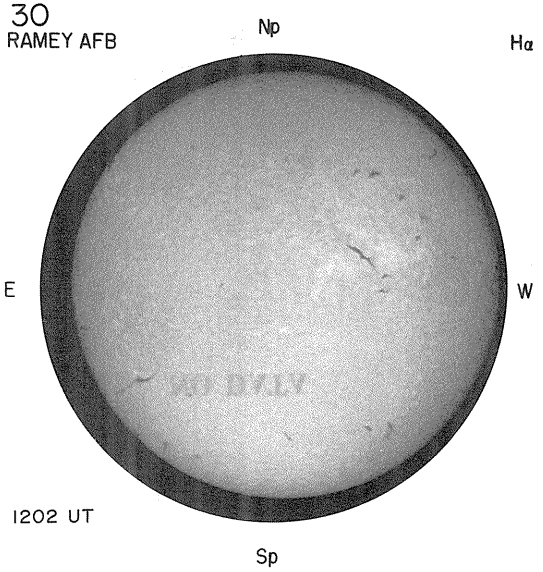


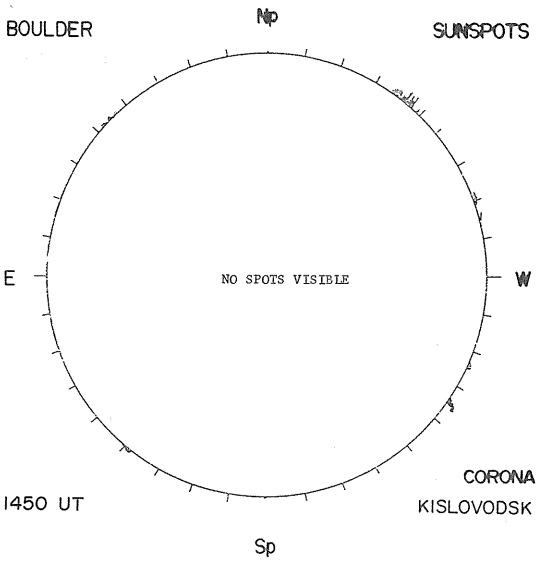


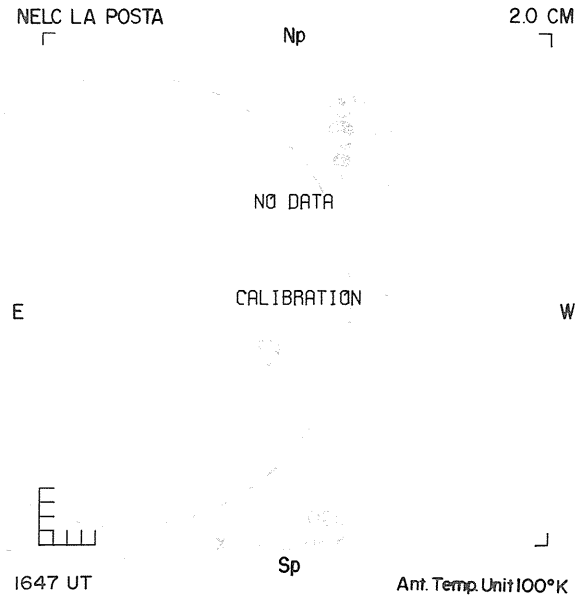


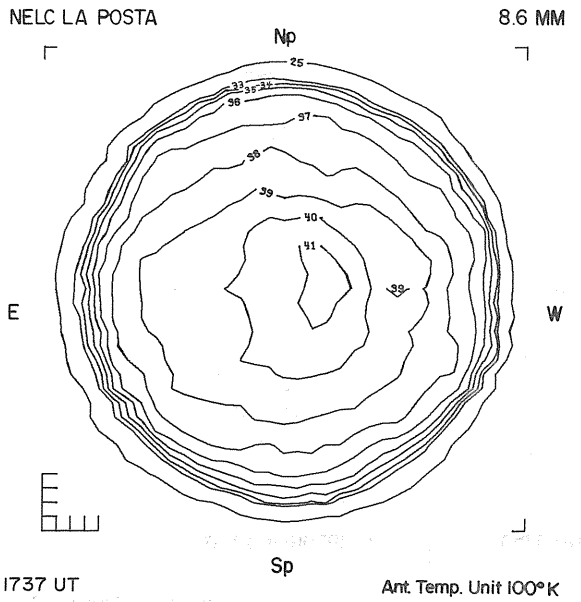


30
RAMEY AFB

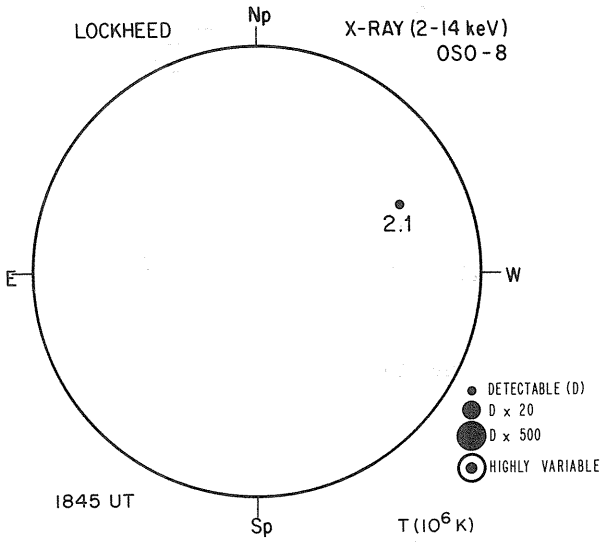

Np
Hα
E
W
1202 UT
Sp

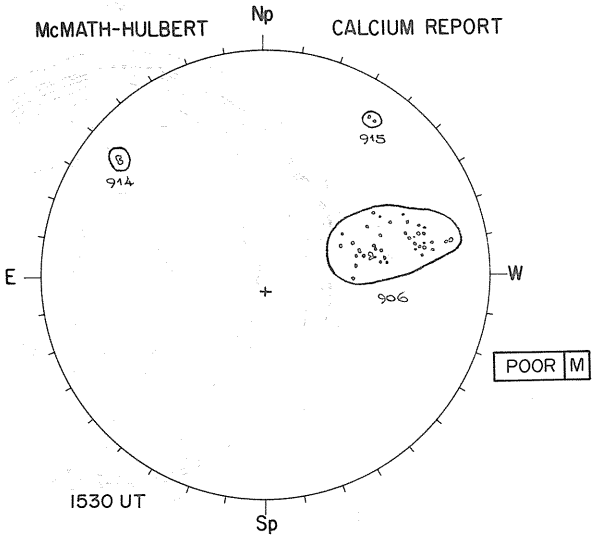

BOULDER
Np
SUNSPOTS
E
NO SPOTS VISIBLE
W
CORONA
KISLOVODSK
1450 UT
Sp

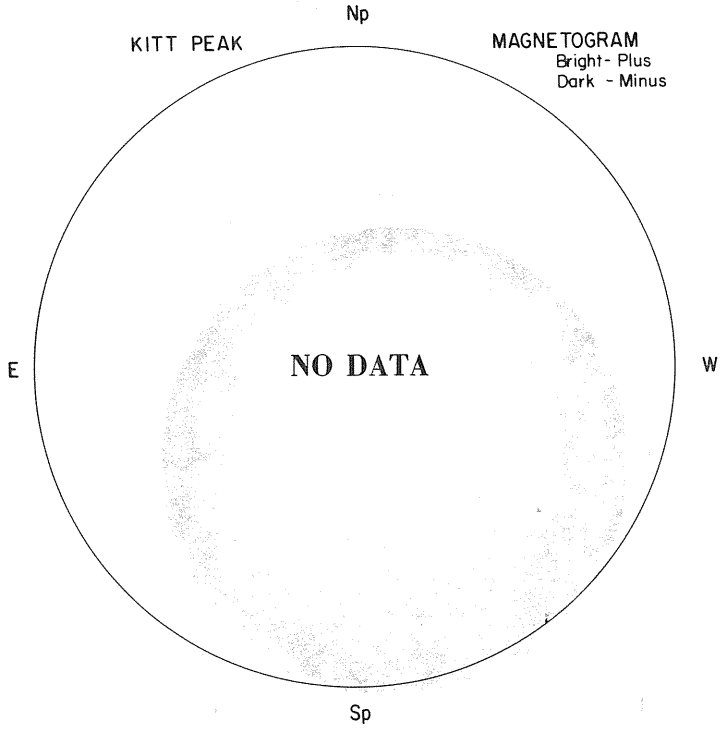

NELC LA POSTA
Np
2.0 CM
NO DATA
CALIBRATION
E
W
1647 UT
Sp
Ant. Temp. Unit 100°K

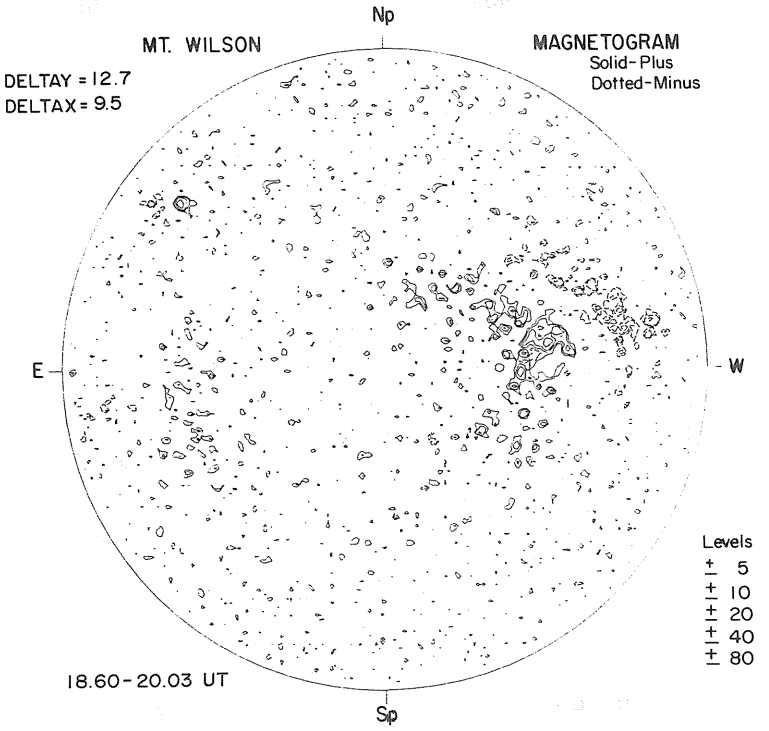

NELC LA POSTA
Np
8.6 MM
25
33
34
35
36
37
38
39
40
41
E
W
1737 UT
Sp
Ant. Temp. Unit 100°K

OCTOBER 31, 1975 (P = 24.80, B_0 = 4.50, L_0 = 245.70)

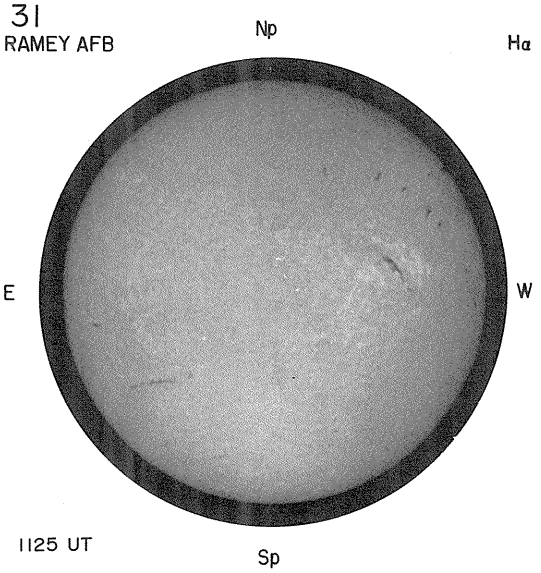






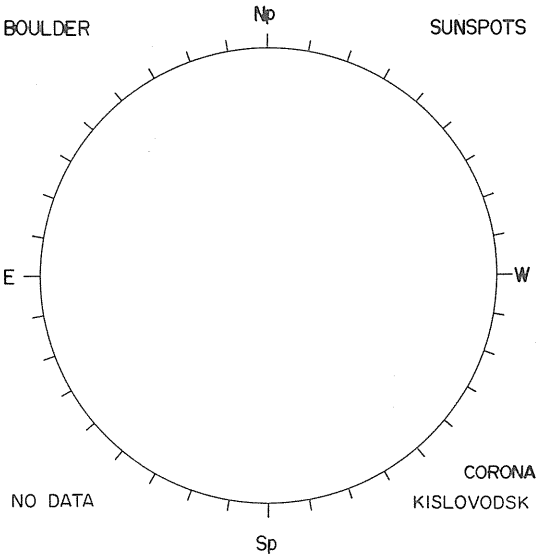


31
RAMEY AFB



1125 UT

BOULDER

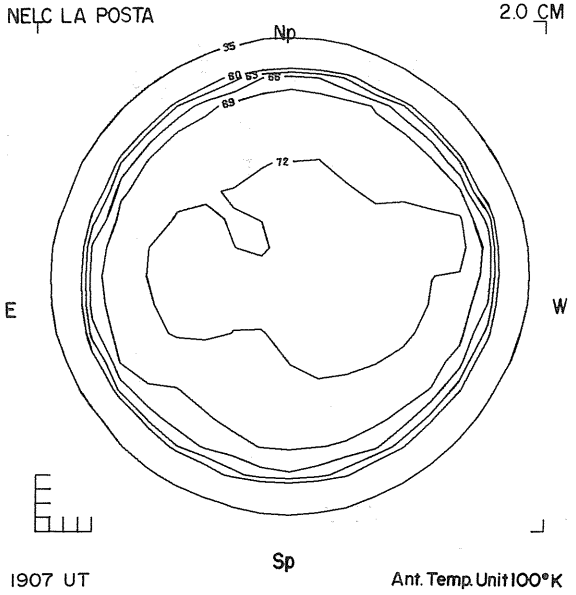


CORONA
KISLOVODSK

NO DATA

NELC LA POSTA

2.0 CM

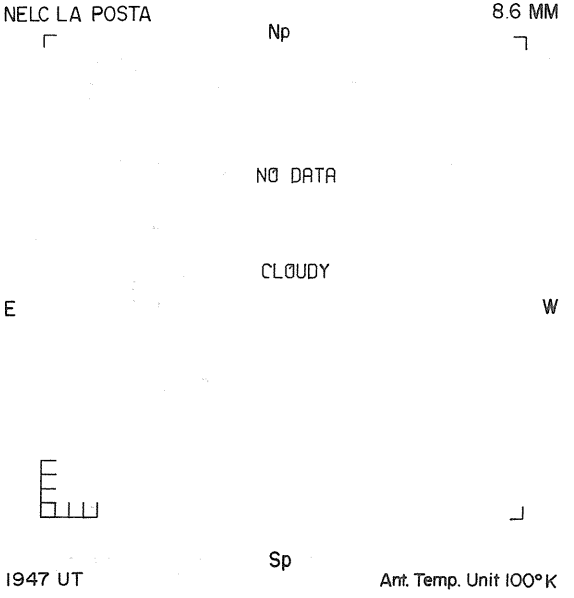


1907 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM



NO DATA

CLOUDY

1947 UT

Ant. Temp. Unit 100°K

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13873 CMP DATE 1.6

			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	9	30	13873	S45 E14	273	100	1.5									

MCMATH REGION 13878 CMP DATE 1.7

			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	10	3	13878	N71 W25	271	200	1.5									

MCMATH REGION 13867 CMP DATE 1.8 RETURN OF REGION 13826 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	9	24	13867	N10 E88	279	100	1.0									
75	9	27	13867	N10 E58	268	1900	2.0									
75	9	28	13867	N10 E40	274	2300	2.0									
75	9	29	13867	N10 E30	270	2200	2.0									
75	9	30	13867	N10 E17	270	2400	2.5									
75	10	1	13867	N10 E00	270	2200	2.5									
75	10	2	13867	N10 W10	269	2300	2.5									
75	10	3	13867	N10 W23	269	2100	2.5									
75	10	4	13867	N10 W36	270	2500	2.0									
75	10	5	13867	N12 W46	267	2400	2.0									
75	10	6	13867	N10 W60	268	2500	2.0									
75	10	7	13867	N10 W73	266	2300	2.0									
75	10	8	13867	N09 W86	265	900	1.0									

MT. WILSON REGION 19629 CMP DATE 2.7

			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	10	1						19629	S09 E14	258	(A)	1				

MCMATH REGION 13879 CMP DATE 3.3

			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	10	3	13879	S21 W04	250	100	1.5									
75	10	4	13879	S21 W17	251	100	1.0									

MCMATH REGION 13874 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
75	9	30	13874	S16 E48	239	100	1.0									

MCMATH REGION 13888 CMP DATE 5.8

			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	10	10	13888	N19 W63	217	100	1.5									

MCMATH REGION 13883 CMP DATE 6.4

			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	10	6	13883	S47 W02	210	100	1.0									

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13889 CMP DATE 6.8

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	10	10	13889	N14 W50	204	100	1.5									

MCMATH REGION 13875 CMP DATE 7.5

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	9	30	13875	N32 E87	200	800	2.5	19628	N32 E82	203	(AP)	3	R	100	1	HSX
75	10	1	13875	N33 E74	196	1300	3.5	19628	N33 E72	200	(AP)	4	B	140	1	HSX
75	10	2	13875	N33 E63	196	1300	3.5	19628	N33 E59	199	(AP)	4	B	120	1	HSX
75	10	3	13875	N33 E52	194	1300	3.5	19628	N33 E46	199	(AP)	5	B	90	1	HSX
75	10	4	13875	N33 E40	194	1200	3.0	19628	N33 E33	199	(BP)	5	B	80	1	HSX
75	10	5	13875	N33 E26	195	1300	3.0	19628	N32 E17	198	(BP	5	R	80	1	HSX
75	10	6	13875	N33 E13	195	1200	3.0	19628	N32 E08	198	(BP)	5	B	80	4	HSX
75	10	7	13875	N33 E01	192	1100	3.0									
75	10	8	13875	N33 W13	192	1300	2.5	19628	N32 W18	197	(AP)	5	B	100	1	HSX
75	10	9						19628	N33 W30	196	(BP)	5	B	100	1	HSX
75	10	10	13875	N33 W38	192	1300	2.5	19628	N33 W43	196	(BP	5	B	100	1	HSX
75	10	11	13875	N33 W51	192	1600	2.5		N53 W34				B	100	1	HSX
75	10	12	13875	N33 W63	191	1300	2.0	19628	N33 W70	196	(AP)	4	R	80	1	HSX
75	10	13	13875	N33 W75	189	1100	2.0	19628	N33 W81	194	(AP)	3	B	70	1	HSX
75	10	14	13875	N33 W87	188	700	1.0		N33 W80				B	70	1	HSX

MCMATH REGION 13881 CMP DATE 7.9

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	10	3	13881	S07 E60	186	400	1.0									
75	10	4	13881	S06 E45	189	400	1.0									
75	10	5	13881	S08 E32	189	400	1.0									
75	10	6	13881	S07 E18	190	400	1.0									
75	10	7	13881	S07 E05	188	400	1.0									
75	10	8	13881	S07 W11	190	400	1.0									
75	10	10	13881	S07 W36	190	300	1.0									
75	10	11	13881	S07 W50	191	300	1.0									
75	10	12	13881	S07 W65	193	300	1.0									

MCMATH REGION 13884 CMP DATE 8.1

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	10	7	13884	S25 E07	186	100	1.0									

MCMATH REGION 13886 CMP DATE 8.3

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	10	8	13886	N53 W04	183	100	1.0									

MCMATH REGION 13880 CMP DATE 8.5

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	10	3	13880	N27 E66	180	100	1.0									
75	10	4	13880	N27 E53	181	200	1.0									

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13882 CMP DATE 9.8 RETURN OF REGION 13832 ROTATION 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	10	3	13882	S14 E90	156	300	1.0									
75	10	4	13882	S12 E75	159	400	1.0									
75	10	5	13882	S13 E60	161	500	1.0									
75	10	6	13882	S13 E45	163	400	1.0									
75	10	7	13882	S13 E30	163	400	1.0									
75	10	8	13882	S12 E17	162	500	1.0									
75	10	10	13882	S12 W10	164	300	1.0									
75	10	11	13882	S12 W25	166	400	1.0									
75	10	12	13882	S12 W40	168	500	1.5									
75	10	13	13882	S12 W54	168	400	1.0									

MCMATH REGION 13894 CMP DATE 10.8

				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	10	12	13894	N10 W23	151	200	1.0									

MCMATH REGION 13887 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	10	8	13887	S12 E51	128	300	3.0	19630	S12 E50	129	(BF)	2	8	10	1	AXX
75	10	10	13887	S12 E26	128	400	2.5									
75	10	11	13887	S12 E13	128	500	2.5									
75	10	12	13887	S12 E00	128	400	1.5									
75	10	13	13887	S11 W14	128	300	1.5									
75	10	14	13887	S11 W27	128	300	1.0									
75	10	15	13887	S11 W40	128	200	1.0									
75	10	16	13887	S12 W53	128	200	1.0									

MCMATH REGION 13895 CMP DATE 13.1

				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	10	12	13895	N29 E07	121	100	1.5									

MCMATH REGION 13901 CMP DATE 13.5

				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	10	16	13901	N01 W41	116	100	2.0									

MCMATH REGION 13897 CMP DATE 14.9

				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	10	13	13897	N30 E18	96	100	1.0									

MCMATH REGION 13891 CMP DATE 15.1 RETURN OF REGION 13846 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	10	10	13891	N10 E60	94	200	1.0									
75	10	11	13891	N10 E46	95	300	1.0									
75	10	12	13891	N10 E32	96	300	1.0									
75	10	13	13891	N10 E21	93	300	1.0									

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13890 CMP DATE 15.2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	10	13890	N04 E60	94	400	1.0
75	10	11	13890	N05 E46	95	300	1.0
75	10	12	13890	N05 E33	95	300	2.5
75	10	13	13890	N05 E22	92	800	3.5
75	10	14	13890	N05 E08	93	1400	3.5
75	10	15	13890	N05 W06	94	2000	3.5
75	10	16	13890	N05 W19	94	1800	3.0
75	10	17					
75	10	18					
75	10	19					
75	10	20	13890	N06 W76	96	1200	3.0
75	10	21	13890	N05 W87	96	700	2.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19631	N05 E35	91	(BF)	2				
19631	N05 E19	94	(BP)	5	B	90	22	DAO
19631	N05 E05	93	(BP)	4	B	180	16	DAO
19631	N05 W06	93	(BP)	5	B	220	33	CSO
19631	N05 W21	95	(BP)	5	B	150	7	CSO
19631	N05 W35	95	(BP)	5	B	130	3	CSO
19631	N06 W45	93	(BP)	4	B	130	3	CSO
19631	N06 W59	93	(BP)	3	B	120	5	CSO
19631	N06 W76	97	(AP)	2	B	120	1	HSX
	N05 W83				M	120	1	HSX

MCMATH REGION 13899 CMP DATE 16.0

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	14	13899	N28 E18	83	100	2.0
75	10	15	13899	N28 E05	83	200	1.5
75	10	16	13899	N29 W08	83	300	1.5

SUNSPOT DATA

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

MCMATH REGION 13900 CMP DATE 17.0

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	14	13900	N12 E32	69	100	1.5

SUNSPOT DATA

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

MCMATH REGION 13892 CMP DATE 17.8

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	11	13892	S09 E84	57	1300	2.0
75	10	12	13892	S12 E68	60	1900	2.0
75	10	13	13892	S12 E55	59	1800	2.5
75	10	14	13892	S13 E43	58	1700	3.0
75	10	15	13892	S13 E28	60	1600	3.0
75	10	16	13892	S13 E15	60	1600	3.0
75	10	17					
75	10	20	13892	S13 W39	59	1500	3.0
75	10	21	13892	S13 W50	59	1200	2.5
75	10	22	13892	S13 W65	59	1400	2.0
75	10	23	13892	S13 W77	60	1200	1.5
75	10	24	13892	S14 W90	60	300	1.0

RETURN OF REGION 13849 ROTATION 3

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19632	S14 E17	57	(AF)	1				
19632	S15 E04	56	(AF)	2				

MCMATH REGION 13902 CMP DATE 18.3

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	16	13902	N49 E23	52	100	1.5

SUNSPOT DATA

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

MCMATH REGION 13903 CMP DATE 21.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	16	13903	N64 E65	10	100	1.5

SUNSPOT DATA

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

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

MCMATH REGION 13904 CMP DATE 23.2 RETURN OF REGION 13862* ROTATION 6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	17					
75	10	18					
75	10	20	13904	N02 E33	348	800	2.5
75	10	21	13904	N02 E22	348	700	2.0
75	10	22	13904	N03 E08	347	700	2.0
75	10	23	13904	N03 W05	348	600	2.0
75	10	24	13904	N03 W18	348	400	2.0
75	10	25	13904	N03 W32	348	400	2.0
75	10	26	13904	N03 W45	349	400	2.0
75	10	27	13904	N04 W57	347	500	2.0
75	10	28	13904	N04 W66	343	600	1.5
75	10	29	13904	N04 W78	342	200	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19633	N03 E70	351	(AP)	3	B	10	1	AXX
19633	N04 E60	349	(BP)	2	B	10	1	AXX

MCMATH REGION 13905 CMP DATE 23.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	19					
75	10	20	13905	S18 E36	345	400	3.0
75	10	21	13905	S17 E26	344	300	2.5
75	10	22	13905	S16 E12	343	200	2.0
75	10	23	13905	S16 E00	343	200	1.5
75	10	24	13905	S16 W14	344	200	1.0
75	10	25	13905	S16 W27	343	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19634	S16 E49	346	(AP)	2	B	10	1	AXX
19635	S15 E26	356	AP					

MCMATH REGION 13911 CMP DATE 26.2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	27	13911	S05 W18	308	100	2.0
75	10	28	13911	S04 W32	309	100	1.0

SUNSPOT DATA

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

MCMATH REGION 13909 CMP DATE 26.6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	24	13909	N36 E26	304	100	1.0
75	10	25	13909	N36 E14	302	100	1.5
75	10	26	13909	N36 E01	303	100	1.0

SUNSPOT DATA

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

MCMATH REGION 13915 CMP DATE 28.2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	30	13915	N48 W32	283	200	1.5
75	10	31	13915	N48 W44	281	100	1.0

SUNSPOT DATA

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

MCMATH REGION 13906 CMP DATE 28.9 RETURN OF REGION 13867 ROTATION 4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	22	13906	N10 E75	280	700	1.0
75	10	23	13906	N10 E68	275	1000	1.5
75	10	24	13906	N10 E54	276	1300	2.0
75	10	25	13906	N10 E40	276	1400	2.0
75	10	26	13906	N10 E28	276	1600	2.0
75	10	27	13906	N10 E15	275	2100	2.0
75	10	28	13906	N10 E04	273	2000	2.5

SUNSPOT DATA

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

(Cont'd)

*An asterisk beside the "Return of Region" number indicates that the new region is only part of the area of the old region.

REGIONS OF SOLAR ACTIVITY

OCTOBER 1975

(Cont'd)

75	10	29	13906	N10 W10	274	1600	2.0	
75	10	30	13906	N10 W20	271	1700	2.0	
75	10	31	13906	N10 W33	270	1600	1.5	
75	11	2	13906	N10 W60		1300	2.0	
75	11	4	13906	N08 W85		500	1.0	

MCMATH REGION 13917 CMP DATE 30.3

			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	11	2	13917	S03 W45		300	1.5								

MCMATH REGION 13910 CMP DATE 30.7

			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	10	26	13910	S07 E56	248	100	2.5								
75	10	27	13910	S07 E42	248	300	2.5								
75	10	28	13910	S07 E29	248	300	2.5								
75	10	29	13910	S07 E15	249	300	2.5								
75	10	30	13910	S07 E01	250	200	2.0								

MCMATH REGION 13912 CMP DATE 31.5

			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	10	27	13912	N25 E51	239	200	1.5								
75	10	28	13912	N26 E39	238	200	1.5								

MCMATH REGION 13918 CMP DATE 31.5

			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	11	2	13918	N38 W28		200	1.5								

No calcium spectroheliograms were obtained at the McMath-Hulbert Observatory on October 9, 17, 18 and 19, 1975.
No sunspot observations were made at Mt. Wilson Observatory on October 7 and 11, 1975.

DAILY CALCIUM PLAGE INDEX

OCTOBER 1975

YR	MO	DAY	INDEX	YR	MO	DAY	INDEX	YR	MO	DAY	INDEX
75	10	1	8.0	75	10	11	4.4	75	10	21	3.8
75	10	2	8.0	75	10	12	4.7	75	10	22	3.0
75	10	3	7.8	75	10	13	6.4	75	10	23	2.3
75	10	4	6.6	75	10	14	9.0	75	10	24	2.5
75	10	5	6.7	75	10	15	11.4	75	10	25	3.0
75	10	6	6.0	75	10	16	10.4	75	10	26	3.5
75	10	7	4.8	75	10	17	*	75	10	27	5.4
75	10	8	4.1	75	10	18	*	75	10	28	6.3
75	10	9	*	75	10	19	*	75	10	29	3.9
75	10	10	4.0	75	10	20	6.7	75	10	30	3.9
								75	10	31	2.3

* NO OBSERVATIONS

SUDDEN IONOSPHERIC DISTURBANCES

OCTOBER 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
14	0808	0838	0810	1-	1				1				0808	13890

PERIODS OF NO OBSERVATIONS:

DATE	TIME (UT) and STATION
01-07	0000-2400 A4
03-18	0000-2400 TA
03	1820-2000 UM (10 kHz)
07	0000-2400 TN, 1805-1850 TM
08	0858-0935 TM
09	0000-2400 A28, 1358-1416 TM
10	0000-2400 A28
11	1649-1840 TM, 2320-2400 TM
12	0000-0108 TM
16	2208-2400 TM, 2230-2400 UM (13 kHz)
17	0000-0434 TM, 0000-2400 A4, 1730-2400 TM, 2213-2400 UM (13 kHz)
18	0000-0146 TM
19-20	0000-2400 A4
21	1254-1448 TM, 1744-1813 TM, 2300-2400 MC
22	0000-1215 MC
24	2020-2150 TM
25-31	0000-2400 A28
26-31	0000-2400 A4
27	1723-2400 UM (13 kHz)
28	0635-1235 MC
29	2141-2220 TM
30	0000-2400 A29
31	0000-2400 A29, 2124-2204 TM

STATIONS REPORTING FOR OCTOBER 1975

AAVSO (A1, A4, A19, A21, A28, A29, A31, A32, A33, A34, A35, A37, A40) (SES)
(A1, A26, A31) (SEA) (A31) (SWF)
AQUIPA (AQ) (SPA)
DARMSTADT (DA) (SWF)
DEBRE SEIT(DE) (SPA)
HERMANUS (HS) (SEA)
HERSTMONCEUX (HC) (SEA)
HIRAISO (HI) (SWF)
HOBART (TA) (SEA)
HUANCAYO (HU) (SWF)
INUBO (IN) (SPA)
KULA (KL) (SPA)
MCMATH (MC) (SWF, SCNA)
PANSKA VES (PU) (SWF, SEA, SES)
POITIERS (PO) (SEA)
PRESTON (LO) (SEA)
SAO PAULO (UM) (SES, SPA)
SOFIA (SF) (SES)
ST CLOUD (SC) (SES)
TABLE MOUNTAIN (TM) (SPA, LF-SPA)
TORINO (TN) (SPA)
UPICE (UI) (SEA)

SID's BY McMATH REGION

OCTOBER 1975

DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
REGION 90														1																	
X-RAY																															
UNKNOWN																															
NO FP																															

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS 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	0942	MANI										
	0000	0722	CULG										
	0000	0100	BOUL										
	0604	1655	DURN										
	1044	2222	SGMR										
	1130	1615	WEIS										
	1300	2400	BOUL										
	1316	2245	HARV										
	2022	2400	CULG										
	2145	2400	MANI										
02	0000	0941	MANI										
	0000	0722	CULG										
	0000	0100	BOUL										
	0606	1650	DURN										
	0611	1520	WEIS										
	1045	2220	SGMR										
	1114	1240	OWIN										
	1300	2400	BOUL										
	1317	2245	HARV										
	1530	1615	WEIS										
	2022	2400	CULG										
	2145	2400	MANI										
03	0000	0940	MANI										
	0000	0721	CULG										
	0000	0100	BOUL										
	0604	1648	DURN										
	0612	1617	WEIS										
	1046	2218	SGMR										
	1300	2040	BOUL										
	1317	2245	HARV										
	2023	2400	CULG										
	2145	2400	MANI										
04	0000	0939	MANI										
	0000	0721	CULG										
	0603	1645	DURN										
	0614	1502	WEIS										
	1048	2216	SGMR										
	1300	2400	BOUL										
	1316	2245	HARV										
	2145	2400	MANI										
	2021	2400	CULG				2210.5						IIIB,W
		-	CULG				2243						IIIB,W
05	0000	0100	BOUL										
	0000	0156	MANI										
	0202	0749	MANI										
	0000	0721	CULG				0452	0721					IIIN,W
			CULG	0516			0516						IIIB,W
	0805	0939	MANI										
	0603	1643	DURN	0850.2	0850.3	3	0850.2	0850.3	2				IIIG
			DURN	0852.1	0852.7	2							IIIG
			DURN	1034.9	1036.2	2							IIIG
			DURN	1036.5	1036.9	2	1036.7	1036.9	2				IIIG
			DURN	1039.8	1040.3	2	1039.8	1040.3	2				IIIGG
	1048	2215	SGMR										
			DURN	1458.2	1458.3	1	1458.2	1458.3					IIIG
			DURN	1521.2	1523.4	3	1521.2	1523.4	3				IIIGG
	1300	2400	BOUL				1521.9	1522.5	1	1521.9	1522.5	1	III
	1317	2245	HARV				1521	1523	2				IIIGG
	2021	2400	CULG				2021	2400					IIIN,W
			CULG				2023	2024	1	2023	2024	1	IIIG
			CULG	2027	2027.5	1	2027	2027.5	2	2027	2027.5	2	IIIG
			HARV				2027		2	2027		2	IIIB
	2145	2400	MANI										
06	0000	0937	MANI										
	0000	0100	BOUL										

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS 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
06	0000	0716	CULG				0000	0716					IIIN,W
	0603	1642	DURN										
	0810	1609	WEIS										
	0821	1200	DWIN	0821	1200	1	0821	1200	1				IN
			DWIN				0833.7	0833.8	1				IIIG
			DWIN				0841.3		1				IIIB
			DWIN				0848.1	0848.4	1				IIIG
			DWIN				0901.2		1				IIIB
			DWIN				0901.6	0901.7	1				IIIG
			DWIN				0953.5	0955.2	1				IIIG
	1049	2213	SGMR										
			DWIN	1114.1	1114.5	1	1114.1	1114.5	1				IIIG
	1300	2400	BOUL				1745.9	1746.2	1	1745.9	1746.2	1	III
	1316	2245	HARV				1746		3	1746		3	IIIG
	2021	2400	CULG	2100	2400								IS,W
	2146	2400	MANI										
07	0000	0935	MANI										
	0000	0720	CULG				0000	0720					IIIN,W
			CULG	0000	0210								IS,W
	0000	0030	BOUL										
			CULG				0409	0410	1	0409	0410	1	IIIG
			CULG	0602.5	0603	1	0602.5	0603	1	0602.5	0603	1	IIIG
			CULG	0626	0626.5	1	0626	0626.5	1				IIIG
	0617	1610	WEIS				0630.4	0630.9	1				IIIG
	0614	1641	DURN	0630.4	0630.7	1	0630.4	0630.7	1				IIIG
			CULG	0630	0631	1	0630	0631	2	0630	0631	1	IIIG
	1051	2211	SGMR										
	0854	1326	DWIN	1158.6		1	1158.6		1				IIIB
	1317	2245	HARV										
	1300	2400	BOUL				1439.2	1441.5	1	1439.2	1441.5	1	IIIG
	2147	2400	MANI										
	2020	2400	CULG				2155	2159					IIIG,W
			CULG				2319						IIIB,W
08	0000	0720	CULG										
	0000	0030	BOUL										
	0000	0934	MANI										
	0603	1639	DURN										
	0619	0749	WEIS										
	0800	1600	WEIS										
	0953	1332	DWIN	0953	1332	1	0953	1332	1				IN
			DWIN	1103.0	1103.8	1							IIIG
			DWIN	1106.1	1106.5	1							IIIG
	1317	2245	HARV				1656	1700	3	1656	1700	3	IIIGG,V,U
	1300	2400	BOUL				1657.8	1700.5	2	1657.8	1700.5	2	IIIG
	1052	2209	SGMR							1658.7	1700.1	2	V
			SGMR							1845.8	1846.2	1	III
			BOUL				1845.8	1846.4	1	1845.8	1846.4	1	IIIG
			HARV				1846	1847	2	1846	1847	2	IIIG
	2020	2100	CULG										
	2146	24//	MANI										
	2200	2400	CULG										
			CULG	2337	2341	1							IIIG
			CULG				2342.5	2345	1				II
			CULG	2352	2358	1							I
09	0000	0720	CULG										
	0000	0030	BOUL										
	0000	0934	MANI										
	0624	1603	WEIS										
	0603	1636	DURN	0946	1636 D	3	0946	1636 D	3				I,DC,N
	1053	2208	SGMR										
	1300	2400	BOUL										
	1317	2245	HARV										
	2146	2400	MANI										
	2020	2400	CULG				2344.5		1	2345		1	IIIB
10	0000	0030	BOUL										
	0000	0932	MANI										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS 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
10	0000	0719	CULG	0259	0300	1							IIIG
			CULG	0407.5	0408.5	1							IIIG
			CULG				0523.5		1				IIIB
			CULG	0535.5	0537	1	0535.5	0536	1				IIIG
	0625	0828	WEIS										
	0603	1633	DURN	0902.7	0903.4	2	0902.7	0903.4	1				IIIG
	0837	1557	WEIS				0902.8	0903.4	1				IIIG
	1054	2206	SGMR										
	1300	2400	BOUL										
	1332	2245	HARV										
	2019	2400	CULG				2034						IIIB,W
	2146	2400	MANI										
11	0000	0932	MANI										
	0000	0719	CULG										
	0000	0030	BOUL										
	0603	1633	DURN										
	0628	1559	WEIS										
	1055	2204	SGMR										
	1300	2400	BOUL										
	1331	2245	HARV										
	2019	2400	CULG										
	2147	2400	MANI										
12	0000	0931	MANI										
	0000	0030	BOUL										
	0000	0719	CULG	0221	0222	1	0221.5	0222	1				IIIG
	0605	0739	DURN	0606.9	0607.0	2							I
	0630	0922	WEIS										
	0752	1630	DURN										
	1056	2203	SGMR										
	1300	2400	BOUL										
	1332	2245	HARV										
	2019	2400	CULG										
	2147	2400	MANI										
13	0000	0931	MANI										
	0000	0719	CULG										
	0000	0030	BOUL										
	0640	1259	WEIS										
	1057	2201	SGMR										
	0608	1617	DURN	1202.4	1202.5	3							III
	1300	2400	BOUL										
	1331	2245	HARV										
	1450	1558	WEIS										
	2019	2400	CULG										
	2148	2400	MANI										
14	0000	0928	MANI										
	0000	0718	CULG										
	0000	0030	BOUL										
	0608	1617	DURN										
	0638	0950	WEIS										
	1059	2159	SGMR							1327.9	1328.3	1	III
	1510	1547	WEIS										
	1300	2400	BOUL							1629.4	1630.0	1	III
	1334	2245	HARV				1629	1630	2	1629	1630	2	IIIB
	2018	2400	CULG				2120.5		1				IIIB
			CULG				2138	2139					IIIG,H
	2147	2400	MANI										
15	0000	0030	BOUL										
	0000	0357	CULG	0212	0245		0212	0357					IIIN,H
			CULG	0305	0357	1							IS
	0000	0928	MANI							0402.0	0402.4	3	III
	0520	0718	CULG				0520	0718					IIIN,H
			CULG	0520	0718	1							IS
	0609	1620	DURN	0609 E	1620 D	3	0609 E	1620 D	2				I,C,N,DC
			DURN	0842.1	0842.3	3	0842.1	0842.3	3				IIIG,U,RS
			DURN	0843.8	0843.9	1							IIIRS

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS 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
15	0935	1550	WEIS				0935	1520	1				IN
			WEIS				1027.9	1028.8	1				IIIG
			WEIS				1050.1	1050.5	1				IIIG
	1100	2158	SGMR										
			WEIS				1217.8	1218.6	1				IIIG
	2018	2400	CULG	2018	2400	1							IS
			CULG				2018	2400					IIIN,W
			CULG				2129.5	2130	1	2129.5	2130	1	IIIG
	1300	2400	BOUL				2129.5	2129.9	1	2129.5	2129.9	1	III
	1330	2245	HARV				2129	2130	2	2129	2130	2	IIIB
	2147	2400	MANI										
			BOUL				2242.5	2243.0	1	2242.5	2243.0	1	III
			CULG				2242	2243	2	2242	2243	1	IIIG
			CULG	2244		1	2244		1				IIIB
16	0000	0718	CULG	0000	0718								IS,W
	0000	0030	BOUL										
	0000	0928	MANI										
			CULG				0105						IIIB,W
			CULG				0539						IIIB,W
	0609	1620	DURN	0609 E	1103	3	0609 E	1103	2				I,C,N,DC
	0708	1540	WEIS										
	1101	2156	SGMR										
	0635	0704	WEIS				1102.7	1102.8	1				IIIB
	1332	2245	HARV										
	1300	2400	BOUL							1600.2	1600.5	1	III
	2147	2400	MANI										
	2018	2400	CULG	2329	2400								IS,W
			CULG				2358		1				IIIB
17	0000	0030	BOUL										
	0000	0927	MANI							0116.4	0116.6	2	III
	0000	0717	CULG	0116	0116.5	1	0116	0117	2	0116	0117	2	IIIG,U,V
			CULG				0219.5		1				IIIB
			CULG	0244	0247	1	0244	0247	2				IIIG,U
			CULG	0315	0430								IS,W
			CULG	0453.5	0454	1	0453.5	0454	1				IIIG
			CULG				0554.5						IIIB,W
	0610	0629	DURN										
			CULG	0646.5	0652.5	1	0646.5	0652.5	1				IIIGG,U
	0637	0947	WEIS				0648.2	0649.6	2				IIIG
	0649	1620	DURN	0649.4	0649.5	2							IIIG
			DURN	0649.8	0650.2	2							IIIG
			DURN	0649	1620 D	2	1051	1620 D	2				I,C,N,DC
			DURN	0651.2	0651.7	1							IIIG
	0708	1540	WEIS				0833.8	0835.0	2				IIIG
			WEIS				1051.3	1052.8	3				IIIGG
			WEIS				1201.4	1201.8	1				IIIB
			WEIS				1203.4	1204.1	3				IIIG
			DURN	1203.9	1204.1	3	1203.9	1204.1	3				IIIG,RS
			WEIS				1204.0	1204.3	3				VB
	1102	2155	SGMR							1204.2	1205.2	2	V
	1300	2400	BOUL										
	1331	2245	HARV										
	2147	2400	MANI										
	2017	2400	CULG				2259.5						IIIB,W
18	0000	0030	BOUL										
	0000	0925	MANI										
	0000	0717	CULG	0100	0717								IS,W
	0611	1614	DURN	0611 E	1614	3	0611 E	1614	2				I,C,N,DC
	0642	1537	WEIS				0712	0730	1				IS
			WEIS				0839.4	0839.5	2				IIIB
	1103	2153	SGMR										
	1300	2400	BOUL										
	1331	2245	HARV										
	2147	2400	MANI										
	2017	2400	CULG	2300	2400								IS,W
19	0000	0717	CULG										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS 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
19	0000	0030	BOUL										
	0000	0925	MANI										
	0612	1614	DURN	0612 E	1614 O	2							I,C,N,DC
	0646	1233	WEIS										
	1105	2151	SGMR										
	1331	2245	HARV										
	1300	2400	BOUL				2144.1	2145.0	2	2144.1	2145.0	2	IIIG
	2017	2400	CULG	2144	2145	1	2144	2146	1	2144	2146	1	IIIG
	2148	2400	MANI										
			CULG				2157		1				IIIB
			CULG	2212	2213	1							IIIG
			CULG				2312		1				IIIB,U
			CULG	2340.5	2341.5	1							IIIG
20	0000	0030	BOUL										
	0000	0925	MANI										
	0000	0717	CULG	0111	0112	1							IIIG
			CULG				0144	0145	1				IIIG
			CULG	0250	0717								IS,W
			CULG	0409	0411.5	1	0410.5	0411.5	1				IIIG
	0613	1610	DURN	0613 E	1610 O	3	0613 E	1610 D	1				I,C,N,DC
	0828	1446	DWIN	0828	1446	1	0828	1446	1				IN
			DURN	0853.3	0853.4	3	0853.3	0853.4	2				III
			DURN	0853.5	0853.6	2	0853.5	0853.6	1				III
			DWIN	0858.5	0900.0	2	0858.5	0900.0	2				IIIG
			DURN	0859.2	0859.4	2							IIIG
			DWIN	0936.3	0937.5	2	0936.7	0937.5	2				IIIG
	0649	1529	WEIS				0937.4	0937.6	1				IIIG
			DWIN	1105.0	1107.0	2							IIIG
	1106	2150	SGMR										
			DWIN				1226.1		1				IIIB
			DWIN	1300.5	1302.2	1	1300.5	1302.2	1				IIIG
	1300	2400	BOUL										
	1330	2245	HARV										
	2017	2400	CULG	2115.5	2116.5	1	2115.5	2116.5	1				IIIG
			CULG	2123	2125	1							IIIG
	2148	2400	MANI										
			CULG	2325	2325.5								IIIG,W
21	0000	0712	CULG	0000	0712								IS,W
	0000	0030	BOUL										
	0000	0721	MANI										
			CULG				0604		1				IIIB
	0614	1610	DURN	0614 E	1610	1							I,N
	0649	1415	WEIS										
	0812	0925	MANI										
	1300	2400	BOUL										
	1330	2245	HARV										
	2017	2400	CULG										
	1107	2148	SGMR							2112.9	2121.2	2	IV
	2148	2400	MANI										
22	0000	0923	MANI										
	0000	0717	CULG										
	0000	0030	BOUL										
	0615	0652	DURN										
	0705	1610	DURN										
	0905	1520	WEIS										
	1108	2147	SGMR										
	1300	2400	BOUL										
	1330	2245	HARV										
	2017	2400	CULG										
	2148	2400	MANI										
23	0000	0923	MANI										
	0000	0716	CULG										
	0617	1610	DURN										
	0655	1525	WEIS										
	1109	2145	SGMR										
	1300	2400	BOUL										

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION START UT	TIMES OF OBSERVATION END UT	STATION	EVENTS 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
23	1331	2245	HARV										
	2016	2400	CULG										
	2148	2400	MANI										
24	0000	0922	MANI										
	0000	0716	CULG										
	0000	0030	BOUL										
	0618	1605	DURN										
	1111	2144	SGMR										
	1330	2400	BOUL										
	1330	2245	HARV										
	2016	2400	CULG										
	2149	2400	MANI										
25	0000	0922	MANI										
	0000	0716	CULG										
	0000	0030	BOUL										
	0620	1605	DURN										
	1112	2142	SGMR										
	1330	2400	BOUL										
	1330	2245	HARV										
	2016	2400	CULG										
	2149	2400	MANI										
26	0000	0922	MANI										
	0000	0716	CULG										
	0000	0030	BOUL										
	0619	1600	DURN										
	1113	2141	SGMR										
	1330	2400	BOUL										
	1330	2245	HARV										
	2016	2400	CULG										
	2149	2400	MANI										
27	0000	0921	MANI										
	0000	0716	CULG				0223						IIIB,W
			CULG				0228	0229					IIIG,W
	0622	0757	DURN										
	0705	1513	WEIS										
	1114	2139	SGMR										
	1330	2400	BOUL										
	1331	2345	HARV										
	2016	2400	CULG										
	2149	2400	MANI										
28	0000	0921	MANI										
	0000	0716	CULG				0244.5	0245.5					IIIG,W
			CULG				0247	0248					IIIG,W
	0623	1600	DURN										
	0703	1514	WEIS										
	0842	0950	DWIN										
	1116	2138	SGMR										
	1330	2345	HARV										
	1536	2400	BOUL										
	2149	2400	MANI										
	2016	2400	CULG	2312.5	2313.5	1	2312.5	2314	2	2312.5	2314	2	IIIG
29	0000	0716	CULG										
	0000	0921	MANI										
	0625	1555	DURN										
	0704	1025	WEIS										
	1117	2137	SGMR										
	1330	2400	BOUL										
	1331	2345	HARV										
	1333	1509	WEIS										
	2016	2400	CULG										
	2149	2400	MANI										
30	0000	0921	MANI										
	0000	0716	CULG										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1975

OCT 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				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	
30	0627	1555	DURN										
	0707	1509	WEIS										
	1118	2135	SGMR										
	1330	2400	BOUL										
	1331	2345	HARV										
	2016	2400	CULG										
	2150	2400	MANI										
31	0000	0921	MANI										
	0000	0716	CULG										
	0632	1550	DURN										
	0708	1400	WEIS										
	1119	2134	SGMR										
	1330	2400	BOUL										
	1331	2343	HARV										
	2016	2400	CULG				2047.5						IIIB,W
	2150	2400	MANI										

SELECTED SOLAR EVENTS

OCTOBER 1975

Culgoora

UT Date 1975 OCT.	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.)				
7	0409	0410	160	0.4	30	0	†		
			80	0.6	30	0		IIIG	
			43.25	0.8	30	-			
8	2342	2345	160	0.6	0	0			
			80	0.7	0	0		II	
15	2242	2244	160	0.8	340	0			
			80	1.0	340	0		IIIG	
			43.25	1.2	330	-			
17	0244	0246	160	1.0	130	0			
			80	1.1	130	0		IIIG	Not recording at 43.25 MHz

Days without Heliograph observations: ....Daily observations.....

† Because of equipment modifications which are in progress, intensity classifications are not available for this month. An indication of intensities can be obtained from the corresponding entries in "Solar Radio Emission - Spectral Observations"

COSMIC RAY INDICES
(Neutron Monitors)
OCTOBER 1975

OCT. 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	4563.0	Not available at time of publication	Not available at time of publication	11833.9	9016.1	6334.8	4242.9	3544.7
2	4558.3			11816.7	9031.8	6326.5	4246.9	3537.7
3	4565.1			11842.2	9055.5	6339.5	4243.2	3539.0
4	4583.0			11886.3	9072.8	6359.0	4272.0	3545.7
5	4599.7			11924.0	9107.9	6359.7	4285.3	3551.2
6	4567.6			11856.3	9001.9	6331.7	4279.5	3555.5
7	4557.7			11826.6	8971.6	6337.8	4291.6	3547.6
8	4517.5			11714.2	8900.8	6319.7	4275.5	3542.2
9	4482.5			11698.0	8864.2	6312.5	4248.7	3530.5
10	4455.3			11706.0	8868.6	6315.4	4240.0	3536.3
11	4485.6			11707.5	8883.3	6305.2	4244.7	3528.2
12	4475.6			11743.7	8902.2	6308.7	4254.4	3526.4
13	4481.4			11762.8	8909.2	6336.0	4256.5	3527.5
14	4472.5			11785.1	8926.3	6348.0	4261.8	3536.8
15	4480.8			11823.8	8972.3	6343.1	4248.7	3537.0
16	4455.1			11747.4	8897.2	6316.3	4222.1	3531.0
17	4428.6			11717.5	8874.1	6285.1	4202.3	3524.7
18	4420.3			11696.6	8878.6	6273.4	4189.1	3517.7
19	4395.5			11631.7	8814.2	6234.4	4160.5	3514.6
20	4391.2			11655.9	8841.0	6253.2	4169.7	3525.0
21	4408.2			11732.2	8898.0	6266.9	4192.9	3536.7
22	4418.2			11755.1	8927.1	6270.5	4207.7	3539.4
23	4429.2			11773.9	8949.5(23)	6277.4	4212.2	3540.0
24	4439.5			11790.4	8925.1(21)	6281.5	4170.2	3538.4
25	4444.1			11803.7	-- (0)	6268.2	4149.2	3543.0
26	4455.3			11789.3	-- (0)	6278.7	4150.4	3548.3
27	4478.3			11832.8	9007.7(6)	6311.0	4197.1	3555.4
28	4486.7			11856.3(23)	9002.1	6323.9	4234.6	3545.0
29	4509.8			11856.3(23)	9002.4	6345.0	4253.9	3552.1
30	4515.4			11871.8	9014.9	6348.7	4258.9	3545.0
31	4542.6			11912.4(20)	9028.1	6388.6	4304.7	3552.6
MEAN	4485.9			11785.5	8949.8	6312.9	4231.2	3538.6

( ) Number of hours for which data are available if less than 24. Number of Section Hours at Climax if sum of both sections 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.

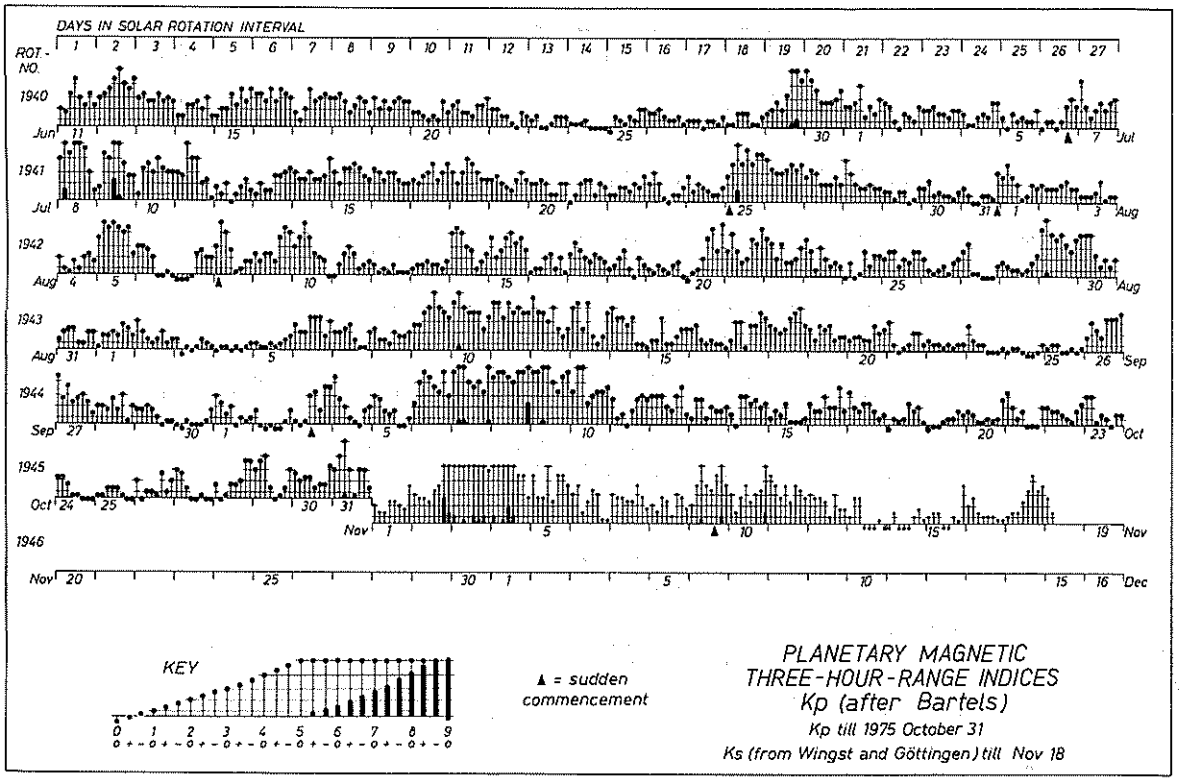
COSMIC RAY INDICES
(Neutron Monitors)
OCTOBER 1975

GEOMAGNETIC ACTIVITY INDICES

OCTOBER 1975

Day	Three-Hour Range Indices Kp									Cp	Ap	aa			
	1	2	3	4	5	6	7	8	Sum			N	S	M	
1	3	2+	1+	2	0+	1	1-	1	12-	0.3	6	15	12	19 8	KK
2 QQ	2-	0+	0	0+	0	0	1-	2-	5-	0.0	2	6	4	5 5	CC
3	1-	0+	1-	3	3+	2-	4-	4-	17	0.7	11	22	17	11 29	
4	4+	3-	2	1	1-	0+	2-	2	15-	0.5	9	17	11	17 11	
5	3	3-	2-	1+	2-	0+	0+	1	12	0.3	6	11	10	14 8	C
6 D	2+	4	5-	4+	4-	3+	5-	3	30	1.2	25	35	42	36 42	
7 D	5-	5+	5+	4	4-	4	3+	5+	36-	1.4	38	67	46	55 58	
8 D	4+	5-	5-	4+	4	5-	5-	7-	38	1.5	45	62	62	51 73	
9 D	5-	5-	5+	5	4	3+	4+	5-	36	1.4	37	48	54	58 45	
10 D	3+	5	5	2+	3	3+	3+	4-	29	1.2	24	43	29	39 32	
11	3-	1	1+	0+	2-	3-	3	3-	15+	0.5	8	17	16	9 24	
12	3	3	3	2	2-	3	4-	1+	21-	0.7	12	23	18	19 23	
13	1	3-	3-	1	2	2-	2-	2	15-	0.4	7	16	12	11 17	
14	1+	0+	3	3	2+	3-	2	2+	17	0.5	9	16	38	27 27	
15 QQ	1	2-	1+	2+	1-	1-	1-	1	9+	0.2	5	9	11	12 8	C
16	2+	2-	2-	3	2	2	4-	2-	18	0.5	10	20	26	23 23	
17	3+	2	2-	2+	2+	2-	1	1+	16-	0.4	8	16	15	19 12	
18 Q	0	1	1-	1	2+	2-	2	1-	9+	0.2	4	10	12	6 17	KC
19 QQ	0	0+	0+	1-	1	1	2-	1+	6+	0.1	3	7	8	6 9	CC
20 Q	2-	1+	1-	1-	1	1-	1	3-	10-	0.2	5	10	8	7 11	CC
21 Q	3+	2	1	2-	0+	0+	0+	2	11	0.3	6	10	9	13 7	CC
22	2	2-	2-	1+	1	1-	2-	2+	12+	0.3	6	13	12	12 13	CC
23	3	3	1-	1+	1	0+	1+	1+	12	0.3	7	14	12	14 13	KC
24 QQ	2+	2+	2-	1-	1-	0+	0+	0+	9-	0.2	4	9	8	12 5	CC
25 QQ	1-	1-	1+	1+	1+	1-	0+	0+	7-	0.1	4	6	11	7 10	CC
26 Q	2	0+	1	1	1-	3-	1	2	11-	0.2	5	12	10	6 17	KK
27 Q	3	3-	1+	0+	0+	1-	0+	0+	9	0.2	5	9	10	12 7	CK
28	2-	0+	1-	2-	2-	2	4-	4-	15+	0.5	9	20	18	11 28	
29	3	4-	4	1+	0+	1-	1+	3	17+	0.7	12	24	13	24 14	
30	3-	2	2+	2+	1+	2-	2-	3+	17+	0.5	9	20	16	19 17	
31	3	4	5+	3	1-	3	3	1+	23+	1.0	19	28	33	40 22	
									MEAN	0.53	12	20.5	19.5	20.0	

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

DAY	1974 NOV	DEC	1975 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	6	6	7	37	21	7	6	24	12	9	7	6
2	5	15	4	23	10	5	16	28	6	7	6	2
3	6	15	7	12	11	6	19	12	7	5	3	11
4	3	9	32	10	9	7	14	11	6	6	3	9
5	5	7	27	17	30	10	34	12	5	29	4	6
6	10	4	26	8	20	15	35	11	6	7	13	25
7	7	8	44	15	3	25	22	6	12	5	7	38
8	21	13	36	8	2	32	14	4	37	14	6	45
9	39	42	7	11	8	52	16	5	35	15	24	37
10	10	20	6	38	80	35	19	4	17	15	26	24
11	48	21	4	36	53	34	2	14	18	7	26	8
12	70	18	4	35	37	27	3	27	5	4	19	12
13	36	22	32	27	29	29	6	14	10	5	17	7
14	38	13	33	25	29	21	14	8	13	16	13	9
15	10	14	15	21	20	7	3	13	15	18	8	5
16	16	8	21	30	27	6	28	17	12	5	6	10
17	14	18	29	14	13	5	14	12	14	9	13	8
18	8	28	22	15	17	6	7	12	15	6	14	4
19	14	27	10	11	11	5	15	12	9	4	8	3
20	22	21	10	8	14	25	23	6	6	15	7	5
21	24	19	6	8	3	23	12	9	6	17	6	6
22	18	14	8	7	6	15	11	5	6	12	4	6
23	16	17	12	32	13	25	8	4	6	10	4	7
24	26	14	10	17	14	17	5	3	6	6	2	4
25	19	12	5	20	8	8	14	4	33	9	3	4
26	17	12	5	9	17	9	18	5	19	5	14	5
27	9	21	14	5	34	5	10	4	11	6	14	5
28	6	12	12	12	38	3	5	4	10	5	8	9
29	3	11	6		22	2	11	26	4	27	5	12
30	2	6	7		10	6	6	22	5	14	2	9
31		14	16		13		4		5	6		19
MEAN	18	15	16	18	20	16	13	11	12	10	10	12

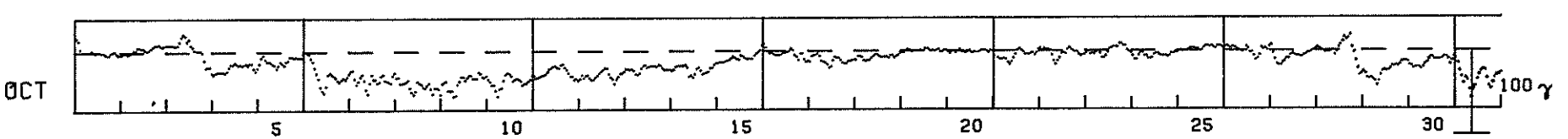
HOURLY EQUATORIAL Dst VALUES (PROVISIONAL)

OCTOBER 1975

NASA/GODDARD SPACE FLIGHT CENTER

(Time-UT) (Units-Gammas)

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	17	13	3	0	0	0	0	0	2	-1	-2	0	0	-1	-1	-3	-4	-4	-1	0	1	-2	-4	-4
2	-3	-2	-1	-3	-2	0	2	2	5	5	4	4	2	1	2	4	6	8	8	9	7	6	7	8
3	8	8	8	7	7	8	12	18	21	19	12	15	8	5	2	1	1	1	-1	-10	-19	-18	-18	-25
4	-27	-25	-24	-24	-24	-24	-25	-23	-18	-15	-15	-13	-14	-16	-15	-16	-15	-14	-16	-14	-14	-20	-23	-19
5	-14	-7	-4	-9	-12	-12	-13	-15	-16	-20	-16	-12	-14	-16	-12	-10	-6	-6	-7	-6	-7	-7	-7	-3
6	0	-2	-3	-8	-12	-19	-26	-32	-42	-46	-49	-41	-27	-25	-27	-29	-31	-34	-36	-33	-31	-33	-30	-26
7	-23	-22	-32	-39	-35	-30	-27	-34	-45	-50	-37	-27	-33	-33	-37	-36	-29	-27	-34	-35	-36	-37	-28	-25
8	-31	-31	-38	-38	-37	-36	-34	-43	-48	-51	-47	-35	-37	-39	-42	-43	-40	-37	-44	-50	-43	-43	-44	-51
9	-38	-36	-35	-46	-47	-46	-53	-52	-39	-35	-30	-30	-34	-31	-28	-28	-32	-32	-32	-24	-26	-30	-31	-29
10	-33	-36	-40	-40	-46	-53	-44	-43	-34	-27	-25	-26	-29	-35	-33	-32	-33	-35	-40	-38	-37	-35	-33	-28
11	-29	-32	-31	-30	-29	-28	-27	-24	-21	-19	-18	-17	-19	-20	-16	-15	-19	-22	-26	-30	-30	-34	-32	-35
12	-33	-28	-32	-29	-28	-32	-34	-34	-31	-29	-26	-24	-22	-20	-20	-27	-31	-33	-39	-33	-30	-26	-26	-24
13	-21	-21	-22	-21	-23	-27	-28	-26	-20	-17	-15	-19	-18	-17	-17	-17	-18	-16	-17	-20	-22	-22	-22	-22
14	-23	-22	-18	-17	-17	-17	-17	-16	-19	-30	-29	-31	-27	-21	-19	-23	-27	-26	-25	-24	-20	-19	-16	-14
15	-14	-13	-13	-13	-12	-11	-10	-8	-6	-8	-9	-10	-5	-6	-8	-9	-9	-9	-9	-5	-3	-1	1	7
16	9	4	0	-3	-2	-4	-5	-5	-5	-4	-2	-2	-1	0	3	1	-5	-7	-11	-3	-3	-10	-13	-12
17	-13	-6	-5	-4	-3	-6	-12	-13	-14	-16	-20	-18	-11	-7	-8	-8	-11	-14	-15	-15	-12	-12	-11	-10
18	-10	-6	-6	-7	-11	-12	-11	-11	-8	-6	-4	-4	-6	-7	-7	-7	-7	-8	-5	-5	-8	-6	-5	-2
19	-2	-1	1	2	1	-1	0	0	0	1	1	0	3	3	2	0	1	0	1	2	-1	-1	1	1
20	-1	-3	0	0	-2	0	2	-1	-2	-2	-1	1	-2	-2	-1	-1	-1	1	1	1	0	-2	1	0
21	-6	0	-8	-10	-10	-9	-10	-14	-16	-13	-8	-4	1	3	1	-1	-4	-4	-4	-3	-2	-5	-2	2
22	4	1	3	2	2	1	-5	-12	-16	-12	-8	-3	-2	-3	2	4	2	0	-1	-1	-4	-6	-5	-4
23	-2	0	-4	-3	-4	-1	0	-3	-8	-8	-6	-2	3	4	5	5	5	9	9	6	6	1	-1	-3
24	-6	-10	-10	-5	-2	-2	-6	-6	-9	-9	-8	-4	-3	-3	-5	-6	-6	-6	-7	-6	-3	-3	-1	-2
25	0	1	0	0	1	2	3	3	3	2	2	0	1	4	6	6	5	6	4	3	6	6	5	3
26	5	6	4	3	5	4	2	1	0	-1	0	5	3	-2	-2	-6	-11	-9	-5	4	2	3	1	5
27	7	-3	-10	-16	-17	-17	-14	-12	-9	-9	-5	-3	-5	-6	-6	-7	-7	-5	-4	-2	-2	0	1	3
28	4	3	1	0	-2	-2	-2	0	1	-5	-1	4	7	11	16	13	15	19	4	-2	-12	-21	-29	-27
29	-24	-27	-32	-33	-32	-34	-36	-41	-36	-29	-24	-23	-24	-23	-21	-18	-18	-17	-18	-16	-13	-12	-12	-13
30	-17	-18	-21	-20	-19	-20	-22	-19	-16	-14	-10	-7	-8	-11	-10	-10	-10	-9	-7	-7	-10	-16	-12	-7
31	-9	-15	-24	-31	-39	-32	-35	-46	-56	-46	-42	-34	-28	-24	-22	-23	-33	-42	-45	-38	-32	-29	-28	-26



PRINCIPAL MAGNETIC STORMS

OCTOBER 1975

OBS. 2 letter IAGA code	GEOMAG-NETIC LATI-TUDE	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
HD	7.6N	3	0600	..	..	..	..	3(7,8)	3	4	100	27	04	06
NE	55.1N	3	0619	SC	0.5	1.0	..	4(1)	5	25	58	83	04	09
MB	21.3N	3	1114	SC*	+ 0.2	+17	..	3(7)	5	1	78	12	05	06
KG	56.5S	3	1116	SC	--	--	--	3(8)	4	--	--	--	04	06
AL	9.5N	6	05--	..	..	..	..	6(7) 7(5) 8(6,8) 9(2)	5	5	120	47	09	19
HD	7.6N	6	0500	..	..	..	..	6(4) 7(6) 8(6)	5	5	126	32	10	23
GU	4.0N	6	0508	..	..	..	..	7(4)	5	10	120	30	10	09
AN	1.5N	6	05--	..	..	..	..	--	-	3	172	72	09	19
CO	64.6N	6	05--	..	..	..	..	7(3) 8(4) 9(3,4)	7	215	1960	1010	11	02
SI	60.0N	6	05--	..	..	..	..	8(4)	-	70	--	730	10	10
NE	55.1N	6	05--	..	..	..	..	10(2)	6	44	125	230	11	04
WI	54.2N	6	11--	..	..	..	..	6(7) 7(8) 8(8)	6	38	215	60	10	10
TU	40.4N	6	05--	..	..	..	..	7(1,2,3,4,8)	5	16	120	30	10	12
GN	43.2S	6	04--	..	..	..	..	6(7) 7(4,5) 8(4,5,6,7,8) 9(3,4)	5	16	90	120	11	03
HR	33.7S	6	18--	..	..	..	..	6(7) 7(2) 8(8) 9(4)	6	20	105	102	10	09
PM	18.7S	6	04--	..	..	..	..	6(4) 7(3,4) 8(4) 9(3) 10(2)	5	6	110	50	11	00
HO	21.1N	6	05--	..	..	..	..	8(3)	5	6	71	21	--	--
MB	21.3N	6	00--	..	..	..	..	7(8)	5	3	59	18	11	00
TU	40.4N	6	05--	..	..	..	..	8(2,4,7,8) 9(2,3,4) 10(2,3)	5	16	120	30	10	12
KG	56.5S	6	05--	..	..	..	..	8(8)	7	--	--	--	11	02
HU	0.6S	6	0030	..	..	..	..	6(4,5)	5	7	238	38	07	24
TV	1.1S	6	05--	..	..	..	..	--	-	2	215	96	09	19
FR	49.6N	7	01--	..	..	..	..	8(8)	6	29	88	79	10	09
BO	48.9N	7	01--	..	..	..	..	10(3)	6	31	116	73	11	06
SJ	29.9N	7	0100	..	..	..	..	8(7)	5	8	77	26	08	04
TO	46.7S	8	04--	..	..	..	..	8(4,8) 9(3,4)	5	16	150	50	10	00
AL	9.5N	14	0634	SC	- 0.4	13	- 3	14(3,4,5,6,8)	3	4	76	29	15	06
HD	7.6N	14	0618	SC	- 0.4	+13	- 1	14(5) 16(7)	4	5	93	22	17	19
AN	1.5N	14	0634	SC	- 0.5	23	7	--	-	3	111	34	15	06
NE	55.1N	14	0619	..	..	..	..	14(3)	5	19	72	45	14	23
TV	1.1S	14	0634	SC	0.2	20	24	--	-	2	138	76	15	06
AL	9.5N	28	13--	..	..	..	..	28(7)	4	2	48	20	29	05
HD	7.6N	28	0500	..	..	..	..	28(7)	4	2	84	13	29	06
AN	1.5N	28	13--	..	..	..	..	--	-	1	61	19	29	05
NE	55.1N	28	1221	..	..	..	..	29(3) 31(3)	5	31	107	121	31	12
TV	1.1S	28	13--	..	..	..	..	--	-	1	62	55	29	05
PM	18.7S	31	04--	..	..	..	..	31(3)	5	4	110	30	01	00

Reports were received from the following observatories:

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

SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS

OCTOBER 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)

03 1116 A: LG; B: WN DB IK PE LM CZ KG; C: NI EB TL SZ (si: A: NU; C: PP - sfe: SS)

Sudden impulses found in the magnetograms (si)

n o n e

Solar-flare effects (sfe)

Effects confirmed by ionospheric or solar observations are underlined.

04 1148 - 1157 SZ

04 1251 - 1303 SZ

10 1151 - 1156 SZ

28 1248 - 1302 SZ

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

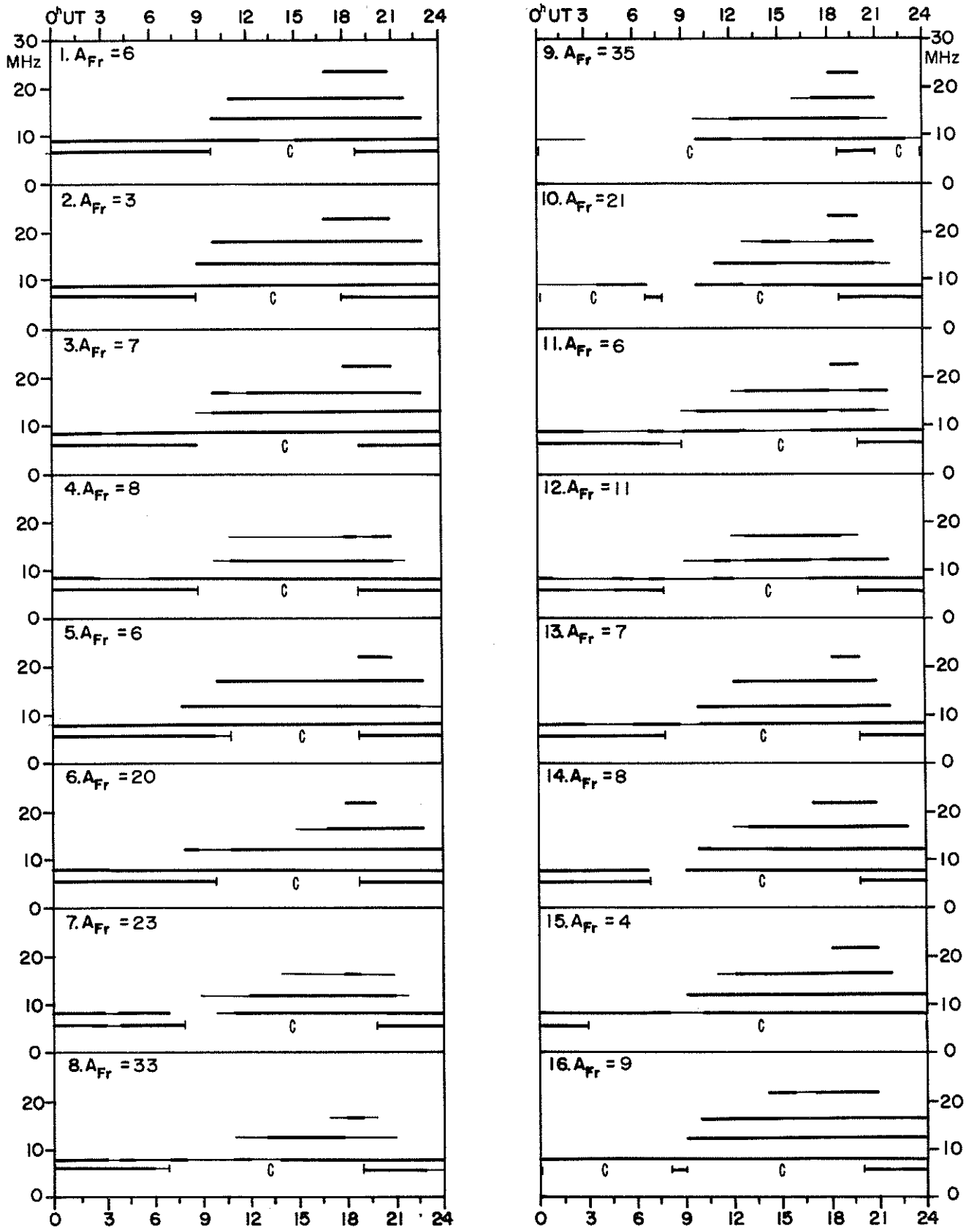
OCTOBER 1975

North Atlantic

OCT 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	6o	7	6-	5+	7o	6+	6	6	6	7	2	1	6
02	6o	6	6o	5o	6+	6+	7	6	6	7	1	1	3
03	6+	6	6+	6-	7-	6+	6	6	6	6	1	2	7
04	6o	6	6o	5+	6+	6o	5	5	5	5	3	1	8
05	6o	6	5+	6-	7-	6+	6	6	6	6	2	1	6
06	6o	5	6-	6+	6o	6-	6	6	6	5	(4)	3	20
07	5+	5	5+	5+	5+	6-	5	4	5	5	(4)	3	23
08	5o	5	5+	5-	5o	4+	5	4	4	5	(4)	(4)	33
09	5-	5	4+	4+	5o	5-	4	4	5	5	(5)	(4)	35
10	5o	5	5+	4+	6-	5o	4	4	5	5	(4)	3	21
11	6-	5	6-	5+	6-	6-	5	5	6	6	1	2	6
12	5+	6	5o	6-	5+	5o	5	5	5	5	3	2	11
13	5+	6	5o	6-	5+	5+	5	5	5	5	2	2	7
14	6o	6	6-	6-	6o	6o	5	5	5	6	2	2	8
15	6-	6	6-	6-	6o	6o	6	6	5	6	2	1	4
16	6o	6	6o	6+	6o	6+	6	5	5	6	2	2	9
17	6o	6	6o	6o	6o	6+	6	6	5	6	2	1	6
18	6o	6	6o	6o	6o	6+	5	5	6	6	1	2	3
19	6+	6	7-	6o	6o	6+	5	5	6	6	0	1	2
20	6o	7	6o	6-	7-	6+	6	6	6	7	1	1	3
21	6o	7	6o	6-	6o	6+	6	6	6	6	2	1	5
22	6o	7	6o	5+	6o	6+	5	5	5	6	2	1	5
23	6o	5	6-	5o	6+	6+	6	6	6	5	2	1	6
24	6+	5	6o	7-	6+	6+	5	5	6	6	2	0	3
25	6+	5	6o	6o	6+	7-	6	6	6	6	1	1	2
26	6+	6	6o	6-	7-	7o	5	5	5	5	1	1	4
27	6+	6	6+	6o	6+	7-	5	5	5	5	2	0	4
28	7-	6	6+	6+	7-	7-	6	6	6	7	1	2	6
29	6+	6	7-	6+	6+	7-	6	5	5	6	3	1	11
30	6+	6	6+	6-	7-	7-	6	5	5	6	3	2	9
31	6o	6	6+	6o	6o	6o	6	5	5	6	3	1	10

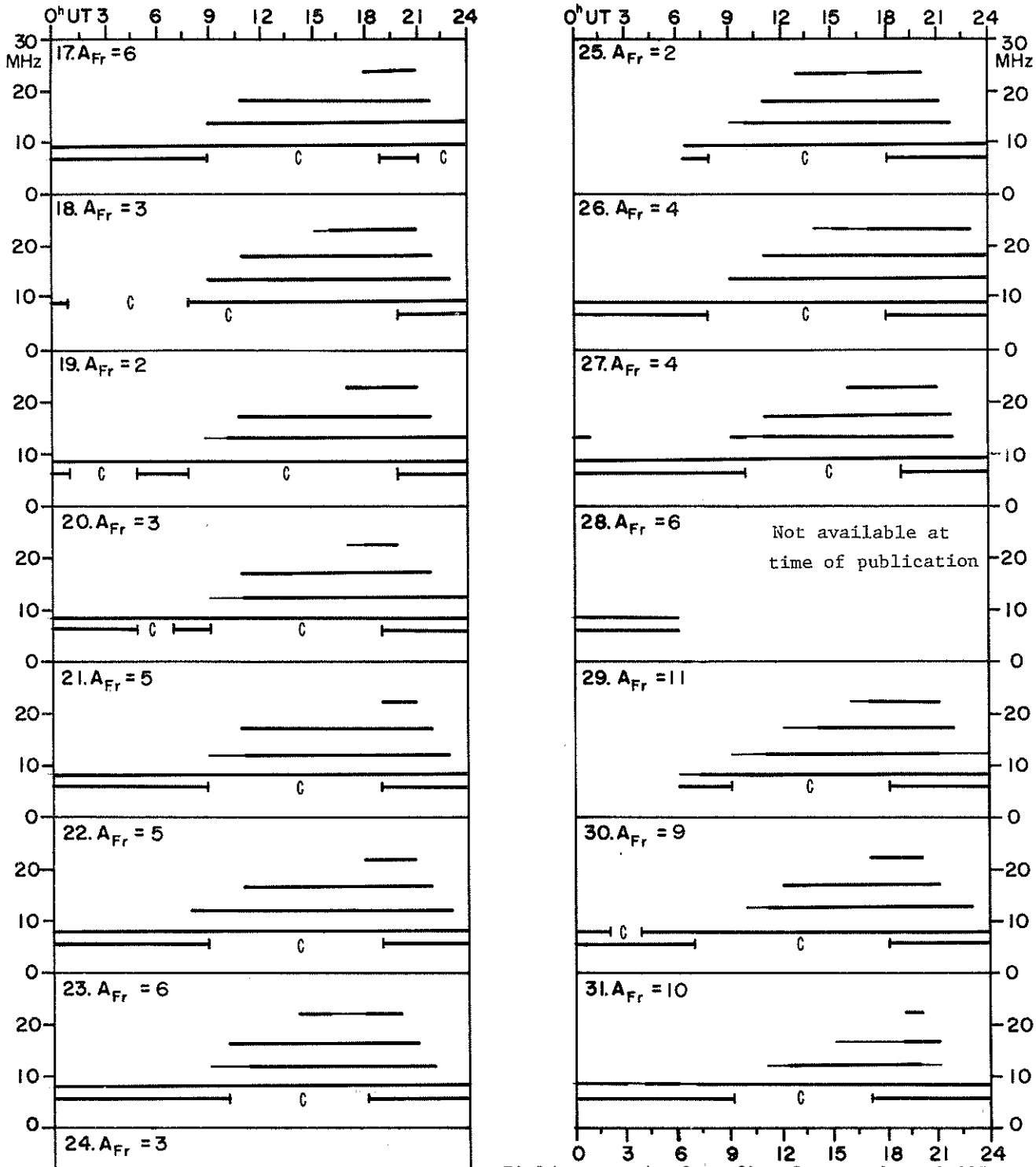
TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

OCTOBER 1975



TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

OCTOBER 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**

ISCOMM - ERL

RADIO PROPAGATION QUALITY INDICES

OCTOBER 1975

Quality Indices calculated for reception at Lüchow

	TOKYO	HALIFAX	MAURITIUS	CANBERRA	BRACKNELL
1	8.4	9.3	8.1	5.4	14.4
2	9.1	9.6	7.7	5.2	14.1
3	9.0	8.5	7.2	4.9	14.4
4	8.8	7.6	7.7	5.1	14.0
5	8.7	8.4	7.9	5.3	14.0
6	10.4	7.3	8.3	5.3	14.2
7	7.2	6.1	7.8	5.0	13.6
8	6.2	5.1	7.7	5.0	13.6
9	5.7	5.3	8.0	4.9	13.0
10	6.2	5.8	8.8	4.6	13.1
11	6.6	5.9	8.4	4.5	13.1
12	7.2	5.8	8.2	4.6	13.4
13	6.4	7.3	8.4	5.1	13.7
14	6.2	7.0	9.1	5.7	13.8
15	6.7	7.7	9.8	5.4	14.2
16	7.7	9.1	9.0	5.4	14.6
17	7.3	8.9	9.4	5.4	14.4
18	6.9	9.3	10.4	5.7	14.5
19	7.2	8.9	10.0	5.2	14.8
20	7.4	9.4	10.1	5.0	14.4
21	7.2	9.3	9.6	5.7	14.6
22	7.6	9.0	9.3	5.6	15.0
23	7.8	9.5	9.2	5.8	14.9
24	7.7	9.1	9.2	5.5	13.8
25	7.4	9.2	9.6	5.8	14.2
26	8.6	8.7	9.6	6.3	14.6
27	8.4	9.4	9.2	6.4	14.9
28	8.0	9.2	9.1	6.1	15.1
29	7.0	8.1	8.7	6.0	14.2
30	6.7	8.3	8.8	5.5	13.9
31	6.1	7.2	9.3	5.2	14.2
MEAN	7.5	8.0	8.8	5.4	14.2

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.

USCOMM-NOAA-ASHEVILLE,NC-12-31-75-950

WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS

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."