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ENVIRONMENTAL DATA SERVICE
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Solar - Geophysical Data

NO. 375 NOVEMBER 1975

Part I (Prompt Reports)

DATA FOR
OCTOBER 1975
SEPTEMBER 1975

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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No. 375

Issued in two parts

Hope I. Leighton, Editor

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Solar - Terrestrial Data Services Division

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OCTOBER 1975 DATA

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ALERT PERIODS

INTERNATIONAL URSIGRAM
AND WORLD DAYS SERVICE

OCTOBER 1975

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS)

BOULDER 07/1315Z WEAK MAGSTORM IN PROGRESS 07/1200.

SUMMARY OF THE GEOALERT WWA MESSAGES

Message serial number	Date of issue	Date of observation	Wolf number	10 cm solar flux	A index	Active Regions				Outstanding events	Forecasts			Alert Situations
						Location Lat-Long	No. of Flares Total	M	X		Date	Location Lat-Long	Desc*	
274	1	30	11	76	2	N32E76	0	0	0		1	N32E76	Q	SOLQUIET MAGQUIET
275	2	1	11	76	6	N32E67	0	0	0		2	N32E67	Q	SOLQUIET MAGQUIET
276	3	2	11	78	3	N32E54	0	0	0		3	N32E54	Q	SOLQUIET MAGALERT MINOR 06/11
277	4	3	11	78	7	N32E41	0	0	0		4	N32E41	Q	SOLQUIET MAGALERT MINOR 06/11
278	5	4	11	76	6	N32E30	0	0	0		5	N32E30	Q	SOLQUIET MAGALERT MINOR 06/11
279	6	5	11	76	5	N33E17	1	0	0		6	N33E17	Q	SOLQUIET MAGALERT MINOR 06/11
280	7	6	11	75	20	N33E03	0	0	0		7	N33E03	Q	SOLQUIET MAGALERT MINOR 07/09
281	8	7	13	74	25	N32W09	0	0	0		8	N32W09	Q	SOLQUIET MAGALERT MINOR 07/11
282	9	8	22	74	27	N32W22 S11E46	1 0	0 0	0 0		9	N32W22 S11E46	Q Q	SOLQUIET MAGALERT MINOR 09/11
283	10	9	11	76	28	N32W34	3	0	0		10	N32W34	Q	SOLQUIET MAGALERT MINOR 10/11
284	11	10	11	75	21	N32W46	0	0	0		11	N32W46	Q	SOLQUIET MAGALERT MINOR 11
285	12	11	11	74	6	N32W58	0	0	0		12	N32W58	Q	SOLQUIET MAGNIL
286	13	12	26	75	13	N33W75 N06E30	0 0	0 0	0 0		13	N33W75 N06E30	Q Q	SOLQUIET MAGQUIET
287	14	13	43	79	7	N33W84 N06E16	0 0	0 0	0 0		14	N33W84 N06E16	Q Q	SOLQUIET MAGQUIET
288	15	14	26	80	12	N06E01	0	0	0		15	N06E01	Q	SOLQUIET MAGQUIET
289	16	15	43	81	5	N06W12	0	0	0		16	N06W12	Q	SOLQUIET MAGQUIET
290	17	16	17	79	8	N06W25	0	0	0		17	N06W25	Q	SOLQUIET MAGQUIET
291	18	17	24	79	6	N06W39 N03E68	0 0	0 0	0 0		18	N06W39 N03E68	Q Q	SOLQUIET MAGQUIET
292	19	18	24	80	6	N06W52 N03E54	0 0	0 0	0 0		19	N06W52 N03E54	Q Q	SOLQUIET MAGQUIET
293	20	19	26	79	2	N06W68 S16E45	0 0	0 0	0 0		20	N06W68 S16E45	Q Q	SOLQUIET MAGQUIET
294	21	20	11	78	4	N05W83	0	0	0		21	N05W83	Q	SOLQUIET MAGQUIET
295	22	21	00	76	7	SPOTNIL	0	0	0		22	SPOTNIL		SOLQUIET MAGQUIET
296	23	22	00	75	5	SPOTNIL	0	0	0		23	SPOTNIL		SOLQUIET MAGALERT MINOR 23/24
297	24	23	00	75	6	SPOTNIL	0	0	0		24	SPOTNIL		SOLQUIET MAGALERT MINOR 24/25
298	25	24	00	74	4	SPOTNIL	0	0	0		25	SPOTNIL		SOLQUIET MAGNIL
299	26	25	00	73	4	SPOTNIL	0	0	0		26	SPOTNIL		SOLQUIET MAGQUIET
300	27	26	00	73	4	SPOTNIL	0	0	0		27	SPOTNIL		SOLQUIET MAGQUIET
301	28	27	00	73	4	SPOTNIL	0	0	0		28	SPOTNIL		SOLQUIET MAGQUIET
302	29	28	00	73	5	SPOTNIL	0	0	0		29	SPOTNIL		SOLQUIET MAGQUIET
303	30	29	00	72	12	SPOTNIL	0	0	0		30	SPOTNIL		SOLQUIET MAGQUIET
304	31	30	00	73	9	SPOTNIL	0	0	0		31	SPOTNIL		SOLQUIET MAGALERT 02/06
305	01	31	00	71	14	SPOTNIL	0	0	0		01	SPOTNIL		SOLQUIET MAGALERT MINOR 02/06

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

	1974 FINAL		1975 PROVISIONAL									
DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	18	0	30	0	0	0	26	7	23	37	14	15
2	27	0	30	22	7	0	33	11	18	36	16	8
3	39	9	28	28	14	0	29	8	22	46	19	9
4	45	16	19	27	11	0	28	7	22	78	29	10
5	36	17	18	20	14	21	28	7	23	93	25	8
6	25	8	23	26	14	0	20	7	33	104	24	10
7	22	7	32	34	7	15	16	0	23	102	24	9
8	14	0	29	29	18	17	0	0	19	89	23	16
9	7	0	37	22	19	9	0	0	16	83	17	15
10	24	9	31	18	20	13	9	0	23	80	10	8
11	27	21	30	13	20	0	0	9	29	72	10	8
12	24	31	31	18	15	0	0	0	33	45	16	8
13	16	34	32	9	15	0	0	0	49	52	25	16
14	8	33	11	8	17	0	7	0	44	34	17	30
15	16	35	20	8	18	0	7	8	43	31	8	23
16	20	40	17	8	30	0	8	19	39	26	14	19
17	20	36	16	0	30	0	0	17	23	19	14	8
18	18	34	20	0	24	0	8	12	29	16	18	18
19	34	43	20	0	20	0	0	16	36	8	13	16
20	40	40	18	7	16	0	0	0	26	22	38	12
21	40	40	16	8	9	0	0	7	30	23	27	7
22	44	37	16	0	0	0	8	0	27	0	23	0
23	44	28	15	0	0	7	8	12	19	8	0	0
24	37	26	7	12	0	8	7	20	30	8	0	7
25	29	9	7	9	0	7	0	24	33	11	0	0
26	25	8	7	0	13	7	0	33	30	16	0	0
27	23	8	0	0	7	26	7	38	29	18	0	0
28	13	28	7	0	0	19	13	36	26	10	0	0
29	7	16	7		0	16	0	23	20	10	0	0
30	7	19	7		7	20	0	22	27	21	7	0
31		13	0		8		8		34	21		0
MEAN	25.0	20.5	18.7	11.6	12.8	6.2	8.7	11.4	28.3	39.3	14.1	9.0

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	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	90.2	79.7	78.1	70.8	70.7	70.2	76.3	71.4	78.7	91.6	87.0	76.4
2	92.0	78.7	75.8	72.3	72.4	71.2	81.1	73.0	76.8	95.4	87.9	78.1
3	96.2	76.7	77.1	74.3	73.4	72.2	79.6	70.8	77.1*	97.0*	87.8	78.4
4	99.5	74.7	74.4	75.4	72.8	73.0	79.6	70.4	76.8	104.6	92.8	76.3
5	97.6*	73.2	73.7	76.5	71.3	73.7	78.4	69.3	76.8	107.9	94.4	76.1
6	92.3	71.9	73.8	81.1	72.4	73.7	75.9	68.2	76.1	120.0*	94.0	75.1
7	85.6	71.1	75.7	79.4	71.9	74.3	73.6	68.1	74.1	123.2	91.1	74.3
8	82.0	69.6	77.7	78.8	72.5	73.6	71.9	67.5	74.0	123.7	88.5	74.0
9	78.9	69.6	79.9	77.1	73.8	73.4	70.6	67.7	73.3	115.9	84.3	75.4
10	78.4	70.4	80.5	76.7	73.3	72.4	70.1	68.8	73.0	116.5	82.5	74.3
11	77.3	76.2	81.2	74.8	73.0	72.3	69.8	68.1	77.6	107.3	81.1	73.3
12	79.1	77.9	82.4	74.9	74.2	70.8	69.6	68.4	82.7	104.5*	78.2*	74.8
13	76.1	78.0	80.4	73.7	75.6*	70.7	69.1	67.9	88.5*	98.0	75.2	79.0
14	77.7	78.2	77.7	72.0	75.0	69.7	68.7	68.5	89.0	90.9*	74.2	80.0
15	80.0	83.2	77.4	69.7	73.4	69.7	68.0	68.9	85.6	86.0	74.1	80.3
16	82.5	88.3	76.5	71.4	76.0	69.2	68.5	71.4	83.6	82.8	74.3	78.5
17	84.6	88.3	74.7	69.3	75.3	69.6	68.3	70.2	81.2	79.0	74.8	78.9
18	88.5	90.3	75.8	68.3	74.2	68.3	68.7	70.2	82.8	76.4	76.2	79.2
19	96.0	91.9	74.1	70.0	72.9	67.5	68.9	71.0	81.9	76.7	76.2	78.0
20	95.6	87.3	73.8	69.5	71.9	68.0	68.6	72.5	83.3	77.2	76.5	77.1
21	96.2	86.0	74.5	68.9	71.2	68.2	69.7	68.7	83.1	80.0	76.7	75.7
22	98.7	84.4*	73.6	68.3	69.3	67.8	70.8	69.9	82.7	78.5	75.3	74.2
23	98.1	83.0	72.7	68.3	67.6	68.7	70.6	72.9	82.0	76.8	76.1	74.3
24	95.9	80.1	71.0	68.6	67.4	69.3	70.6	75.9	79.3	77.0	76.8	72.7*
25	94.5	78.9	70.3	69.4	67.5	71.6	70.2	77.7	79.8	80.6	76.7	72.1
26	92.2	75.8	70.5	68.8	68.6	72.1	69.0	79.8	80.0	81.3	76.7	71.9
27	90.8	74.3	70.1	69.4	67.3	74.4	70.5	81.5	78.5	83.6	75.7	72.1
28	86.6	73.7	70.7	68.6	67.8	74.8	70.6	80.7	76.5	83.3	76.1	71.7
29	83.8	74.1	70.4		69.0	73.2	71.0	79.4	75.5	84.7	75.9	70.8
30	82.0	74.5	70.5		69.0	73.4	71.0	78.8	78.9	86.2	75.8	70.2
31		76.1	70.1		70.5		71.1		81.9*	86.7		69.9
MEAN	88.3	78.6	75.0	72.4	71.7	71.2	71.6	71.9	79.7	92.7	80.4	75.3

* adjusted for burst

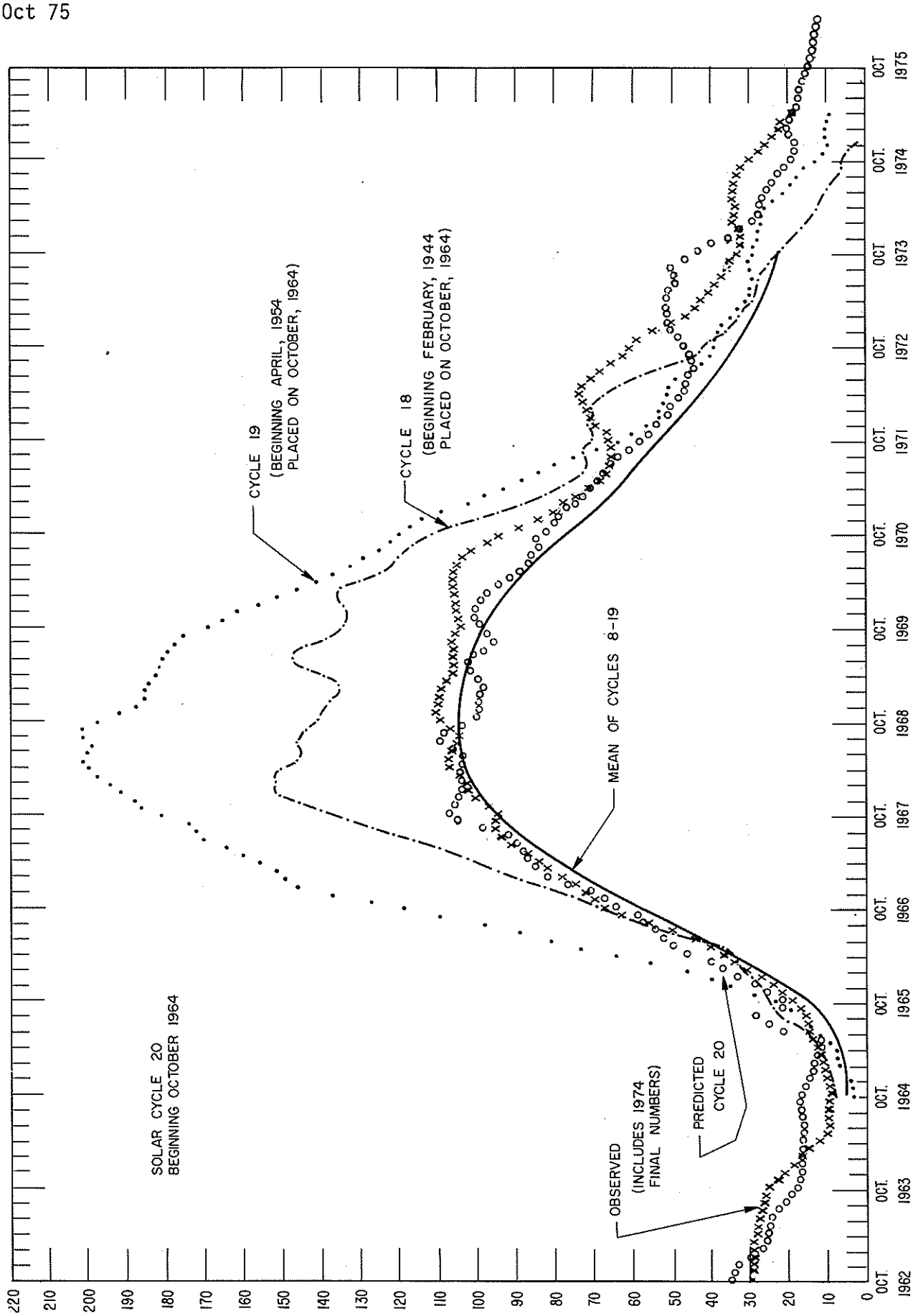
DAILY SOLAR INDICES

OCTOBER 1975

OCT 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	274	5	15	9	76.2	524	271	119	76.4	73.5	50.2	38.6	22.3	8.3
2	275	6	8	8	78.0	525	272	119	78.1	75.0	50.7	39.8	24.1	8.3
3	276	7	9	8	78.3	525	276	120	78.4	74.8	51.9	39.7	24.5	8.6
4	277	8	10	9	76.3	526	274	119	76.3	74.9	48.7	39.7	22.6	8.5
5	278	9	8	9	76.1	525	275	118	76.1	73.8	49.1	38.9	21.8	8.1
6	279	10	10	10	75.2	528	272	116	75.1	71.4	47.2	37.5	21.3	8.2
7	280	11	9	9	74.5	525	276	115	74.3	71.2	47.0	36.8	22.5	8.0
8	281	12	16	12	74.1	517	275	115	74.0	71.1	44.0	36.7	21.1	8.4
9	282	13	15	14	75.6	521	279	119	75.4	72.7	46.4	37.0	22.1	10.1
10	283	14	8	9	74.5	518	281	115	74.3	71.3	47.2	36.4	21.6	8.3
11	284	15	8	9	73.6	518	280	117	73.3	72.0	47.4	36.8	21.7	8.9
12	285	16	8	14	75.1		279	119	74.8	74.0	48.3	36.8	22.4	8.8
13	286	17	16	21	79.4		279	122	79.0	75.5	50.5	37.8	21.6	8.8
14	287	18	30	23	80.4	526	282	125	80.0	76.3	52.5	36.8	21.2	8.2
15	288	19	23	20	80.8	527	277	125	80.3	78.5	58.5	38.2	21.0	8.3
16	289	20	19	16	79.1	528	275	120	78.5	76.7	52.0	36.6	22.0	8.0
17	290	21	8	15	79.5	522	279	121	78.9	76.4	52.2	36.6	21.5	8.1
18	291	22	18	12	79.8	523	277	121	79.2	76.2	52.5	37.1	22.6	8.3
19	292	23	16	11	78.6	523	275	120	78.0	75.3	52.2	38.5	22.9	8.4
20	293	24	12	10	77.8	523	273	120	77.1	74.9	51.6	40.6	23.4	8.4
21	294	25	7	3	76.4	524	270	120	75.7	73.3	49.7	38.3	22.4	8.0
22	295	26	0	0	74.9	524	271	117	74.2	71.8	49.8	38.2	21.6	8.1
23	296	27	0	0	75.0	526	270	118	74.3	70.5	49.7	37.3	21.0	8.7
24	297	1	7	1	73.5*	526	272	117	72.7*	70.1	49.5	38.5	22.2	8.4
25	298	2	0	0	73.0	524	265	117	72.1	70.1	48.3	38.0	22.0	8.3
26	299	3	0	0	72.8	521	263	115	71.9	69.2	48.1	37.4	21.4	7.6
27	300	4	0	0	73.0	522	269	115	72.1	70.5	46.8	39.8	22.1	8.0
28	301	5	0	0	72.6	529	271	117	71.7	69.1	47.4	37.2	21.8	7.9
29	302	6	0	0	71.8	522	268	114	70.8	67.2	44.5	37.4	21.4	8.0
30	303	7	0	0	71.2	523	270	114	70.2	68.0	47.5	37.7	22.1	8.2
31	304	8	0	0	71.0	523	274	112	69.9	68.2	45.4	37.7	20.7	8.0
MEAN			9.0	8.1	75.4	524	274	118	75.3	72.7	49.3	37.9	22.0	8.3

* Adjusted for burst.

Errata: Mean Values for Daily Solar Indices in July 1975 published in SGD 372-Part I should be corrected to the following: $R_{A'}$ = 28.5; Observed Ottawa 2800 MHz Flux = 77.2; Adjusted Ottawa 2800 MHz Flux = 79.7.



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	13.2	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	95.0	97.1	100.6
1968	102.6	102.9	104.7	107.2	107.6	106.6	105.2	104.8	107.0	109.9	110.6	110.1
1969	110.0	109.6	108.0	106.4	106.2	106.1	105.8	106.4	105.4	104.1	104.6	104.9
1970	105.6	106.0	106.2	106.1	105.8	105.3	103.8	101.0	97.2	93.9	89.4	84.1
1971	80.4	77.8	74.4	70.9	68.1	66.7	65.4	64.6	65.8	66.2	66.8	69.4
1972	70.8	71.2	72.4	73.4	72.9	70.5	68.2	65.5	62.2	60.6	58.7	55.1
1973	50.9	46.5	44.2	42.7	40.7	39.1	37.5	36.1	34.4	32.6	31.8	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	17.6 (2.1)	17.0 (5.1)	16.3 (7.1)	15.8 (9.1)	15.3 (--)	14.8 (--)	14.3 (--)	13.8 (--)
1976	13.4 (--)	13.0 (--)	12.7 (--)	12.4 (--)								

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

OCTOBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		CORD.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
BOUL	01	1419	1423	1434	N39	E80	.998		7.6	15	SF	2	C	1423	21	.7	
ATHN	05	0851E	0854	0859	N34	E24	.722		7.2	80	SF	3	V		32		DE H
ATHN	05	0851E	0854	0859	N34	E24	.722		7.2	80	SF	3	C		32		DE H
MCMA	06	1355	1405	1450	N33	E14	.663	13875	7.6	55	SF		C	1405	35	.4	EH
MCMA	07	2024	2025	2038	N33	W03	.636	13875	7.6	14	SN		C	2025	50	.5	EH
RAMY	08	1406	1415	1420	N32	W20	.681		7.1	14	SF	4	C		45		DE
PALE	08	2341E	2342	2352D	N33	W21	.697		7.4	110	SF	3	C		23		
MANI	08	2343E	2343U	2355D	N32	W21	.687		7.4	120	SF	2	V	2343	20	.2	
MANI	09	0848E	0848U	0852D	N32	W26	.717		7.4	40	SF	2	V	0848	30	.4	F
CATA	09	0850	0850	0900	N33	W27	.733		7.3	10	SN	3		0850		.7	
ATHN	09	0851E	0851U	0856	N32	W26	.717		7.4	50	SF	4	V		48		FDE
ATHN	09	0851E	0851U	0856	N32	W26	.717		7.4	50	SF	4	C		48		FDE
RAMY	09	1618	1626	1639	N31	W34	.762		7.1	21	SF	3	C		36		F
BOUL	09	1624E	1628	1643	N32	W33	.763		7.2	190	SF	1	P	1628	10	.1	
CATA	12	1225E	1250	1310D	N05	E37	.626		15.3	450	SF	3		1250		.7	
CATA	12	1325E	1325	1335D	N05	E37	.626		15.3	100	SF	3		1325		1.1	
CATA	13	0825	0825	0830D	S11	E60	.860	13892	17.9	50	SN	3		0825		4.9	
MCMA	13	1615	1635	1705	N05	E20	.393	13890	15.2	50	SN		C	1635	100	1.1	E
ISTA	14	0808		0820	N05	E16	.339		15.5	12	SN						
CATA	14	0845E	0845	0845D	N06	E09	.269		15.0		SN	3		0845		1.2	
MCMA	14	1519E		1745D	N05	E05	.221	13890	15.0	146D	SN		P	1521	40	.4	EK
BOUL	14	1537	1538	1635	N 5	E 5	.221		15.0	58	SF	2	C	1538	64	.6	
BUCA	15	0840		0855	N02	W05	.176		15.0	15	SN		P	0842	107	1.2	
CATA	15	0845E	0845	0855	N02	W05	.176		15.0	100	SF	3		0845		.9	
ISTA	20	0815		0827	S10	W45	.702		17.0	12	SN						
ATHN	23	0638	0639	0644	N 2	E 7	.199		23.8	6	SN	4	V		16		DE

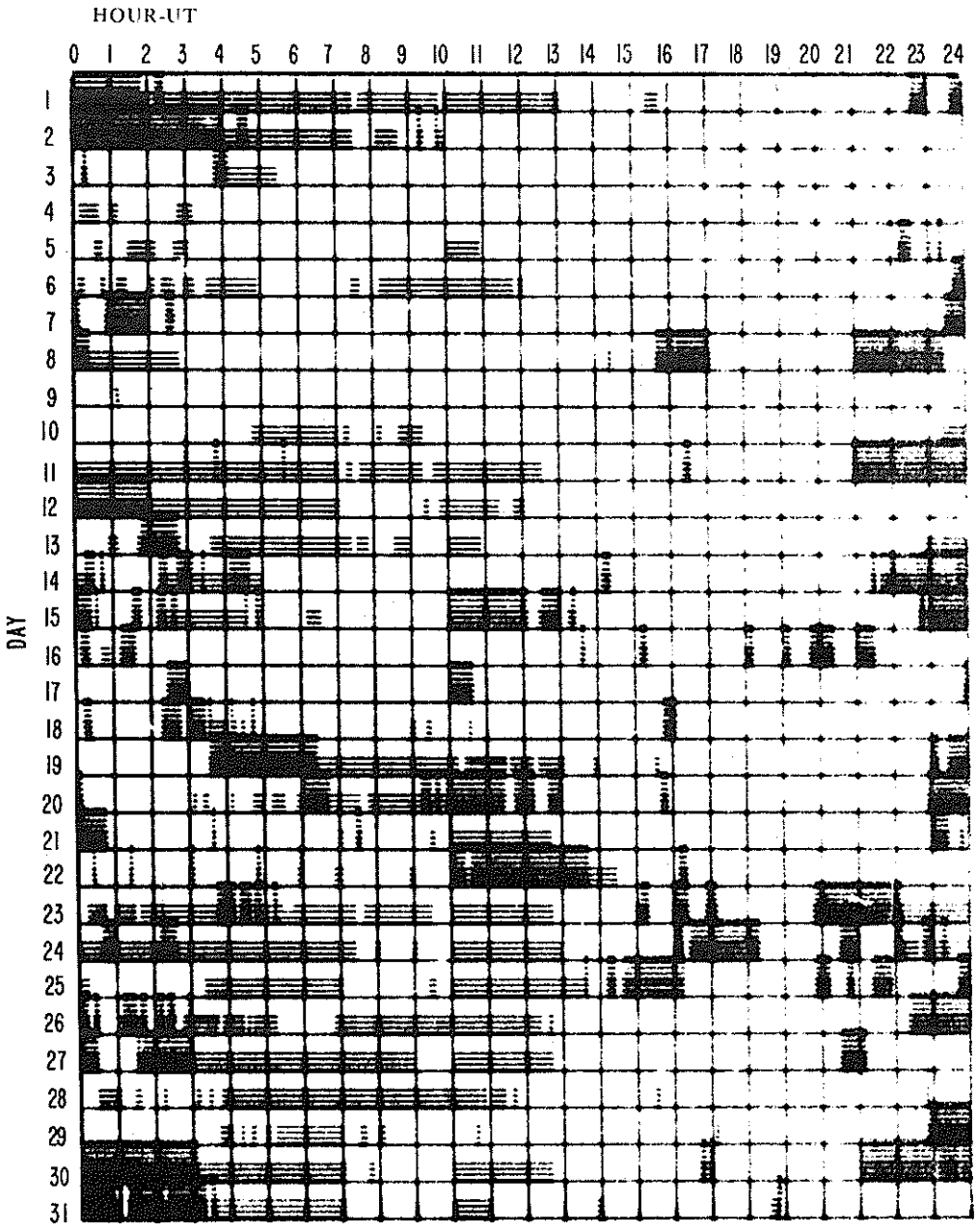
"Remarks":

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

OCTOBER 1975



Observatories included in total patrol:

Athenes	Catania	Kodaikanal	Mitaka	Tehran
Boulder	Herstmonceux	Manila	Palehua	Upice
Bucharest	Istanboul	McMath-Hulbert	Ramey	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).

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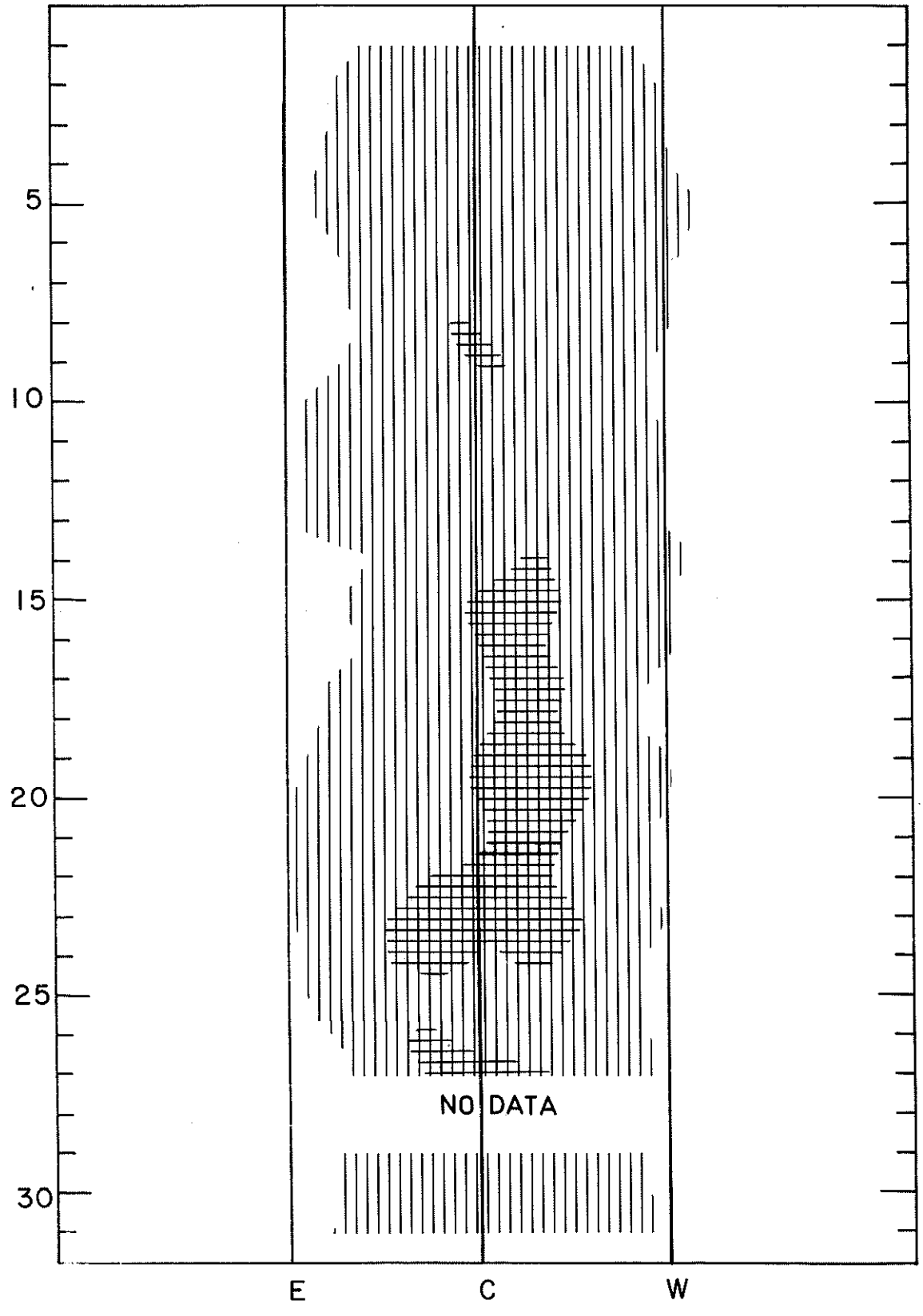
Oct 75

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

OCTOBER 1975

Nançay

169 MHz

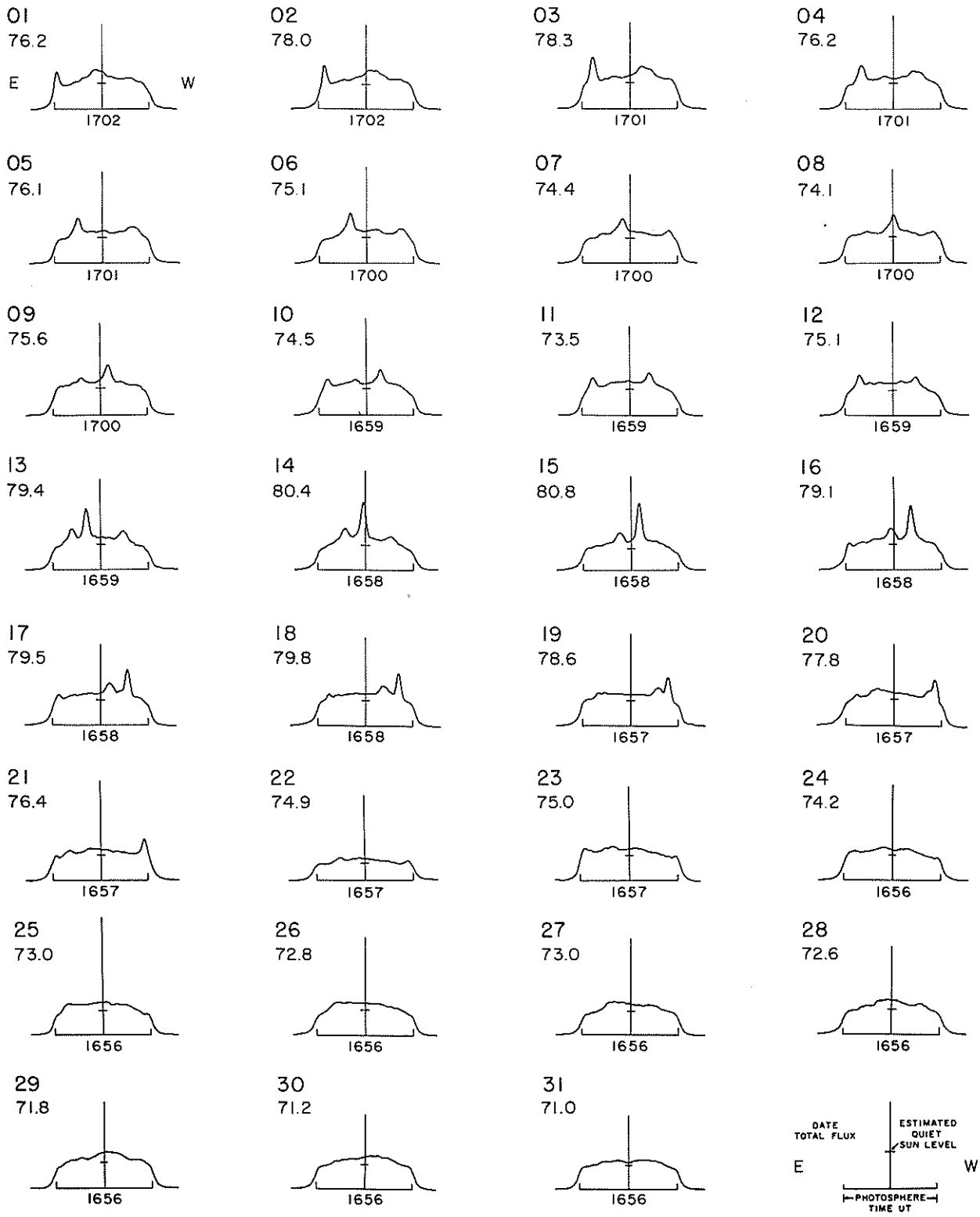


EAST - WEST SOLAR SCANS

October 1975

ALGONQUIN RADIO OBSERVATORY
CANADA

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



14
Oct 75

EAST-WEST SOLAR SCANS

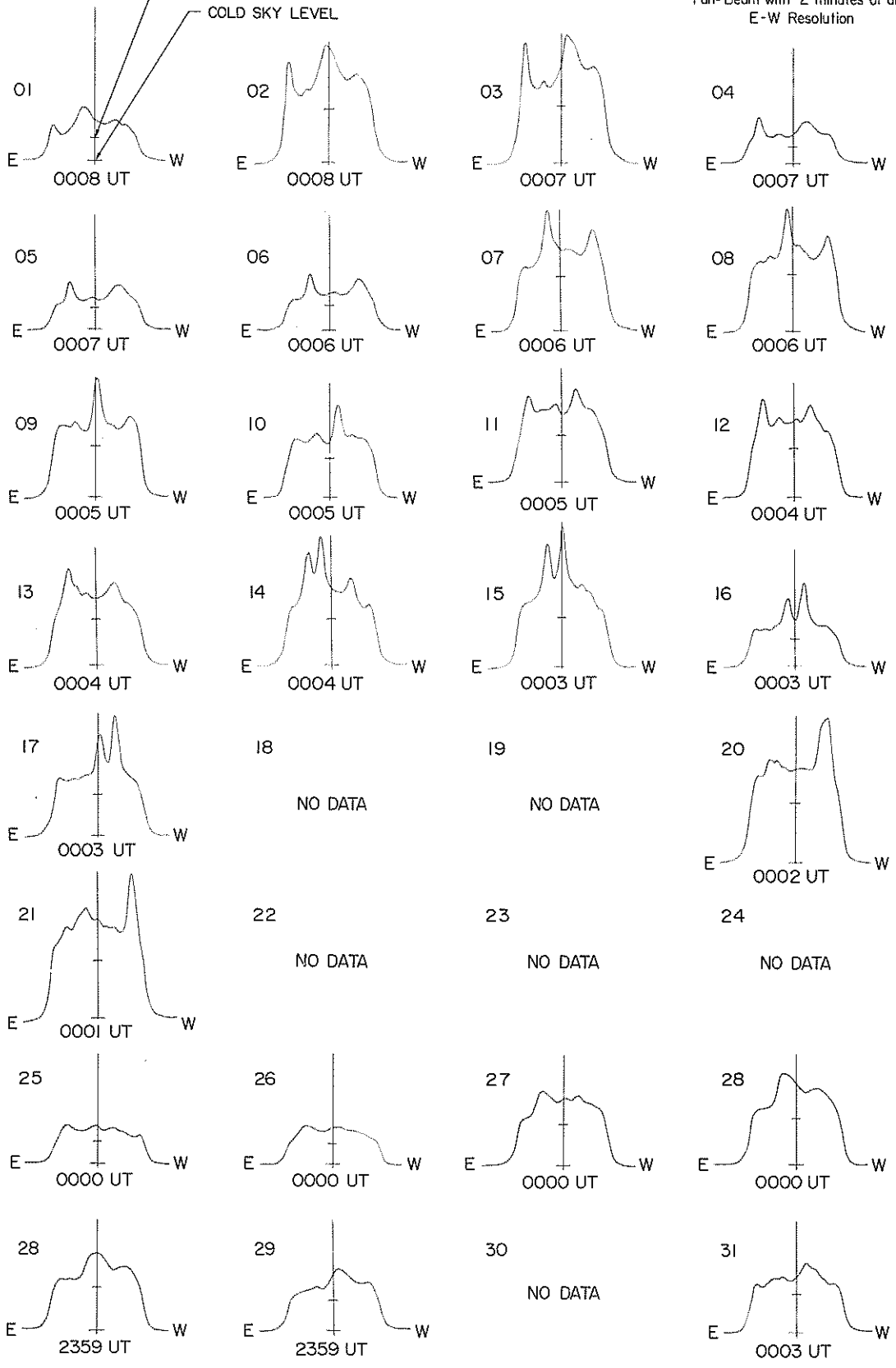
OCTOBER 1975

Fleurs, Australia

ESTIMATED QUIET SUN LEVEL

COLD SKY LEVEL

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

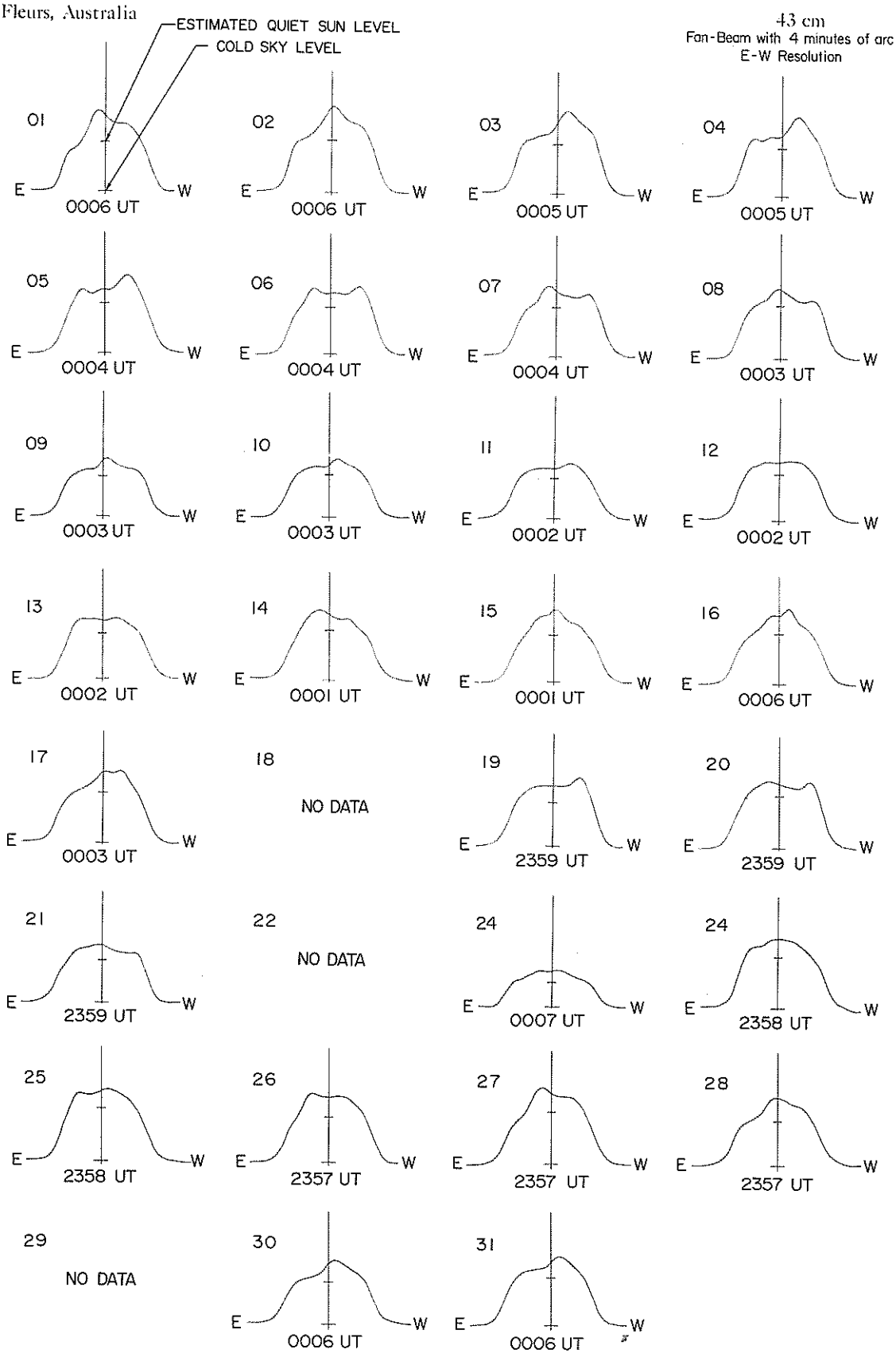


EAST-WEST SOLAR SCANS

OCTOBER 1975

Fleurs, Australia

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



SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS

OCTOBER 1975

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
2	2800	OTTA	27 RF	1835		105	0.6	0.5		
	2800	OTTA	24 R	1835	1845	10	0.6	0.3		
	2800	OTTA	24P R	1845		75	0.6			
	2800	OTTA	26 F	2000	2020	20	-0.6	-0.3		
3	2800	OTTA	1 S	2140.9	2142	2	1.4	0.8		NULL
	2695	PENT		2140.9						
7	2800	OTTA	20 GRF	2025	2030	30	0.6	0.3		
8	2695	BOUL	45 C	2335	2340.5	2.5	9	3		
	2800	OTTA	45 C	2337	2339.5	4	3	1.4		
9	2800	OTTA	20 GRF	1615	1625	25	1	0.5		
13	2800	OTTA	20 GRF	1620	1635	35	1.4	0.7		
23	2695	BOUL	3 S	1900.5	1901.5	4.5	5	2		
24	2800	OTTA	20 GRF	1435	1545	220	1.4	0.7		

Observatories:

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

Explanation of Type Code:

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

SOLAR WIND

Interplanetary Scintillations

OCTOBER 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			488	34									345	12		
2									449	77			285	4		
3													366	79		
4									307	15			385	35		
5	279	46							290	8			493	90		
6	353	113	347	155					434	87			355	32		
7	476	*	388	122			415	102	496	25			388	21		
8	432	*	359	*									468	51		
9	641	309	453	*	612	233	524	129					499	67		
10	439	*	382	12			523	32					468	42		
11	429	*	736	192									401	23		
12			548	79			665	89	595	94			522	12		
13			326	119			533	21					409	7		
14									461	84			443	21		
15													344	18		
16			448	173			520	116					464	12		
17	471	*							503	119	431	142	460	40		
18			443	150					745	172			369	22		
19													491	81		
20											292	106	594	111	326	68
21	441	26	423	184							540	111	504	137	270	20
22			393	134					258	39			486	131	329	40
23													524	67		
24	288	86													299	13
25													506	193		
26									414	110			464	140		
27									338	90	402	144	421	151		
28									338	19			435	211		
29							444	135	385	97					361	82
30									501	*						
31	321	52					386	*			298	69				

OCTOBER 5	UT	LAT	DIST	DLON
3C48	9.	11.	1.27	5.
3C144	13.	5.	1.13	15.
3C147	12.	12.	1.11	14.
3C161	14.	-2.	1.07	14.
3C237	18.	-2.	0.66	48.
3C273	20.	32.	0.14	84.
3C298	22.	49.	0.44	-57.
3C459	6.	8.	1.28	-5.

15	UT	LAT	DIST	DLON
3C48	8.	10.	1.28	3.
3C144	12.	4.	1.17	13.
3C147	11.	11.	1.15	13.
3C161	14.	-2.	1.11	13.
3C237	17.	-1.	0.78	38.
3C273	19.	13.	0.30	73.
3C298	21.	68.	0.35	-46.
3C459	6.	8.	1.27	-7.

25	UT	LAT	DIST	DLON
3C48	8.	9.	1.28	1.
3C144	12.	3.	1.21	11.
3C147	11.	10.	1.18	11.
3C161	13.	-3.	1.14	11.
3C237	17.	0.	0.88	28.
3C273	19.	7.	0.45	63.
3C298	21.	71.	0.33	38.
3C459	5.	7.	1.24	-9.

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

SOLAR X-RAYS BY SATELLITE
SMS GOES
OCTOBER 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
10/ 1	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	B	B	B
10/ 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
10/ 4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.03	B	B	B	0.01	B	B	B
10/ 5	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.13	B	B	B	B	B
10/ 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
10/ 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
10/ 8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B
10/ 9	B	M	B	0.28	B	B	B	B	B	B	B	0.01	B	B	B	B	B	B	B	B	B	B	M	M	0.01
10/10	B	B	B	B	B	0.06	0.56	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.03
10/11	B	0.80	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.17	0.04
10/12	0.01	0.03	B	B	B	B	B	B	M	M	M	M	M	M	M	M	M	B	B	B	M	M	B	B	B
10/13	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	B
10/14	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
10/15	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.04	0.04	B	B	B
10/16	B	B	B	B	B	B	0.10	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/17	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/18	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
10/19	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
10/20	B	B	B	B	B	B	0.24	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/21	B	B	B	B	B	B	B	0.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/22	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
10/23	B	B	B	B	B	B	0.09	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/24	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/25	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	B
10/26	B	B	B	B	B	B	B	B	B	B	M	M	M	M	M	M	M	M	M	M	M	M	M	M	B
10/27	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B	B	B
10/28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.04	0.11	B	B	B
10/29	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	B	M	B	B
10/30	M	M	B	M	M	M	M	M	M	M	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B
10/31	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
OCTOBER 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
10/ 1	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	0.02	B	B
10/ 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
10/ 4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.13	B	B	B	B	B	B	B	B
10/ 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
10/ 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
10/ 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
10/ 8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	0.01	B	B	B	B
10/ 9	B	M	B	0.19	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	0.01
10/10	B	B	B	B	B	0.02	0.33	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02
10/11	B	0.73	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.08	0.04
10/12	B	0.05	B	B	B	B	B	B	M	M	M	M	M	M	M	M	M	B	B	B	M	M	B	B	B
10/13	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/14	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
10/15	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.05	0.09	B	B	B
10/16	B	B	B	B	B	B	0.09	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/17	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/18	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
10/19	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
10/20	B	B	B	B	B	B	0.26	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01
10/21	B	B	B	B	B	B	B	0.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/22	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
10/23	B	B	B	B	B	B	0.09	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/24	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/25	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	B
10/26	B	B	B	B	B	B	B	B	B	B	M	M	M	M	M	M	M	M	M	M	M	M	M	M	B
10/27	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
10/28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.04	0.18	B	B	B	B
10/29	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	B	M	B	B
10/30	M	M	B	M	M	M	M	M	M	M	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B
10/31	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.

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	TA	A	T	-	AT	A	T	T	T	T	T	T	T	T	T	A	A	TA	-
1902	AUG 19	A	-	A	-	A	A	A	A	A	A	A	A	A	TA	T	A	A	A	A	A	A	A	A	T	T	A	A	A	A	A	A	T	T	T	T	T	T	T	TA	A	A	A	TA	T	A	A	A	A	TA	A	A	-
1903	SEP 15	A	A	TA	T*	A	A	A	A	A	A	AT	A	A	A	A	T	T	A	AT	A	A	A	A	-	A	-	A	-	A	-	A	T	T	T	T	T	T	T	T	A	-	T	T	T	A	AT	A	TA	A	A	T
1904	OCT 12	T	T	A	-	TA	-	A	A*	A	T	A	T	TA	T	A	A	A	A	A	T	TA	A	TA	A	AT	A	AT	A	A	A	T	AT	T	T	A	AT	A*	T	AT	T	T	TA	T	TA	*	A	A
1905	NOV 8	A	A	T	A	AT	A	AT	AT	TA	AT	T	AT	A	T	TA	T*	A	A	A	A	A	A*	TA	AT	A	A	A	A	TA	AT	T	T	A	T	TA	TA	A	T	A	T	A	T	AT	T	A	A	TA	A	A	A	A	A	AT	AT	T	T
1906	DEC 5	T	T	T	T	TA	AT	T	-	T	-	T	T	T	T	A	AT	A	-	TA	T	TA	T	A	A	AT	-	A	-	A	T	T	TA	A	A	T	T	T	A	A*	A	T	T	T	T	T	T	TA	AT	TA	T
1907	1973 JAN 1	T	T	T	T	T	T	T	T	TA	T	T	T	A	T	AT	-	A	AT	A	T	A	-	AT	-	A	TA	A	A	A	A	A	A	A	A	A	T	T	A	-	T	-	T	T	T	-	TA	AT	T	-	T	T	T	T
1908	JAN 28	T	T	A	A	T	T	TA	T	AT	T	T	T	T	T	A	T	A	A	A	A	TA	A	A	A	A	A	AT	T	TA	A	AT	A	TA	A	AT	AT	-	A	A	A	A	T	T	T	T	AT	T	T	T	T	T	T	T
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	A	AT	TA	A	AT	A	A	A	A	AT	TA	A	A	T	A	A	AT	TA	A	A	AT	A	T	T	T	T	T	T	T
1910	MAR 23	T	T	T	T	T	T	T	A	T	T	T	T	T	T	T	TA	AT	A	T	TA	A	A	A	A	A	-	A	A	A	A	T	TA	A	A	A	A	A	AT	AT	T	-	T	-	T	T	A	T	T	T	T	AT	T*	T	T*
1911	APR 19	T	T	T	AT	T	T-	A	T	T	T	AT	T	A	A	AT	T	T	T	TA	A	A	A	A	AT	A*	A	A	-	AT	A	TA	A	A*	-	T	A	A	T	TA	T	T*	-	AT	A	A	T	T	T	-	A	-	T	A	A*
1912	MAY 16	T	T	T	T	T	T	T	T	AT	T	-	T	-	TA	T	T	A	A	AT	AT	T	T	AT	A	A	A	-	A	A	A	-	A	A	A*	A	A	A	A	A	A	A	A	T*	A	-A	A	A	-	-	T	T	T	T
1913	JUN 12	TA	T*	-	T	*	-	T	T	TA	T*	A	A	T	T	-	T*	T	T*	T	T	T	T	T	AT	AT	A	A	A	A	TA	T	*	-	T	T	-	A	A	A	A	A	A	A*	A	AT	T	-	T	T	A	A	-	A	T	T
1914	JUL 9	T	T	T	T	A	A	T	T	-	T	AT	A	T	T	T*	A	T*	-	A	A	AT	*	-	A	A	T	T	A	TA	-	T	T	T	T	T	A	A	-	A*	A	A	A	A	A*	A	TA	-	A	A	TA	T	T*	T	T*	T	T
1915	AUG 5	T	T	A	A	A	A	T	AT	A	A	A	T	T	T*	T	T	AT	*	T	AT	T	T	A	AT	T	T	A	A	A	TA	T	T	T	T	A	A	A	A	A	AT	A	A*	A	AT	A	A	A	A	T	TA	A	A*	A	A
1916	SEP 1	T	TA*	T	T	T	T	A	AT	A	A	A	TA*	A	A	A	A*	T	T	T	T	T	T	A	A	A	A	A	T	T	T	T	T	T	T	A	T	T	T	A	A	A*	T	A	A	T*	A	A	A	A	TA	A*	A	A
1917	SEP 28	A	A*	TA	A	T	AT	T	T	A	A	A	A	A	A	T	A	AT	A*	AT	T*	AT	AT	T	T	T	T	T	T*	T	T	T	T*	T	T*	AT	T	TA	A	A	T	-	A*	A	A	A	A	A	T	AT	A	AT	T	T	T
1918	OCT 25	T	T	T	T	A	TA	A	A	A	T	A	T*	T	A	T	A	A	A	A	A	T	A	TA	T	T	T	AT	T	T	T	T	T	T	TA	T	T	T	T	T*	A	A	A	A	AT	A	AT	TA	A	T	A	-	A	A
1919	NOV 21	A	*	T	T	T	-	A	A	A	A	AT	T	A	T	A	T*	A	TA	A	A	A	A	A	A	T	TA	T	T	T	T	T	T	T	*	T	T	T	T	TA	TA	A	A	T	T	T	-	T	A	A	TA	A	A	T	T
1920	DEC 18	T	T	AT	A	A	T	A	T	A	TA	A	T	A	T	A	*	A	A	A	*	AT	T	T	T	T	T	T	T	T	*	T	T	T	T	T	T	A	T	AT	T	T	A	T	A	T	T	T	T	AT	TA	T	T	T	A	A	T	AT	T
1921	1974 JAN 14	T	A	A	T	-	T	T	A	A	T	A	A	A	A	A	A	-	A	A	-	AT	-	T	T	T	TA	T	*	T	A	T	T	T	T	T	A*	AT	T	AT	T	TA	A	T	-	T	T	T	T	T	T	T	TA	A
1922	FEB 10	A	-	A	-	A	*	A	A	A	A	A	A	A	A	TA	T	A	A	A	A	A	T	*	T	T	T	T	T	T	T	A	T	-	T	T	T	T	T	T	TA	T	T	T	T	T	T	T	T	T	T	T	A	A	A	A
1923	MAR 9	A	A	A	A	A	A	A	A	A	A	A	A	A	T	T	TA	TA	A	AT	A	A	A	A	A	T	A	T	TA	T	A	T	T	A	T	A	A	T	A	T	T	T	T	T	T	T	TA	T	T	TA	T	TA	A	TA	-	A	TA
1924	APR 5	A	A	A	A	A	-	TA	A	A	A	A	A	A	A	*	A	A	A	A	A	A	A	A	T	T	TA	TA	TA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	A	TA	A	A	T	T	A	A	A	-	-	-
1925	MAY 2	-	-	A	A	A	A*	AT	T	A	AT	AT	T	A	T*	TA	A	A	A	TA	T*	A	A*	AT	AT	T	T	T	T	T	T	T	T	T	TA	T*	T	T	T	T	T	T	T	TA	-	T	T	TA	T*	T	T	A	-	-	-
1926	MAY 29	T	T	A	A	A	*	-	A	A	A	A	*	A	A	*	-	TA	*	A	A	A	A	T	T	T	T	TA	TA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	AT	*	-	T
1927	JUN 25	TA	TA	A	A	-	A	-	A	A	T	A	A	A	A	A	A	A	A	A	-	TA	TA	-	T	T	T	T	T	T	T	T	-	T	T	-	T	T	T	T	T	T	T	T	A	AT	AT	T	T	T	T	T	T	T
1928	JUL 22	T	T	A	A	A	A	AT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	T	-	T	-	T	-	T	-	T	-	T	-	AT	-	AT	-	T	-	TA	-	T	-	T	-	T	-	T	-	T	-
1929	AUG 18	AT	-	A	-	A	-	A	-	A	-	A	-	A	-	AT	-	TA	T	T	T	T	T	T	T	T	T	T	TA	AT	T	T	T	AT	T	T	T	TA	A	AT	-	T	T	T	T	T	T	-	A	-
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	T	T	T	T	T	T	-	T	T	T	AT	T	T	T	T	T	TA	T	T	A	A	T	T	T
1931	OCT 11	T	T	TA	T	A	A	A	A	A	A	A	A	A	A	A	AT	A	A	A	TA	A	A	A	T	T	AT	-	T	T	AT	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1932	NOV 7	TA	-	T	-	A	-	A	-	A	A	A	A	A	A	A	A	-	A	-	AT	-	TA	A	T	T	T	T	T	T	T	T	A	T	*	T	A	T	T*	T	AT	T	T	T	T	T	T	T	TA	T	A	T	T	T
1933	DEC 4	T	T	TA	T	T	A	TA	A	A	T	A	T	A	*	AT	T*	A	T	A	*	A	T	A	A	A	A	A	T	T	T	T	T	T	T	T	T	T	T	T	T*	A	*	A	T	A	A	A	A	AT	TA
1934	DEC 31	T	A	T	T	T	T	A	TA	A	T	A	T	A	-	A	-	TA	T	A	A	AT	-	A	A	A*	A	*	T	T	T	T	T	T	T	T	T	T	T*	T	T*	T	T	T	T	T	T	*	A	A	A	A	AT	A*	A	A
1935	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	T	T	T	AT	T	T	T	T	T	T*	T	-	TA	A	T	A*	AT	T	A	TA	TA	T	A	A	A	A
1936	FEB 23	TA	A	A	A	A	A*	TA	A	A	AT	A	A	A	A	A	A	A	AT	T	A	A	A	A	A	T	T	T	T	T	T	A	T	A	A*	T	T	T	T	T	TA	T	A*	T	T	T	A	T	*	T	T	T	A	A
1937	MAR 22	A	A	A	A	TA	A	T	T	A	A*	A	A	A	A	A	A	AT	A*	T	A	A	A	T	*	TA	T	T	T	T	T	*	T	A	A*	T	T	A	T	A	T	A	A	T	T	T	T	T	A	A	A	A	A	A
1938	APR 18	A	A	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	A	A	T	T	-	T	T	T	-	T	T	T	T	T	A	A*	T	T	T	T	-	A	T	AT	T	T	TA	T
1939	MAY 15	T	T	A	A	TA	TA	A	A	A	A	A	T	T	TA	TA	-	*	A	A	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	-	*	-	*	-	*	*	T	T	T	T	A	A
1940	JUN 11	A	A	A	A	A	A	A	A	A	A	*	-	-	-	-	-	-	-	A	A	A	A	TA	A	A	AT	A	A	A	A	A	A	A	T	T	T	T	T	T	A	A	T	A*	A	A	T	T	T	T	T	T*	T	T	T
1941	JUL 8	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	A*	A	T	A	A	A	T	T	T	TA	A	AT	T	T	T	T	T	T	T	AT	AT	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	A	A	T	T	T	-	A	T	T	*	T	T	TA	T	T	T	T	T	T	-	AT	AT	T	T	T	A	A	A	A
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	A	A	A	A*	A	A*	A	T	T	T	T	T	T	-	T	TA	T	T	T	T	T	T	T	A	T	A	A
1944	SEP 27	A	A	T	A	A	A	A	A	A	T	T	T	A	T	-	A	-	A	-	A	A*	A	A	A	A	A	A	*	AT	A	T	T	A	A	A	A	AT	*	T	A	T	T	T	A	T	T	T	T	T	T	T	TA	A	A	-
1945	OCT 24	T	T	T	T	T	T	T	T	T	TA	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.

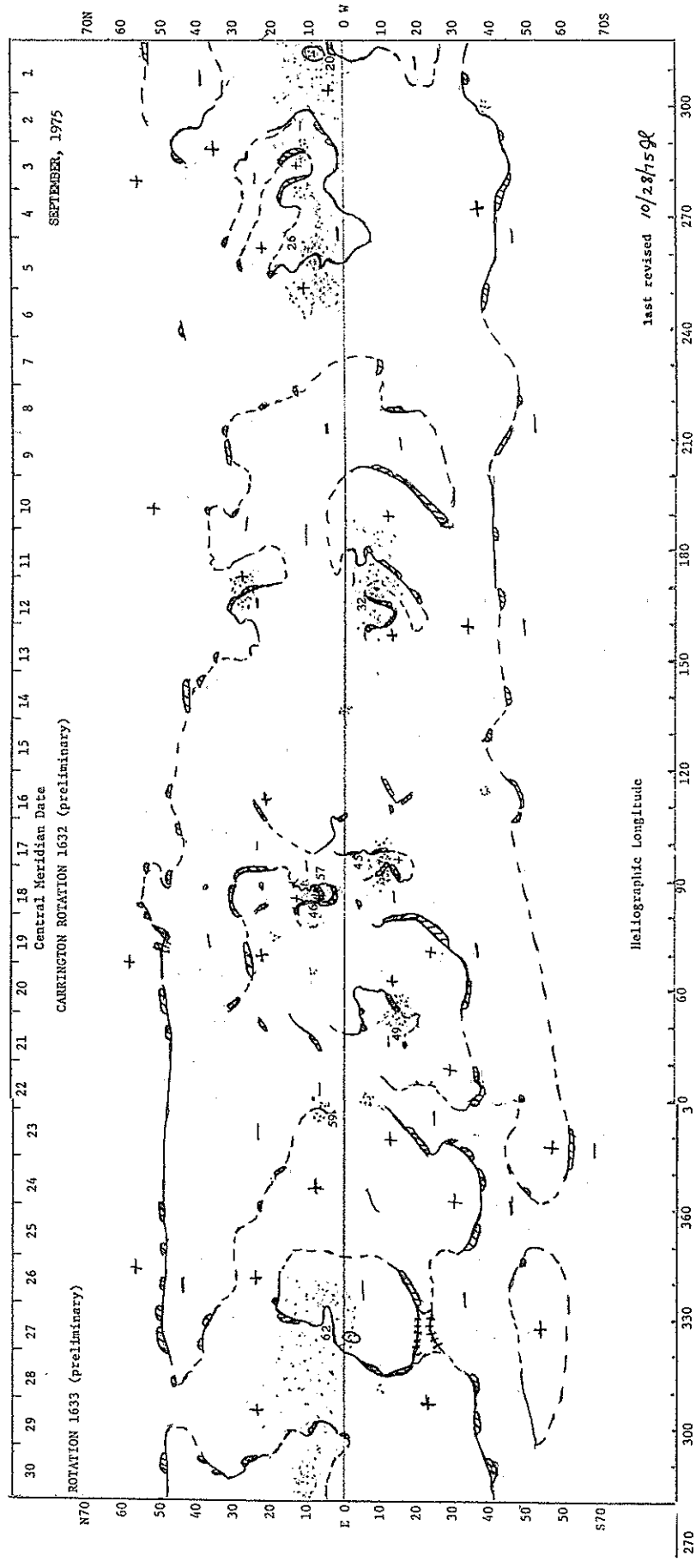
SGD 375 Part I (Prompt)

SEPTEMBER 1975 DATA

Contents

Hα SYNOPTIC CHART

SEPTEMBER 1975



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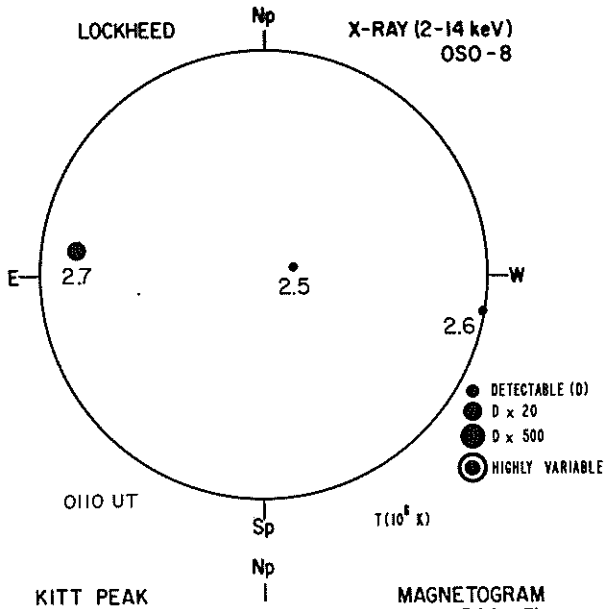
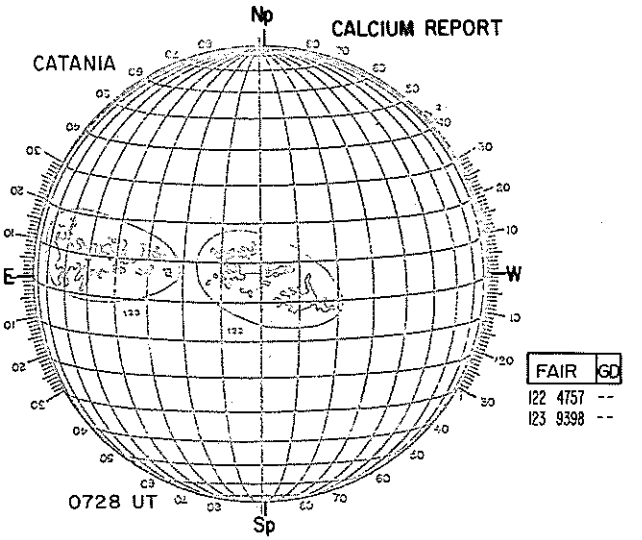
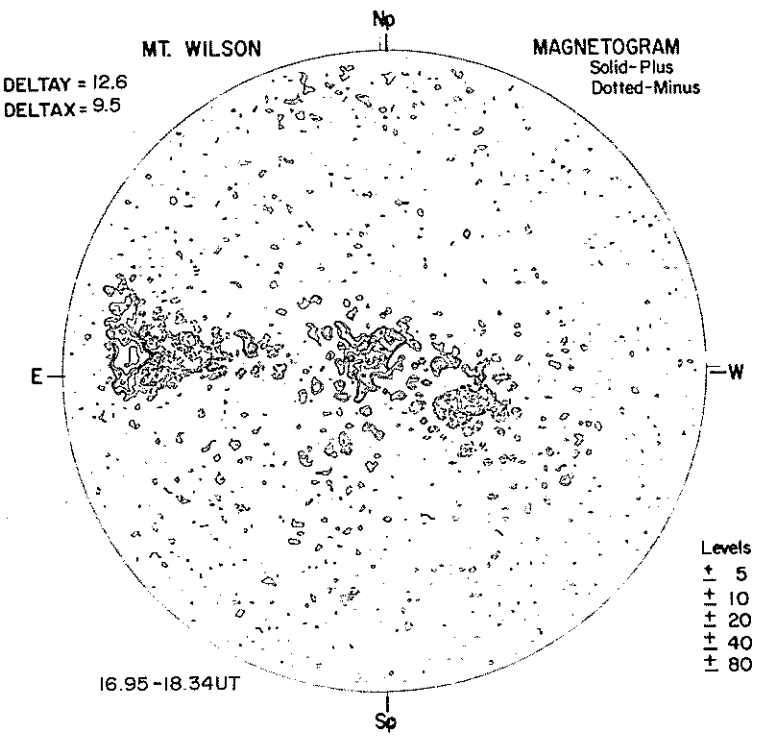


KITT PEAK

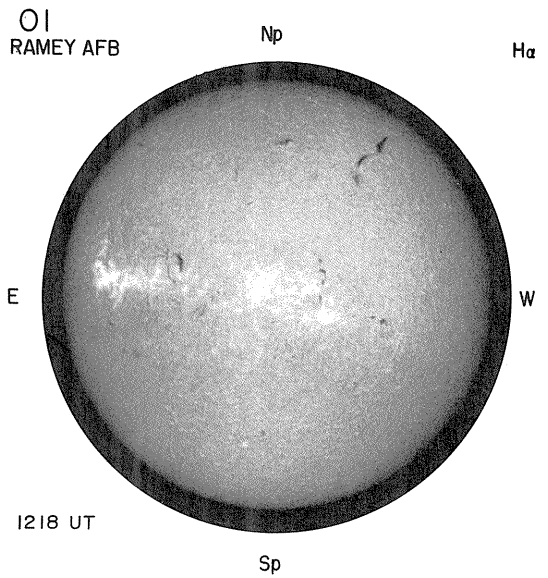
MAGNETOGRAM
Bright - Plus
Dark - Minus

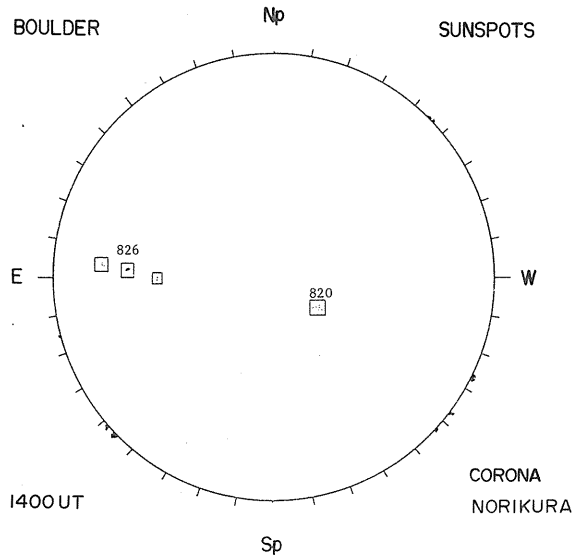


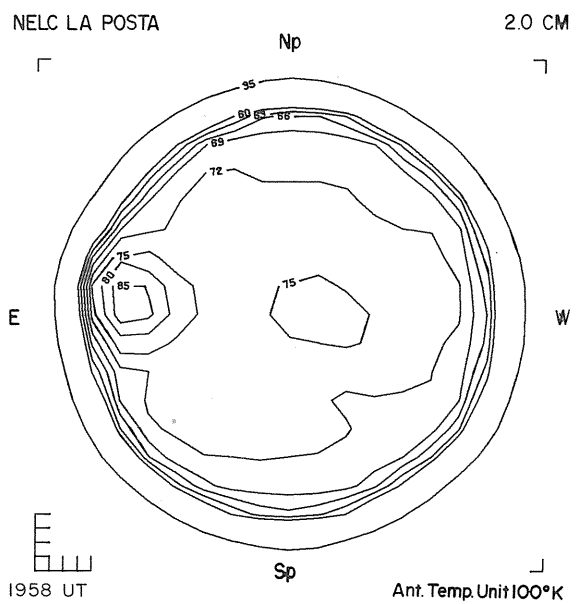


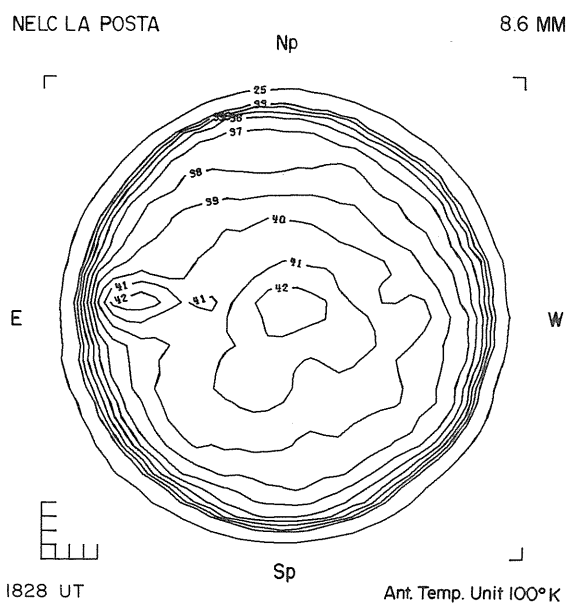
E— NO DATA SEPT. 1-22; 25-30 —W

Sp


01
RAMEY AFB
Np
Hα
E
W
1218 UT
Sp


BOULDER
Np
SUNSPOTS
826
820
E
W
1400 UT
CORONA
NORIKURA
Sp

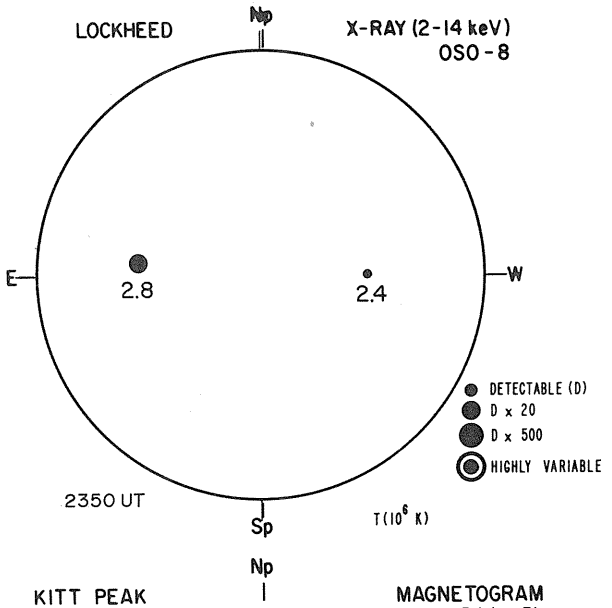

NELC LA POSTA
2.0 CM
Np
95
60
63
66
69
72
75
80
85
75
E
W
Sp
1958 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
25
39
96
97
98
99
40
41
42
41
42
E
W
Sp
1828 UT
Ant. Temp. Unit 100°K

SEPTEMBER 2, 1975 (P =21.20, B_o =7.20, L_o =304.28)

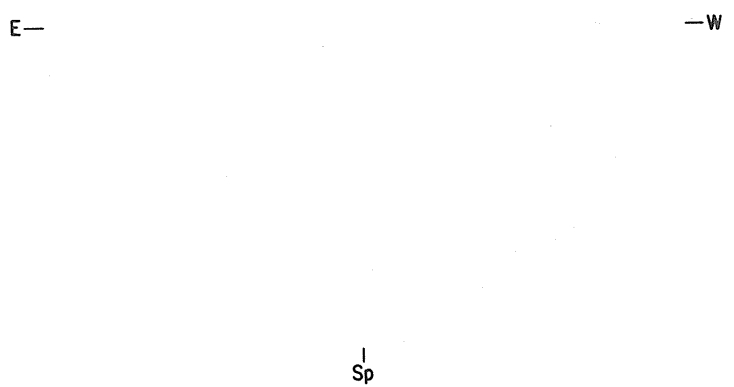
LOCKHEED

X-RAY (2-14 keV)
OSO-8



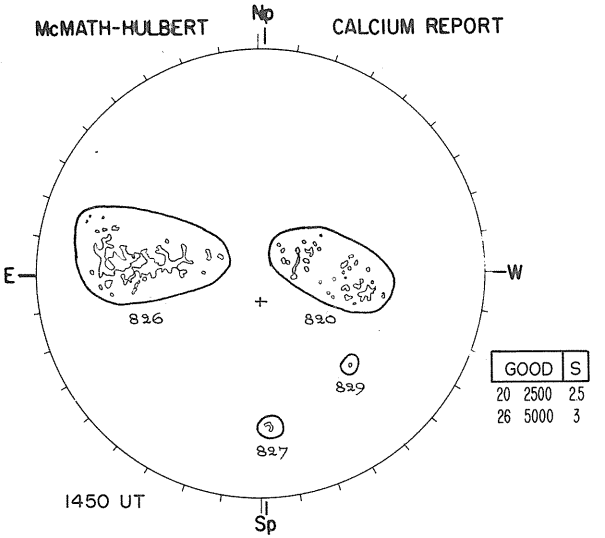
KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus



McMATH-HULBERT

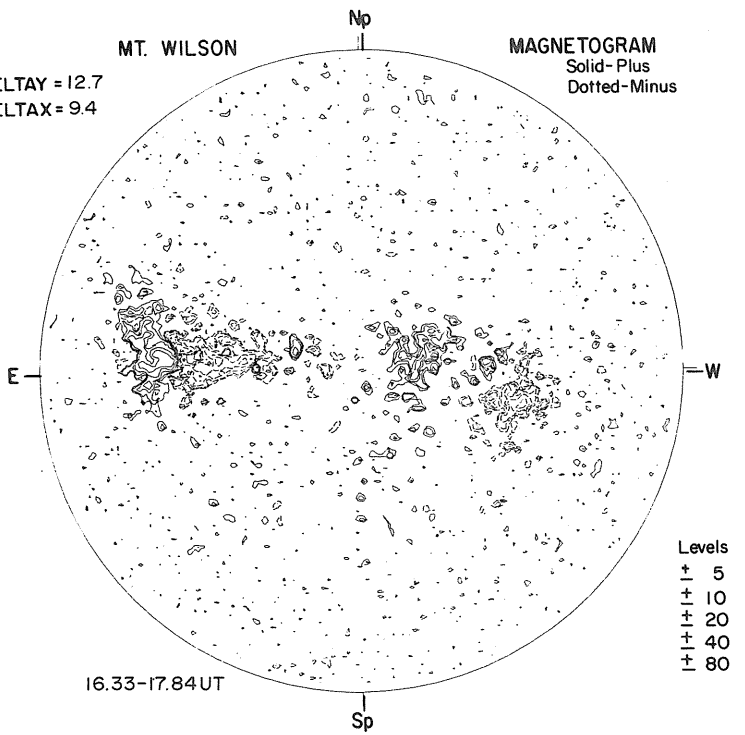
CALCIUM REPORT



MT. WILSON

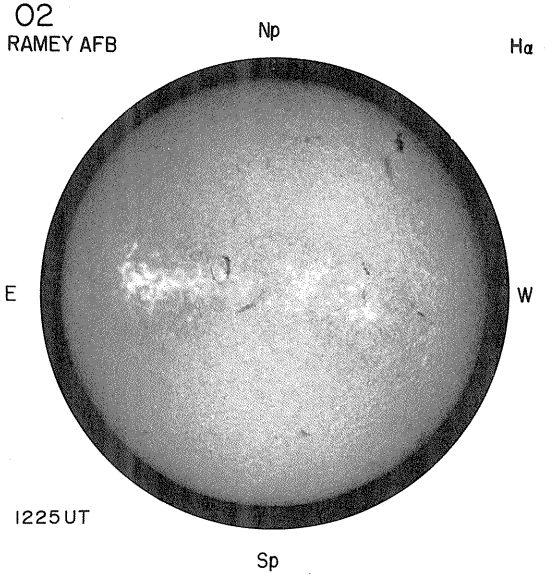
MAGNETOGRAM
Solid- Plus
Dotted-Minus

DELTAY = 12.7
DELTAX = 9.4

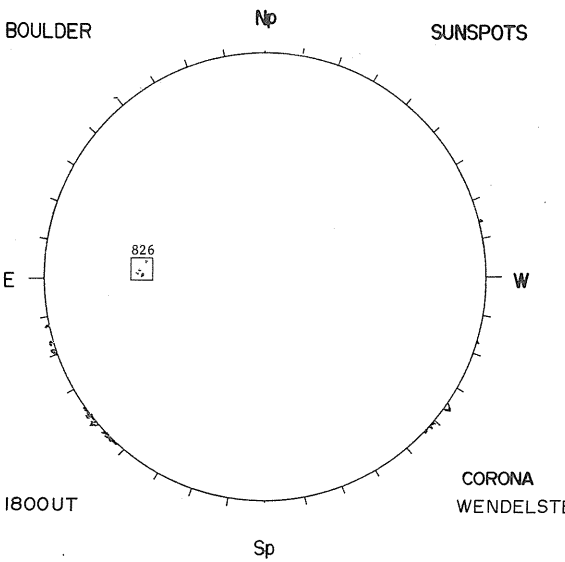


02

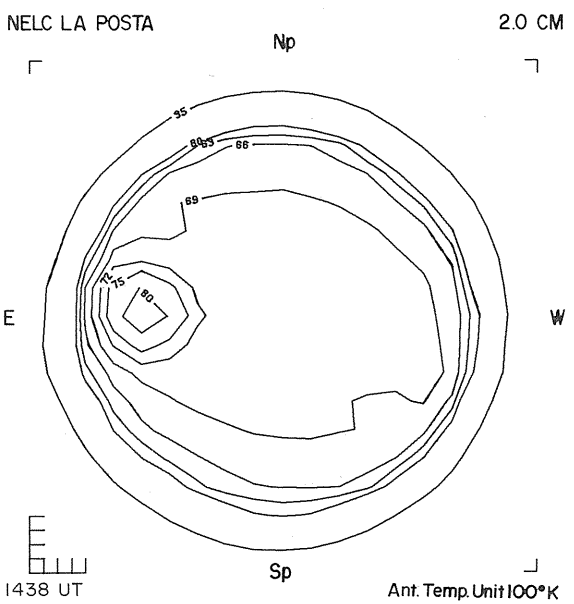
RAMEY AFB



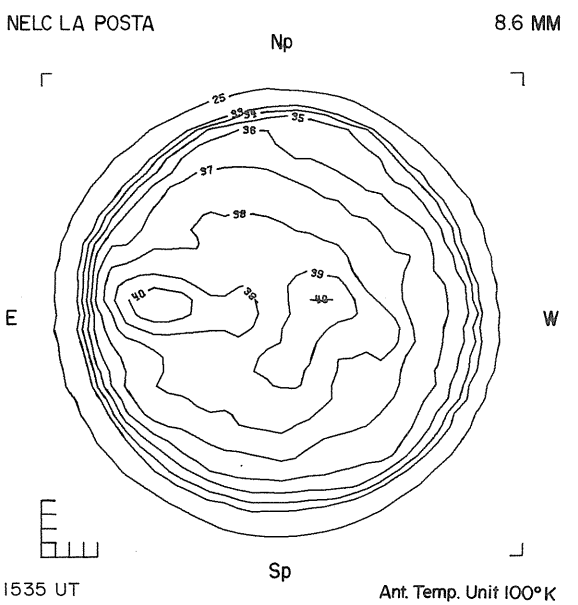
BOULDER



NELC LA POSTA



NELC LA POSTA



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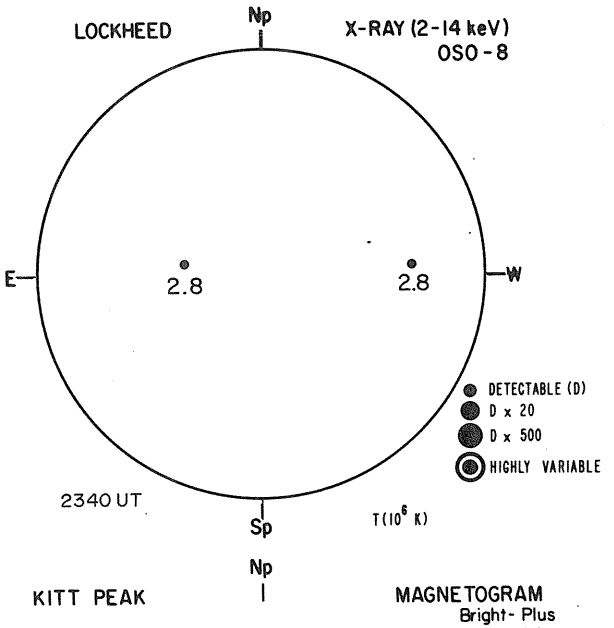
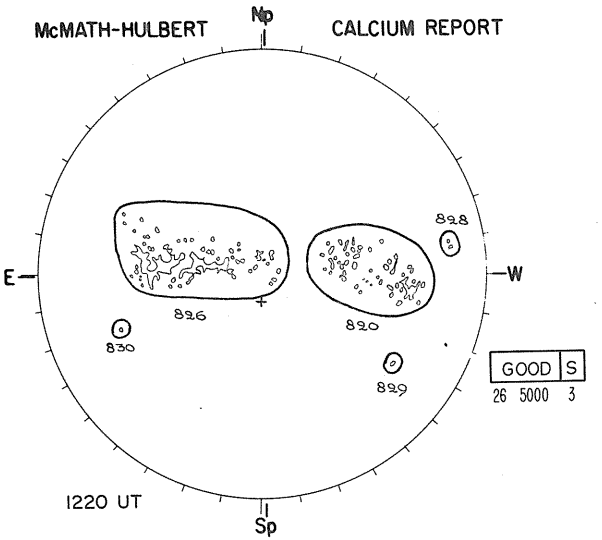
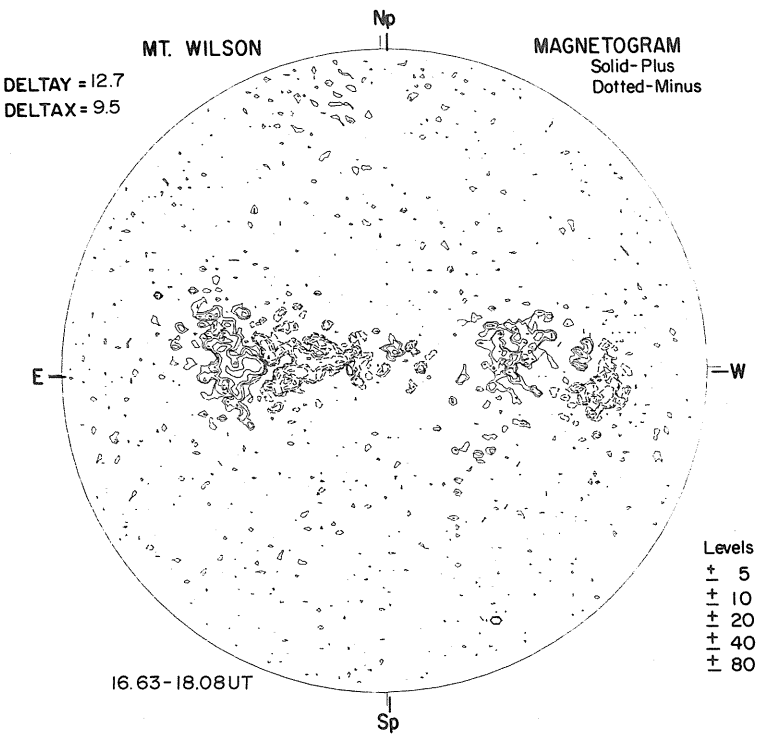


KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus



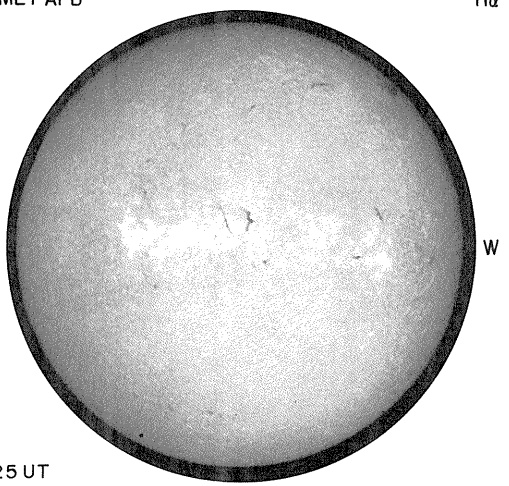


E— —W

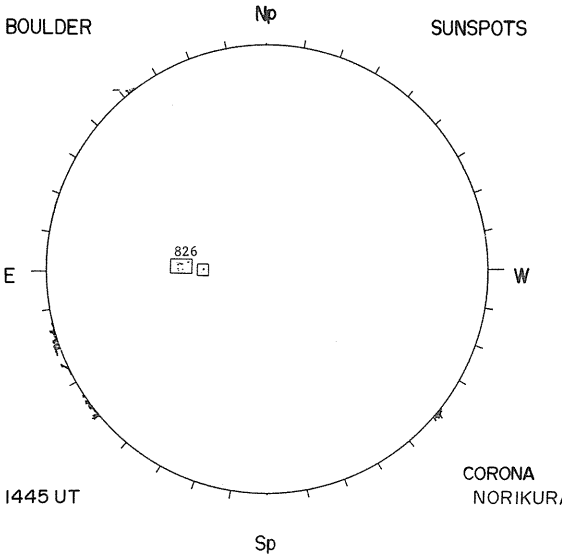
Sp

03

RAMEY AFB



BOULDER



NELC LA POSTA

Np

2.0 CM

NØ DATA

E

EQUIPMENT

W

Sp

---- UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

NØ DATA

E

CLØUDY

W

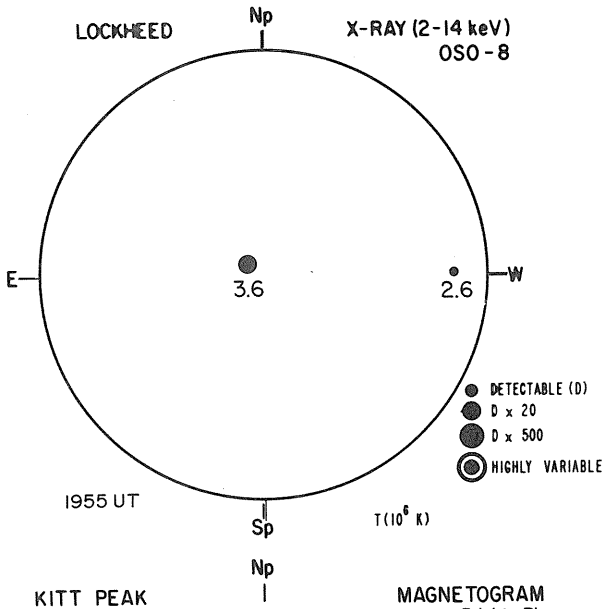
Sp

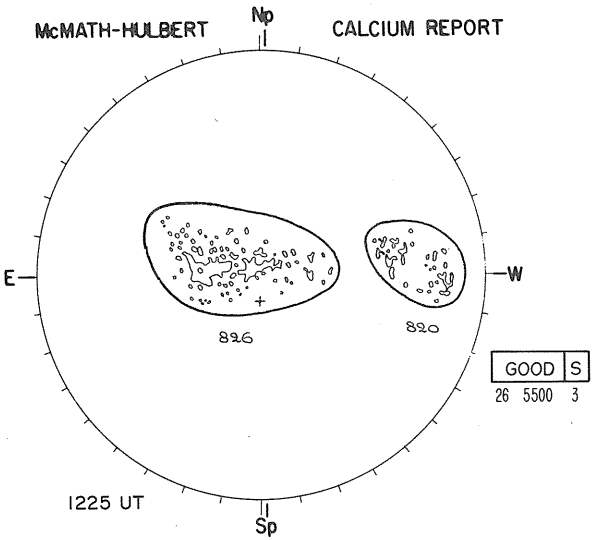
1738 UT

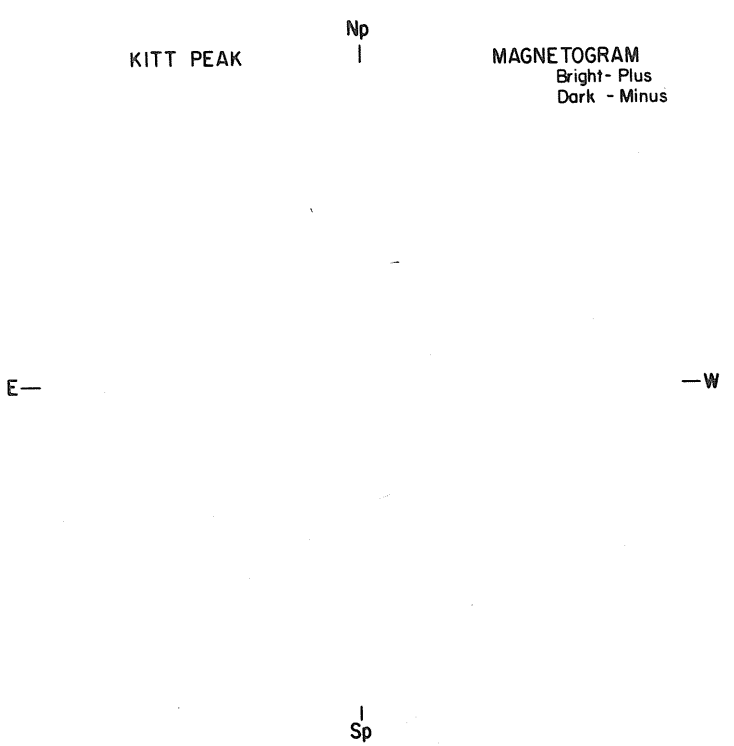
Ant. Temp. Unit 100°K

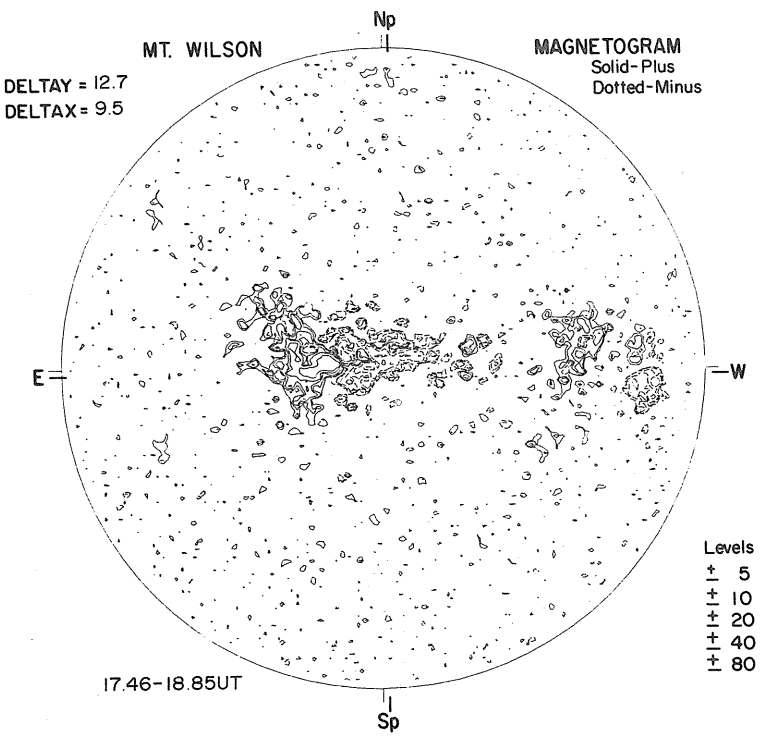
29 Sep 75

SEPTEMBER 4, 1975 (P =21.69, B_o =7.23, L_o =277.87)









04

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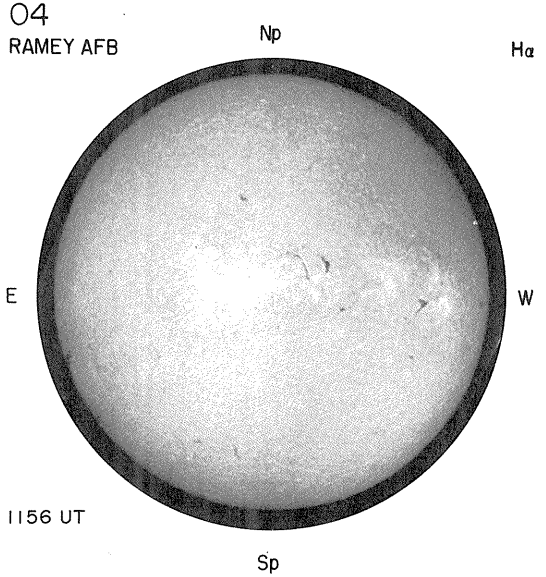
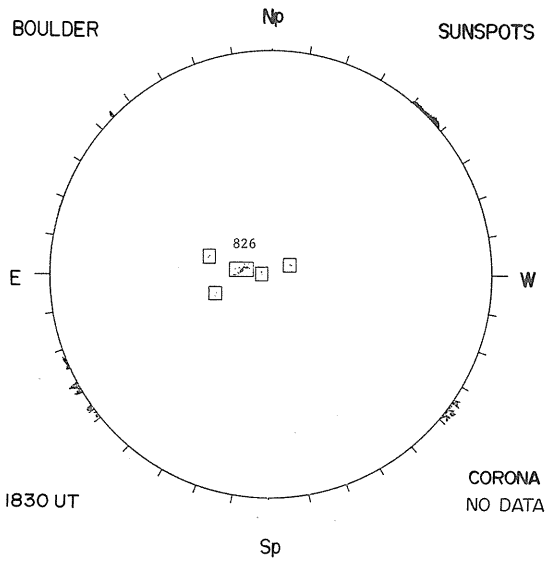


1156 UT

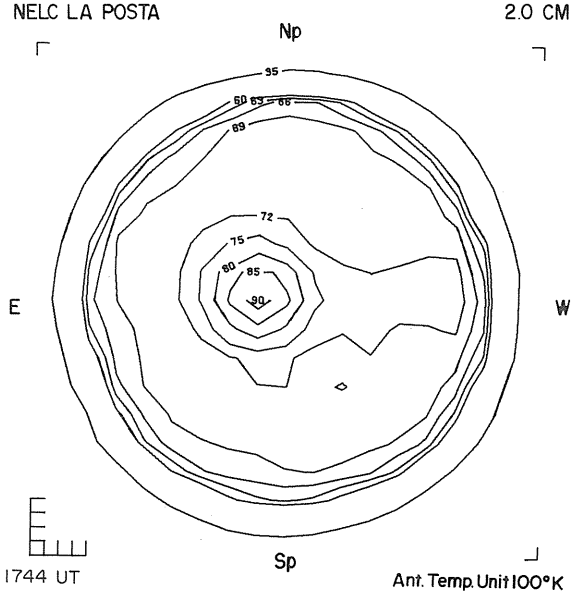
BOULDER



1830 UT

CORONA
NO DATA

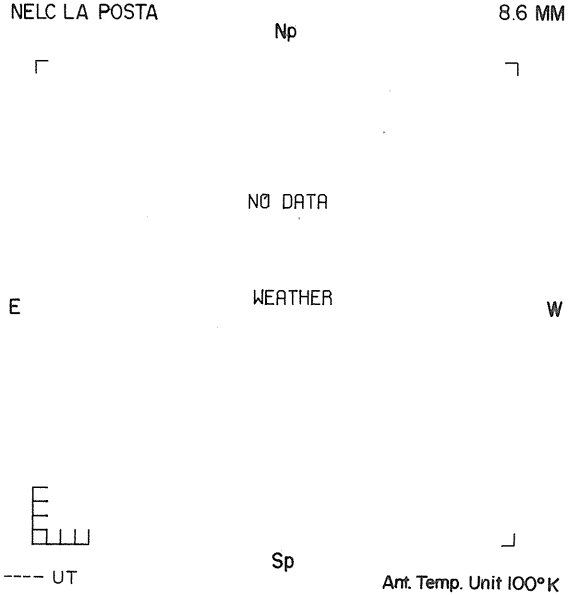
NELC LA POSTA



1744 UT

Ant. Temp. Unit 100°K

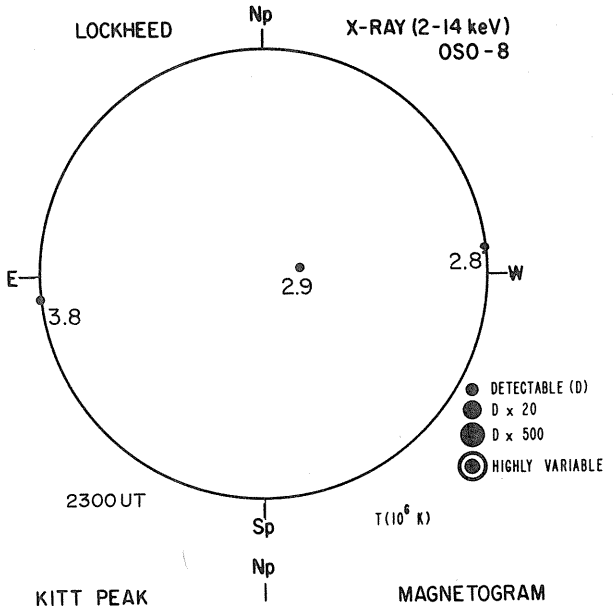
NELC LA POSTA



---- UT

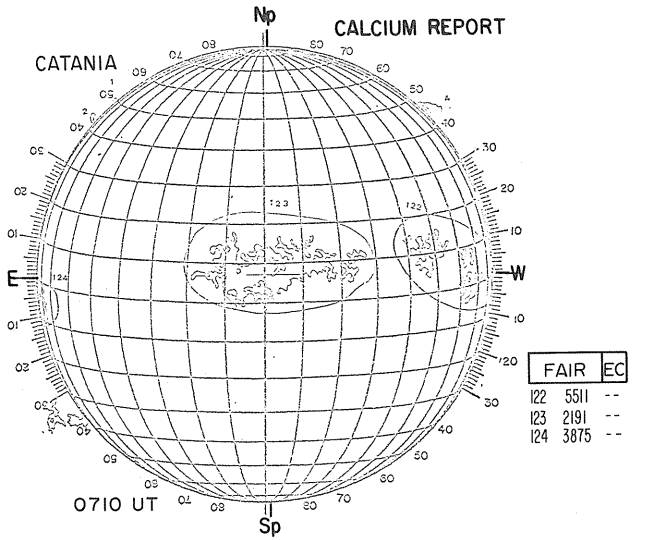
Ant. Temp. Unit 100°K

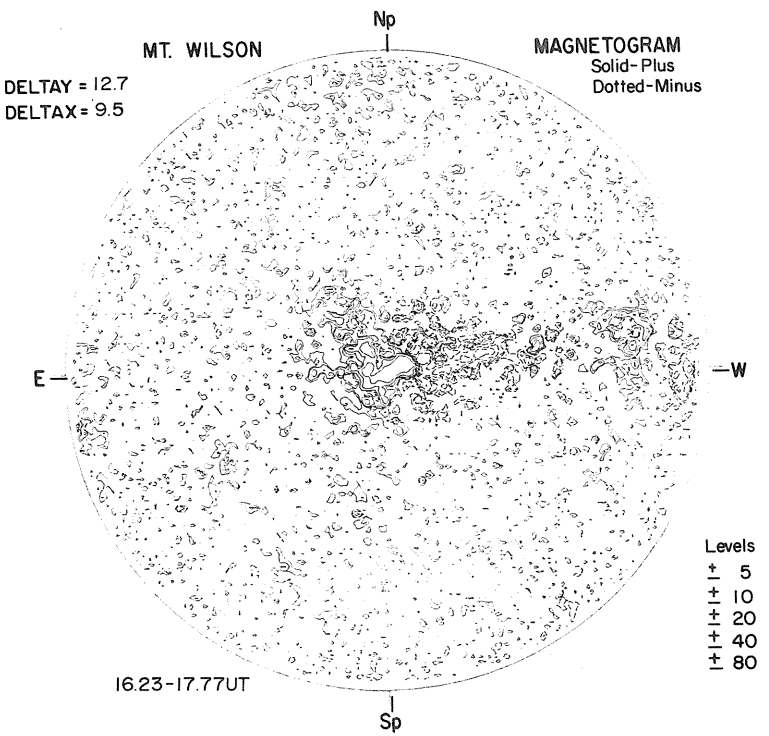
SEPTEMBER 5, 1975 (P = 21.93, B_0 = 7.24, L_0 = 264.66)



KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus



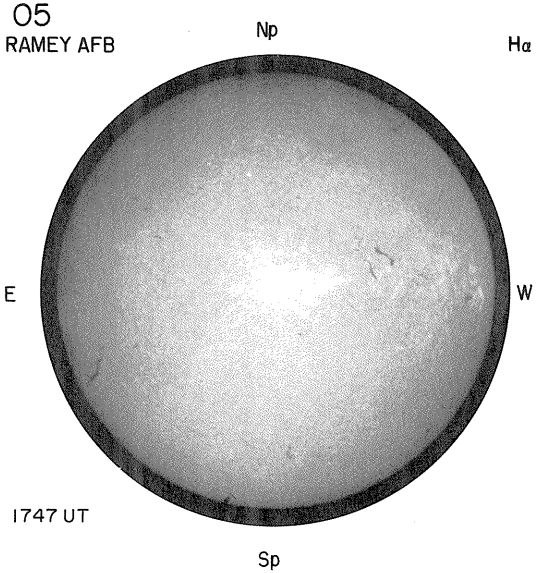


E— —W

Sp

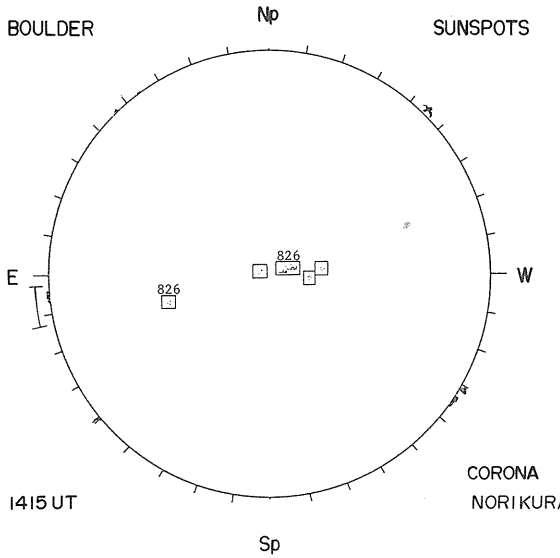
05

RAMEY AFB



1747 UT

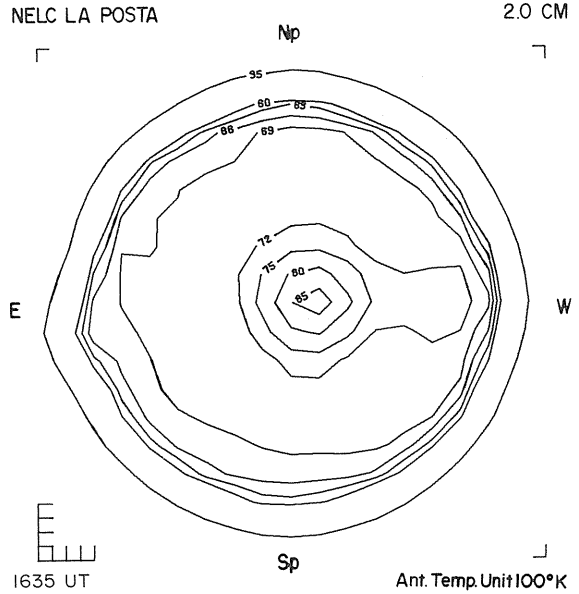
BOULDER



1415 UT

NELC LA POSTA

2.0 CM

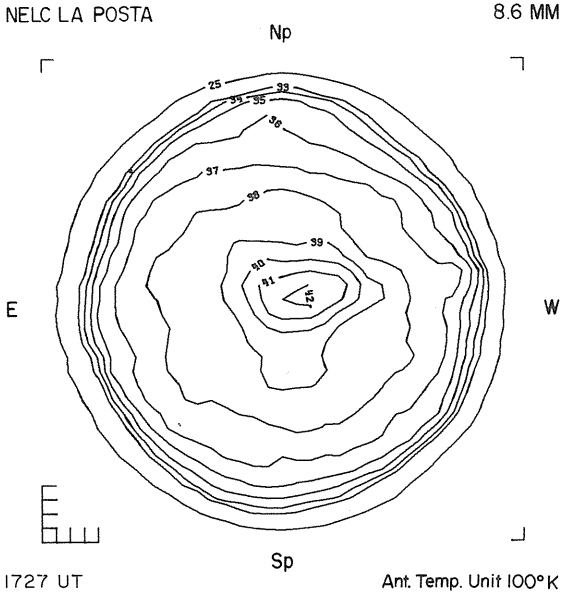


1635 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

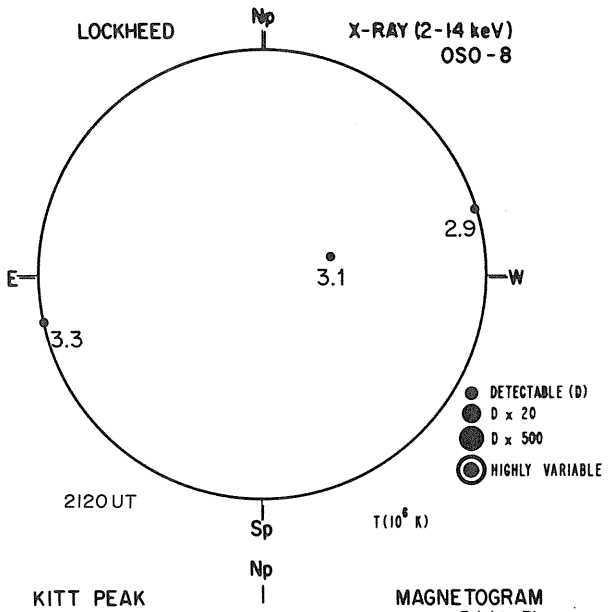
8.6 MM



1727 UT

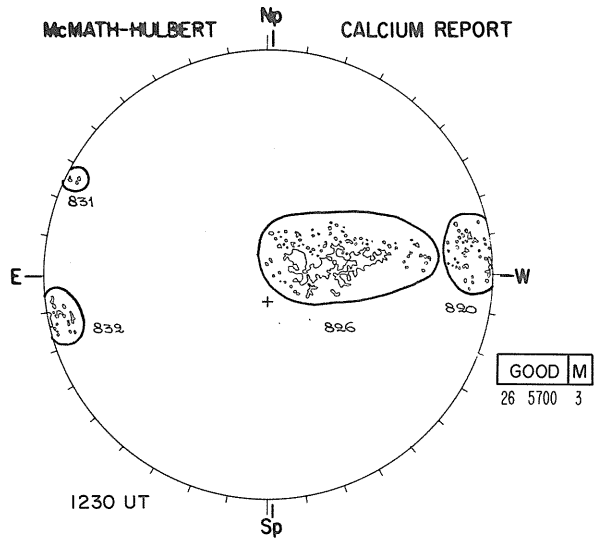
Ant. Temp. Unit 100°K

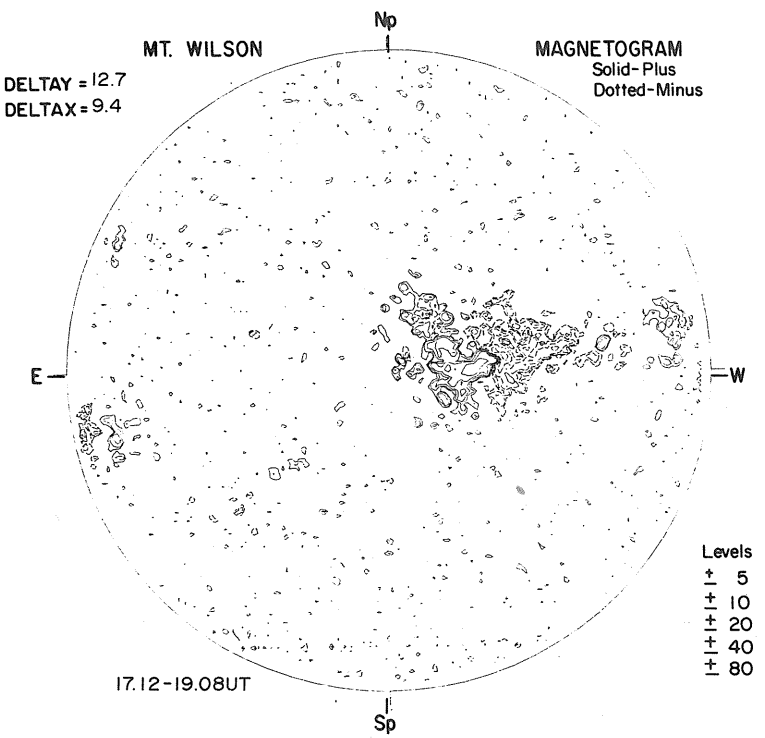
SEPTEMBER 6, 1975 (P=22.16, B_o=7.24, L_o=251.45)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus

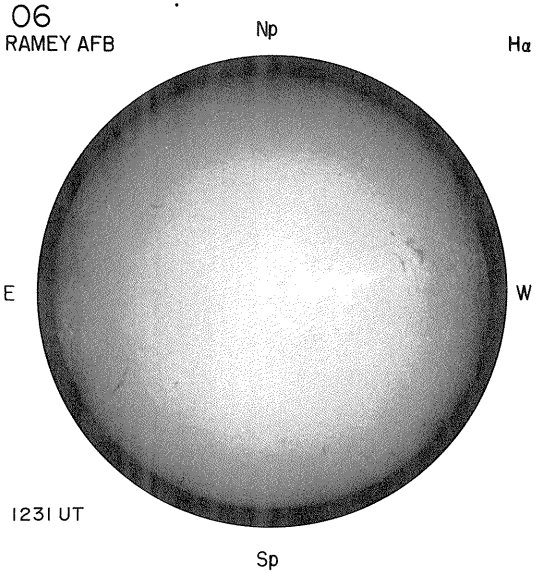




E— —W

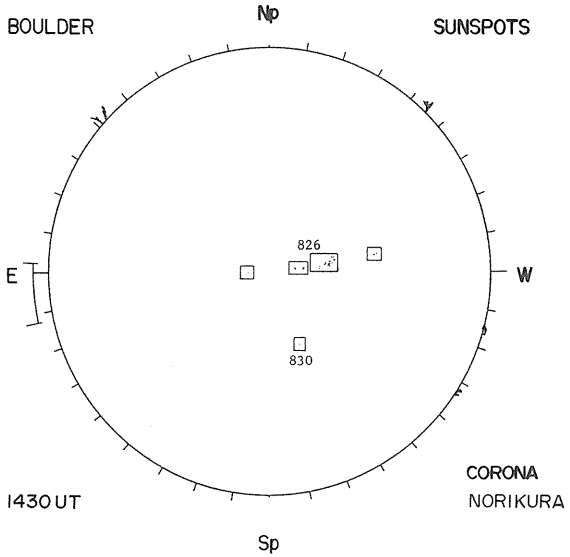
Sp

06
RAMEY AFB



1231 UT

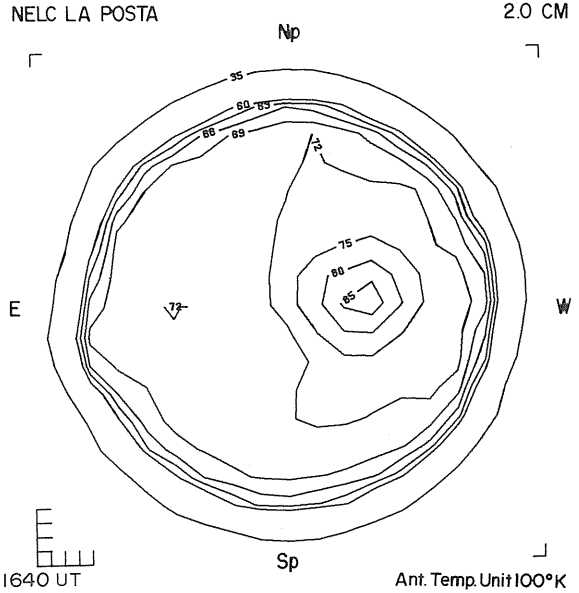
BOULDER



CORONA
NORIKURA

1430 UT

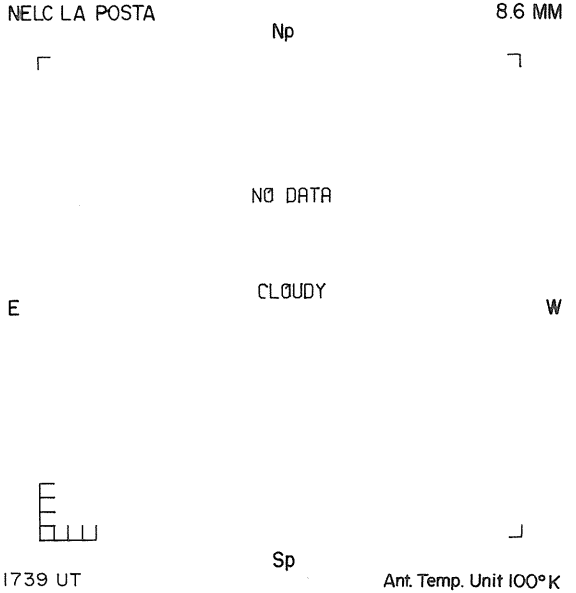
NELC LA POSTA



1640 UT

Ant. Temp. Unit 100°K

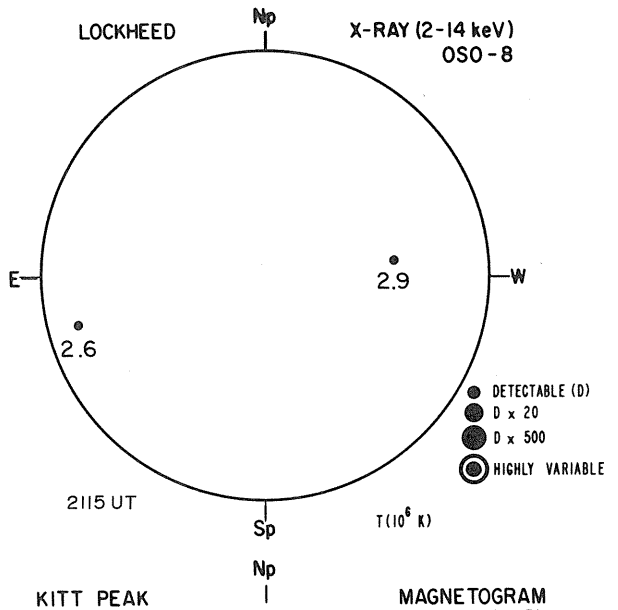
NELC LA POSTA



1739 UT

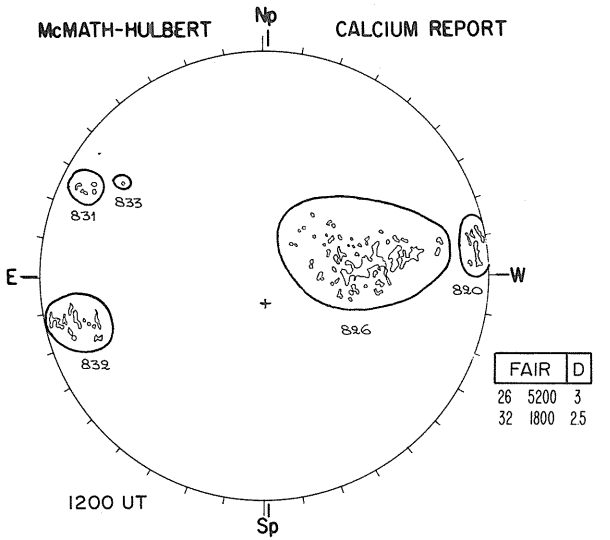
Ant. Temp. Unit 100°K

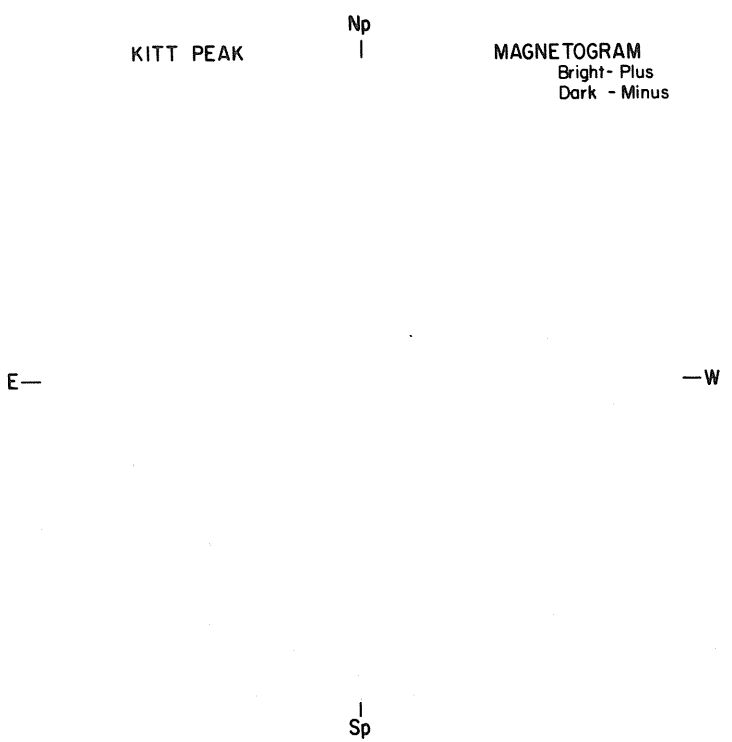
SEPTEMBER 7, 1975 (P =22.39, B_o =7.25, L_o =238.25)

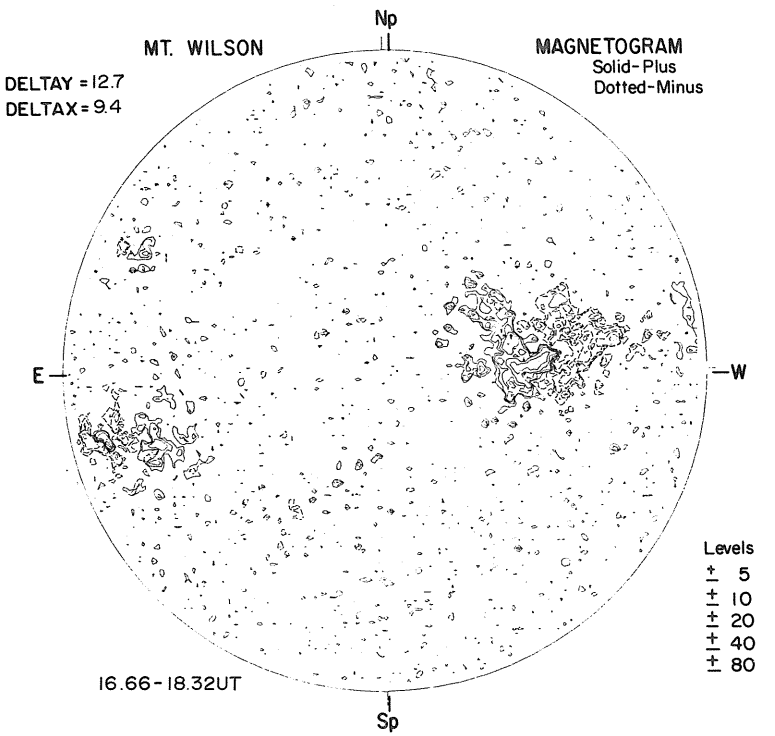


KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus

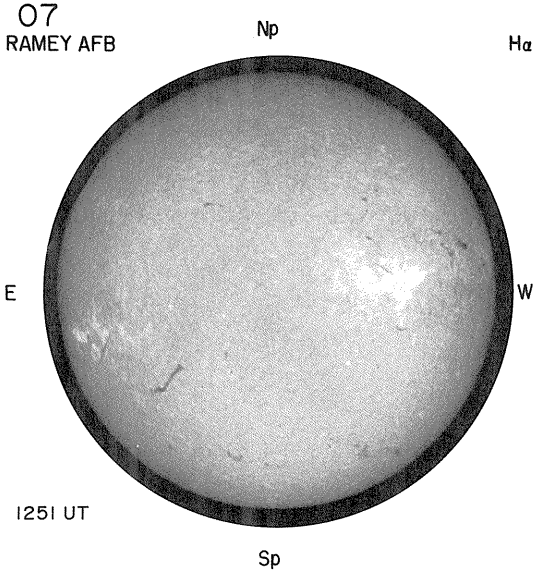






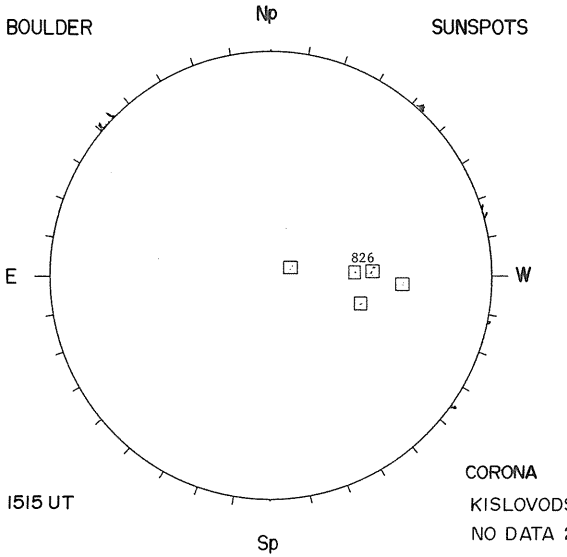
07

RAMEY AFB



1251 UT

BOULDER



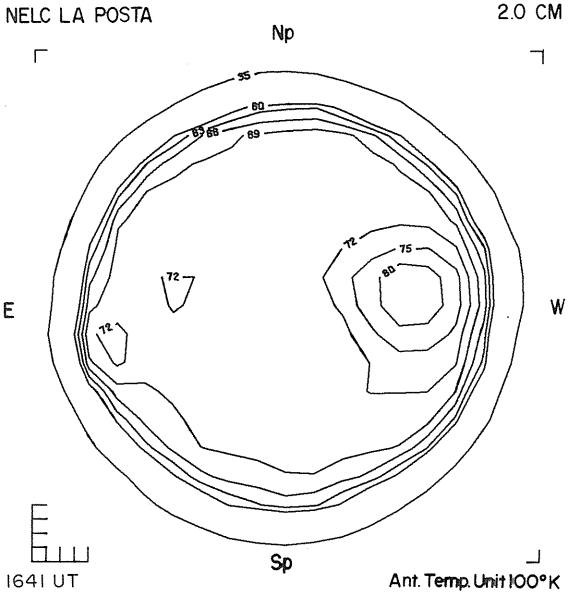
1515 UT

CORONA

KISLOVODSK

NO DATA 295°-300°,
310°-355°

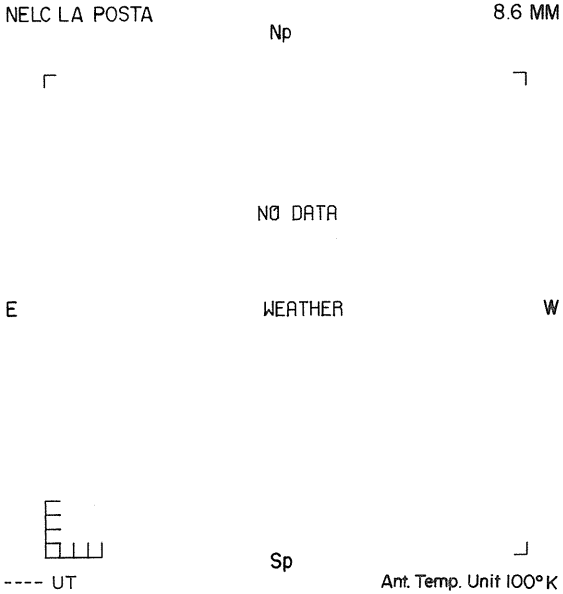
NELC LA POSTA



1641 UT

Ant. Temp. Unit 100°K

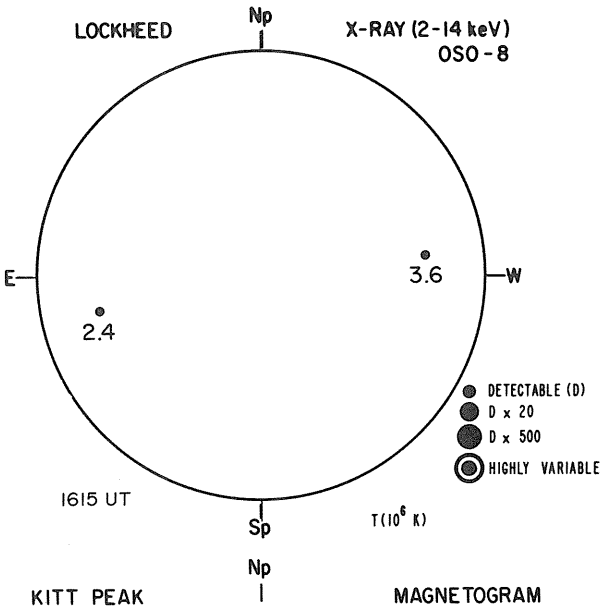
NELC LA POSTA



---- UT

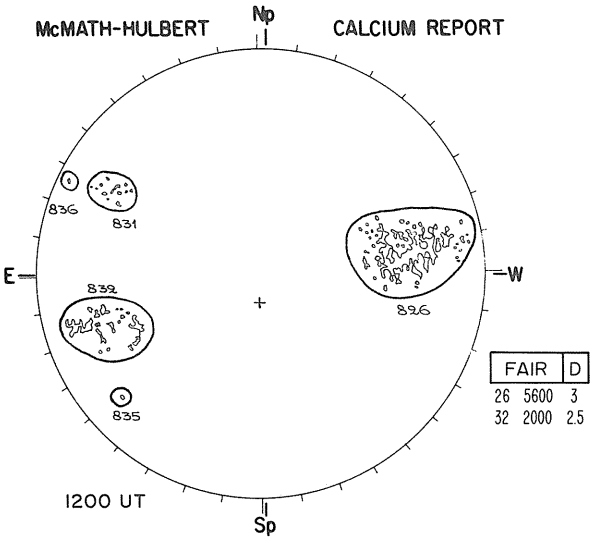
Ant. Temp. Unit 100°K

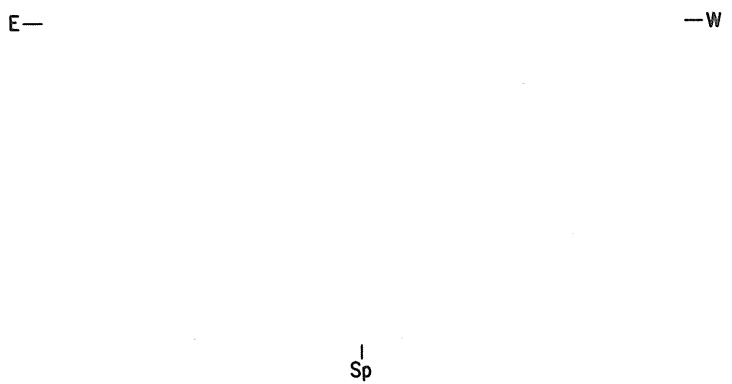
SEPTEMBER 8, 1975 (P =22.61, B_0 =7.25, L_0 =225.04)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus

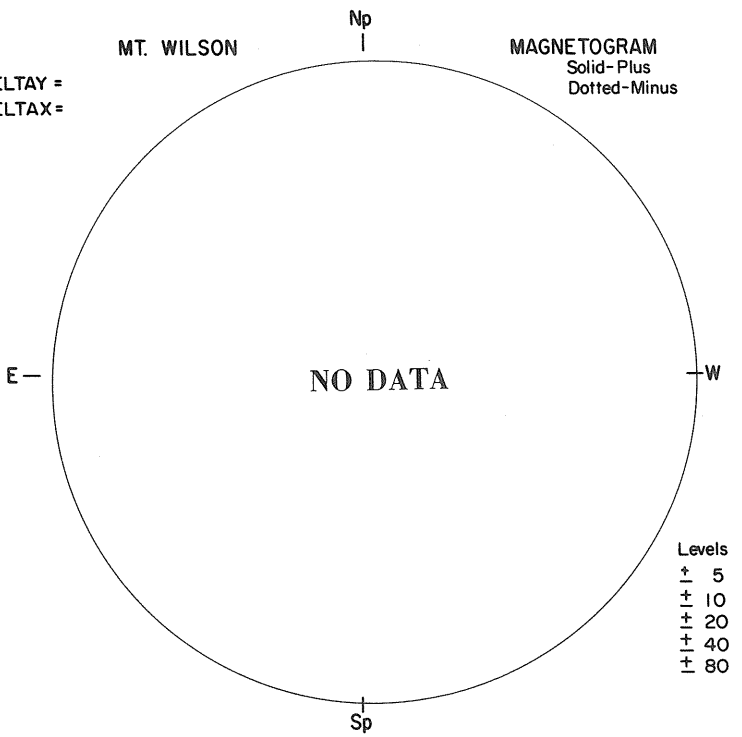




MT. WILSON

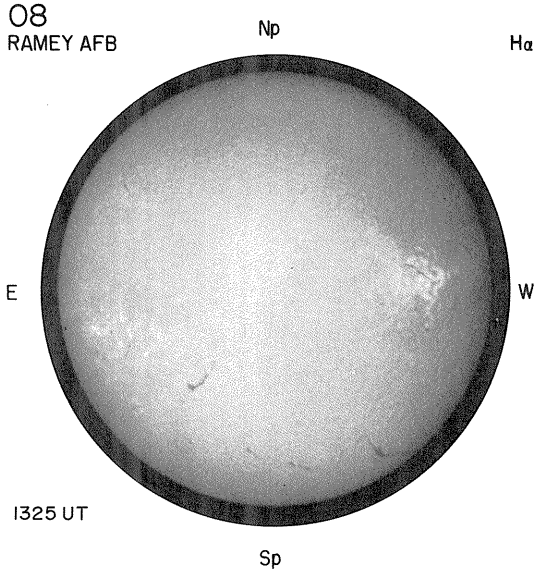
MAGNETOGRAM
Solid-Plus
Dotted-Minus

DELTAY =
DELTAX =

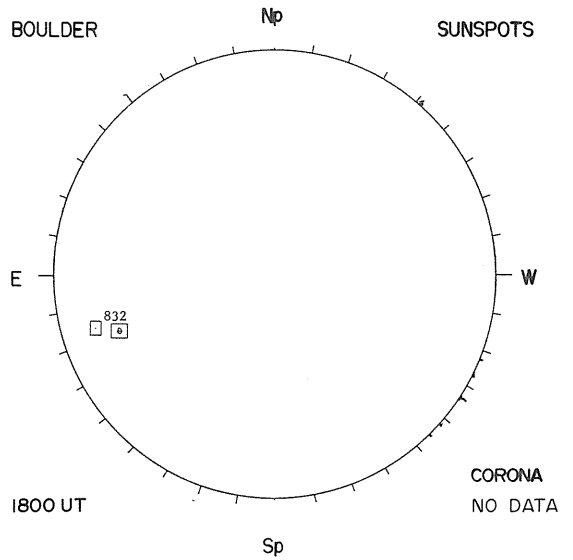


08

RAMEY AFB



BOULDER



NELC LA POSTA

Np

2.0 CM

NO DATA

E

EQUIPMENT

W

---- UT

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

NO DATA

E

WEATHER

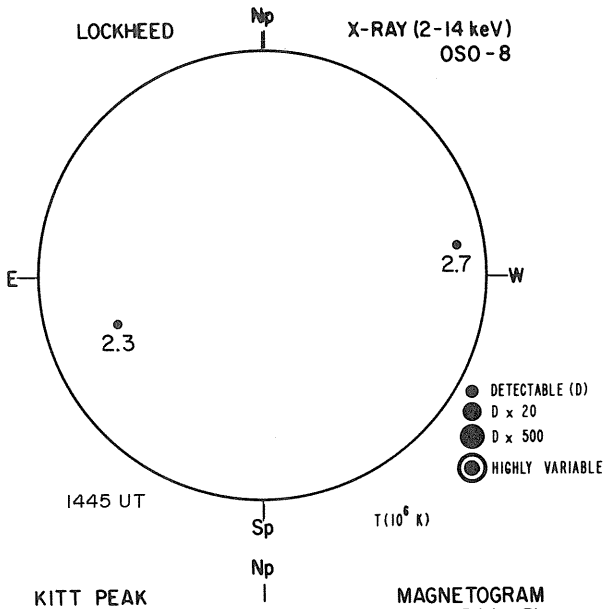
W

---- UT

Sp

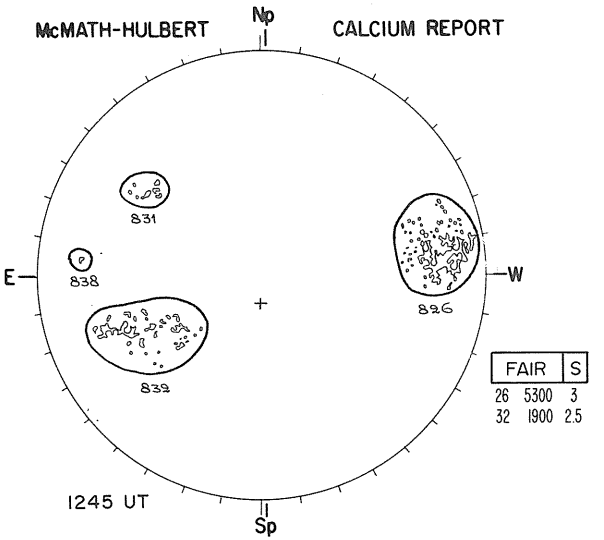
Ant. Temp. Unit 100°K

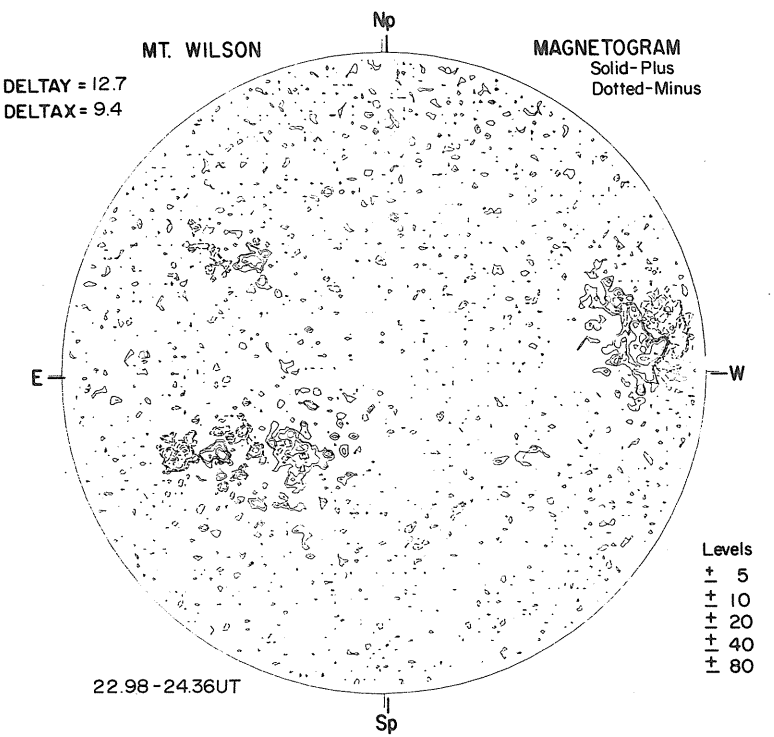
SEPTEMBER 9, 1975 (P = 22.83, B_o = 7.25, L_o = 211.84)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus

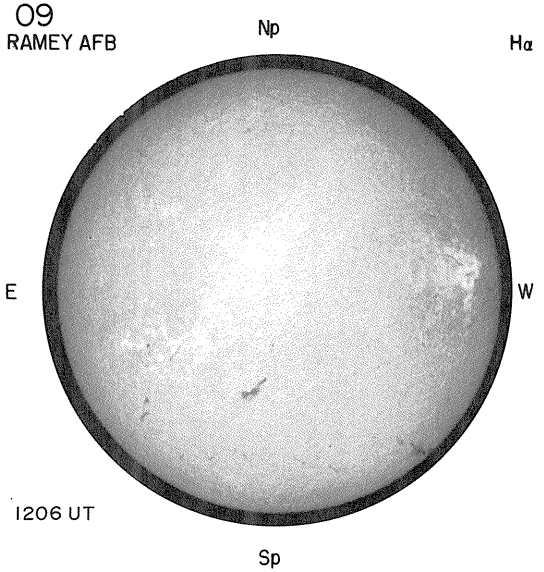




E— —W

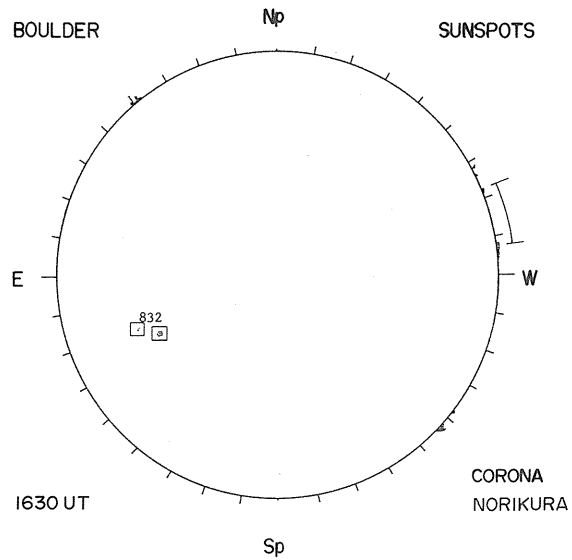
Sp

09
RAMEY AFB



1206 UT

BOULDER



1630 UT

CORONA
NORIKURA

NELC LA POSTA

Np

2.0 CM

NØ DATA

E

EQUIPMENT

W

Sp

---- UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

NØ DATA

E

EQUIPMENT

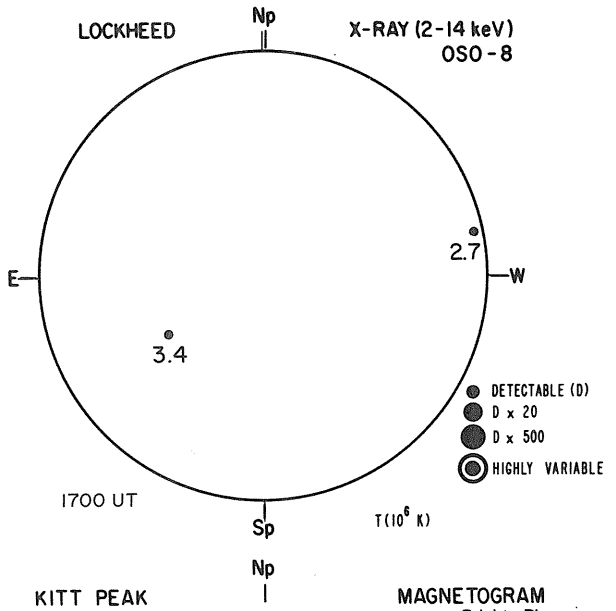
W

Sp

---- UT

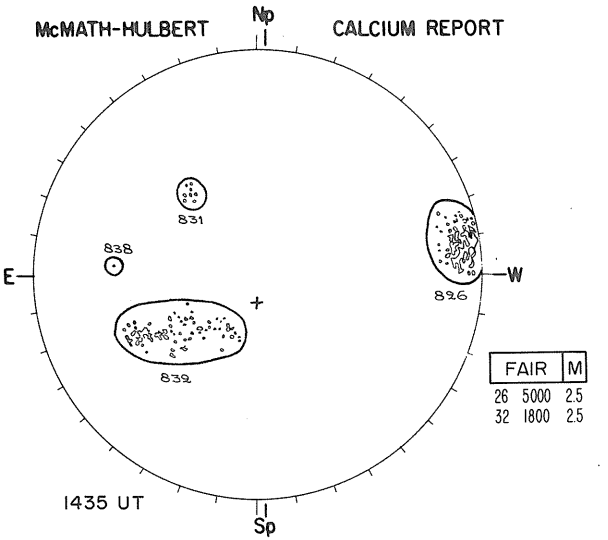
Ant. Temp. Unit 100°K

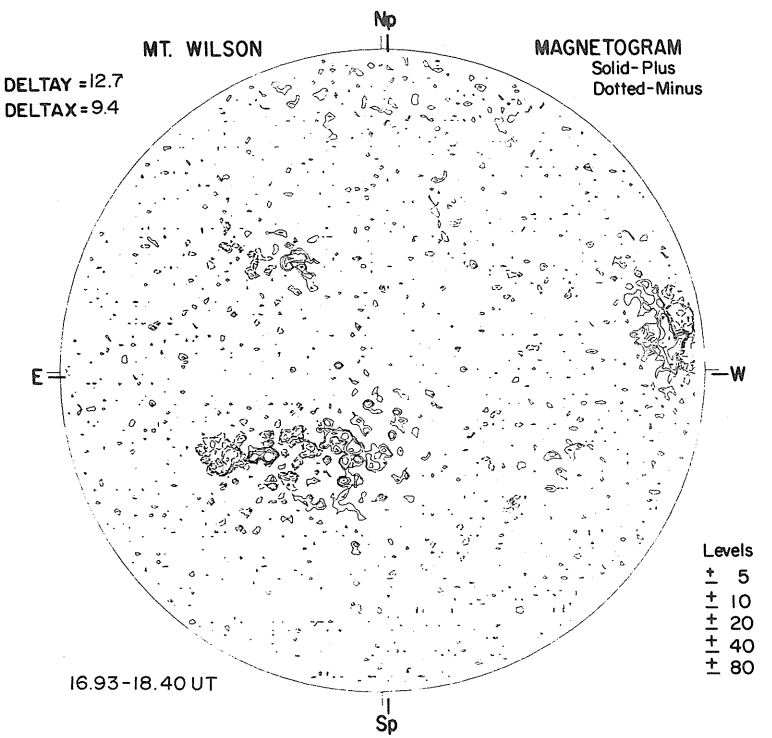
SEPTEMBER 10, 1975 (P =23.04, B_0 =7.25, L_0 =198.63)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus



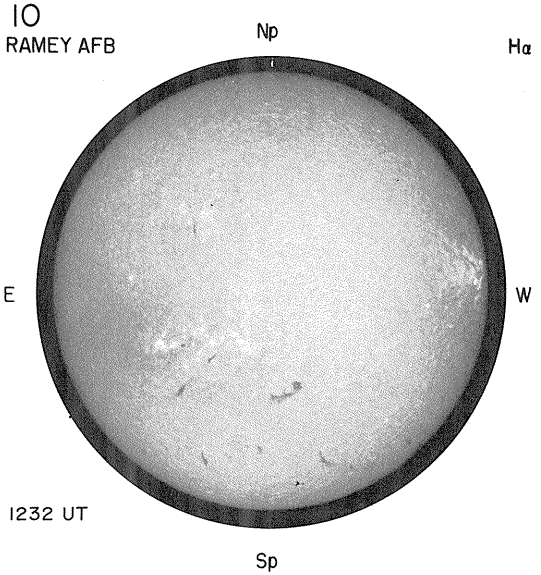


E— —W

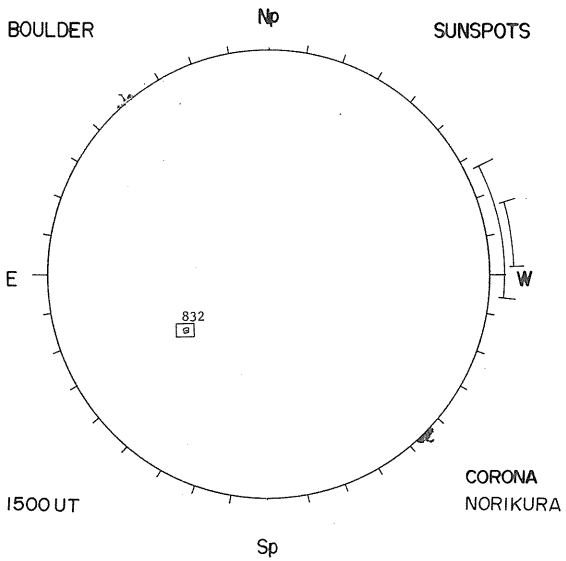
Sp

10

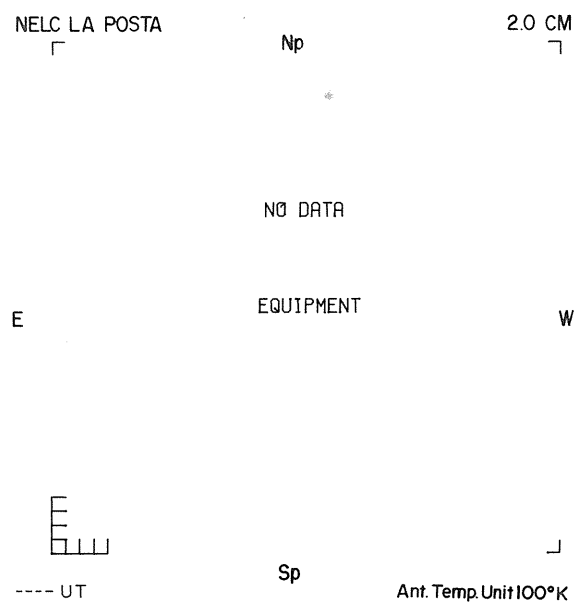
RAMEY AFB



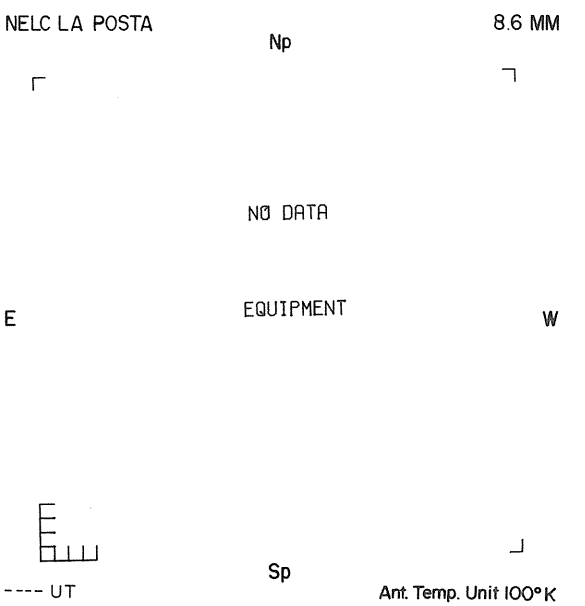
BOULDER



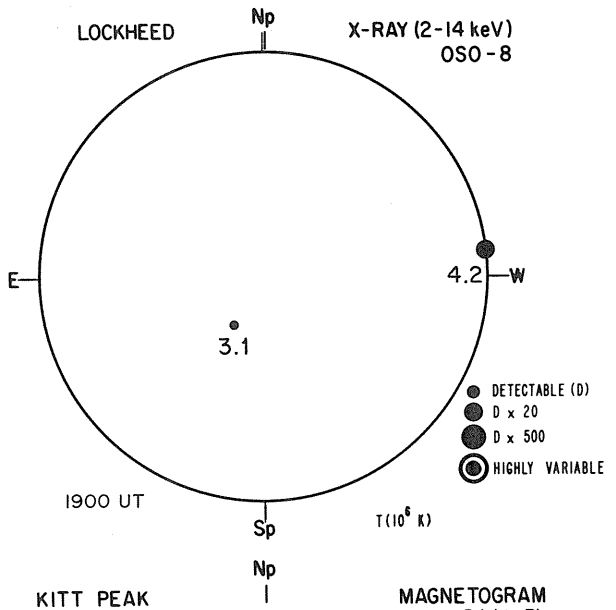
NELC LA POSTA

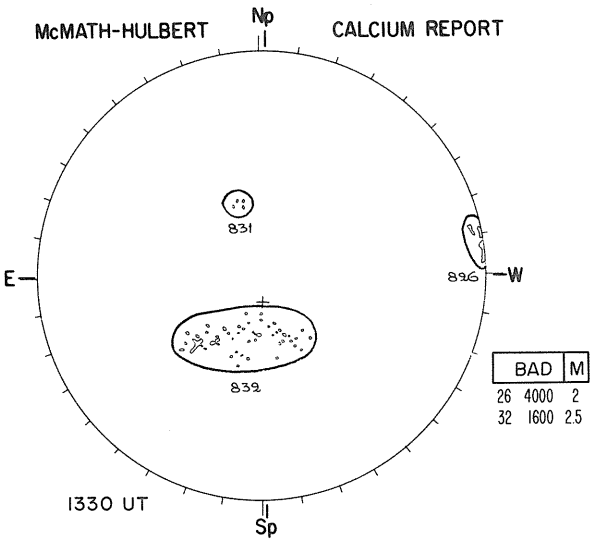


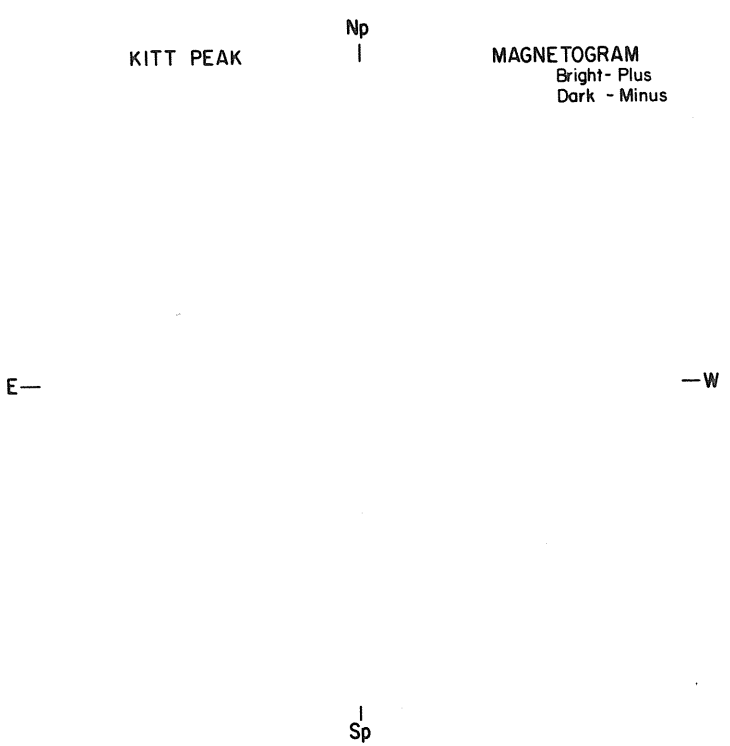
NELC LA POSTA

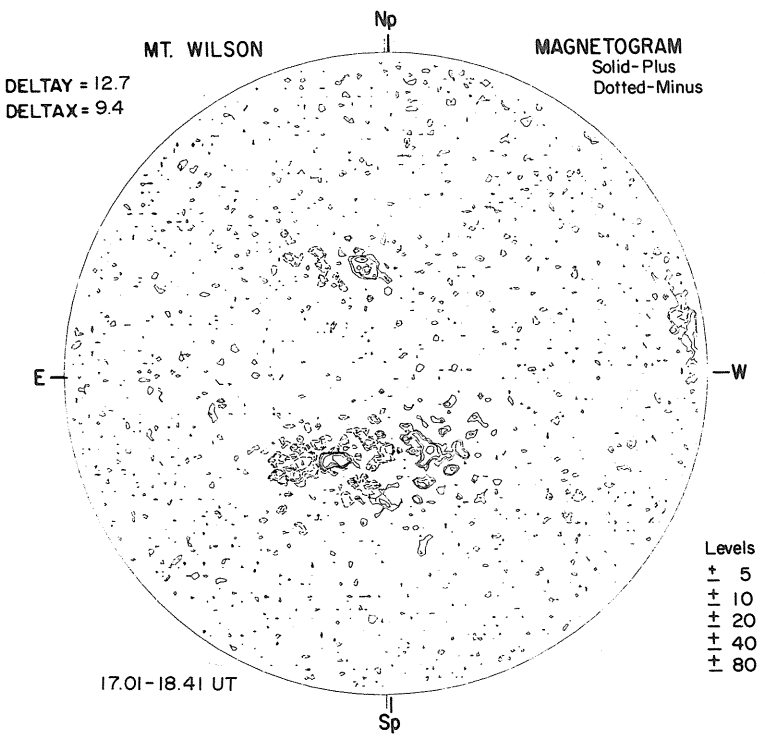


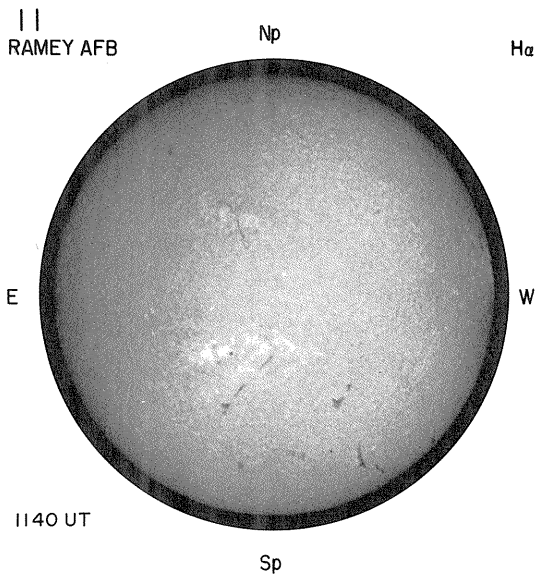
SEPTEMBER 11, 1975 (P =23.24, B_o =7.24, L_o =185.43)

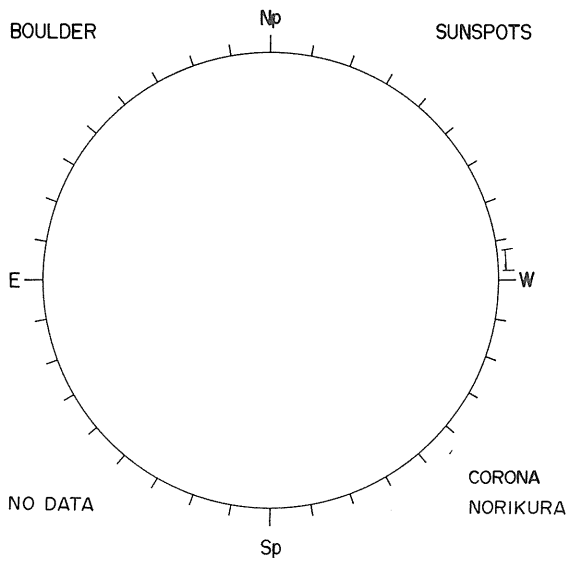


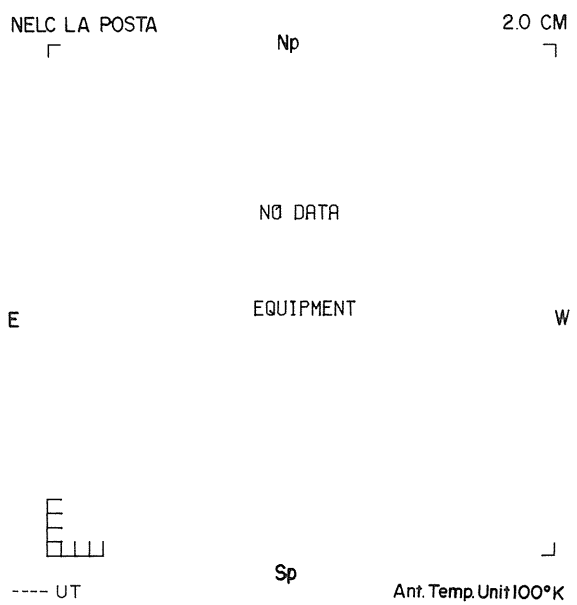


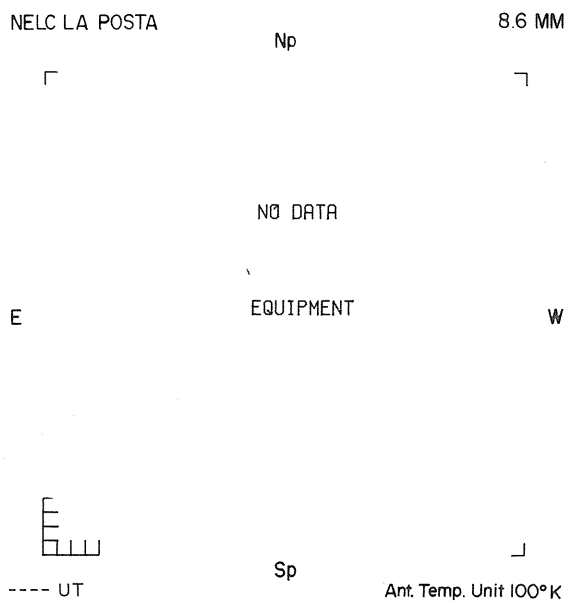




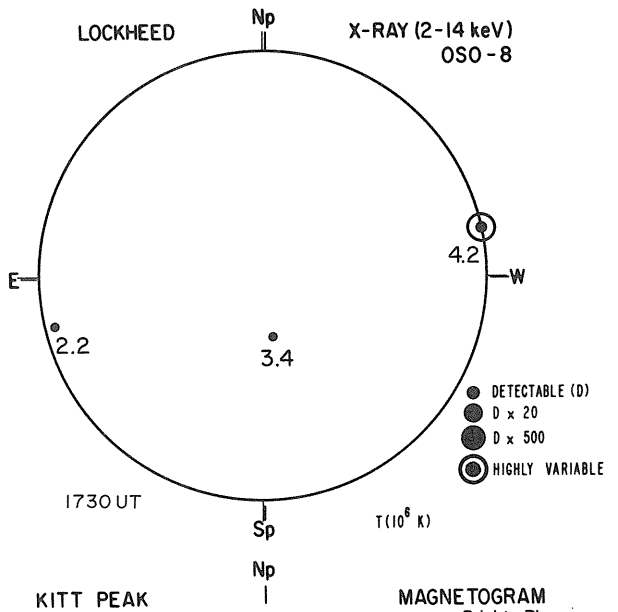

RAMEY AFB
Np
Hα
E
W
1140 UT
Sp


BOULDER
Np
SUNSPOTS
E
W
NO DATA
CORONA
NORIKURA
Sp


NELC LA POSTA
Np
2.0 CM
NØ DATA
E
EQUIPMENT
W
Sp
---- UT
Ant. Temp. Unit 100°K

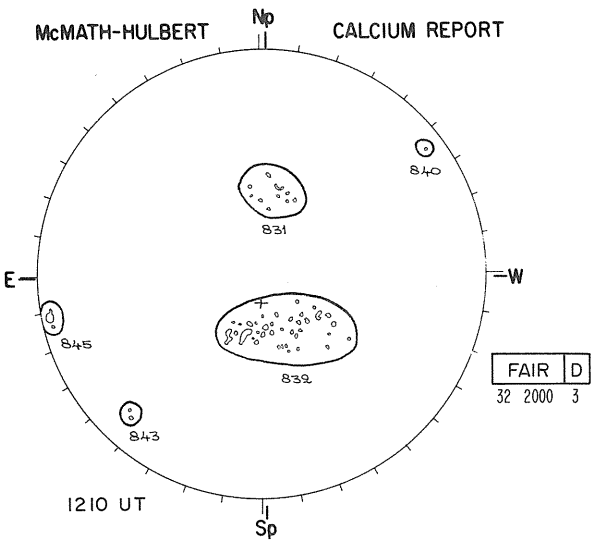

NELC LA POSTA
Np
8.6 MM
NØ DATA
E
EQUIPMENT
W
Sp
---- UT
Ant. Temp. Unit 100°K

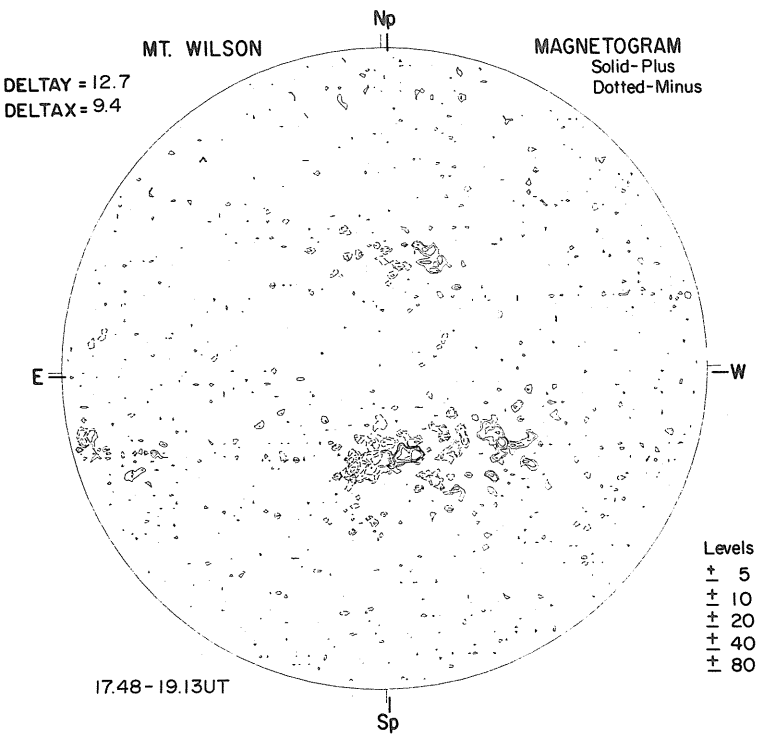
SEPTEMBER 12, 1975 (P =23.44, B_o =7.24, L_o =172.22)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus

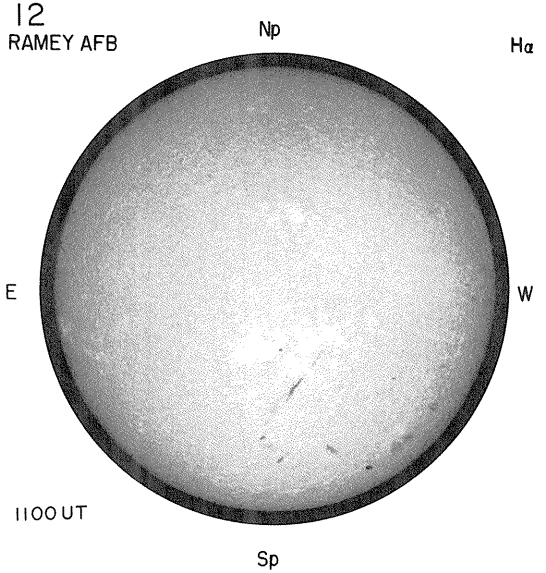




E— —W

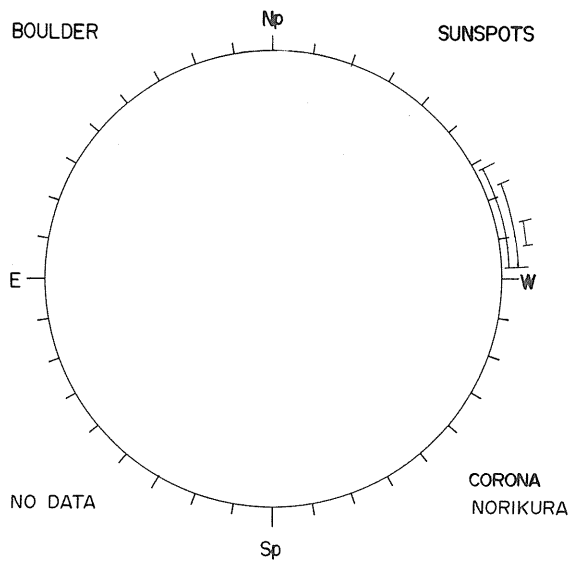
Sp

12
RAMEY AFB



1100 UT

BOULDER

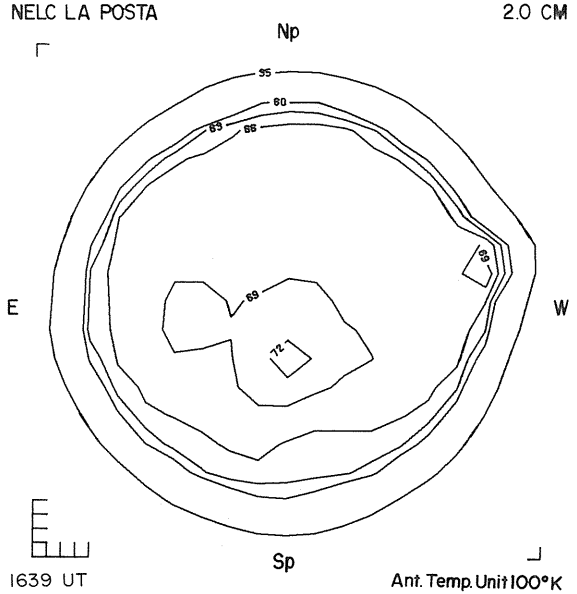


NO DATA

CORONA
NORIKURA

NELC LA POSTA

2.0 CM

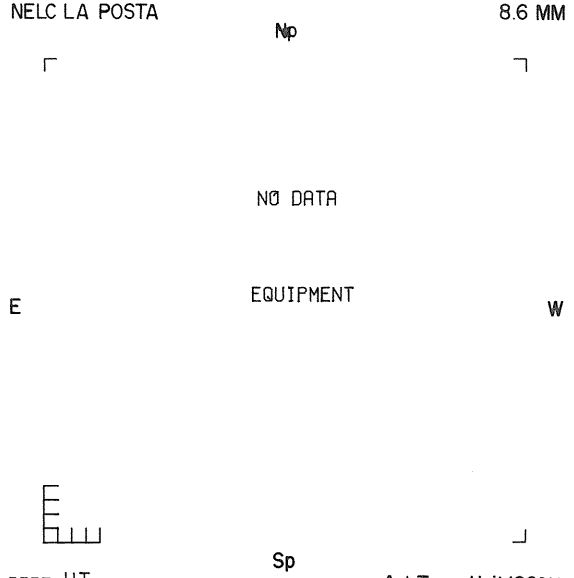


1639 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

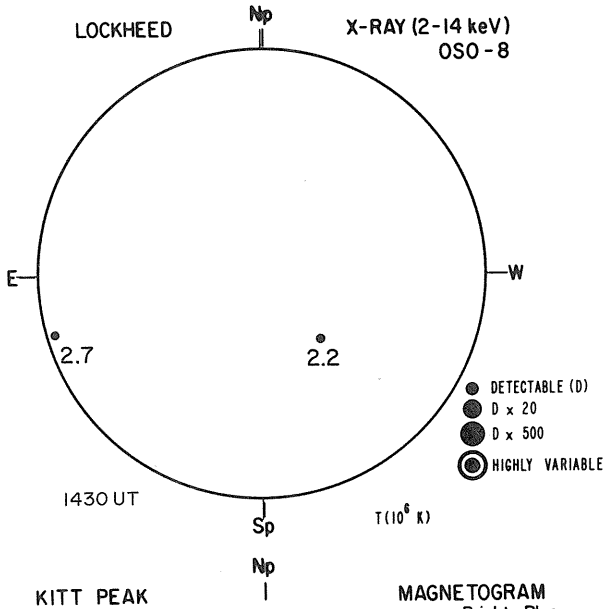
8.6 MM



---- UT

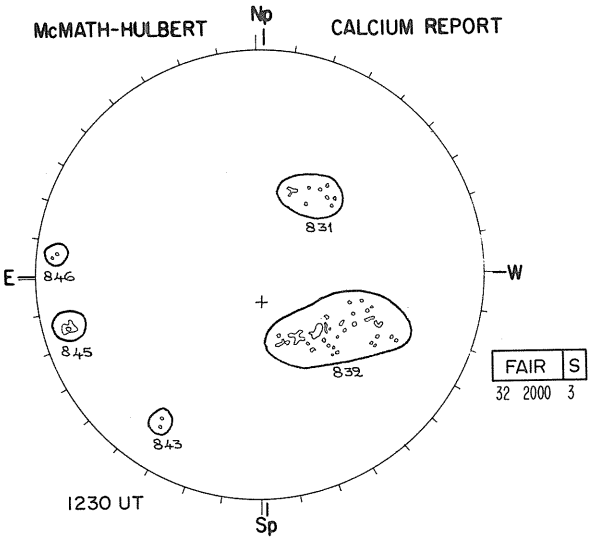
Ant. Temp. Unit 100°K

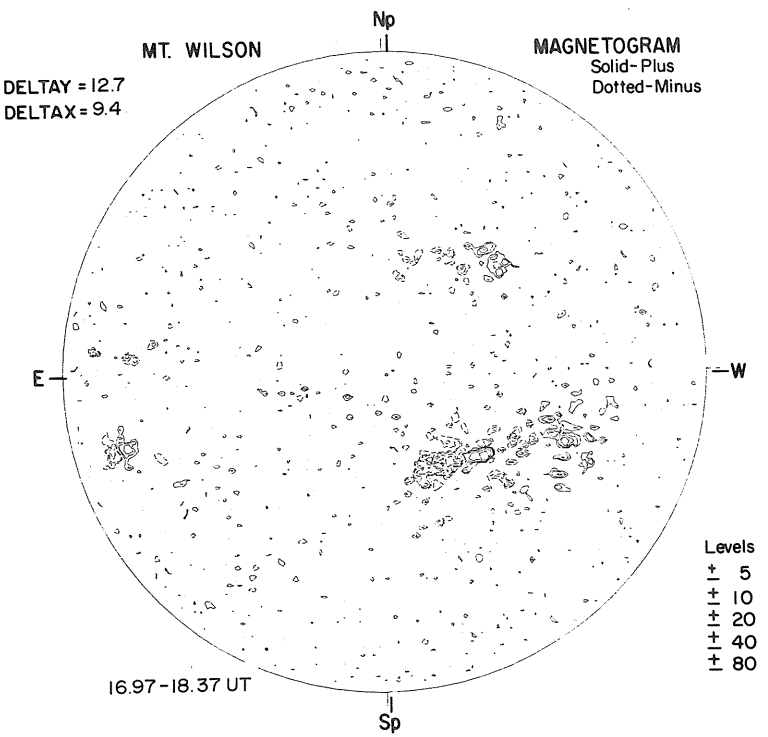
SEPTEMBER 13, 1975 (P = 23.63, B_o = 7.23, L_o = 159.02)



KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

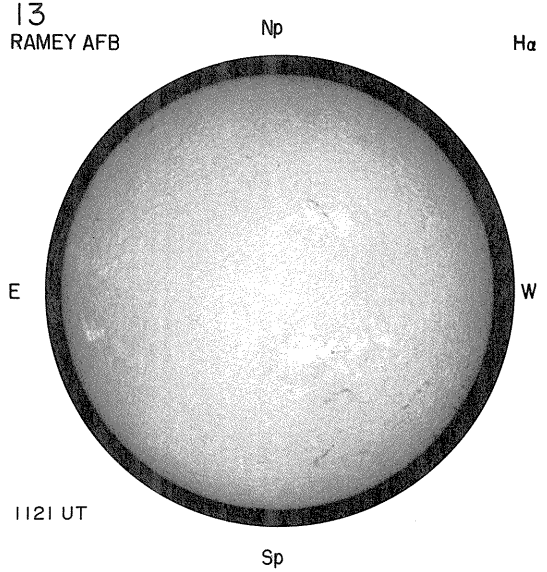




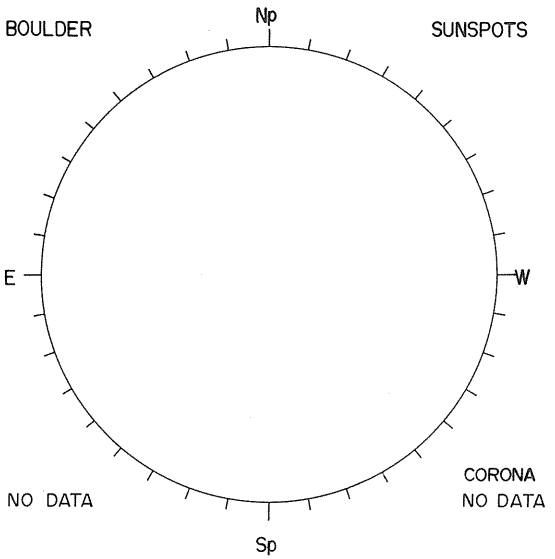
E— —W

Sp

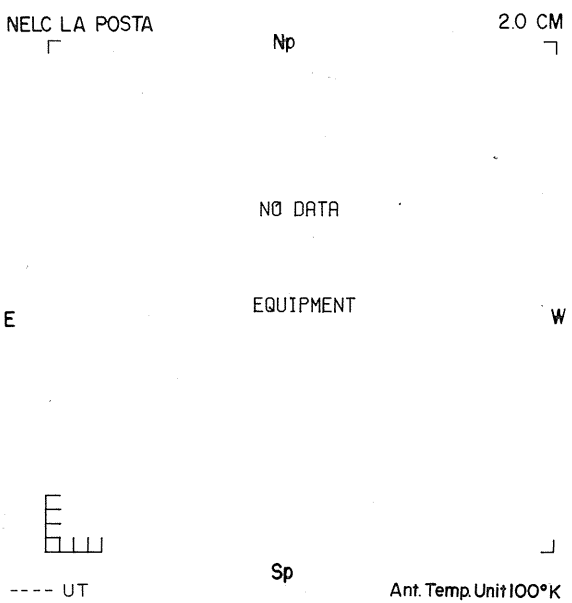
13
RAMEY AFB



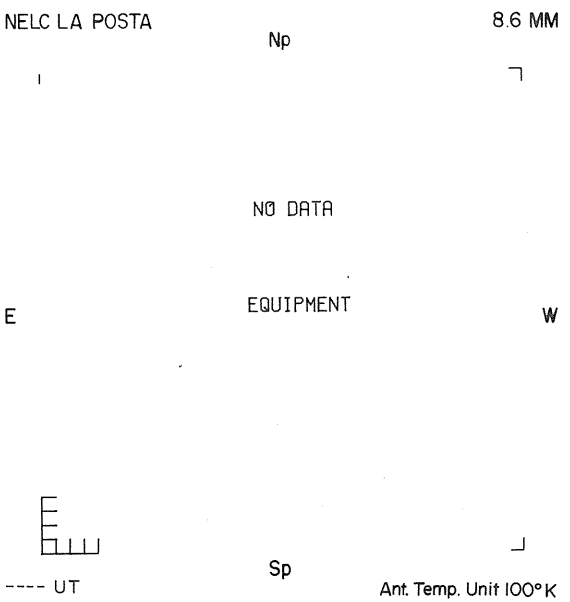
BOULDER



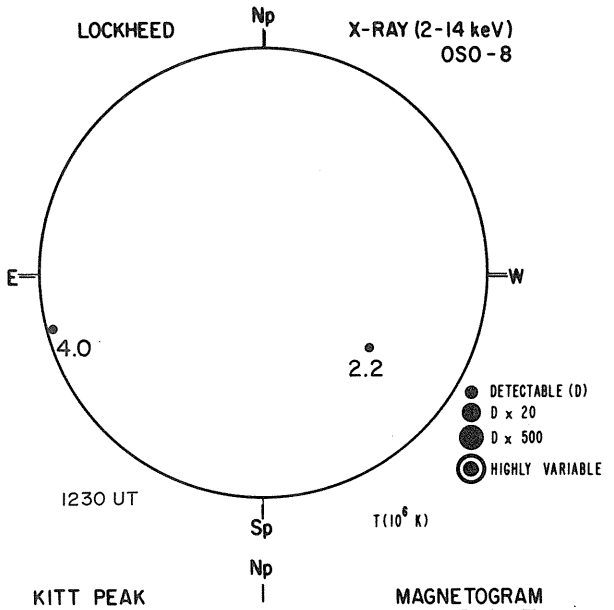
NELC LA POSTA



NELC LA POSTA

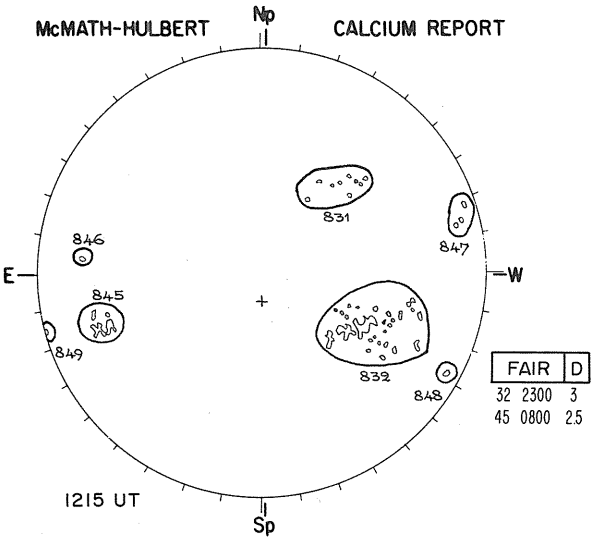


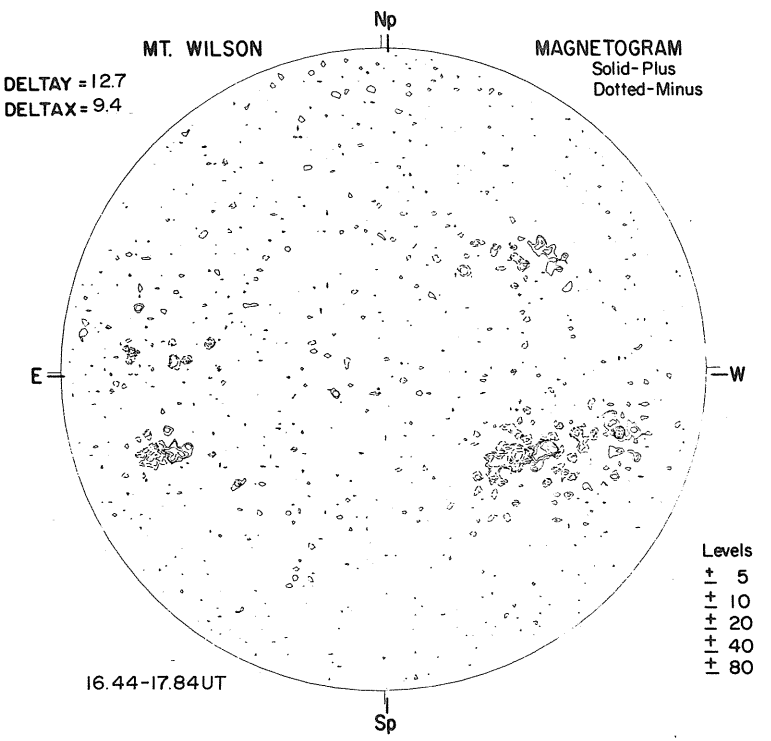
SEPTEMBER 14, 1975 (P =23.81, B_o =7.22, L_o =145.82)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus



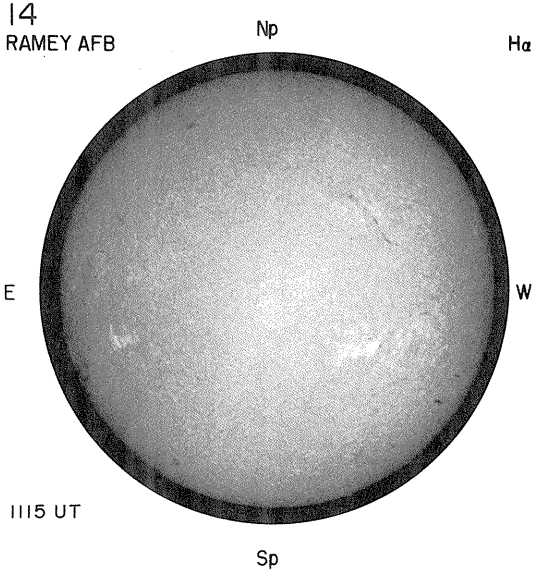


E— —W

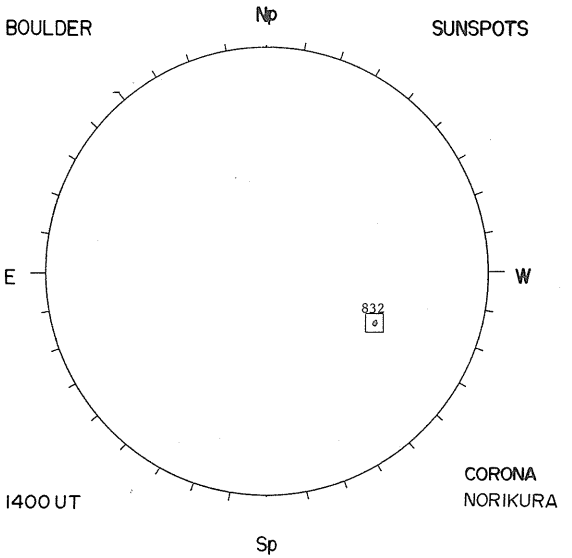
Sp

14

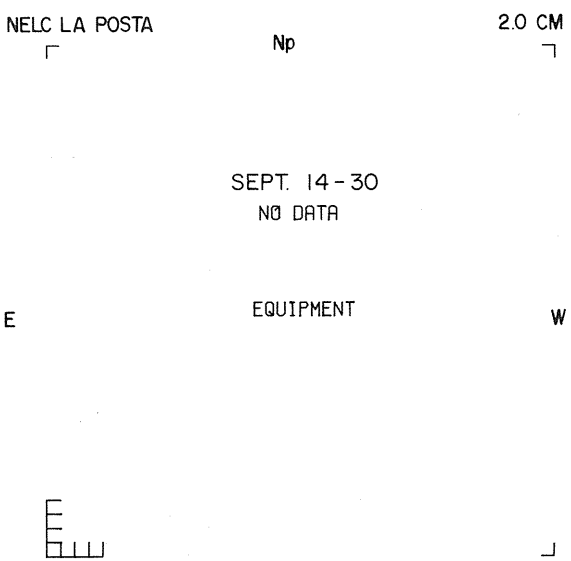
RAMEY AFB



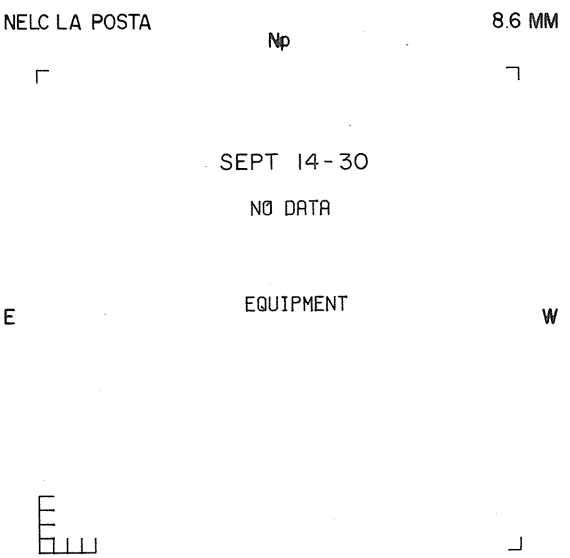
BOULDER



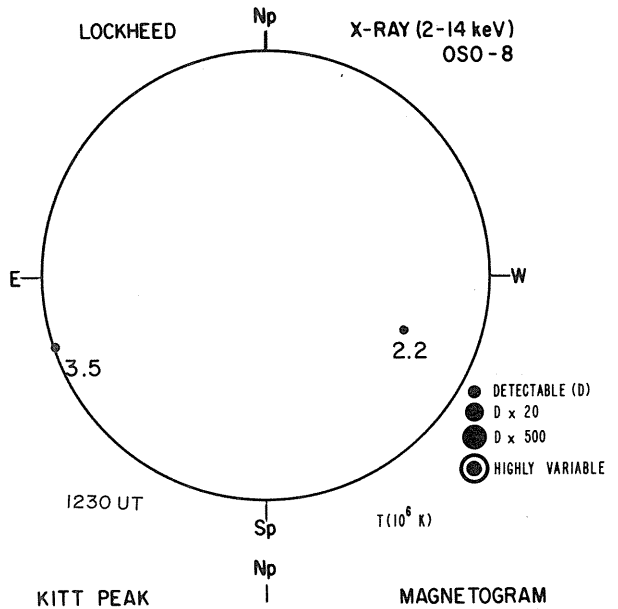
NELC LA POSTA



NELC LA POSTA

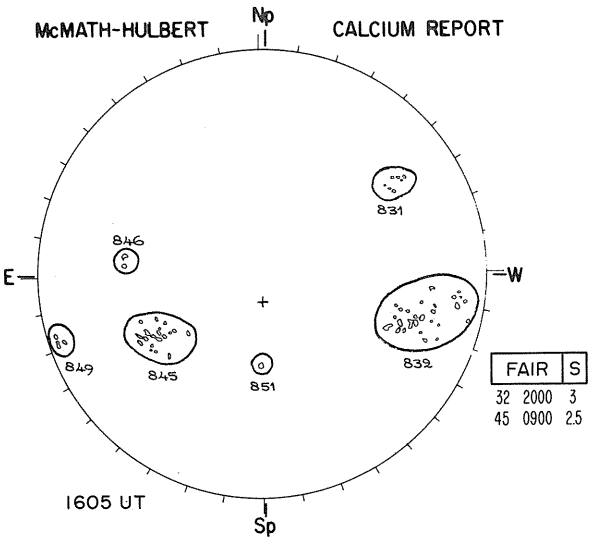


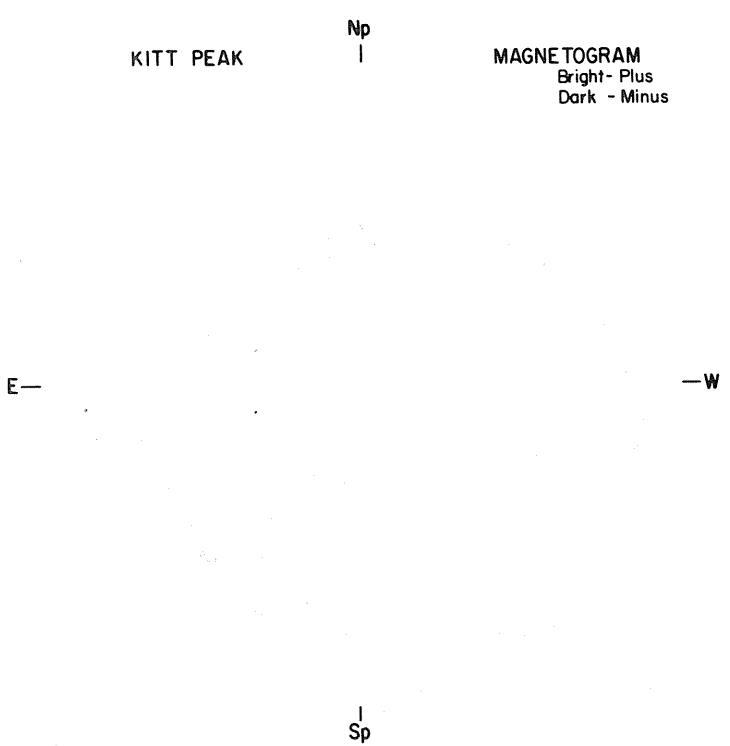
SEPTEMBER 15, 1975 (P = 23.99, B_0 = 7.21, L_0 = 132.61)

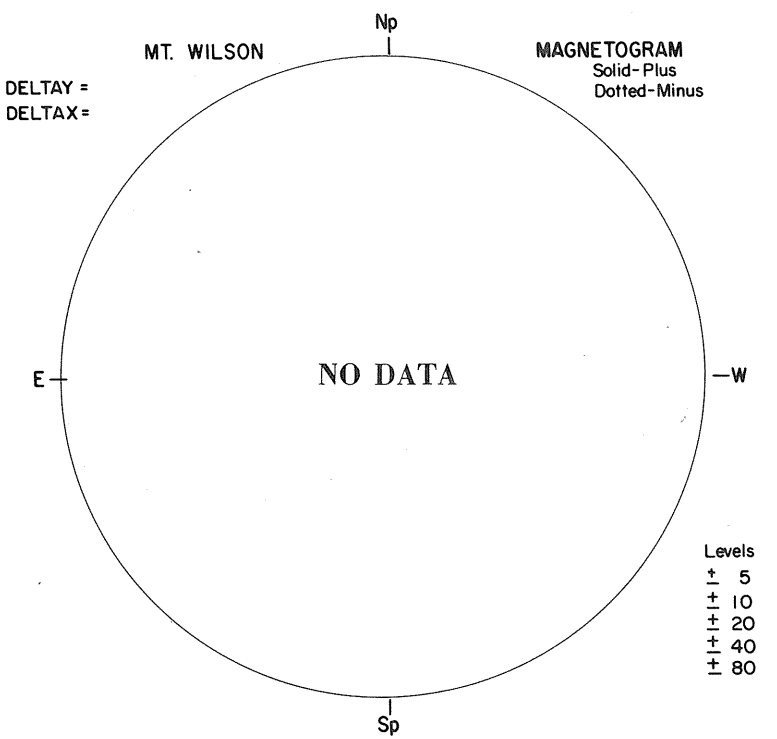


KITT PEAK

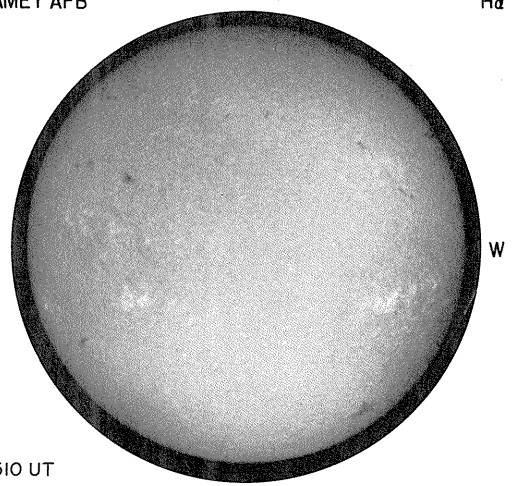
MAGNETOGRAM
Bright- Plus
Dark - Minus



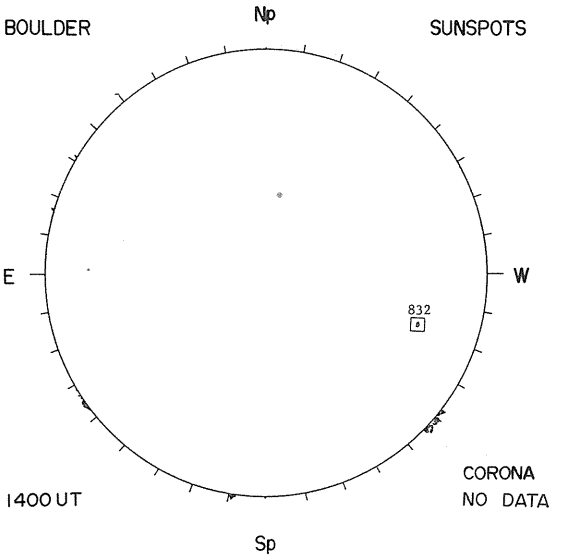




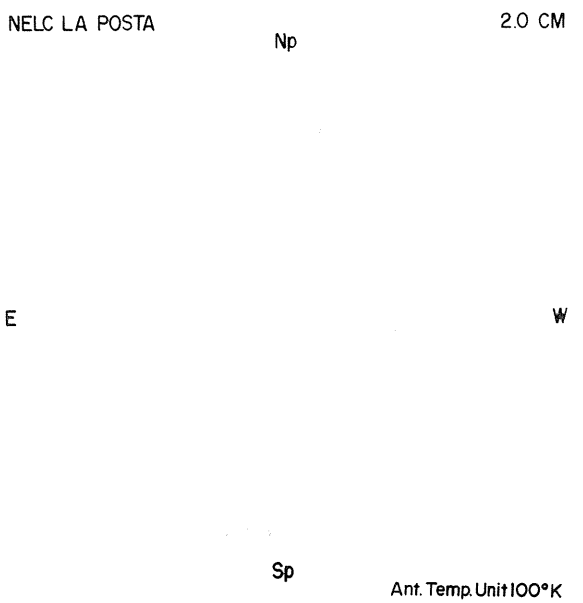
15
RAMEY AFB



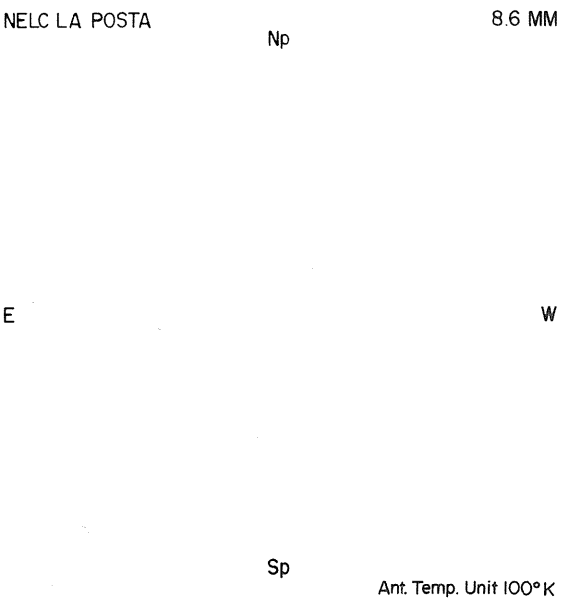
BOULDER



NELC LA POSTA



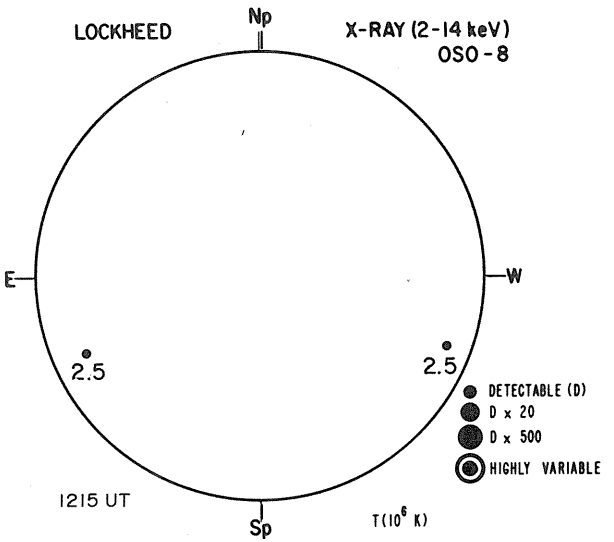
NELC LA POSTA



SEPTEMBER 16, 1975 (P = 24.16, B_o = 7.19, L_o = 119.41)

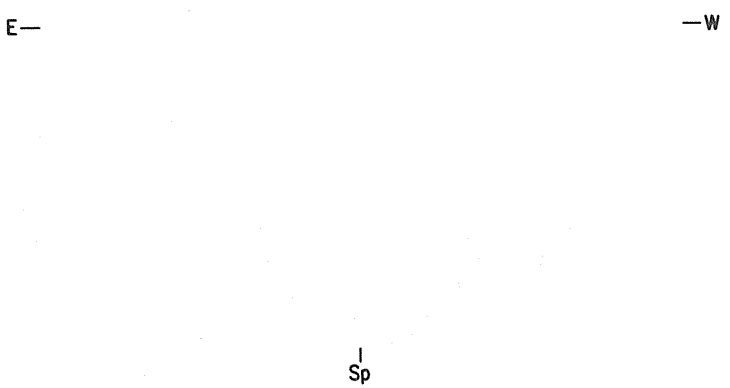
LOCKHEED

X-RAY (2-14 keV)
OSO-8



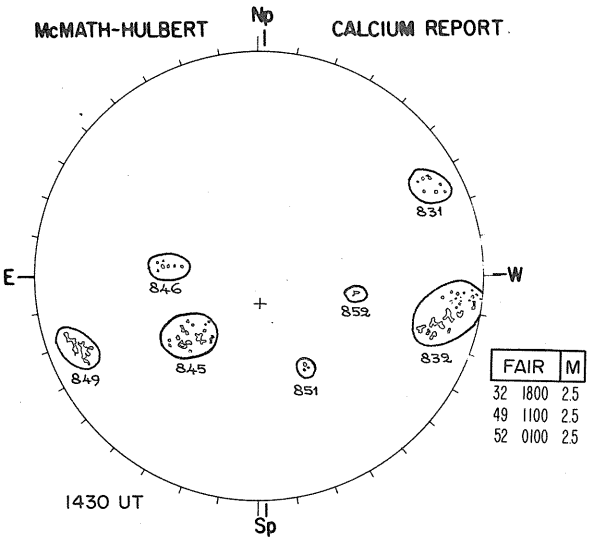
KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus



McMATH-HULBERT

CALCIUM REPORT

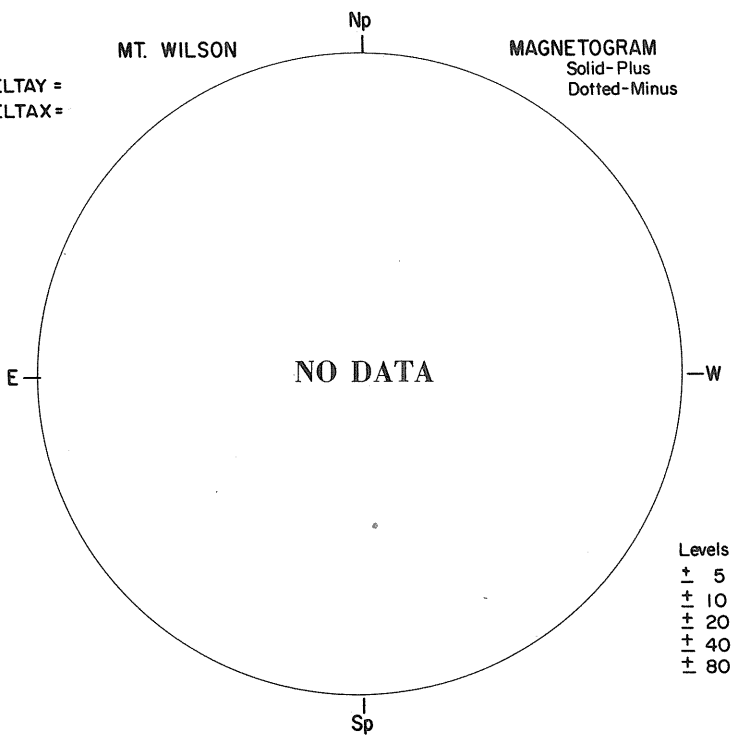


FAIR	M
32 1800	2.5
49 1100	2.5
52 0100	2.5

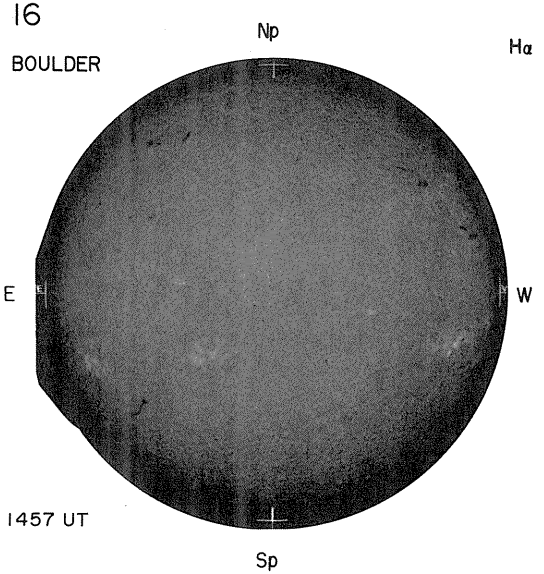
MT. WILSON

MAGNETOGRAM
Solid - Plus
Dotted - Minus

DELTAY =
DELTAX =



16



NELC LA POSTA

Np

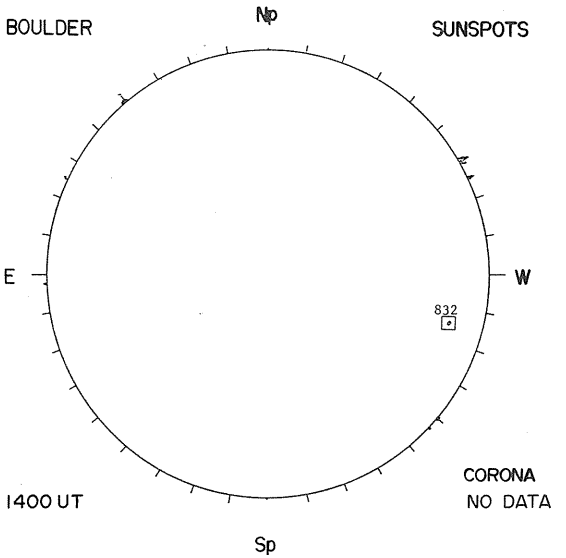
2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K



NELC LA POSTA

Np

8.6 MM

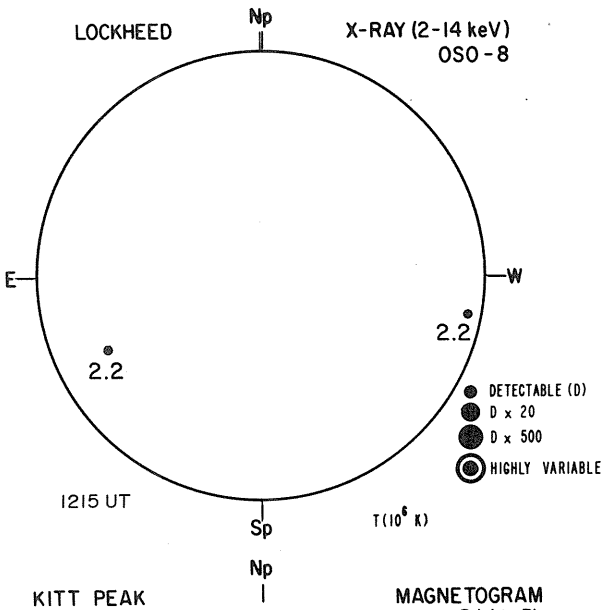
E

W

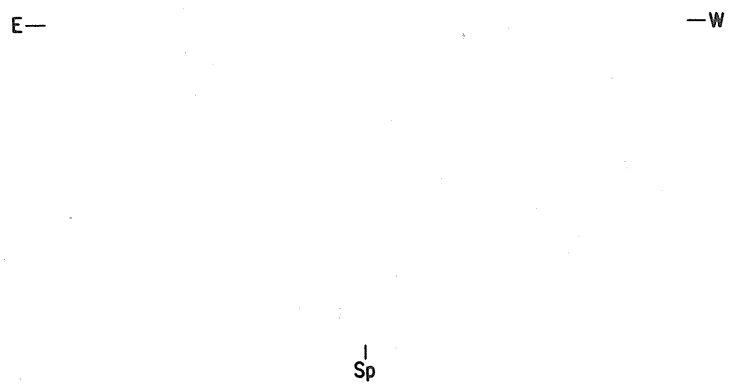
Sp

Ant. Temp. Unit 100°K

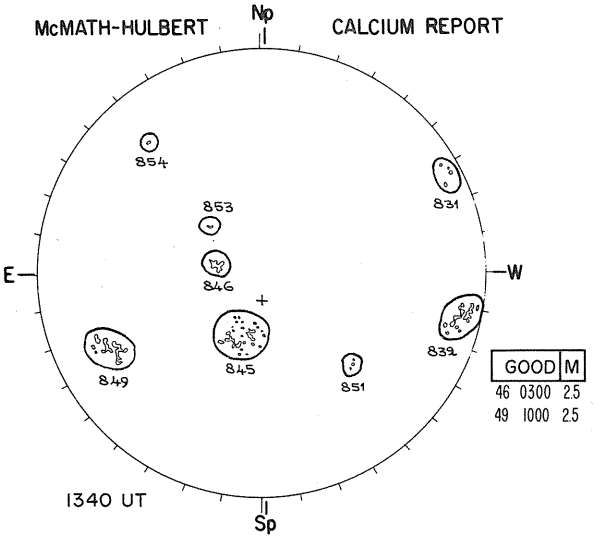
SEPTEMBER 17, 1975 (P =24.33, B_o = 7.18, L_o =106.21)

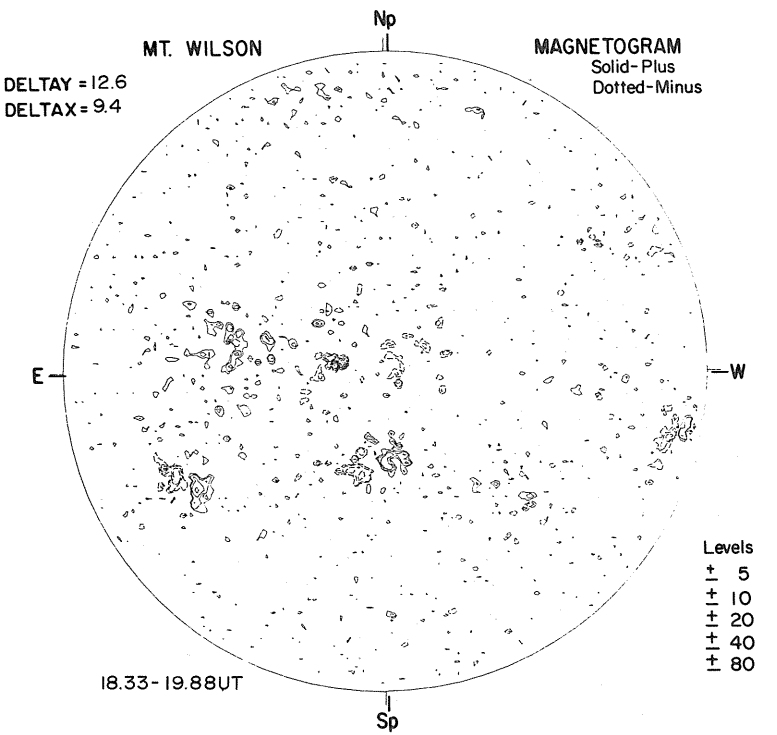


KITT PEAK

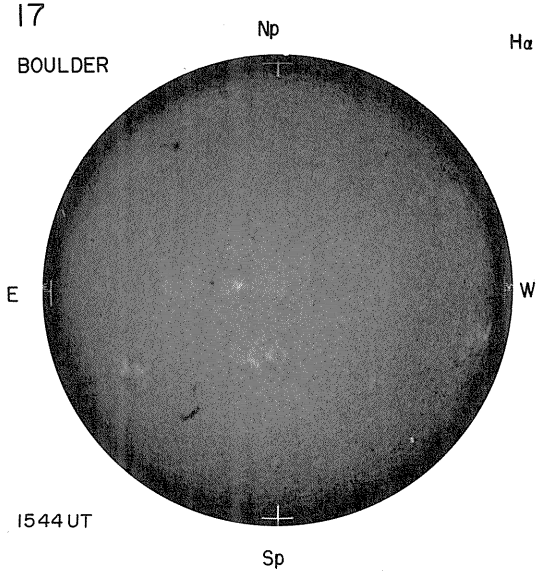


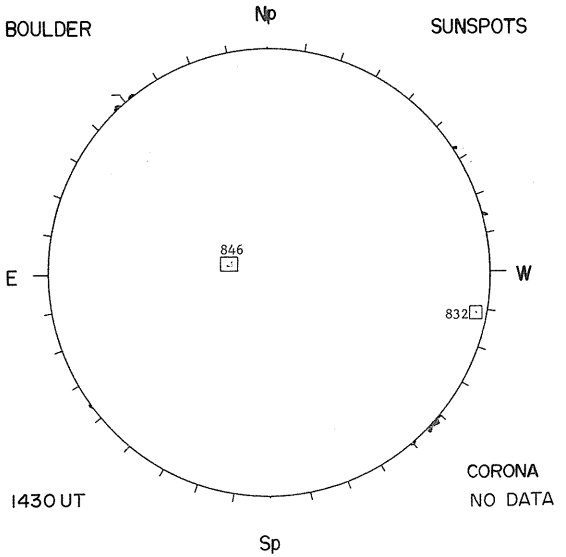
MAGNETOGRAM
Bright- Plus
Dark - Minus





17





NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

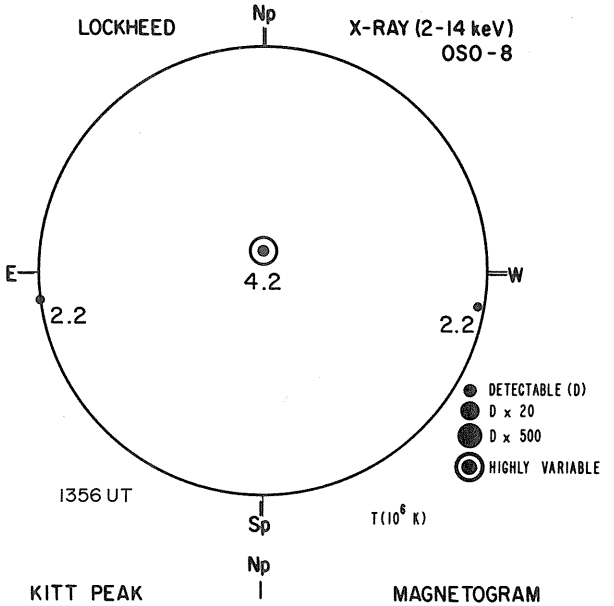
E

W

Sp

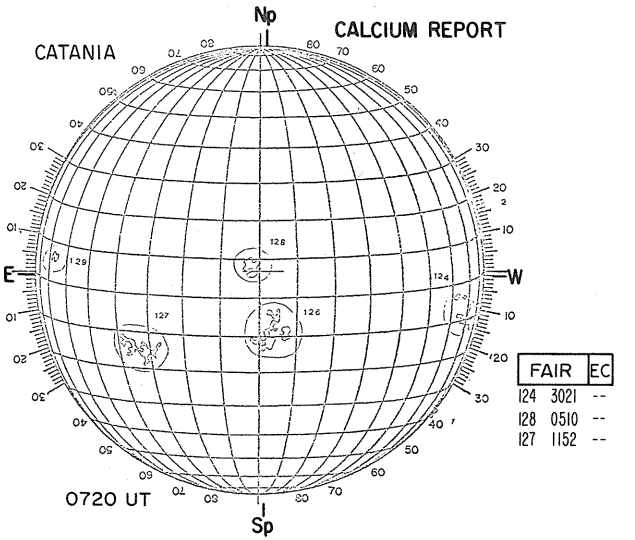
Ant. Temp. Unit 100°K

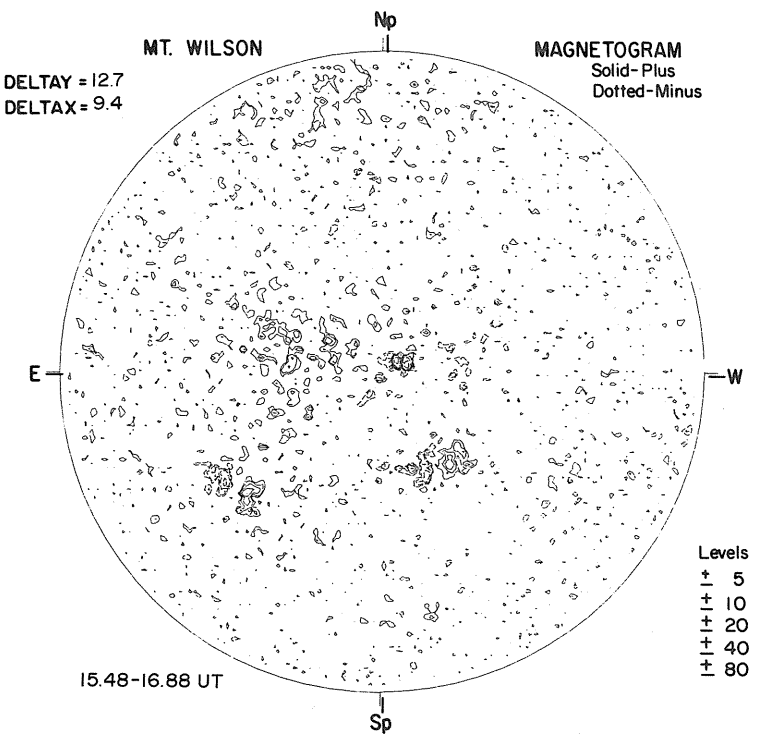
SEPTEMBER 18, 1975 (P = 24.49, B_0 = 7.16, L_0 = 93.01)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus

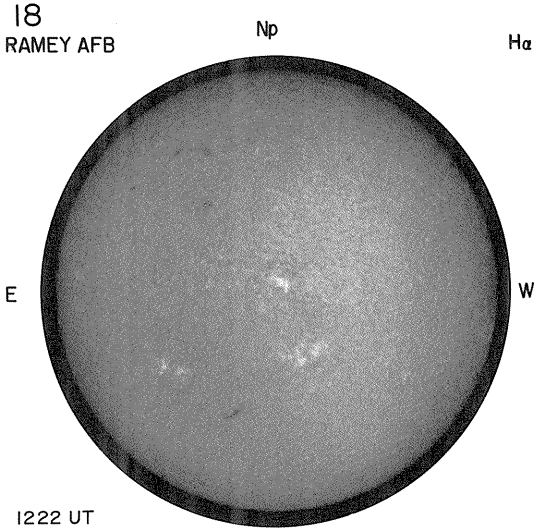




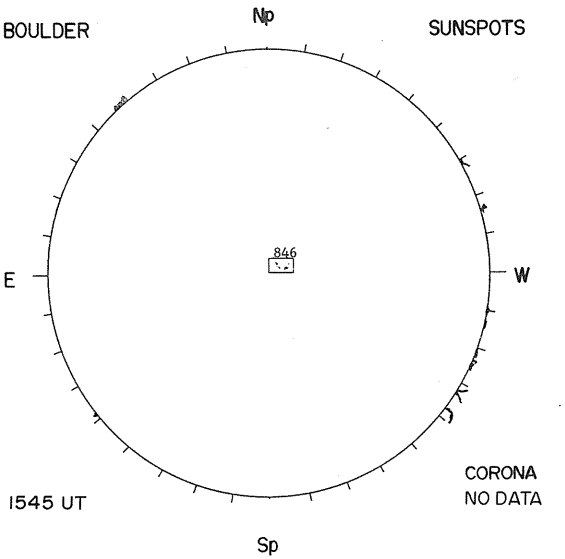
E— —W

Sp

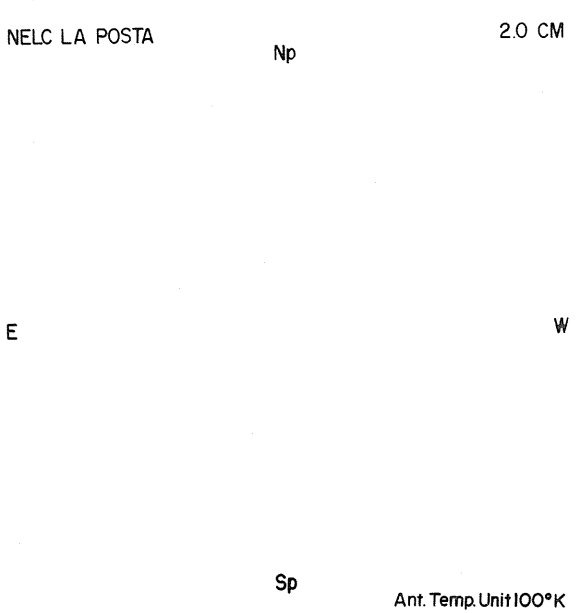
18
RAMEY AFB



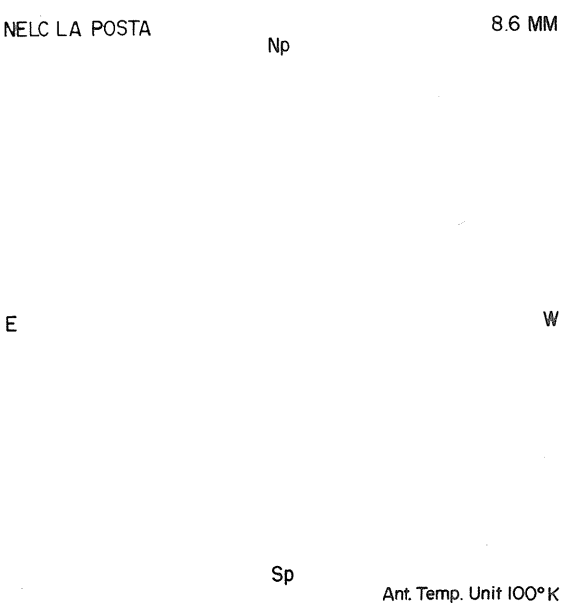
BOULDER



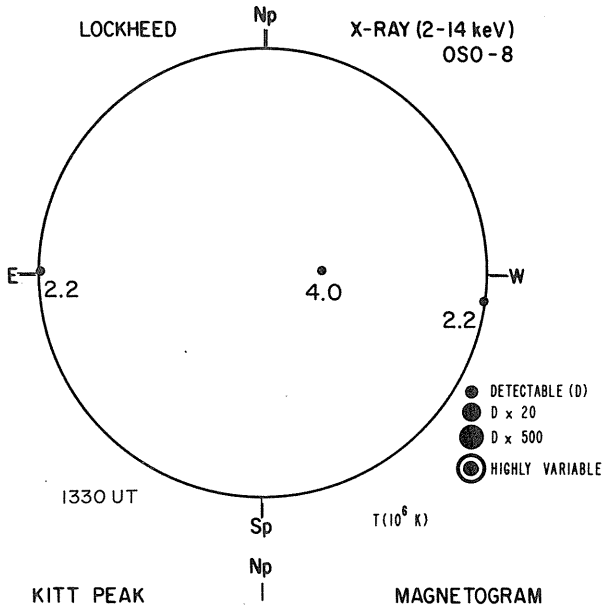
NELC LA POSTA



NELC LA POSTA

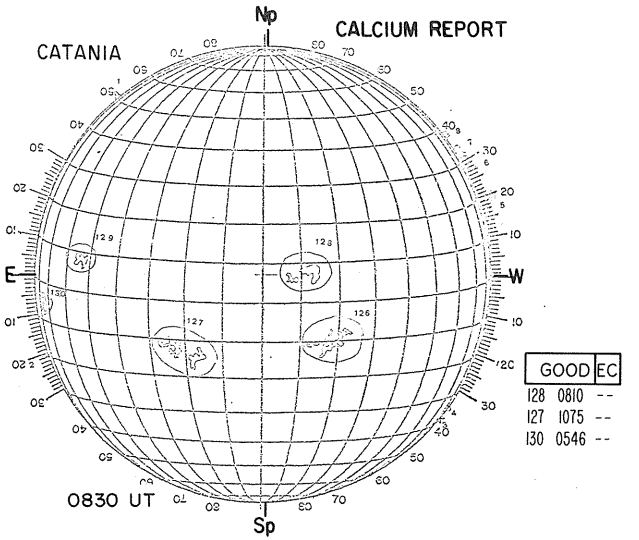


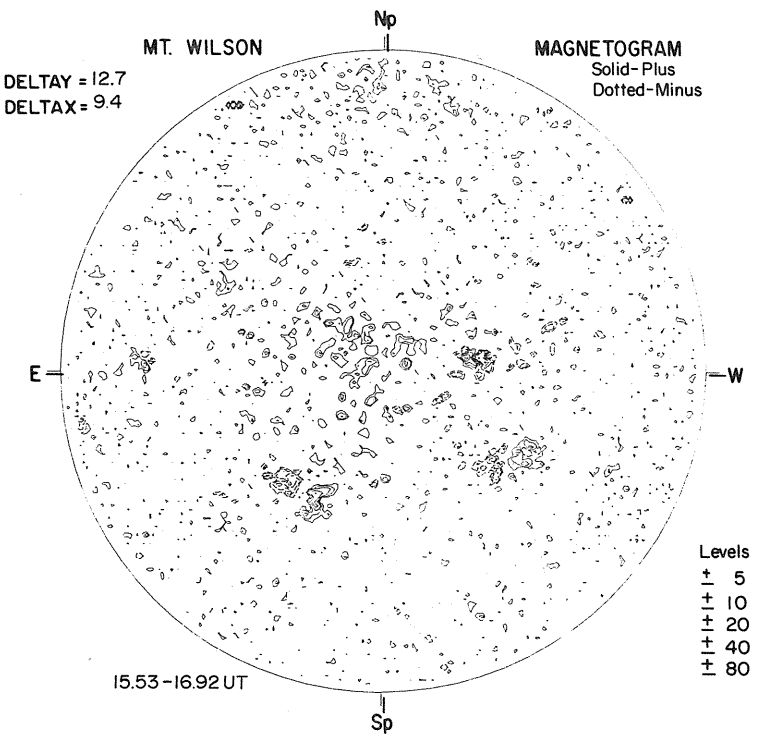
SEPTEMBER 19, 1975 (P = 24.64, B_o = 7.14, L_o = 79.81)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus

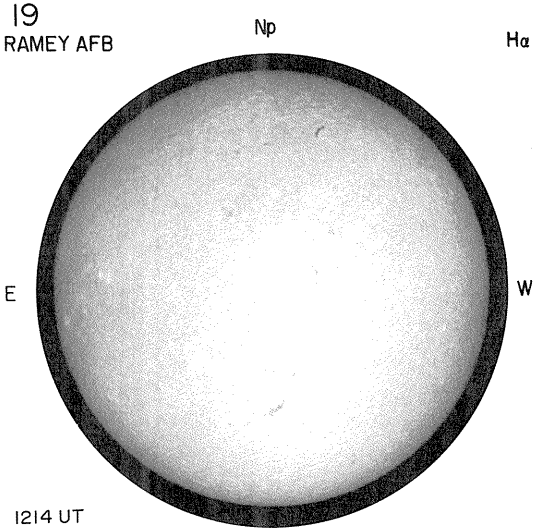




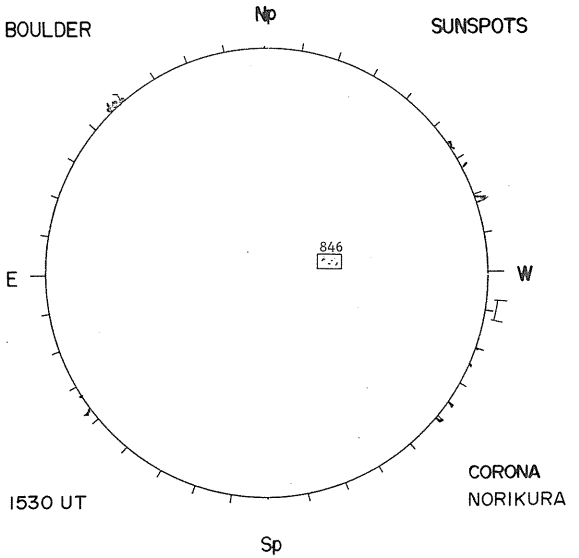
E— —W

Sp

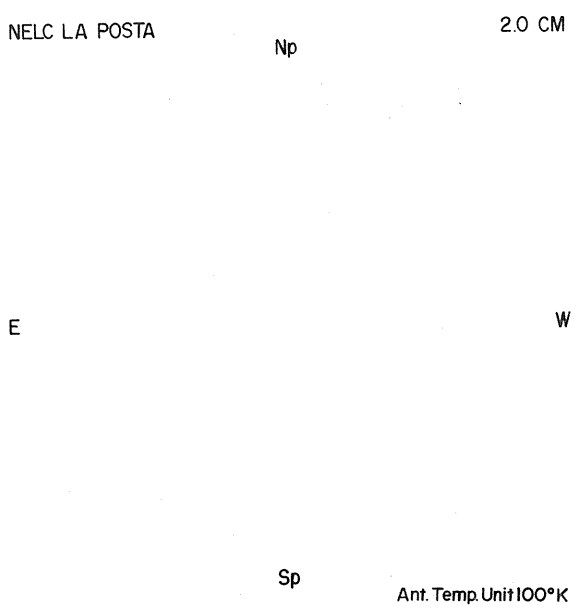
19
RAMEY AFB



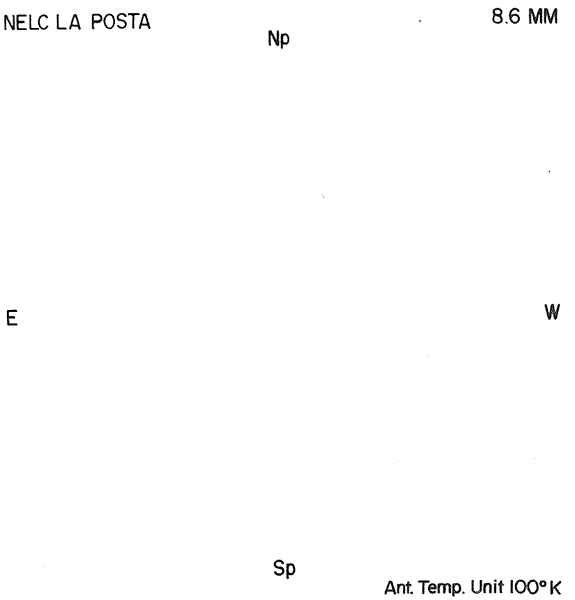
BOULDER



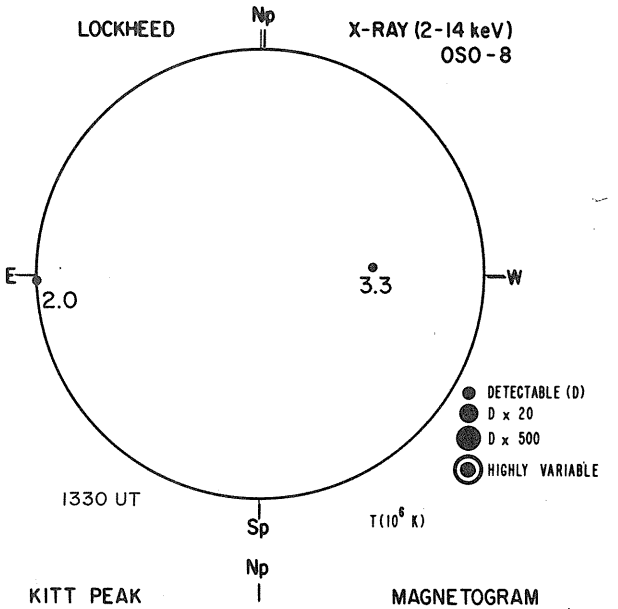
NELC LA POSTA

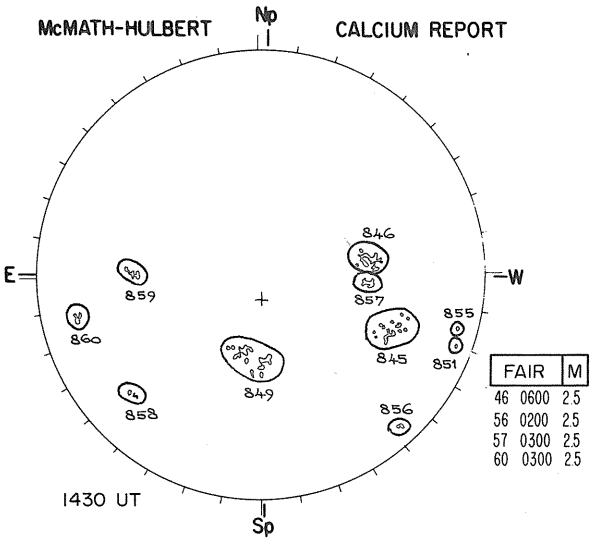


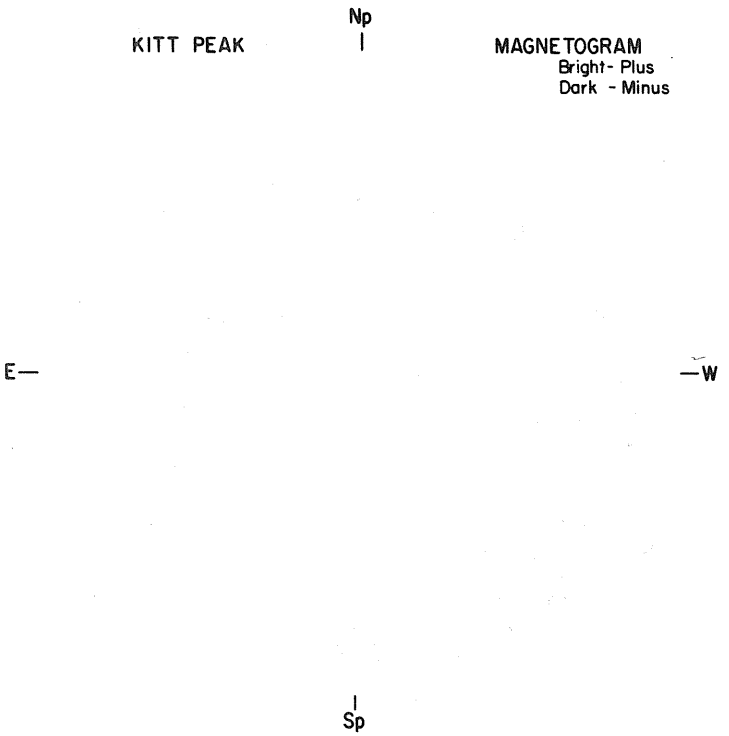
NELC LA POSTA

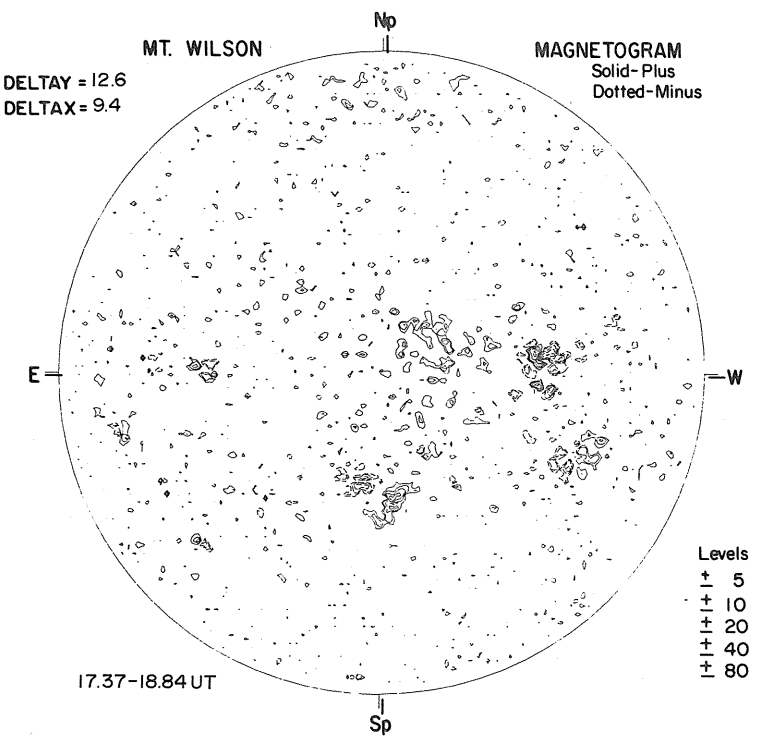


SEPTEMBER 20, 1975 (P = 24.79, B_0 = 7.12, L_0 = 66.60)

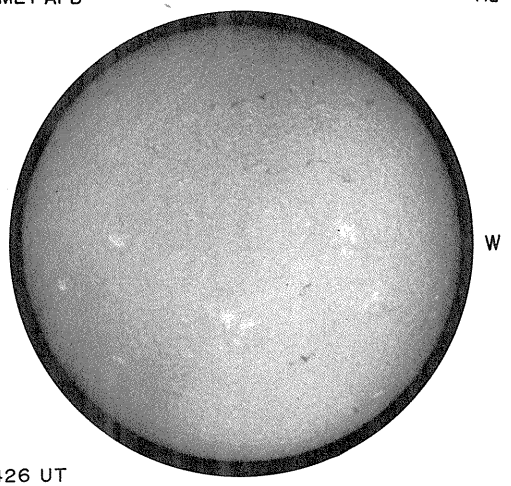




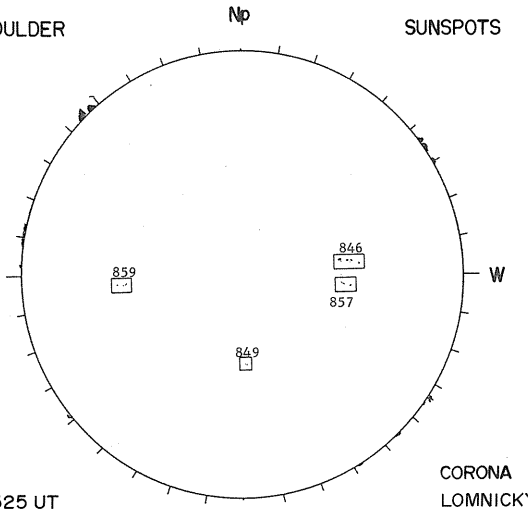




20
RAMEY AFB



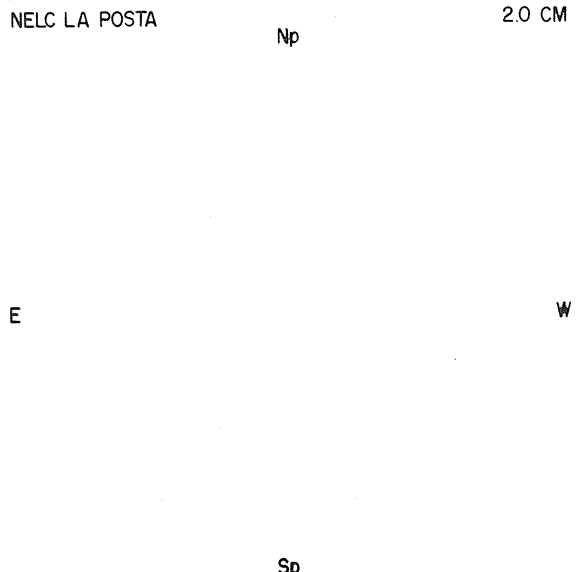
BOULDER



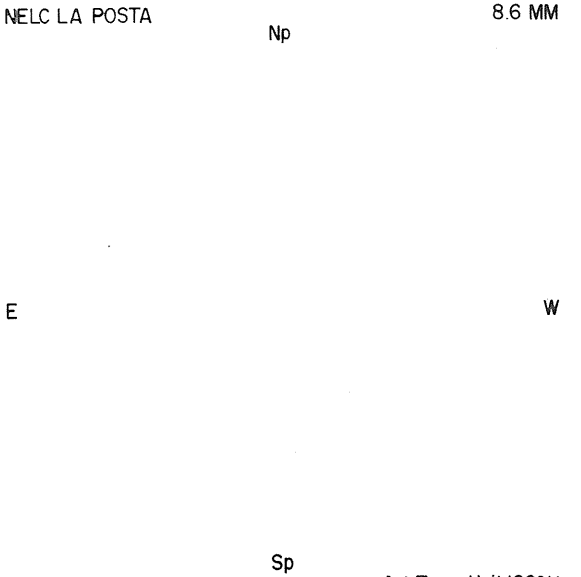
SUNSPOTS

CORONA
LOMNICKY-STIT
1525 UT

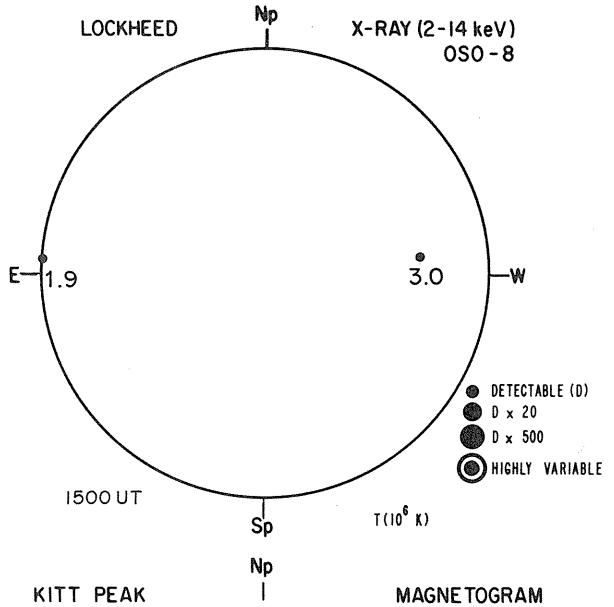
NELC LA POSTA



NELC LA POSTA

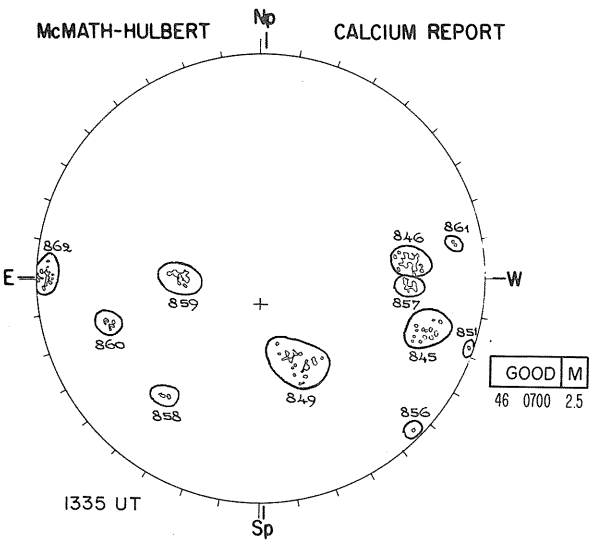


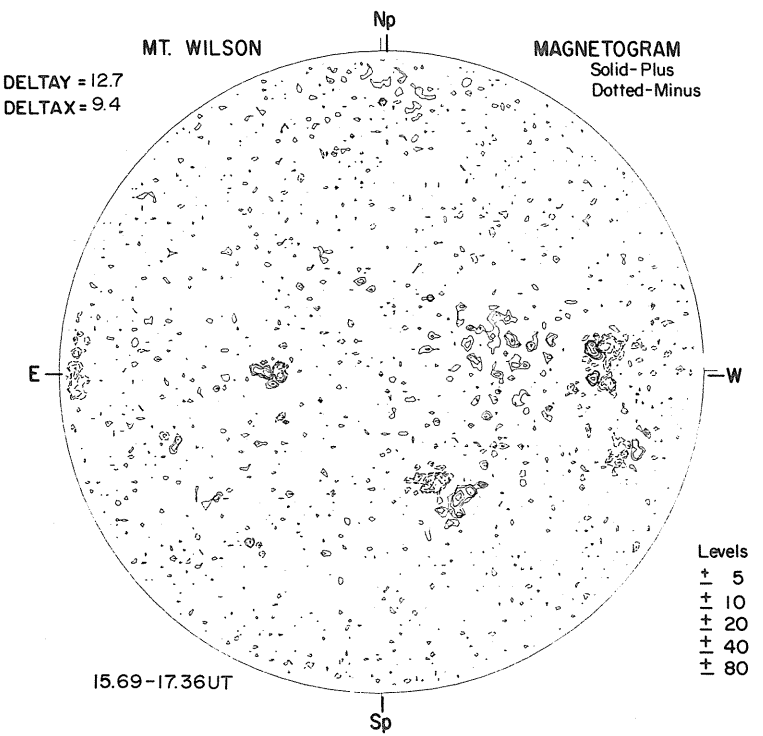
SEPTEMBER 21, 1975 (P = 24.93, B_0 = 7.09, L_0 = 53.40)

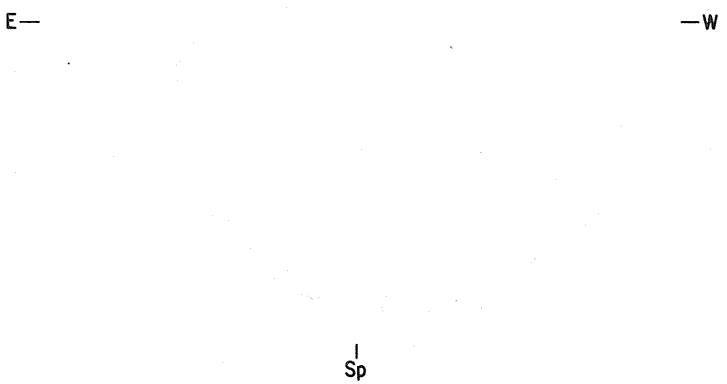


KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus







21

BOULDER

Np

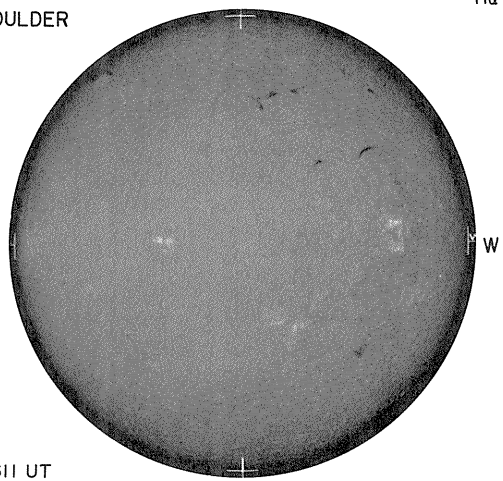
Hα

E

W

Sp

1611 UT



NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

BOULDER

Np

SUNSPOTS

E

W

859

846

857

849

Sp

1530 UT

CORONA

NO DATA

NELC LA POSTA

Np

8.6 MM

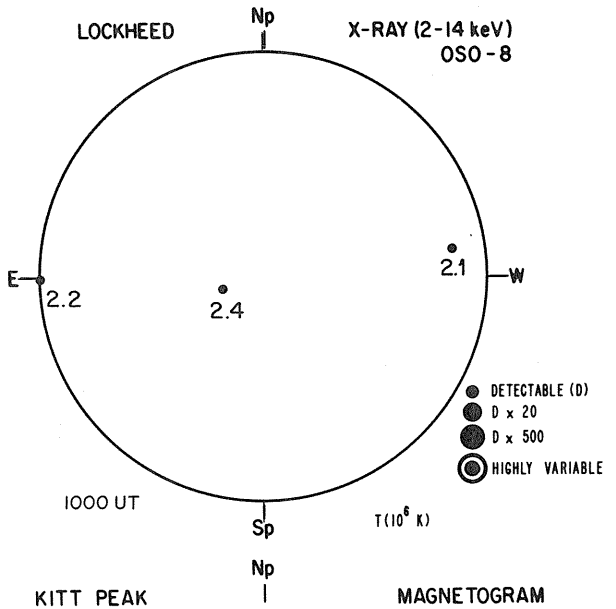
E

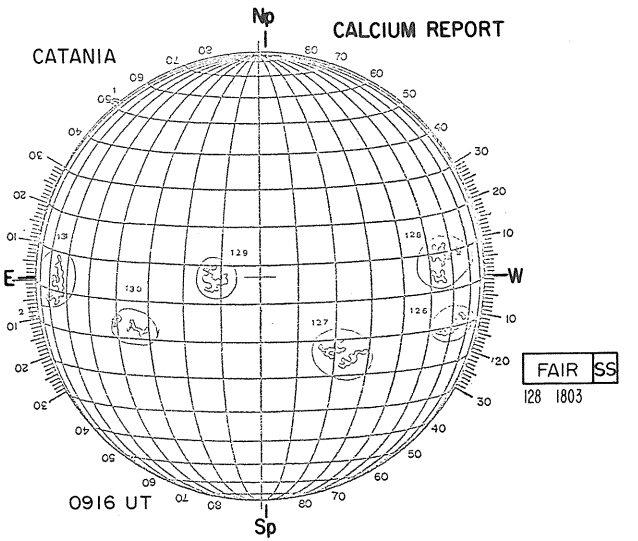
W

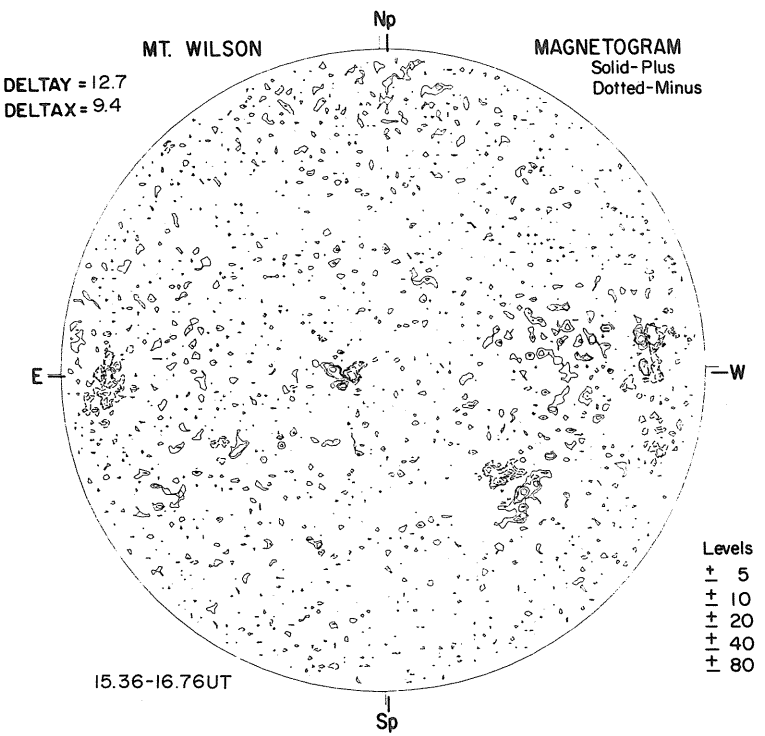
Sp

Ant. Temp. Unit 100°K

SEPTEMBER 22, 1975 (P = 25.07, B_o = 7.06, L_o = 40.20)





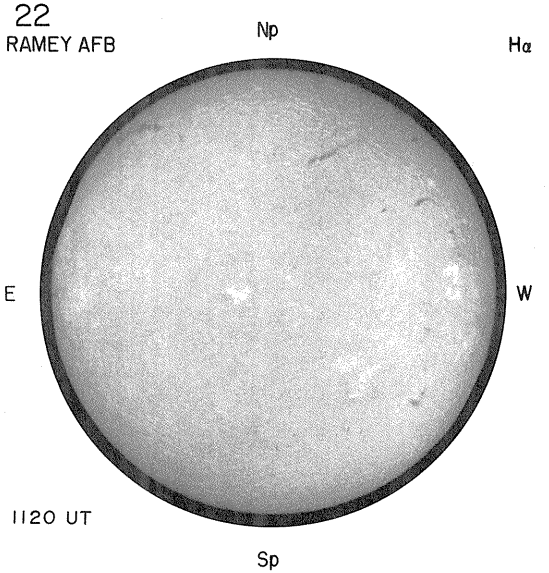


E— —W

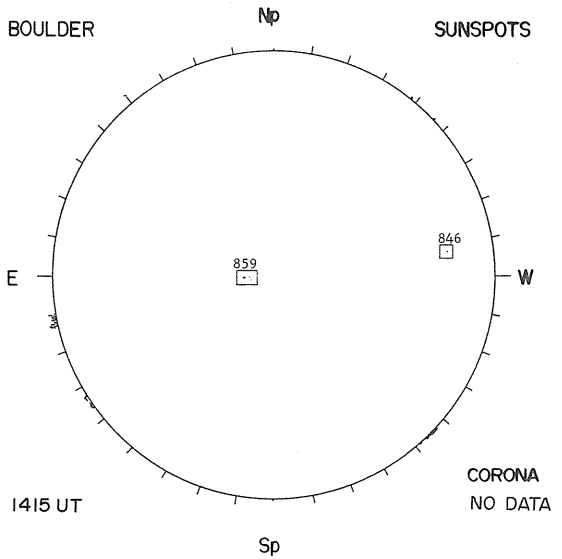
Sp

22

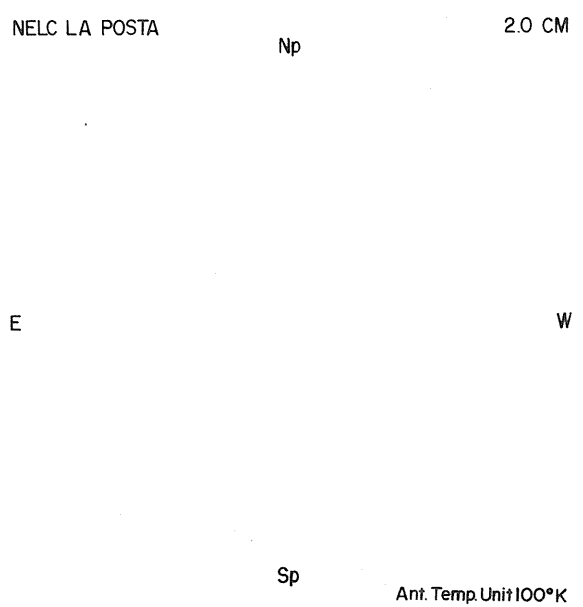
RAMEY AFB



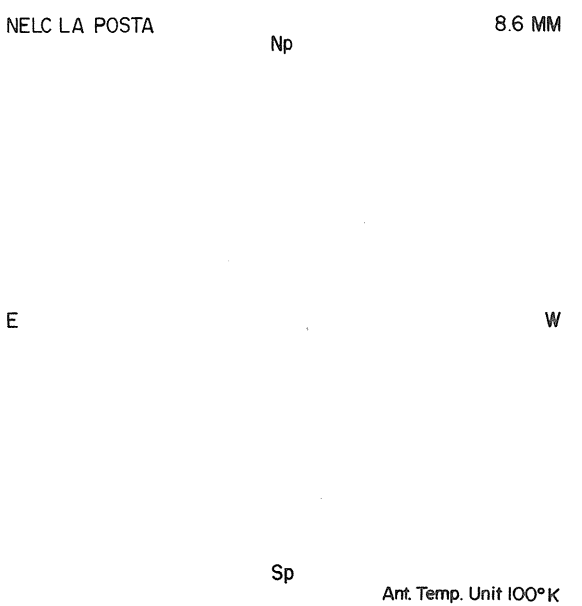
BOULDER



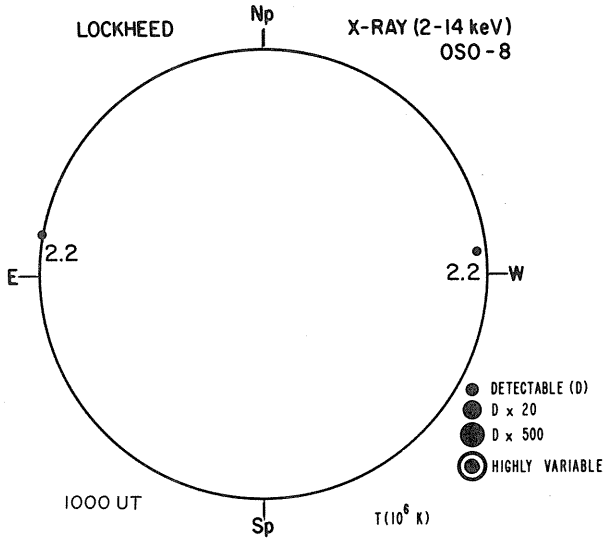
NELC LA POSTA

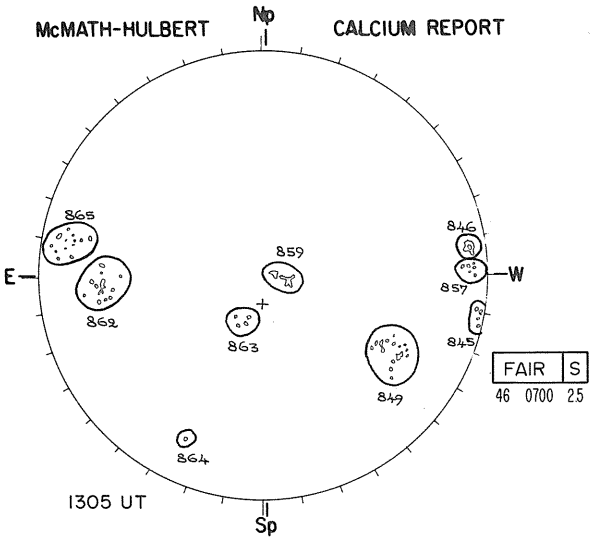


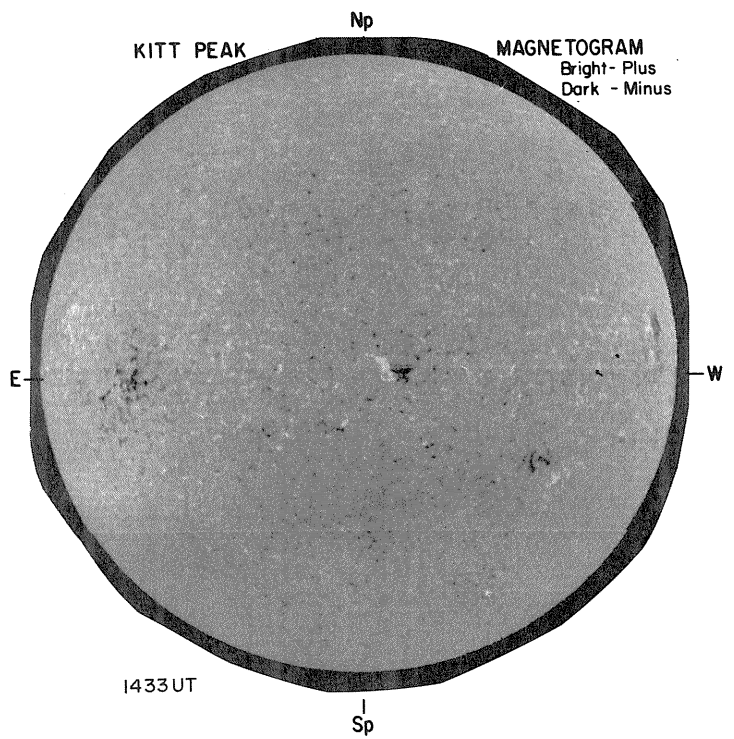
NELC LA POSTA

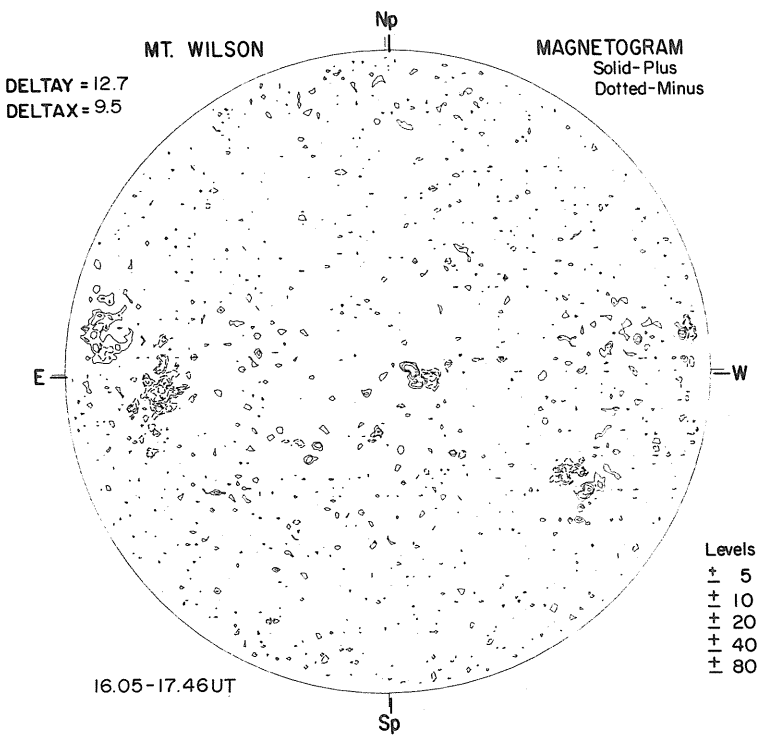


SEPTEMBER 23, 1975 (P =25.19, B_o =7.04, L_o =27.00)



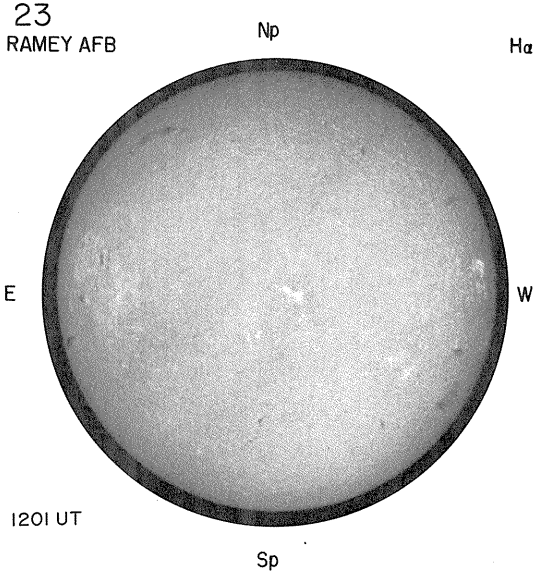




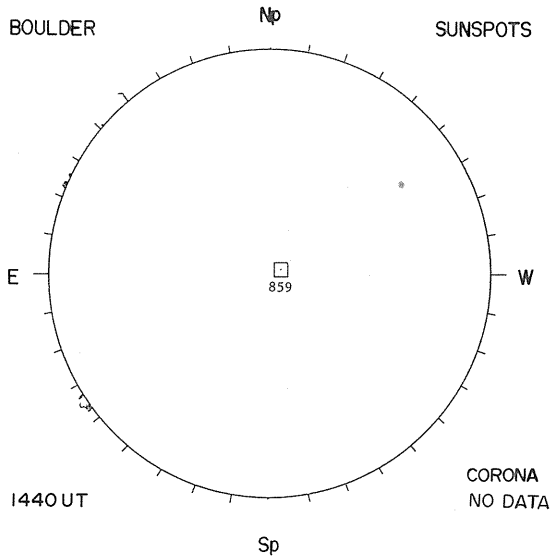


23

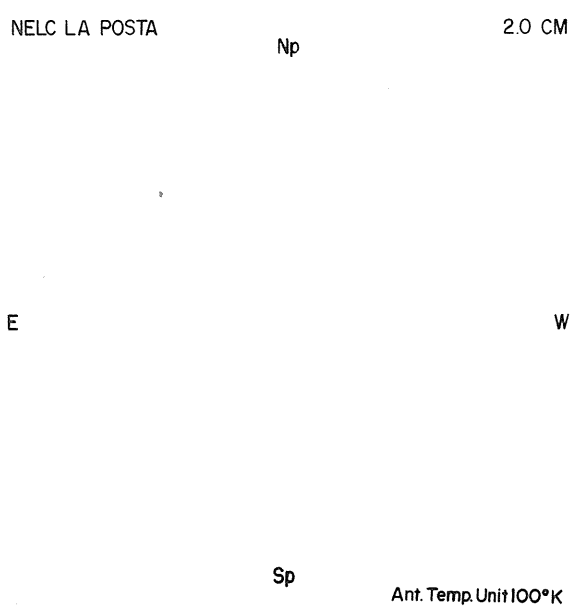
RAMEY AFB



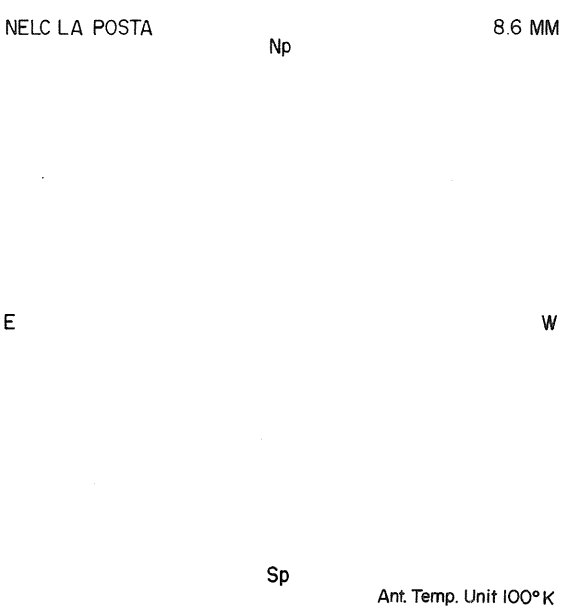
BOULDER



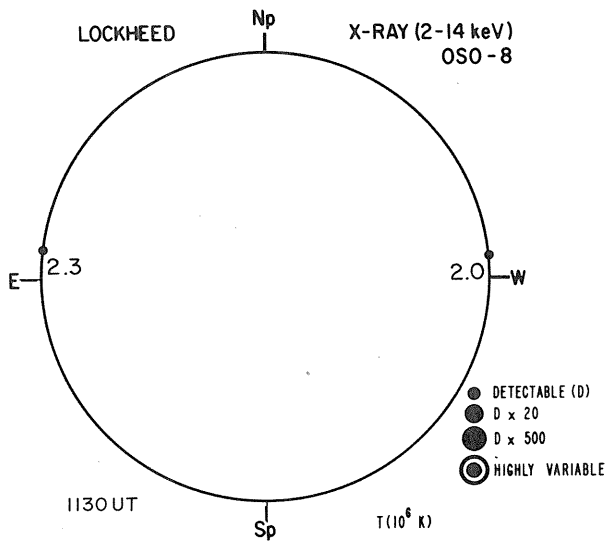
NELC LA POSTA

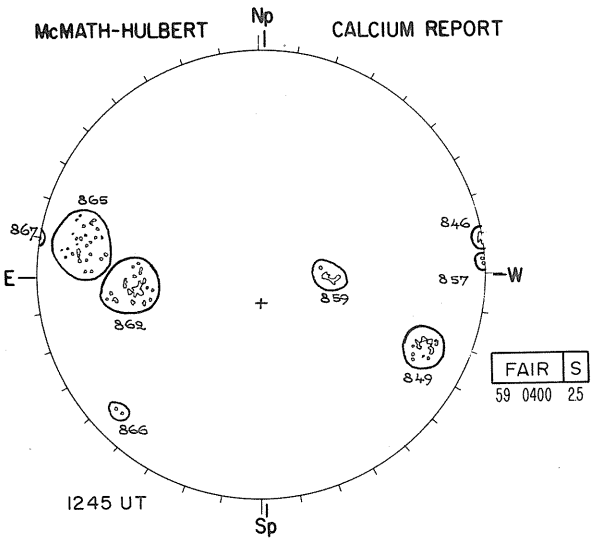


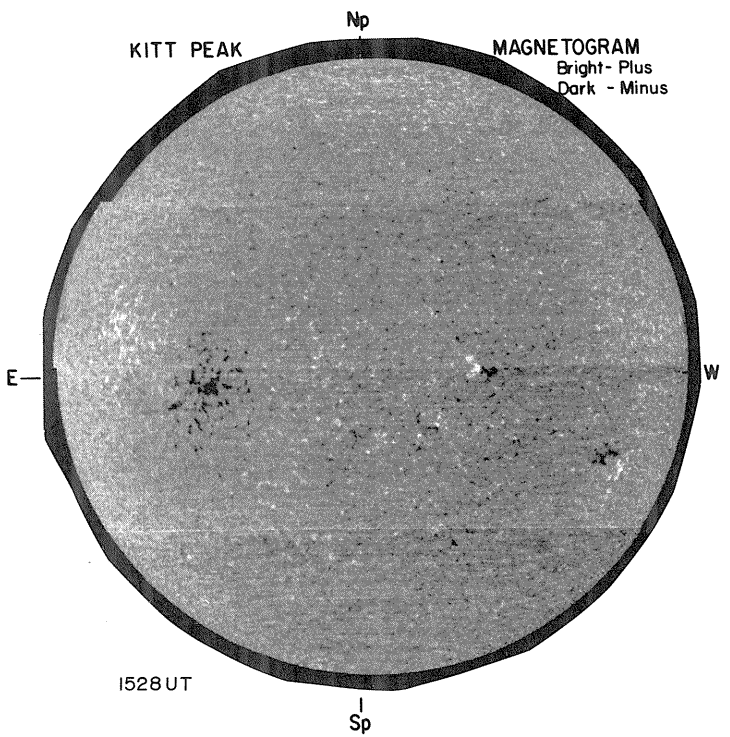
NELC LA POSTA

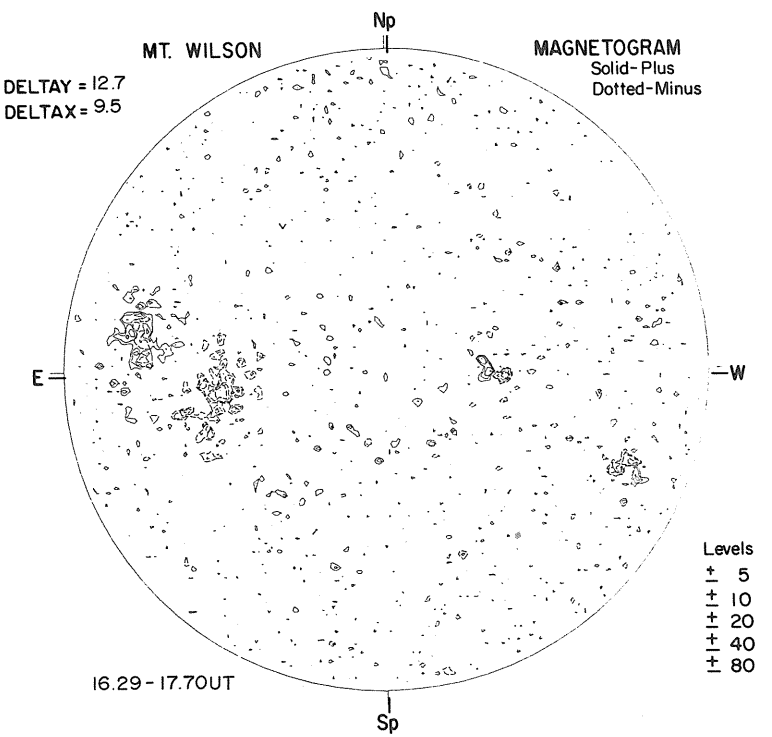


SEPTEMBER 24, 1975 (P =25.31, B_o =7.00, L_o =13.81)

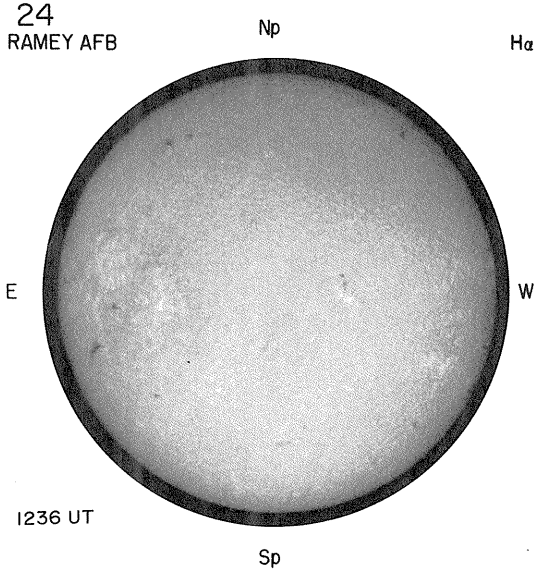




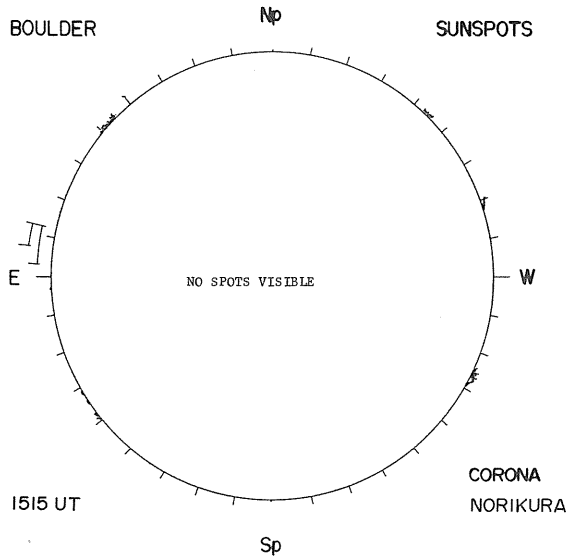




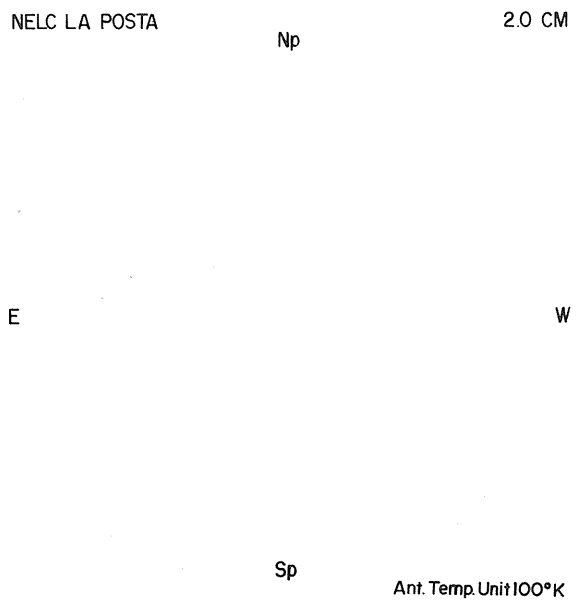
24
RAMEY AFB



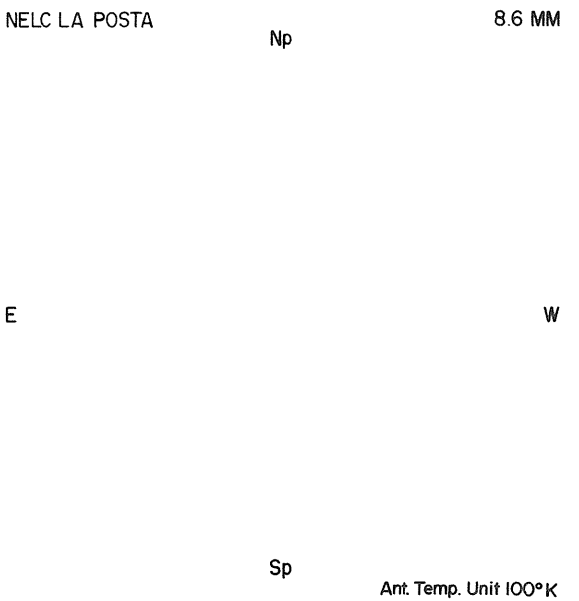
BOULDER



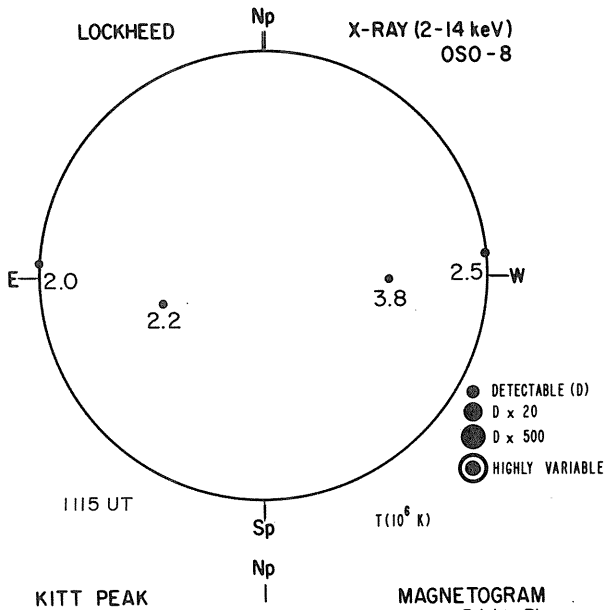
NELC LA POSTA



NELC LA POSTA

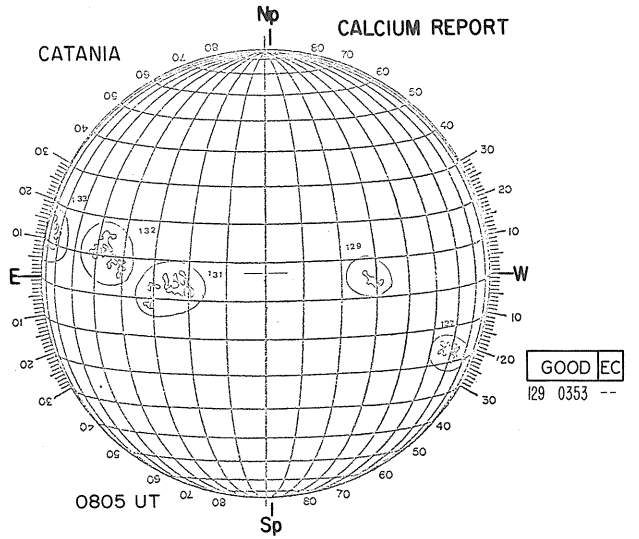


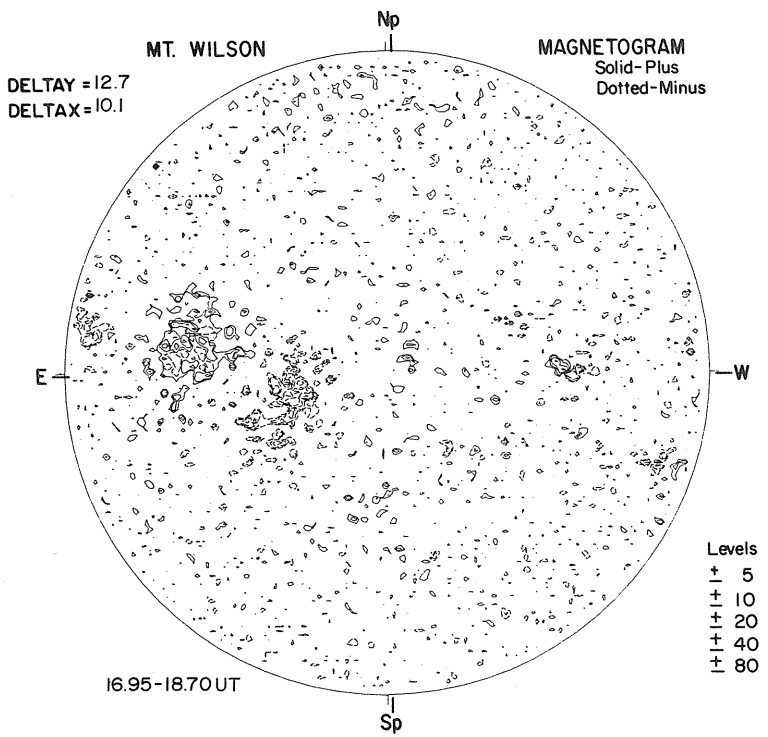
SEPTEMBER 25, 1975 (P =25.43, B_o =6.97, L_o =0.61)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus





E— —W

Sp

25

RAMEY AFB

Np

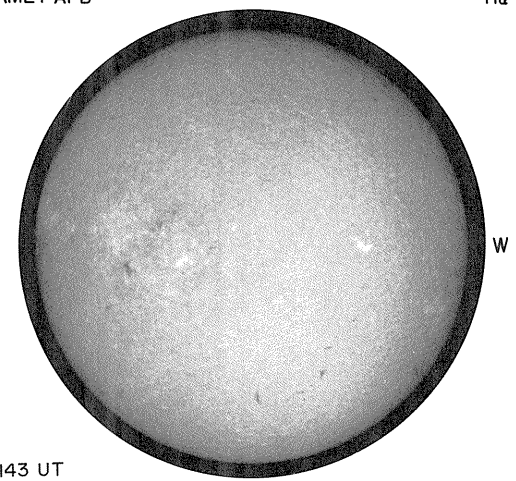
Hα

E

W

1143 UT

Sp



BOULDER

Np

SUNSPOTS

E

862

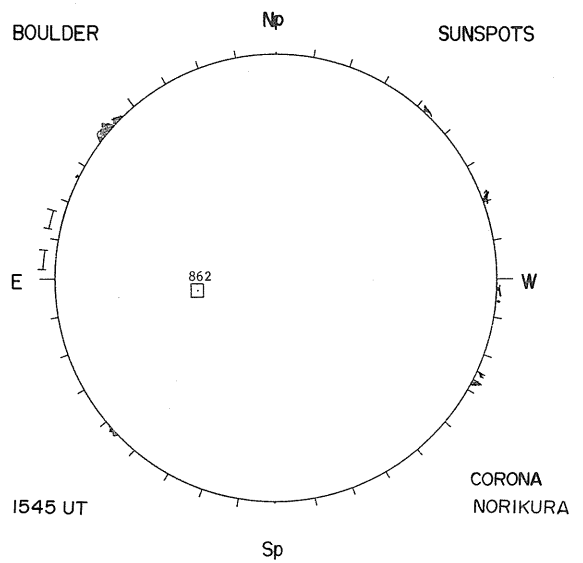
W

CORONA

NORIKURA

1545 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

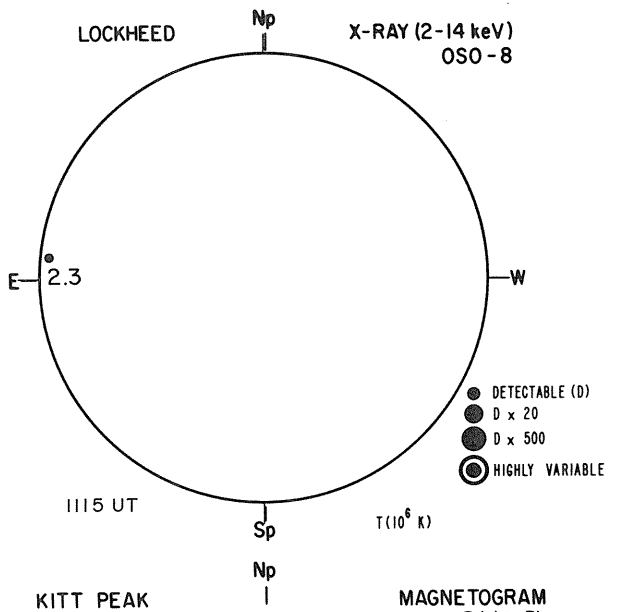
Sp

Ant. Temp. Unit 100°K

73

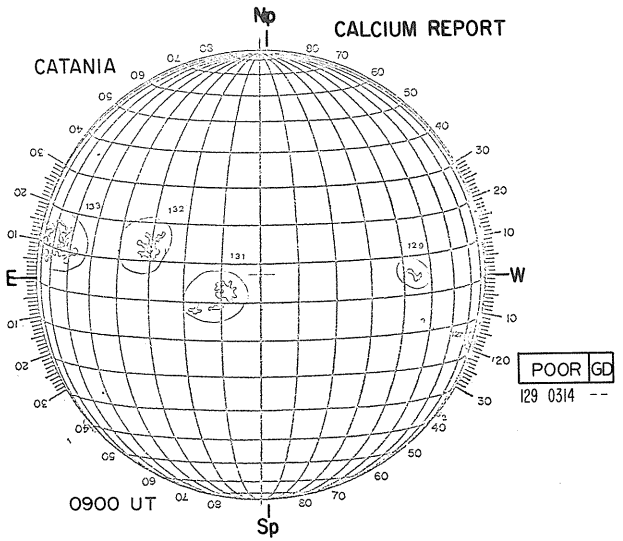
Sep 75

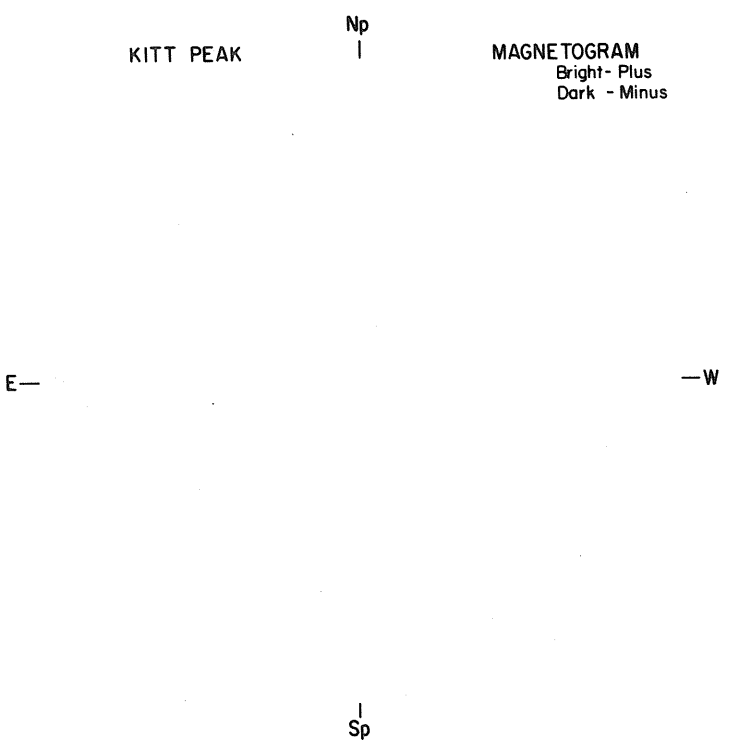
SEPTEMBER 26, 1975 (P =25.54, B_o =6.94, L_o =347.41)

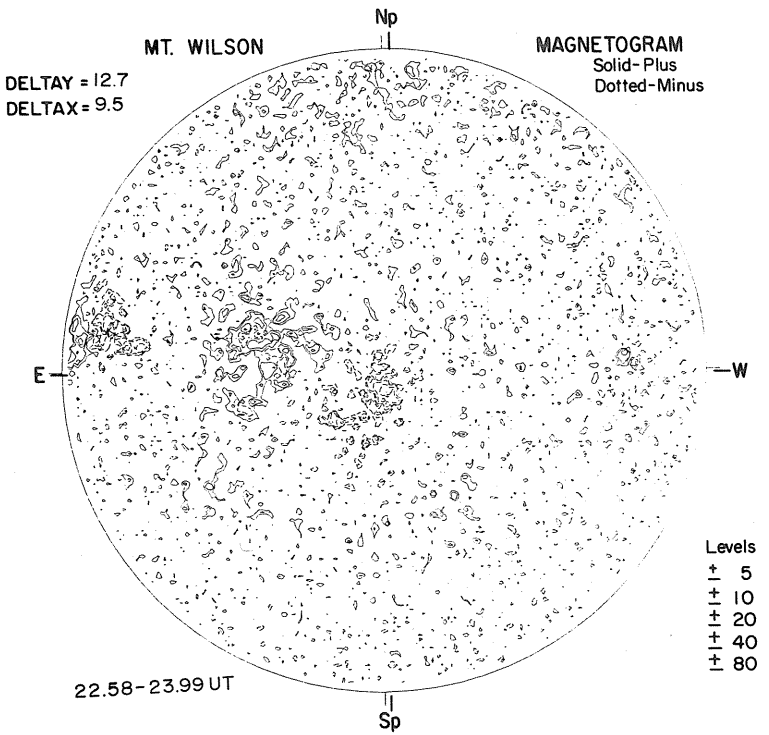


KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus

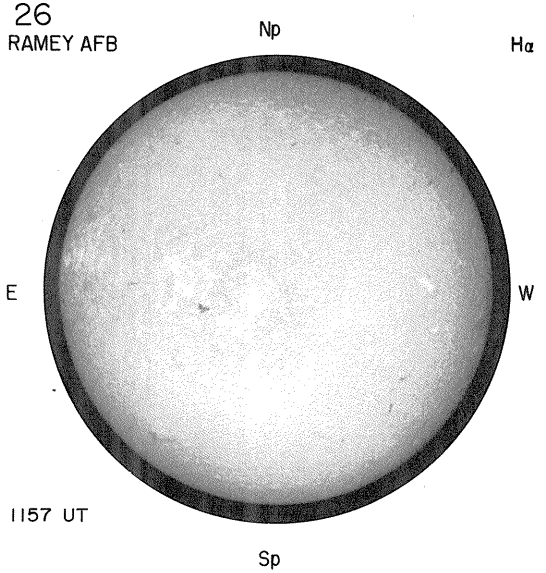




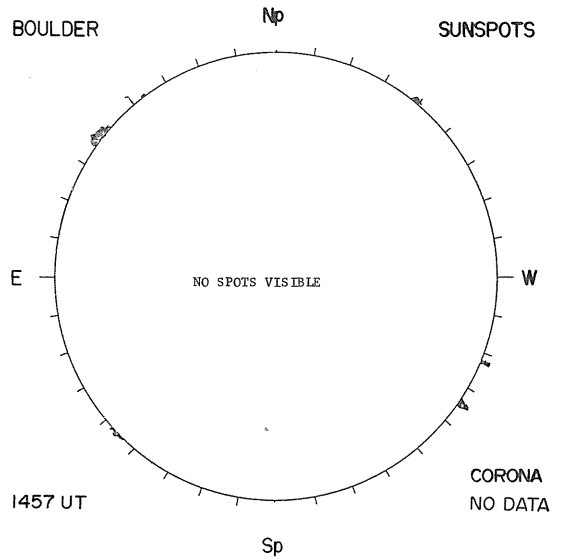


26

RAMEY AFB



BOULDER



NELC LA POSTA

2.0 CM

Np

E W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Np

E W

Sp

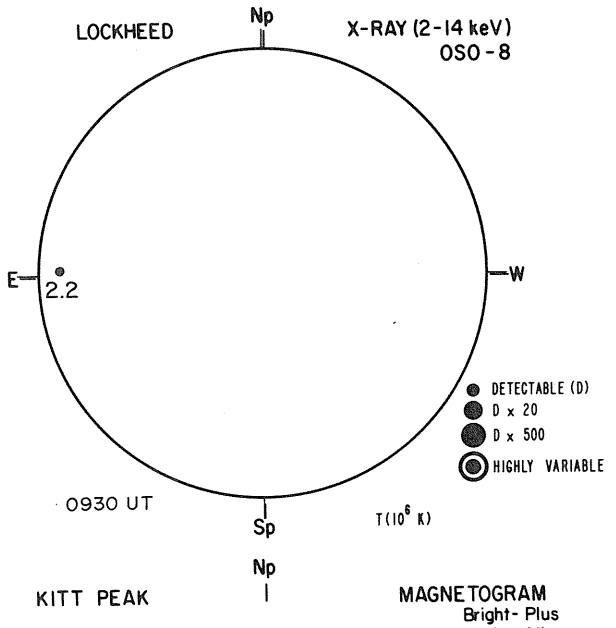
Ant. Temp. Unit 100°K

75
Sep 75

SEPTEMBER 27, 1975 (P = 25.64, B_o = 6.90, L_o = 334.21)

LOCKHEED

X-RAY (2-14 keV)
OSO-8

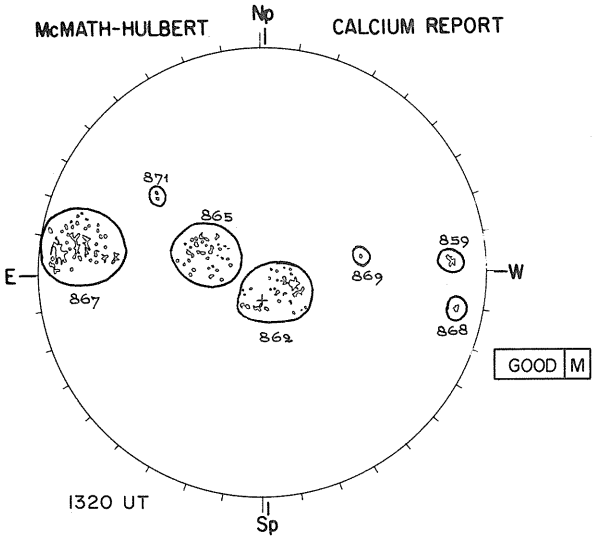


KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

McMATH-HULBERT

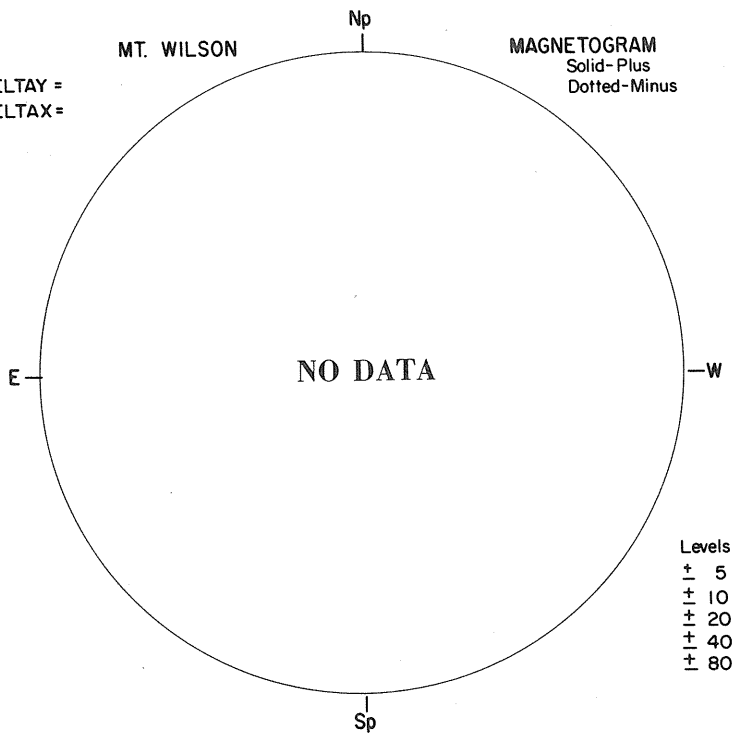
CALCIUM REPORT

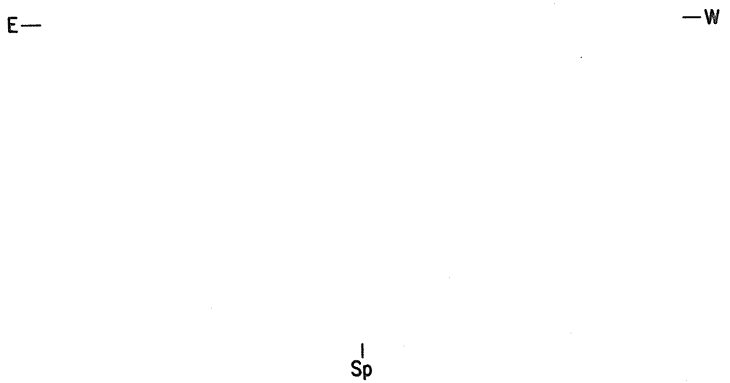


MT. WILSON

MAGNETOGRAM
Solid - Plus
Dotted - Minus

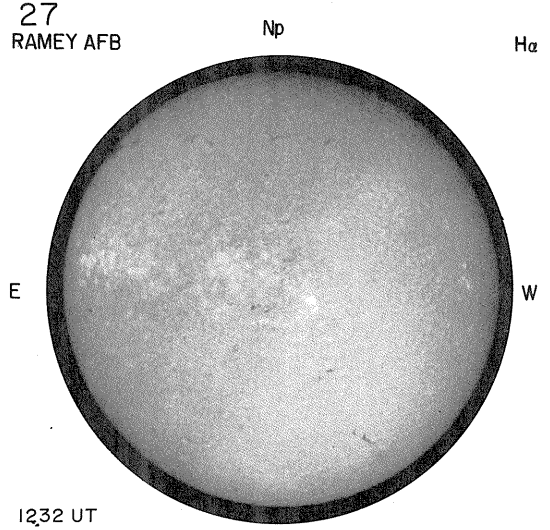
DELTAY =
DELTAX =



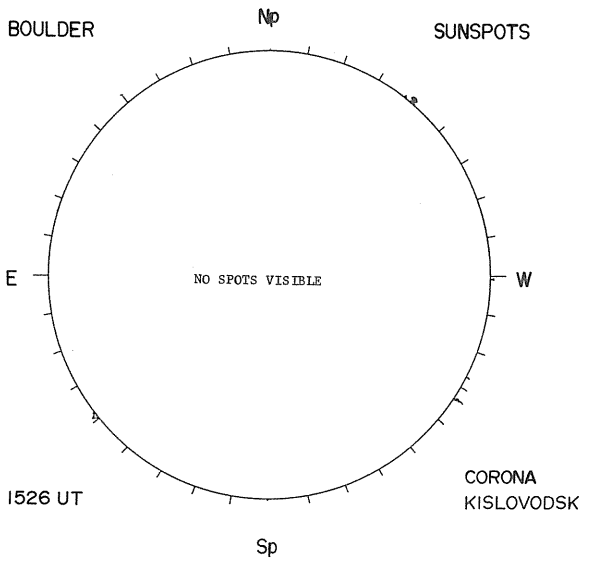


27

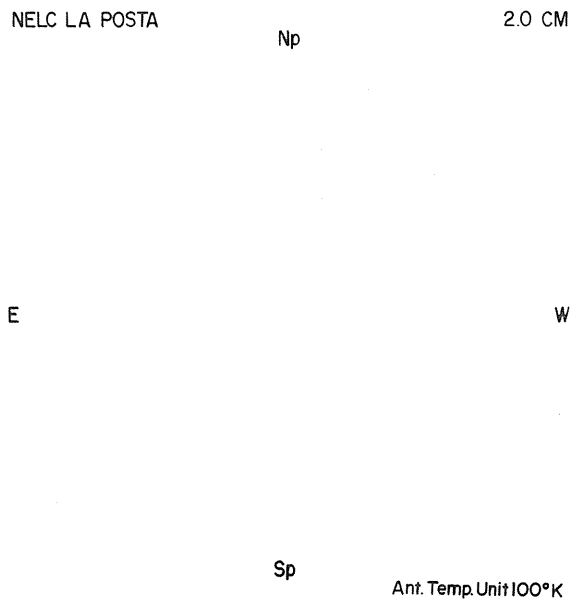
RAMEY AFB



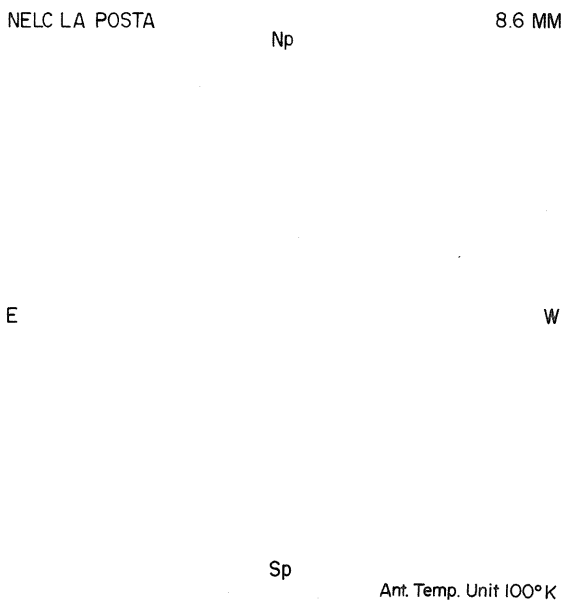
BOULDER



NELC LA POSTA

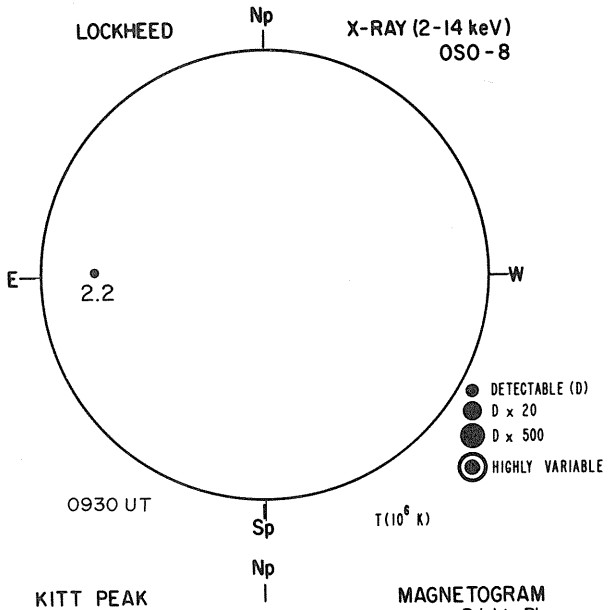


NELC LA POSTA



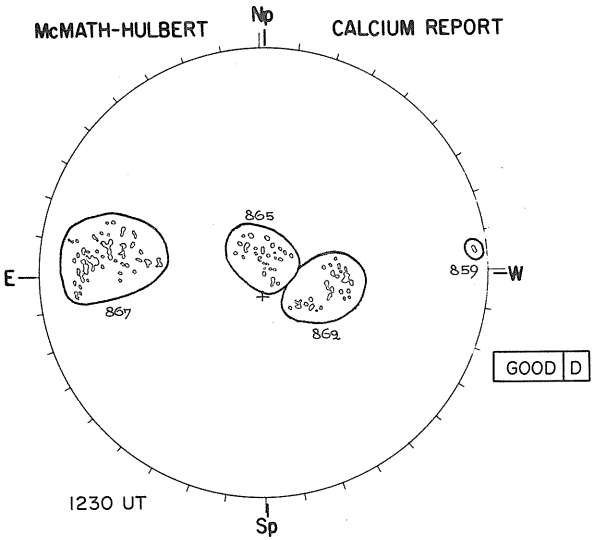
77
Sep 75

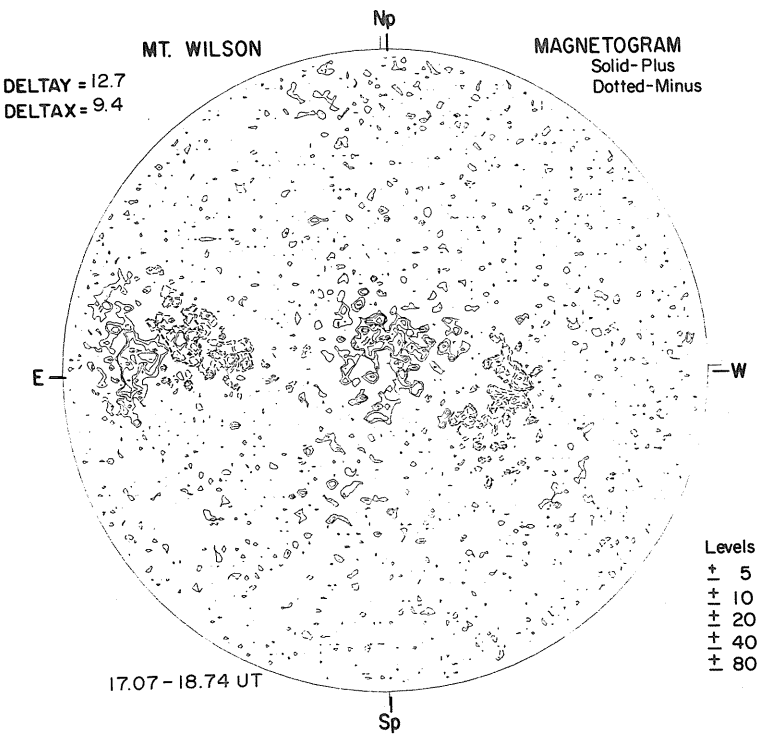
SEPTEMBER 28, 1975 (P =25.73, B_o =6.86, L_o =321.01)



KITT PEAK

MAGNETOGRAM
Bright- Plus
Dark - Minus

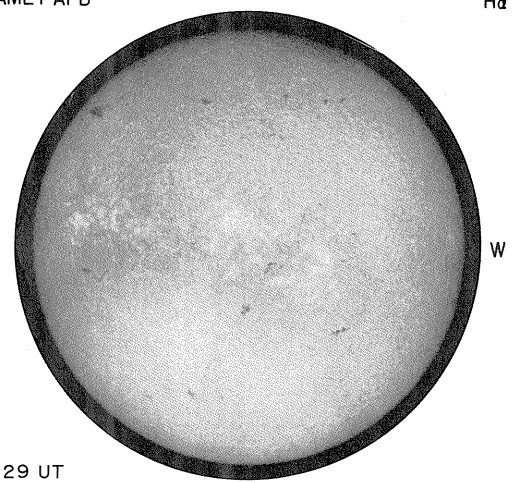




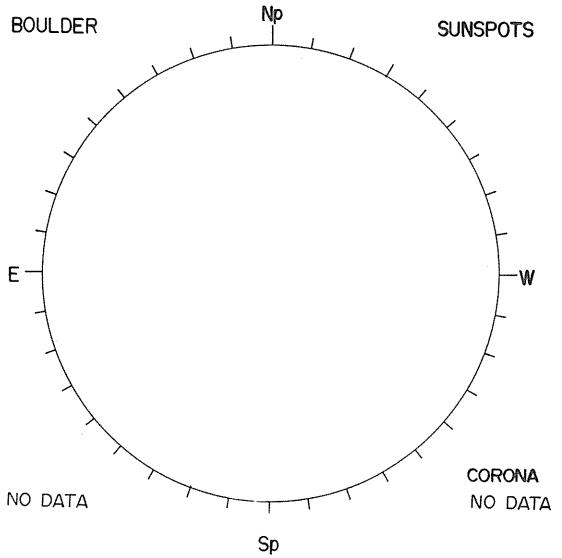
E— —W

Sp

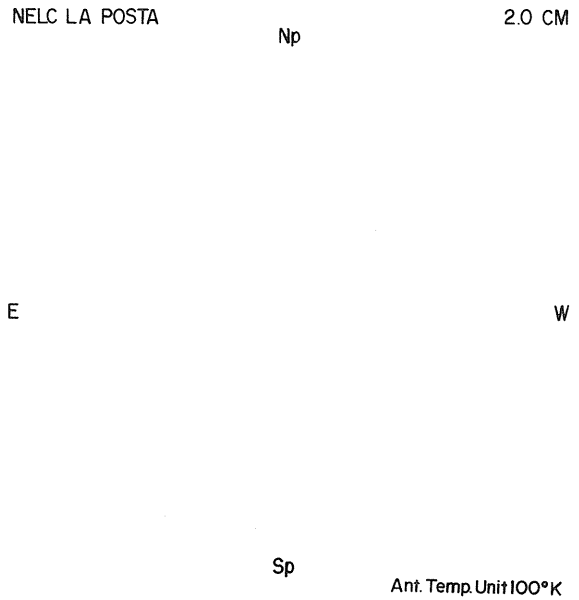
28
RAMEY AFB



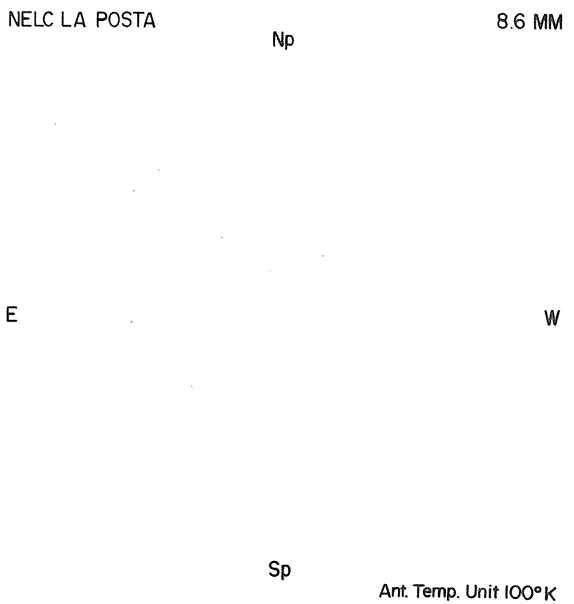
BOULDER



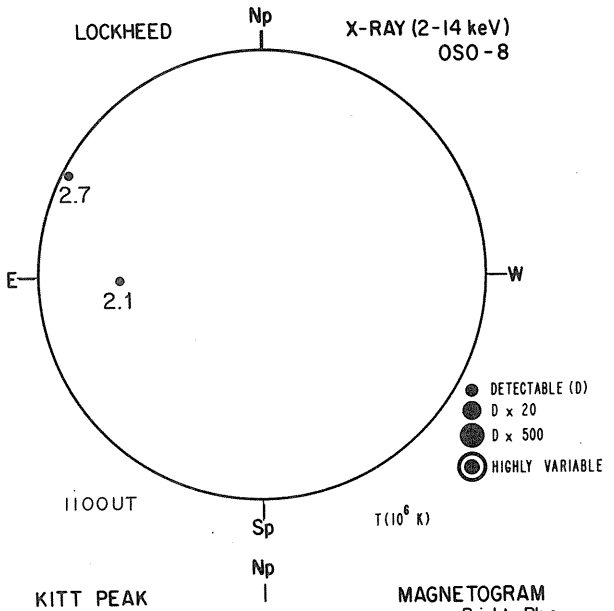
NELC LA POSTA

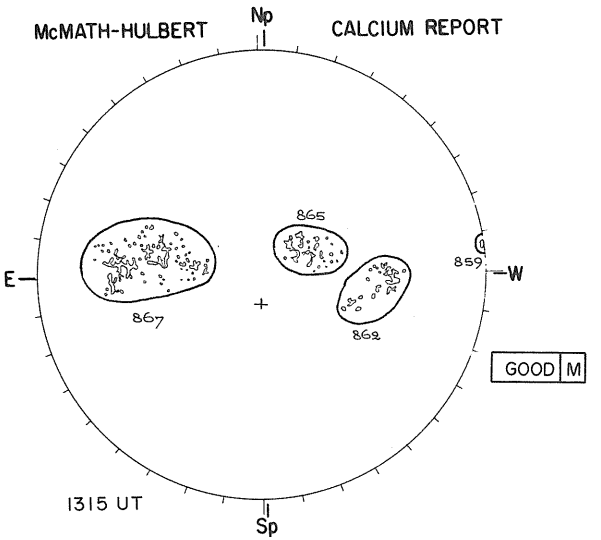


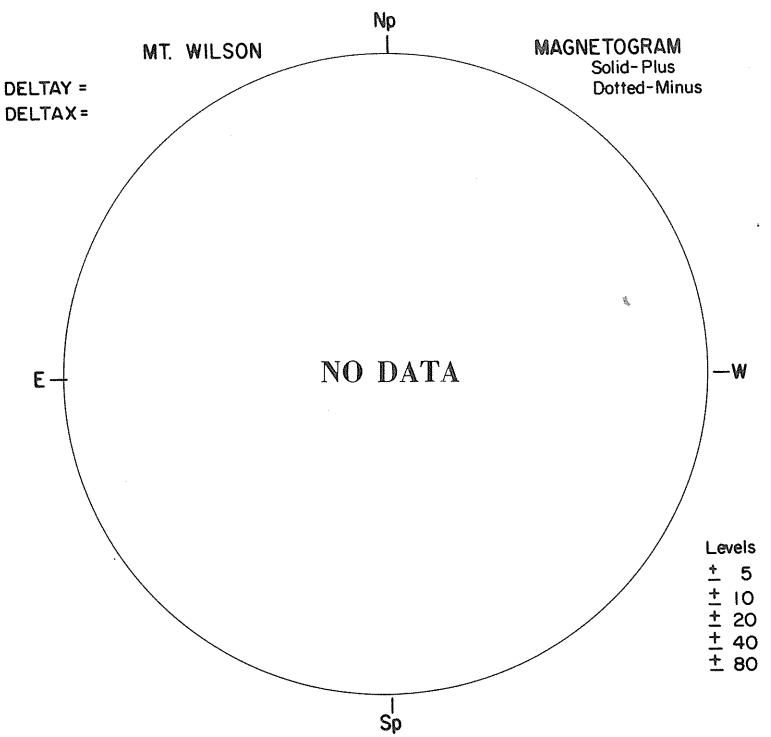
NELC LA POSTA



SEPTEMBER 29, 1975 (P=25.82, B_o=6.82, L_o=307.82)



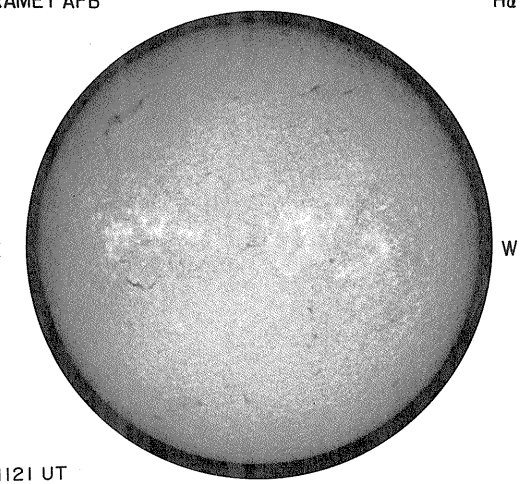




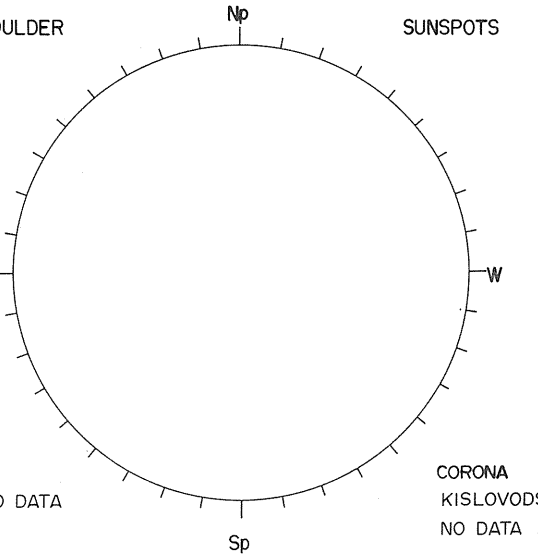
E— —W

Sp

29
RAMEY AFB



BOULDER

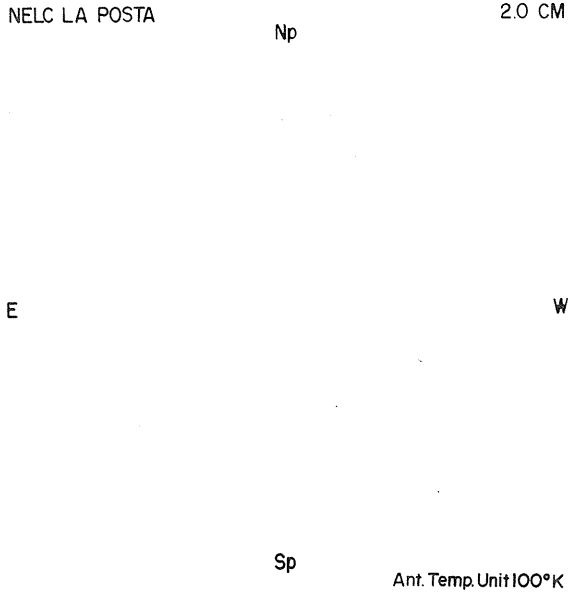


SUNSPOTS

NO DATA

CORONA
KISLOVODSK
NO DATA 125°

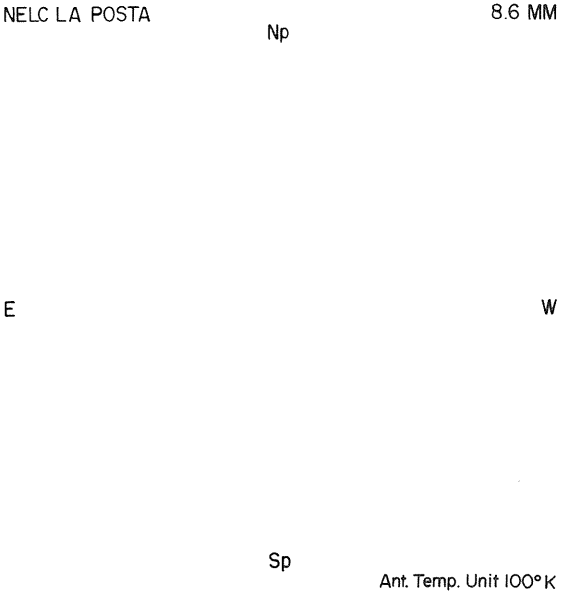
NELC LA POSTA



2.0 CM

Ant. Temp. Unit 100°K

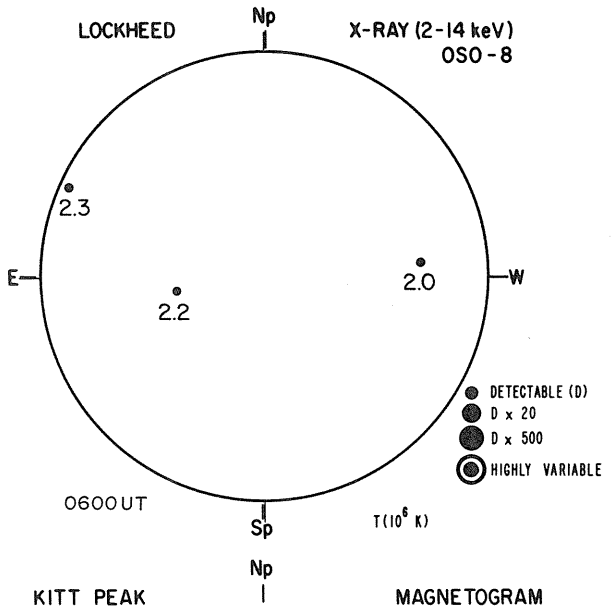
NELC LA POSTA



8.6 MM

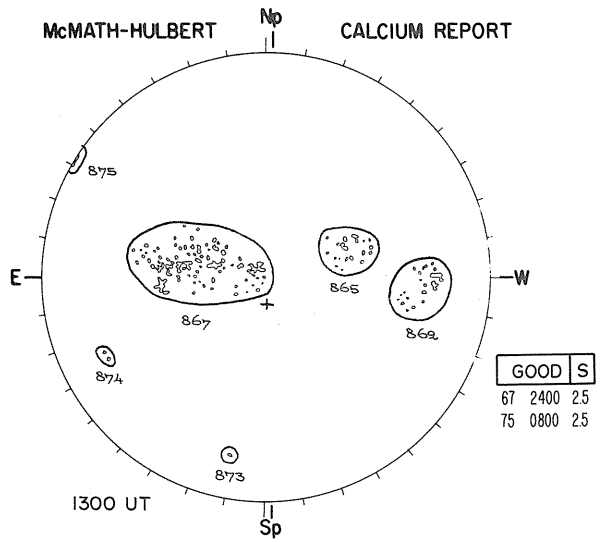
Ant. Temp. Unit 100°K

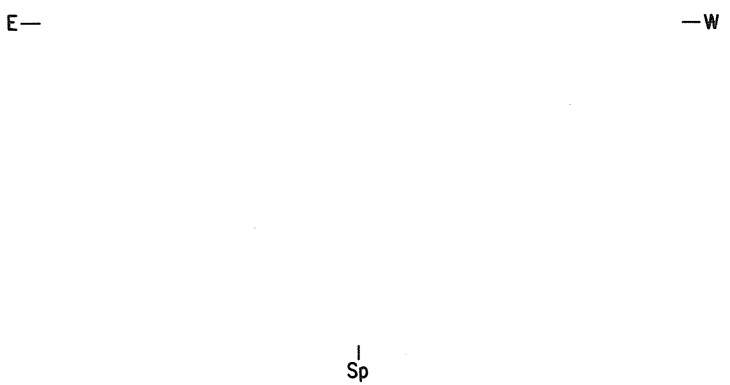
SEPTEMBER 30, 1975 (P =25.90, B_0 =6.78, L_0 =294.62)

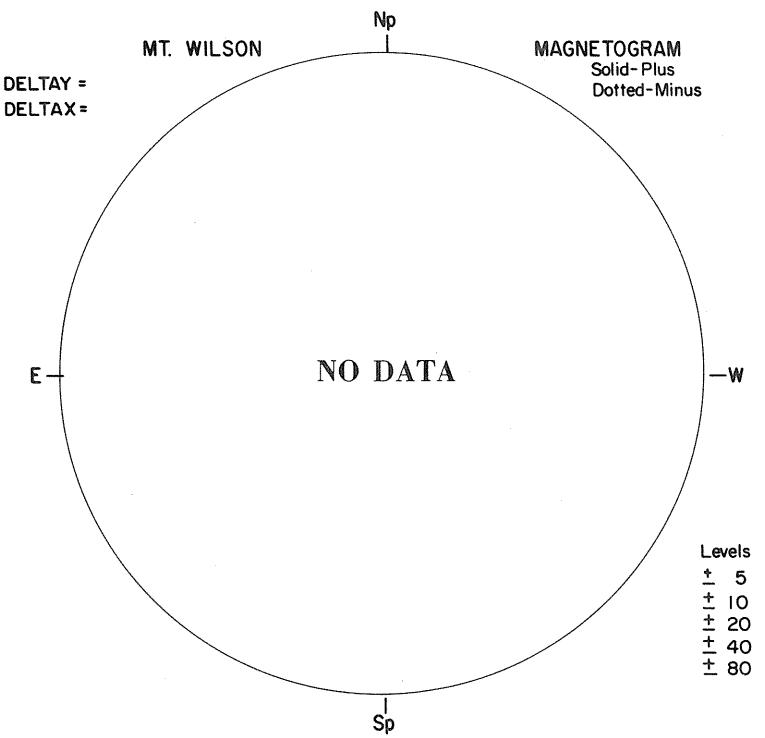


KITT PEAK

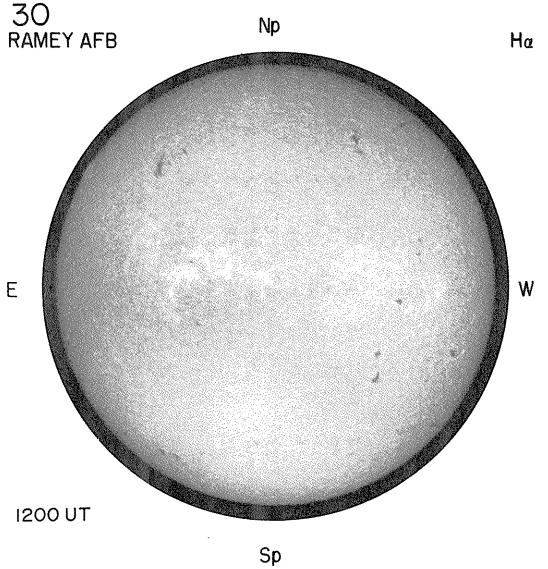
MAGNETOGRAM
Bright- Plus
Dark - Minus



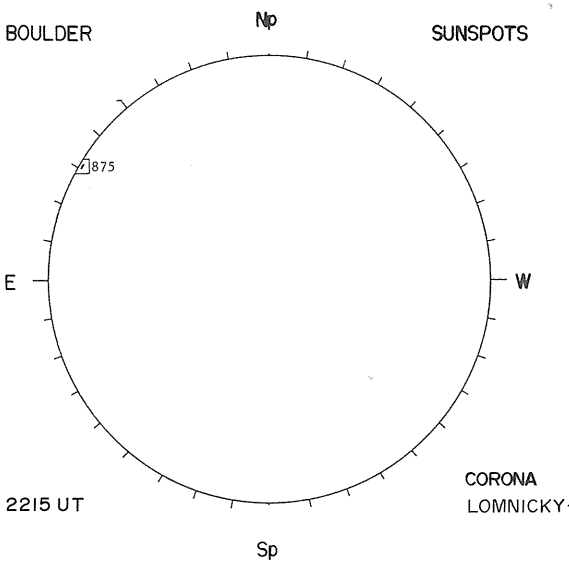




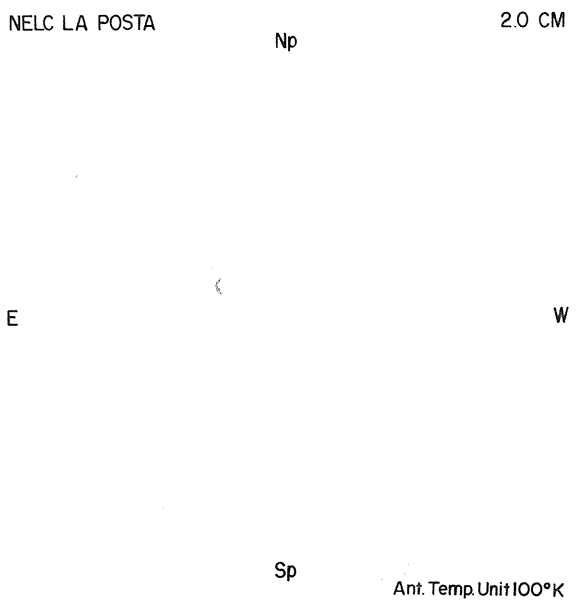
30
RAMEY AFB



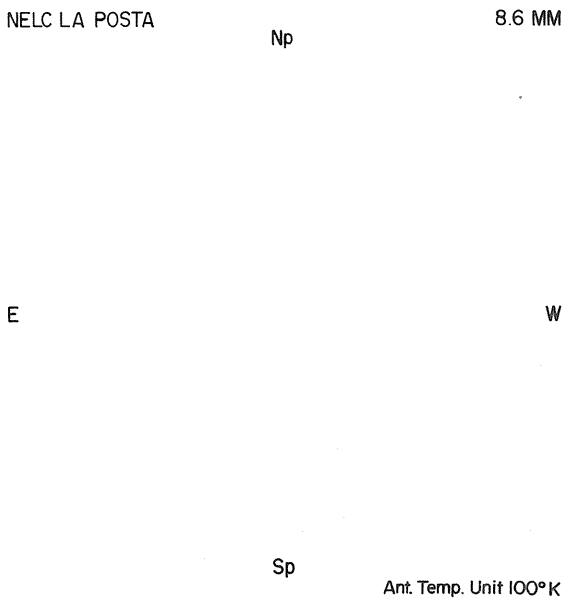
BOULDER



NELC LA POSTA



NELC LA POSTA



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MCMATH REGION 13820 CMP DATE 1.1 RETURN OF REGION 13786 ROTATION 4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	8	25	13820	N04 E86	318	900	2.0
75	8	26	13820	N04 E70	319	2500	2.5
75	8	27	13820	N04 E60		2000	2.5
75	8	28	13820	N04 E47	318	2500	2.5
75	8	29					
75	8						
75	8	30					
75	8	31					
75	8						
75	9	1					
75	9	2	13820	N05 W20	314	2500	2.5
75	9	3	13820	N05 W33	316	2500	2.0
75	9	4	13820	N05 W46	316	2500	2.0
75	9	6	13820	N06 W72	316	2100	1.5
75	9	7	13820	N08 W80	310	1200	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19612	N03 E80	324	X	2	B	10	1	AXX
19612	N03 E68	323	A					
19614	N00 E41	323	A					
19614	N00 E26	325	(AP)	3	B	0	7	BXO
19616	N10 E39	312	(A)	3	B	0	2	BXO
19614	N00 E11	326	(AP)	2	B	10	1	AXX
19614	N00 W02	326	X		R	20	6	BXI
	S01 E01				R	20	6	BXI
	S01 W13				B	10	6	AXX
	S01 W27				R	10	3	BXO

MCMATH REGION 13827 CMP DATE 2.4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	2	13827	S36 W03	297	100	1.0

SUNSPOT DATA

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

MCMATH REGION 13826 CMP DATE 5.0 RETURN OF REGION 13790 ROTATION 2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	8	28	13826	N08 E83	282	800	2.0
75	8	30					
75	8						
75	8	31					
75	9	1					
75	9						
75	9						
75	9	2	13826	N08 E32	262	5000	3.0
75	9						
75	9	3	13826	N08 E20	263	5000	3.0
75	9						
75	9	4	13826	N08 E07	263	5500	3.0
75	9						
75	9						
75	9						
75	9						
75	9						
75	9	5					
75	9						
75	9						
75	9						
75	9						
75	9						
75	9	6	13826	N10 W20	264	5700	3.0
75	9						
75	9						
75	9						
75	9						
75	9	7	13826	N10 W30	260	5200	3.0
75	9						
75	9						
75	9						
75	9						
75	9	8	13826	N09 W44	261	5600	3.0
75	9	9	13826	N09 W59	263	5300	3.0
75	9	10	13826	N09 W71	261	5000	2.5
75	9	11	13826	N09 W85	262	4000	2.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19615	N09 E77	287	AP					
19615	N12 E50	287	A					
19617	N07 E78	259	(AF)	2	B	10	2	AXX
19617	N08 E60	264	(BF)	1				
19618	N07 E32	276	(BP)	1	B	0	2	AXX
19617	N08 E43	265	(BP	2	B	10	1	HHX
	N07 E53				B	10	3	BXO
19618	N07 E21	273						
19617	N06 E37	257	BF)	3	R	20	4	CRO
19617	N07 E20	261	(BF)	3	B	20	23	BXO
	N07 E16				B	0	4	AXX
19619	N07 W15	283	(AP)	1				
19618	N10 W05	273	(AF)	1	B	0	2	AXX
19617	N08 E08	260	(B)	3	B	120	43	CAI
	N02 E15				B	10	4	AXX
	N11 E18				B	10	4	BXO
	N07 E03				B	10	2	AXX
19619	N07 W29	282						
19618	N10 W19	272			B	10	4	BXO
19617	N08 W06	259	(B)	3	B	140	31	CAI
	S02 E27				B	0	5	BXO
	N08 E03				B	10	3	BXO
	N05 W10				B	20	5	BXO
19619	N09 W40	282	(AF)	1				
19618	N10 W31	273	(AP)	2	B	20	3	BXO
19617	N08 W17	259	(B)	3	B	130	25	CAI
	N06 E06				B	0	1	AXX
	N08 W09				B	50	7	BXO
19617	N06 W31	257			B	70	15	DAO
	N08 W22				B	20	2	AXX
	N09 W05				B	20	3	BXO
	N03 W36				B	20	3	BXO
	S01 W24				B	20	2	AXX
19617	N09 W45	260	(AF)	1				

MCMATH REGION 13830 CMP DATE 6.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	3	13830	S09 E40	243	100	1.0
75	9	6					

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
	S12 W09				B	0	1	AXX

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MCMATH REGION 13840 CMP DATE 7.4

				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	9	12	13840	N36 W67	231	100	1.0									

MCMATH REGION 13847 CMP DATE 9.3

				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	14	13847	N17 W69	207	300	1.5									

MCMATH REGION 13848 CMP DATE 9.7

				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	9	14	13848	S24 W64	202	200	1.0									

MCMATH REGION 13833 CMP DATE 11.0

				CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	7	13833	N30 E46	184	100	2.0									

MCMATH REGION 13835 CMP DATE 11.9

				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	9	8	13835	S28 E45	172	100	1.5									

MCMATH REGION 13831 CMP DATE 12.1 RETURN OF REGION 13811 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	9	6	13831	N28 E76	168	400	1.5									
75	9	7	13831	N28 E63	167	400	1.5									
75	9	8	13831	N28 E50	167	400	1.5									
75	9	9	13831	N28 E35	169	500	1.5									
75	9	10	13831	N28 E20	170	200	1.5									
75	9	11	13831	N28 E07	170	200	1.5									
75	9	12	13831	N28 W06	170	500	1.0									
75	9	13	13831	N28 W19	170	500	1.0									
75	9	14	13831	N28 W25	163	500	1.0									
75	9	15	13831	N28 W44	167	400	1.0									
75	9	16	13831	N28 W58	169	300	1.0									
75	9	17	13831	N28 W71	168	200	1.0									

MCMATH REGION 13832 CMP DATE 12.2 RETURN OF REGION 13796 ROTATION 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	9	6	13832	S09 E73	171	1400	2.0	19620	S10 E76	166	(AP)	3	B	20	1	HHX
75	9	7	13832	S08 E58	172	1800	2.5	19620	S09 E59	167	(AP)	4	B	120	1	HHX
75	9								S11 E68				B	20	1	AXX
75	9	8	13832	S08 E45	172	2000	2.5	19620	S09 E48	167	(AP)	5	B	90	2	HSX
75	9								S09 E55				B	0	1	AXX
75	9	9	13832	S08 E33	171	1900	2.5	19620	S09 E34	168	(AP)	4	B	110	1	HSX
75	9								S09 E40				B	40	3	AXX
75	9	10	13832	S08 E21	169	1800	2.5	19620	S09 E20	167	(AP)	4	R	70	1	HSX
75	9	11	13832	S08 E09	168	1600	2.5	19620	S09 E08	168	(BP)	4	R	80	4	HSX
75	9	12	13832	S08 W05	169	2000	3.0	19620	S09 W09	167	(AP)	4	R	70	3	CSO
75	9	13	13832	S08 W18	169	2000	3.0	19620	S09 W18	167	(AP)	4	M	60	3	CSO
75	9	14	13832	S08 W30	168	2300	3.0	19622	S07 W49	185	6F)	2				
75	9							19620	S09 W31	167	(BP)	4	B	60	1	HXX

(Cont'd)

(Cont'd)

75	9	15	13832	S08 W44	167	2000	3.0	19620	S09 W45	168	(AP)	4	B	60	2	HSX
75	9	16	13832	S08 W59	170	1800	2.5	19620	S09 W60	166	AP		B	50	2	HSX
75	9	17	13832	S08 W64	161	1400	2.0	19620	S08 W71	167	(AP)	2	B	30	1	HSX

MCMATH REGION 13838 CMP DATE 13.6

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	9	13838	N09 E55	149	200	1.5								
75	9	10	13838	N09 E40	150	100	1.0								

MCMATH REGION 13836 CMP DATE 14.2

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	8	13836	N27 E75	142	100	1.5								

MCMATH REGION 13852 CMP DATE 14.7

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	9	16	13852	N01 W25	136	100	2.5								

MCMATH REGION 13851 CMP DATE 15.7

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	9	15	13851	S18 E01	122	100	1.0								
75	9	16	13851	S18 W12	123	100	1.0								
75	9	17	13851	S18 W24	121	100	1.0								
75	9	20	13851	S18 W64	122	100	1.5								
75	9	21	13851	S18 W76	121	100	1.0								

MCMATH REGION 13855 CMP DATE 15.8

CALCIUM PLAGE DATA | SUNSPOT DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS
75	9	20	13855	S11 W64	122	100	2.0								

MCMATH REGION 13843 CMP DATE 16.0

CALCIUM PLAGE DATA | SUNSPOT DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS
75	9	12	13843	S33 E46	118	100	1.0								
75	9	13	13843	S34 E33	118	100	1.0								

MCMATH REGION 13856 CMP DATE 16.7

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	9	20	13856	S39 W52	110	200	2.5								
75	9	21	13856	S39 W62	107	100	1.0								

MCMATH REGION 13861 CMP DATE 16.9

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	9	21	13861	N12 W62	107	100	1.0								

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MCMATH REGION 13845 CMP DATE 17.9

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	12	13845	S09 E72	92	600	2.0
75	9	13	13845	S09 E60	91	700	2.0
75	9	14	13845	S08 E46	92	800	2.5
75	9	15	13845	S09 E30	93	900	2.5
75	9	16	13845	S09 E17	94	800	2.0
75	9	17	13845	S09 E05	92	700	2.0
75	9	20	13845	S09 W35	93	600	2.0
75	9	21	13845	S09 W48	93	400	1.5
75	9	23	13845	S09 W78	96	400	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19621	S08 E68	90	AP					
19621	S08 E53	96	AP		M	10	1	AXX
19621	S08 E41	95	(AP)	1				

MCMATH REGION 13846 CMP DATE 18.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	13	13846	N08 E65	86	100	1.0
75	9	14	13846	N08 E52	86	100	1.5
75	9	15	13846	N08 E38	85	200	2.0
75	9	16	13846	N08 E25	86	200	1.5
75	9	17	13846	N08 E12	85	300	2.5
75	9	18					
75	9	19					
75	9	20	13846	N09 W29	87	600	2.5
75	9	21	13846	N09 W42	87	700	2.5
75	9	22					
75	9	23	13846	N09 W69	87	700	2.5
75	9	24	13846	N09 W83	89	600	2.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19623	N08 E25	81	A					
19623	N08 E10	86	(BF)	3	B	10	9	BXO
19623	N09 W03	87	(D)	3	B	40	11	BXO
19623	N09 W16	87	(D)	3	B	20	16	BXO
19623	N09 W29	87	(BF)	3	B	80	6	BXI
19623	N09 W43	88	(B)	3	B	30	6	BXO
	N10 W53				B	0	1	AXX

MCMATH REGION 13857 CMP DATE 18.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	20	13857	N04 W28	86	300	2.5
75	9	21	13857	N04 W42	87	500	2.0
75	9	23	13857	N04 W69	87	400	1.5
75	9	24	13857	N04 W84	90	100	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19624	N04 W28	86	(BP)	3	B	20	4	BXI
19624	N04 W42	87	(B)	2	B	10	3	BXO

MCMATH REGION 13853 CMP DATE 18.6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	17	13853	N19 E14	83	100	1.5

SUNSPOT DATA

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

MCMATH REGION 13854 CMP DATE 20.8

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	17	13854	N41 E43	54	100	2.0

SUNSPOT DATA

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

MCMATH REGION 13849 CMP DATE 20.9 RETURN OF REGION 13818 ROTATION 2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	14	13849	S14 E84	54	300	1.0
75	9	15	13849	S14 E70	53	500	2.0
75	9	16	13849	S14 E56	55	1100	2.5
75	9	17	13849	S14 E44	53	1000	2.5
75	9	20	13849	S15 E04	54	800	2.0
75	9	21	13849	S15 W09	54	600	2.0
75	9	23	13849	S14 W37	55	600	2.0
75	9	24	13849	S14 W50	56	600	2.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19625	S16 E01	57	(B)	1	B	10	2	BXO
	S10 W20				B	10	3	BXO

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MCMATH REGION 13868 CMP DATE 22.9

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	27	13868	S07 W61	27	200	1.0

SUNSPOT DATA

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

MCMATH REGION 13859 CMP DATE 23.2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	20	13859	N08 E35	23	300	2.0
75	9	21	13859	N08 E22	23	500	2.0
75	9	22					
75	9	23	13859	N07 W05	23	400	2.0
75	9	24	13859	N07 W18	24	400	2.5
75	9	27	13859	N07 W58	24	300	2.0
75	9	28	13859	N07 W70	24	200	1.0
75	9	29	13859	N07 W85	25	200	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19626	N06 E34	24	(BP)	2	8	20	4	BXI
19626	N06 E21	24	(BF)	2	8	20	4	BXO
19626	N06 E07	24	(BP)	2	8	10	7	BXO

MCMATH REGION 13858 CMP DATE 23.6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	20	13858	S26 E39	19	200	2.0
75	9	21	13858	S26 E27	18	100	1.5

SUNSPOT DATA

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

MCMATH REGION 13863 CMP DATE 23.9

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	23	13863	S05 E05	13	200	1.5

SUNSPOT DATA

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

MCMATH REGION 13860 CMP DATE 24.8

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	20	13860	S06 E55	3	300	2.5
75	9	21	13860	S06 E43	2	200	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
	S15 E43			8	0	1	AXX	

MCMATH REGION 13864 CMP DATE 25.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	23	13864	S40 E26	353	100	1.5

SUNSPOT DATA

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

MCMATH REGION 13869 CMP DATE 25.6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	27	13869	N10 W26	352	100	1.0

SUNSPOT DATA

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

MCMATH REGION 13876 CMP DATE 27.0

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	10	01	13876	N32 W60		200	1.5

SUNSPOT DATA

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

REGIONS OF SOLAR ACTIVITY

SEPTEMBER 1975

MCMATH REGION 13862 CMP DATE 27.3 RETURN OF REGION 13820* 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	9	21	13862	N02 E76	330	700	1.5									
75	9	23	13862	N02 E45	334	700	2.0									
75	9	24	13862	N02 E33	334	600	2.0									
75	9	25						19627	N03 E21	330	(AP)	2	B	10	1	AXX
75	9	27	13862	N02 W04	330	1000	2.0									
75	9	28	13862	N03 W16	330	1200	2.0									
75	9	29	13862	N04 W30	330	1300	2.0									
75	9	30	13862	N03 W42	329	1100	2.0									
75	10	01	13862	N04 W64		1000	1.5									
75	10	02	13862	N04 W77		700	1.0									

MCMATH REGION 13866 CMP DATE 28.2

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	24	13866	S32 E49	318	100	1.0									

MCMATH REGION 13865 CMP DATE 28.6 RETURN OF REGION 13820* 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	9	23	13865	N11 E64	315	500	1.5									
75	9	24	13865	N12 E53	314	700	1.5									
75	9	27	13865	N12 E14	312	800	1.5									
75	9	28	13865	N11 E01	313	800	1.5									
75	9	29	13865	N12 W12	312	900	1.5									
75	9	30	13865	N12 W24	311	700	1.5									
75	10	01	13865	N12 W40		700	2.5									
75	10	02	13865	N12 W53		700	1.5									
75	10	03	13865	N12 W66		500	1.5									
75	10	04	13865	N12 W78		400	1.5									

MCMATH REGION 13877 CMP DATE 28.8

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	03	13877	S05 W63		200	1.5									

MCMATH REGION 13871 CMP DATE 29.9

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	9	27	13871	N26 E31	295	100	1.0									

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

Note: Region 13831 is a return of the active new cycle region 13811 of the previous rotation.
Region 13832 experienced a resurgence on the disk during the previous rotation.
Region 13845 is new plage that has developed near the location of old region 13807.
Region 13846 has formed amongst remnants of old plage 13808 of the previous rotation.
No calcium spectroheliograms were obtained at the McMath-Hulbert Observatory on September 5, 18, 19, 22, 25 and 26, 1975.
Sunspot observations were made at Mt. Wilson Observatory on all days during September 1975.

DAILY CALCIUM PLAGE INDEX

SEPTEMBER 1975

YR	MO	DAY	INDEX	YR	MO	DAY	INDEX	YR	MO	DAY	INDEX
75	9	1	*	75	9	11	4.6	75	9	21	5.1
75	9	2	18.5	75	9	12	6.8	75	9	22	*
75	9	3	18.2	75	9	13	6.8	75	9	23	4.2
75	9	4	19.6	75	9	14	7.9	75	9	24	3.8
75	9	5	*	75	9	15	7.1	75	9	25	*
75	9	6	17.5	75	9	16	5.9	75	9	26	*
75	9	7	16.1	75	9	17	5.3	75	9	27	5.6
75	9	8	15.6	75	9	18	*	75	9	28	7.0
75	9	9	12.3	75	9	19	*	75	9	29	7.3
75	9	10	8.1	75	9	20	6.0	75	9	30	8.4

* NO OBSERVATIONS

SUDDEN IONOSPHERIC DISTURBANCES

SEPTEMBER 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
11	2007	2033	2015	1-	1	1							2017E	13832
12	1621	1715	1631	5	1	2		2			9		1613	X-RAY

PERIODS OF NO OBSERVATIONS:

DATE	TIME (UT) and STATION
01-05	0000-2400 A1
01-30	0000-2400 A36
01	0000-2400 A33, 0440-0615 UM (10 kHz), 0725-0906 UM (10 kHz), 0942-1016 UM (10 kHz), 1953-2045 UM (10 kHz), 2055-2153 UM (10 kHz)
02	0000-2400 TN, 0523-0600 TM, 0705-0855 UM (10 kHz), 0834-1259 TM, 0917-0949 UM (10 kHz), 1129-1229 MC 1606-1810 TM, 1955-2050 UM (10 kHz)
03	0735-0909 UM (10 kHz), 0950-1020 UM (10 kHz), 1600-2105 TM, 1938-2143 UM (10 kHz)
04	0430-0503 TM, 0455-0530 UM (10 kHz), 0640-0840 TM, 0745-1000 UM (10 kHz), 0918-2400 TM, 1948-2030 UM (10 kHz)
05-15	0000-2400 A30
05	0500-0540 UM (10 kHz), 0753-0914 UM (10 kHz), 1600-1904 TM, 1935-2007 UM (10 kHz), 2012-2058 UM (10 kHz)
06-07	0000-2400 A29
06	0745-0817 UM (10 kHz), 1000-1040 UM (10 kHz), 1921-1956 UM (10 kHz), 2004-2037 UM (10 kHz)
07	0519-0625 UM (10 kHz), 0657-0750 UM (10 kHz), 0802-0943 UM (10 kHz), 1950-2035 UM (10 kHz), 2045-2132 UM (10 kHz)
08	0444-0520 UM (10 kHz), 0753-1007 UM (10 kHz), 1953-2027 UM (10 kHz), 2100-2155 UM (10 kHz), 2254-2332 TM
09	0500-0605 UM (10 kHz), 0752-0932 UM (10 kHz)
10	0740-0945 UM (10 kHz), 1925-2026 UM (10 kHz)
11	0740-0932 UM (10 kHz), 1942-2024 UM (10 kHz)
12	0828-0912 UM (10 kHz), 0940-1020 UM (10 kHz), 2004-2150 UM (10 kHz)
13-14	1229-1316 MC
13	0620-0730 UM (10 kHz)
14	0237-0329 UM (10 kHz), 0401-0445 UM (10 kHz), 0825-0858 UM (10 kHz), 0944-1044 UM (10 kHz)
15-17	0000-2400 A4
15	0750-0920 UM (10 kHz), 1637-1648 TM, 1714-1838 TM, 1943-2020 UM (10 kHz)
16	0730-0915 UM (10 kHz), 0930-1007 UM (10 kHz), 1000-1340 UM (16 kHz), 1953-2030 UM (10 kHz), 2007-2016 TM
17	0746-1000 UM (10 kHz), 1904-1955 UM (10 kHz), 2044-2320 UM (16 kHz)
18	0800-0908 UM (10 kHz), 2036-2155 UM (16 kHz)
19	0800-0915 UM (10 kHz), 1743-1815 UM (10 kHz), 2153-2230 UM (10 kHz)
20	0445-0523 UM (10 kHz), 0540-0616 TM, 0652-0702 TM, 0758-0826 UM (10 kHz), 1025-1058 UM (10 kHz), 1842-1925 UM (10 kHz), 2045-2123 UM (16 kHz)
21-22	0000-2400 A37
21	0000-2400 TN, 0732-1013 UM (10 kHz), 2050-2140 UM (10 kHz)
22	0735-0916 UM (10 kHz), 1140-1227 UM (10 kHz), 1829-1905 UM (10 kHz)
23	0707-1035 UM (10 kHz), 1000-1345 UM (16 kHz), 1400-1408 TM, 1641-1716 TM
24	0753-1013 UM (10 kHz), 1837-1930 UM(10 kHz), 2050-2135 UM (10 kHz)
25	0744-0920 UM (10 kHz), 2033-2150 UM (16 kHz)
26	0730-0929 UM (10 kHz), 1010-1055 UM (10 kHz), 1855-1940 UM (10 kHz)
27	0000-0030 UM (10 kHz), 0740-0835 UM (10 kHz), 0920-1016 UM (10 kHz), 1820-1930 UM (10 kHz)
28	0747-0846 Um (10 kHz)
29	0753-0843 UM (10 kHz), 1040-1120 UM (10 kHz), 1800-1910 UM (16 kHz), 1806-1907 UM (10 kHz), 2010-2200 UM (10 kHz)
30	0137-0428 UM (10 kHz), 0810-0905 UM (10 kHz), 1745-1910 UM (10 kHz)

STATIONS REPORTING FOR SEPTEMBER 1975

AAVSO (A1, A4, A19, A21, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A40) (SES) (A1, A26, A31) (SEA) (A31) (SWF)
DARMSTADT (DA) (SWF)
DEBRE ZEIT (DE) (SPA)
HERSTMONCEUX (HC) (SEA)
HIRAISO (HI) (SWF)
HOBART (TA) (SEA)
INUBO (IN) (SPA)
MC MATH (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

SEPTEMBER 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
REGION																														
32													1																	
X-RAY															1															
UNKNOWN																														
NO FP																														

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

SEP 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	
01	0000	1009	MANI							0451.6	0451.9	3	III
	0514	1754	DURN										
	0648	1716	WEIS										
	1011	2314	SGMR										
	1302	2245	HARV										
	2146	2400	MANI										
	1421	2400	BOUL							2229.0	2230.0	1	III
02	0000	0130	BOUL										
	0000	1007	MANI										
	0515	1752	DURN										
	0525	1411	WEIS										
	1013	2313	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	1445	1725	WEIS										
	2146	2400	MANI										
03	0000	1006	MANI										
	0000	0130	BOUL										
	0517	0621	DURN										
	0528	1720	WEIS										
	0638	1750	DURN										
	1014	2311	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
04	0000	1005	MANI										
	0000	0130	BOUL										
	0519	1748	DURN										
	0526	0921	WEIS										
	0930	1715	WEIS										
	1015	2309	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
05	0000	1005	MANI										
	0000	0130	BOUL										
	0521	1746	DURN										
	0530	1710	WEIS										
	1016	2308	SGMR										
	1230	2400	BOUL										
	1302	2245	HARV				1824	1825	2				IIIG
			HARV				2056		3				IIIB
	2146	2400	MANI										
06	0000	1005	MANI										
	0000	0130	BOUL										
	0520	1744	DURN										
	1017	2306	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
07	0000	1004	MANI										
	0000	0130	BOUL										
	0520	1157	DURN										
	1018	2304	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	1449	1743	DURN										
	2146	2400	MANI										
08	0000	0840	MANI										
	0000	0130	BOUL										
	0520	0915	DURN										
	0745	1721	WEIS										
	0933	1741	DURN										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

SEP 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	
08	1019	2302	SGMR										
	1230	2400	BOUL										
	1302	2245	HARV										
	2146	2400	MANI										
09	0000	1002	MANI										
	0000	0130	BOUL										
	0521	1740	DURN										
	0540	1415	WEIS										
	1020	2300	SGMR										
	1230	2400	BOUL										
	1300	2245	HARV										
	1430	1706	WEIS										
	2146	2400	MANI										
10	0000	1001	MANI										
	0000	0130	BOUL										
	0522	1737	DURN										
	0540	1707	WEIS										
	1021	2259	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
11	0000	1001	MANI										
	0000	0130	BOUL										
	0523	1735	DURN										
	0542	1102	WEIS										
	1022	2257	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	1330	1708	WEIS										
	2146	2400	MANI										
12	0000	0523	MANI										
	0000	0130	BOUL										
	0523	0607	DURN										
	0600	0636	MANI										
	0617	1733	DURN										
	0640	1708	WEIS										
	0645	1001	MANI										
	1023	2255	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
13	0000	1000	MANI										
	0000	0130	BOUL										
	0523	1732	DURN										
	0548	0950	WEIS										
	1024	2254	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
14	0000	1000	MANI										
	0000	0130	BOUL										
	0524	1731	DURN										
	1025	2252	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2147	2400	MANI										
15	0000	0959	MANI										
	0000	0130	BOUL										
	0526	1729	DURN										
	0650	1655	WEIS										
	1026	2250	SGMR										
	1230	2400	BOUL										
	1447	2245	HARV										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

SEP 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	
15	2147	2400	MANI										
16	0000	0595	MANI										
	0000	0130	BOUL										
	0527	1334	DURN										
	0546	1532	WEIS										
	1027	2248	SGMR										
	1230	2400	BOUL										
	1316	2245	HARV										
	1537	1652	WEIS										
	2148	2400	MANI										
17	0000	0959	MANI										
	0000	0130	BOUL										
	0547	1657	WEIS										
	0638	1724	DURN										
	1029	2247	SGMR										
	1230	2400	BOUL										
	1317	2245	HARV										
	2148	2400	MANI										
18	0000	0959	MANI										
	0000	0100	BOUL										
	0550	1312	WEIS										
	1030	2245	SGMR										
	0534	1724	DURN	1158.3	1158.5	2							IIIG,RS
	1300	2400	BOUL										
	1315	2245	HARV										
			DURN	1356.4	1357.3	3	1356.5	1356.6	2				IIIG
	1320	1652	WEIS				1356.5	1356.7	1				IIIG
			DURN	1357.4	1358.4	2							DCIM,C
	2148	2400	MANI										
19	0000	0958	MANI										
	0000	0100	BOUL										
	0535	1722	DURN										
	0549	1651	WEIS										
	1031	2243	SGMR										
	1316	2245	HARV										
	1500	2400	BOUL										
	2148	2400	MANI										
20	0000	0955	MANI										
	0000	0100	BOUL										
	0535	1447	DURN										
	0553	1026	WEIS										
	1032	2241	SGMR										
	1040	1647	WEIS										
	1230	2400	BOUL										
	1316	2245	HARV										
	2148	2400	MANI										
21	0000	0955	MANI										
	0000	0100	BOUL										
	0557	1649	WEIS										
	1033	2239	SGMR										
	1230	2400	BOUL										
	1316	2245	HARV										
	2148	2400	MANI										
22	0000	0953	MANI										
	0000	0100	BOUL										
	0534	1716	DURN										
	0559	0843	WEIS										
	0852	1642	WEIS	0941.2	0941.3	2							IIIB
	1034	2238	SGMR										
	1230	2400	BOUL										
	1316	2245	HARV										
	2148	2400	MANI										
23	0000	0953	MANI										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

SEP 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	
23	0000	0130	BOUL										
	0534	1714	DURN										
	0602	1644	WEIS										
	1035	2236	SGMR										
	1230	2400	BOUL										
	1317	2245	HARV										
	2148	2400	MANI										
24	0000	0953	MANI										
	0000	0100	BOUL										
	0535	1711	DURN										
	0604	0713	WEIS										
	1036	2234	SGMR										
	1300	2400	BOUL										
	1316	2245	HARV										
	2148	2400	MANI										
25	0000	0951	MANI										
	0000	0100	BOUL										
	0537	0844	DURN										
	0650	1637	WEIS										
	1037	2232	SGMR										
	1105	1657	DUPN										
	1300	2400	BOUL										
	1317	2245	HARV										
	2148	2400	MANI										
26	0000	0949	MANI										
	0000	0100	BOUL										
	0605	0703	DURN										
	0605	1620	WEIS										
	1038	2230	SGMR										
	1300	2400	BOUL										
	1316	2245	HARV										
	2147	2400	MANI										
27	0000	0948	MANI										
	0000	0100	BOUL										
	1039	2229	SGMR										
	1143	1654	DURN										
	1300	2400	BOUL										
	1318	2245	HARV										
	2147	2400	MANI										
28	0000	0507	MANI										
	0000	0100	BOUL										
	0602	1255	DURN										
	0800	0947	MANI										
	1040	2227	SGMR										
	1300	2400	BOUL										
	1317	2245	HARV										
	1439	1653	DURN										
	2147	2400	MANI										
29	0000	0115	MANI										
	0000	0100	BOUL										
	0200	0943	MANI										
	0602	1654	DURN										
	0655	1635	WEIS										
	1042	2225	SGMR										
	1300	2400	BOUL										
	1316	2245	HARV										
	2146	2400	MANI										
30	0000	0942	MANI										
	0000	0100	BOUL										
	0603	1655	DURN										
	0604	1605	WEIS										
	1043	2223	SGMR										
	1300	2400	BOUL										
	1317	2245	HARV										
	2145	2400	MANI										

COSMIC RAY INDICES

(Neutron Monitors)

SEPTEMBER 1975

SEPT. 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	4607.5	7549.2	7063.4	11850.6	9055.5	6352.9	-- (0)	3562.9
2	4591.9	7542.8	7045.0	11805.7	9022.0	6336.8	-- (0)	3562.4
3	4577.6	7520.9	7041.2	11786.6	8997.3	6346.1	-- (0)	3557.7
4	4578.0	7534.3	7057.1	11816.2	9024.9	6360.3	4248.6(30)	3562.5
5	4609.8	7568.2	7086.2	11913.5	9046.4	6391.1	4263.4(28)	3560.5
6	4588.4	7540.5	7106.0	11896.2	9076.8	6393.2	4283.9(26)	3569.1
7	4588.5	7584.5	7081.9	11886.4	9059.8	6379.9	4266.4(20)	3564.2
8	4561.4	7520.0	7075.9	11859.2	9067.2	6366.7	4274.3(14)	3567.8
9	4527.9	7488.1	7053.3	11806.9	9007.7	6355.5	4248.9(28)	3548.8
10	4528.8	7487.2	7034.0	11750.2	8983.9	6343.0	4250.5(28)	3540.4
11	4514.8	7474.8	7010.3	11778.8	8995.6	6341.0	4249.4(28)	3532.9
12	4507.0	7464.0	7013.4	11783.9	8975.4	6351.8	4238.3(30)	3532.8
13	4511.9	7492.0	7035.0	11808.5	8995.9	6362.3	4236.6(32)	3536.6
14	4520.8	7502.0	7034.1	11786.8	9003.0	6356.0	4247.8(26)	3542.2
15	4532.3	7510.5	7023.2	11789.9	9002.8	6324.9	4231.8(32)	3541.7
16	4534.8	7503.8	7040.7	11813.1	9037.8	6313.0	4241.4	3547.5
17	4543.2	7515.4	7050.4	11711.9	9011.2	6309.4	4244.7	3548.2
18	4527.5	7495.1	7014.3	11706.3	8974.9	6309.2	4240.9	3536.1
19	4488.3	7439.7	6955.3	11669.0	8933.1	6259.7	4209.9	3530.7
20	4488.6	7426.4	6978.7	11686.0	8927.8	6285.4	4217.0	3534.5
21	4498.7	7444.0	7000.9	11719.4	8942.7	6280.5	4220.6	3537.3
22	4503.0	7454.2	6995.0	11721.5	8948.4	6287.0	4208.2	3530.3
23	4503.2	7456.1	6996.5	11760.1	8970.4	6296.0	4213.1	3535.0
24	4527.0	7480.9	7016.5	11760.7	8996.4	6323.7	4231.1	3539.0
25	4559.1	7521.5	7030.0	11800.9	9019.2	6350.5	4234.7	3546.4
26	4566.8	7521.3	7030.6	11824.4	9036.8	6363.7	4254.4	3551.8
27	4540.4	7480.3	7016.9	11790.9	8999.1	6337.0	4261.3	3540.7
28	4550.3	7492.8	7026.8	11767.0	8986.2	6309.6	4242.5	3540.9
29	4560.7	7484.5	7029.7	11779.8	8998.4	6305.1	4243.5	3537.1
30	4566.7	-- (0)	7043.5	11822.4	9023.3	6320.0	4251.8	3545.7
MEAN	4543.5	7499.8	7032.8	11788.4	9004.0	6333.7	4242.8	3546.1

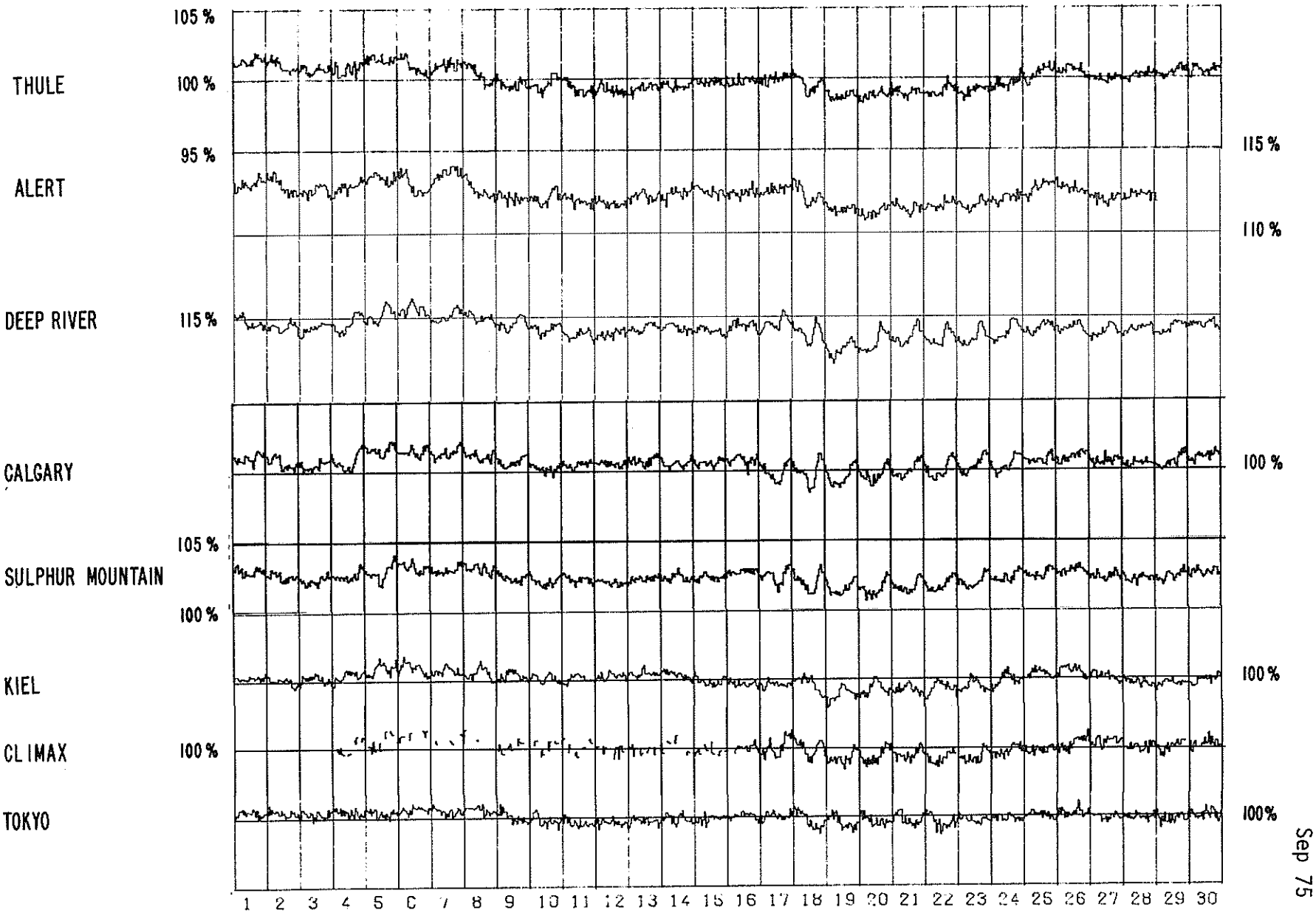
( ) Number of hours for which data are available if less than 24. Number of Section Hours at Climax if sum of both sections is less than 40 hours.

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)

SEPTEMBER 1975



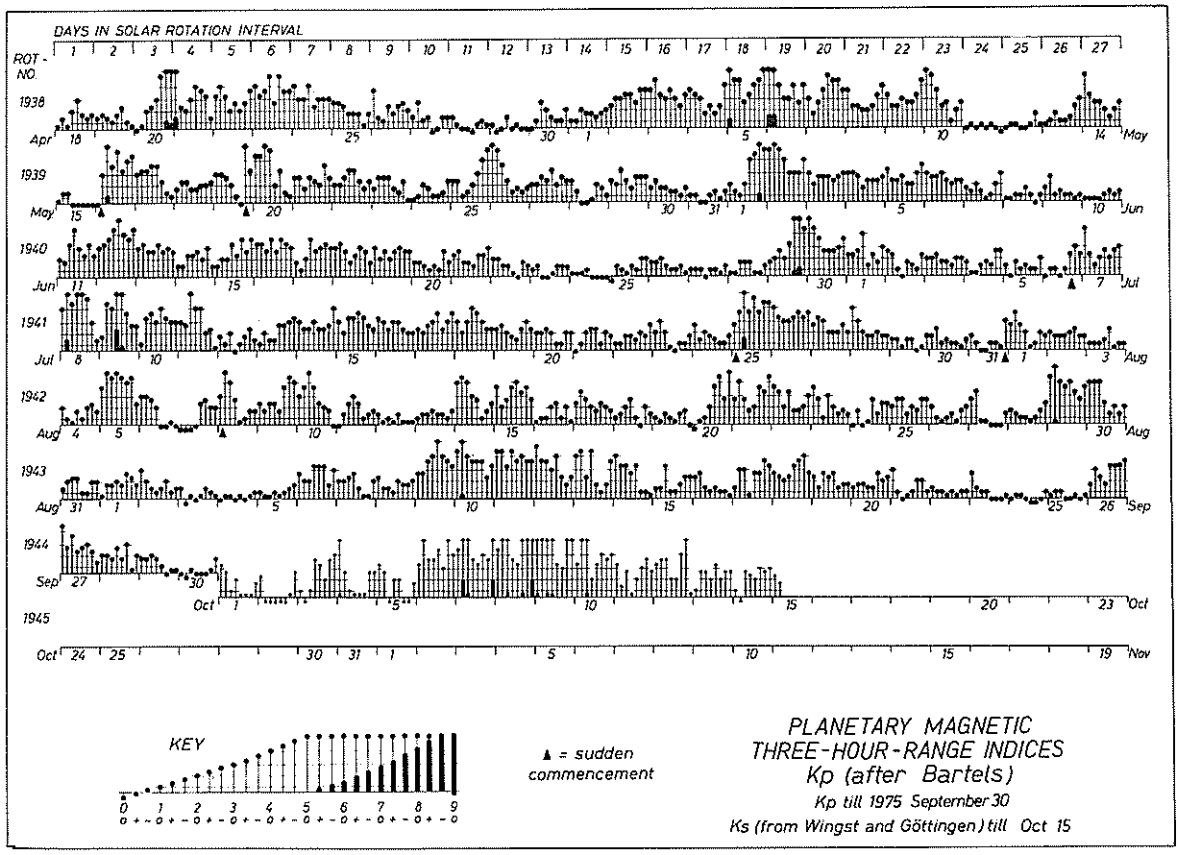
97
Sep 75

GEOMAGNETIC ACTIVITY INDICES

SEPTEMBER 1975

Day	Three-Hour Range Indices Kp									Cp	Ap	aa			
	1	2	3	4	5	6	7	8	Sum			N	S	M	
1	1-	2-	2-	2	2-	3-	2+	2-	14+	0.3	7	17	15	13 20	
2	3	2	1+	1	1+	2	1	1+	13	0.3	6	13	12	15 10	CK
3QQ	1+	0	1-	0+	1-	1+	1	1-	6	0.1	3	9	6	6 9	CC
4QQ	0+	1-	1-	0+	1-	0+	1-	1	5-	0.0	3	7	6	7 6	CC
5 Q	1	1-	1-	1	1-	1	1+	2-	8	0.1	4	8	7	6 9	CK
6	3-	2	2	3+	3+	3+	2-	3	21+	0.7	13	28	23	25 26	
7	2	2	2+	3-	1+	1-	1-	2	14-	0.3	7	14	9	16 8	C
8	2+	1+	1+	1	2	2-	2-	2	13+	0.3	6	15	8	9 15	C
9 D	3-	3-	4-	4	5	4	4-	3+	29	1.1	24	35	40	27 48	
10 D	4+	5+	4	4-	4-	4-	2+	3+	30+	1.2	26	37	42	43 36	
11 D	4+	4+	3+	4+	4-	4	4-	4-	31+	1.2	26	48	37	45 40	
12 D	5-	4-	4-	3	4	2+	2-	2+	25+	1.0	19	30	30	34 26	
13 D	4	4+	2+	4+	2-	1	2-	4-	23	0.9	17	33	21	36 18	
14	4	3+	3+	3-	3+	1	1	1-	19+	0.7	13	20	25	30 15	
15	1+	1+	3+	1	1	2-	2+	2+	14+	0.4	8	16	15	14 18	K
16 Q	2+	3-	1+	1	1+	1	1	1-	11+	0.3	6	10	6	8 9	CK
17	1+	3	3	1-	3-	3-	4-	3+	20+	0.7	13	26	23	19 31	
18	3-	2+	2	2+	3+	4-	4	3-	23	0.8	14	24	23	13 34	
19	2+	1+	3-	2+	3-	1+	2-	2-	16	0.4	8	15	15	15 16	
20	1+	2-	2-	1+	1+	3-	2	2+	14+	0.3	7	17	12	10 18	
21	3	1	0+	1-	1	2	2	1	11	0.3	6	12	10	11 12	CK
22 Q	1+	1	1	1-	1	1-	1	1	8-	0.1	4	9	7	9 7	CC
23 Q	3-	1+	1	1	0+	0+	0+	1-	8-	0.1	4	10	7	13 5	CC
24QQ	0+	1-	1-	0+	0	0	0+	1	3+	0.0	2	7	4	5 7	CC
25QQ	1-	1	1	0+	0+	1-	0+	1-	5	0.1	3	6	4	4 6	CC
26	2-	3	2+	2-	3+	3+	3+	4-	22+	0.8	14	32	23	14 37	
27	4+	3-	4-	2+	3-	3	2+	1+	22+	0.8	14	21	27	25 24	
28	2	2	2-	3-	2-	3	1-	2	16-	0.4	8	20	19	20 20	
29 Q	2-	2-	2	2-	1	0+	1-	1-	10-	0.2	5	10	9	11 8	CK
30QQ	0+	0	1-	0+	0+	0+	1-	2-	4+	0.0	2	6	5	5 6	CK
									MEAN	0.46	10	18.5	16.2	17.5	

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

	1974			1975								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	6	6	7	37	21	7	6	24	12	9	7
2	30	5	15	4	23	10	5	16	28	6	7	6
3	12	6	15	7	12	11	6	19	12	7	5	3
4	8	3	9	32	10	9	7	14	11	6	6	3
5	10	5	7	27	17	30	10	34	12	5	29	4
6	11	10	4	26	8	20	15	35	11	6	7	13
7	6	7	8	44	15	3	25	22	6	12	5	7
8	10	21	13	36	8	2	32	14	4	37	14	6
9	39	39	42	7	11	8	52	16	5	35	15	24
10	10	10	20	6	38	80	35	19	4	17	15	20
11	6	43	21	4	36	53	34	2	14	18	7	26
12	17	70	18	4	35	37	27	3	27	5	4	19
13	86	36	22	32	27	29	29	6	14	10	5	17
14	30	36	13	33	25	29	21	14	8	13	16	13
15	50	10	14	15	21	20	7	3	13	15	18	8
16	68	16	8	21	30	27	6	28	17	12	5	6
17	47	14	18	29	14	13	5	14	12	14	9	13
18	43	5	28	22	15	17	6	7	12	15	6	14
19	29	14	27	10	11	11	5	15	12	9	4	6
20	41	22	21	10	8	14	25	23	6	6	15	7
21	10	24	19	6	8	3	23	12	9	6	17	6
22	15	18	14	8	7	6	15	11	5	6	12	4
23	5	16	17	12	32	13	25	3	4	6	10	4
24	38	26	14	10	17	14	17	5	3	6	6	2
25	22	19	12	5	20	8	8	14	4	33	9	3
26	28	17	12	5	9	17	9	13	5	19	5	14
27	25	9	21	14	5	34	5	10	4	11	6	14
28	29	6	12	12	12	38	3	5	4	10	5	8
29	18	3	11	6		22	2	11	26	4	27	5
30	12	2	6	7		10	6	6	22	5	14	2
31	8		14	16		13		4		5	6	
MEAN	26	18	15	16	18	20	16	13	11	12	10	10

HOURLY EQUATORIAL Dst VALUES (PROVISIONAL)

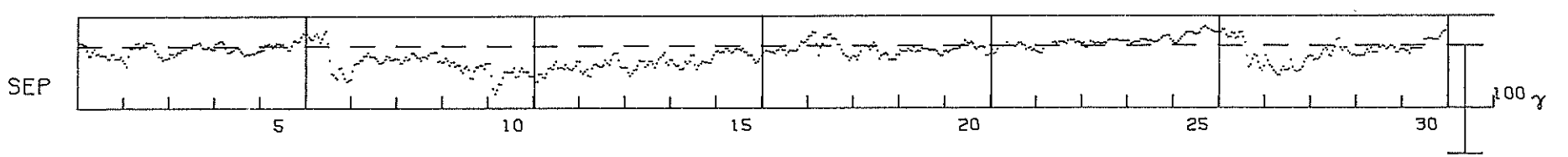
SEPTEMBER 1975

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	3	2	1	0	-4	-10	-10	-5	-3	-8	-7	-9	-9	-9	-10	-12	-12	-8	-7	-12	-12	-12	-10	-13
2	-16	-19	-9	-2	-2	-1	2	3	-2	-1	1	3	3	3	3	1	-5	-7	-10	-11	-13	-12	-12	-11
3	-8	-8	-10	-8	-6	-6	-4	-3	-3	-1	-1	-2	1	1	2	3	1	-2	-3	-3	-1	-3	-4	-4
4	2	3	4	4	2	-2	-6	-6	-5	-4	-2	-2	-3	-5	-7	-9	-8	-8	-8	-7	-8	-6	-5	-5
5	-4	-4	1	1	2	0	-2	0	2	2	1	1	-1	-1	-4	-4	0	4	4	3	4	8	11	10
6	10	8	6	5	9	11	8	3	6	11	13	2	-14	-26	-27	-29	-31	-21	-20	-26	-30	-33	-32	-31
7	-23	-17	-16	-16	-14	-13	-10	-9	-7	-10	-11	-11	-12	-14	-16	-16	-15	-13	-10	-11	-13	-13	-12	-12
8	-13	-16	-16	-14	-11	-13	-12	-7	-7	-9	-11	-12	-14	-11	-11	-12	-9	-7	-7	-6	-7	-15	-14	-16
9	-15	-12	-14	-18	-16	-15	-19	-18	-18	-23	-25	-21	-19	-22	-30	-31	-23	-20	-20	-18	-19	-21	-17	-16
10	-16	-28	-40	-45	-41	-35	-36	-29	-24	-24	-25	-24	-24	-21	-29	-28	-23	-21	-24	-25	-24	-28	-29	-29
11	-34	-33	-26	-26	-29	-30	-26	-21	-20	-22	-18	-15	-21	-21	-20	-22	-18	-20	-22	-23	-21	-19	-15	-15
12	-24	-26	-24	-22	-28	-29	-21	-18	-17	-19	-20	-20	-18	-14	-16	-18	-13	-8	-7	-7	-14	-20	-21	-20
13	-21	-25	-28	-26	-23	-22	-19	-14	-15	-15	-20	-18	-15	-15	-17	-20	-17	-13	-11	-9	-7	-16	-18	-13
14	-14	-17	-19	-19	-22	-22	-21	-15	-17	-15	-9	-9	-18	-22	-19	-17	-15	-16	-16	-17	-16	-13	-9	-6
15	-5	-7	-6	-6	-3	-3	-5	-7	-6	-4	-3	-4	-5	-3	-6	-7	-9	-10	-10	-13	-16	-15	-13	-10
16	-7	-5	-5	-6	-7	-7	-8	-5	-4	-2	-4	-5	-9	-7	-5	-5	-5	-5	-4	-1	3	2	3	5
17	8	9	12	11	1	-10	-2	1	7	7	9	10	6	6	5	0	0	-4	-8	-10	-11	-14	-12	-10
18	-11	-13	-10	-6	0	-1	-1	-2	-4	-2	2	-1	-5	-13	-10	-8	-7	-9	-13	-13	-13	-14	-9	-9
19	-5	-6	-6	-5	-3	-5	-6	-2	-6	-5	-6	-3	-4	-3	-4	-5	-5	-5	-4	-6	-8	-10	-10	-6
20	-5	-7	-5	-4	-3	-3	-4	-2	0	1	4	2	1	3	1	-2	-4	-2	-1	-2	-3	-10	-9	-8
21	-5	-8	-7	-4	-1	-1	-1	0	2	0	-1	-1	-2	0	2	2	0	-1	-4	-3	-2	-5	-4	-6
22	-7	-8	-8	-4	-1	-1	-1	0	2	3	1	3	3	3	2	1	4	5	5	4	2	3	2	1
23	2	-2	-3	-1	3	2	1	2	2	1	1	2	2	4	5	4	4	5	4	3	3	4	3	4
24	3	1	2	3	3	3	5	5	5	4	3	4	3	2	2	3	4	6	8	8	9	8	5	3
25	1	1	3	5	7	9	11	12	12	11	10	9	10	11	14	16	17	15	14	13	12	11	11	11
26	11	14	14	9	7	7	11	10	6	7	11	12	7	2	-11	-21	-19	-13	-10	-11	-17	-22	-24	-20
27	-10	-15	-19	-21	-24	-26	-28	-28	-24	-21	-23	-24	-22	-14	-21	-24	-25	-24	-23	-21	-16	-13	-11	-10
28	-11	-14	-13	-14	-12	-9	-5	-3	-5	-10	-11	-6	-2	5	6	-3	-5	-3	-2	-6	-8	-10	-9	-11
29	-10	-11	-10	-10	-8	-5	-7	-3	-7	-7	-7	-3	-3	-1	-2	-4	-3	-1	-1	-3	-7	-7	-5	-4
30	-4	-6	-6	-8	-4	-3	-4	-3	-3	-3	-1	5	5	6	6	5	4	4	5	7	10	12	13	17



PRINCIPAL MAGNETIC STORMS

SEPTEMBER 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
AL	09.5N	6	07--	..	..	..	..	06(5,6)	5	5	112	34	06	18
HD	07.6N	6	0000	..	..	..	..	06(5,6)	5	7	123	31	07	15
AN	01.5N	6	07--	..	..	..	..	--	-	5	149	56	06	18
TV	01.1S	6	07--	..	..	..	..	--	-	3	197	45	06	18
HD	07.6N	8	1200	..	..	..	..	09(6)	5	5	104	30	12	16
CO	64.6N	9	01--	..	..	..	..	09(5) 11(4) 12(5)	7	230	1860	680	12	16
SI	60.0N	9	0720	SC	+ 3.7	0	- 4.4	11(4)	6	60	600	560	12	16
NE	55.1N	9	00--	..	..	..	..	10(2)	6	43	103	198	14	14
BD	48.9N	9	02--	..	..	..	..	10(2)	6	30	90	59	14	18
GN	43.2S	9	04--	..	..	..	..	09(5,6) 10(5) 11(4)	5	18	80	110	11	18
KG	56.5S	9	06--	..	..	..	..	10(1,2)	5	--	--	--	13	06
KG	56.5S	13	21--	SC	..	..	..	13(8) 14(1,2)	4	--	--	--	14	15
HD	07.6N	17	0401	SC	- 0.4	+17	- 2	17(2)	4	6	77	32	18	22
AL	09.5N	26	08--	..	..	..	..	26(5)	5	2	101	21	26	20
HD	07.6N	26	0330	..	..	..	..	26(5,6)	5	4	115	26	28	20
GU	04.0N	26	1015	..	..	..	..	26(5)	5	0	60	10	27	17
AN	01.5N	26	08--	..	..	..	..	--	-	2	109	41	26	20
TV	01.1S	26	08--	..	..	..	..	--	-	1	137	41	26	20
PM	18.7S	26	04--	..	..	..	..	27(5)	5	4	110	30	28	18

Reports were received from the following observatories:

College Witteveen Tucson Honolulu Guam Huancayo Apia 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

SEPTEMBER 1975

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

The meaning of the station symbols is given in the IACA-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)

n o n e

Sudden impulses found in the magnetograms (si)

n o n e

Solar-flare effects (sfe)

Effects confirmed by ionospheric or solar observations are underlined.

12	1229 - 1241	SZ	20	1408 - 1418	SZ
13	0806 - 0813	SZ	28	1331 - 1347	SZ
19	0917 - 0924	SZ	28	1610 - 1621	LG SZ
19	1830 - 1838	LG			

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

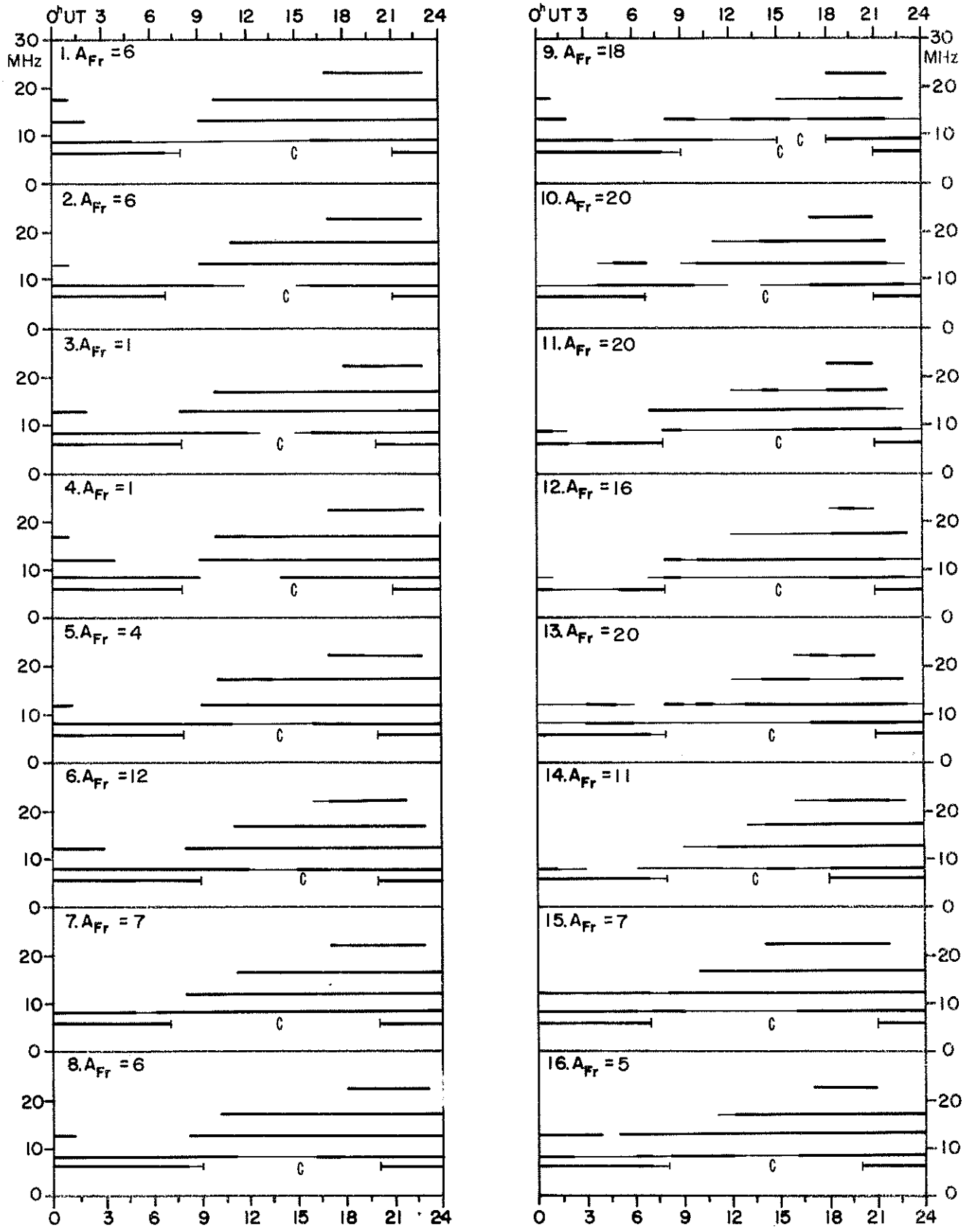
SEPTEMBER 1975

North Atlantic

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

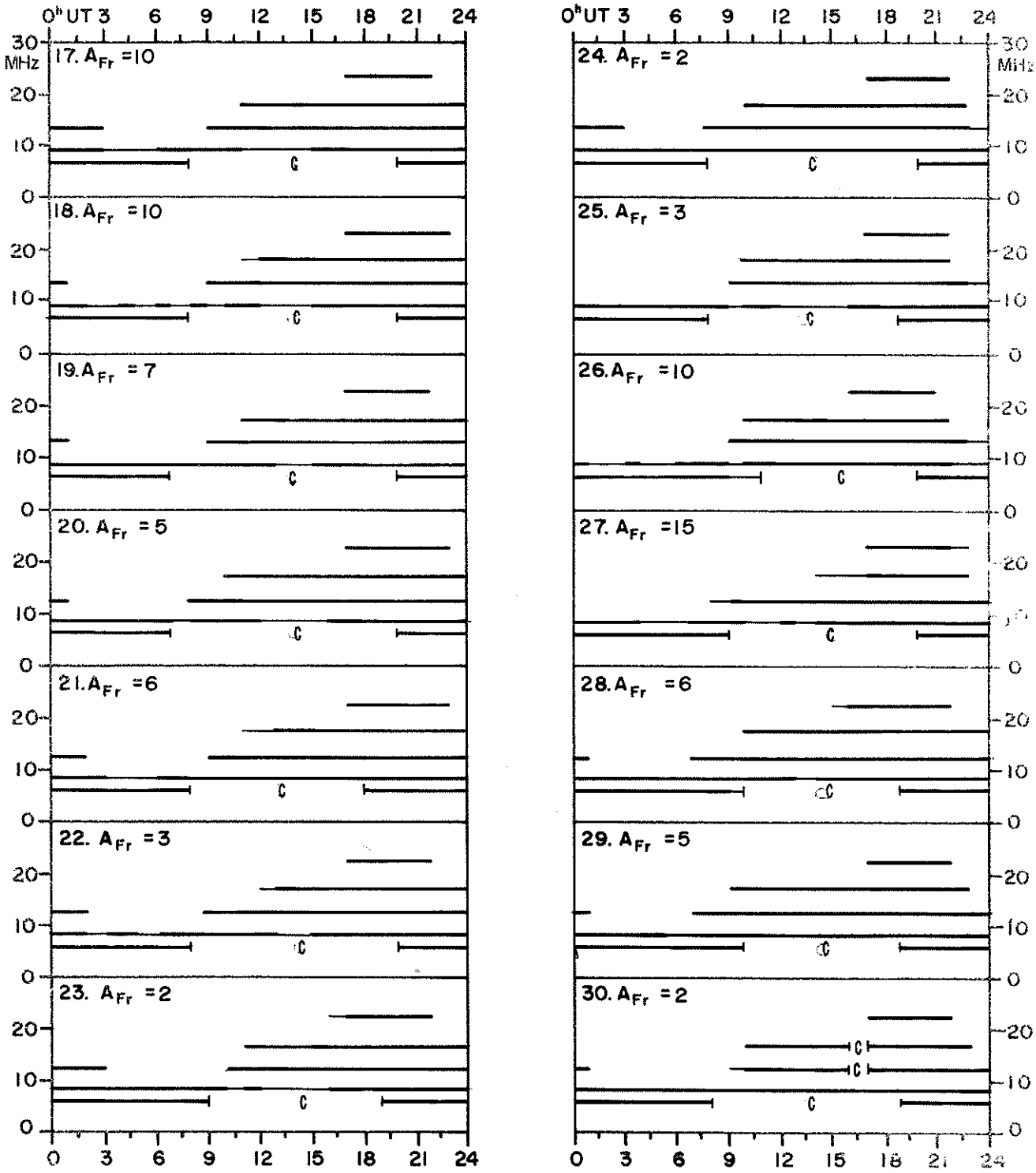
TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

SEPTEMBER 1975



TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

SEPTEMBER 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.

Adopted from Observations by Deutsche Bundespost

RADIO PROPAGATION QUALITY INDICES

SEPTEMBER 1975

Quality Indices calculated for reception at Lüchow

	TOKYO	HALIFAX	MAURITIUS	CANBERRA	BRACKNEL
1	8.1	8.3	6.9	6.6	13.5
2	8.1	8.7	7.0	6.9	14.1
3	8.5	9.1	7.0	6.7	13.4
4	8.9	9.7	6.8	6.1	12.7
5	9.1	10.3	6.2	6.2	13.9
6	7.9	9.1	7.0	5.9	13.8
7	7.4	9.5	7.0	5.9	13.7
8	8.3	8.8	4.9	6.2	13.6
9	7.4	5.7	5.6	5.9	13.5
10	6.6	5.6	5.9	5.6	13.3
11	6.6	5.3	5.2	5.0	12.8
12	7.8	5.9	5.9	5.1	12.7
13	7.2	5.9	5.7	4.9	12.9
14	7.9	6.1	5.8	5.1	12.8
15	8.3	7.8	6.0	5.5	12.8
16	7.9	9.0	6.3	5.4	13.0
17	8.0	8.5	6.6	5.4	13.8
18	8.4	7.2	6.7	5.8	14.1
19	10.2	8.6	6.8	5.8	13.9
20	10.0	8.7	6.4	5.8	14.2
21	9.4	8.6	6.9	5.8	14.1
22	9.3	8.9	6.2	5.6	14.4
23	8.9	9.5	6.2	5.3	14.1
24	9.5	9.3	5.7	5.7	14.2
25	9.1	8.6	5.4	5.5	14.1
26	9.7	8.1	4.6	5.3	13.8
27	9.6	6.9	4.9	5.7	13.2
28	9.6	8.7	4.7	5.5	13.5
29	9.2	9.0	5.2	5.8	14.2
30	8.9	9.0	8.0	5.7	13.8
MEAN	8.5	8.1	6.1	5.7	13.6

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

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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."