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NO. 501 MAY 1986

Part I (Prompt Reports)

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APRIL 1986

MARCH 1986

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5	Jan 60 - Dec 60	Microfilm	13	Jan 67 - Dec 67	Microfilm	21	Jul 71 - Dec 71	Microfilm
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S O L A R - G E O P H Y S I C A L D A T A

NUMBER 501

(Issued in Two Parts)

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(Table not available at time of publication.)

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ALERT PERIODS
INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

SUMMARY OF THE GEOALERT MESSAGES

APRIL 1986

NO	DI	DO	WOLF	10CM	A	LOC	TOT	M	X	OUTSTANDING EVENTS	DA	LOC	DE	ALERTS
091	01	31	000	071	008	SPOTN1L					01	SPOTN1L		SOLQUIET MAGQUIET
092	02	01	000	072	010	SPOTN1L					02	SPOTN1L		SOLQUIET MAGALERT MINOR 2/3
093	03	02	011	071	004	S02W07	0	0	0		03	S02W07	Q	SOLQUIET MAGALERT MINOR 03
094	04	03	000	071	012	SPOTN1L					04	SPOTN1L		SOLQUIET MAGALERT MINOR 04
095	05	04	000	072	004	SPOTN1L					05	SPOTN1L		SOLQUIET MAGN1L
096	06	05	000	072	006	SPOTN1L					06	SPOTN1L		SOLQUIET MAGQUIET
097	07	06	000	072	006	SPOTN1L				PRESTO TYPE 11 SWEEP IMP 2 BEGAN AT 07/0328 UT ENDED AT 07/0336 UT 25-180 MHZ	07	SPOTN1L		SOLQUIET MAGQUIET
098	08	07	011	072	003	S09W02	0	0	0		08	S09W02	Q	SOLQUIET MAGQUIET
099	09	08	000	072	008	SPOTN1L					09	SPOTN1L		SOLQUIET MAGQUIET
100	10	09	000	072	015	SPOTN1L					10	SPOTN1L		SOLQUIET MAGQUIET
101	11	10	011	072	020	S10E45	0	0	0		11	S10E45	Q	SOLQUIET MAGQUIET
102	12	11	014	072	005	S11E34	0	0	0		12	S11E34	Q	SOLQUIET MAGQUIET
103	13	12	013	073	010	S12E21	0	0	0		13	S12E21	Q	SOLQUIET MAGQUIET
104	14	13	014	074	008	S12E08	0	0	0		14	S12E08	Q	SOLQUIET MAGQUIET
105	15	14	037	076	005	S12W06 S01E71 S08E68	0 0 0	0 0 0	0 0 0		15	S12W06 S01E71 S08E68	Q Q Q	SOLQUIET MAGQUIET
106	16	15	036	076	007	S12W17 S01E58 S09E55	0 0 0	0 0 0	0 0 0		16	S12W17 S01E58 S09E55	Q Q Q	SOLQUIET MAGQUIET
107	17	16	034	075	009	S11W36 N01E46 S07E43	0 0 0	0 0 0	0 0 0		17	S11W36 N01E46 S07E43	Q Q Q	SOLQUIET MAGQUIET
108	18	17	014	075	005	N01E32	0	0	0		18	N01E32	Q	SOLQUIET MAGALERT 18/20 RECURRENCE
109	19	18	012	074	010	N02E19	0	0	0		19	N02E19	Q	SOLQUIET MAGALERT 19/24 RECURRENCE

ALERT PERIODS
INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

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SUMMARY OF THE GEOALERT MESSAGES

APRIL 1986

NO	D1	DO	WOLF	10CM	A	LOC	TOT	M	X	OUTSTANDING EVENTS	DA	LOC	DE	ALERTS
110	20	19	012	074	011	N02E06	0	0	0		20	N02E06	Q	SOLQUIET MAGALERT 20/24 RECURRENCE
111	21	20	014	074	005	N01W06	0	0	0		21	N01W06	Q	SOLQUIET MAGN1L
112	22	21	025	074	008	N00W20 S10W22	1 0	0 0	0 0		22	N00W20 S10W22	Q Q	SOLQUIET MAGQUIET
113	23	22	029	073	012	S01W33 N02E24	0 0	0 0	0 0		23	S01W33 N02E24	Q Q	SOLQUIET MAGQUIET
114	24	23	070	081	012	N00W38 N03E08 N07E43	0 3 0	0 0 0	0 0 0		24	N00W38 N03E08 N07E43	Q Q Q	SOLQUIET MAGQUIET
115	25	24	073	086	011	S01W63 N03W05 N06E29	0 7 3	0 3 0	0 0 0		25	S01W63 N03W05 N06E29	Q E E	SOLALERT 25/27 MAGQUIET
116	26	25	054	085	012	N03W18 N06E15	1 0	0 0	0 0		26	N03W18 N06E15	E Q	SOLALERT 26/28 MAGQUIET
117	27	26	049	084	012	N03W32 N06E00	3 0	0 0	0 0		27	N03W32 N06E00	E Q	SOLALERT 27/28 MAGQUIET
118	28	27	045	082	005	N03W45 N05W13	1 0	0 0	0 0		28	N03W45 N05W13	E Q	SOLALERT 28/28 MAGQUIET
119	29	28	035	079	013	N04W59 N08W25	2 0	0 0	0 0		29	N04W59 N08W25	E Q	SOLN1L MAGQUIET
120	30	29	033	076	009	N04W72 N07W37	1 0	0 0	0 0		30	N04W72 N07W37	E Q	SOLQUIET MAGQUIET
121	01	30	029	074	005	N04W86 N08W52	1 1	0 0	0 0		01	N04W86 N08W52	Q Q	SOLQUIET MAGQUIET

NO=MESSAGE SERIAL NUMBER, D1=DATE OF ISSUE, DO=DATE OF OBSERVATION, WOLF=WOLF NUMBER, 10CM=10CM SOLAR FLUX, A=A INDEX, LOC=LOCATION LATITUDE AND LONGITUDE, TOT=TOTAL NUMBER OF FLARES, M=NUMBER OF M FLARES, X=NUMBER OF X FLARES, DA=DATE OF FORECAST, DE=DESCRIPTION, Q=QUIET, E=ERUPTIVE, A=ACTIVE, P=PROTON.

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS) APRIL 1986

PRESTO SYDNEY 07/0430 UT TYPE 11 SWEEP IMP 2 CULGOORA BEGAN AT 07/0328 UT ENDED AT 07/0336 UT 25-180 MHZ

INTERNATIONAL (R_f) RELATIVE SUNSPOT NUMBERS

Day	1985 Final				1986 Prov							
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
01	19	10	21	35	7	0	0	0	0	18	16	9
02	15	0	27	25	0	0	0	16	0	31	33	10
03	14	11	30	27	0	0	0	13	0	57	34	12
04	18	26	32	27	0	0	0	0	0	58	32	0
05	16	35	38	20	0	0	16	18	0	53	37	0
06	14	37	43	14	0	0	19	26	0	47	33	0
07	32	38	71	12	0	0	19	15	0	52	38	9
08	44	42	67	12	0	0	18	12	0	54	32	11
09	56	42	82	17	0	0	25	16	0	47	23	0
10	49	58	82	12	0	0	15	15	0	37	20	9
11	49	66	61	12	7	0	17	18	0	37	18	13
12	33	54	45	12	0	0	19	19	0	25	13	15
13	32	45	25	0	9	11	30	18	13	22	8	14
14	32	36	9	0	9	13	44	30	14	16	0	26
15	32	37	8	0	9	15	48	47	12	11	10	25
16	31	27	9	14	9	25	39	66	8	0	0	26
17	38	23	11	12	8	19	43	63	0	0	0	14
18	41	18	11	11	10	20	37	52	0	0	0	15
19	40	10	11	12	10	31	30	40	0	0	0	13
20	37	9	11	10	9	44	28	24	0	10	12	18
21	36	9	10	9	8	50	18	17	0	10	13	25
22	34	9	10	0	7	72	12	11	0	10	10	20
23	32	12	18	0	0	67	10	0	0	11	19	54
24	25	13	12	0	0	63	0	0	0	8	18	64
25	19	12	10	0	0	55	0	0	0	11	10	48
26	13	10	13	8	0	40	0	0	7	11	10	43
27	12	8	12	8	0	27	0	0	0	15	11	33
28	12	8	36	10	0	14	0	0	0	10	13	23
29	10	9	51	9	7	11	0	0	0	0	11	31
30	8	11	46	8	7	0	0	0	8	0	12	33
31	8		40	9		0		0	8		0	
Mean	28	24	31	11	4	19	16	17	2	24	16	20

The yearly mean sunspot number equaled 17.9 in 1985.

DAILY SOLAR FLUX AT 2800 MHz (10.7 CM) ADJUSTED TO 1 AU

ALGONQUIN RADIO OBSERVATORY, OTTAWA

Day	May 85	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 86	Feb	Mar	Apr
01	80.6*	69.5	76.9	80.5	73.0	68.3	69.0	67.8	67.0	81.8	84.1	71.8
02	76.5	72.4	79.1*	80.4	72.8	67.5	68.8	68.4	67.6	86.4*	89.2	70.6
03	72.6	74.6	81.3	79.2	73.1	68.7	68.0	68.5	68.4	96.0	91.1*	70.9
04	70.8	77.5	80.4	79.3	73.5	68.3	67.6	68.3	69.5	97.8*	91.4	71.7
05	71.4	84.3	83.3	78.5	72.2	67.0	68.5	69.7	70.7	99.8	90.5	71.9
06	75.0	87.4	87.5	77.9	72.5	66.0	70.0	71.1	72.2	99.0	89.7*	71.9
07	79.1	88.4	97.7	79.5	70.8	65.9	71.8	71.9	71.6	96.7	87.6	71.9
08	83.7	88.9	96.7*	78.5	70.3	65.8	73.7	73.0	71.2	94.3*	85.1	71.8
09	89.6	89.8	100.9*	74.9	70.6	66.0	72.9	75.2	72.7	92.5	84.3	72.0
10	91.7	91.7	104.6*	72.8	70.3	66.7	72.5	75.6	72.2	93.4*	81.6	72.5
11	89.9	91.2	97.3	68.4	69.2	67.7	74.7	76.6	71.9	95.1	79.3	72.4
12	92.1	89.8	92.9	69.7	68.5	66.9	74.7	77.3	71.2	88.4	76.9	73.1
13	91.9	89.2	85.5	68.9	70.7	66.7	74.3	75.6	74.3	86.4	74.3	74.2
14	90.7*	85.3	76.4	69.3	70.4	69.8	76.9	76.4	76.4	86.2*	71.9	76.0
15	92.0*	83.8	73.0	69.0	71.1	71.7	82.2*	80.2	75.1	79.6	69.7	76.0
16	95.5	80.9	71.9	68.2	70.3	73.2	78.8	83.7	75.5*	71.2	68.9	75.8
17	92.3	77.3	71.9	67.9	70.0	75.5	77.4	80.2	74.4	68.3	68.9	75.3
18	92.7	73.8	71.8	68.6	70.4	75.5	77.3	78.4	73.1	68.7	68.9	74.4
19	89.6	72.2	71.7	69.1	70.7	77.7	75.6	77.5	70.2	68.1	68.8	74.9
20	86.7	71.9	71.7	70.6	69.8	79.4	75.7	75.4*	69.2	68.1	68.4	75.0
21	84.4*	71.5	71.2	70.4	69.6	84.7	73.7	75.1	67.9	66.0	68.5	74.2
22	82.7*	71.6	71.0	72.7	69.8	94.3	73.1	73.5	67.3	67.7	69.1	75.1
23	80.0	71.8	71.1	72.9	69.2	93.2*	72.8	71.2	67.0	67.7	69.8	82.1
24	78.3	70.8	71.0	72.1	69.0	92.5	71.9	69.9	66.9	68.6	69.5	87.4
25	77.2	71.0	75.6	72.5	68.7	88.5*	70.3	67.3	68.0	70.1	69.6	85.7
26	75.5	70.0	77.4	72.3	68.4	83.0	69.5	66.3	67.7	72.0	70.8	84.2*
27	74.6	70.2	79.2	73.1	67.7	78.5*	69.8	66.2	67.2	75.2	70.2	83.4
28	72.7	71.0	81.2	73.1	67.8	76.7	69.0	66.2	70.0	77.0	70.4	80.1
29	72.5	72.3	83.5	73.1	68.3	73.6	69.1	66.0	71.2		71.5	77.0
30	71.4	74.8	83.8	73.9	68.3	70.5	68.8	66.3	73.7		71.5	74.7
31	69.6		82.4	74.1		69.5		66.6	76.6		71.5	
Mean	82.0	78.5	81.3	73.3	70.2	74.2	72.6	72.4	70.9	81.5	76.2	75.6

A = interpolated value; --- = no observation.

*Adjusted for burst in progress at time of measurement; †corrected for antenna drift.

The yearly mean 2800 MHz flux adjusted to 1 astronomical unit equaled 74.7 in 1985.

DAILY SOLAR INDICES

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April 1986

Day	Julian Day	Bartels Cycle Day	Sunspot Numbers		Obs Flux Ottawa (2800)	Solar Flux Adjusted to 1 Astronomical Unit								
			Int	Amer		SGMR (15400)	SGMR (8800)	SGMR (4995)	Ottawa (2800)	SGMR (2695)	SGMR (1415)	SGMR (610)	SGMR (410)	SGMR (245)
01	91	6	9	0	71.9	550	289	105	71.8	72	60	52	21	11
02	92	7	10	0	70.7	547	293	103	70.6	72	57	44	21	11
03	93	8	12	7	70.9	---	---	---	70.9	---	---	---	---	---
04	94	9	0	0	71.6	553	304	106	71.7	68	58	54	22	11
05	95	10	0	0	71.8	559	308	94	71.9	70	59	54	21	11
06	96	11	0	0	71.8	535	301	102	71.9	69	57	50	21	9
07	97	12	9	0	71.8	536	305	101	71.9	71	57	53	22	9
08	98	13	11	0	71.6	403	305	104	71.8	70	57	35	17	11
09	99	14	0	0	71.8	565	302	108	72.0	70	56	52	21	13
10	100	15	9	7	72.2	561	299	107	72.5	70	56	52	20	11
11	101	16	13	9	72.0	547	300	97	72.4	71	57	44	20	13
12	102	17	15	10	72.7	555	292	136	73.1	72	59	53	20	15
13	103	18	14	10	73.8	---	---	---	74.2	---	---	---	---	---
14	104	19	26	19	75.5	558	293	109	76.0	73	59	51	20	13
15	105	20	25	15	75.5	562	306	110	76.0	74	60	51	21	10
16	106	21	26	10	75.3	562	305	110	75.8	72	62	53	20	12
17	107	22	14	10	74.7	560	298	108	75.3	74	62	50	20	12
18	108	23	15	11	73.7	558	304	98	74.4	69	60	48	20	11
19	109	24	13	10	74.2	558	307	100	74.9	71	64	53	21	9
20	110	25	18	16	74.3	558	304	101	75.0	68	61	49	20	10
21	111	26	25	15	73.5	559	308	100	74.2	74	61	52	22	11
22	112	27	20	21	74.3	555	286	109	75.1	75	63	52	21	11
23	113	1	54	41	81.2	526	282	95	82.1	77	64	56	24	17
24	114	2	64	37	86.4	547	309	122	87.4	85	66	81	53	49
25	115	3	48	35	84.7	540	303	103	85.7	81	64	55	26	18
26	116	4	43	40	83.1*	540	312	121	84.2*	85	63	51	28	37
27	117	5	33	32	82.2	547	304	116	83.4	82	61	54	24	33
28	118	6	23	23	79.0	570	301	112	80.1	79	62	49	22	17
29	119	7	31	22	75.9	566	284	112	77.0	76	59	49	23	14
30	120	8	33	14	73.6	553	298	108	74.7	71	58	50	22	16
			20	14	75.1	548	300	107	75.6	74	60	52	22	15

*Adjusted for burst in progress at time of measurement.

The observed and the adjusted Ottawa fluxes tabulated above are the "Series C" daily values reported by the Algonquin Radio Observatory, Ottawa, Ontario, Canada. The letter "A" following an entry designates an interpolated flux. Numbers in parentheses in the column headings denote frequencies in MHz.

Equipment problems produced the gaps shown here in the Air Weather Service's Sagamore Hill (SGMR) observations.

The International and American sunspot numbers shown above are preliminary values.

OBSERVED AND PREDICTED SOLAR ACTIVITY INDICES

APRIL 1986

Date	RELATIVE SUNSPOT NUMBERS						2800 MHz RADIO FLUX Adjusted to 1 AU (Sa)	
	International (Ri)		American (Ra)		Derived (Rs)		Monthly Mean	Monthly Smoothed
	Monthly Mean	Smoothed	Monthly Mean	Smoothed	Monthly Mean	Smoothed		
Jun 82	110.4	117	113.5	118	129.6	127	177.4	175
Jul	106.1	115	113.3	117	116.0	125	164.8	174
Aug	107.6	109	110.5	111	123.9	120	172.1	168
Sep	118.8	101	117.8	103	118.5	112	167.1	161
Oct	94.7	96	90.1	97	111.8	106	160.9	155
Nov	98.1	95	93.2	95	114.8	103	163.7	153
Dec	127.0	95	145.0	95	146.7	101	193.2	151
Jan 83	84.3	93	82.8	93	86.7	98	137.7	148
Feb	51.0	90	53.4	90	67.2	94	119.6	145
Mar	66.5	86	60.5	85	64.7	90	117.3	141
Apr	80.7	82	74.5	81	67.5	85	119.9	136
May	99.2	77	97.7	77	86.1	80	137.1	131
Jun	91.1	70	93.1	69	92.4	72	143.0	124
Jul	82.2	66	82.2	63	77.4	66	129.1	118
Aug	71.8	66	69.2	63	75.7	66	127.5	118
Sep	50.3	68	47.4	66	57.0	67	110.2	119
Oct	55.8	68	52.3	66	58.6	67	111.7	120
Nov	33.3	59	30.2	65	35.6	67	90.4	120
Dec	33.4	64	32.3	62	35.7	65	90.5	118
Jan 84	57.0	60	54.4	58	59.4	61	112.4	115
Feb	85.4	56	81.5	54	86.2	58	137.2	101
Mar	83.5	53	83.0	51	68.5	55	120.8	108
Apr	69.7	50	66.5	48	78.1	52	129.7	105
May	76.4	48	72.1	45	79.6	49	131.1	103
Jun	46.1	46	45.2	44	49.8	48	103.5	102
Jul	37.4	44	36.2	42	37.6	39	92.2	99
Aug	25.5	40	24.5	38	30.7	41	85.8	95
Sep	15.7	34	13.6	32*	23.2	35	78.9	90
Oct	12.0	29	9.8	27*	16.9	31	73.1	86
Nov	22.8	25	19.4	23*	18.6	26	74.6	72
Dec	18.7	22	17.0	20*	17.4	23	73.5	79
Jan 85	16.5	20	14.5	19*	15.9	21	72.1	77
Feb	15.9	20	16.3	18*	15.7	20	71.9	76
Mar	17.2	19	11.8*	16*	16.3	19	72.5	75
Apr	16.2	18	17.1*	17*	19.8	19	75.7	75
May	27.5	18	24.0*	17*	26.6	19	82.0	75
Jun	24.2	18	22.2*	16*	22.8	19	78.5	75
Jul	30.7	17*	30.8*	16*	25.8	19	81.3	75
Aug	11.1	17*	10.7*	15*	17.2	19	73.3	75
Sep	3.9	17*	3.4*	16*	13.8	20	70.2	76
Oct	18.6	17*	16.5*	16*	18.1	20	74.2	76
Nov	16.2	16(1)*	16.4*	15	16.4	19	72.6	--
Dec	17.3	16(2)*	10.1*	14	16.2	18	72.4	--
Jan 86	2.3†	15(3)*	2.3*	14	14.6	18	70.9	--
Feb	23.6†	15(4)*	23.8*	13	26.0	17	81.5	--
Mar	15.7†	14(5)*	12.5*	13	20.3	17	76.2	--
Apr	20.4†	13(6)*	13.8*	12	19.6	16	75.6	--
May	----	12(7)*	----	11	----	15	----	--
Jun	----	12(8)*	----	10	----	14	----	--
Jul	----	11(8)*	----	10	----	13	----	--
Aug	----	10(8)*	----	9	----	12	----	--
Sep	----	10(8)*	----	9	----	12	----	--
Oct	----	10(8)*	----	9	----	11	----	--

*An asterisk marks either a value of the observed 12-month running mean or of a predicted 12-month average that is based in part on preliminary observations.

Underlined entries indicate predicted values and parentheses enclose the absolute value of the 90% confidence limits. The two columns headed "Derived" represent a sunspot number computed from a linear regression equation between the 2800 MHz solar flux (adjusted to 1 astronomical unit) and the Zurich sunspot number.

SMOOTHED OBSERVED AND PREDICTED SUNSPOT NUMBERS FOR CYCLE 21

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Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15	13	12	13	13	12*	13	14	14	13	14	15
1977	17	18	20	22	24	26	29	33	39	46	52	57
1978	61	65	70	77	83	89	97	104	108	111	113	118
1979	124	131	137	141	147	153	155	155	156	158	162	165*
1980	164	163	161	159	156	155	153	150	150	150	148	143
1981	140	142	143	143	143	142	140	141	143	142	139	138
1982	137	133	129	124	120	117	115	109	101	96	95	95
1983	93	90	86	82	71	71	66	66	68	68	67	64
1984	60	56	53	50	48	47	44	40	34	29	25	22
1985	21	20	19	18	18	18	17	17	17	17	16	16
											(1)	(2)
1986	15	15	14	13	12	12	11	10	10	10	10	10
	(3)	(4)	(5)	(6)	(7)	(8)	(8)	(8)	(8)	(8)	(8)	(8)

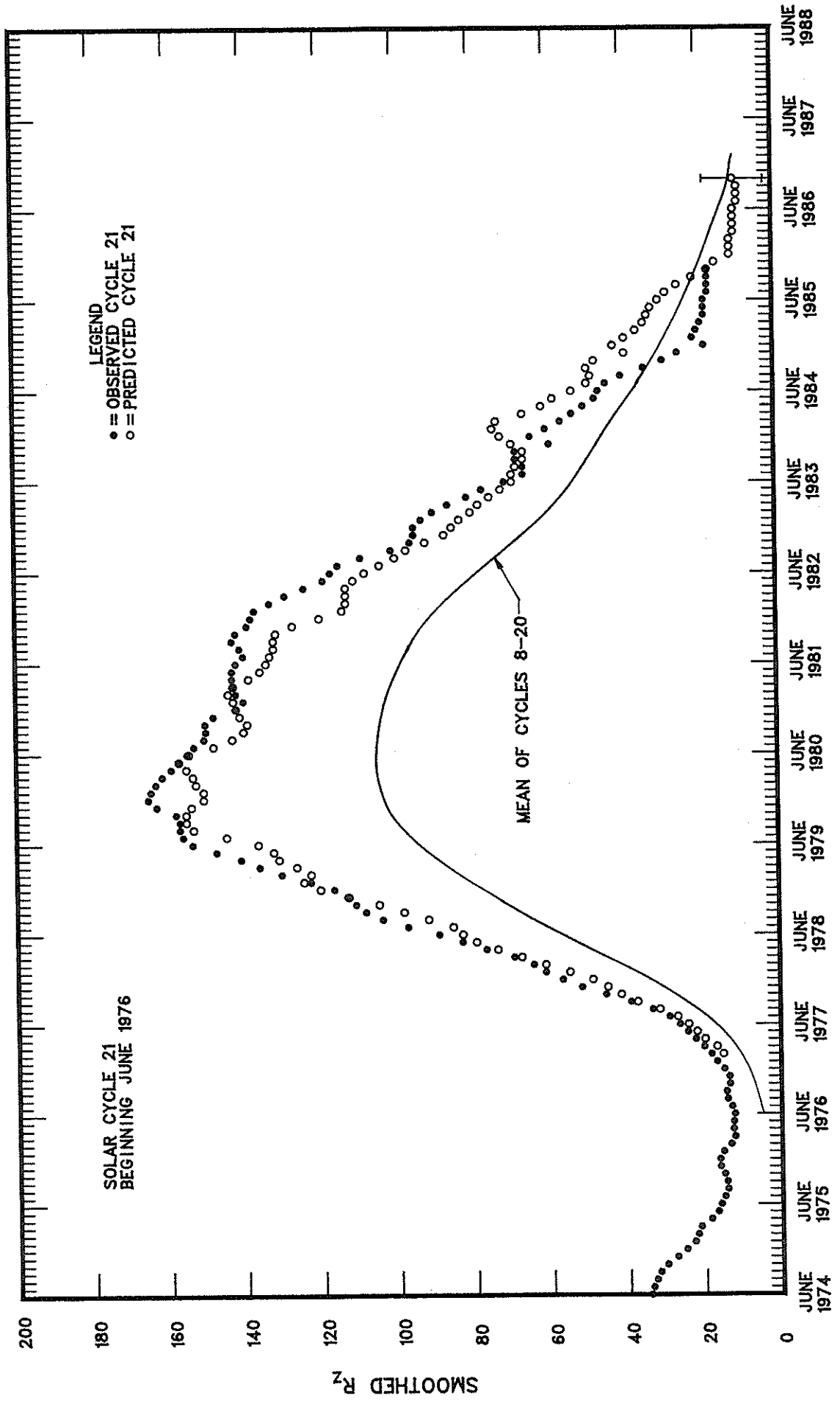
An asterisk marks the minimum and the maximum of Sunspot Cycle 21.

For the current solar cycle, this table gives observed smoothed sunspot numbers up to the one calculated from the most recently measured monthly mean. These smoothed observed values are based on final monthly mean Zurich numbers through 1980, on final international numbers through 1985, and on provisional international numbers thereafter.

The entries with numbers in parentheses below them denote predictions by the McNish-Lincoln method. (See page 9 in the March 1986 edition of the "Solar-Geophysical Data" supplement.) Adding the number in parentheses to the predicted value generates the upper limit of the 90% confidence interval; subtracting the number in parentheses from the predicted value generates the lower limit. Consider, for example, the October 1986 prediction tabulated above. There exists a 90% chance that in October 1986 the actual smoothed sunspot number will fall somewhere between 2 and 18.

THE MCNISH-LINCOLN PREDICTION METHOD GENERATES USEFUL ESTIMATES OF SMOOTHED SUNSPOT NUMBERS FOR NO MORE THAN 12 MONTHS AHEAD. Beyond a year the predictions regress rapidly toward the mean of all 13 cycles of data used in the computation. Furthermore, the method is very sensitive to the date defined as the beginning of the current sunspot cycle, that is, to the date of the most recent sunspot minimum. In "Solar-Geophysical Data," issues 390-401, we based the current cycle predictions on March 1976 as the end of cycle 20 and the onset of the new cycle 21. Later studies, including one published by M. Waldmeier, showed that June 1976 was more appropriately the minimum epoch. We therefore generated this table using the June 1976 date.

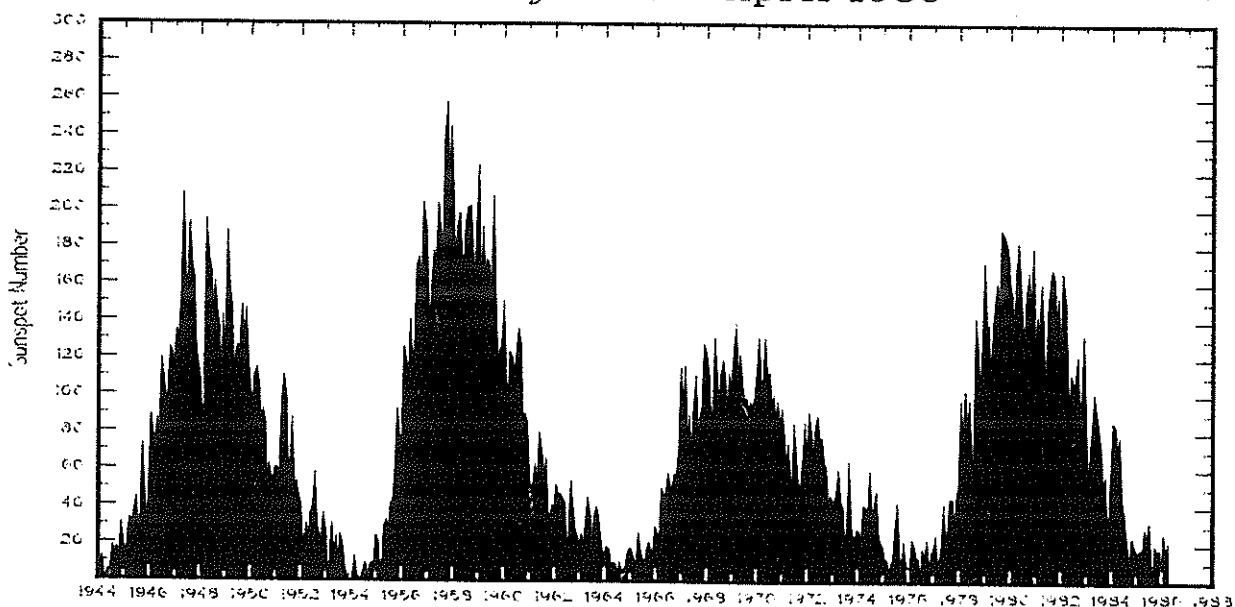
OBSERVED AND ONE-YEAR-AHEAD PREDICTED SMOOTHED SUNSPOT NUMBERS



MONTHLY MEAN SUNSPOT NUMBERS

January 1944 - April 1986

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MONTHLY MEAN SUNSPOT NUMBERS

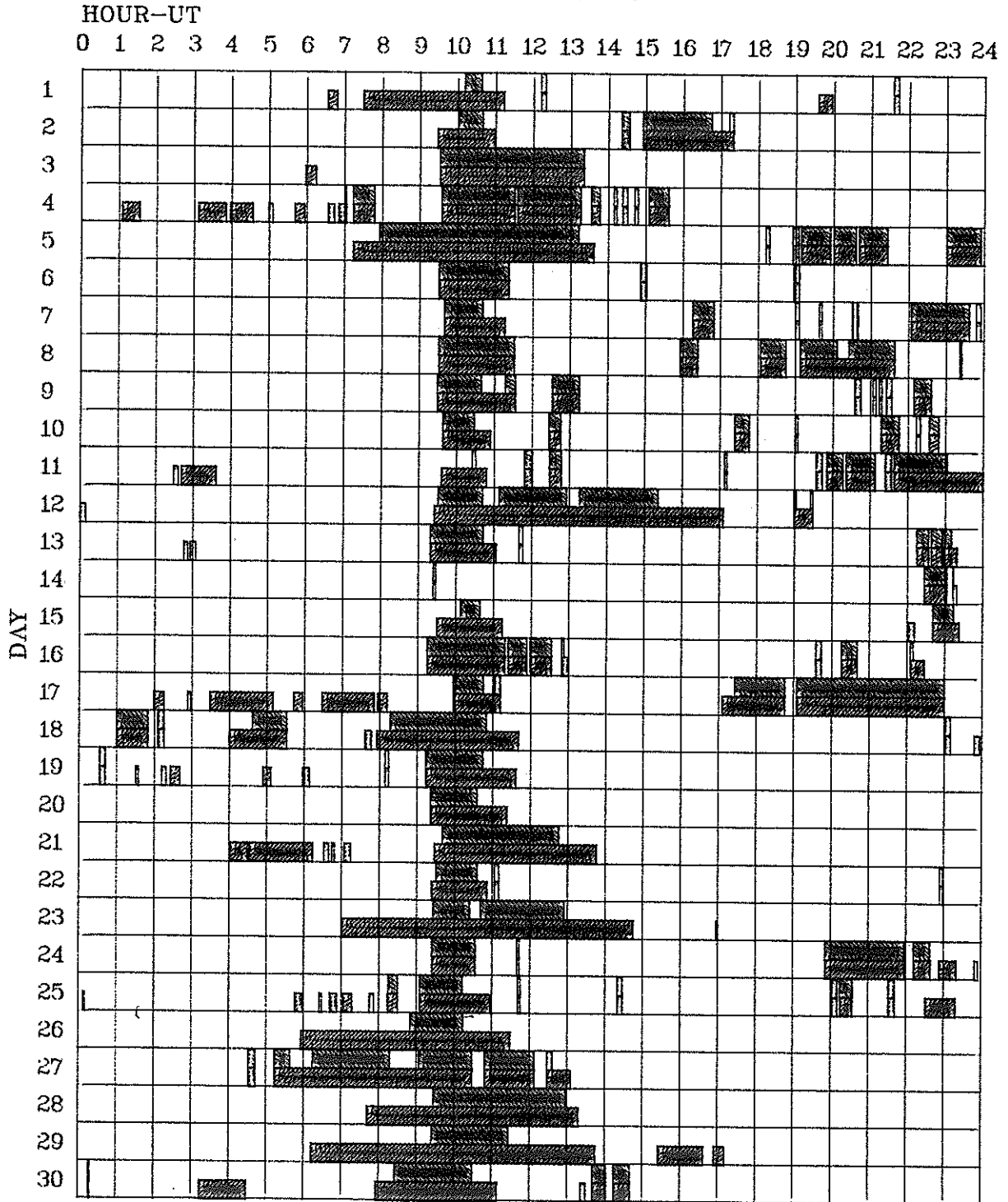
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1944	3.7	0.5	11.0	0.3	2.5	5.0	5.0	16.7	14.3	16.9	10.8	28.4
1945	18.5	12.7	21.5	32.0	30.6	36.2	42.6	25.9	34.9	68.8	46.0	27.4
1946	47.6	86.2	76.6	75.7	84.9	73.5	116.2	107.2	94.4	102.3	123.8	121.7
1947	115.7	133.4	129.8	149.8	201.3	163.9	157.9	188.8	169.4	163.6	128.0	116.5
1948	108.5	86.1	94.8	189.7	174.0	167.8	142.2	157.9	143.3	136.3	95.8	138.0
1949	119.1	182.3	157.5	147.0	106.2	121.7	125.8	123.8	145.3	131.6	143.5	117.6
1950	101.6	94.8	109.7	113.4	106.2	83.6	91.0	85.2	51.3	61.4	54.8	54.1
1951	59.9	59.9	55.9	92.9	108.5	100.6	61.5	61.0	83.1	51.6	52.4	45.8
1952	40.7	22.7	22.0	29.1	23.4	36.4	39.3	54.9	28.2	23.8	22.1	34.3
1953	26.5	3.9	10.0	27.8	12.5	21.8	8.6	23.5	19.3	8.2	1.6	2.5
1954	0.2	0.5	10.9	1.8	0.8	0.2	4.8	8.4	1.5	7.0	9.2	7.6
1955	23.1	20.8	4.9	11.3	28.9	31.7	26.7	40.7	42.7	58.5	89.2	76.9
1956	73.6	124.0	118.4	110.7	136.6	116.6	129.1	169.6	173.2	155.3	201.3	192.1
1957	165.0	130.2	157.4	175.2	164.6	200.7	187.2	158.0	235.8	253.8	210.9	239.4
1958	202.5	164.9	190.7	196.0	175.3	171.5	191.4	200.2	201.2	181.5	152.3	187.6
1959	217.4	143.1	185.7	163.3	172.0	168.7	149.6	199.6	145.2	111.4	124.0	125.0
1960	146.3	106.0	102.2	122.0	119.6	110.2	121.7	134.1	127.2	82.8	89.6	85.6
1961	57.9	46.1	53.0	61.4	51.0	77.4	70.2	55.8	63.6	37.7	32.6	39.9
1962	38.7	50.3	45.6	46.4	43.7	42.0	21.8	21.8	51.3	39.5	26.9	23.2
1963	19.8	24.4	17.1	29.3	43.0	35.9	19.6	33.2	38.8	35.3	23.4	14.9
1964	15.3	17.7	16.5	8.6	9.5	9.1	3.1	9.5	4.7	6.1	7.4	15.1
1965	17.5	14.2	11.7	6.8	24.1	15.9	11.9	8.9	16.8	20.1	15.8	17.0
1966	28.2	24.4	25.3	48.7	45.3	47.7	56.7	51.2	50.2	57.2	57.2	70.4
1967	110.9	93.6	111.8	69.5	86.5	67.3	91.5	107.2	76.8	88.2	94.3	126.4
1968	121.8	111.9	92.2	81.2	127.2	110.3	96.1	109.3	117.2	107.7	86.0	109.8
1969	104.4	120.5	135.8	106.8	120.0	106.0	96.8	98.0	91.3	95.7	93.5	97.9
1970	111.5	127.8	102.9	109.5	127.5	106.8	112.5	93.0	99.5	86.6	95.2	83.5
1971	91.3	79.0	60.7	71.8	57.5	49.8	81.0	61.4	50.2	51.7	63.2	82.2
1972	61.5	88.4	80.1	63.2	80.5	88.0	76.5	76.8	64.0	61.3	41.6	45.3
1973	43.4	42.9	46.0	57.7	42.4	39.5	23.1	25.6	59.3	30.7	23.9	23.3
1974	27.6	26.0	21.3	40.3	39.5	36.0	55.8	33.6	40.2	47.1	25.0	20.5
1975	18.9	11.5	11.5	5.1	9.0	11.4	28.2	39.7	13.9	9.1	19.4	7.8
1976	8.1	4.3	21.9	18.8	12.4	12.2	1.9	16.4	13.5	20.6	5.2	15.3
1977	16.4	23.1	8.7	12.9	18.6	38.5	21.4	30.1	44.0	43.8	29.1	43.2
1978	51.9	93.6	76.5	99.7	82.7	95.1	70.4	58.1	138.2	125.1	97.9	122.7
1979	166.6	137.5	138.0	101.5	134.4	149.5	159.4	142.2	188.4	186.2	183.3	176.3
1980	159.6	155.0	126.2	164.1	179.9	157.3	136.3	135.4	155.0	164.7	147.9	174.4
1981	114.0	141.3	135.5	156.4	127.5	90.9	143.8	158.7	167.3	162.4	137.5	150.1
1982	111.2	163.6	153.8	122.0	82.2	110.4	106.1	107.6	118.8	94.7	98.1	127.0
1983	84.3	51.0	66.5	80.7	99.2	91.1	82.2	71.8	50.3	55.8	33.3	33.4
1984	57.0	85.4	83.5	69.7	76.4	46.1	37.4	25.5	15.7	12.0	22.8	18.7
1985	16.5	15.9	17.2	16.2	27.5	24.2	30.7	11.1	3.9	18.6	16.2	17.3
1986	2.3*	23.6*	15.7*	20.4*								

*Provisional

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

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Times of no flare patrol, shown here as shaded areas, combine reports from the observatories listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind, that is, of neither visual nor cinematographic; portions of a panel with only the bottom half shaded mark times of strictly visual patrol.

Bucharest
Holloman

Istanbul
Learmonth

Manila
Mitaka

Palehua
Peking

Purple Mt.
Ramey
Wendelstein

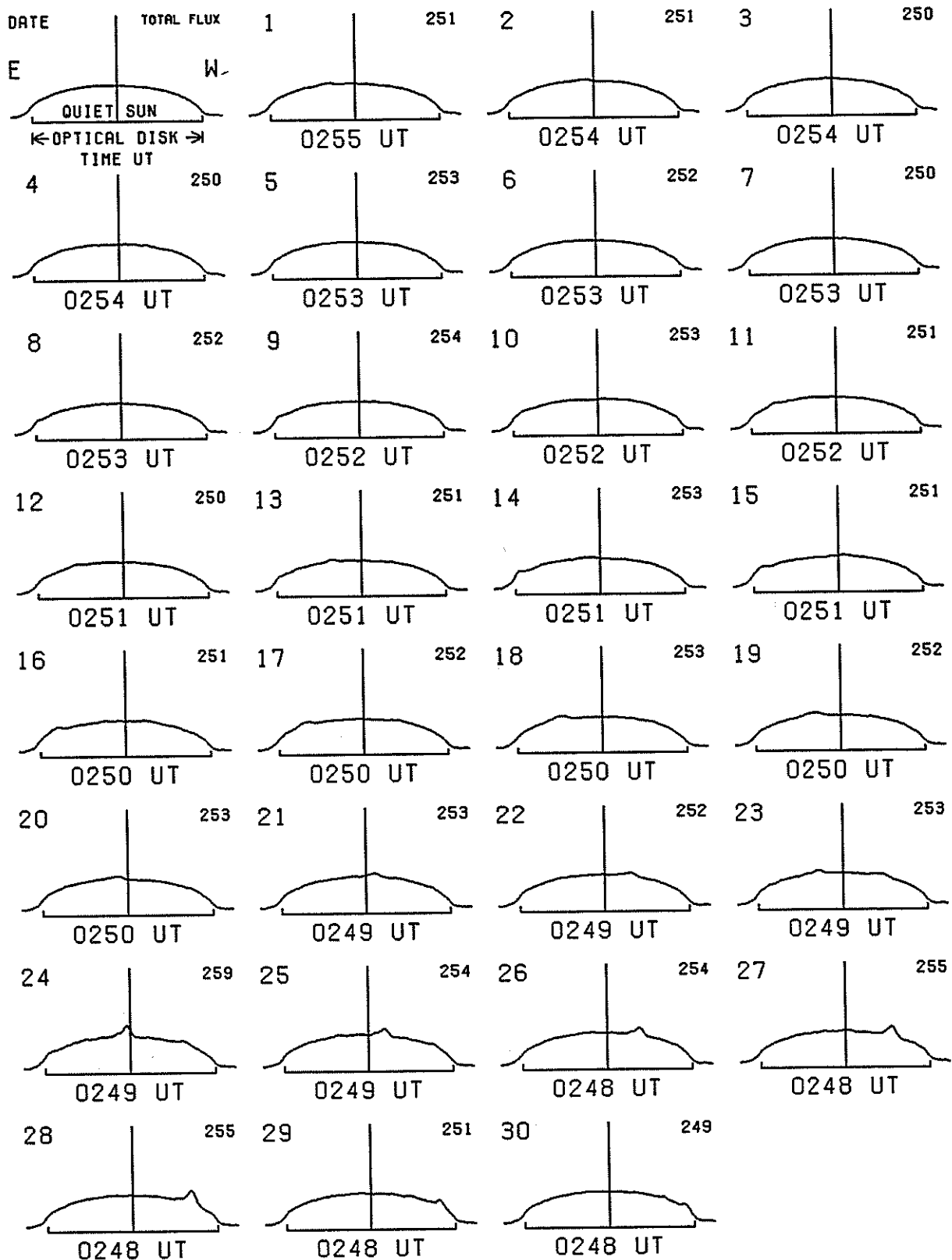
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EAST-WEST SOLAR SCANS

APRIL 1986

TOYOKAWA, JAPAN

3 CM
FAN BEAM WITH 1.1 MINUTES OF ARC



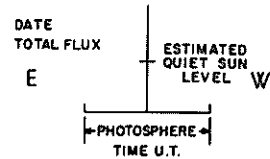
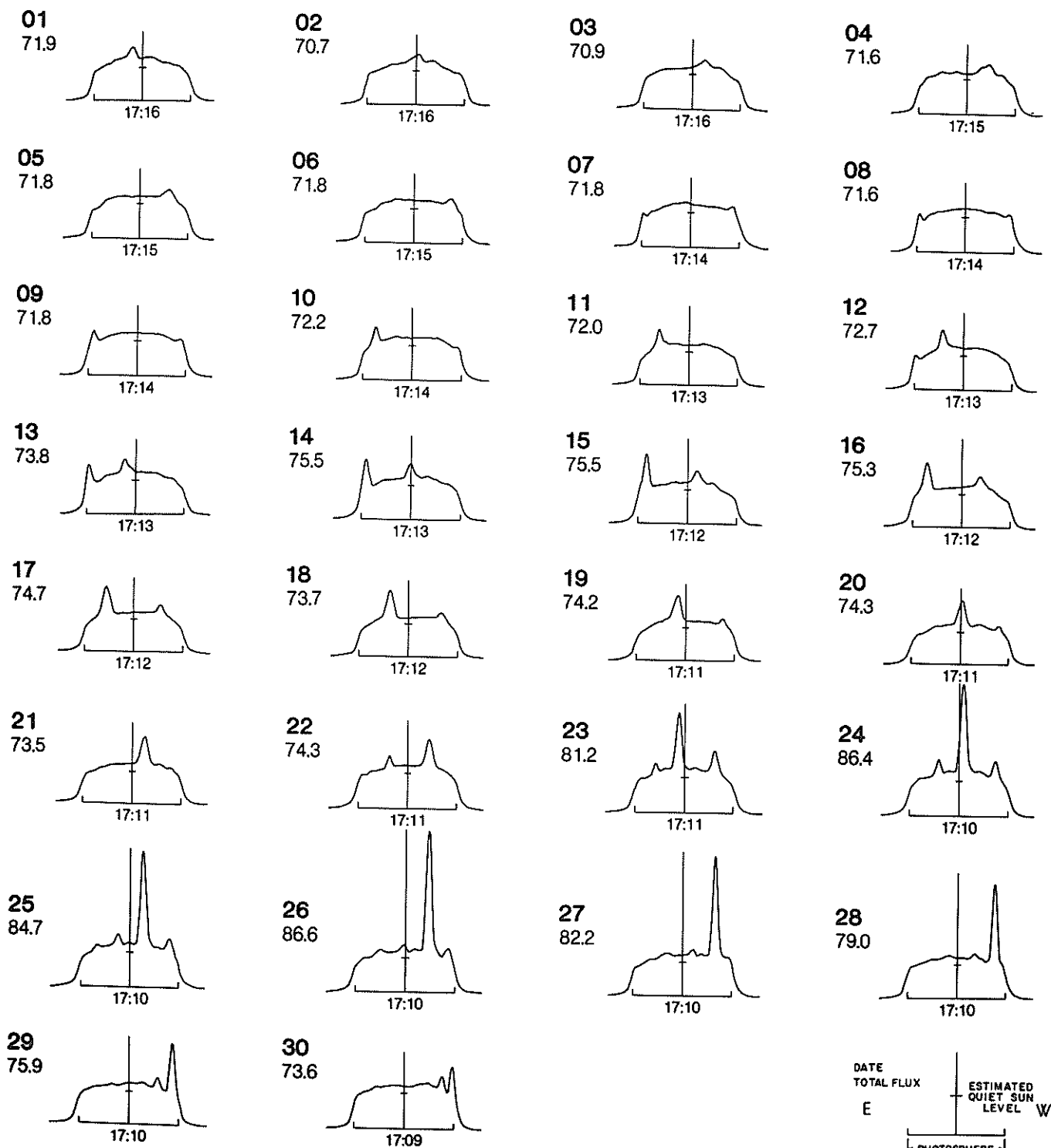
EAST-WEST SOLAR SCANS

APRIL 1986

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ALGONQUIN RADIO OBSERVATORY
CANADA

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



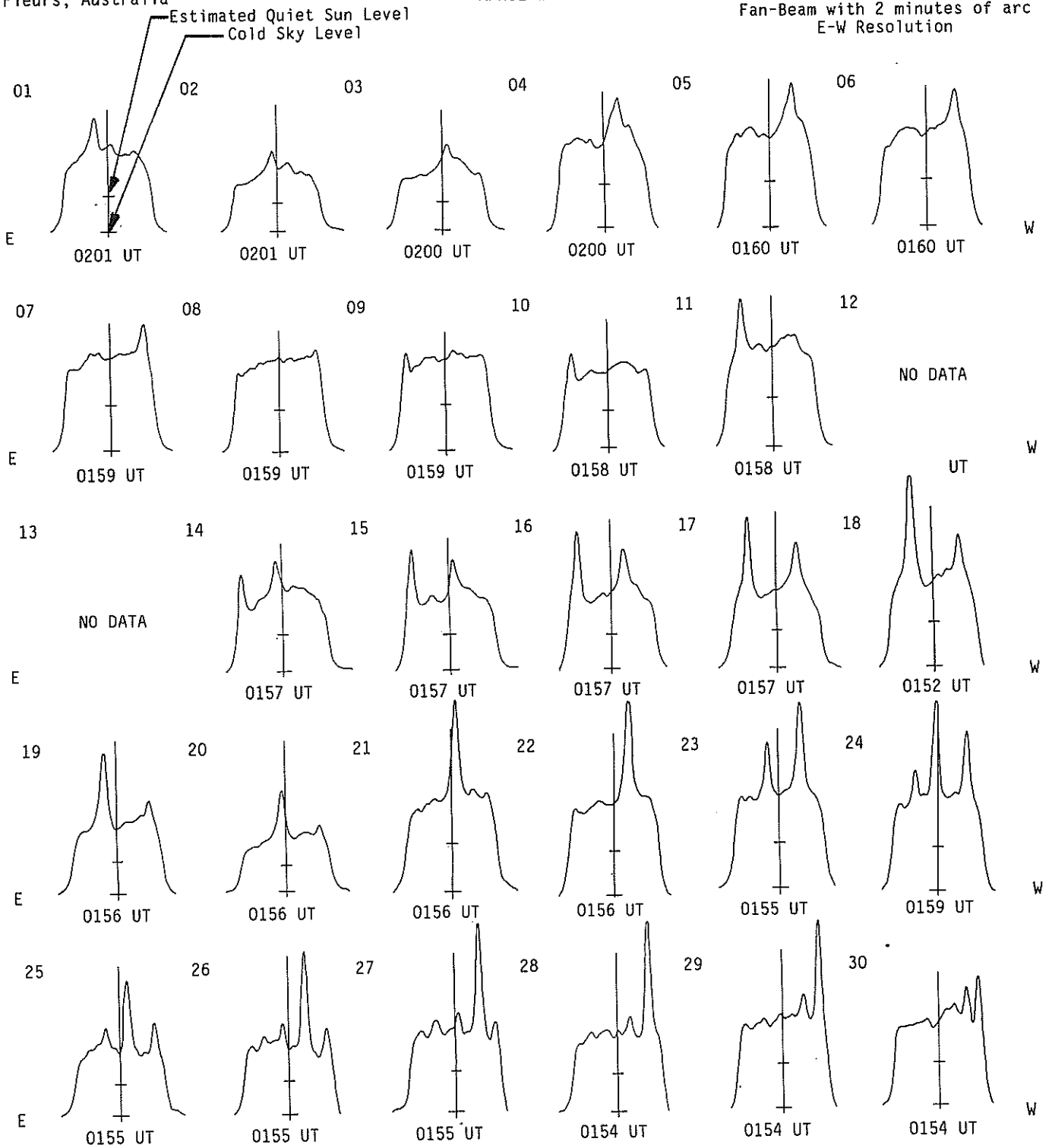
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EAST - WEST SOLAR SCANS

Fleurs, Australia

APRIL 1986

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



EAST - WEST SOLAR SCANS

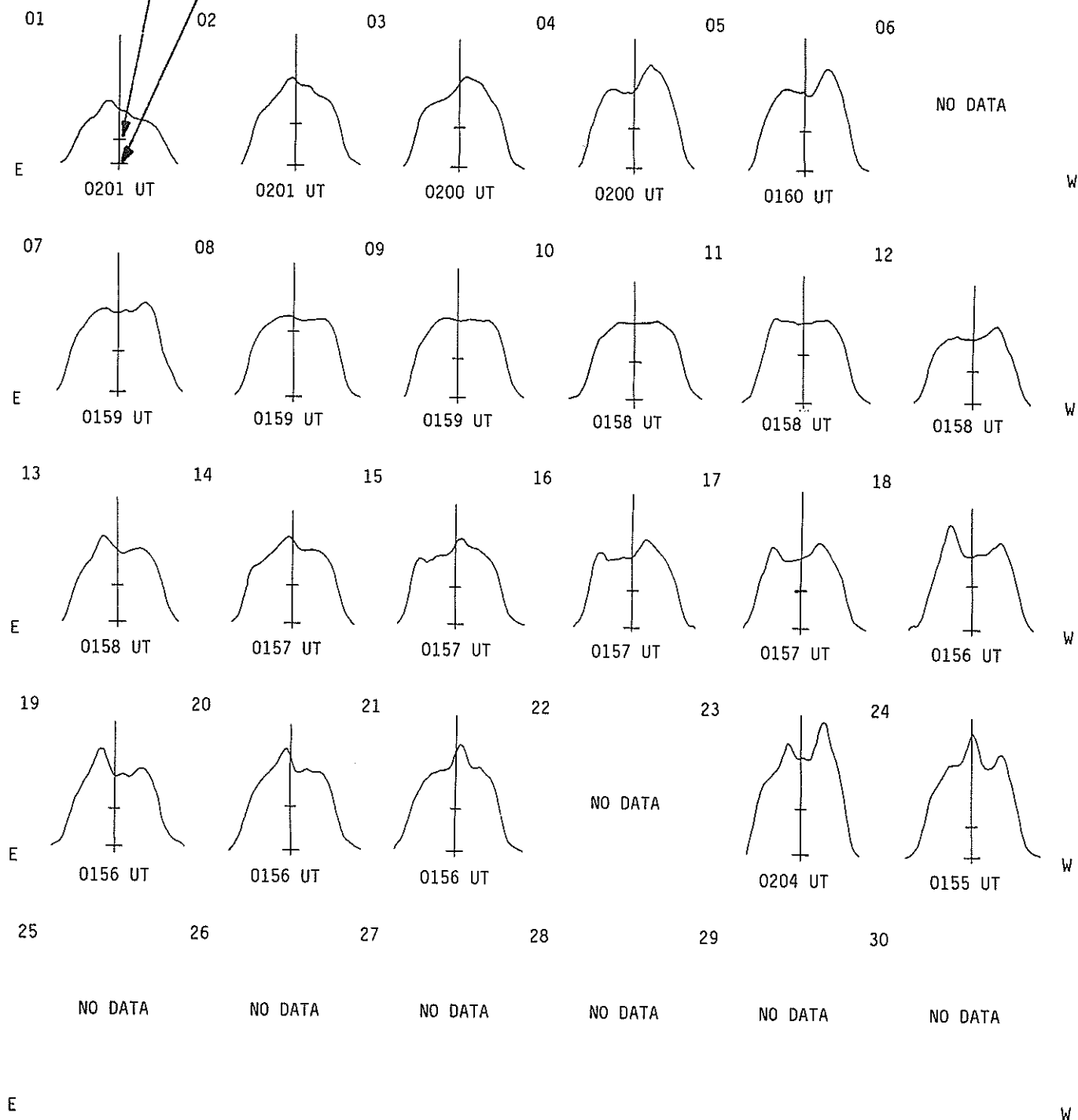
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Fleurs, Australia

APRIL 1986

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

Estimated Quiet Sun Level
Cold Sky Level



S O L A R R A D I O E M I S S I O N
S E L E C T E D F I X E D F R E Q U E N C Y E V E N T S

APRIL 1986

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Peak (10 ⁻²² W/m ² Hz)	Density Mean (W/m ² Hz)	Int	Remarks
22	245	LEAR	43 NS	2256.0	0254.6	652.00	54.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	2305.0	0110.5	331.00	38.0			QL=6 ST=2 TYP=1
23	245	PALE	43 NS	1624.0	0228.6		130.0			QL=6 ST=1 TYP=1
	245	PALE	43 NS	1624.0	1731.3		24.0			QL=6 ST=1 TYP=1
	245	LEAR	43 NS	2256.0	0219.8	650.00	91.0			QL=6 ST=2 TYP=1
	2800	OTTA	22 GRF	1430.0	1455.0	125.0	1.6	.8		
	2800	OTTA	20 GRF	1805.0	1845.0	90.0	1.6	1.0		
	2800	OTTA	1 S	2026.9	2027.0	1.0	.4	.3		
	2700	PENT	20 GRF	2300.0	2305.0	50.0	1.0	.5		
24	245	SGMR	44 NS	1010.0E	2020.3	783.00	830.0			QL=6 ST=3 TYP=1
	245	SGMR	43 NS	1010.0	2020.3		830.0			QL=6 ST=3 TYP=1
	410	SGMR	43 NS	1128.0	1220.6		18.0			QL=6 ST=3 TYP=1
	410	SGMR	44 NS	1128.0E	2015.0	705.00	28.0			QL=6 ST=3 TYP=1
	245	PALE	43 NS	1623.0	1929.6	730.00	260.0			QL=6 ST=2 TYP=1
	410	PALE	43 NS	1623.0	2014.6	730.00	48.0			QL=6 ST=2 TYP=1
	610	SGMR	44 NS	1658.0E	1658.0	375.00	81.0			QL=6 ST=3 TYP=1
	245	LEAR	43 NS	2257.0	0114.6	650.00	180.0			QL=6 ST=2 TYP=1
	2700	PENT	21 GRF	0035.0	0045.0	75.00	2.8			
	2700	PENT	1 S	0042.0	0042.4	2.0	3.0	1.5		
	4995	PALE	47 GB	0346.6	0346.6	.2	59.0			QL=6 ST=2 TYP=5
	2800	OTTA	2 S/F	1219.0	1220.5	3.0	4.2	2.1		
	2800	OTTA	1 S	1415.0	1416.5	4.0	7.2	3.6		
	8800	SGMR	47 GB	1416.6	1416.6	2.5	82.0			QL=6 ST=3 TYP=5
	4995	SGMR	47 GB	1416.6	1416.6	3.0	51.0			QL=6 ST=3 TYP=5
	2800	OTTA	29 PBI	1419.0	1419.0	140.0	5.2	2.0		
	2800	OTTA	20 GRF	1645.0	1720.0	105.0	1.8	1.5		
	2800	OTTA	20 GRF	1955.0	2045.0	75.0	1.8	.9		
2700	PENT	1 S	2247.3	2247.8	1.5	1.4	.8			
25	245	SGMR	43 NS	1009.0	1748.3	785.00	160.0			QL=6 ST=2 TYP=1
	410	PALE	43 NS	1635.0	1706.3		19.0			QL=6 ST=1 TYP=1
	245	PALE	43 NS	1635.0E	1719.1		60.0			QL=6 ST=1 TYP=1
	245	LEAR	43 NS	2257.0	2311.5	649.00	169.0			QL=6 ST=2 TYP=1
	2800	OTTA	20 GRF	1330.0	1400.0	100.0	2.0	1.0		
	2800	OTTA	1 S	2115.0	2115.8	1.0	1.2	.6		
	2800	OTTA	1 S	2202.0	2206.0	10.0	1.2	.6		
	245	LEAR	47 GB	2325.6	2325.6	.4	139.0			QL=6 ST=3 TYP=5
	410	LEAR	8 S	2325.6	2325.8	.4	25.0			QL=6 ST=3 TYP=3
	26	245	SGMR	43 NS	1007.0	1824.1	789.00	700.0			QL=6 ST=2 TYP=1
245		PALE	43 NS	1638.0	0201.3	721.00	340.0			QL=6 ST=2 TYP=1
410		PALE	43 NS	1638.0	0304.8	721.00	49.0			QL=6 ST=2 TYP=1
410		LEAR	44 NS	2258.0E	0201.3	632.00	33.0			QL=6 ST=2 TYP=1
610		LEAR	44 NS	2258.0E	0212.8	462.00	22.0			QL=6 ST=2 TYP=1
2700		PENT	1 S	0018.5	0019.5	4.0	2.0	1.0		
410		PALE	47 GB	0254.3	0254.5	.5	300.0			QL=1 ST=2 TYP=5
410		LEAR	47 GB	0254.3	0254.8	.8	340.0			QL=6 ST=3 TYP=5
410		LEAR	47 GB	0254.6	0254.8	.5	139.0			QL=6 ST=2 TYP=5
245		LEAR	47 GB	0652.5	0653.6	1.3	110.0			QL=6 ST=2 TYP=5
610		LEAR	8 S	0652.6	0653.5	1.2	21.0			QL=6 ST=2 TYP=3
410		LEAR	47 GB	0653.3	0653.3	1.0	70.0			QL=6 ST=2 TYP=5
2800		OTTA	21 GRF	1630.0	1645.0	70.0	5.0	2.5		
4995		SGMR	47 GB	1632.8	1638.1	33.2	50.0			QL=6 ST=2 TYP=5
8800		SGMR	4 S/F	1635.8	1637.8	36.2	49.0			QL=6 ST=2 TYP=3
2800		OTTA	3 S	1636.5	1638.6	8.0	12.6	4.2		
4995		PALE	47 GB	1638.0E	1638.0	1.10	71.0			QL=2 ST=2 TYP=5
27	245	SGMR	43 NS	1006.0	1947.8	790.00	110.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	1621.0	0227.3	721.00	130.0			QL=6 ST=2 TYP=1
	410	PALE	43 NS	1621.0	2204.3	721.00	33.0			QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2258.0	0227.3	646.00	380.0			QL=6 ST=2 TYP=1
	610	LEAR	8 S	0251.1	0251.3	.4	23.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0251.3	0253.1	1.8	29.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0252.6	0252.8	1.5	160.0			QL=6 ST=2 TYP=5
	245	PALE	8 S	0429.5	0429.6	.3	410.0			QL=6 ST=2 TYP=3
	8800	ATHN	47 GB	0757.0	0758.0	2.0	66.0			QL=6 ST=2 TYP=5
	4995	ATHN	8 S	0757.0	0758.0	1.0	9.0			QL=6 ST=2 TYP=5
	2800	OTTA	240 R	1818.0	1821.0	3.0	1.2	.6		
	2800	OTTA	1 S	2120.2	2120.5	1.0	7.6	3.6		

S O L A R R A D I O E M I S S I O N
S E L E C T E D F I X E D F R E Q U E N C Y E V E N T S

19
Apr 86

A P R I L 1 9 8 6

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 ⁻²² W/m ² Hz)	Mean (W/m ² Hz)		
28	245 PALE	43 NS	1621.0	0350.1	731.00	160.0			OL=6 ST=2 TYP=1
	245 LEAR	43 NS	2259.0	0747.1	644.00	169.0			OL=6 ST=2 TYP=1
29	245 PALE	43 NS	1620.0	0004.5	735.00	75.0			OL=6 ST=2 TYP=1
	245 LEAR	43 NS	2259.0	0004.5	644.00	76.0			OL=6 ST=2 TYP=1
30	245 PALE	43 NS	1619.0	1719.0		19.0			OL=6 ST=1 TYP=1
	245 LEAR	43 NS	2332.0	2354.3	610.00	17.0			OL=6 ST=2 TYP=1

Reports are received routinely from the following observatories:

ATHN = Athens	HUAN = Huancayo	NAGO = Nagoya	POTS = Potsdam
BERN = Berne	IRKU = Irkutsk	NOBE = Nobeyama	SAOP = Sao Paulo
BORD = Bordeaux	IZMI = IZMIRAN	ONDR = Ondrejov	SGMR = Sagamore Hill
CRIM = Crimea	KISV = Kislovodsk	OTTA = Ottawa	TORN = Torun
DWIN = Dwingeloo	KRAK = Krakow	PALE = Palehua	TYKW = Toyokawa
GORK = Gorky	LEAR = Learmonth	PEKG = Peking	TRST = Trieste
HIRA = Hiraalso	MANI = Manila	PENT = Penticton	UPIC = Upice

Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm In Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	240 Rise only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	240F Rise only F	260 Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	24P Post Rise	26F Fall F	32A Absorption A	

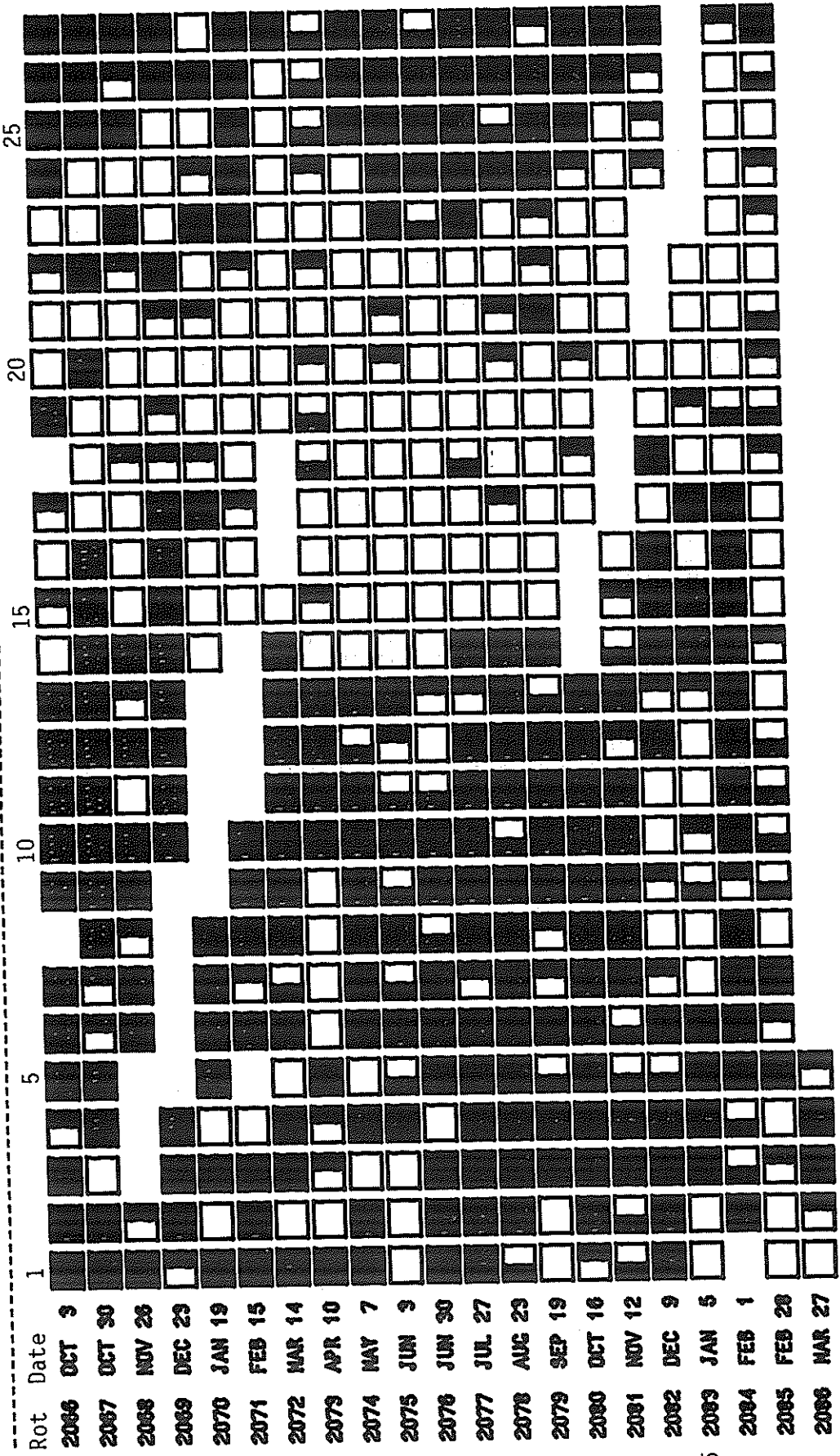
Remarks:

QL = Quality (1=poor to 6=excellent)

ST = Status (1=real time; 2=final; 3=correction; 4=deletion)

TYP= Type (1=noise storm; 2=rise in base level; 3=minor; 4=group; 5=major; 6=major plus; 7=Castelli U-type burst)

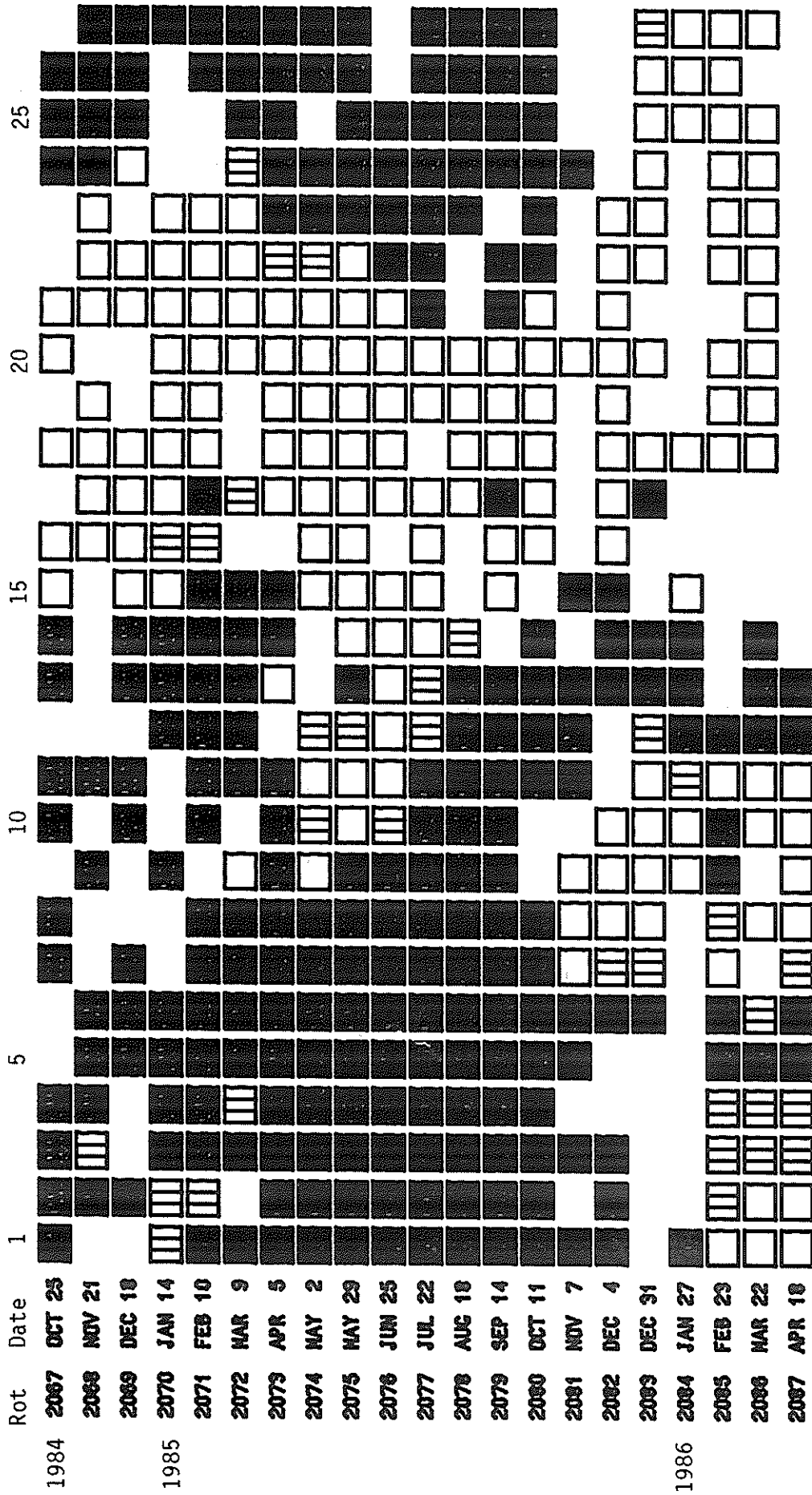
VOSTOK INFERRED INTERPLANETARY MAGNETIC FIELD



Inferred Interplanetary Magnetic Field Polarity:

= definitely towards the Sun
 = definitely away from the Sun
 No box = no data available
 The chart shows the daily inferences of the polarity of the interplanetary magnetic field based principally on the magnetograms produced by the magnetometer at the Vostok Antarctic Station of the USSR.

STANFORD MEAN SOLAR MAGNETIC FIELD



Mean Solar Magnetic Field Polarity: = field > 2 microT; = -2 microT < field < 2 microT
 = field < -2 microT; No box = no data available

Observations are taken at 2000 UT. Rotation numbers given are the Bartels series, but the dates are not; these dates mark times of occurrence of phenomena on the Sun that affect the Earth during the given Bartels Rotation.

22
Apr 86

STANFORD MEAN SOLAR MAGNETIC FIELD (MICROTESLA)

May 1985 - April 1986

Day	1985					1986						
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
1	-5	-10	-16	-5	.	13	-7	.	.	.	3	10
2	-8	-7	-14	1	.	15	-10	.	.	.	0	-3
3	-9	-11	-5	2	7	6	-8	.	.	.	-7	-14
4	-5	-12	2	8	3	-6	-15	-16	.	15	-7	-16
5	-5	-11	5	11	5	-13	-16	-20	-3	15	3	.
6	-5	-3	17	6	3	.	-25	-25	1	2	-11	.
7	-8	4	31	10	.	-20	-26	.	14	-8	.	.
8	-8	6	24	.	.	-23	.	.	3	-27	.	6
9	-5	-1	22	8	-26	-26	-17	-14	11	-14	.	5
10	4	-4	.	8	-24	-27	.	1	12	4	.	5
11	2	3	12	-9	-24	-21	-6	13	0	.	.	3
12	8	12	7	-16	-22	-23	-5	8	-19	.	5	5
13	1	22	5	-24	-25	-16	5	3	-14	9	11	3
14	.	21	8	-28	-24	-26	11	.	.	.	8	8
15	.	19	6	-22	-21	-20	6	.	.	.	.	7
16	11	17	-10	-23	-21	-27	.	-18	-12	.	14	.
17	22	13	-27	-22	-25	-21	-3	-20	21	.	11	8
18	33	15	-27	-20	-29	-25	-2	-21	.	.	12	5
19	48	7	-24	-20	-28	.	-11	3	24	.	12	6
20	39	-10	.	-17	-22	.	.	11	.	9	12	2
21	27	-21	.	-19	-21	-17	-5	15	16	18	10	-1
22	25	-16	-19	-22	-23	-17	.	22	11	10	8	-5
23	0	-13	-19	-18	-16	-12	.	28	12	9	5	-4
24	-9	-13	-10	-22	-10	-8	.	15	15	1	2	1
25	21	-16	-14	-28	-6	.	.	21	10	1	-1	7
26	.	-12	-19	-25	-5	4	15	8	2	0	-3	13
27	18	-12	-27	-15	.	19	.	.	-3	-4	0	13
28	-8	-9	-26	-9	11	17	.	.	.	-4	.	10
29	-8	-13	-27	-4	12	14	.	.	.	.	14	-3
30	-9	-9	-25	-2	-6	16	-8	-14
31	-5	.	-22	1	.	5	15	.

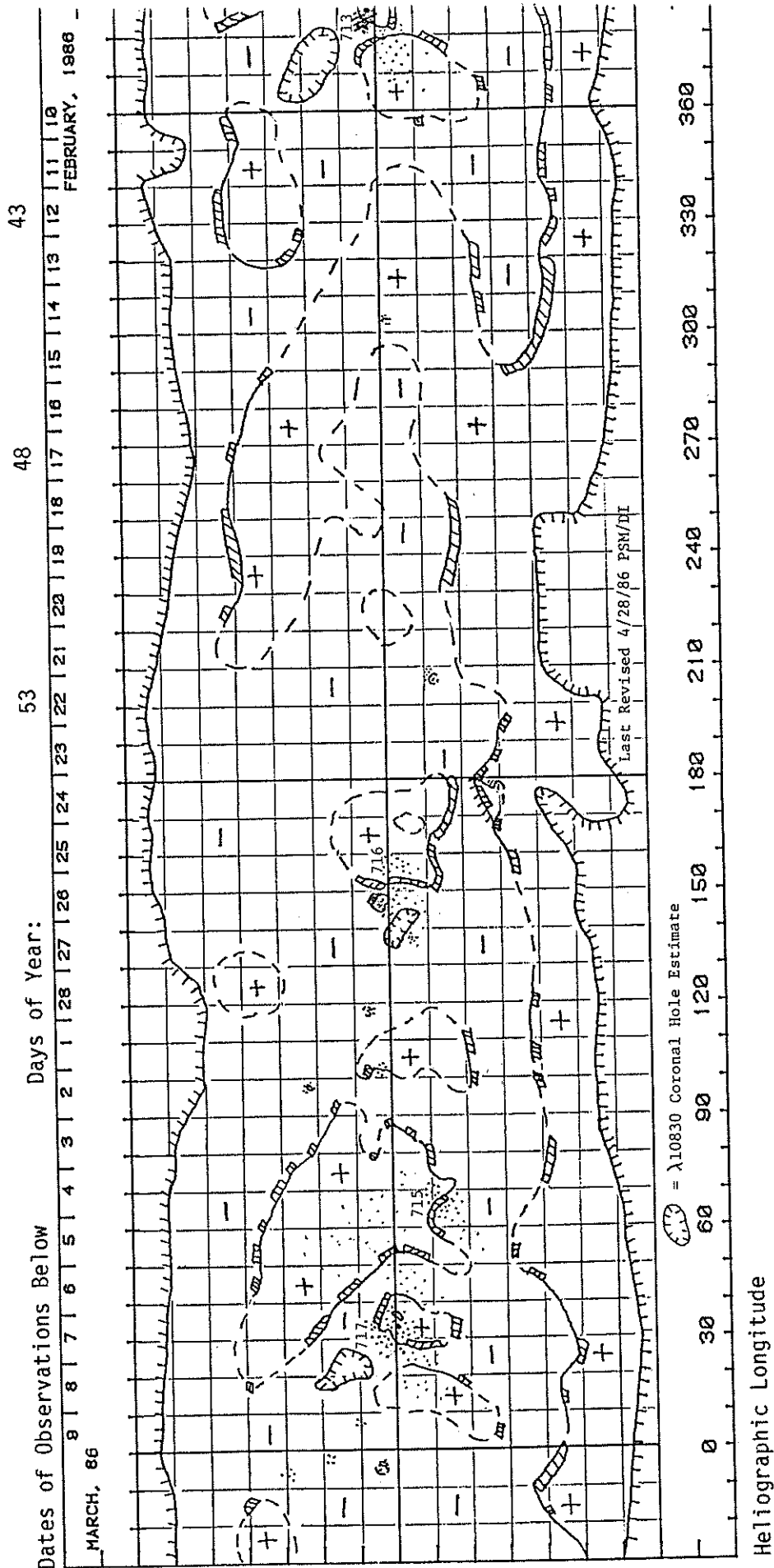
Dot symbol indicates no data available for the day.

C O N T E N T S

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PRELIMINARY H - ALPHA SOLAR SYNOPTIC CHART
CARRINGTON ROTATION NUMBER 1772
(February 10 to March 9, 1986)

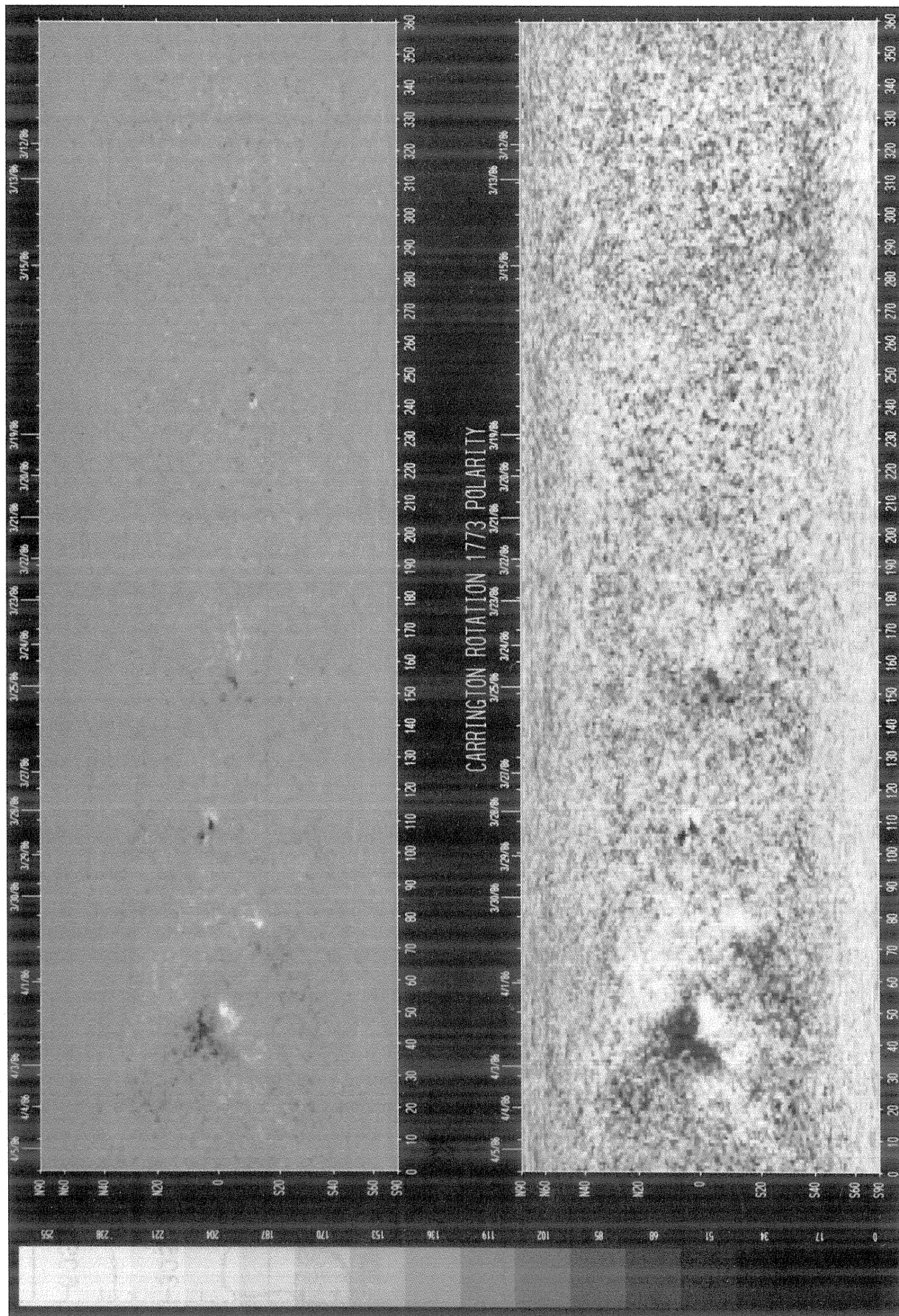


SOLAR MAGNETIC FIELD SYNOPTIC CHART

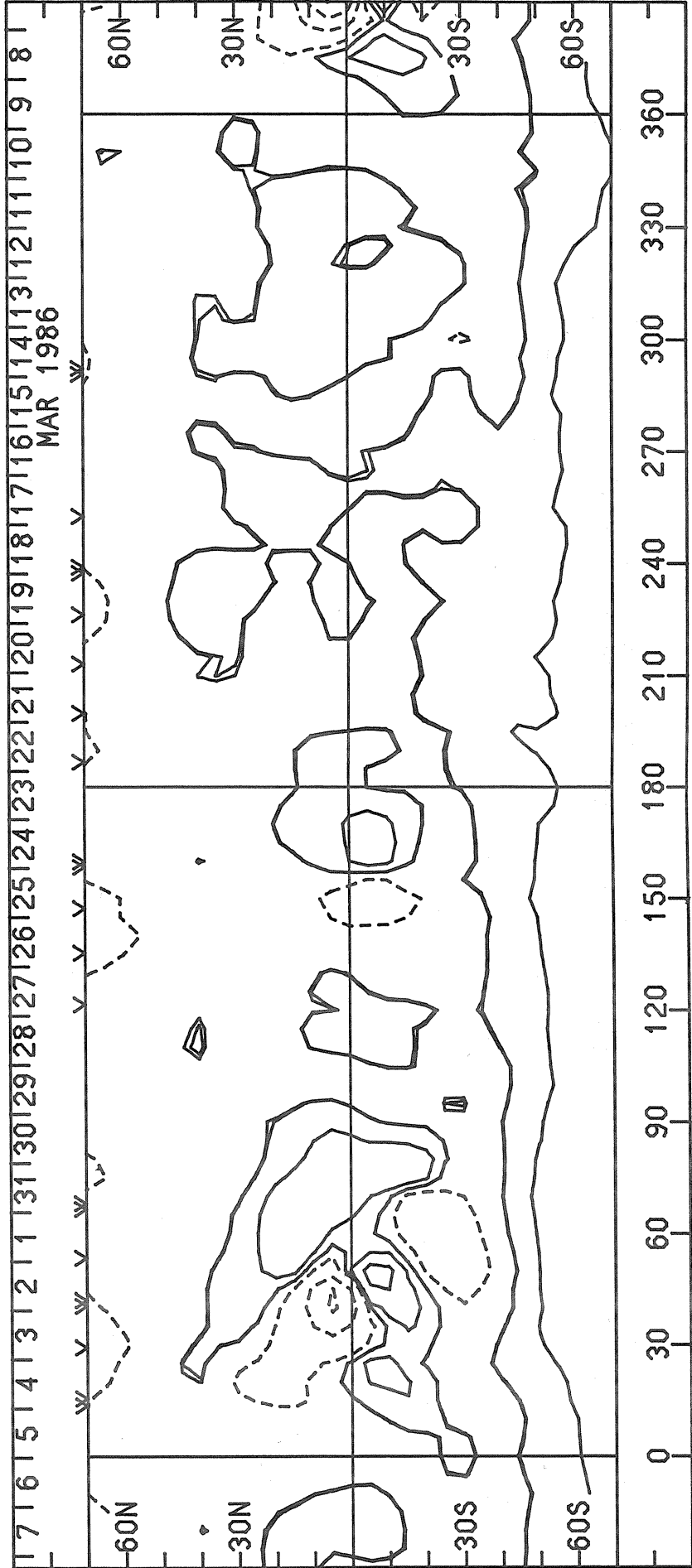
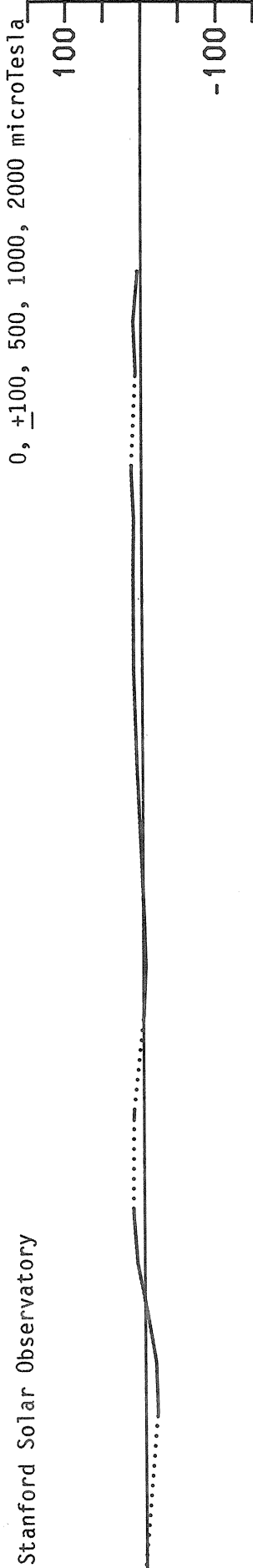
CARRINGTON ROTATION NUMBER 1773
(March 9 to April 6, 1986)

Dates of Observations

Kitt Peak National Observatory



SOLAR MAGNETIC FIELD SYNOPSIS CHART
CARRINGTON ROTATION NUMBER 1773
(March 9 to April 6, 1986)

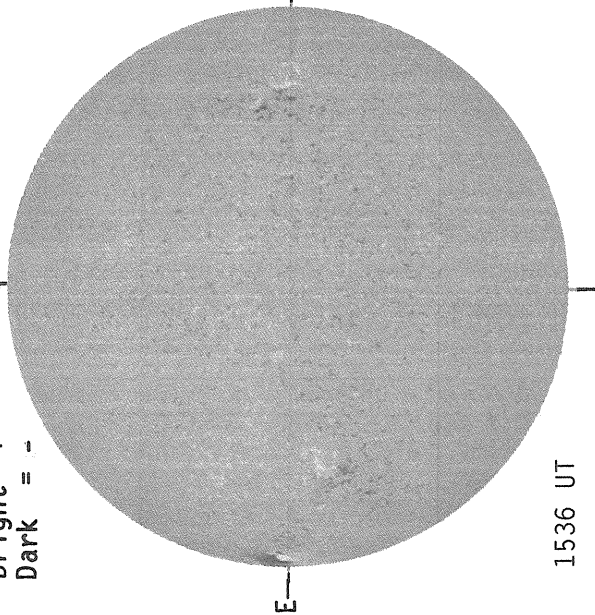


Heliographic Longitude

MARCH 01, 1986 (P=-21.46, B₀=-7.11, L₀=116.68)

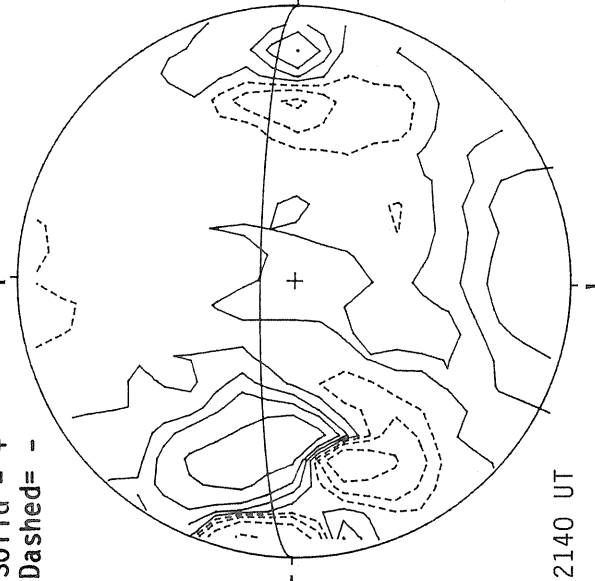
KITT PEAK MAGNETOGRAM

Bright= +
Dark = -



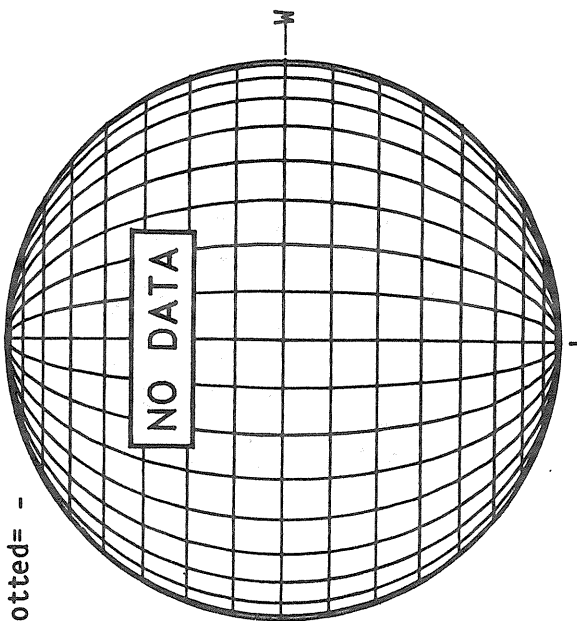
STANFORD MAGNETOGRAM

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Dashed = -

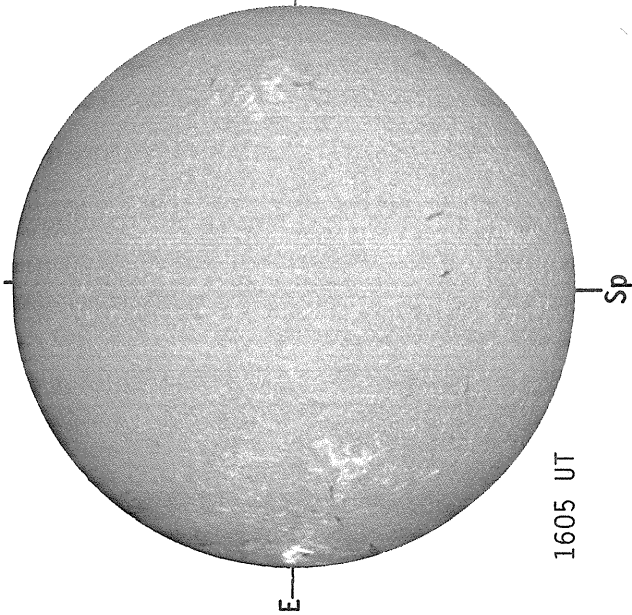


MT. WILSON MAGNETOGRAM

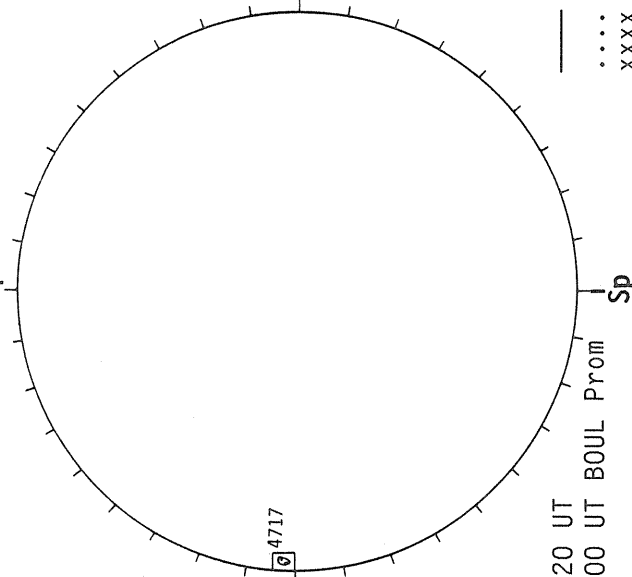
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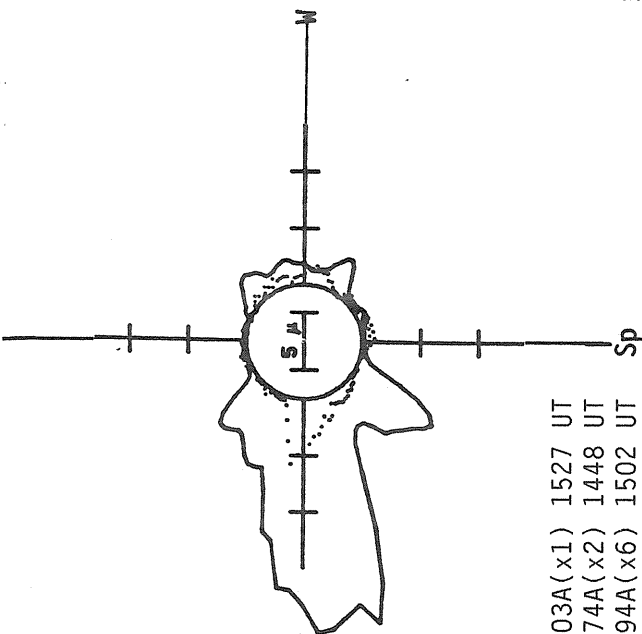
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)



— 5303A(x1) 1527 UT
 6374A(x2) 1448 UT
 xxxxx 5694A(x6) 1502 UT
 NO 5694A ACTIVITY TODAY

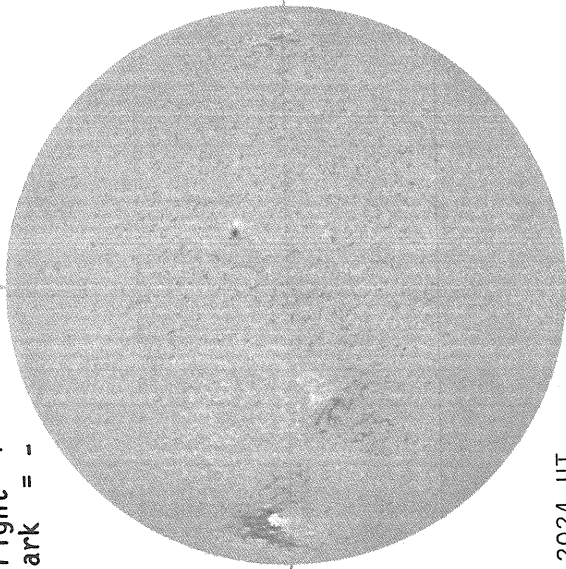
28
Mar 86

MARCH 02, 1986 (P=-21.71, B₀=-7.12, L₀=103.50)

KITT PEAK MAGNETOGRAM

Np

Bright = +
Dark = -

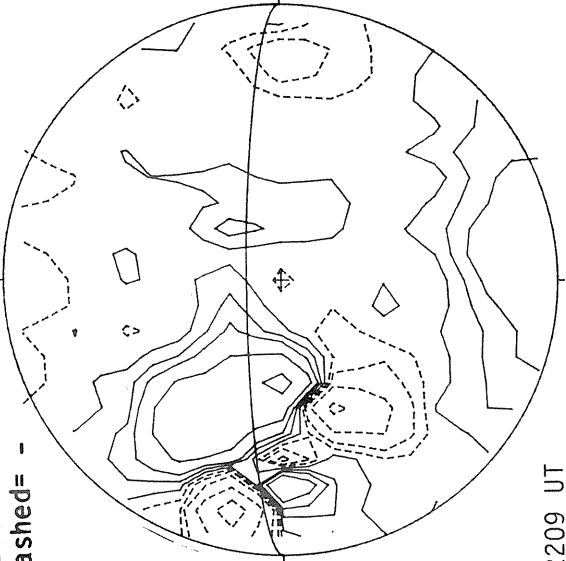


2024 UT

STANFORD MAGNETOGRAM

Np

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Dashed = -



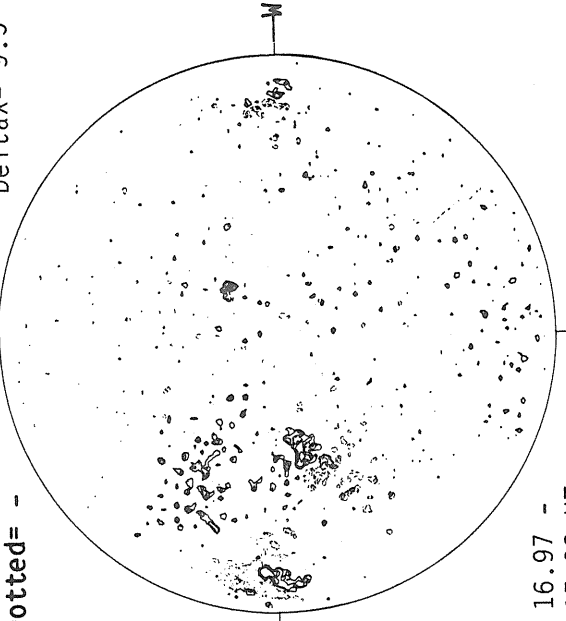
2209 UT

MT. WILSON MAGNETOGRAM

Np

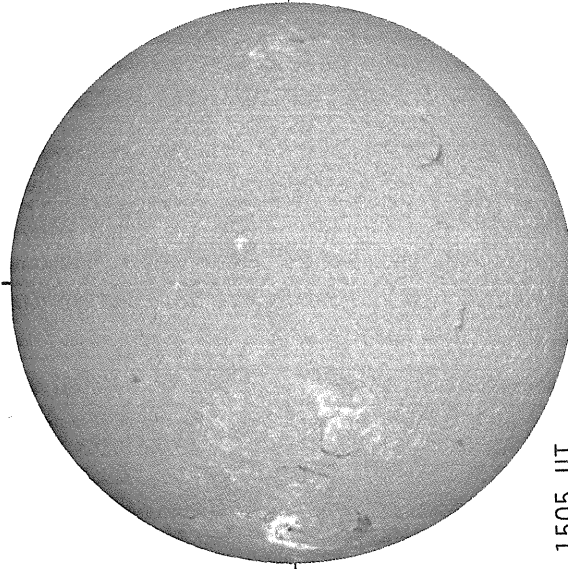
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Delta Y = 12.9
Delta X = 9.5



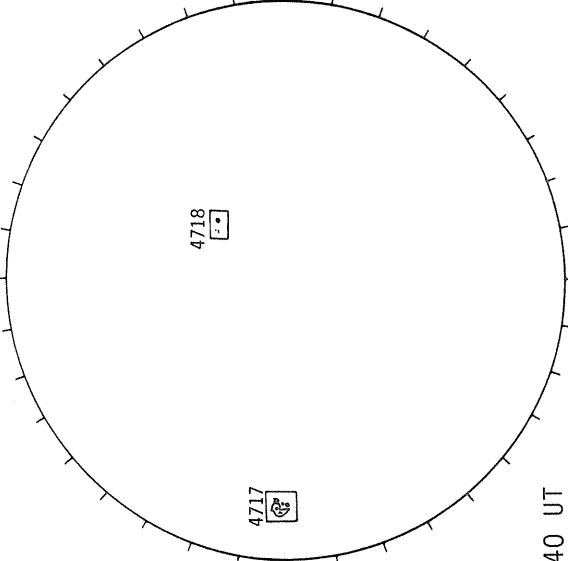
16.97 -
17.93 UT

SACRAMENTO PEAK H-ALPHA



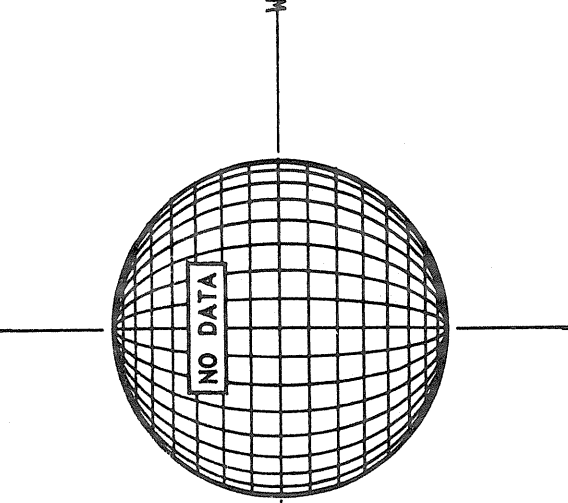
1505 UT

BOULDER SUNSPOTS



1540 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

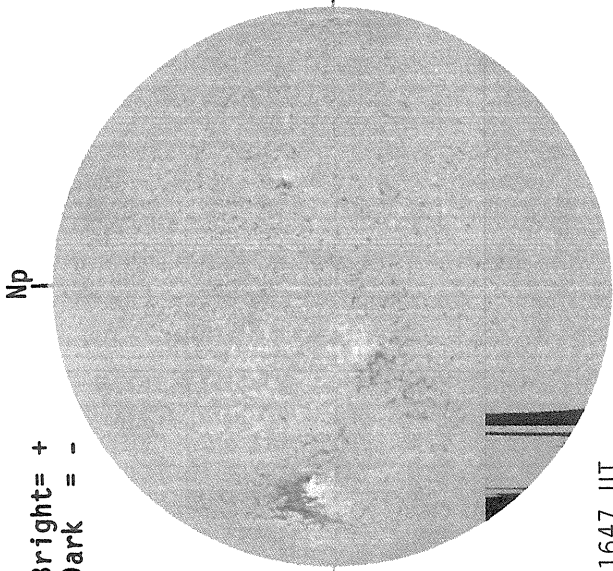


Sp

MARCH 03, 1986 (P=-21.95, B₀=-7.13, L₀= 90.33)

KITT PEAK MAGNETOGRAM

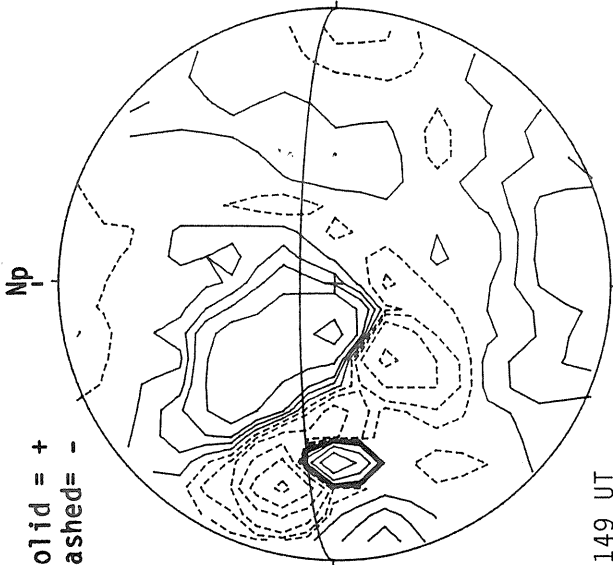
Bright= +
Dark = -



1647 UT

STANFORD MAGNETOGRAM

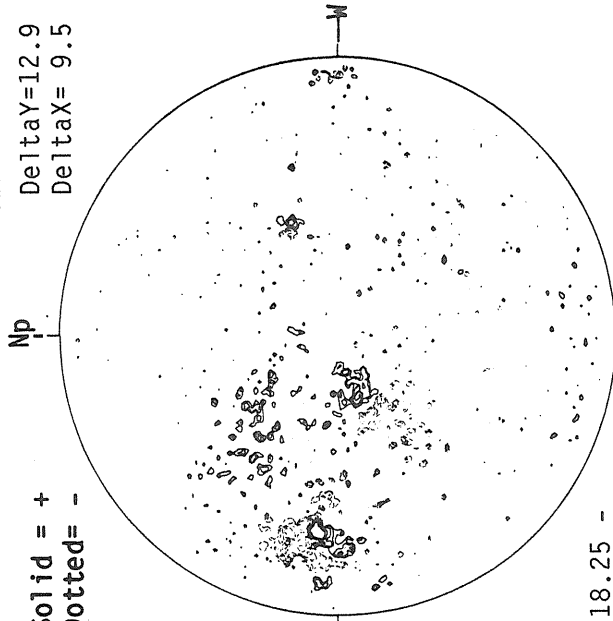
Solid = +
Dashed = -



2149 UT

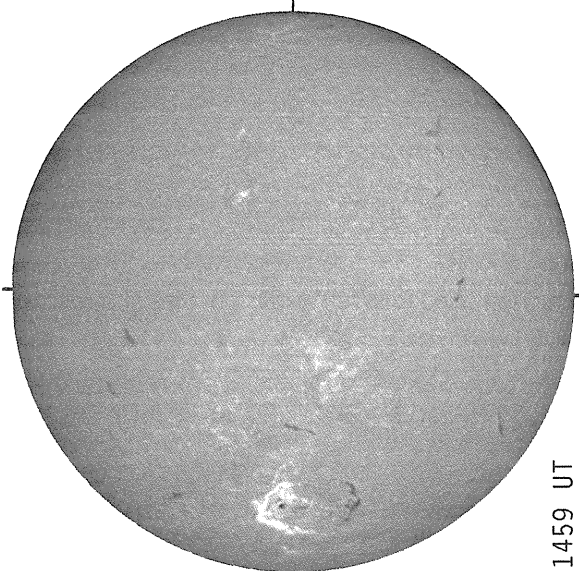
MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -
Delta Y = 12.9
Delta X = 9.5



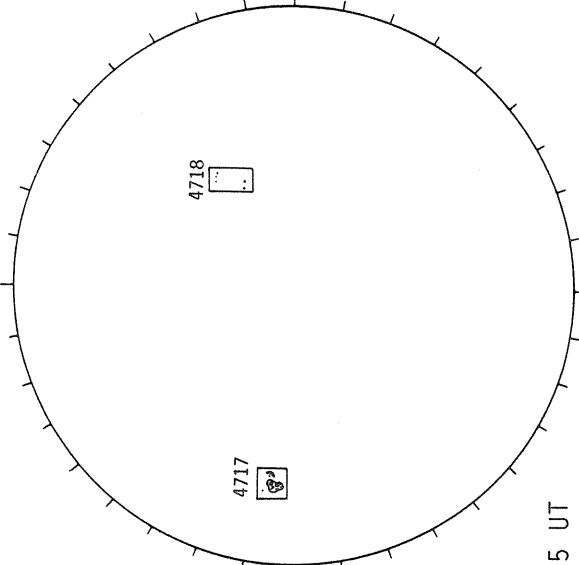
18.25 -
19.24 UT

SACRAMENTO PEAK H-ALPHA



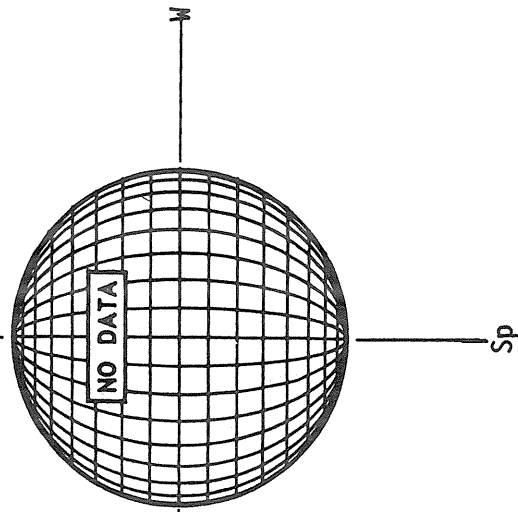
1459 UT

BOULDER SUNSPOTS



1515 UT
1647 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)

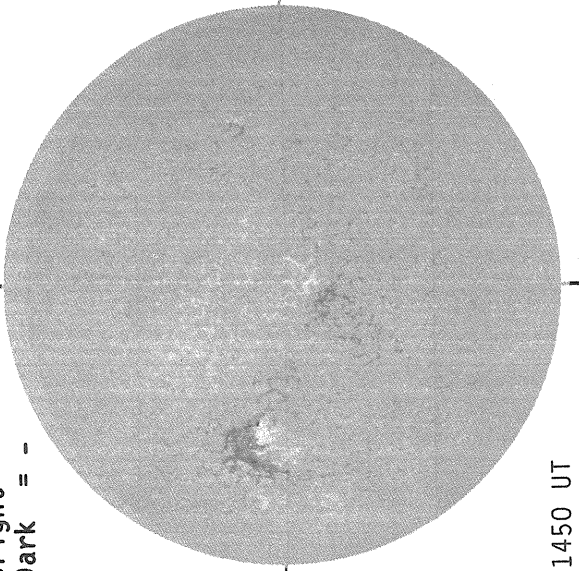


MARCH 04, 1986 (P=-22.19, B₀=-7.14, L₀= 77.16)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

Np

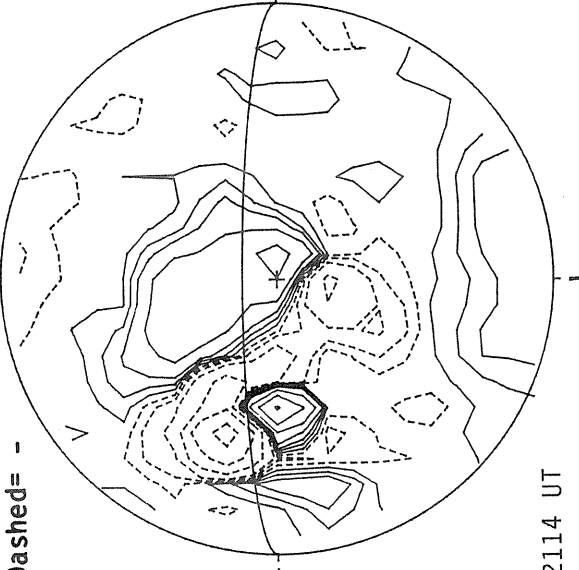


1450 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np



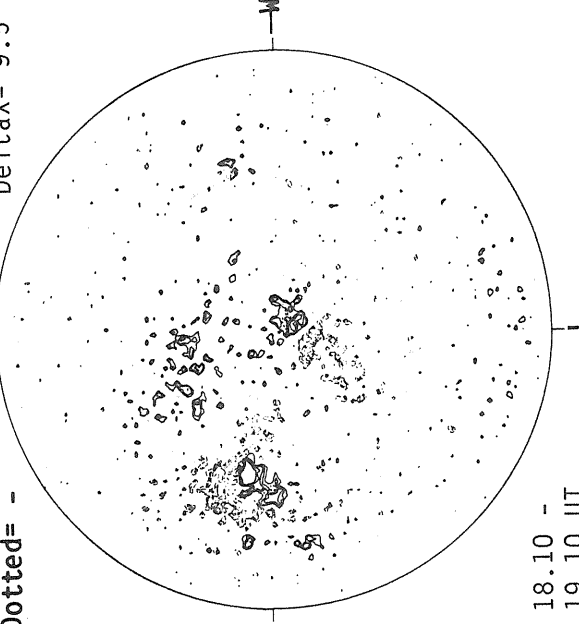
2114 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

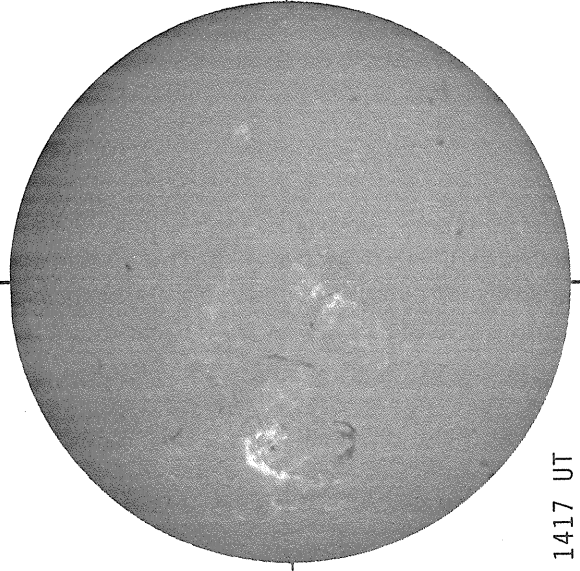
Np

DeltaY=12.8
DeltaX= 9.5



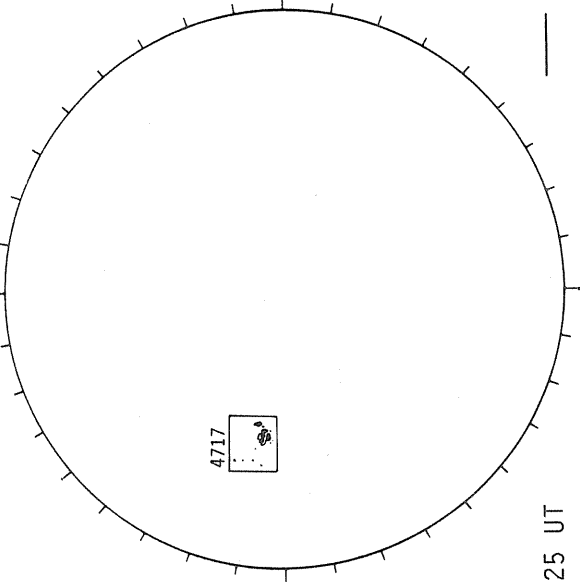
18.10 -
19.10 UT

SACRAMENTO PEAK H-ALPHA



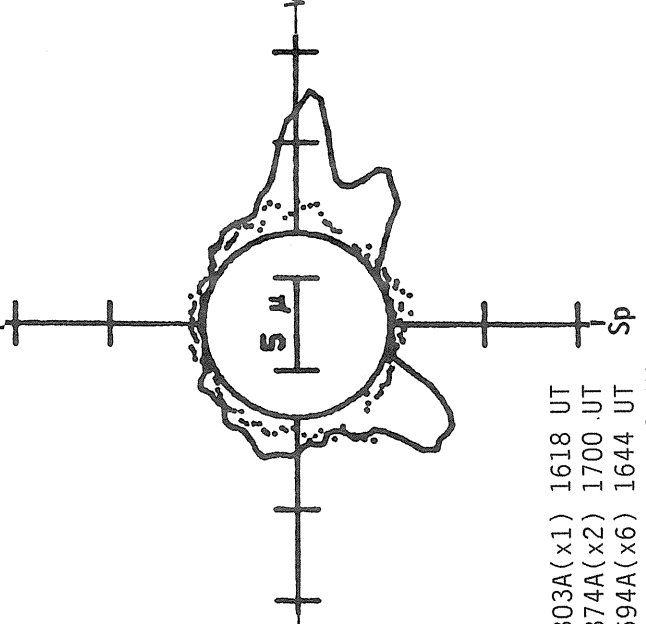
1417 UT

BOULDER SUNSPOTS



1525 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

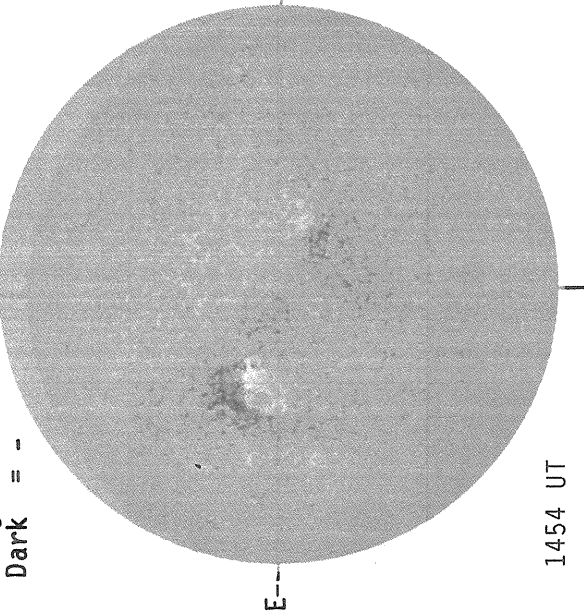


— 5303A(x1) 1618 UT
 6374A(x2) 1700 UT
 xxxxx 5694A(x6) 1644 UT
 NO 5694A ACTIVITY TODAY

MARCH 05, 1986 (P=-22.42, B₀=-7.14, L₀= 63.98)

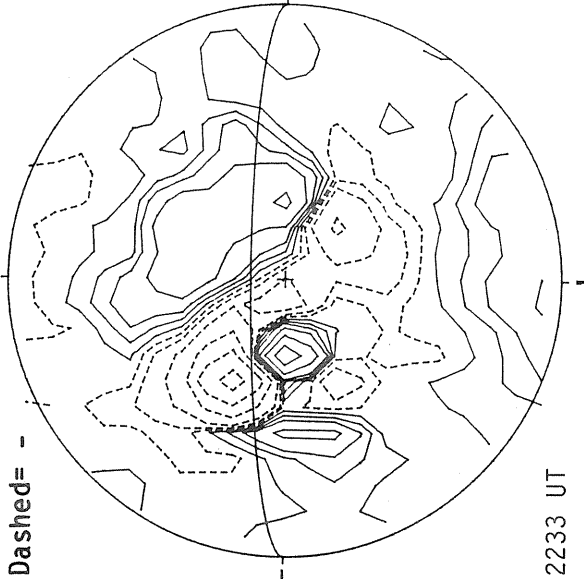
KITT PEAK MAGNETOGRAM

Bright= +
Dark = -



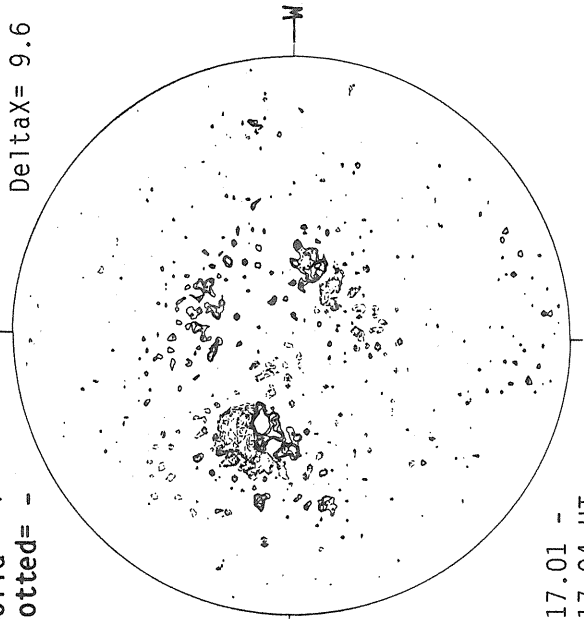
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



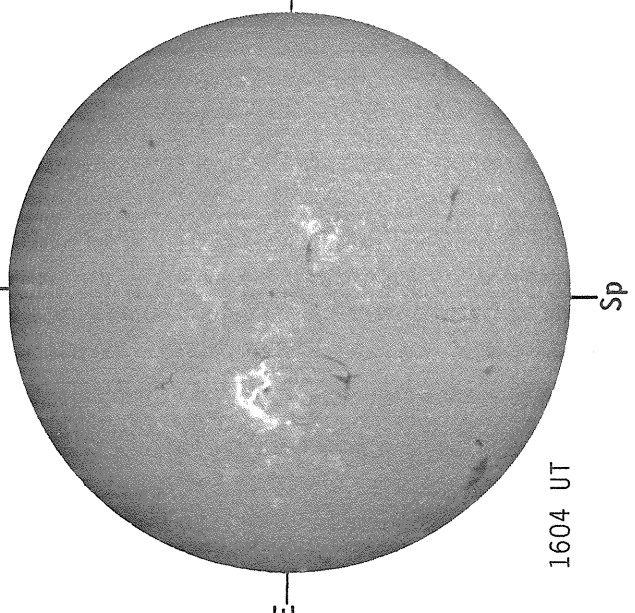
MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

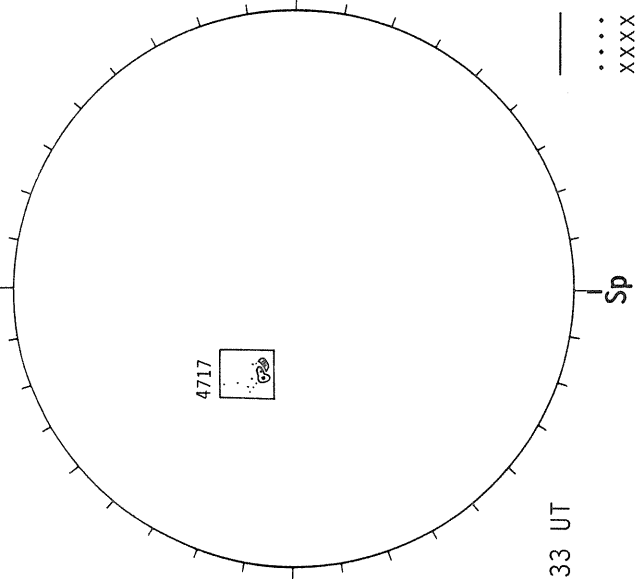


Delta Y = 13.0
Delta X = 9.6

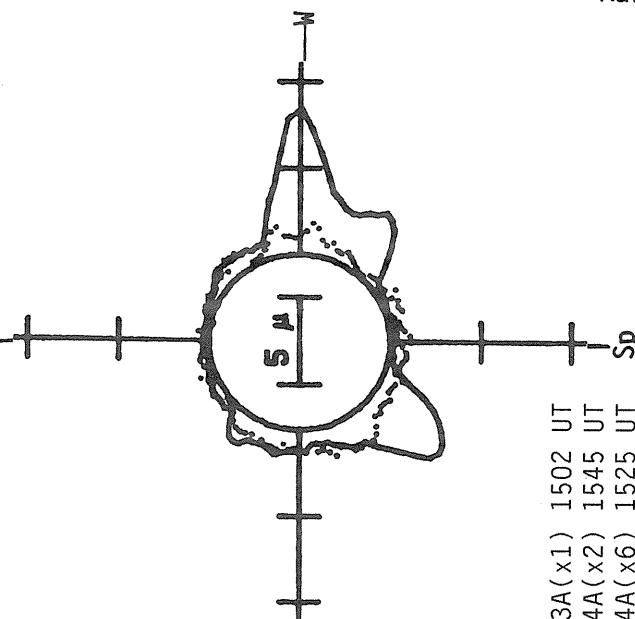
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)



— 5303A(x1) 1502 UT
..... 6374A(x2) 1545 UT
xxxxx 5694A(x6) 1525 UT
NO 5694A ACTIVITY TODAY

M A R C H 06, 1 9 8 6 (P=-22.64, B₀=-7.15, L₀= 50.81)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

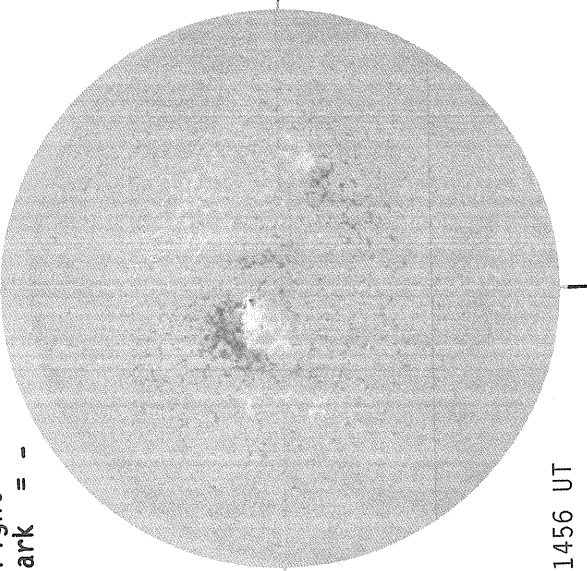
Solid = +
Dashed = -

STANFORD MAGNETOGRAM

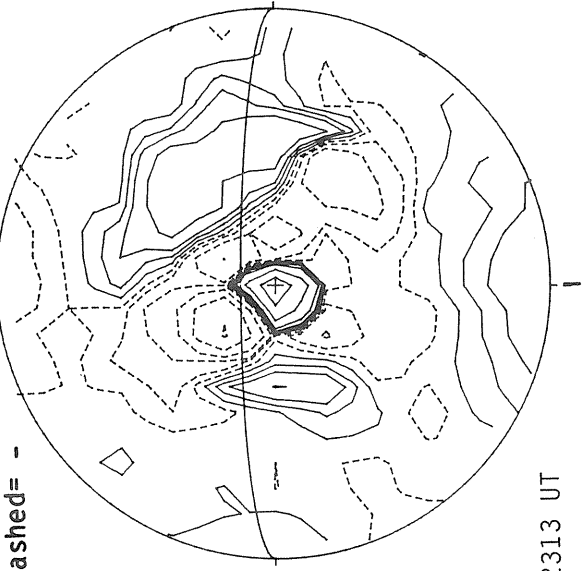
Solid = +
Dotted = -

MT. WILSON MAGNETOGRAM

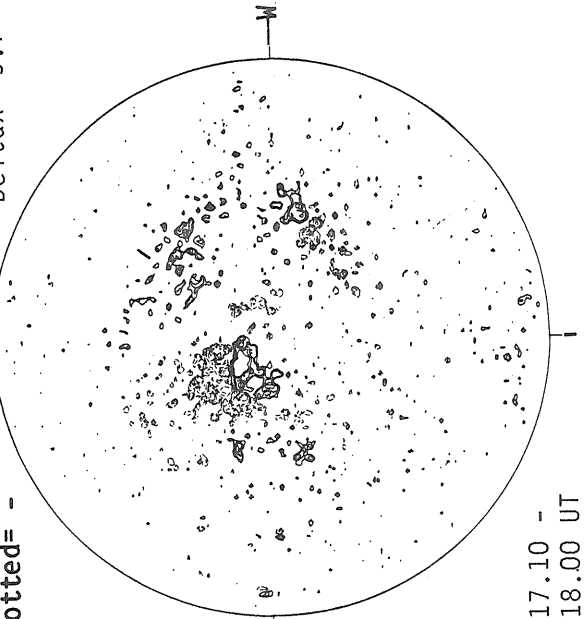
DeltaY=13.0
DeltaX= 9.7



1456 UT

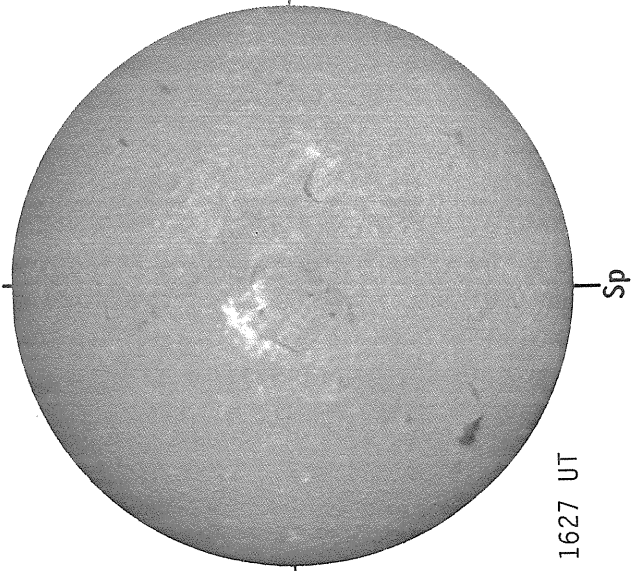


2313 UT



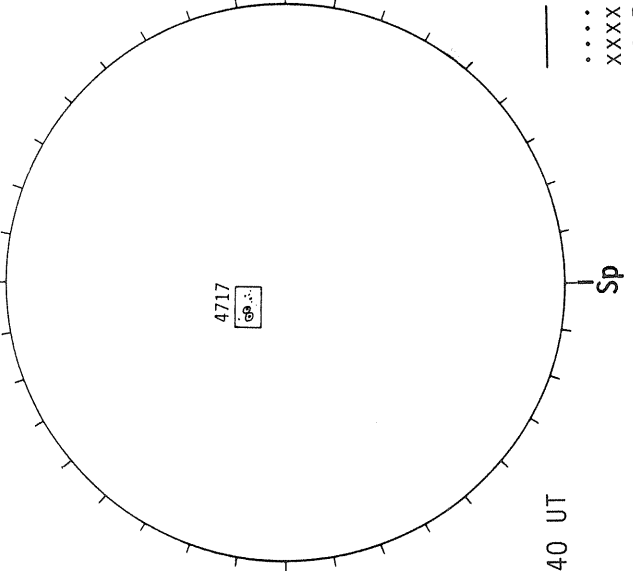
17.10 -
18.00 UT

SACRAMENTO PEAK H-ALPHA



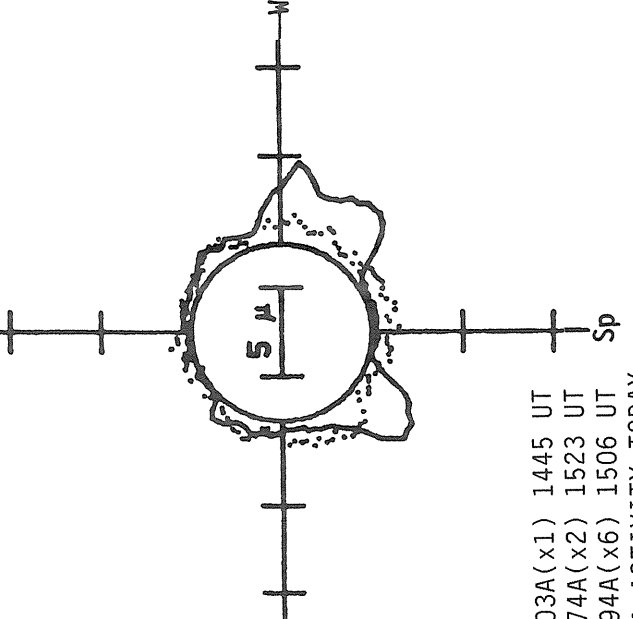
1627 UT

BOULDER SUNSPOTS



1540 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



17.10 -
18.00 UT

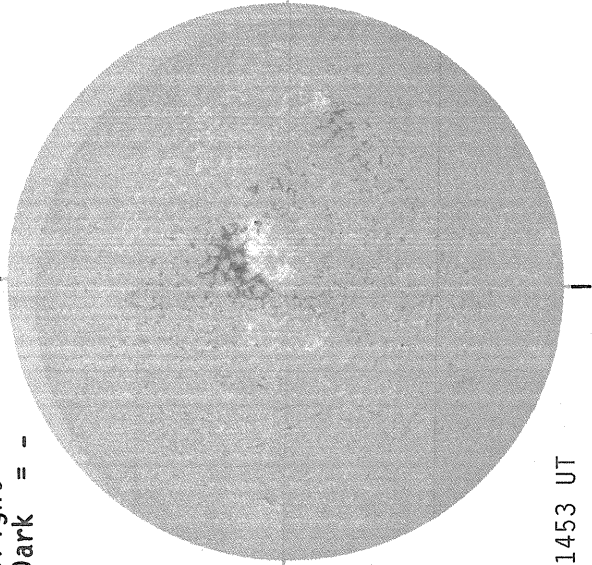
— 5303A(x1) 1445 UT
 6374A(x2) 1523 UT
 xxxxx 5694A(x6) 1506 UT
 NO 5694A ACTIVITY TODAY

M A R C H 07, 1 9 8 6 (P=-22.86, B₀=-7.15, L₀= 37.63)

KITT PEAK MAGNETOGRAM

Np

Bright= +
Dark = -

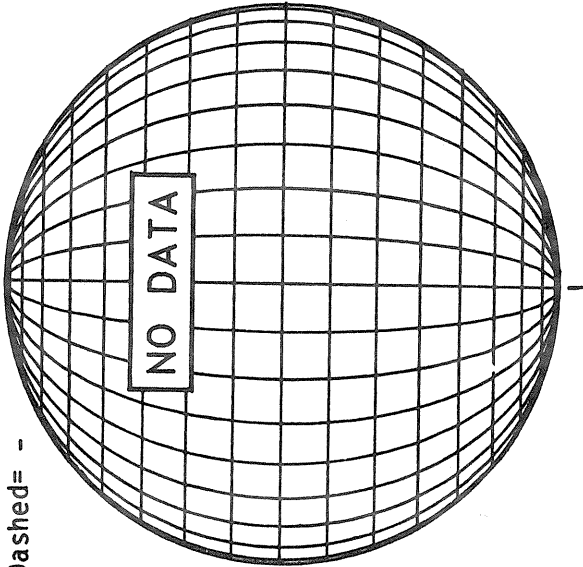


1453 UT

STANFORD MAGNETOGRAM

Np

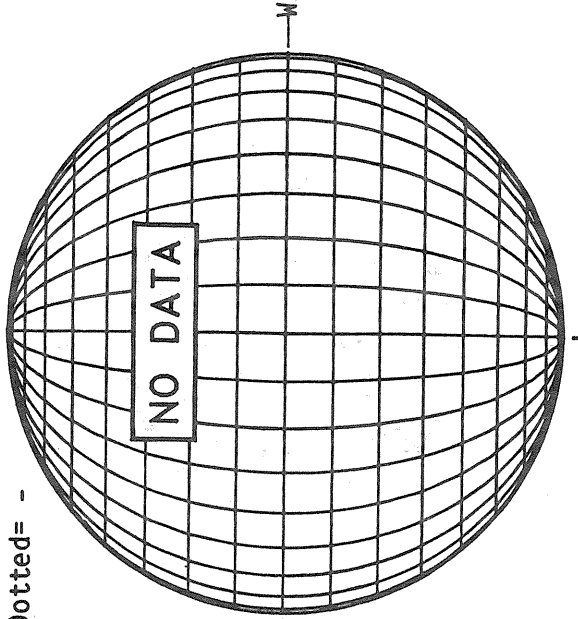
Solid = +
Dashed = -



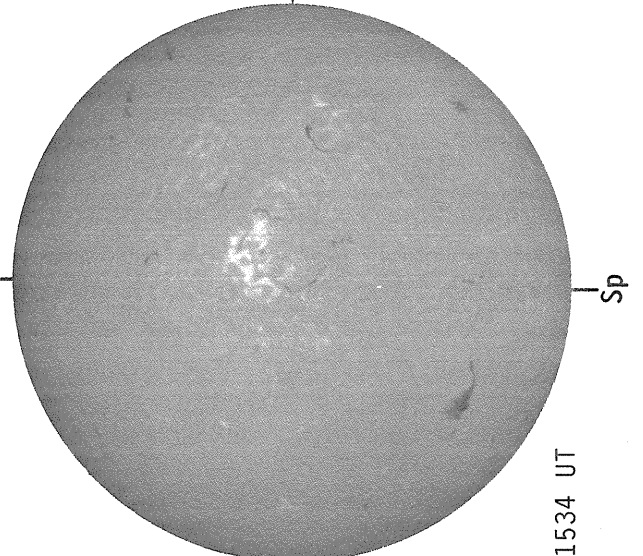
MT. WILSON MAGNETOGRAM

Np

Solid = +
Dotted = -



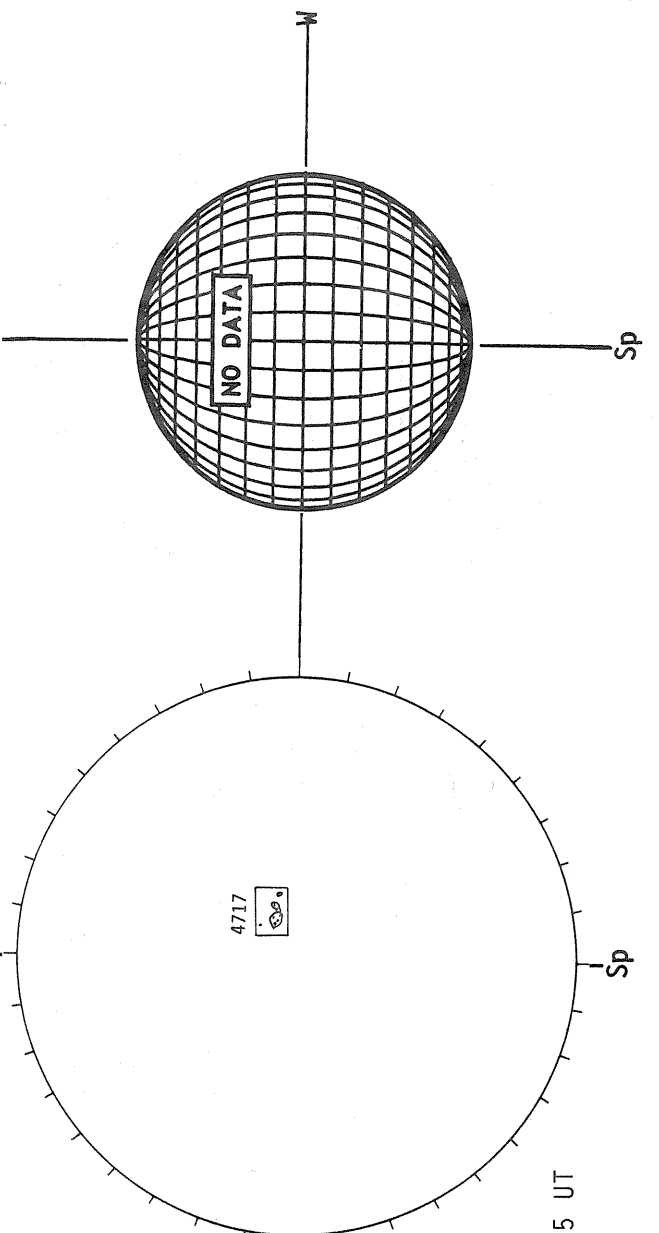
SACRAMENTO PEAK H-ALPHA



1534 UT

BOULDER SUNSPOTS

SACRAMENTO PEAK CORONA (1.15 Radii)



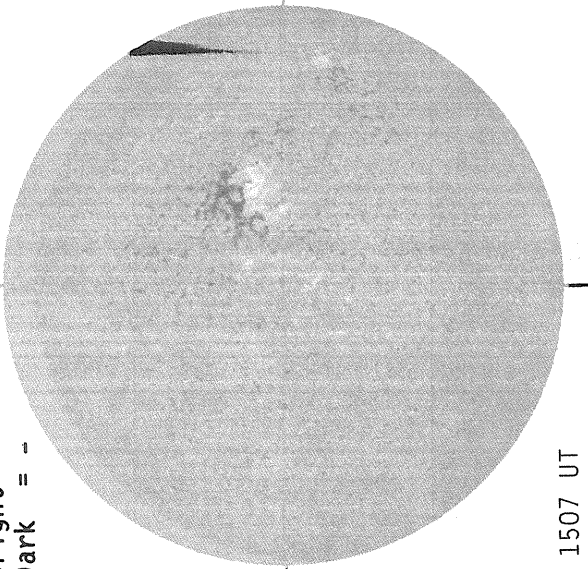
1725 UT

M A R C H 08, 1 9 8 6 (P=-23.07, B₀=-7.14, L₀= 24.46)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

Np

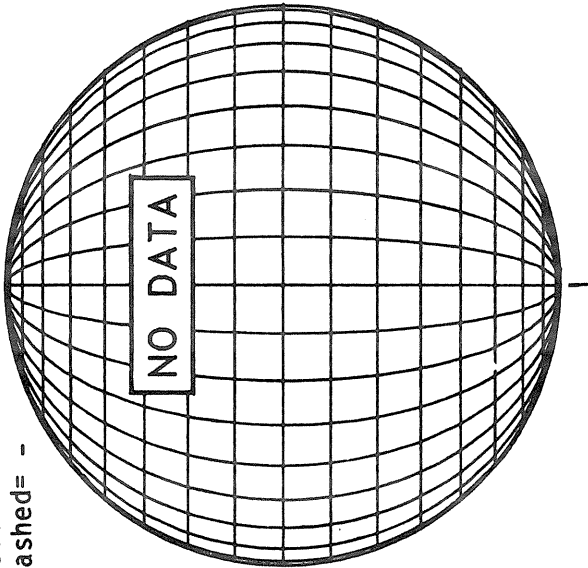


1507 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

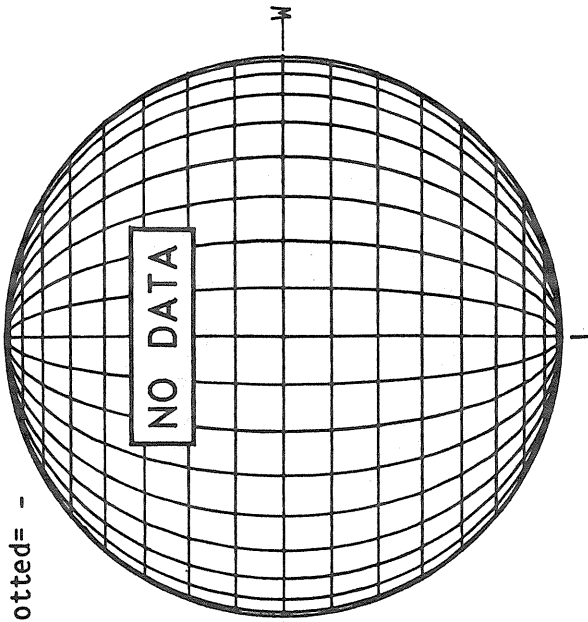


NO DATA

MT. WILSON MAGNETOGRAM

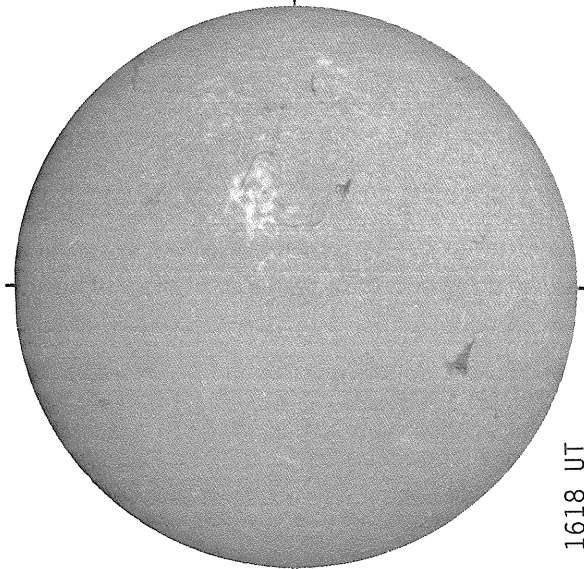
Solid = +
Dotted = -

Np



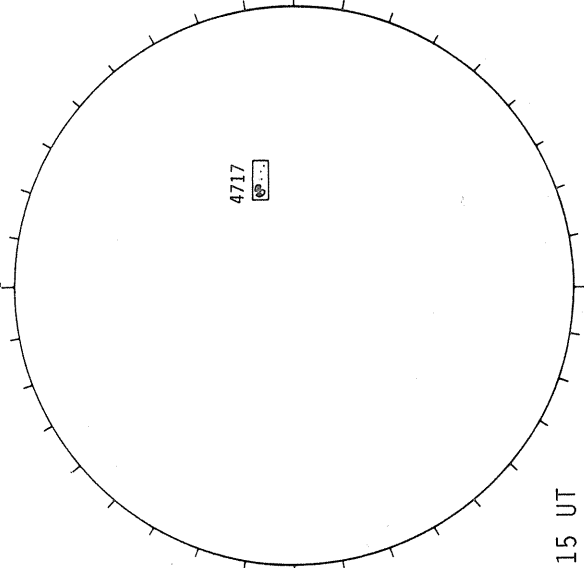
NO DATA

SACRAMENTO PEAK H-ALPHA



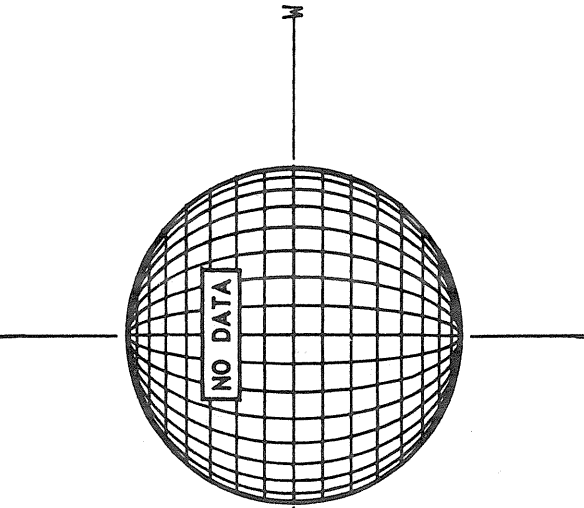
1618 UT

BOULDER SUNSPOTS



1715 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

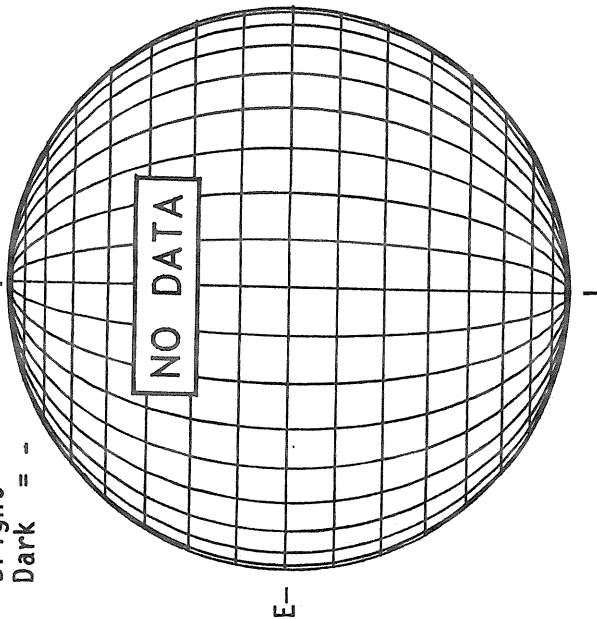


NO DATA

MARCH 09, 1986 (P=-23.27, B₀=-7.14, L₀= 11.28)

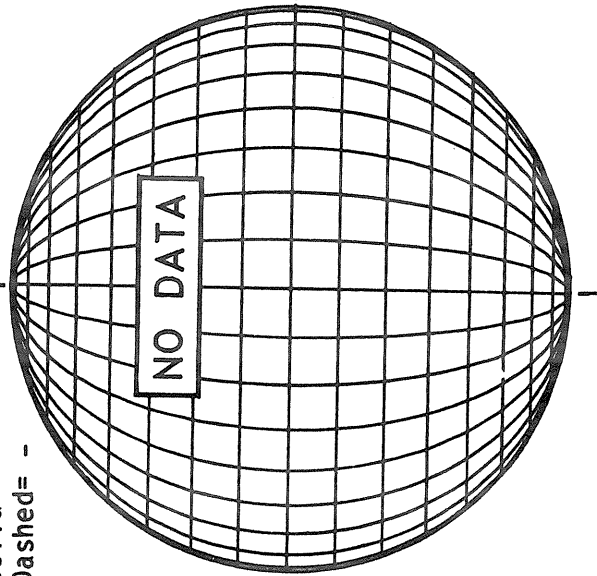
KITT PEAK MAGNETOGRAM

Bright= +
Dark = -



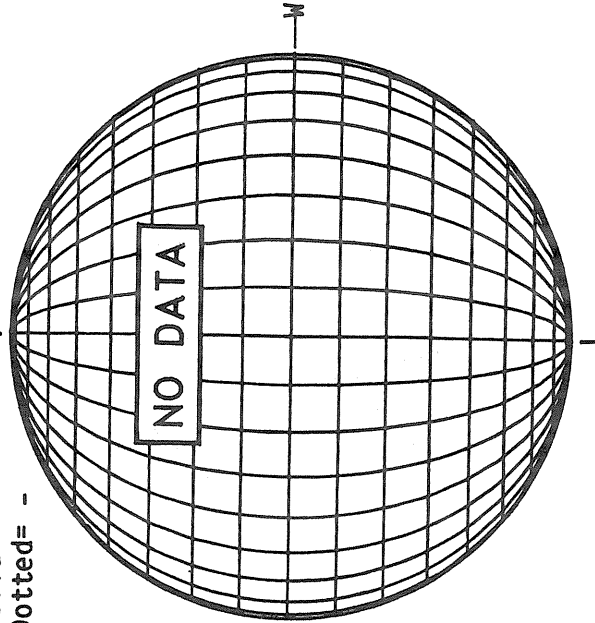
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

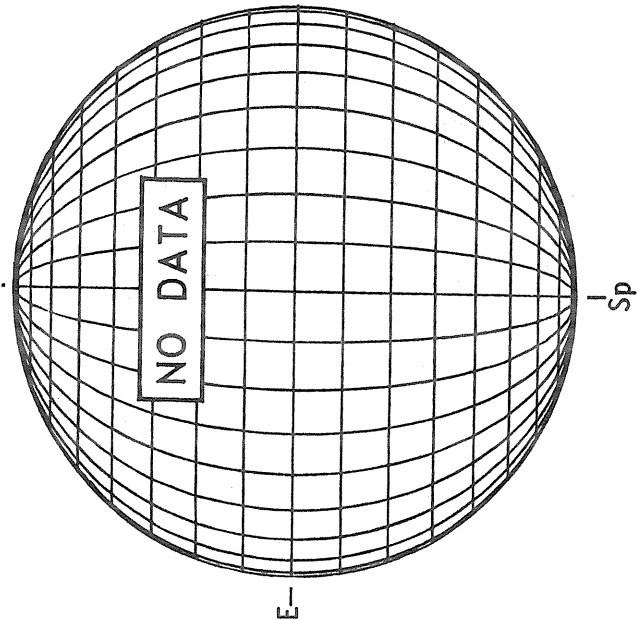


MT. WILSON MAGNETOGRAM

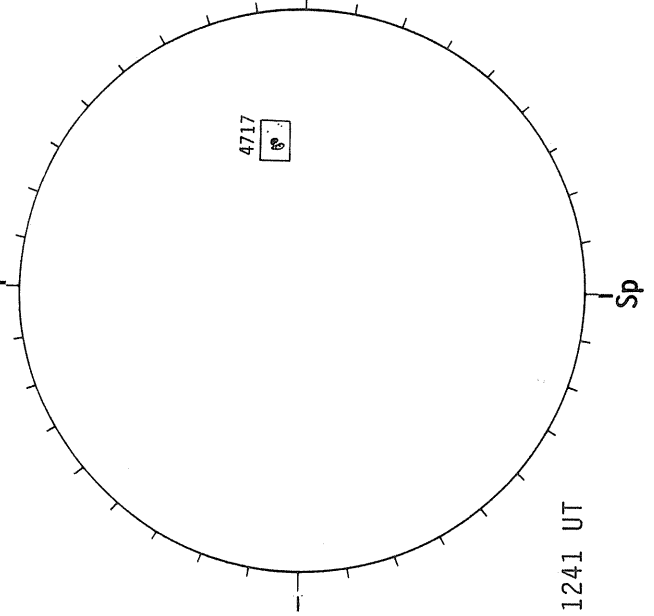
Solid = +
Dotted = -



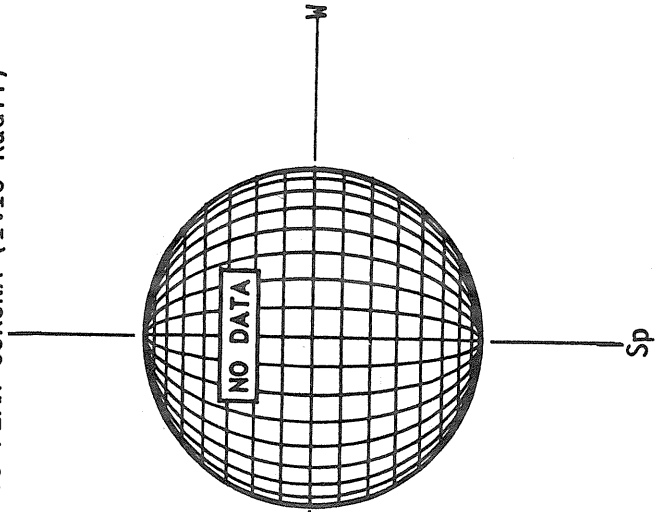
SACRAMENTO PEAK H-ALPHA



RAMEY SUNSPOTS

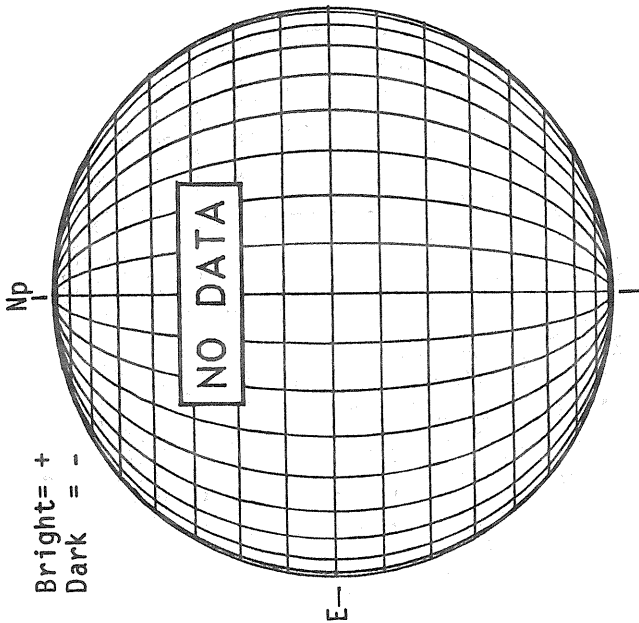


SACRAMENTO PEAK CORONA (1.15 Radii)



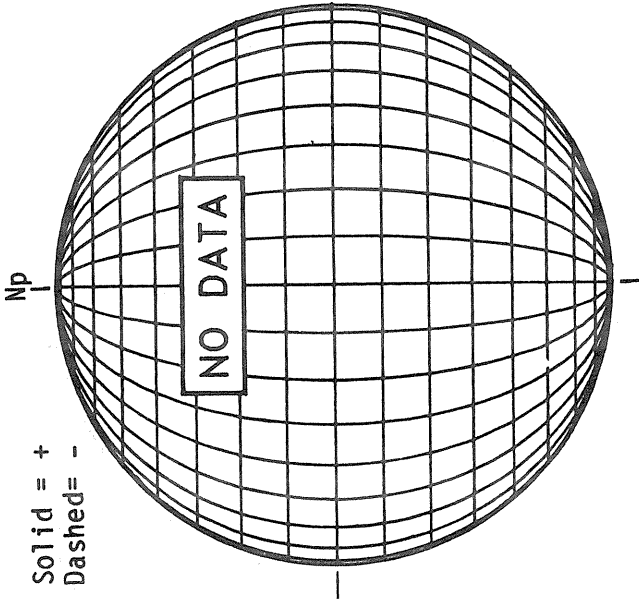
M A R C H 10, 1986 (P=-23.47, B₀=-7.13, L₀= 358.10)

KITT PEAK MAGNETOGRAM



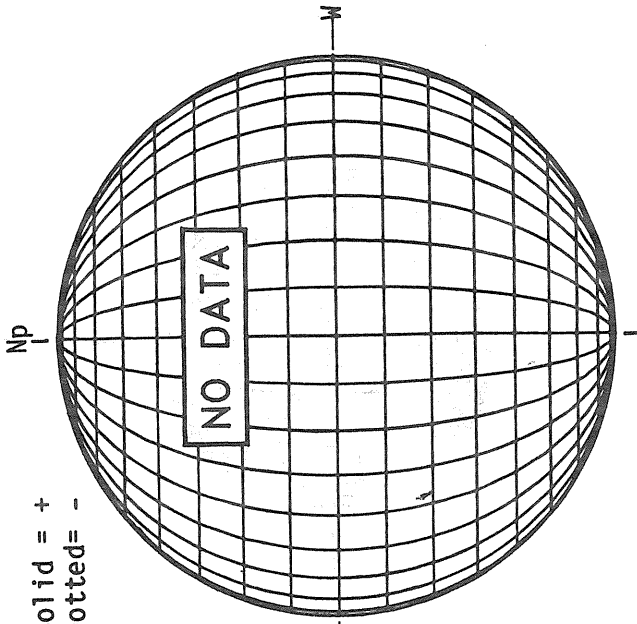
Bright = +
Dark = -

STANFORD MAGNETOGRAM



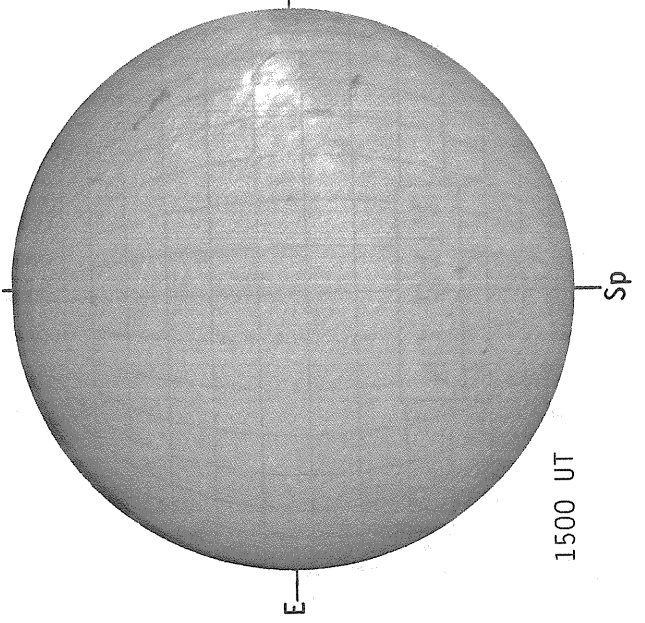
Solid = +
Dashed = -

MT. WILSON MAGNETOGRAM



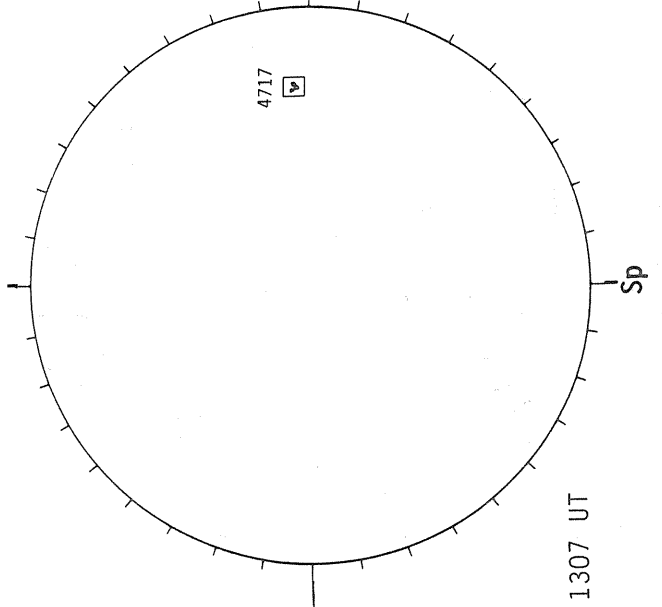
Solid = +
Dotted = -

SACRAMENTO PEAK H-ALPHA



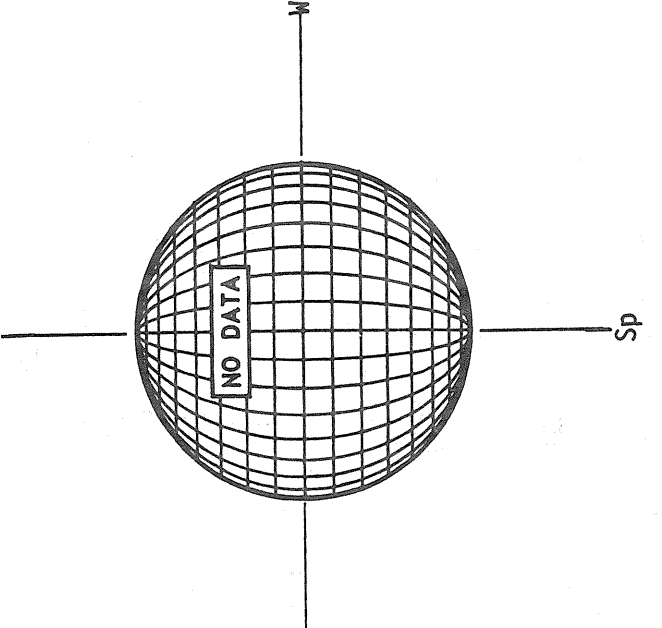
1500 UT

RAMEY SUNSPOTS



1307 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

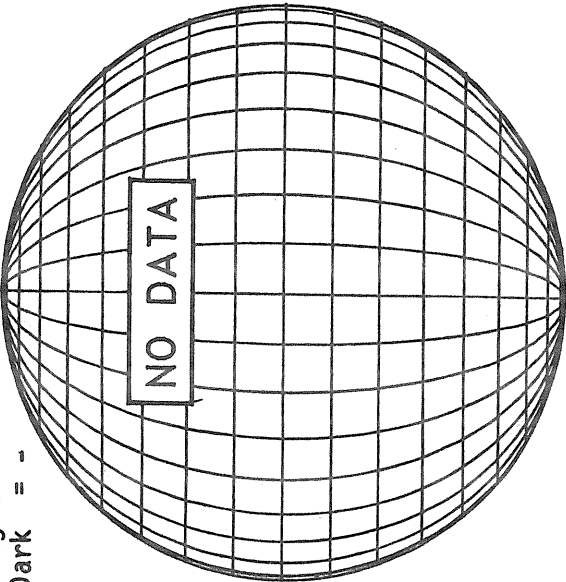


M A R C H 11, 1 9 8 6 (P=-23.66, B₀=-7.13, L₀= 344.93)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

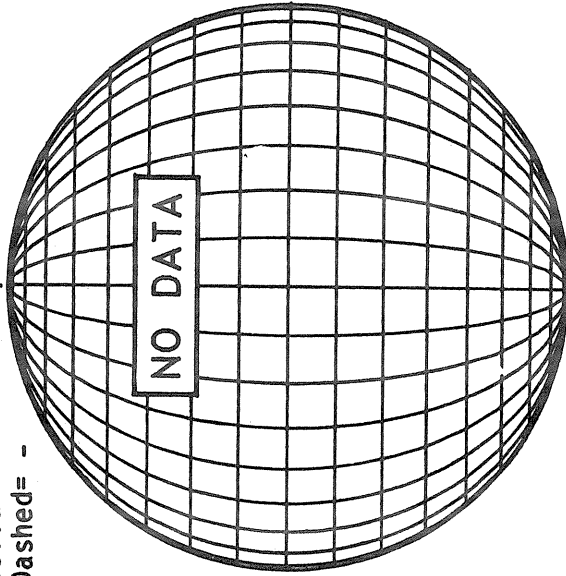
Np



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

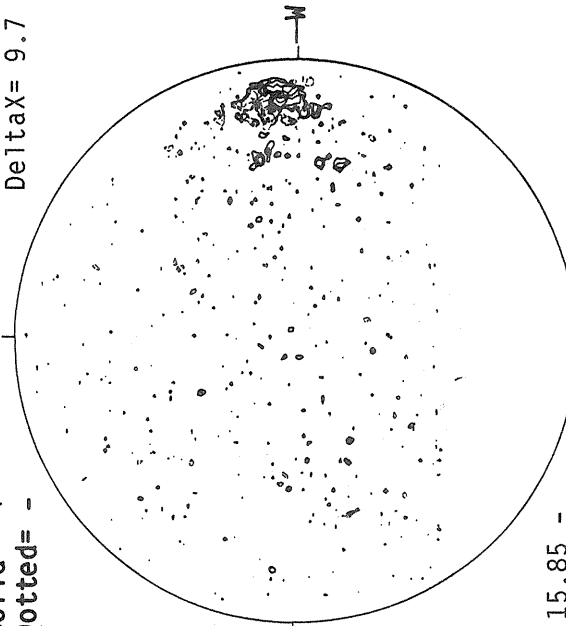
Np



MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

Np

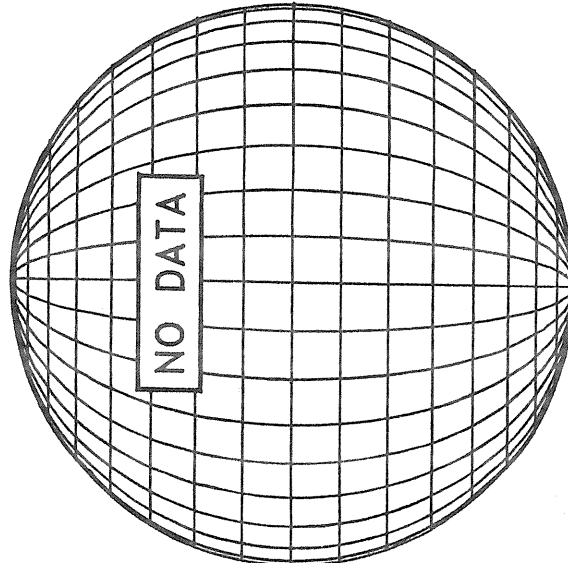


DeltaY=13.1
DeltaX= 9.7

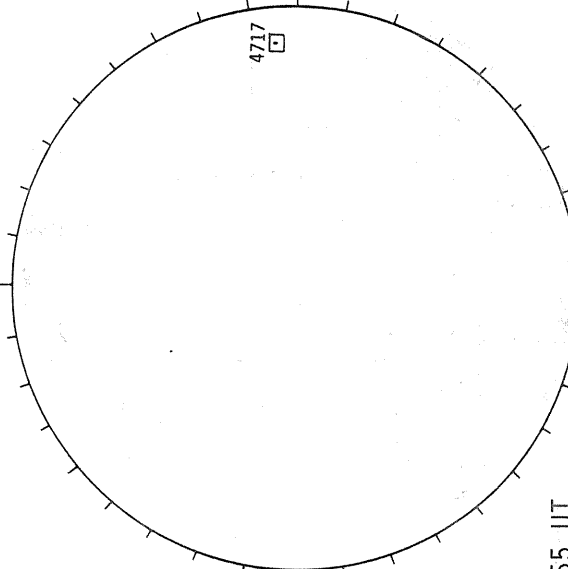
15.85 -
16.58 UT

DATA INCOMPLETE

SACRAMENTO PEAK H-ALPHA

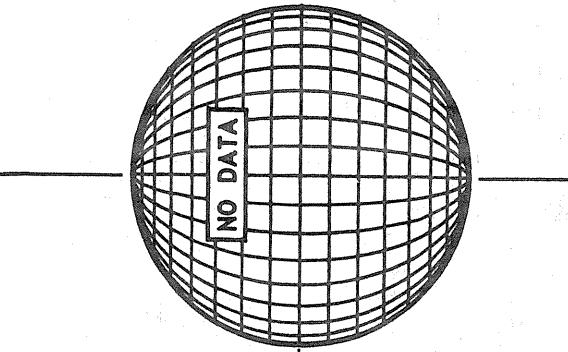


BOULDER SUNSPOTS



1755 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

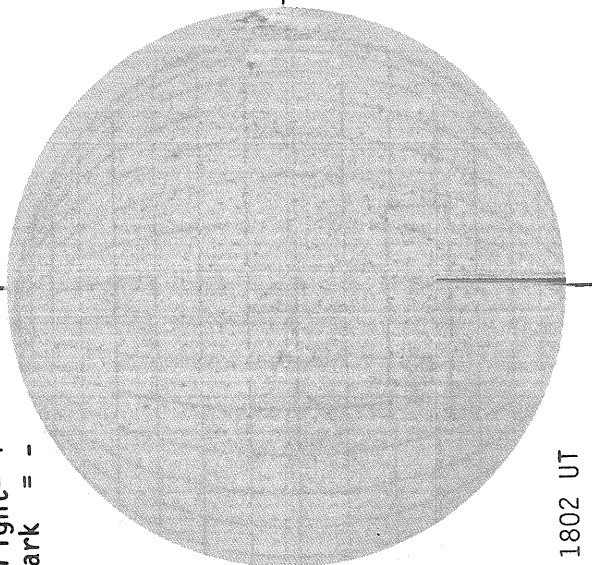


MARCH 12, 1986 (P=-23.85, B₀=-7.12, L₀=331.75)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

Np



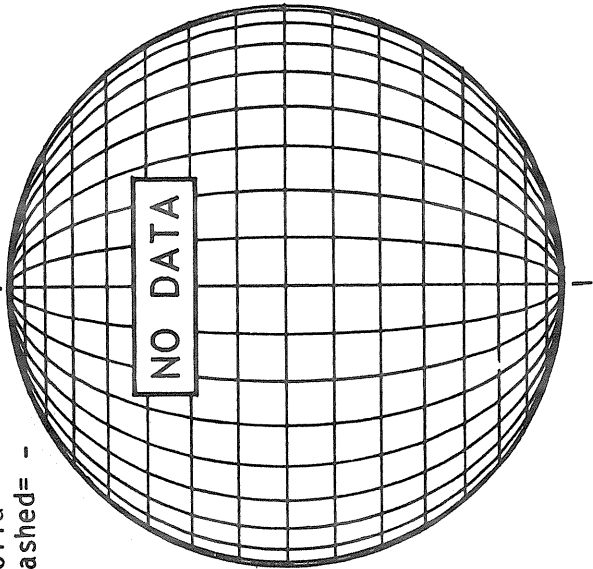
1802 UT

E

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np



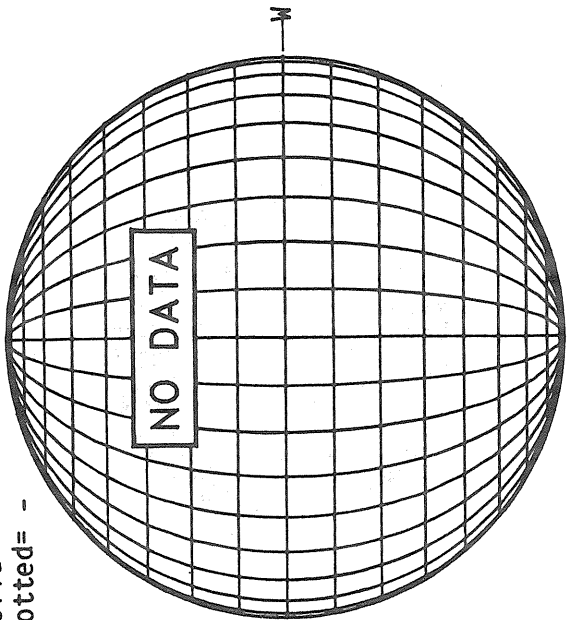
NO DATA

M

MT. WILSON MAGNETOGRAM

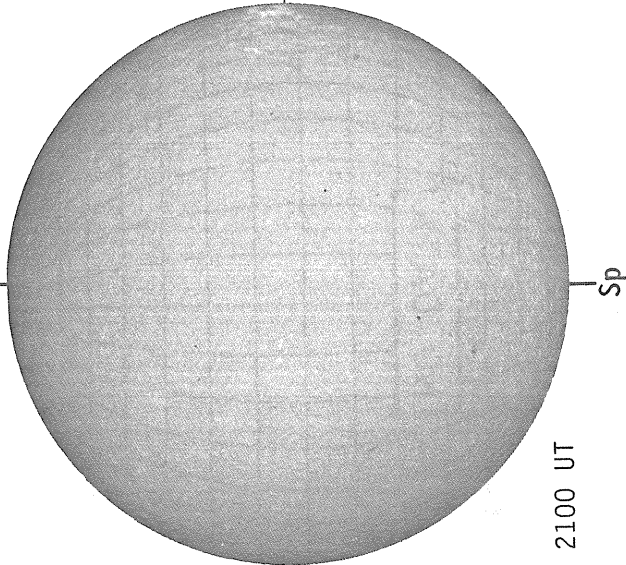
Solid = +
Dotted = -

Np



NO DATA

SACRAMENTO PEAK H-ALPHA



2100 UT

E

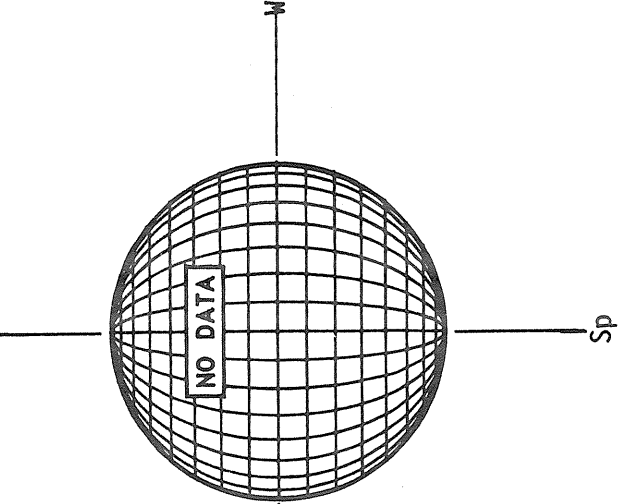
BOULDER SUNSPOTS

NO SPOTS OBSERVED

1840 UT

Sp

SACRAMENTO PEAK CORONA (1.15 Radii)



NO DATA

M

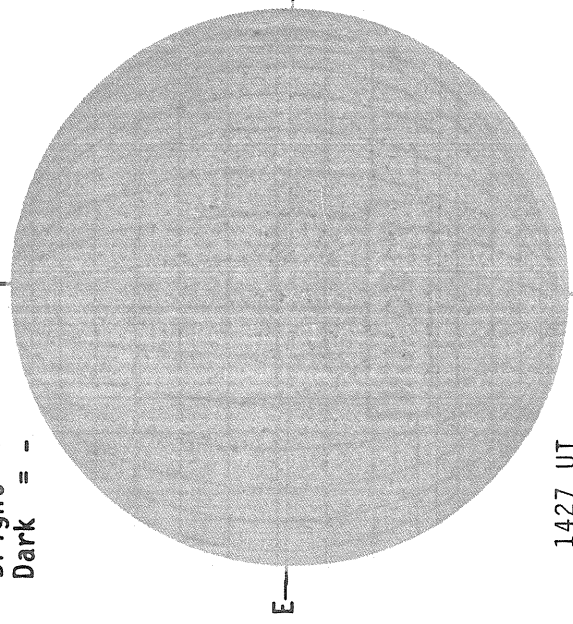
Sp

M A R C H 13, 1 9 8 6 (P=-24.02, B₀=-7.10, L₀= 318.57)

KITT PEAK MAGNETOGRAM

Np

Bright= +
Dark = -

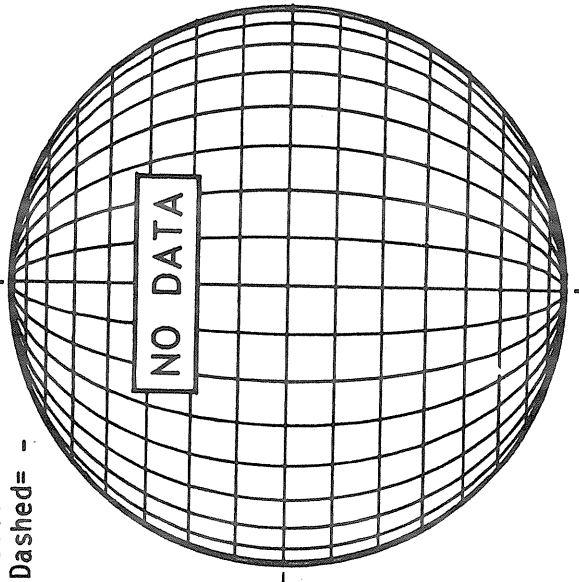


1427 UT

STANFORD MAGNETOGRAM

Np

Solid = +
Dashed = -

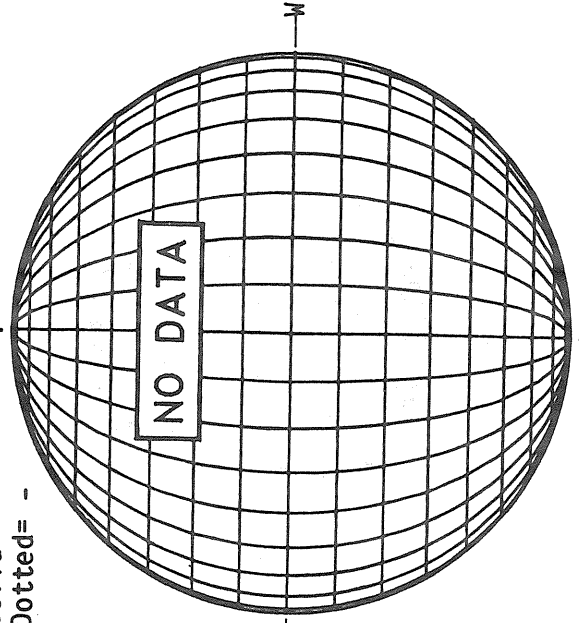


NO DATA

MT. WILSON MAGNETOGRAM

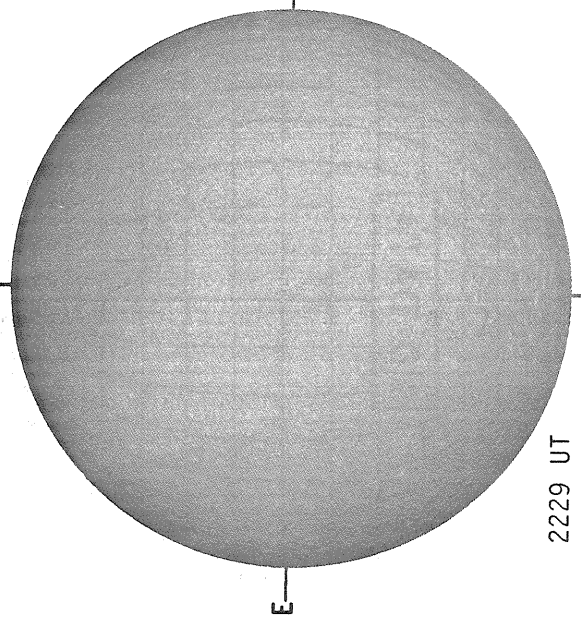
Np

Solid = +
Dotted = -



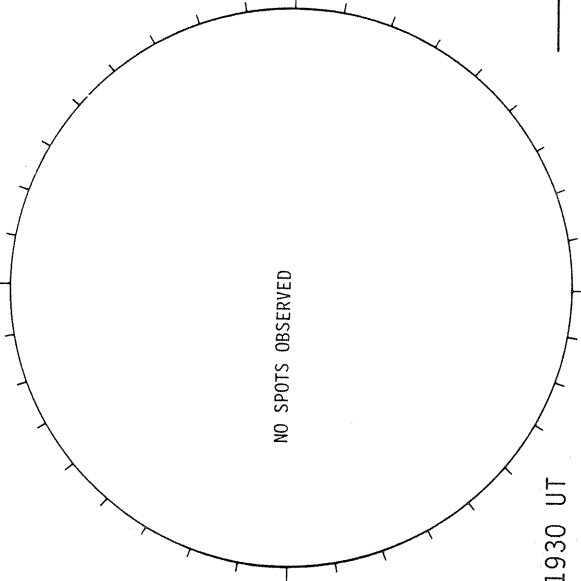
NO DATA

SACRAMENTO PEAK H-ALPHA



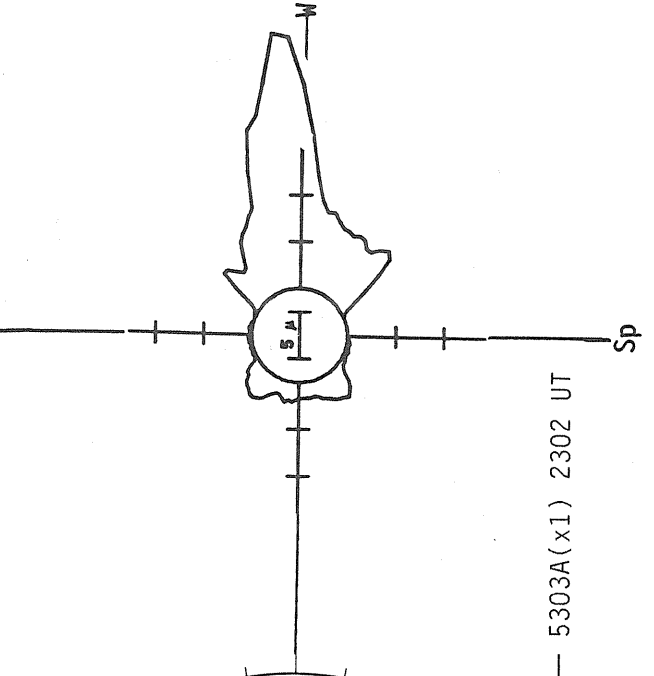
2229 UT

BOULDER SUNSPOTS



1930 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



NO DATA

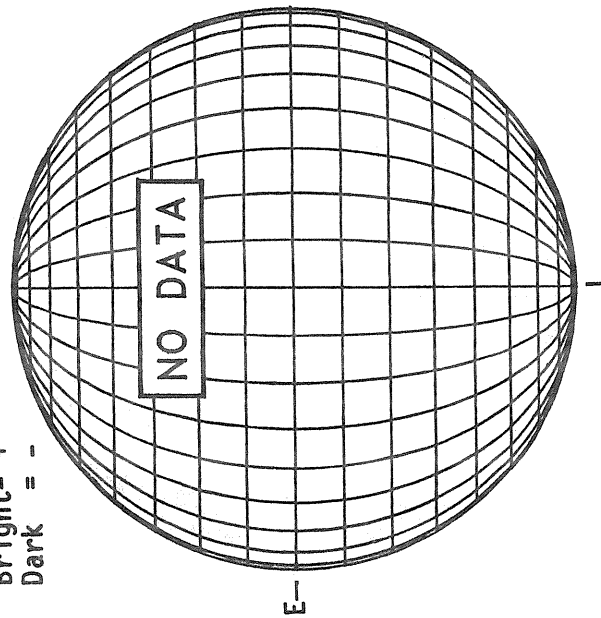
5303A(x1) 2302 UT

NO SPOTS OBSERVED

M A R C H 14, 1 9 8 6 (P=-24.19, B₀ = -7.09, L₀ = 305.39)

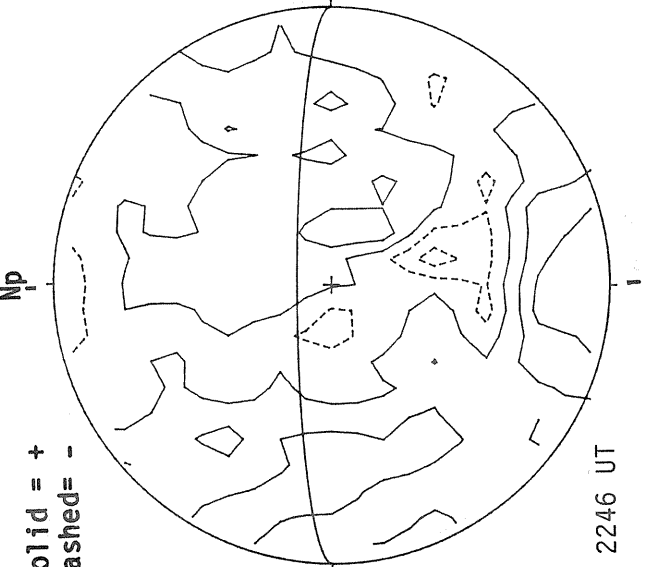
KITT PEAK MAGNETOGRAM

Bright = +
Dark = -



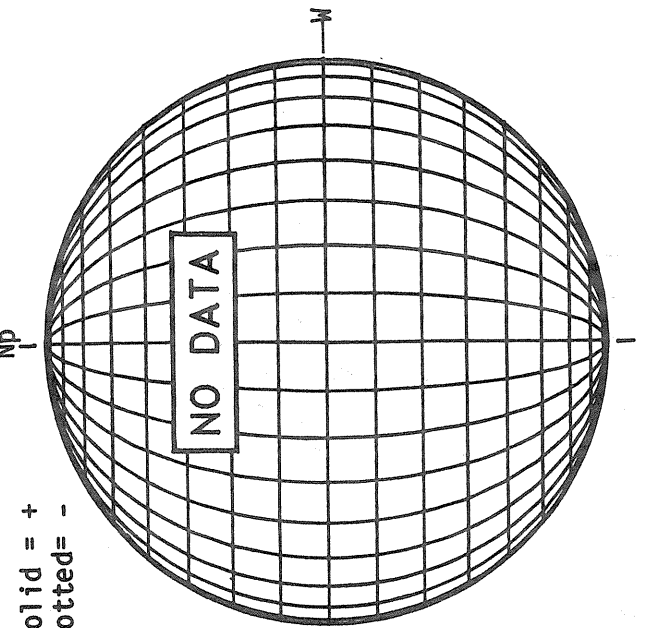
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

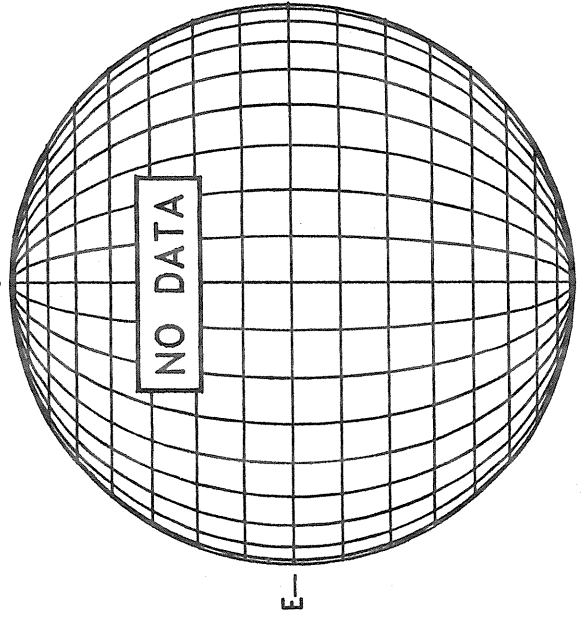


MT. WILSON MAGNETOGRAM

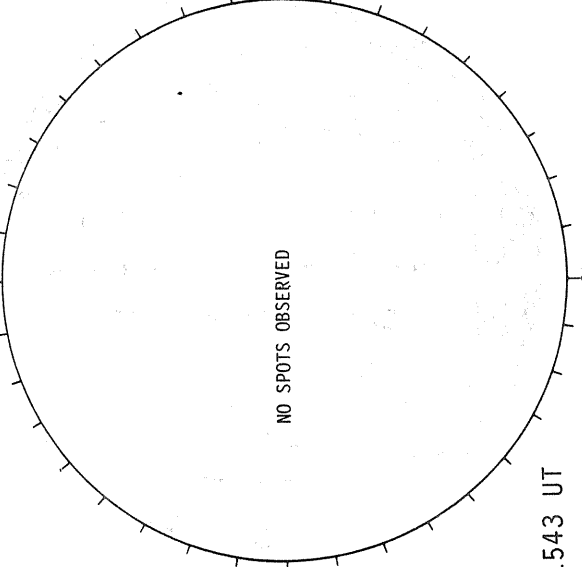
Solid = +
Dotted = -



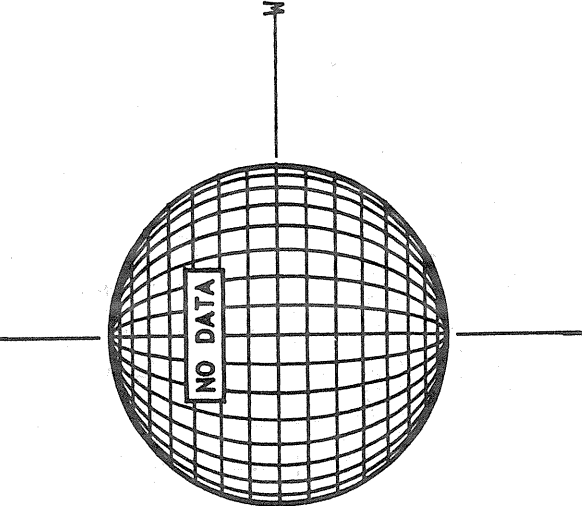
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)



E

Sp

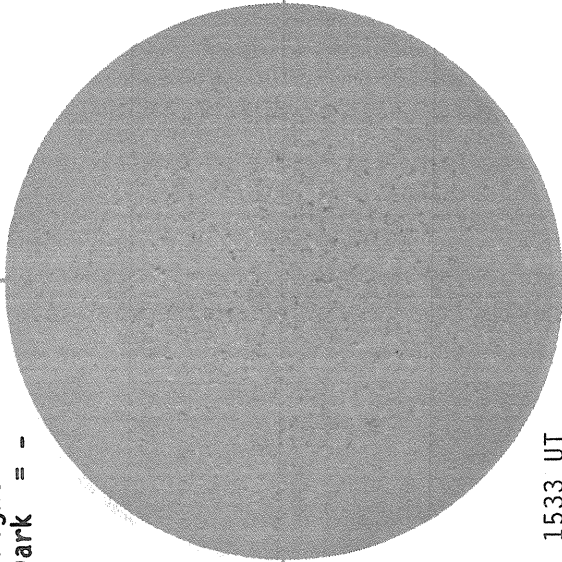
Sp

M A R C H 15, 1 9 8 6 (P=-24.36, B₀=-7.07, L₀= 292.21)

KITT PEAK MAGNETOGRAM

Np

Bright= +
Dark = -

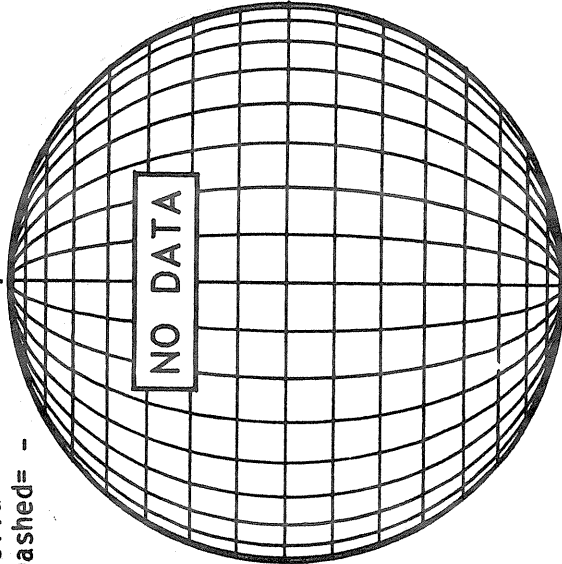


1533 UT

STANFORD MAGNETOGRAM

Np

Solid = +
Dashed = -

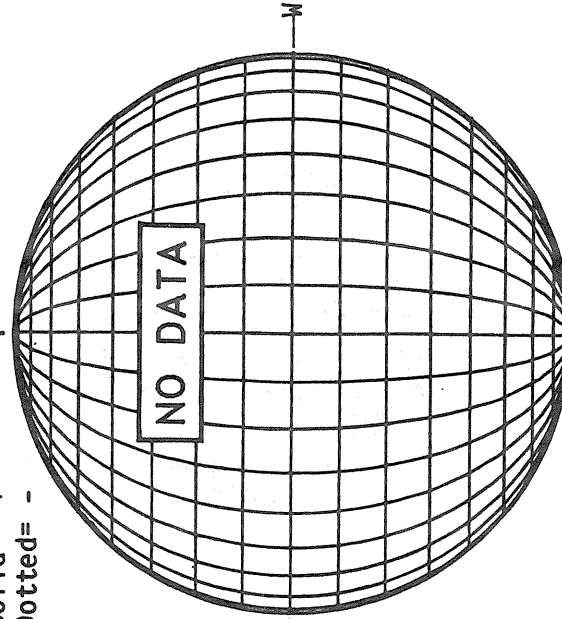


1156 UT

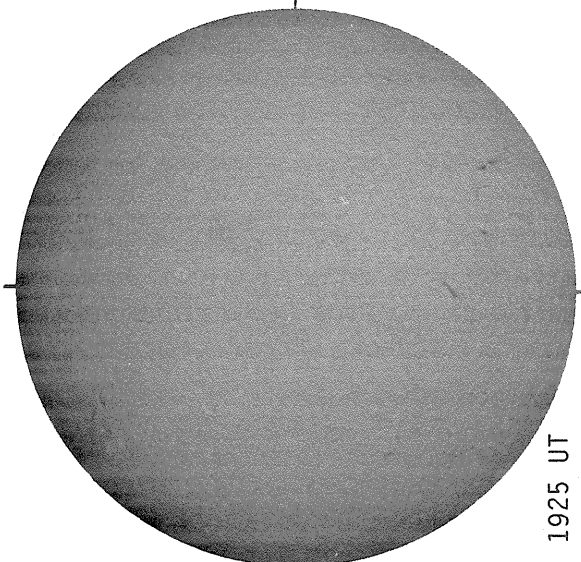
MT. WILSON MAGNETOGRAM

Np

Solid = +
Dotted = -

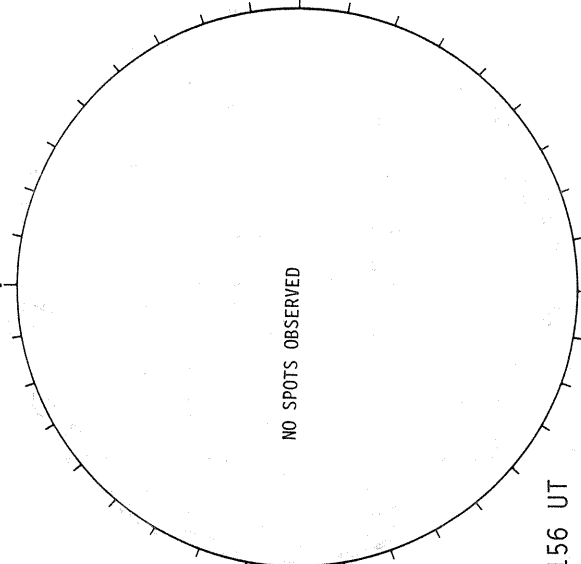


SACRAMENTO PEAK H-ALPHA

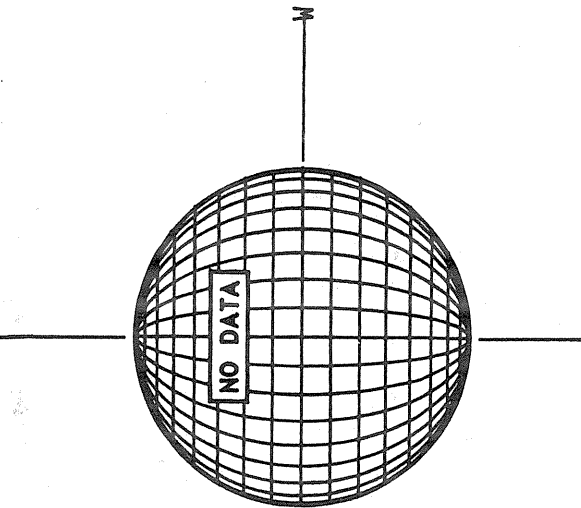


1925 UT

RAMEY SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)



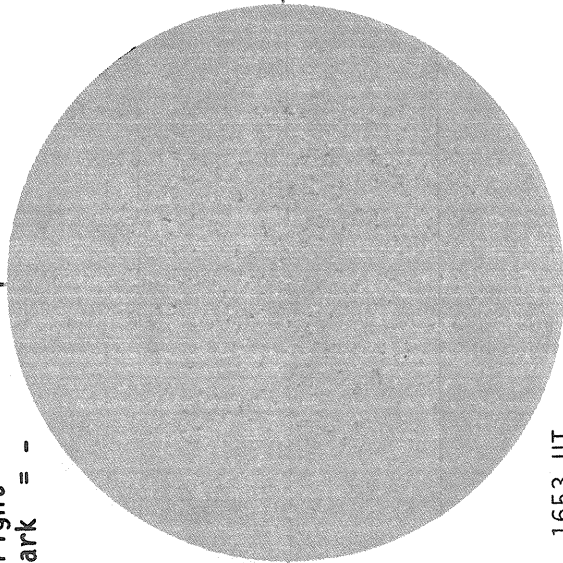
1156 UT

M A R C H 16, 1986 (P=-24.52, B₀=-7.05, L₀= 279.03)

KITT PEAK MAGNETOGRAM

Np

Bright= +
Dark = -

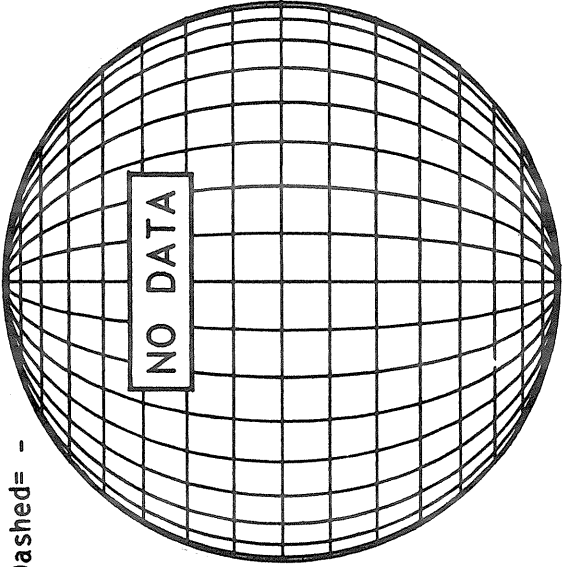


E

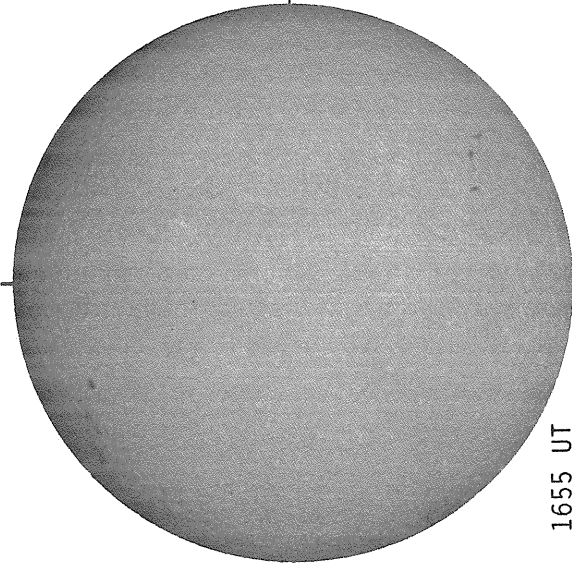
STANFORD MAGNETOGRAM

Np

Solid = +
Dashed = -



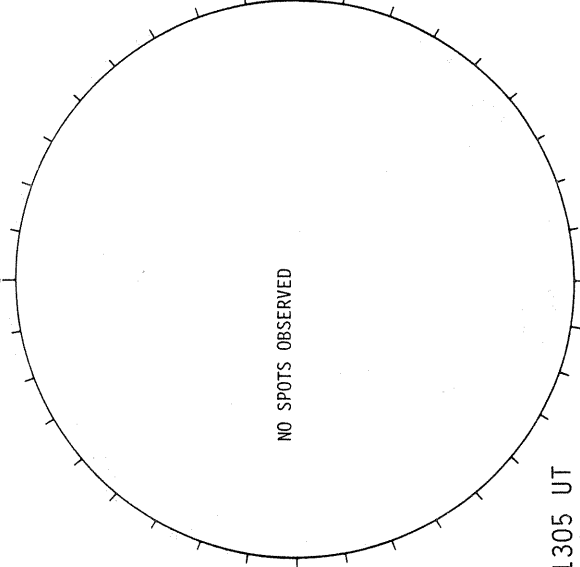
SACRAMENTO PEAK H-ALPHA



E

1655 UT

RAMEY SUNSPOTS



Np

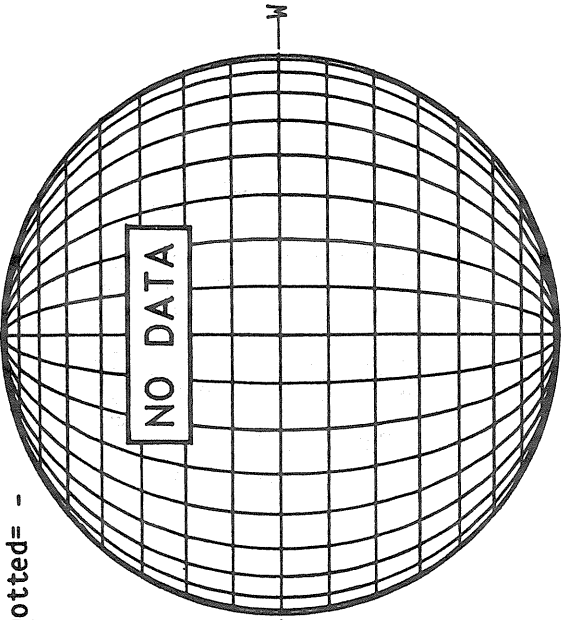
1305 UT

Sp

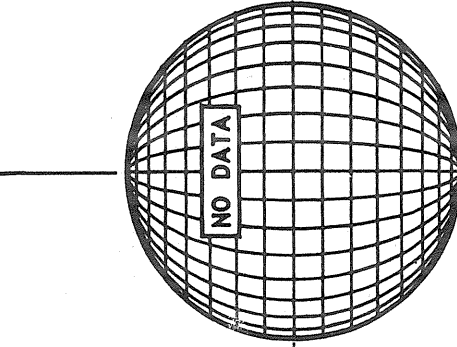
MT. WILSON MAGNETOGRAM

Np

Solid = +
Dotted = -



SACRAMENTO PEAK CORONA (1.15 Radii)



Np

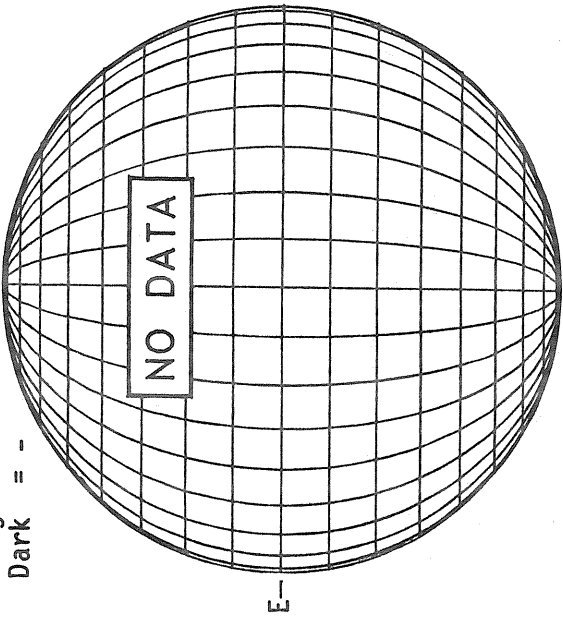
1655 UT

Sp

MARCH 17, 1986 (P=-24.67, B₀=-7.03, L₀= 265.85)

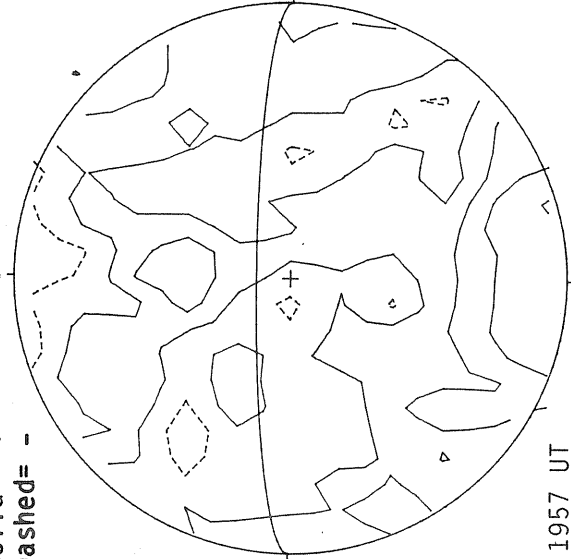
KITT PEAK MAGNETOGRAM

Bright= +
Dark = -



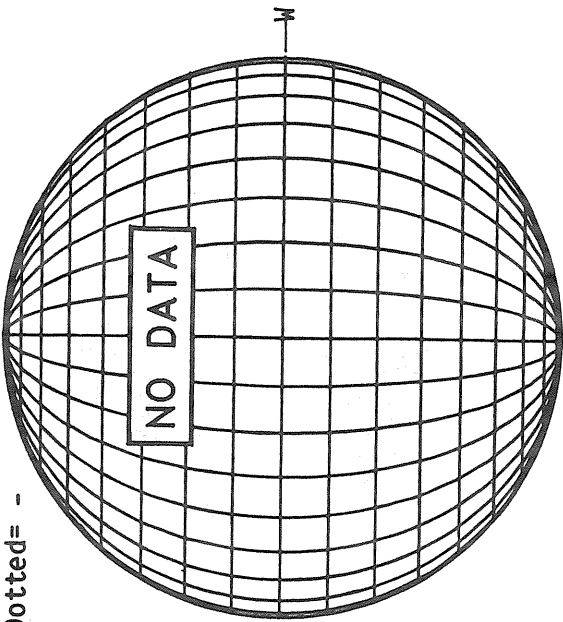
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

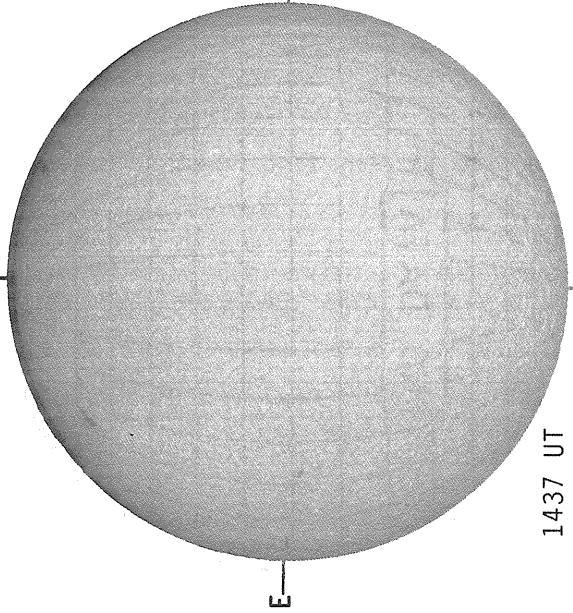


MT. WILSON MAGNETOGRAM

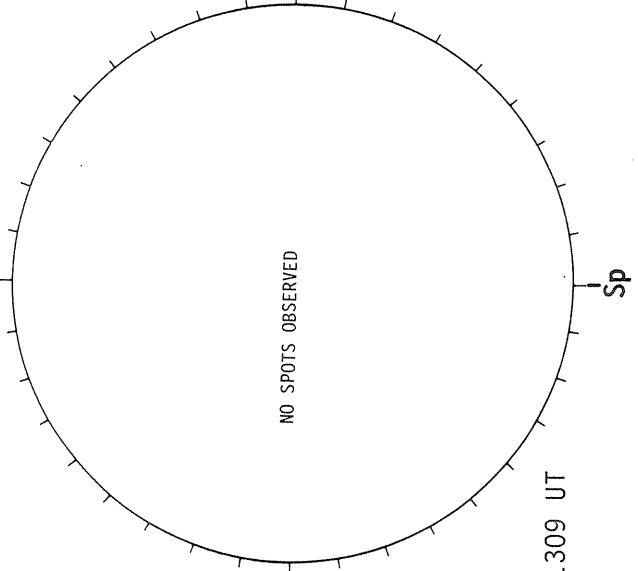
Solid = +
Dotted = -



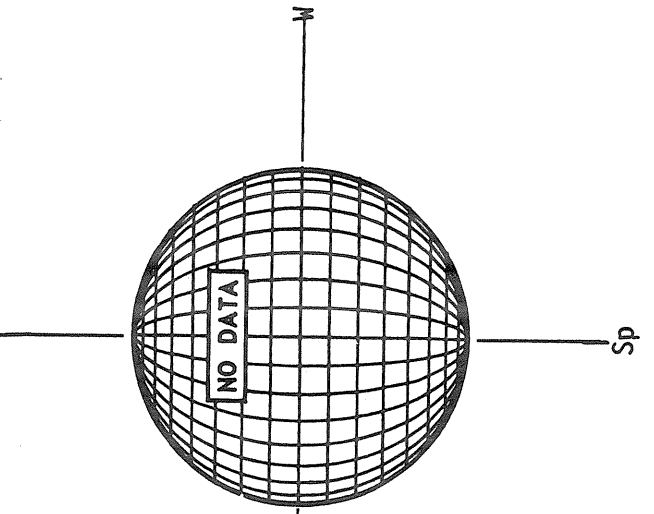
SACRAMENTO PEAK H-ALPHA



RAMEY SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)

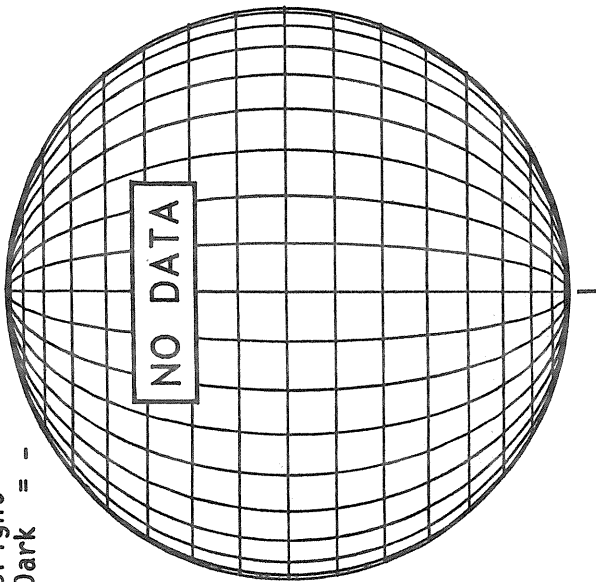


MARCH 18, 1986 (P=-24.81, B₀=-7.01, L₀= 252.67)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

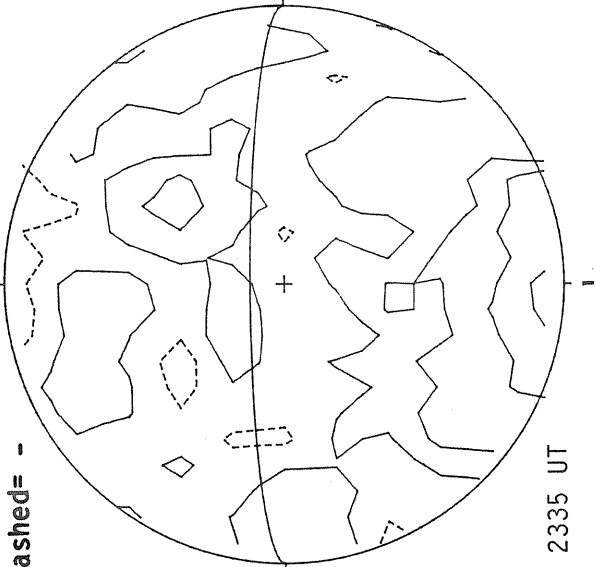


E-

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

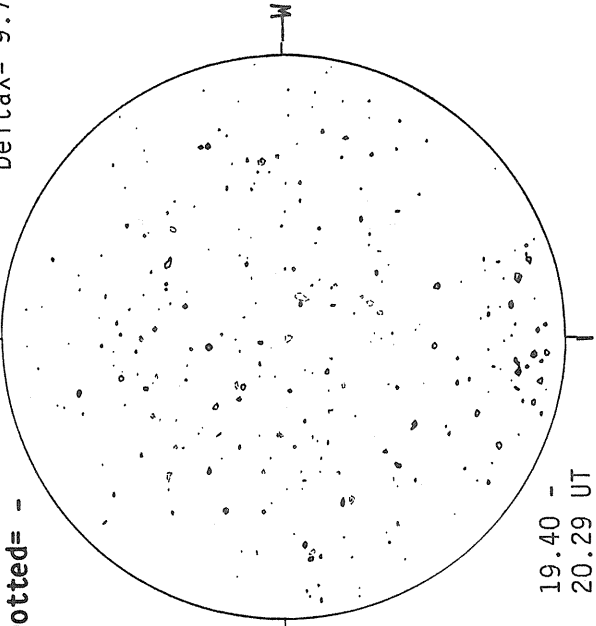


2335 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

Np

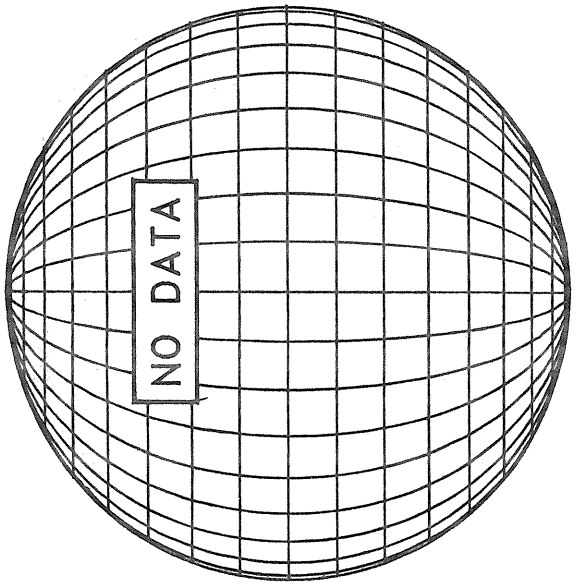


19.40 -
20.29 UT

Delta Y = 13.1
Delta X = 9.7

SACRAMENTO PEAK H-ALPHA

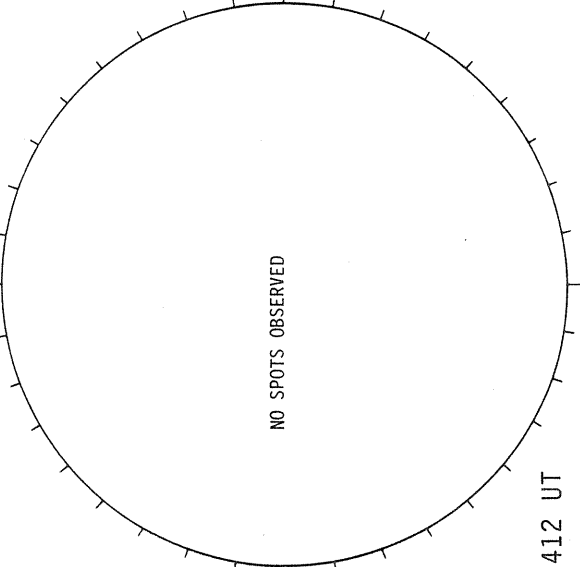
NO DATA



E-

RAMEY SUNSPOTS

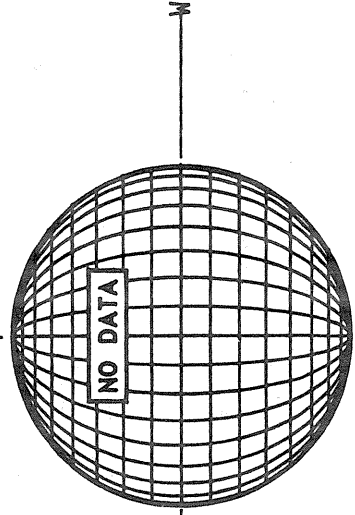
NO SPOTS OBSERVED



1412 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

NO DATA



Sp

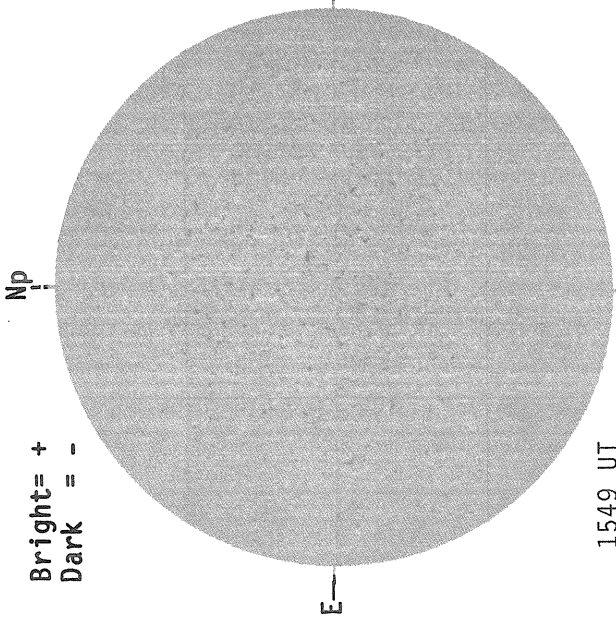
Sp

Sp

M A R C H 19, 1 9 8 6 (P=-24.95, B₀=-6.98, L₀= 239.48)

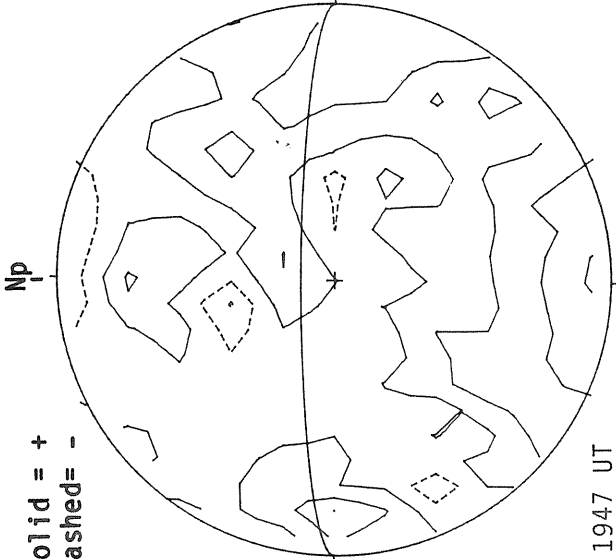
KITT PEAK MAGNETOGRAM

Bright= +
Dark = -



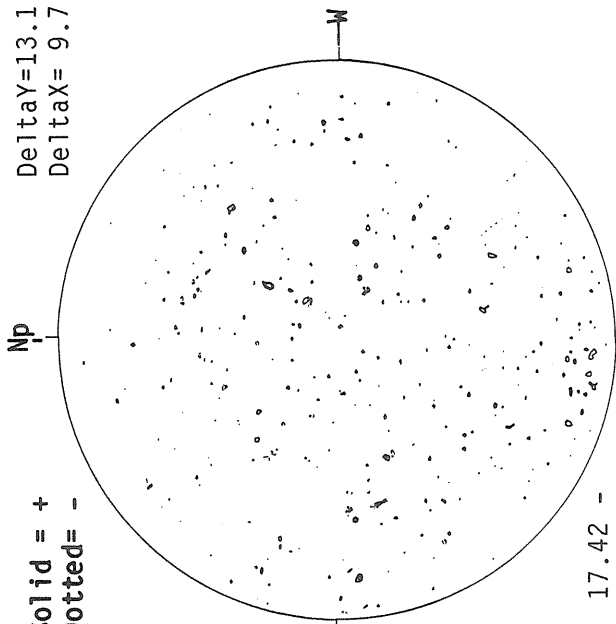
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

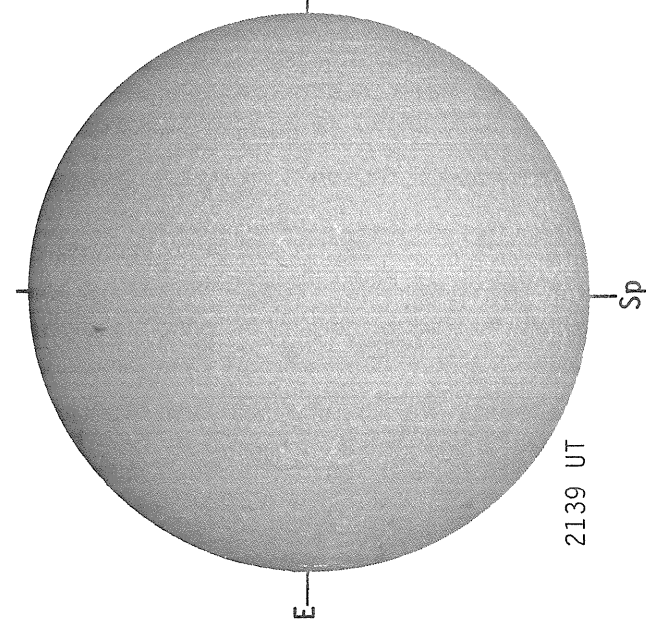


MT. WILSON MAGNETOGRAM

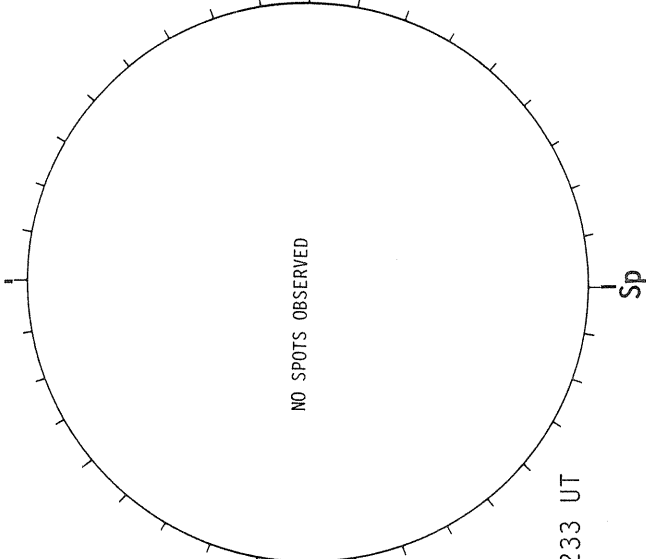
Solid = +
Dotted = -
Delta Y = 13.1
Delta X = 9.7



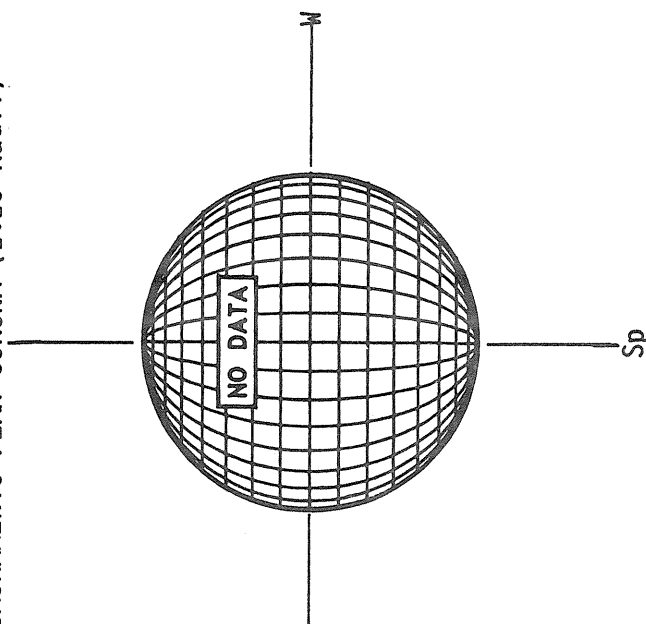
SACRAMENTO PEAK H-ALPHA



RAMEY SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 RadTi)

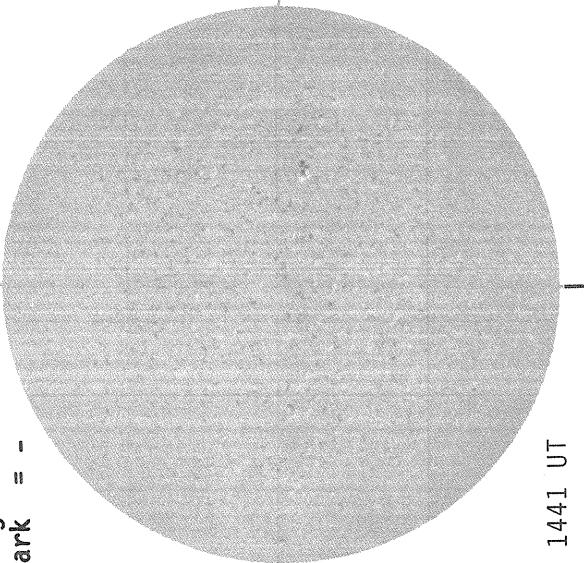


M A R C H 20, 1 9 8 6 (P=-25.08, B₀=-6.96, L₀= 226.30)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

Np

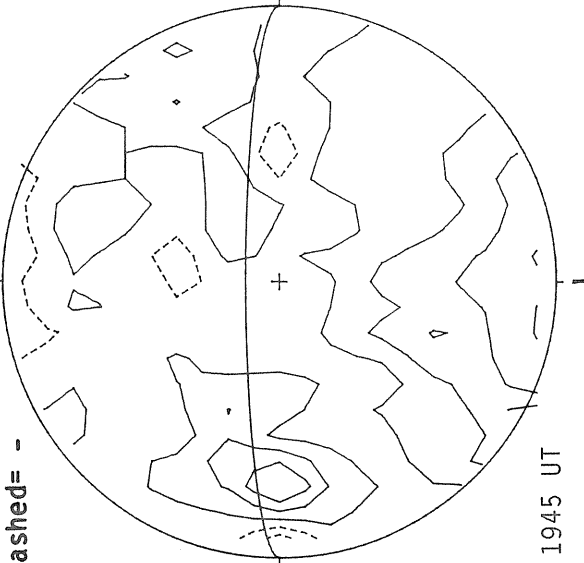


1441 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

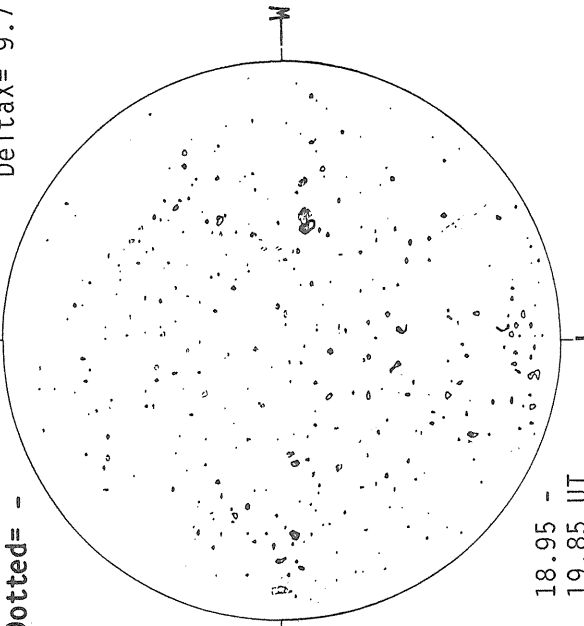


1945 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

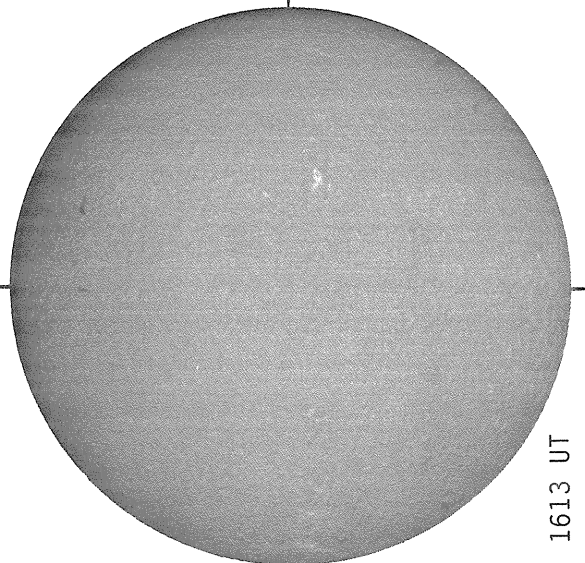
Np



18.95 -
19.85 UT

Delta Y = 13.0
Delta X = 9.7

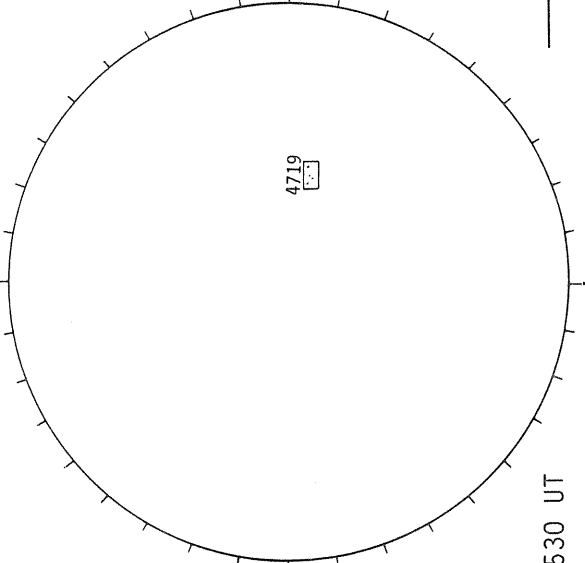
SACRAMENTO PEAK H-ALPHA



1613 UT

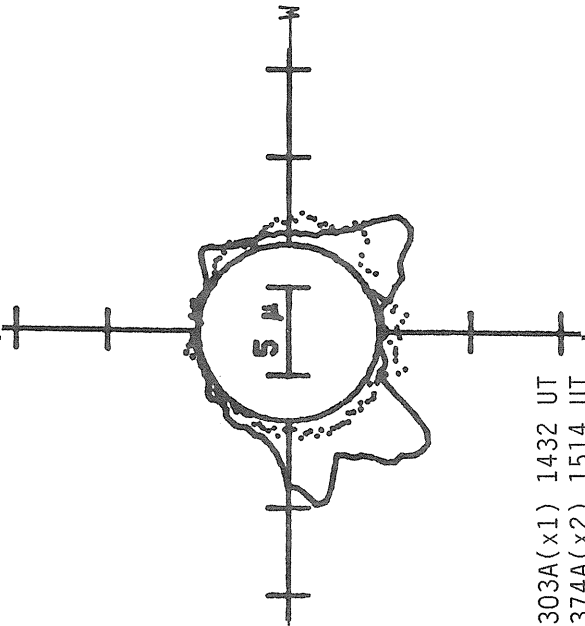
Sp

BOULDER SUNSPOTS



1530 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



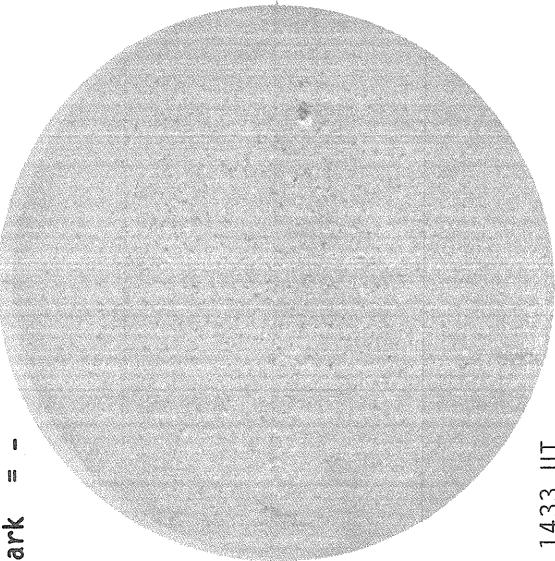
— 5303A(x1) 1432 UT
 6374A(x2) 1514 UT
 xxxxx 5694A(x6) 1455 UT Sp
 NO 5694A ACTIVITY TODAY

M A R C H 21, 1 9 8 6 (P=-25.20, B₀=-6.93, L₀= 213.12)

KITT PEAK MAGNETOGRAM

Np

Bright= +
Dark = -

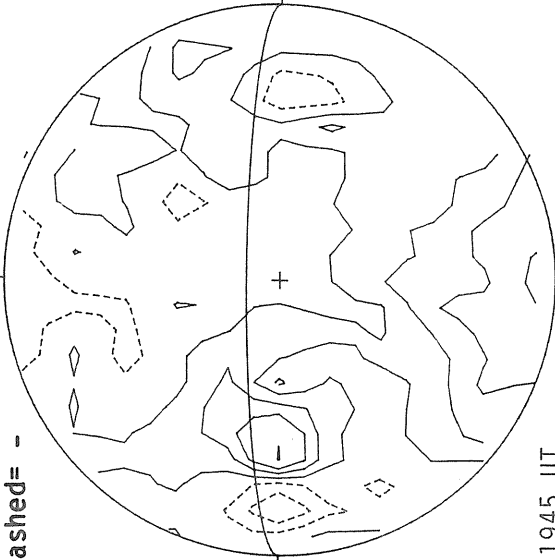


1433 UT

STANFORD MAGNETOGRAM

Np

Solid = +
Dashed = -



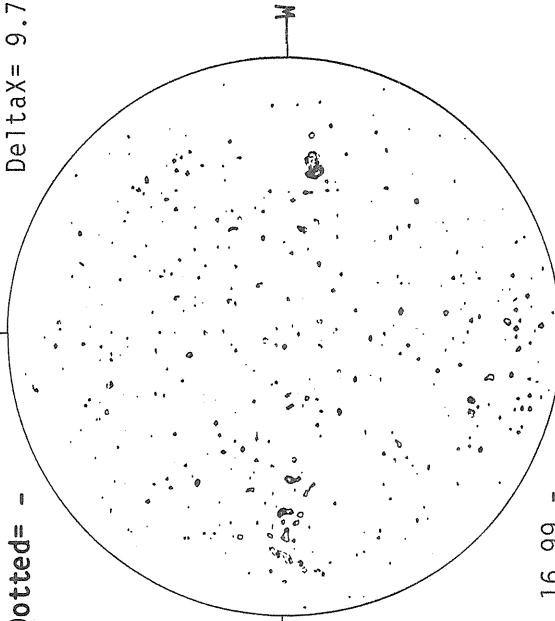
1945 UT

MT. WILSON MAGNETOGRAM

Np

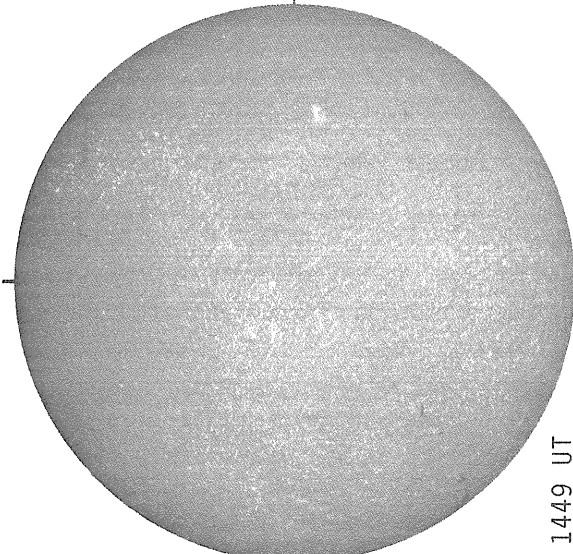
Solid = +
Dotted = -

DeltaY=13.0
DeltaX= 9.7



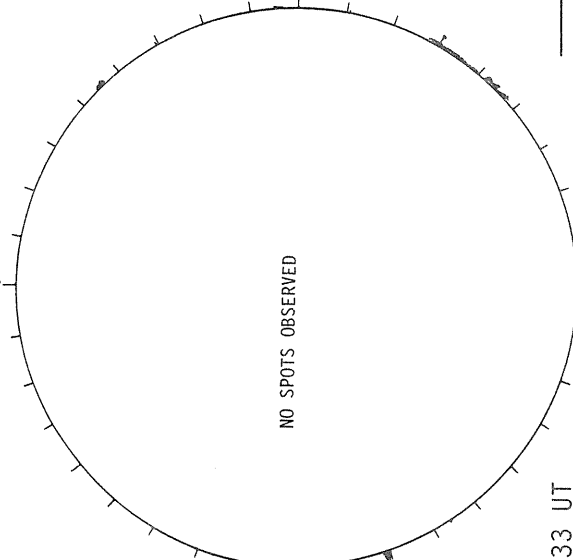
16.99 -
17.89 UT

SACRAMENTO PEAK H-ALPHA



1449 UT

BOULDER SUNSPOTS

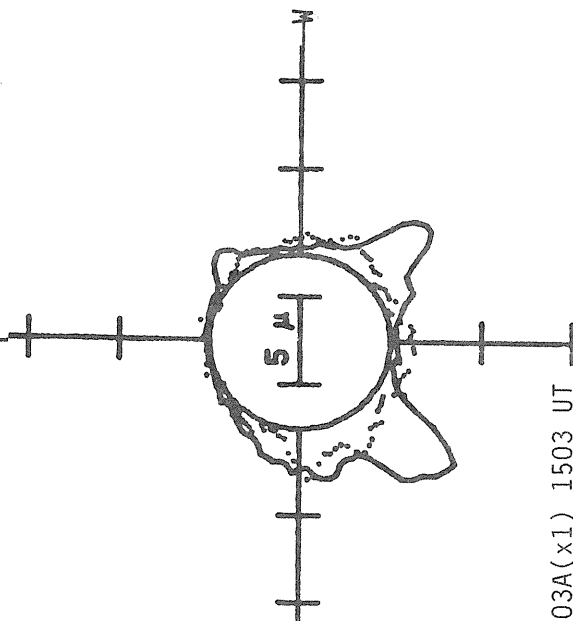


1533 UT

1855 UT BOUL Prom

Sp

SACRAMENTO PEAK CORONA (1.15 Radii)



— 5303A(x1) 1503 UT

.... 6374A(x2) 1541 UT

xxxx 5694A(x6) 1522 UT

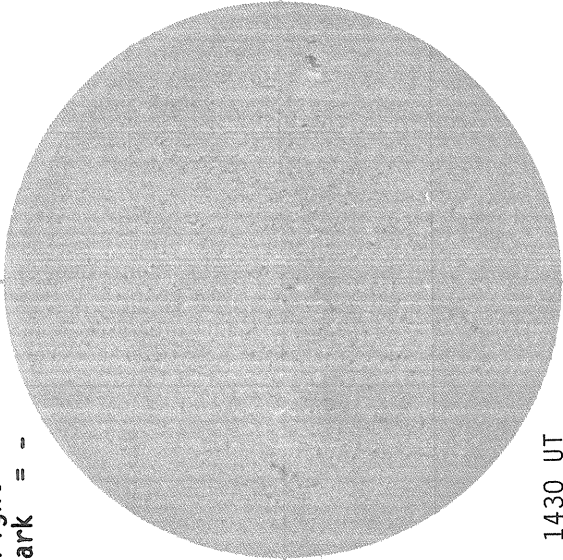
Sp
NO 5694A ACTIVITY TODAY

M A R C H 22, 1 9 8 6 (P=-23.52, B₀=-6.90, L₀= 199.93)

KITT PEAK MAGNETOGRAM

Np

Bright= +
Dark = -

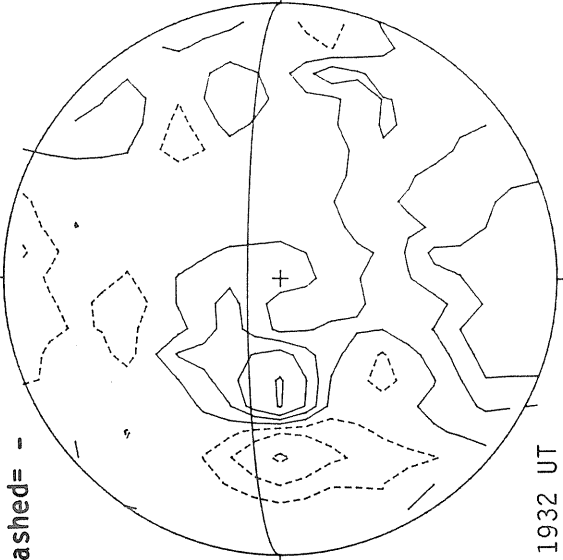


1430 UT

STANFORD MAGNETOGRAM

Np

Solid = +
Dashed = -

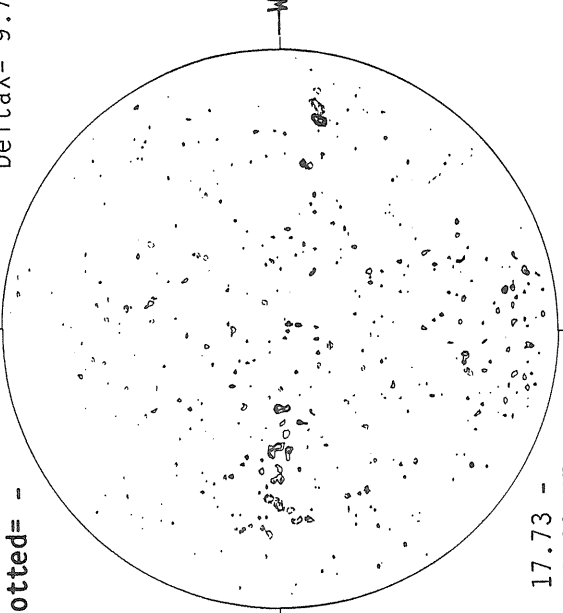


1932 UT

MT. WILSON MAGNETOGRAM

Np

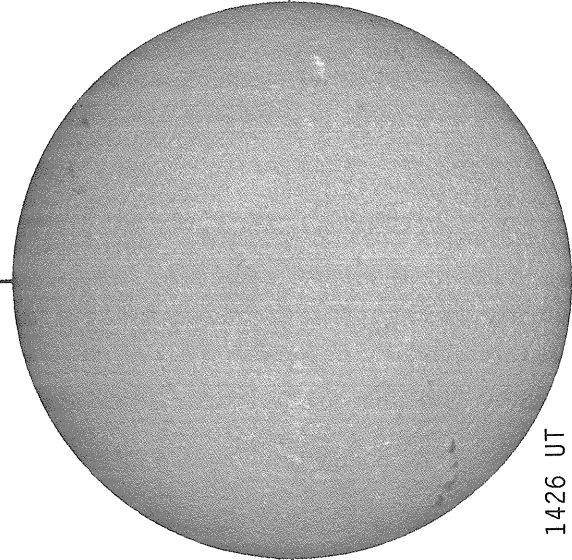
Solid = +
Dotted = -



17.73 -
18.63 UT

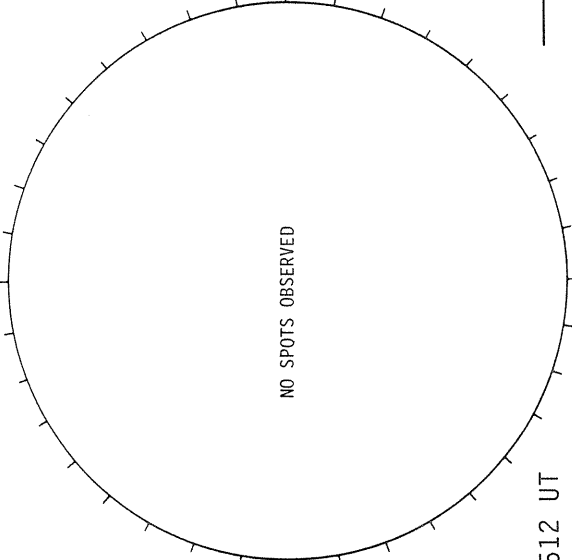
Delta Y = 13.0
Delta X = 9.7

SACRAMENTO PEAK H-ALPHA



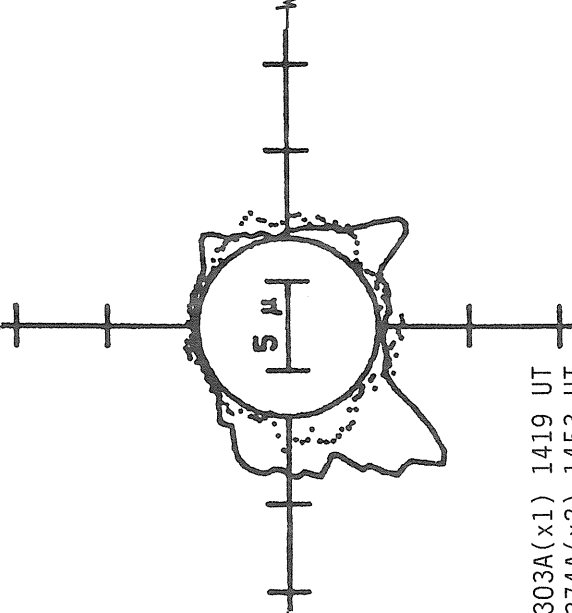
1426 UT

RAMEY SUNSPOTS



1512 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

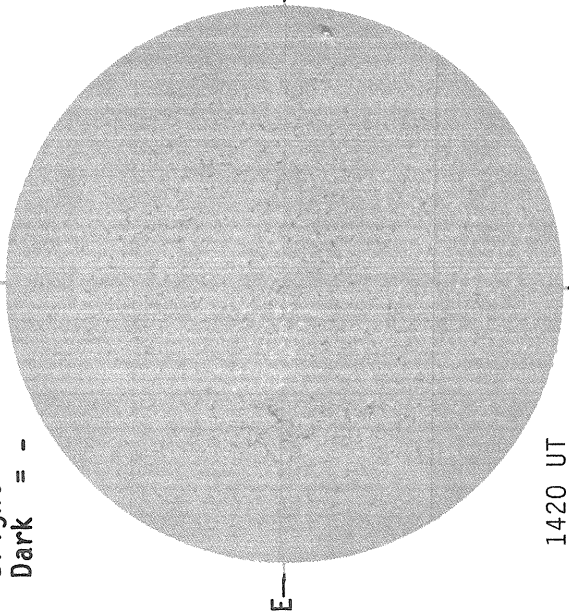


— 5303A(x1) 1419 UT
 6374A(x2) 1453 UT
 xxxxx 5694A(x6) 1437 UT Sp
 NO 5694A ACTIVITY TODAY

M A R C H 23, 1 9 8 6 (P=-25.43, B₀=-6.86, L₀= 186.75)

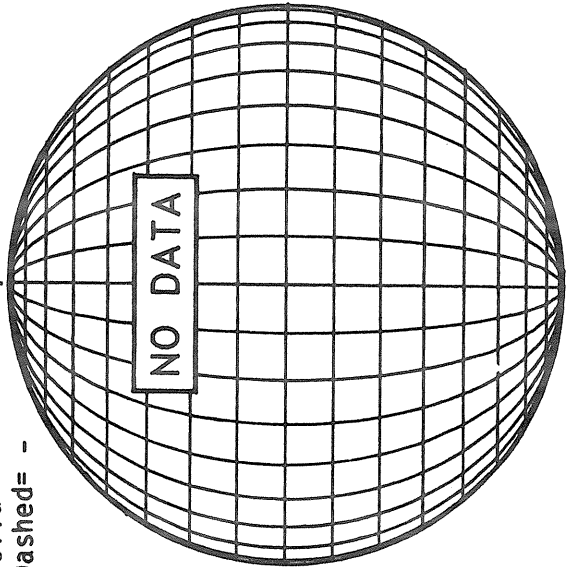
KITT PEAK MAGNETOGRAM

Bright= +
Dark = -



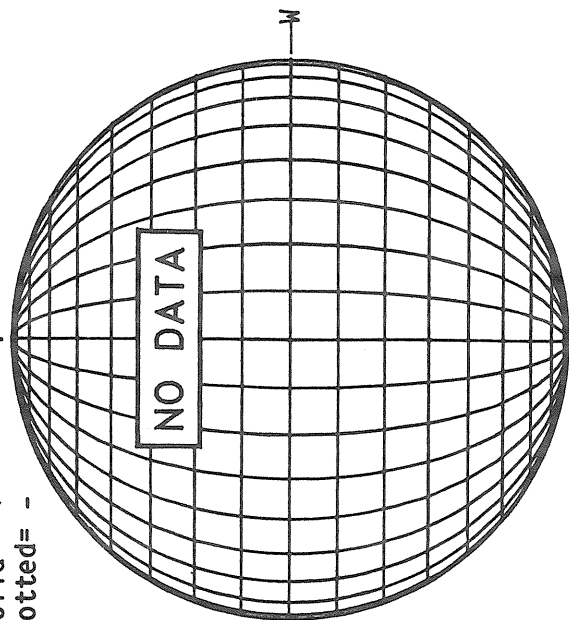
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

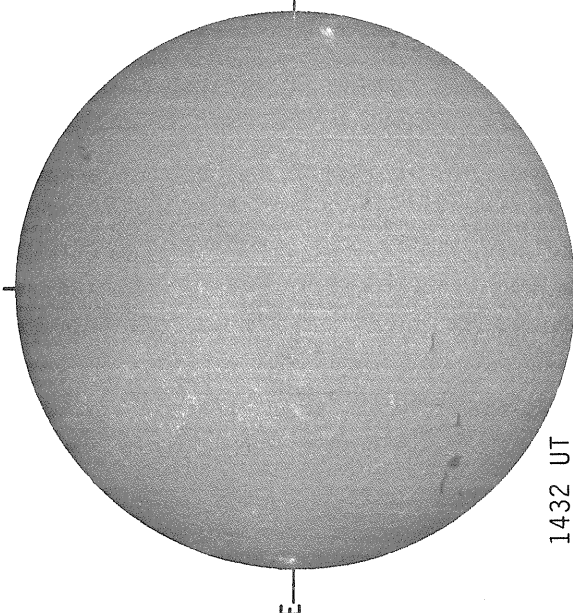


MT. WILSON MAGNETOGRAM

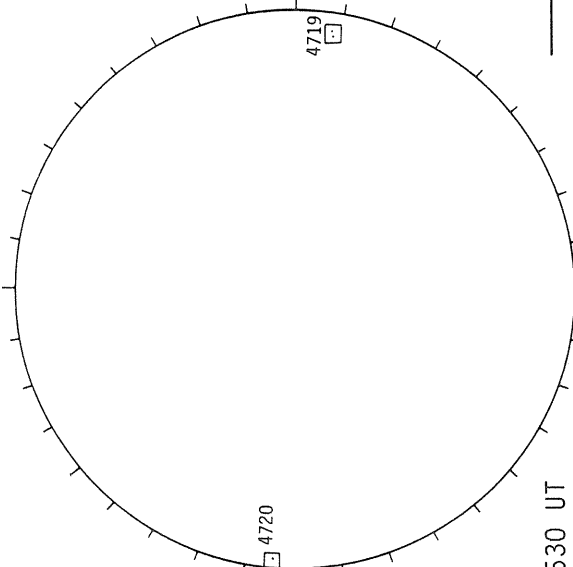
Solid = +
Dotted = -



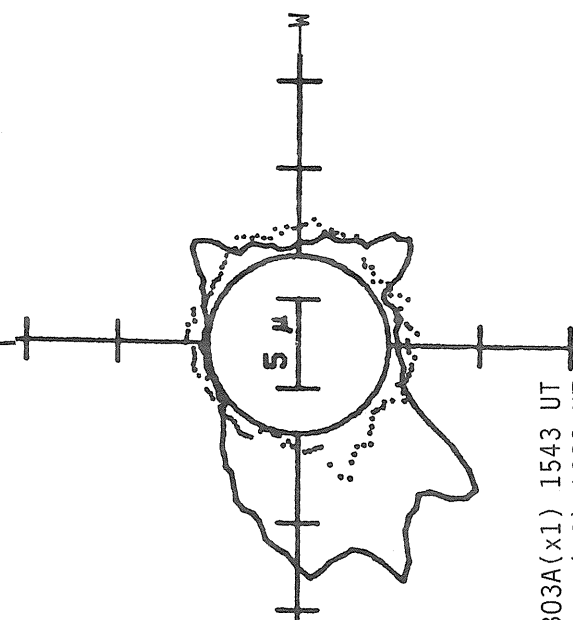
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)

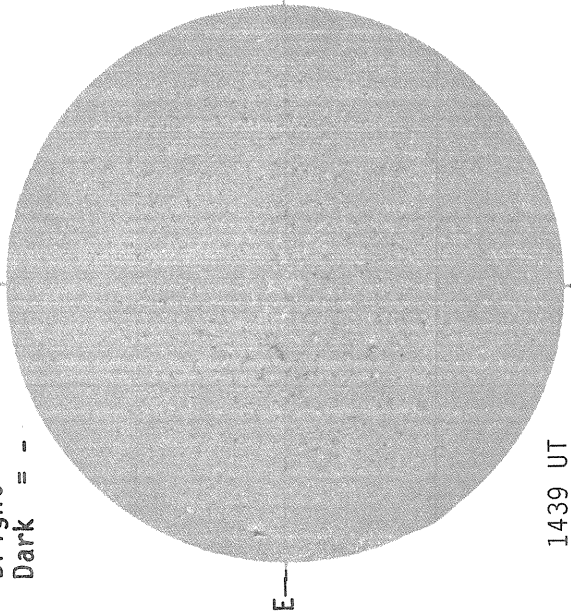


— 5303A(x1) 1543 UT
 6374A(x2) 1622 UT
 xxxxx 5694A(x6) 1609 UT Sp
 NO 5694A ACTIVITY TODAY

MARCH 24, 1986 (P=-25.53, B₀=-6.83, L₀=173.56)

KITT PEAK MAGNETOGRAM

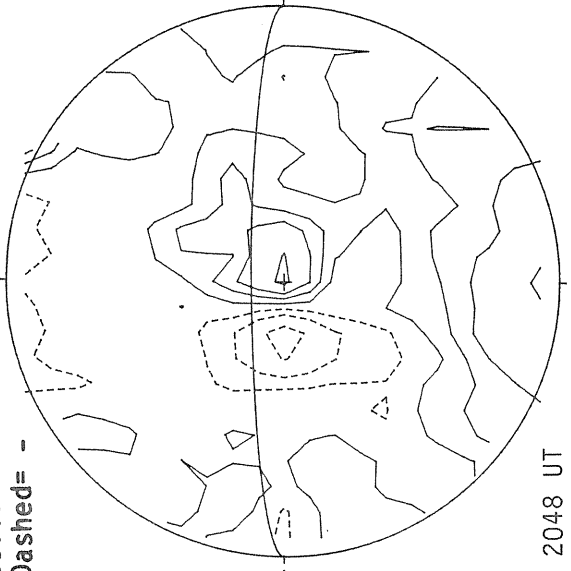
Bright = +
Dark = -



1439 UT

STANFORD MAGNETOGRAM

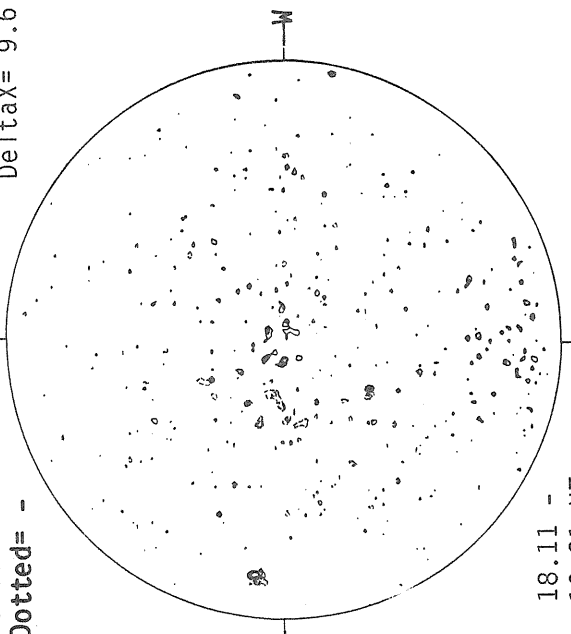
Solid = +
Dashed = -



2048 UT

MT. WILSON MAGNETOGRAM

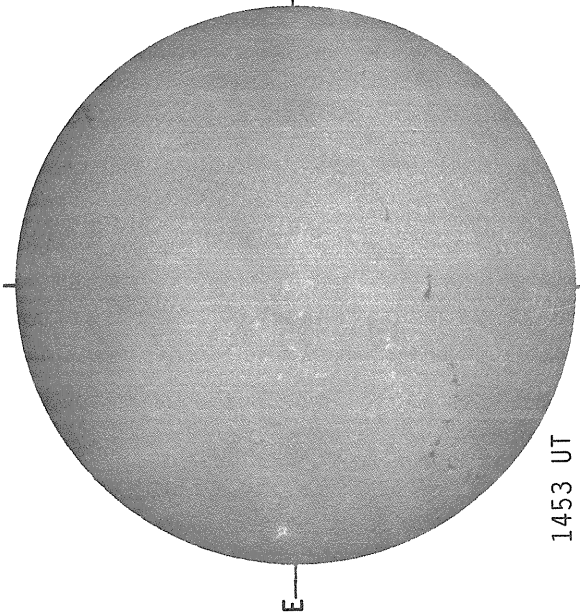
Solid = +
Dotted = -



18.11 -
19.01 UT

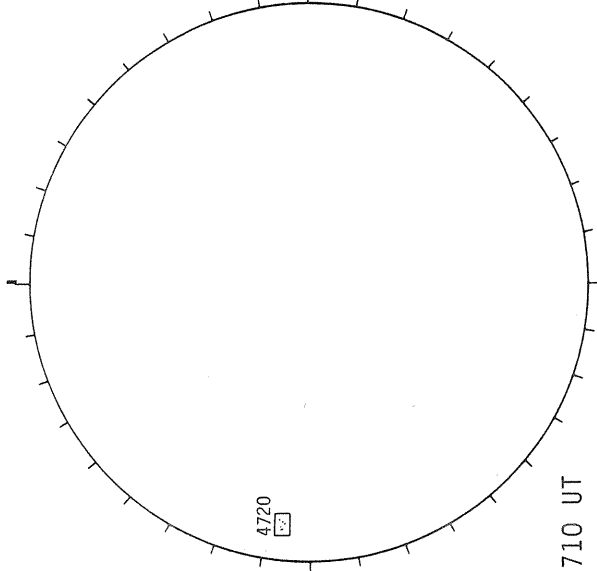
Delta Y = 12.9
Delta X = 9.6

SACRAMENTO PEAK H-ALPHA



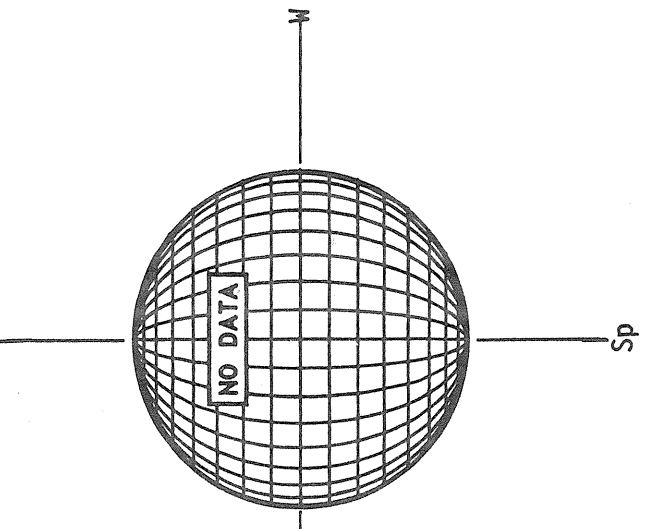
1453 UT

RAMEY SUNSPOTS



1710 UT

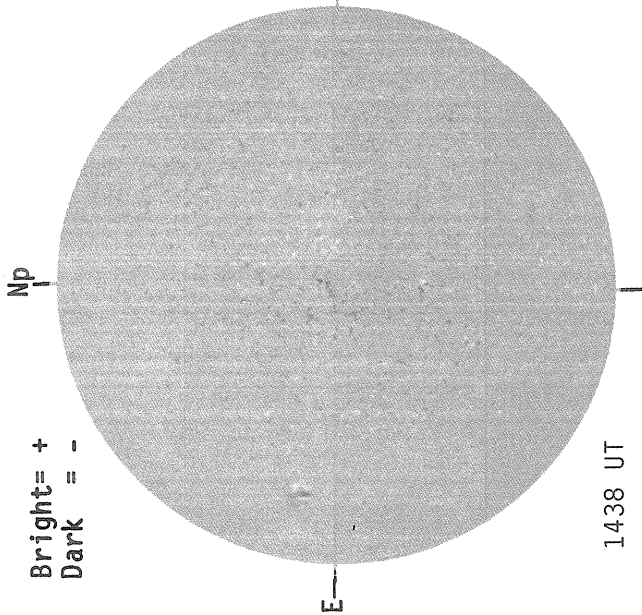
SACRAMENTO PEAK CORONA (1.15 Radii)



M A R C H 25, 1 9 8 6 (P=-25.63, B₀=-6.79, L₀ = 160.37)

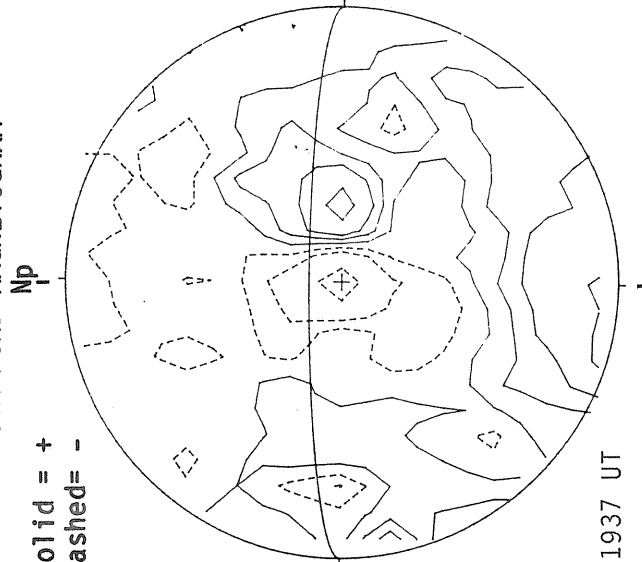
KITT PEAK MAGNETOGRAM

Bright= +
Dark = -



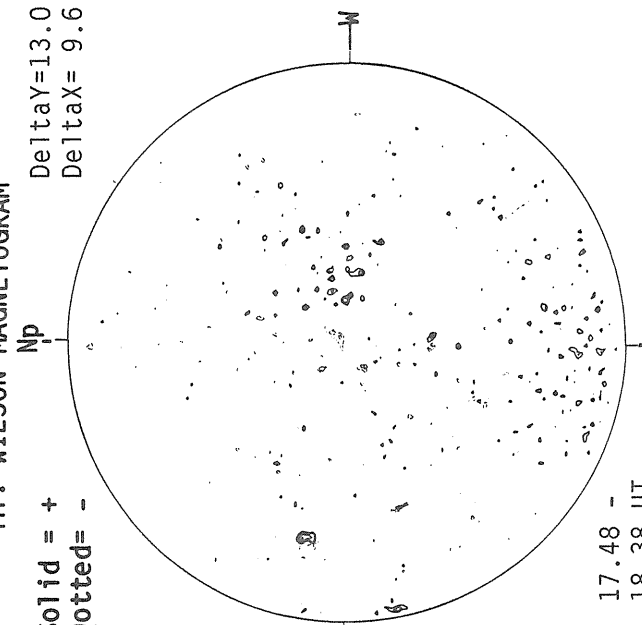
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

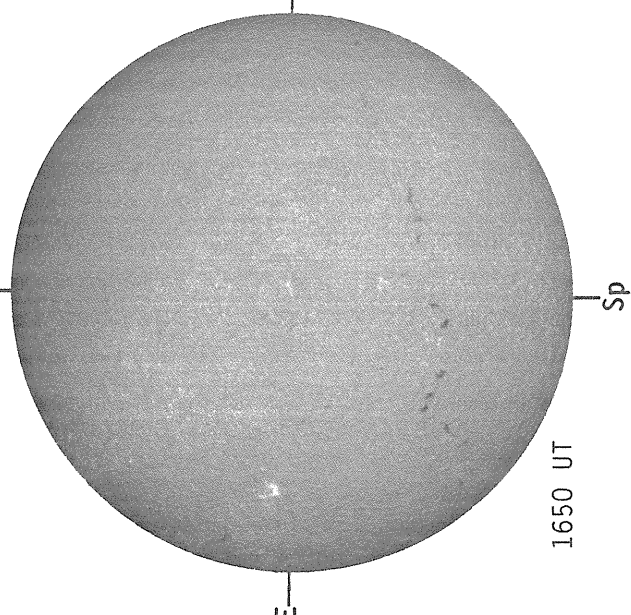


MT. WILSON MAGNETOGRAM

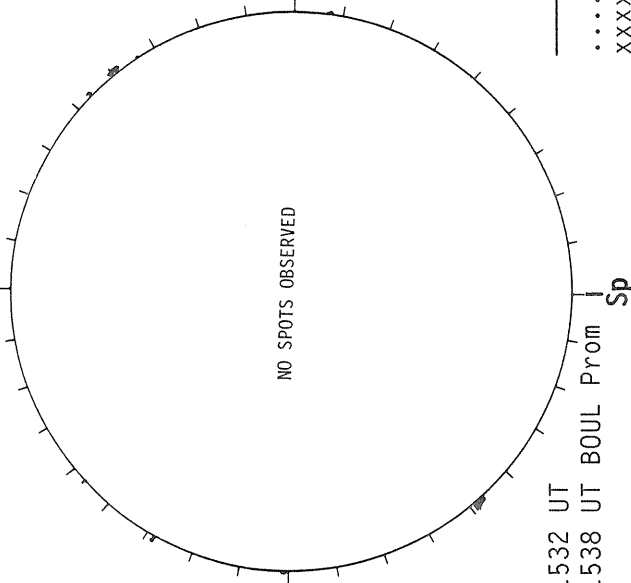
Solid = +
Dotted = -



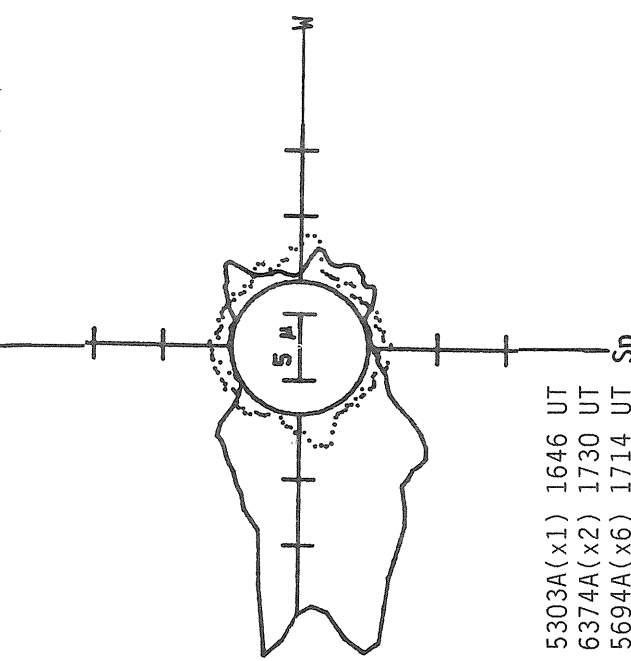
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)

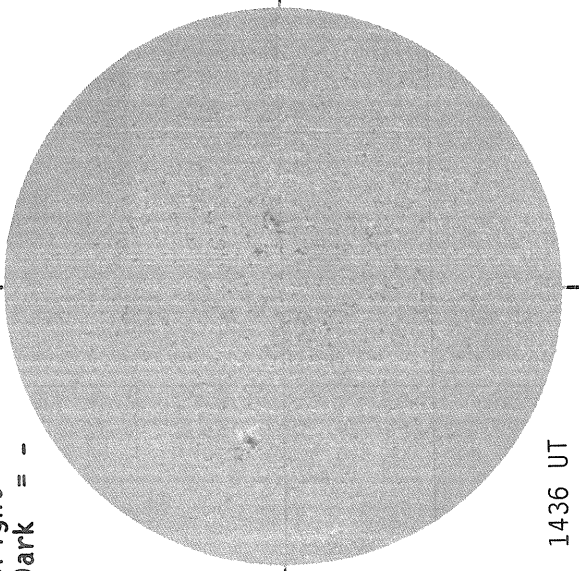


— 5303A(x1) 1646 UT
 6374A(x2) 1730 UT
 xxxxx 5694A(x6) 1714 UT
 NO 5694A ACTIVITY TODAY

KITT PEAK MAGNETOGRAM

Np

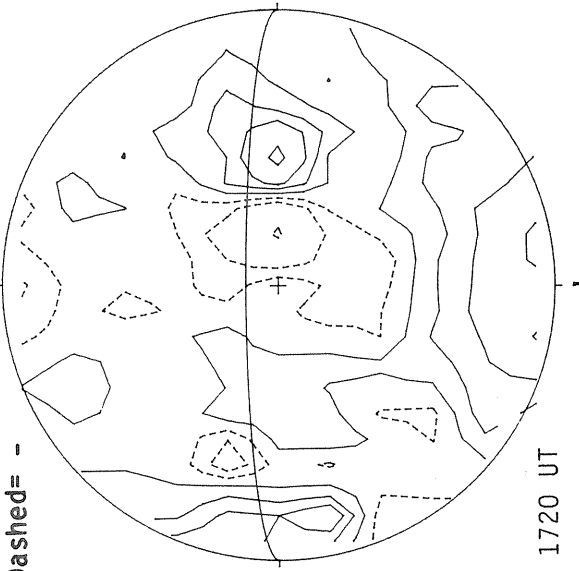
Bright= +
Dark = -



STANFORD MAGNETOGRAM

Np

Solid = +
Dashed = -

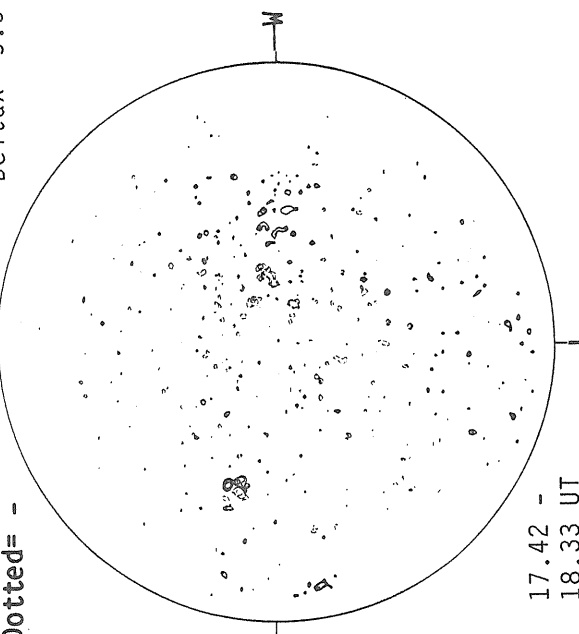


MT. WILSON MAGNETOGRAM

Np

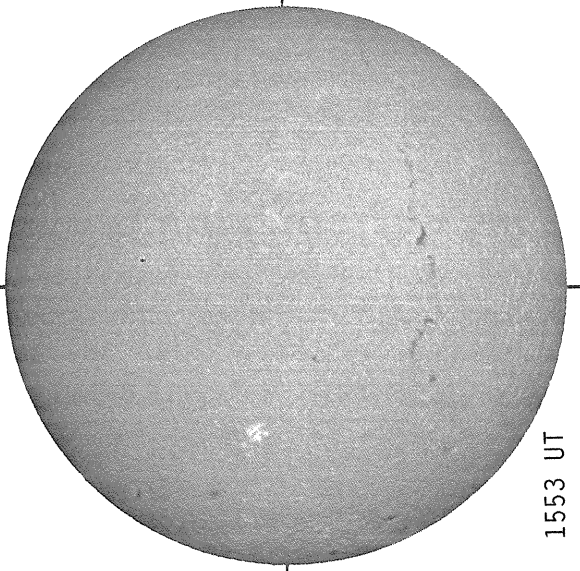
Solid = +
Dotted = -

DeltaY=12.9
DeltaX= 9.6



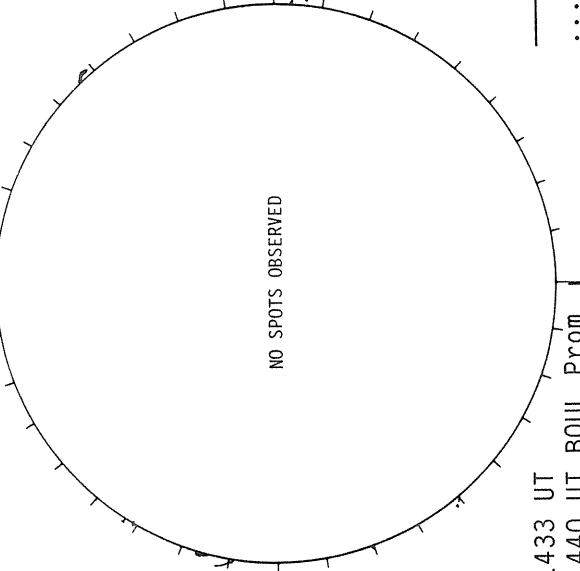
SACRAMENTO PEAK H-ALPHA

Np



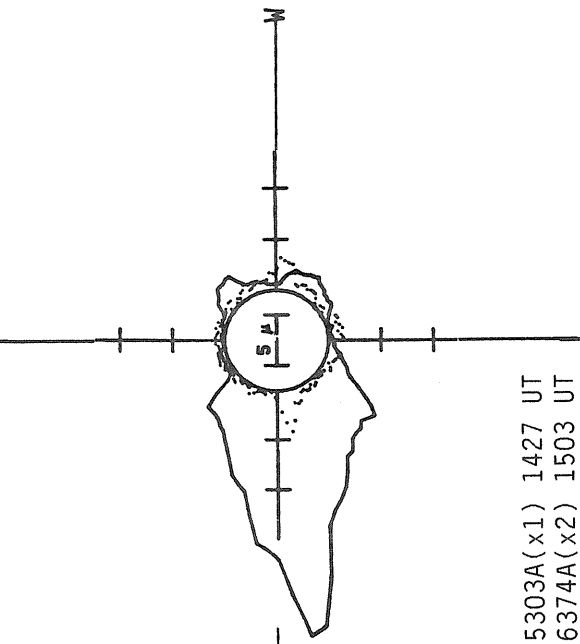
BOULDER SUNSPOTS

Np



SACRAMENTO PEAK CORONA (1.15 Radii)

Np



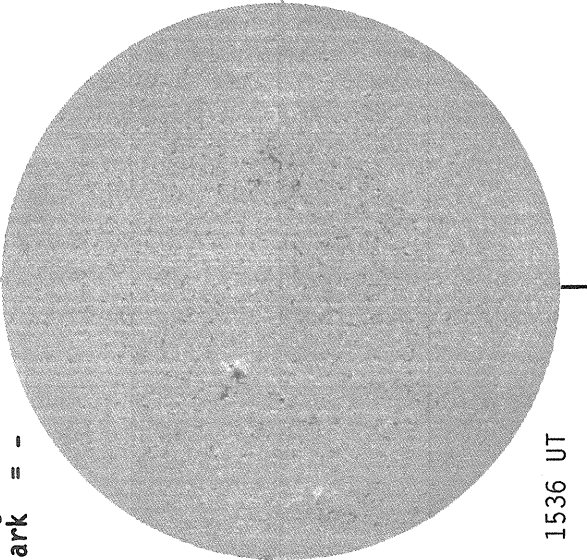
— 5303A(x1) 1427 UT
 6374A(x2) 1503 UT
 xxxxx 5694A(x6) 1454 UT Sp
 NO 5694A ACTIVITY TODAY

MARCH 27, 1986 (P=-25.80, B₀=-6.71, L₀=134.00)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

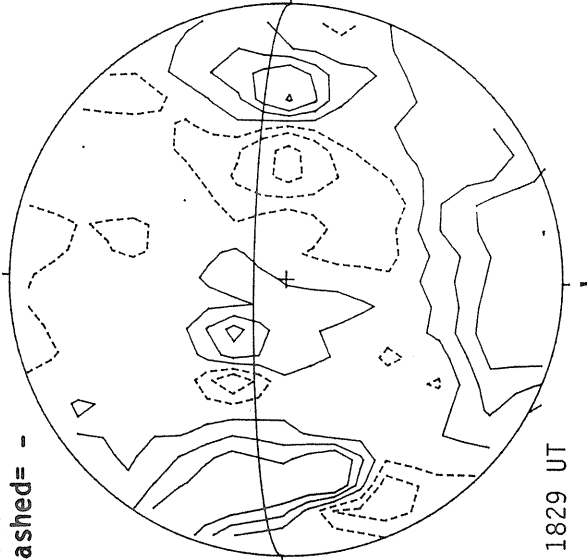


1536 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np



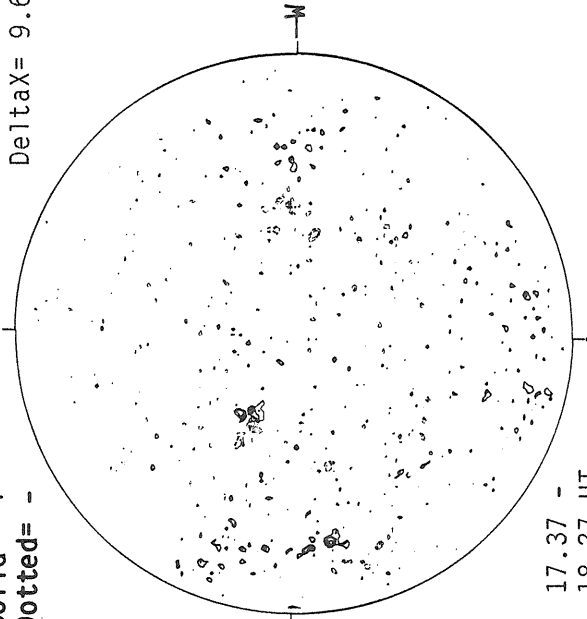
1829 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

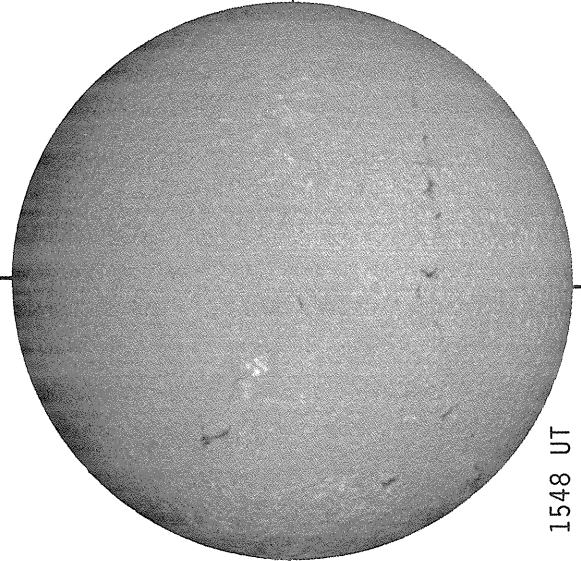
Np

Delta Y = 12.9
Delta X = 9.6



17.37 -
18.27 UT

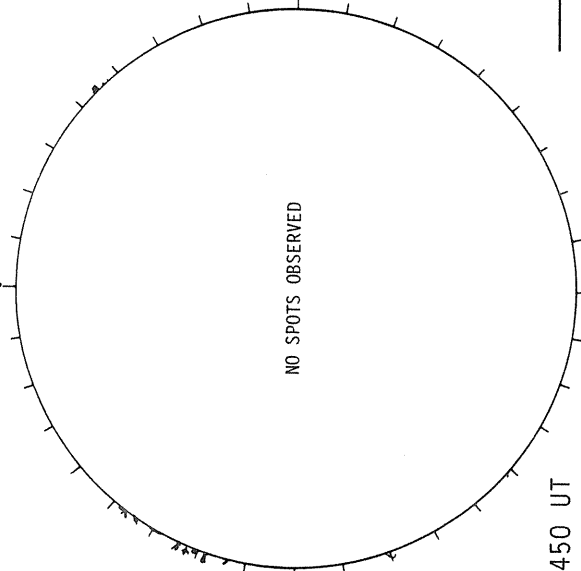
SACRAMENTO PEAK H-ALPHA



1548 UT

Sp

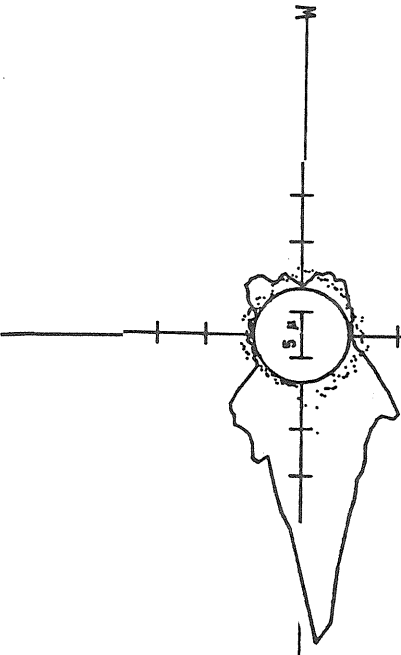
BOULDER SUNSPOTS



1450 UT
1445 UT BOUL Prom

Sp

SACRAMENTO PEAK CORONA (1.15 Radii)



— 5303A(x1) 1425 UT
..... 6374A(x2) 1459 UT
xxxxx 5694A(x6) 1450 UT
NO 5694A ACTIVITY TODAY

Sp

E

E

W

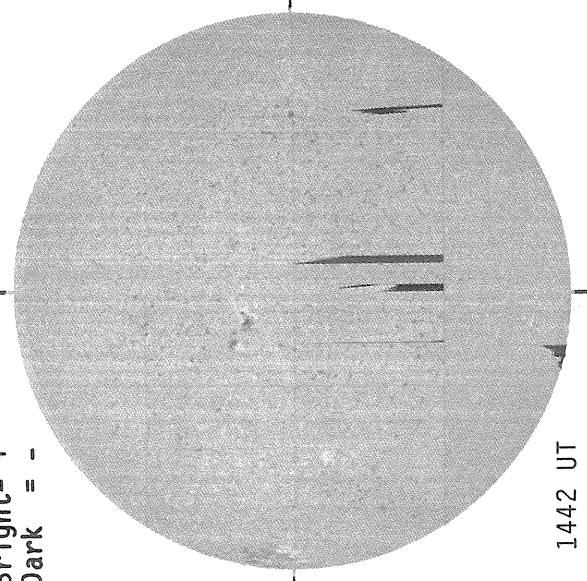
W

M A R C H 28, 1 9 8 6 (P=-25.87, B₀=-6.66, L₀= 120.81)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

Np

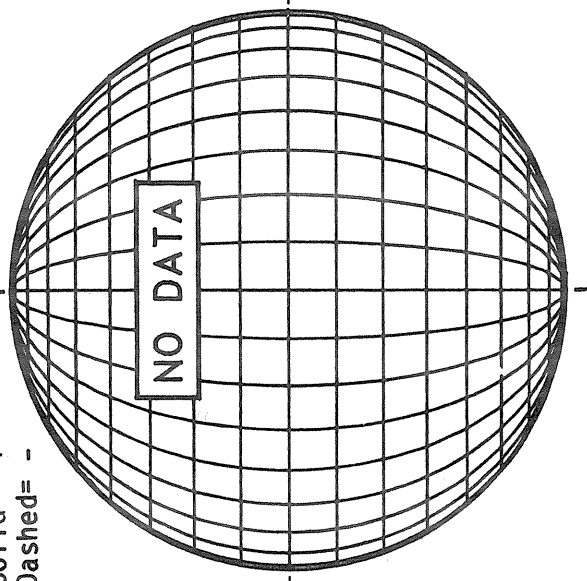


1442 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

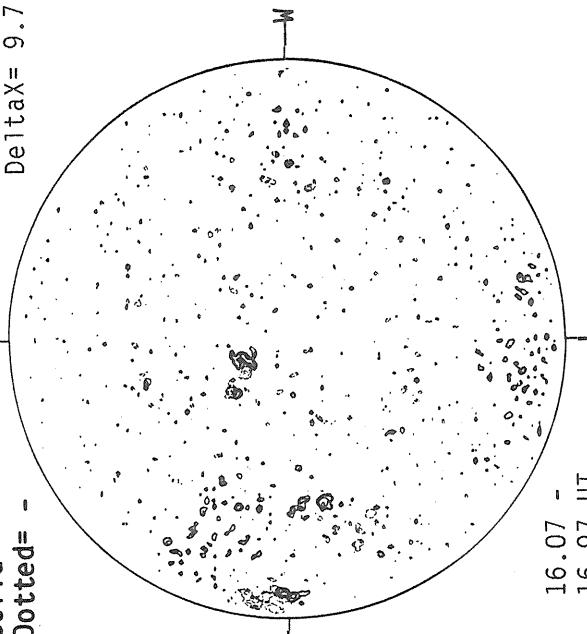


16.07 -
16.97 UT

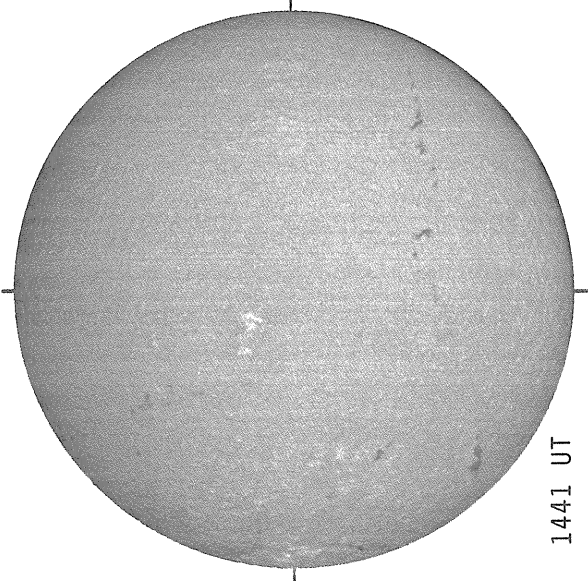
MT. WILSON MAGNETOGRAM

DeltaY=12.9
DeltaX= 9.7

Np

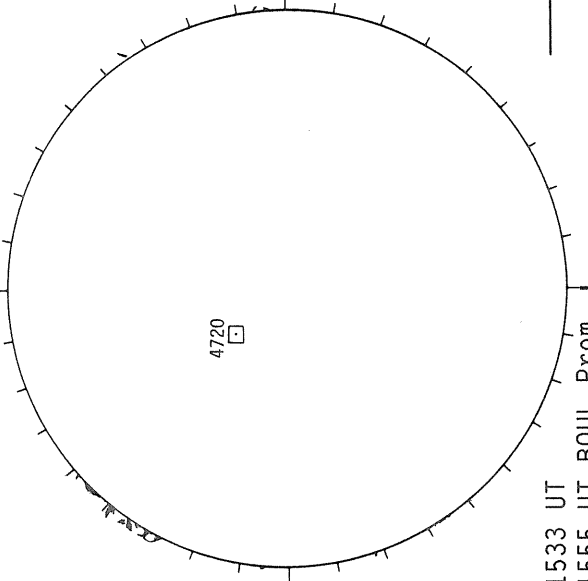


SACRAMENTO PEAK H-ALPHA



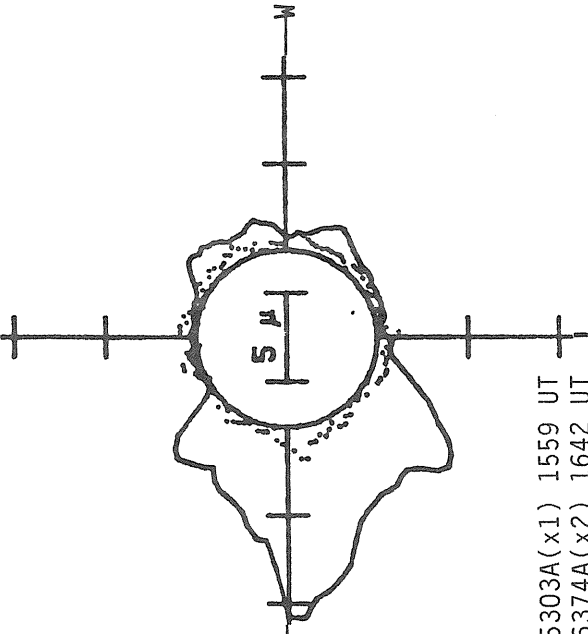
1441 UT

BOULDER SUNSPOTS



1533 UT
1555 UT BOUL Prom Sp

SACRAMENTO PEAK CORONA (1.15 Radii)



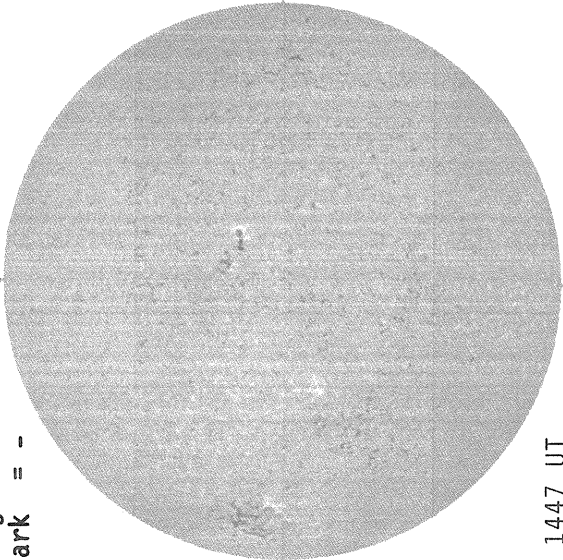
— 5303A(x1) 1559 UT
... 6374A(x2) 1642 UT
xxxx 5694A(x6) 1626 UT
NO 5694A ACTIVITY TODAY

M A R C H 29, 1 9 8 6 (P=-25.94, B₀=-6.62, L₀= 107.62)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

Np

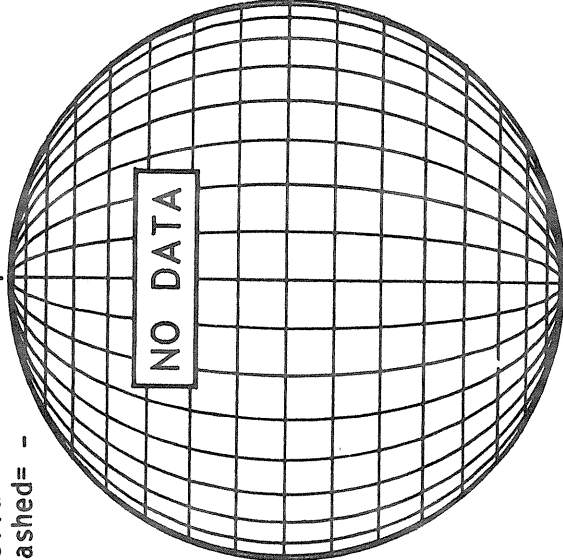


1447 UT

STANFORD MAGNETOGRAM

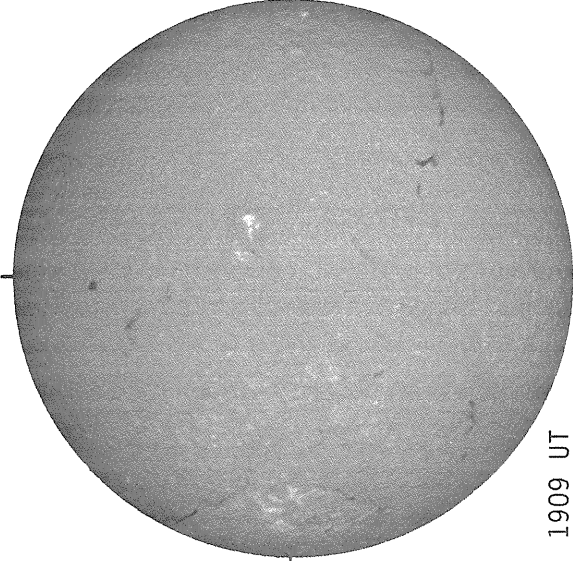
Solid = +
Dashed = -

Np



NO DATA

SACRAMENTO PEAK H-ALPHA



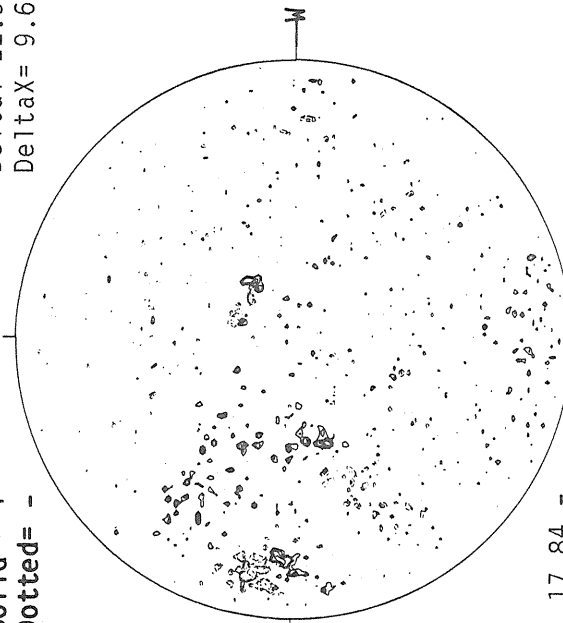
1909 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

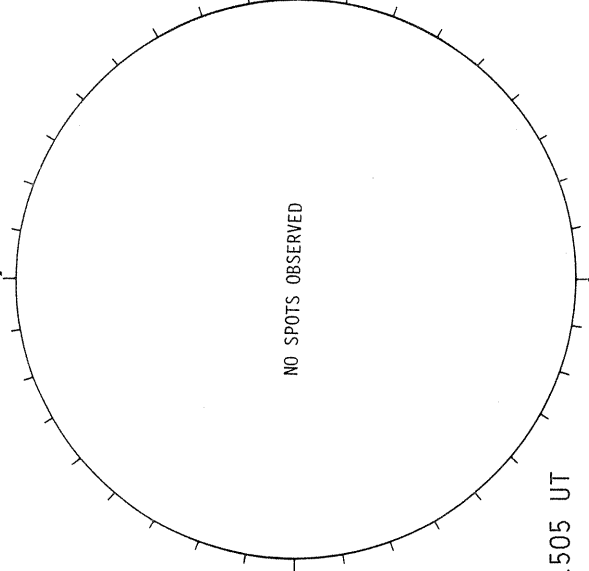
Np

DeltaY=12.9
DeltaX= 9.6



17.84 -
18.75 UT

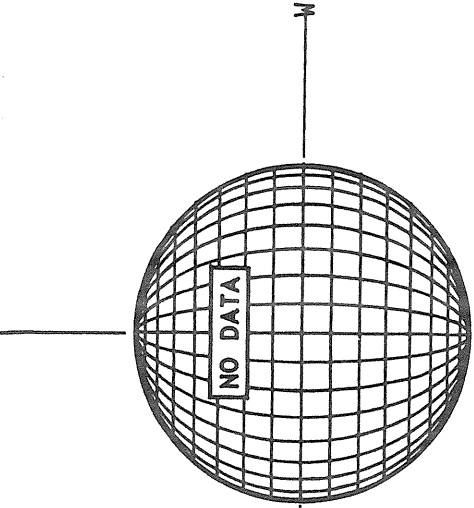
BOULDER SUNSPOTS



NO SPOTS OBSERVED

1505 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



NO DATA

Sp

Sp

Sp

E

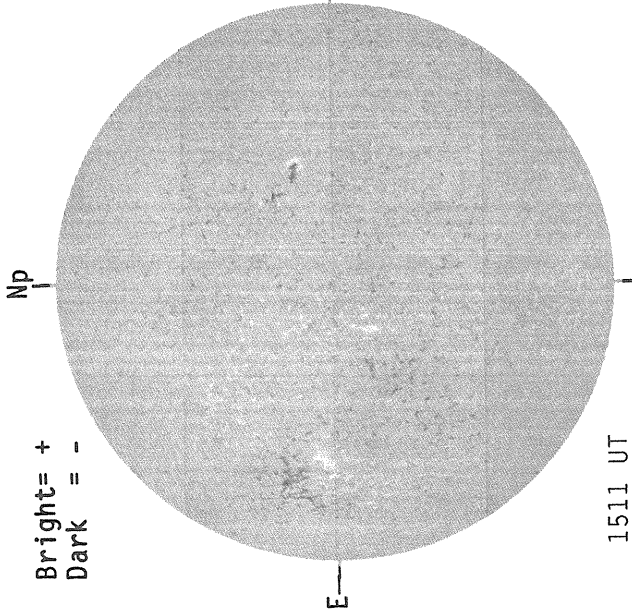
E

M

MARCH 30, 1986 (P=-26.00, B₀=-6.57, L₀= 94.43)

KITT PEAK MAGNETOGRAM

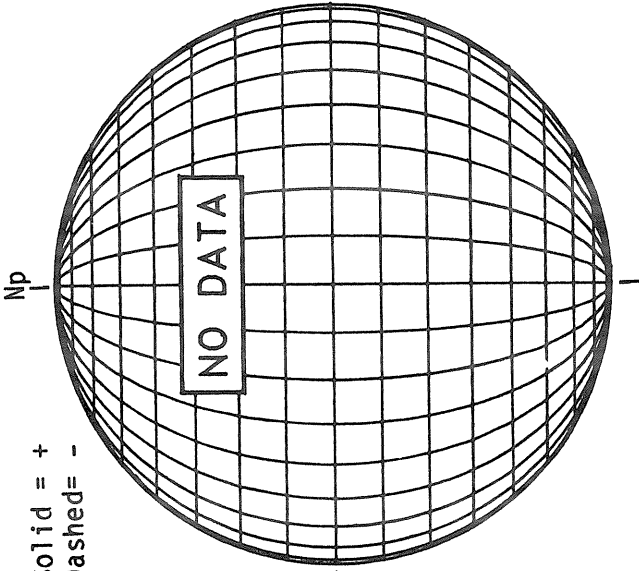
Bright= +
Dark = -



1511 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

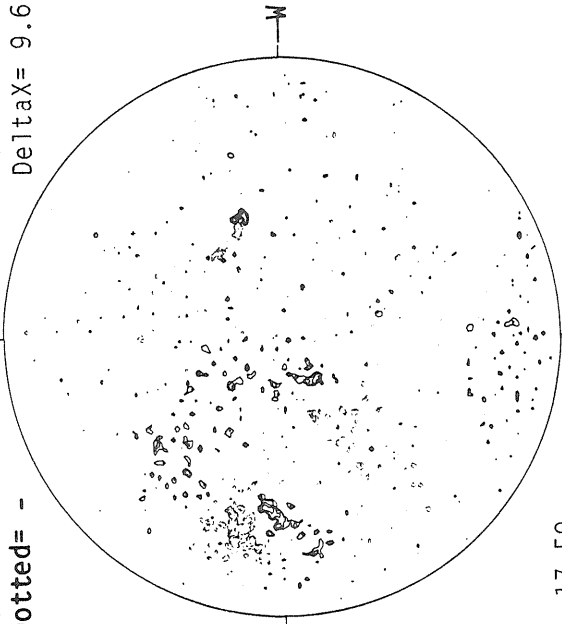


17.59 -
18.49 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

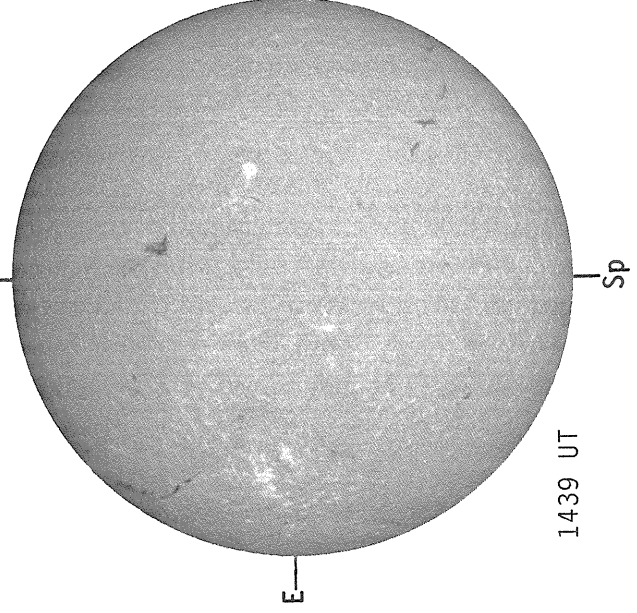
Delta Y = 12.9
Delta X = 9.6



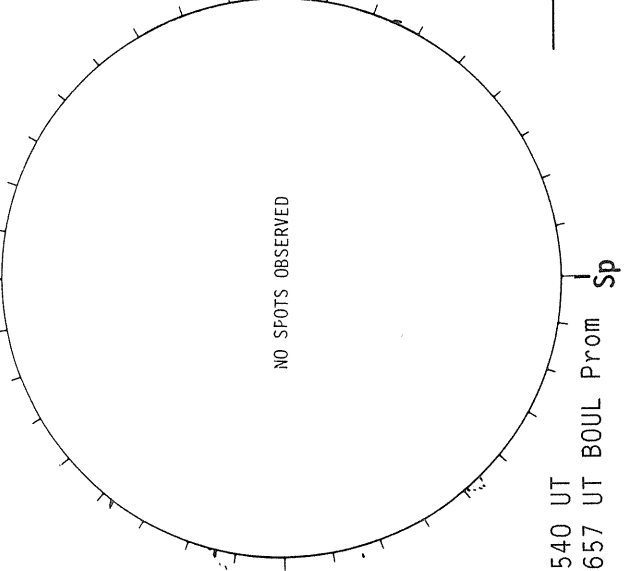
SACRAMENTO PEAK CORONA (1.15 Radii)

BOULDER SUNSPOTS

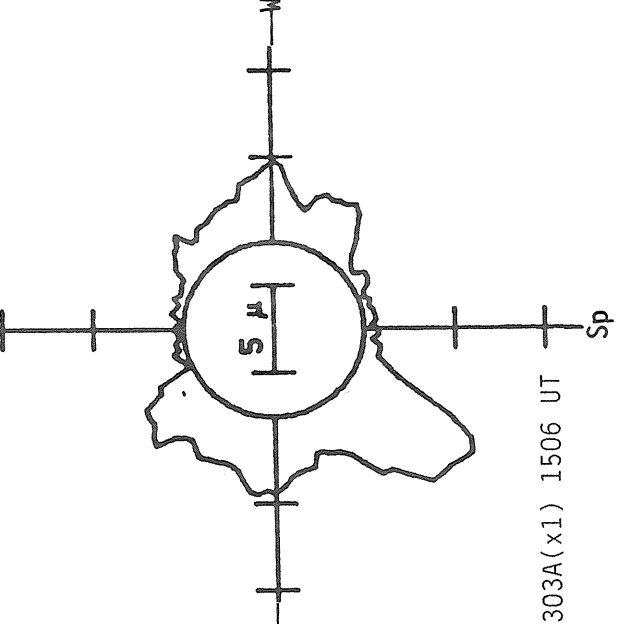
SACRAMENTO PEAK H-ALPHA



1439 UT



1540 UT
1657 UT BOUL Prom

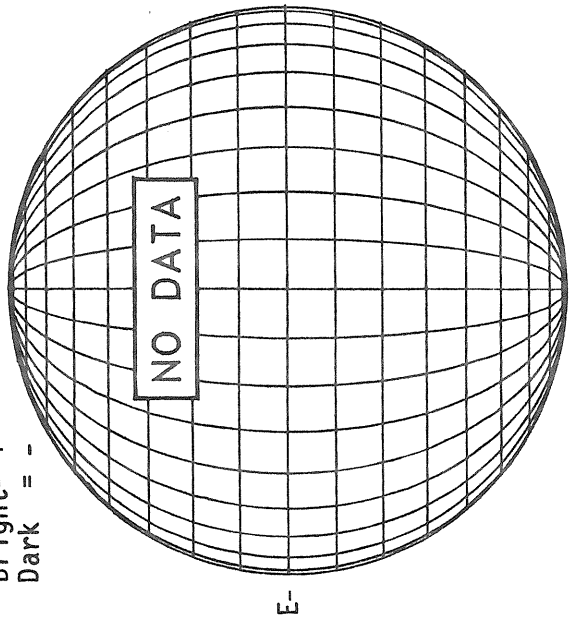


5303A(x1) 1506 UT

M A R C H 31, 1 9 8 6 (P=-26.05, B₀=-6.52, L₀= 81.23)

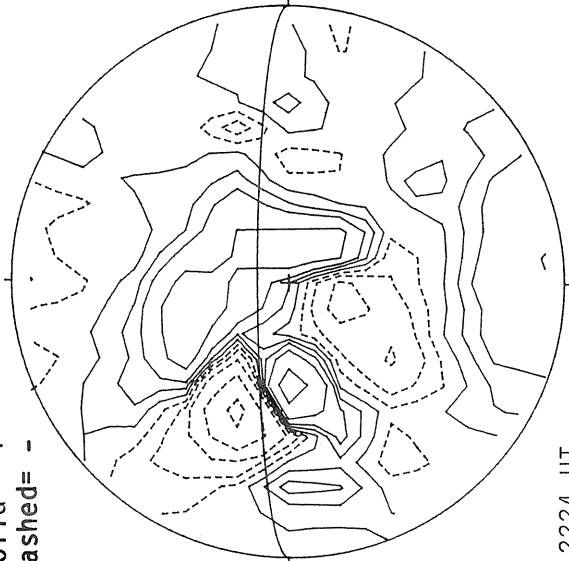
KITT PEAK MAGNETOGRAM

Bright= +
Dark = -



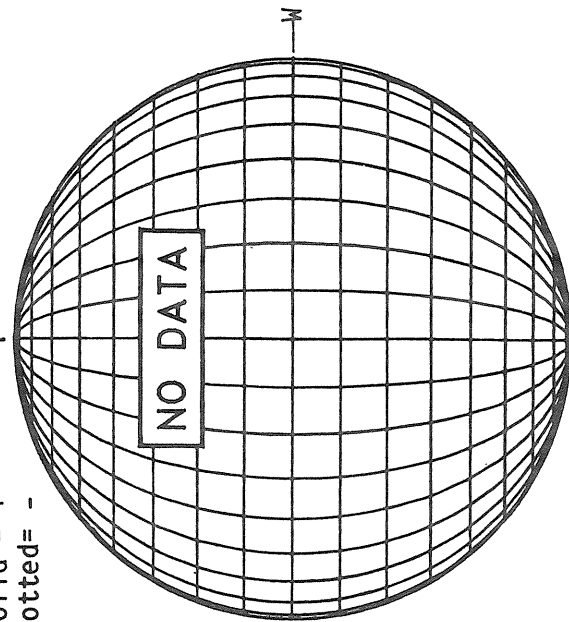
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

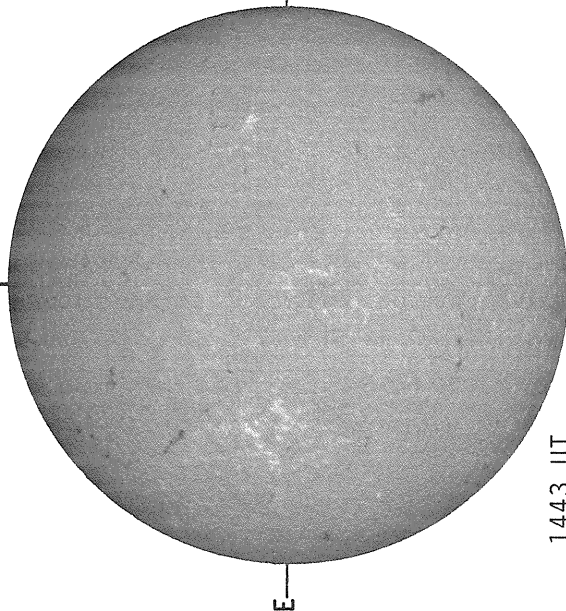


MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

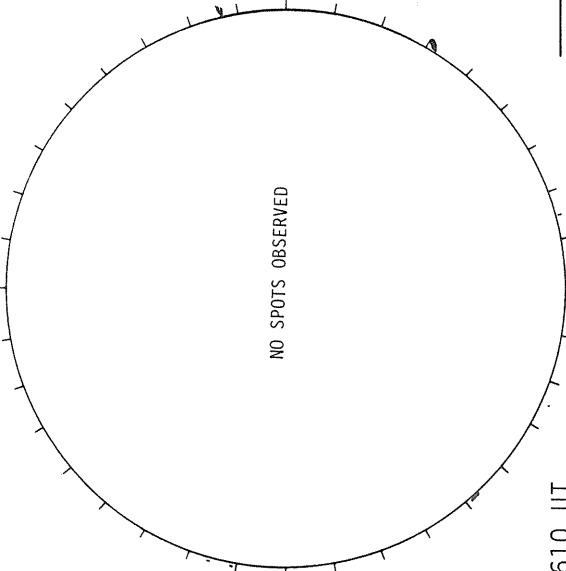


SACRAMENTO PEAK H-ALPHA



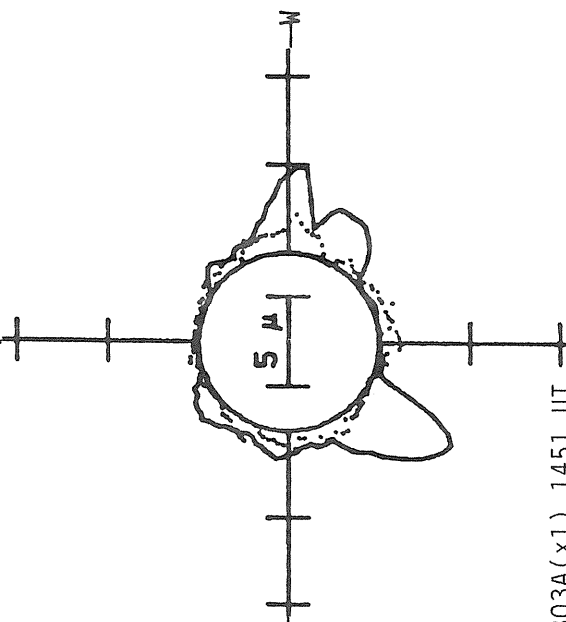
1443 UT

BOULDER SUNSPOTS



1610 UT
2035 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)



— 5303A(x1) 1451 UT
 6374A(x2) 1531 UT
 xxxxx 5694A(x6) 1517 UT
 NO 5694A ACTIVITY TODAY

Sp
Sp

SUNSPOT GROUPS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MARCH 1986

NOAA/ USAF Group	Mt Wilson Group	Sta	Mo	Day	Observation Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
4718		LEAR	03	02	0150	N04	W01	03	2.0		B	BXO	10	4	2	2
4718	24296	MWIL	03	02	1500	N03	W07	03	2.1	4	(B)					
4718		HOLL	03	02	1615	N03	W08	03	2.1		B	DSO	40	3	4	3
4718		LEAR	03	03	0025	N04	W13	03	2.0		B	CSO	20	4	3	2
4718		BOUL	03	03	1515	N03	W22	03	2.0		A	BXO		2	2	3
4718	24296	MWIL	03	03	1530	N04	W21	03	2.1	3	(B)					
4718		HOLL	03	03	1555	N03	W21	03	2.1		B	CSO	20	2	2	3
4718		LEAR	03	04	0005	N04	W28	03	1.9		A	AXX	10	1	1	3
4717	24295	MWIL	02	28	1530	N00	E87	03	7.1	3	X					
4717		BOUL	02	28	1607	S00	E89	03	7.3		A	HKX	60	1	3	4
4717		HOLL	02	28	2111	S00	E86	03	7.3		A	HKX	250	2	4	4
4717		LEAR	03	01	0011	N01	E80	03	7.0		A	HKX	190	3	5	3
4717		BOUL	03	01	1520	N00	E74	03	7.2		B	DKC	300	2	6	4
4717		PALE	03	01	1849	N00	E70	03	7.0		B	DKC	560	5	8	3
4717	24295	MWIL	03	01	2100	S01	E70	03	7.1	5	(D)					
4717		LEAR	03	02	0150	N02	E66	03	7.0		B	DKC	450	7	6	2
4717	24295	MWIL	03	02	1500	S01	E59	03	7.0	5	(D)					
4717		HOLL	03	02	1615	N01	E58	03	7.0		B	DKC	240	14	5	3
4717		LEAR	03	03	0025	N02	E55	03	7.1		B	DKC	250	10	6	2
4717		BOUL	03	03	1515	S01	E45	03	7.0		B	DKC	460	13	6	3
4717	24295	MWIL	03	03	1530	S01	E45	03	7.0	5	(D)					
4717		HOLL	03	03	1555	N00	E43	03	6.9		B	DKC	370	12	5	3
4717		LEAR	03	04	0005	N01	E43	03	7.2		BD	DKC	280	21	10	3
4717		ATHN	03	04	0530	S00	E37	03	7.0			DKC	290	11	6	1
4717	24295	MWIL	03	04	1500	S01	E32	03	7.0	5	(D)					
4717		BOUL	03	04	1525	N01	E33	03	7.1		BD	DKI	420	20	10	3
4717		HOLL	03	04	1910	N02	E33	03	7.3		B	EKI	510	25	12	3
4717		PALE	03	04	2052	N03	E30	03	7.1		B	DKI	280	24	10	2
4717		LEAR	03	05	0100	N03	E29	03	7.2		B	DKI	310	25	10	3
4717		ATHN	03	05	0858	N01	E24	03	7.2			DKC	320	14	7	1
4717	24295	MWIL	03	05	1500	S01	E19	03	7.0	5	(D)					
4717		BOUL	03	05	1533	N03	E18	03	7.0		BGD	DKO	480	16	8	3
4717		HOLL	03	05	1805	N00	E19	03	7.2		BG	EKI	450	23	11	3
4717		ATHN	03	06	0545	N01	E08	03	6.8			DKI	340	11	6	1
4717	24295	MWIL	03	06	1530	S00	E05	03	7.0	5	(D)					
4717		BOUL	03	06	1540	N01	E05	03	7.0		B	DSI	190	9	6	2
4717		HOLL	03	06	1848	N02	E05	03	7.2		BG	EKI	420	21	13	3
4717		HOLL	03	07	1725	N00	W08	03	7.1		BG	EKO	380	21	11	3
4717		BOUL	03	07	1725	S02	W10	03	7.0		B	DAI	220	12	8	2
4717	24295	MWIL	03	07	1830	S00	W09	03	7.1	5	(D)					
4717		ATHN	03	08	0620	N01	W15	03	7.1			CKI	130	11	9	1
4717		LEAR	03	08	0638	N01	W16	03	7.1		B	CKO	150	26	10	2
4717		HOLL	03	08	1545	N00	W22	03	7.0		B	CKI	250	17	8	3
4717		BOUL	03	08	1715	N01	W21	03	7.2		B	CAO	130	6	7	2
4717		RAMY	03	08	1856	S01	W24	03	7.0		BG	CAO	200	14	7	2
4717		LEAR	03	09	0015	N00	W24	03	7.2		B	CSO	90	18	10	3
4717		ATHN	03	09	0610	N01	W27	03	7.2			CAI	140	5	3	1
4717		RAMY	03	09	1241	S00	W33	03	7.1		BG	CAO	150	10	7	3
4717	24295	MWIL	03	09	1600	S00	W33	03	7.2	5	BP					
4717		HOLL	03	09	1615	N00	W35	03	7.1		B	CAO	150	8	6	3
4717		PALE	03	09	1740	N00	W37	03	7.0		B	CHO	180	8	8	3
4717		RAMY	03	10	1307	S01	W45	03	7.2		B	CAO	100	7	4	3
4717		PALE	03	10	2041	S01	W51	03	7.1		B	CAI	100	5	4	2
4717		LEAR	03	11	0001	S00	W50	03	7.3		B	DSO	80	5	3	3
4717		ATHN	03	11	0900	N01	W51	03	7.6			CAO	110	4	2	2
4717		PALE	03	11	1122	S00	W65	03	6.6		B	CAI	70	3	4	2
4717	24295	MWIL	03	11	1500	S00	W59	03	7.2	4	(AP)					
4717		RAMY	03	11	1510	S00	W60	03	7.2		B	DSO	70	3	2	3
4717		BOUL	03	11	1755	N01	W63	03	7.0		A	AXX	20	1	1	2
4717		HOLL	03	11	2034	N00	W62	03	7.2		B	CAO	60	4	3	2
4717		LEAR	03	12	0002	N00	W65	03	7.1		B	DSO	70	3	3	3
4717		ATHN	03	12	0730	N01	W66	03	7.4			CAO	70	3	3	3
4717		RAMY	03	12	1258	S01	W71	03	7.2		B	CAO	20	5	3	4
4717		HOLL	03	12	1637	S01	W73	03	7.2		B	CAO	40	2	2	3
4717A		HOLL	03	04	1910	N10	E51	03	8.6		A	AXX		1		3
4717A		LEAR	03	05	0100	N10	E47	03	8.6		A	AXX	10	1	1	3

S U N S P O T G R O U P S
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

59
Mar 86

MARCH 1986

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		CMD		CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day	UT	Lat									Lon
4719		LEAR	03	20	0237	S12 W15	03 19.0		A	AXX	10	1	1	3
4719		ATHN	03	20	1050	S11 W20	03 18.9			BXO	30	4	4	2
4719		HOLL	03	20	1528	S12 W24	03 18.8		B	BXO	20	5	5	3
4719		BOUL	03	20	1530	S11 W24	03 18.8		B	BXO	10	4	4	3
4719		PALE	03	20	2050	S11 W27	03 18.8		B	BXO	10	5	4	2
4719		LEAR	03	21	0010	S13 W28	03 18.9		B	BXO	20	4	3	2
4719		RAMY	03	21	1335	S11 W35	03 18.9		B	BXO	20	6	3	3
4719		LEAR	03	22	0001	S14 W45	03 18.6		B	BXO	20	2	2	3
4719		PALE	03	22	0030	S13 W44	03 18.7		B	BXO	10	4	6	3
4719		HOLL	03	22	1614	S10 W55	03 18.5		A	AXX		1		3
4719		LEAR	03	23	0028	S16 W56	03 18.8		A	AXX	10	1	1	3
4719	24297	MWIL	03	23	1500	S11 W67	03 18.6	3	(B)					
4719		BOUL	03	23	1530	S10 W70	03 18.4		B	BXO	10	2	4	2
4719		HOLL	03	23	1632	S10 W68	03 18.6		B	BXO	10	2	5	3
4719		LEAR	03	24	0058	S15 W73	03 18.5		B	BXO	10	2	4	3
4719		ATHN	03	24	0645	S10 W75	03 18.6		A	AXX	10	1		4
4719B		LEAR	03	24	0058	S23 E30	03 26.4		A	AXX	10	1	1	3
4719B	24300	MWIL	03	29	1530	N11 W11	03 28.8	3	(AP)					
4720	24298	MWIL	03	23	1500	N03 E75	03 29.2	3	(B)					
4720		BOUL	03	23	1530	N03 E71	03 29.0		A	AXX	30	1	1	2
4720		HOLL	03	23	1632	N03 E75	03 29.3		A	AXX		1	3	3
4720		PALE	03	23	1821	N04 E69	03 28.9		A	AXX	10	1		2
4720		LEAR	03	24	0058	N07 E68	03 29.1		B	BXO	10	2	3	3
4720		ATHN	03	24	0645	N01 E62	03 28.9		A	AXX	10	1		4
4720	24298	MWIL	03	24	1600	N02 E59	03 29.1	3	(B)					
4720		RAMY	03	24	1710	N02 E60	03 29.2		B	BXO	20	6	4	2
4720		PALE	03	24	1838	N03 E58	03 29.1		B	BXO	20	6	5	3
4720		HOLL	03	24	1935	N00 E58	03 29.1		B	BXO	20	6	4	3
4720		LEAR	03	25	0208	N07 E53	03 29.1		B	BXO	10	2	3	3
4720		ATHN	03	25	0700	N02 E51	03 29.1		A	AXX	10	1		3
4720	24298	MWIL	03	25	1515	N02 E47	03 29.1	3	(AF)					
4720		HOLL	03	25	1724	N02 E46	03 29.2		A	AXX	10	1	1	3
4720		RAMY	03	25	1754	N02 E46	03 29.2		A	AXX	10	1		3
4720		LEAR	03	26	0206	N07 E38	03 28.9		B	BXO	10	2	3	3
4720	24298	MWIL	03	26	1500	N02 E32	03 29.0	3	(B)					
4720		LEAR	03	28	0306	N07 E18	03 29.5		B	BXO	10	2	2	2
4720		RAMY	03	28	1327	N05 E12	03 29.5		B	CRO	10	3	2	3
4720	24299	MWIL	03	28	1515	N05 E10	03 29.4	4	(BP)					
4720		BOUL	03	28	1533	N04 E09	03 29.3		A	AXX	10	1	1	3
4720		HOLL	03	28	1558	N05 E10	03 29.4		A	AXX		1		3
4720		PALE	03	28	2045	N04 E07	03 29.4		A	AXX	20	1	1	2
4720		LEAR	03	29	0006	N06 E04	03 29.3		A	AXX	10	1	1	3
4720		PALE	03	29	2028	N02 W13	03 28.9		A	AXX	10	1		3
4720		HOLL	03	29	2141	N03 W13	03 28.9		A	AXX	10	1		4
4720		ATHN	03	30	0530	N01 W15	03 29.1		A	AXX	10	1		2
4720		RAMY	03	30	1228	N04 W23	03 28.8		A	AXX	10	2	1	4
4720									A	AXX		1		4

SUDDEN IONOSPHERIC DISTURBANCES

MARCH 1986

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide-spread Index	Number of Station Reports by Type					Known Flare	X-ray Class	NOAA/SESC Region
						SWF	SEA	SPA	LF-SPA	SES			
01	0058	0102	0120	1-	1			1			No flare		
01	0202	0207	0244	1-	1			1			No flare		
01	0446	0450	0504	1-	1			1			0450 UT		4717
01	0927	0934	0954	1-	1		1				*		
01	1018	1027U	1057U	1	1		1				*		
01	1158	1206U	1219	1-	1		1				*		
02	0257	0303	0321	1-	1			1			No flare		
02	0541	0548	0742	1+	3			1		1	0542 UT	C3.1	4717
02	1257	1259	1313	1-	1		1				*		
02	2036	2044	2115	1+	3					2	2043 UT	C4.3	4717
03	0458	0504	0725	2	3	1		1		1	0500 UT	C7.5	4717
03	1252	1259	1344	1-	5	2	3	1	1	5	1255 UT		No data
03	1330	1335	1345	1-	3	1			1	3	*	C1.9	
03	1356	1403	1410	1-	3		1		1	1	*	C4.7	
03	1411	1416	1441	1-	3	1	3		1	5	1422 UT		4717
05	0428	0434	0519	1-	1			1			No flare		
05	0707	0716	0920	2+	5	1	4	1		2	0703 UT	M1.6	4717
06	0415	0429	0720	2	3	1		1		1	0415 UT	C5.6	No data
06	1320	1322	1345	1	3		2				No flare		
06	1633	1650	1800	2	3					3	1637 UT	C4.6	4717
07	0004	0010	0046	1-	1			1			0004 UT	C2.0	4717
07	0202	0207	0308	1-	3	1		1			0200 UT	C4.1	4717
09	1414	1424	1445	1-	1			1			No flare		
15	0840	0859	0916	1-	3			2			No flare		
16	0943	1031U	1041	1-	1			1			No flare		
16	1226	1259	1328	1-	3			2			No flare		
17	1419	1446	1510	1-	3			2			No flare		
18	1223	1257U	1357	1-	3			2			No flare		
18	1422	1428	1459	1-	1			1			No flare		
19	1404	1412	1426	1-	1			1			No flare		

* No flare patrol

OBSERVATORIES REPORTING FOR MARCH 1986*

Ayshire, Scotland	SES	Maui, Hawaii, USA	SWF
Darmstadt, GFR	SWF	Losov, Czechoslovakia	SEA
Edenvale, Rep. of S. Africa	SES	Panska Ves, Czechoslovakia	SEA, SWF, SES
Farsta, Sweden	SES	Paterson, New Jersey, USA	SES
Hiraiso, Japan	SWF	Sofia, Bulgaria	SES
Houston, Texas, USA	SES	St. Cloud, Minnesota, USA	SES
Inubo, Japan	SPA	Tavares, Florida, USA	SES
Juliusruh, GDR	SWF	Tucson, Arizona, USA	SES
Kuhlungsborn, GDR	SPA, SEA	Uplce, Czechoslovakia	SEA
Latrobe, Pennsylvania, USA	SES	Valley Cottage, New York, USA	SES
Louisville, Kentucky, USA	SES	Vsetin, Czechoslovakia	SEA

*Observations are not necessarily continuous for each site.

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Mar 86

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

MARCH 1986

Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
29	0548	1658	WEIS										
	2036	2400	CULG										
30			LEAR				0435.3	0435.6	2				III
	0000	0736	CULG				0445.5	0446.0	2	0445.5	0446.0	1	IIIG
			CULG				0448.0		1				IIIB
	2036	2400	CULG										
31	0000	0736	CULG										
	1515	1729	WEIS										
	2038	2400	CULG	2203.5	2204.0	1							I

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

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

Stations Reporting:

BLEN = Bielen LEAR = Learmonth PALE = Palehua SGMR = Sagamore Hill WEIS = Weissenau

COSMIC RAY INDICES
(Neutron Monitor)

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Mar 86

MARCH 1986

Day	THULE Average (cts/h)/100	ALERT Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	PREDIGTSTUHL Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1				6193.6				
2				6202.4				
3				6192.9				
4				6190.1				
5				6177.9				
6				6219.3				
7				6182.7				
8				6142.1				
9				6056.6				
10				6058.8				
11				6043.9				
12				6079.4				
13				6121.1				
14				6114.4				
15				6130.4				
16				6153.9				
17				6157.8				
18				6174.6				
19				6184.7				
20				6196.6				
21				6194.8				
22				6200.8				
23				6220.4				
24				6240.5				
25				6229.4				
26				6224.4				
27				6209.0				
28				6211.1				
29				6226.3				
30				6264.3				
31				6263.4				
Mean				6176.0				

For less than 24-hour coverage, parentheses enclose the number of hours for which data are available.
For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

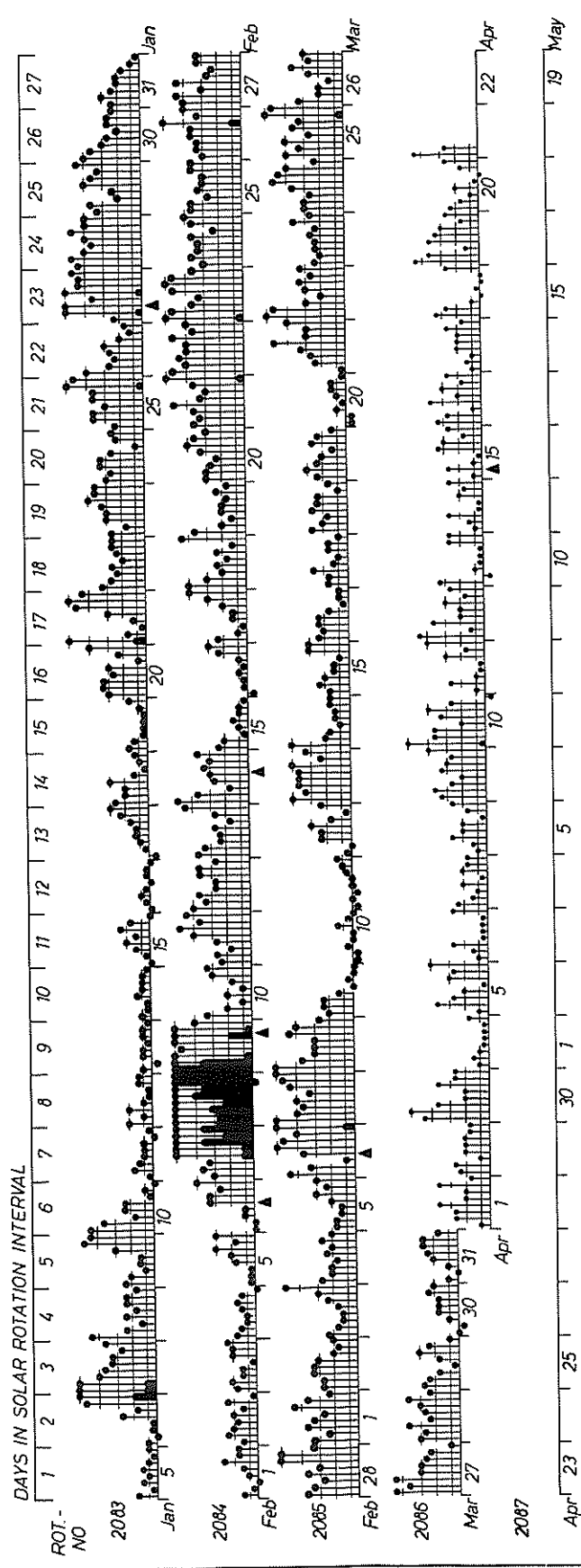
DAILY AVERAGE INDICES Ap

DAY	1985					1986						
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
1	23	10	18	14	18	6	3	15	15	25	5	18
2	16	38	6	3	11	4	5	32	14	18	6	12
3	20	6	4	6	6	4	11	28	9	10	6	12
4	17	10	5	33	6	2	12	16	12	5	5	8
5	7	7	5	16	4	3	66	10	8	4	7	8
6	5	10	25	21	3	9	41	13	7	20	11	32
7	7	8	30	19	4	9	27	7	5	32	82	33
8	15	8	16	16	6	10	16	6	3	11	202	23
9	38	8	22	8	5	12	6	14	5	14	100	5
10	11	4	30	8	7	12	6	19	17	11	10	2
11	11	5	11	10	5	9	16	10	11	4	20	2
12	5	12	10	48	27	5	12	4	7	5	18	7
13	6	11	4	20	41	5	20	24	30	3	15	21
14	10	8	4	16	11	29	8	17	11	4	19	8
15	4	15	5	7	12	18	18	16	10	5	5	8
16	8	11	3	5	9	33	17	10	6	3	5	6
17	5	8	7	20	9	13	15	14	8	6	9	6
18	4	9	4	13	12	5	22	15	12	7	14	8
19	21	9	3	8	12	35	14	14	41	4	9	9
20	53	5	13	8	12	29	6	3	11	15	17	3
21	103	8	7	5	10	23	16	5	5	27	26	17
22	11	5	6	4	28	13	17	8	6	11	30	22
23	12	4	7	13	17	9	13	4	4	17	35	11
24	17	5	5	12	7	17	8	4	10	12	19	21
25	21	8	12	12	18	18	9	6	6	26	18	27
26	30	9	21	16	14	19	4	6	8	12	26	12
27	33	5	13	15	15	17	4	20	12	37	20	18
28	61	5	18	13	13	6	4	8	35	30	25	14
29	17	4	13	5	17	4	11	37	7	19		8
30	42	3	10	11	10	5	3	52	46	14		5
31		7		36	32		6		22	8		7
MEAN	21	9	11	14	13	13	14	15	13	14	27	13

PLANETARY 3-HOUR-RANGE INDICES (Kp) BY 27-DAY SOLAR ROTATION INTERVAL

Kp through March 31, 1986

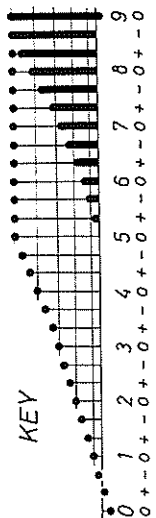
University of Göttingen



PLANETARY MAGNETIC
THREE-HOUR-RANGE INDICES
Kp (after Bartels)

Ks (from Wingst and Göttingen) till Apr 21
Kp till 1986 March 31

▲ = sudden commencement



PRINCIPAL MAGNETIC STORMS

MARCH 1986

Sta	Geomag Lat	Commencement			SC Amplitudes			Maximum 3-Hour K Index Day(3-Hour Periods)	K (Min)	Ranges			End Hour (UT)
		Day	Time (UT)	Type	D (Min)	H (Gamma)	Z (Gamma)			D (Min)	H (Gamma)	Z (Gamma)	
GUA	04.0N	03	2032	..	..	..	..	03(8)	5	---	40	30	04 10
HYB	07.6N	05	1200	..	..	..	..	06(5,6,8) 07(6)	5	3	136	15	07 23
COL	64.6N	06	10--	..	..	..	..	06(4,5) 07(4)	6	219	1250	710	09 00
SIT	60.0N	06	10--	..	..	..	..	06(5)	6	---	450	460	08 22
WIT	54.2N	06	1044	SC*	- 4 *	27	0	06(8) 07(8) 08(1)	6	36	172	90	08 22
FRD	49.6N	06	----	..	..	..	..	06(8)	6	21	98	64	08 09
JAI	17.3N	06	0900	..	..	..	..			5	106	18	09 00
SHL	14.7N	06	0900	..	..	..	..			4	89	28	09 00
UJJ	13.5N	06	0900	..	..	..	..			3	102	16	09 00
ABG	09.5N	06	0900	..	..	..	..	06(8)	6	4	117	24	09 00
ANN	01.5N	06	0900	..	..	..	..			3	128	57	09 00
ETT	00.6S	06	0900	..	..	..	..			5	153	57	08 21
TRD	01.1S	06	0900	..	..	..	..			3	153	81	09 00
HER	33.7S	06	10--	..	..	..	..	06(8) 07(1)	5	22	101	93	07 02
GNA	43.2S	06	10--	..	..	..	..	06(5,6)	5	20	100	100	09 09
KGL	56.5S	06	1043	SC	6.7	25	5	06(8)	7	72	578	300	08 09
HYB	07.6N	12	1200	..	..	..	..	13(5,6)	5	3	129	13	13 23
KGL	56.5S	13	0719	SC	2.8	~ 25	10	13(6)	5	21	200	64	14 03
HYB	07.6N	21	0300	..	..	..	..	22(1)	5	4	113	19	22 22
HYB	07.6N	23	2300	..	..	..	..	24(4,5,6) 25(3)	4	4	98	25	25 23
ETT	00.6S	23	2330	..	..	..	..			5	164	54	25 22
JAI	17.3N	24	0400	..	..	..	..			6	98	25	26 00
SHL	14.7N	24	0400	..	..	..	..			5	79	27	26 00
UJJ	13.5N	24	0400	..	..	..	..			4	78	24	26 00
ABG	09.5N	24	0400	..	..	..	..	24(4,5,6) 25(5)	4	5	90	31	26 00
TRD	01.1S	24	0400	..	..	..	..			2	173	68	26 00
KGL	56.5S	24	1152	SC	1.9	24	8	25(7,8)	5	25	96	56	26 03
FRD	49.6N	25	----	..	..	..	..	25(8) 27(1)	5	25	95	35	27 --

Stations Reporting:

ABG = ALIBAG
ANN = ANNAMALAINAGAR
BJI = BEIJING
COL = COLLEGE

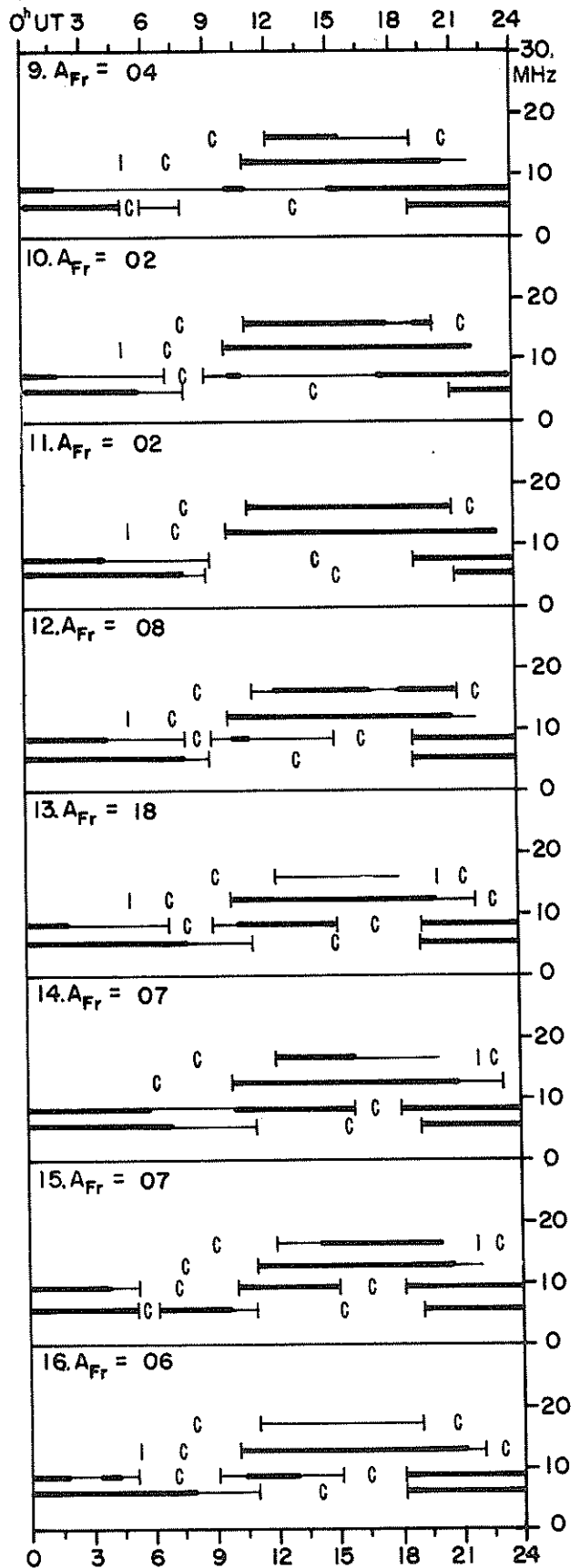
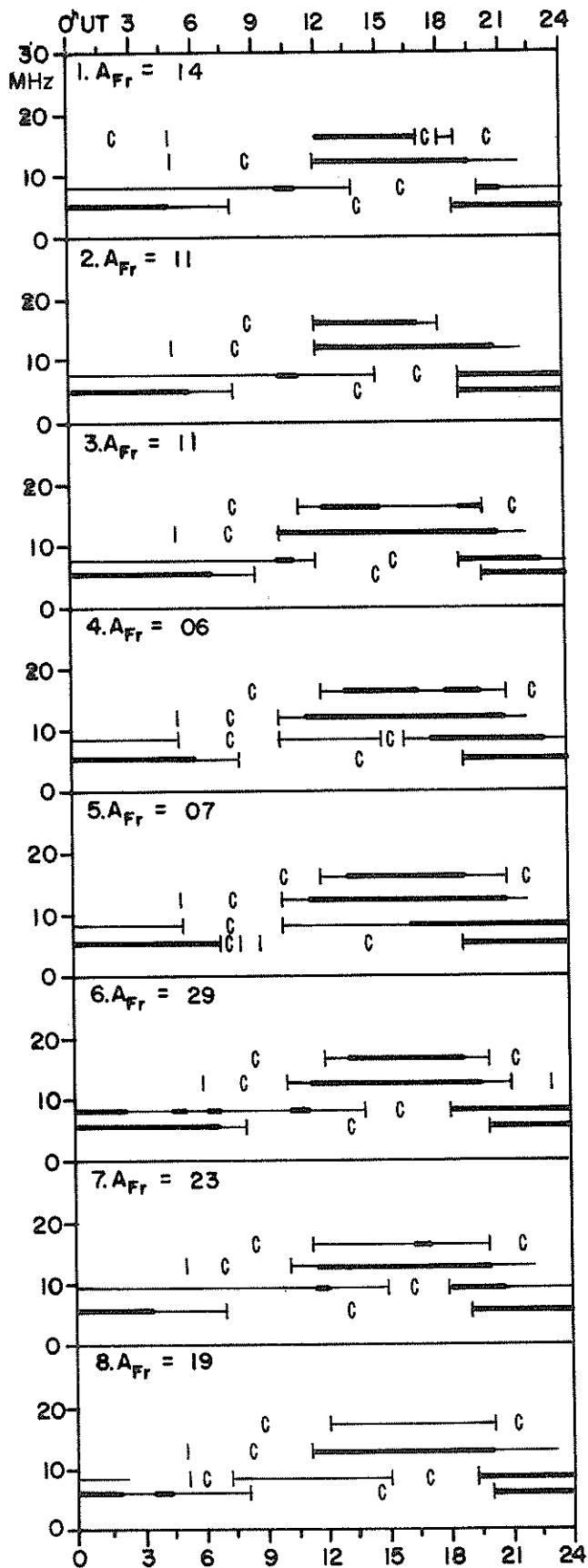
ETT = ETAIYAPURAM
FRD = FREDERICKSBURG
GNA = GNANGARA
GUA = GUAM

HER = HERMANUS
HYB = HYDERABAD
JAI = JAIPUR
KGL = KERGUELEN

SHL = SHILLONG
SIT = SITKA
TRD = TRIVANDRUM
UJJ = UJJAIN
WIT = WITTEVEEN

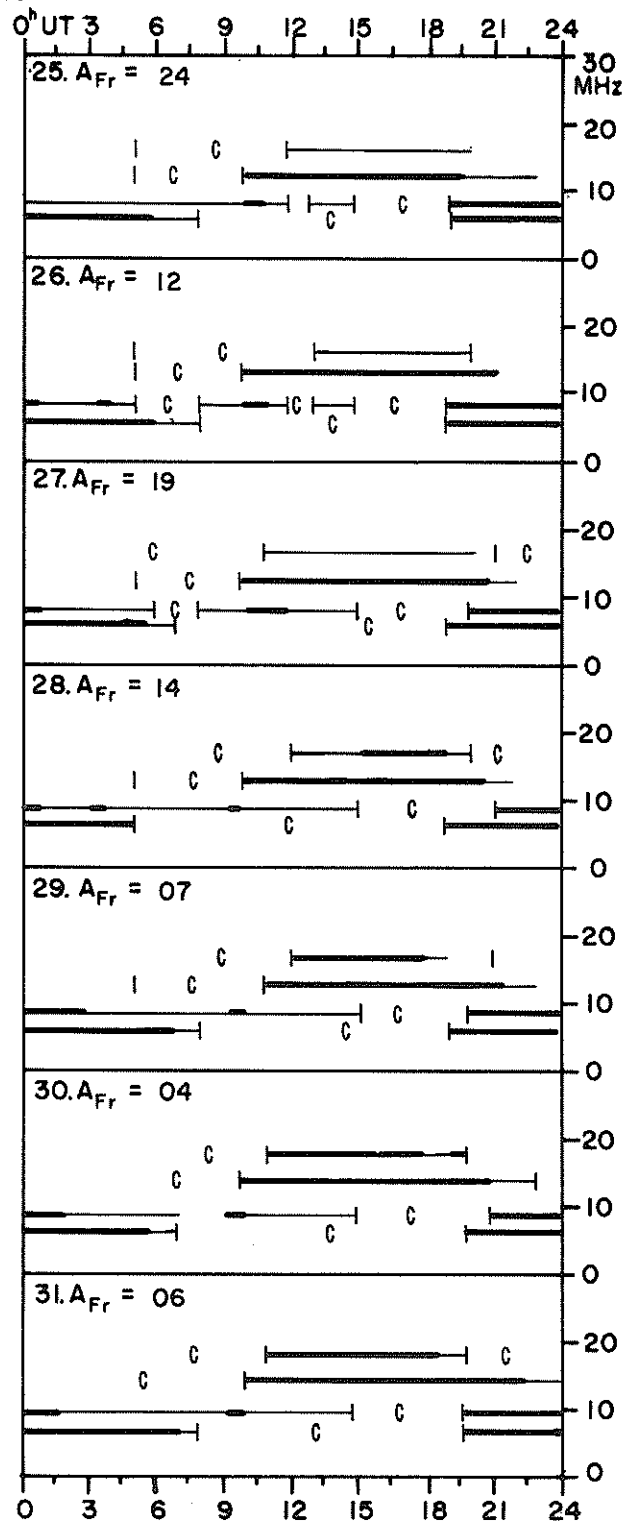
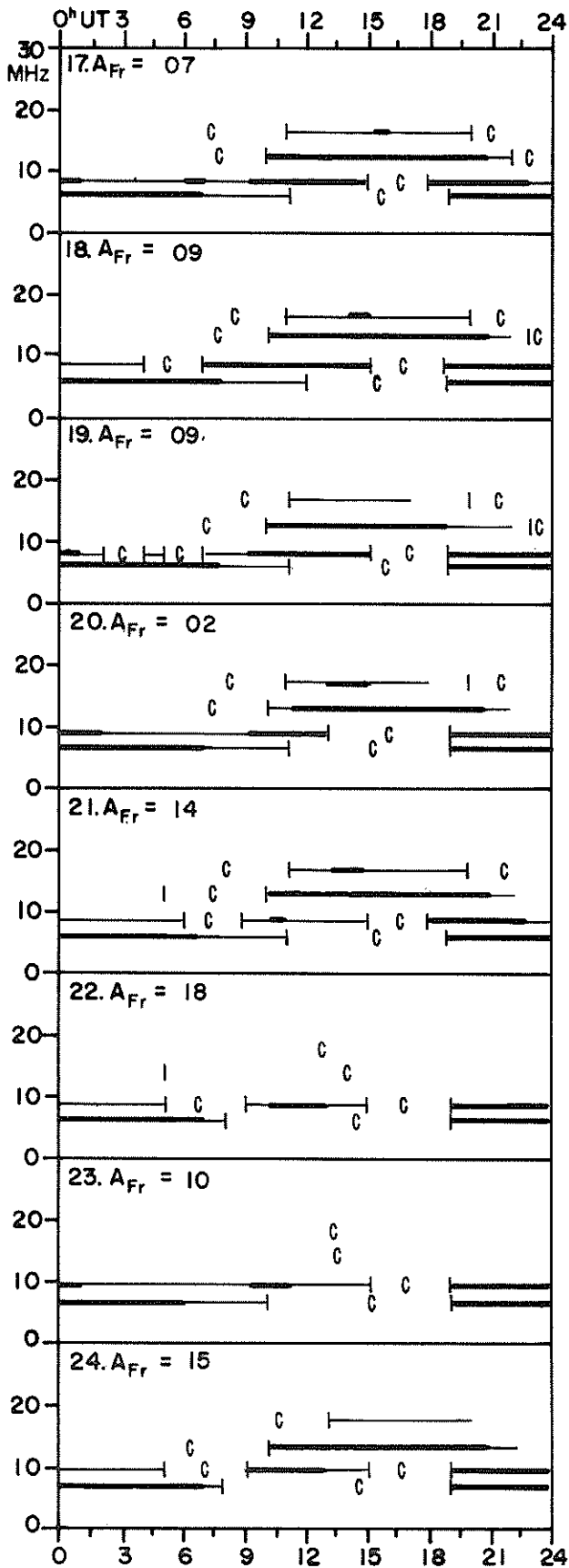
TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

MARCH 1986



TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

MARCH 1986



Field strengths from four frequencies, 6.4, 8.6, 13.0, and 17.0 MHz, observed on a Norddeich-New York circuit are represented above. Heavy solid lines represent field strengths ≥ -12 dB above $1 \mu\text{V/m}$ (transmitter power reduced to 1 kW). Observed field strengths between -12 dB and -40 dB above $1 \mu\text{V/m}$ are represented by the fine line.

RADIO PROPAGATION QUALITY INDICES

MARCH 1986

Day	Bracknell	Teheran	New York	Tokyo	Johannesburg	Canberra
1	6.3	4.8	6.0	5.3	5.9	5.8
2	7.6	7.1	7.3	5.4	6.9	7.1
3	7.6	8.3	7.9	7.7	8.0	7.4
4	6.8	7.5	7.8	7.4	8.1	8.1
5	9.2	9.3	8.1	7.6	6.9	8.1
6	8.2	5.3	7.0	7.5	7.0	7.4
7	5.2	4.0	4.9	6.8	5.3	5.8
8	5.4	4.3	6.6	5.6	4.5	7.0
9	5.2	3.6	8.2	6.4	5.7	6.9
10	7.1	6.0	9.2	6.1	3.2	7.3
11	7.7	8.8	9.9	6.4	7.1	6.8
12	7.9	7.6	8.3	7.1	7.6	7.3
13	7.0	9.9	6.3	6.5	6.1	7.0
14	9.3	7.7	8.9	8.8	6.1	6.7
15	7.7	6.4	8.6	6.9	6.0	6.6
16	5.9	6.7	7.1	6.8	6.0	6.6
17	6.2	6.7	6.7	8.0	4.7	6.2
18	6.8	9.2	6.9	6.6	3.7	6.1
19	5.7	8.3	6.4	9.9	2.1	6.0
20	5.5	5.5	5.4	8.3	3.8	6.1
21	7.2	7.9	4.9	7.8	6.3	6.2
22	4.5	7.1	6.1	6.0	0.0	6.2
23	5.0	7.9	3.6	4.7	0.0	6.3
24	4.9	8.1	3.7	4.2	8.5	6.3
25	4.7	7.4	4.3	3.8	7.4	5.8
26	3.3	3.2	3.5	4.6	6.5	5.8
27	5.0	3.1	3.8	4.7	7.3	6.2
28	5.2	3.8	5.1	5.6	7.8	4.8
29	4.4	3.1	5.9	6.1	5.8	5.0
30	4.9	3.1	6.0	5.5	6.8	5.2
31	5.5	4.0	6.1	7.8	6.0	4.5
Mean	6.2	6.3	6.5	6.5	5.7	6.4

CALCULATION OF QUALITY INDICES (Q)

From all 24 hourly field strength values and from all frequencies of the same circuit a median field strength value is calculated (FD). This daily value is compared with the average value (FA) of the preceeding 27 days (1 sun rotation).

$$Q = 6.0 + 20 \log(FD/FA)/3.0$$

The quality indices vary from 0.0 to 9.9 where 6.0 is normal. Conditions are "normal" (index = 6.0), if they correspond to the average of the preceeding 27 days.

SCALE FOR QUALITY INDICES

- 0.0 - 1.0 = very poor
- 1.1 - 3.0 = poor
- 3.1 - 5.0 = fair
- 5.1 - 7.0 = normal
- 7.1 - 9.0 = good
- 9.1 - 9.9 = very good

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SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

FEBRUARY 1986

Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type	
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)		
01	0000	0746	CULG	0517.5	0519.0	1							DCIM	
	2046	2400	CULG	2213.0	2213.5	1							IIIG	
			CULG	2221.0	2222.0	1							IIIG	
			CULG	2354.5	2355.0	1							IIIG	
02	0000	0630	CULG	0112.0	0113.0	1							IIIG	
			CULG	0345.0	0346.0	1							IIIG	
			CULG				0534.0	0537.0	1				IIIG	
			CULG				2047.0	2140.0	2				IIIS	
			CULG				2047.0	2357.0	1				IIIN	
	2047	2400	CULG				2047.0	2205.0	2				IS,C	
			CULG	2144.5	2151.0	1							IIIN	
			CULG				2151.0		2				IIIB	
			CULG				2205.0	2254.0	1				IS	
			CULG				2327.0		2				IIIB	
03	0000	0746	CULG				0059.0	0733.0	1				IIIN	
			CULG				0230.0	0746.0	1				IS	
			CULG				0624.0	0626.5	3				IIIG	
			CULG				2100.0	0742.5	2	0102.0	0702.5	1	II	N
			CULG				2106.0	2400.0	2				IS,C,DC	
			CULG	2106.0	2246.0	1							CONT	
	2106	2400	CULG	2106.0E	2111.0	2							IIIN	
			CULG				2112.5	2133.0	2				IIIS	
			CULG				2117.0	2125.5	3				POSS II	
			CULG	2154.0	2159.5	2							DCIM	
			CULG	2203.0	2215.5	2							DCIM	
			CULG	2226.5	2231.0	2							DCIM	
		CULG	2240.0	2245.0	1							DCIM		
		CULG							2344.0	2400.0	1	IIIN		
04	0000	0746	CULG				0000.0	0734.0	2				IIIS	
			CULG				0000.0	0746.0	1				IS	
			CULG	0120.0	0135.0	2							CONT	
			CULG							0145.0	0703.5	2	IIIN	
			CULG	0321.0	0733.0	1							DCIM,N	
			CULG				0734.0	0746.0	3	0734.5	0740.0	3	IIIS	
			CULG	0735.0	0746.0	3							CONT P	
			CULG							0738.0	0746.0	2	SWF	
			CULG	2046.0	2000.0								CONT	
	2046	2400	CULG	2046.0	2400.0	1							IIIN	
		CULG				2046.0	2400.0	3				IS,C		
		CULG				2103.0	2104.5	2	2103.0	2104.5	2	IIIG		
		CULG				2108.5	2400.0	2	2057.0	2400.0	1	IIIS		
05	0000	0746	CULG				0000.0	0746.0	2				IS,C,DC	
			CULG	0045.0	0103.0	3				0004.0	0101.5	2	IIIS	
			CULG	0046.0	0047.0	2							CONT	
			CULG	0115.5	0116.5	1							IIIG	
			CULG				0127.0	0737.0	3	0127.0	0558.0	3	IIIG,N	
			CULG	0330.5	0548.5	3							IIIN	
			CULG	0628.0		1	0626.5	0637.0	3	0626.5	0634.5	3	IIIGG	
			CULG				2046.0	2400.0	2	2046.0	2400.0	1	IIIS	
	2046	2400	CULG				2046.0	2400.0	2				IS,C,DC	
			CULG				2046.5	2400.0	1				RSDP,N	
06			CULG				0000.0	0544.0	1				RSDP,N	
			CULG				0000.0	0746.0	2	0000.0	0442.0	1	IIIS	
	0000	0746	CULG				0000.0	0746.0	2				IS,C,DC	
			CULG				0619.0	0625.0	3	0619.0	0625.0	3	IIIGG,V	
			CULG							0622.0	0643.0	2	SWF	
			CULG				0624.0	0746.0	2				IV	
			CULG				0625.5	0641.5	3	0626.0	0639.0	3	POSSIBL II	
			CULG				2046.0E	2400.0	2				IIIS	
	2046	2400	CULG				2046.0E	2400.0	2				IS,C,DC	
			CULG							2057.5	2349.0	1	IIIN	
07	0000	0746	CULG				0000.0	0535.0	2				IIIS	
			CULG				0000.0	0746.0	1				IS,C,DC	
			CULG							0001.5	0531.5	1	IIIN	
			CULG				0535.0	0746.0	1				IIIS	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

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FEBRUARY 1986

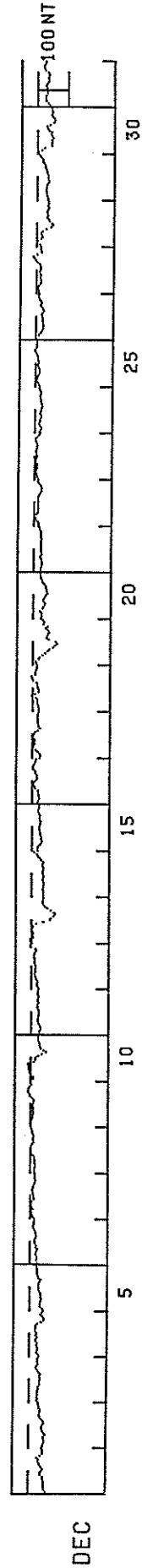
Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
07			CULG				2046.0E	2400.0	1				IIIS
	2046	2400	CULG				2046.0E	2349.0	1				IS,DC
08	0000	0746	CULG				0000.0	0331.0					IIIS,W
			CULG				0240.0		2				RSDP
			CULG				0617.0	0636.0					IIIN,W
	2050	2400	CULG				2053.0	2140.0					IIIS,W
			CULG				2110.0	2110.5	1				IIIB
09	0000	0746	CULG				0104.0	0125.0					IIIS,W
			CULG				0224.5	0226.6	1	0224.5	0226.0	1	IIIG
			CULG							0310.0		1	IIIB
			CULG				0315.0	0316.5	2	0315.5	0316.0	2	IIIG
	2047	2400	CULG				2047.5E	2400.0	1				IS
			CULG				2114.5	2400.0	1				IIIS
			CULG				2250.0	2400.0	1				IIIN
			CULG										
10	0000	0746	CULG				0000.0	0746.0	1				IS
			CULG				0016.0	0155.5	1				IIIN
			CULG				0158.0	0158.5	2				IIIG
			CULG				0304.0		1				IIIB
			CULG	0507.5		1							IIIB
	2046	2400	CULG				2046.0E	2350.0	2				IS,C,DC
			CULG				2052.0	2052.5	1				DCIM
			CULG				2118.5		1				DCIM
			CULG										IIIS
			CULG				2350.0	2400.0	1				IS,C,DC
		CULG				2350.0	2400.0	1					
11	0000	0746	CULG				0000.0	0305.0	1				IIIS
			CULG				0000.0	0305.0	1				IS,C,DC
			CULG				0120.0		2				IIIB
			CULG				0305.0	0746.0	2				IS,C,DC
			CULG							0315.0	2340.0	1	SWF
			CULG				0448.0	0448.5	1				IIIG
			CULG				0630.0	0705.0	1				IIIS
			CULG				0705.0	0746.0	2				IIIS
			CULG				2046.0E	2400.0	1				IIIS
	2046	2400	CULG				2046.0E	2400.0	1				IS,C,DC
			CULG				2124.5	2125.0	3	2124.5	2125.0	2	IIIB,U
			CULG				2154.5	2155.0	2				IIIG
			CULG				2307.5	2343.5	2				IIIS
			CULG				2313.0	2316.0	3				IIIGG
12	0000	0746	CULG				0000.0	0122.0	1				IIIS
			CULG				0000.0	0746.0	1				IS,C,DC
			CULG				0122.0	0746.0					IIIS,W
			CULG				0211.5	0352.5	1	0212.0	0424.0	1	IIIN
			CULG				0445.5	0446.0	2				IIIB
			CULG	0446.0	0446.5	1							IIIG
			CULG	0709.5	0746.0	1							IS
			CULG				2046.0E	2400.0	1				IIIS
	2046	2400	CULG				2046.0E	2400.0	1				IS,C,DC
			CULG										
13	0000	0643	CULG				0000.0	0643.0	1				IIIS
			CULG				0000.0	0250.0	1				IS
			CULG				0223.0	0223.5	2				IIIB
			CULG				0228.0	0228.5	2				IIIB
			CULG				0250.0	0643.0	1				IS,C
			CULG				0251.0		2				IIIB
			CULG				0337.0	0337.5	2				IIIB
	2228	2400	CULG				2228.0	2400.0					IIIS,W
			CULG	2315.0	2316.0	2							DCIM
			CULG	2315.5	2316.0	1							IIIG
		CULG	2316.5	2317.0	1							IIIG	
14	0000	0746	CULG				0000.0	0746.0					IIIS,W
			CULG				0002.5	0003.0	1				IIIG
			CULG				0035.0	0357.0	1				IN
			CULG	0037.5	0636.5	1							IS
			CULG				0357.0	0746.0	1				IS
			CULG				0526.5	0527.0	1				IIIB

Correction to the Provisional Dst
for November 1985: The value for
the 4th hour of the 19th day
should read "-16" instead of
"-20."

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

DECEMBER 1985

DAY	UNIT=NT																														U.T.		
	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	28	29	30	31		
1	-56	-51	-49	-49	-49	-49	-48	-45	-45	-39	-38	-42	-45	-40	-36	-35	-31	-32	-27	-38	-46	-44	-45	-43									
2	-46	-46	-50	-49	-47	-48	-52	-50	-44	-43	-40	-44	-48	-47	-43	-36	-34	-34	-35	-37	-33	-32	-30	-30									
3	-26	-27	-25	-27	-27	-27	-30	-29	-34	-34	-34	-36	-34	-34	-35	-31	-28	-22	-24	-29	-28	-27	-27	-30									
4	-29	-24	-25	-28	-25	-24	-25	-20	-20	-25	-20	-24	-20	-18	-20	-21	-26	-38	-46	-46	-40	-36	-41	-44									
5	-41	-34	-34	-34	-35	-38	-36	-35	-36	-32	-29	-29	-29	-29	-33	-35	-29	-27	-24	-23	-23	-24	-22	-25									
6	-24	-21	-22	-22	-19	-21	-22	-23	-19	-20	-16	-16	-16	-18	-20	-19	-17	-15	-12	-11	-13	-12	-14	-13									
7	-9	-7	-5	-4	-8	-5	-1	-2	-6	-12	-12	-10	-8	-8	-7	-10	-11	-14	-16	-17	-15	-16	-15	-14									
8	-14	-13	-14	-15	-14	-14	-14	-12	-9	-2	-2	0	-1	-4	-7	-10	-9	-9	-10	-9	-6	-5	-4	-2									
9	-1	1	-3	-6	-7	-7	-10	-8	-9	-8	-7	-8	-11	-10	-6	1	3	6	8	7	3	-1	1	-2									
10	-8	-8	-1	3	5	6	7	9	8	-10	-15	-16	-23	-35	-49	-40	-32	-29	-29	-27	-23	-24	-24	-25									
11	-27	-27	-30	-30	-27	-23	-22	-22	-22	-24	-25	-25	-23	-21	-20	-20	-23	-21	-22	-23	-22	-22	-22	-23									
12	-22	-19	-19	-21	-17	-13	-12	-11	-13	-12	-13	-13	-12	-10	-12	-11	-8	-9	-10	-15	-14	1	3	-2									
13	4	5	-5	-4	-7	-4	-2	-4	-5	-15	-38	-60	-63	-72	-76	-72	-61	-51	-43	-38	-35	-36	-37	-38									
14	-38	-38	-37	-36	-37	-37	-39	-37	-36	-37	-37	-35	-35	-38	-34	-34	-35	-37	-31	-25	-21	-17	-9	-18									
15	-18	-21	-27	-31	-32	-31	-30	-27	-28	-25	-23	-24	-25	-27	-29	-26	-26	-26	-23	-20	-20	-23	-23	-24									
16	-18	-21	-23	-22	-20	-21	-18	-10	-9	-6	-6	-11	-16	-15	-15	-11	-10	-4	-1	-5	-8	-10	-14	-23									
17	-27	-23	-17	-10	-4	-4	-7	-7	-8	-4	-1	-5	-8	-17	-23	-19	-19	-17	-17	-17	-17	-17	-18	-21									
18	-21	-18	-18	-16	-15	-15	-10	3	-9	-18	-21	-17	-15	-15	-12	-2	2	3	-8	-9	-11	-13	-13	-13									
19	-10	-11	-18	-22	-30	-39	-47	-53	-64	-71	-80	-73	-51	-44	-46	-49	-52	-48	-41	-47	-34	-36	-32	-26									
20	-28	-28	-26	-22	-30	-32	-38	-37	-32	-32	-37	-41	-45	-43	-43	-41	-39	-34	-29	-27	-24	-23	-22	-23									
21	-23	-22	-25	-28	-28	-26	-24	-21	-26	-25	-23	-23	-23	-23	-24	-23	-25	-23	-23	-23	-24	-21	-18	-16									
22	-15	-14	-8	-6	-2	-8	-12	-13	-13	-14	-13	-13	-14	-14	-14	-17	-20	-24	-23	-23	-20	-15	-12	-13									
23	-11	-8	-7	-6	-7	-8	-9	-8	-5	-5	-7	-9	-7	-5	-6	-7	-8	-8	-7	-4	-4	-8	-14	-18									
24	-16	-20	-20	-16	-13	-17	-16	-20	-21	-17	-18	-21	-22	-23	-22	-19	-20	-17	-17	-19	-18	-17	-14	-14									
25	-12	-8	-6	-7	-9	-10	-13	-13	-14	-10	-9	-10	-10	-9	-9	-7	-4	0	1	-3	-6	-3	-6	3									
26	0	-9	-11	-17	-20	-24	-24	-23	-22	-21	-22	-21	-18	-20	-25	-22	-19	-16	-18	-15	-12	-8	-8	-10									
27	-9	-7	-6	-9	-14	-16	-15	-12	-16	-14	-11	-14	-14	-13	-10	-3	2	6	10	-2	-17	-15	-14	-10									
28	-10	-2	-3	-14	-18	-16	-14	-18	-31	-45	-53	-49	-41	-39	-33	-35	-34	-32	-36	-39	-36	-37	-37	-36									
29	-35	-33	-30	-30	-29	-30	-31	-33	-38	-39	-36	-35	-35	-33	-31	-29	-28	-26	-22	-17	-18	-12	-8	-5									
30	-3	-13	-24	-45	-45	-48	-45	-51	-47	-44	-45	-37	-32	-30	-40	-53	-56	-54	-50	-46	-48	-49	-45	-44									
31	-39	-34	-28	-27	-26	-28	-33	-33	-31	-31	-27	-31	-36	-35	-35	-38	-39	-34	-26	-22	-21	-23	-28	-28									



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Late
Feb 86

MAGNETIC STORM SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS
(PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS)

FEBRUARY 1986

Storm Sudden Commencements (ssc)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
06	1312	A: DOB MMB FRD HTY HVN CZT KGL;	03	0924-0933	MPO
		B: SOD WNG WIT HAD COI SPT KNY LNP GNA CAO;	04	0735-0825	WNG BDV GCK MMB EBR
		C: NGK BDV CLF GCK ALM KAK DUM			SPT ALM KAK HTY KNY LNP GNA CAO
14	1434	A: SOD WNG HVN;	04	1022-1050	WNG GCK
		B: DOB NGK ALM LNP MPO CZT KGL;	06	0620-0800	WNG MMB AQU KAK HTY
		C: WIT HAD BDV CLF EBR SPT DUM			LNP GNA CAO
16	1838	A: MPO;	10	0923-0940	ALM
		B: SOD WNG LNP HVN;	14	0905-1010	WNG
		C: CAO			

Reporting Observatories:

SOD DOB NUR WNG WIT NGK HAD BDV CLF GCK MMB AQU EBR COI
SPT FRD ALM KAK HTY KNY LNP HVN MPO GNA CAO AMS CZT KGL
DUM

*Three-letter codes identify each observatory.

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

DECEMBER 1983

Calcium Plage Region	Sta	Observation Time		Lat	CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day			Mo	Day					Intensity
19149	BIGB	11	29	1616	S10 E31	12	2.0	1.0	0175		
19149	BIGB	11	30	1554	S12 E17	12	1.9	1.5	0150		
19149	BIGB	12	03	1708	S09 W26	12	1.8	1.5	0300		
19149	BIGB	12	05	1605	S10 W52	12	1.8	1.0	0300		
19149	BIGB	12	06	1521	S10 W68	12	1.5	1.0	0175		
19152	BIGB	12	05	1605	S21 W36	12	2.9	2.5	0375	4373	
19152	BIGB	12	06	1521	S20 W47	12	3.0	2.5	0700	4373	
19152	BIGB	12	07	1518	S20 W60	12	3.0	2.0	0900	4373	
19152	BIGB	12	08	1852	S20 W77	12	2.9	2.0	1000	4373	
19146	BIGB	11	27	1658	N19 E79	12	3.7	2.5	1500	4366	
19146	BIGB	11	28	1625	N18 E65	12	3.6	3.0	1700	4366	
19146	BIGB	11	29	1616	N18 E50	12	3.5	3.0	2000	4366	
19146	BIGB	11	30	1554	N18 E36	12	3.4	3.0	2000	4366	
19146	BIGB	12	03	1708	N18 W05	12	3.3	3.0	2000	4366	
19146	BIGB	12	05	1605	N18 W30	12	3.4	2.5	1500	4366	
19146	BIGB	12	06	1521	N18 W44	12	3.3	2.5	1500	4366	
19146	BIGB	12	07	1518	N18 W56	12	3.4	2.5	1500	4366	
19146	BIGB	12	08	1852	N17 W77	12	2.9	1.5	1200	4366	
19156	BIGB	12	07	1518	S10 W40	12	4.6	1.0	0100		
19147	BIGB	11	28	1625	N11 E81	12	4.8	2.5	0550	4367	
19147	BIGB	11	29	1616	N11 E69	12	4.9	2.5	1000	4367	
19147	BIGB	11	30	1554	N11 E57	12	4.9	3.0	1000	4367	
19147	BIGB	12	03	1708	N11 E15	12	4.8	3.0	0900	4367	
19147	BIGB	12	05	1605	N11 W10	12	4.9	2.5	0900	4367	
19147	BIGB	12	06	1521	N12 W23	12	4.9	2.0	1100	4367	
19147	BIGB	12	07	1518	N12 W36	12	4.9	2.0	1300	4367	
19147	BIGB	12	08	1852	N12 W53	12	4.8	2.0	1200	4367	
19147	BIGB	12	09	1844	N12 W65	12	4.9	1.5	0500	4367	
19147	BIGB	12	10	1538	N12 W79	12	4.7	1.0	0700	4367	
19147	BIGB	12	11	1513	N11 W80	12	5.6	1.0	0300	4367	
19151	BIGB	12	03	1708	S11 E38	12	6.6	3.0	2000	4367A	
19151	BIGB	12	05	1605	S11 E13	12	6.6	2.5	2300	4367A	
19151	BIGB	12	06	1521	S11 W01	12	6.6	2.0	1500	4367A	
19151	BIGB	12	07	1518	S11 W14	12	6.6	2.0	1400	4367A	
19151	BIGB	12	08	1852	S12 W27	12	6.7	2.0	1100	4367A	
19151	BIGB	12	09	1844	S13 W40	12	6.8	2.0	0800	4367A	
19151	BIGB	12	10	1538	S13 W52	12	6.7	2.0	0700	4367A	
19151	BIGB	12	11	1513	S13 W65	12	6.7	1.5	0900	4367A	
19151	BIGB	12	12	1537	S14 W79	12	6.7	1.0	0500	4367A	
19150	BIGB	11	30	1554	N21 E75	12	6.4	1.5	1700		
19150	BIGB	12	03	1708	N24 E37	12	6.6	2.0	4000		
19150	BIGB	12	05	1605	N24 E10	12	6.4	2.0	4000		
19150	BIGB	12	06	1521	N24 E03	12	6.9	2.0	4000		
19150	BIGB	12	07	1518	N23 W11	12	6.8	2.0	4000		
19150	BIGB	12	08	1852	N24 W28	12	6.6	1.5	3700		
19150	BIGB	12	09	1844	N25 W37	12	6.9	1.5	3500		
19150	BIGB	12	10	1538	N24 W50	12	6.8	1.5	4000		
19150	BIGB	12	11	1513	N25 W60	12	7.0	1.5	3200		
19150	BIGB	12	12	1537	N26 W65	12	7.6	1.5	1500		
19150	BIGB	12	13	1559	N29 W70	12	8.2	1.0	1000		
19157	BIGB	12	07	1518	S10 W01	12	7.6	2.5	0300	4370	
19157	BIGB	12	08	1852	S10 W16	12	7.6	2.5	0300	4370	
19157	BIGB	12	09	1844	S10 W28	12	7.7	2.5	0400	4370	
19157	BIGB	12	10	1538	S10 W41	12	7.6	2.0	0500	4370	
19157	BIGB	12	11	1513	S10 W56	12	7.4	1.5	0700	4370	
19157	BIGB	12	12	1537	S10 W68	12	7.5	1.5	0500	4370	
19157	BIGB	12	13	1559	S10 W85	12	7.3	1.0	0300	4370	
19158	BIGB	12	08	1852	N12 W11	12	7.9	2.5	0500	4375	
19158	BIGB	12	09	1844	N12 W24	12	8.0	3.5	1000	4375	
19158	BIGB	12	10	1538	N12 W37	12	7.9	2.5	1000	4375	
19158	BIGB	12	11	1513	N12 W51	12	7.8	2.5	1400	4375	
19158	BIGB	12	12	1537	N11 W62	12	8.0	2.0	1100	4375	
19158	BIGB	12	13	1559	N12 W75	12	8.0	1.0	0400	4375	

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

DECEMBER 1983

Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF Sunspot Groups					
		Mo	Day		Mo	Day		Intensity	#1	#2	#3		
19165	BIGB	12	12	1537	N22	W35	12	10.0	1.5	0100			
19165	BIGB	12	13	1559	N23	W48	12	10.0	1.0	0100			
19153	BIGB	12	05	1605	S02	E68	12	10.7	2.5	2000	4371		
19153	BIGB	12	06	1521	S03	E55	12	10.7	2.5	2000	4371		
19153	BIGB	12	07	1518	S03	E42	12	10.8	2.5	1700	4371		
19153	BIGB	12	08	1852	S03	E26	12	10.7	3.0	1500	4371		
19153	BIGB	12	09	1844	S02	E15	12	10.9	2.5	1100	4371		
19153	BIGB	12	10	1538	S02	E03	12	10.9	2.5	1000	4371		
19153	BIGB	12	11	1513	S02	W10	12	10.9	2.5	1000	4371		
19153	BIGB	12	12	1537	S03	W23	12	10.9	2.5	1100	4371		
19153	BIGB	12	13	1559	S03	W35	12	11.0	2.0	0900	4371		
19153	BIGB	12	14	1657	S03	W50	12	11.0	2.0	0800	4371		
19153	BIGB	12	15	1600	S03	W64	12	10.9	2.0	0800	4371		
19153	BIGB	12	16	1547	S03	W77	12	10.9	1.0	0600	4371		
19155	BIGB	12	05	1605	S13	E70	12	10.9	3.0	1000	4372		
19155	BIGB	12	06	1521	S13	E56	12	10.9	3.0	1200	4372		
19155	BIGB	12	07	1518	S13	E43	12	10.9	3.0	1600	4372		
19155	BIGB	12	08	1852	S13	E28	12	10.9	3.0	1700	4372		
19155	BIGB	12	09	1844	S12	E15	12	10.9	3.5	2300	4372		
19155	BIGB	12	10	1538	S12	E04	12	10.9	3.0	2500	4372		
19155	BIGB	12	11	1513	S13	W10	12	10.9	2.5	2400	4372		
19155	BIGB	12	12	1537	S14	W22	12	11.0	3.0	2400	4372		
19155	BIGB	12	13	1559	S12	W35	12	11.0	3.0	1300	4372		
19155	BIGB	12	14	1657	S13	W50	12	10.9	3.0	1200	4372		
19155	BIGB	12	15	1600	S13	W63	12	10.9	2.5	1400	4372		
19155	BIGB	12	16	1547	S13	W75	12	11.0	2.5	0900	4372		
19167	BIGB	12	13	1559	S16	W32	12	11.2	3.0	0700			
19167	BIGB	12	14	1657	S17	W47	12	11.1	3.0	0800			
19167	BIGB	12	15	1600	S17	W60	12	11.1	2.5	0900			
19167	BIGB	12	16	1547	S17	W73	12	11.1	2.5	1000			
19164	BIGB	12	12	1537	S24	W17	12	11.3	1.0	0200			
19164	BIGB	12	13	1559	S24	W31	12	11.3	1.0	0300			
19164	BIGB	12	14	1657	S25	W45	12	11.2	1.0	0200			
19154	BIGB	12	05	1605	S15	E75	12	11.3	2.0	1000	4376		
19154	BIGB	12	06	1521	S15	E61	12	11.2	1.5	1000	4376		
19154	BIGB	12	07	1518	S15	E53	12	11.6	1.5	1600	4376		
19154	BIGB	12	08	1852	S15	E37	12	11.6	2.5	1100	4376		
19154	BIGB	12	09	1844	S15	E25	12	11.7	3.0	1700	4376		
19154	BIGB	12	10	1538	S14	E12	12	11.5	3.0	2000	4376		
19154	BIGB	12	11	1513	S14	W00	12	11.6	2.5	2000	4376		
19154	BIGB	12	12	1537	S15	W14	12	11.6	3.0	2400	4376		
19154	BIGB	12	13	1559	S15	W25	12	11.8	3.0	1000	4376		
19154	BIGB	12	14	1657	S16	W40	12	11.7	3.0	0900	4376		
19154	BIGB	12	15	1600	S16	W53	12	11.6	2.5	1000	4376		
19154	BIGB	12	16	1547	S16	W66	12	11.6	2.5	0700	4376		
19154	BIGB	12	17	1531	S16	W80	12	11.6	2.0	0800	4376		
19166	BIGB	12	12	1537	S08	W08	12	12.0	1.0	0200	4379		
19166	BIGB	12	13	1559	S07	W22	12	12.0	1.0	0300	4379		
19166	BIGB	12	14	1657	S08	W37	12	11.9	2.5	0300	4379		
19166	BIGB	12	15	1600	S08	W50	12	11.9	2.5	0200	4379		
19166	BIGB	12	16	1547	S08	W65	12	11.8	3.0	0300	4379		
19166	BIGB	12	17	1531	S08	W80	12	11.6	3.0	0600	4379		
19159	BIGB	12	08	1852	N01	E80	12	14.8	2.0	1800	4374		
19159	BIGB	12	09	1844	N02	E65	12	14.6	3.0	2000	4374		
19159	BIGB	12	10	1538	N02	E55	12	14.7	3.0	2500	4374		
19159	BIGB	12	11	1513	N02	E40	12	14.6	3.0	3000	4374		
19159	BIGB	12	12	1537	N02	E28	12	14.7	3.0	2500	4374		
19159	BIGB	12	13	1559	N02	E13	12	14.6	3.0	1700	4374		
19159	BIGB	12	14	1657	N02	W01	12	14.6	3.0	1600	4374		
19159	BIGB	12	15	1600	N03	W14	12	14.6	3.0	2200	4374		
19159	BIGB	12	16	1547	N03	W25	12	14.8	3.0	1700	4374		
19159	BIGB	12	17	1531	N03	W39	12	14.7	2.5	1800	4374		
19159	BIGB	12	18	1603	N03	W54	12	14.6	2.5	1400	4374		
19159	BIGB	12	19	1529	N03	W68	12	14.6	2.5	1400	4374		

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

DECEMBER 1983

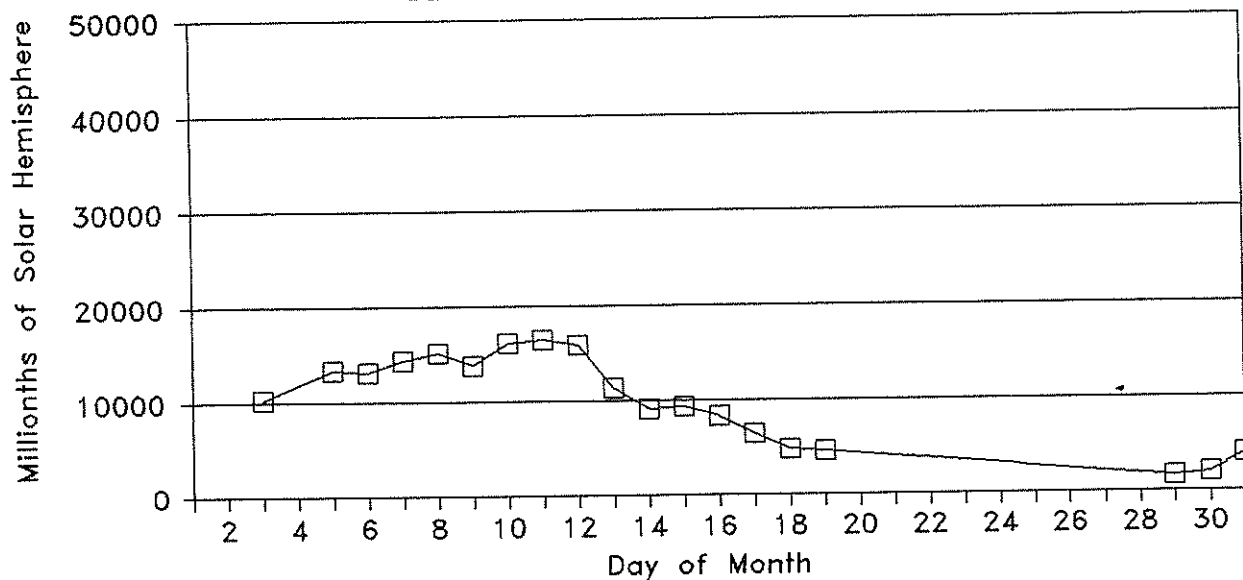
Calcium Plage Region	Sta	Observation Time		Lat	CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day			Mo	Day					Intensity
19160	BIGB	12	09	1844	N07 E80	12	15.8	1.0	0500		4374A
19160	BIGB	12	10	1538	N07 E70	12	15.9	1.5	1200		4374A
19160	BIGB	12	11	1513	N06 E57	12	15.9	2.0	0700		4374A
19160	BIGB	12	12	1537	N06 E44	12	15.9	2.0	0600		4374A
19160	BIGB	12	13	1559	N07 E28	12	15.8	1.5	0300		4374A
19160	BIGB	12	14	1657	N07 E16	12	15.9	2.0	0400		4374A
19160	BIGB	12	15	1600	N07 E04	12	16.0	1.5	0200		4374A
19160	BIGB	12	16	1547	N08 W10	12	15.9	1.0	0300		4374A
19160	BIGB	12	17	1531	N08 W24	12	15.8	1.0	0300		4374A
19160	BIGB	12	18	1603	N08 W37	12	15.9	1.0	0200		4374A
19160	BIGB	12	19	1529	N08 W50	12	15.9	1.0	0300		4374A
19169	BIGB	12	17	1531	S12 W08	12	17.0	1.0	0100		
19169	BIGB	12	18	1603	S12 W22	12	17.0	1.0	0100		
19161	BIGB	12	11	1513	S13 E82	12	17.8	1.5	0900		4378
19161	BIGB	12	12	1537	S14 E71	12	18.0	2.5	2000		4378
19161	BIGB	12	13	1559	S15 E56	12	17.9	2.5	2300		4378
19161	BIGB	12	14	1657	S14 E44	12	18.0	2.5	2000		4378
19161	BIGB	12	15	1600	S14 E32	12	18.1	2.5	1800		4378
19161	BIGB	12	16	1547	S14 E18	12	18.0	2.5	1500		4378
19161	BIGB	12	17	1531	S14 E05	12	18.0	2.0	1000		4378
19161	BIGB	12	18	1603	S14 W09	12	18.0	2.0	1100		4378
19161	BIGB	12	19	1529	S14 W23	12	17.9	2.5	0900		4378
19162	BIGB	12	12	1537	N22 E78	12	18.6	1.0	0400		4381
19162	BIGB	12	13	1559	N20 E64	12	18.6	1.0	0300		4381
19162	BIGB	12	14	1657	N20 E50	12	18.5	1.0	0300		4381
19163	BIGB	12	12	1537	N11 E80	12	18.7	1.0	0400		
19163	BIGB	12	13	1559	N10 E68	12	18.8	1.0	0500		
19163	BIGB	12	14	1657	N09 E54	12	18.7	1.5	0600		
19163	BIGB	12	15	1600	N09 E42	12	18.8	1.0	0300		
19163	BIGB	12	16	1547	N09 E28	12	18.8	1.0	0400		
19163	BIGB	12	17	1531	N10 E15	12	18.8	1.0	0400		
19168	BIGB	12	15	1600	S11 E57	12	19.9	3.0	0600		4380
19168	BIGB	12	16	1547	S10 E43	12	19.9	3.0	0900		4380
19168	BIGB	12	17	1531	S10 E28	12	19.7	3.5	1500		4380
19168	BIGB	12	18	1603	S10 E13	12	19.6	3.5	2000		4380
19168	BIGB	12	19	1529	S10 W00	12	19.6	3.0	2000		4380
19175	BIGB	12	31	1603	S16 W44	12	28.3	2.5	0300		
19175	BIGB	01	01	1903	S17 W58	12	28.5	1.5	0100		
19170	BIGB	12	29	1724	S20 E12	12	30.6	1.5	0500		
19170	BIGB	12	30	1550	S20 W01	12	30.6	1.5	0700		
19170	BIGB	12	31	1603	S21 W15	12	30.5	1.0	0400		
19170	BIGB	01	01	1903	S22 W28	12	30.7	1.0	0700		
19170	BIGB	01	03	1557	S22 W53	12	30.7	1.0	0700		
19170	BIGB	01	04	1605	S23 W68	12	30.5	1.0	0400		
19171	BIGB	12	29	1724	N13 E13	12	30.7	2.0	0300		4384
19171	BIGB	12	30	1550	N12 W00	12	30.6	1.5	0250		4384
19171	BIGB	12	31	1603	N13 W13	12	30.7	2.0	0200		4384
19171	BIGB	01	01	1903	N11 W28	12	30.8	1.0	0250		4384
19171	BIGB	01	03	1557	N14 W55	12	30.6	3.0	0500		4384
19171	BIGB	01	04	1605	N15 W68	12	30.6	3.0	0650		4384
19172	BIGB	12	29	1724	N14 E18	12	31.1	2.0	0400		4384
19172	BIGB	12	30	1550	N14 E06	12	31.1	2.0	0400		4384
19172	BIGB	12	31	1603	N14 W07	12	31.1	2.0	0500		4384
19172	BIGB	01	01	1903	N13 W21	12	31.2	2.5	0600		4384
19172	BIGB	01	03	1557	N13 W48	12	31.0	3.0	1000		4384
19172	BIGB	01	04	1605	N13 W61	12	31.1	3.0	1500		4384

DAILY PLAGE SUMMARIES

DECEMBER 1983

Day	Sta	Plage Index	Plage Count	Smallest Plage (Millionths of Solar Hemisphere)	Largest Plage	Total Area (Millionths of Solar Hemisphere)	Smallest Intensity	Largest Intensity
01	No Observations This Day							
02	No Observations This Day							
03	BIGB	19.7	6	300	4000	10200	1.5	3.0
04	No Observations This Day							
05	BIGB	21.9	9	300	4000	13375	1.0	3.0
06	BIGB	21.2	9	175	4000	13175	1.0	3.0
07	BIGB	23.3	10	100	4000	14400	1.0	3.0
08	BIGB	21.3	11	300	3700	15100	1.5	3.0
09	BIGB	26.3	10	400	3500	13800	1.0	3.5
10	BIGB	27.2	10	500	4000	16100	1.0	3.0
11	BIGB	26.0	11	300	3200	16500	1.0	3.0
12	BIGB	27.3	15	100	2500	15900	1.0	3.0
13	BIGB	18.4	15	100	2300	11400	1.0	3.0
14	BIGB	17.1	11	200	2000	9100	1.0	3.0
15	BIGB	16.4	10	200	2200	9400	1.0	3.0
16	BIGB	12.8	10	300	1700	8300	1.0	3.0
17	BIGB	11.1	8	100	1800	6500	1.0	3.5
18	BIGB	11.0	5	100	2000	4800	1.0	3.5
19	BIGB	9.3	4	300	2000	4600	1.0	3.0
20	No Observations This Day							
21	No Observations This Day							
22	No Observations This Day							
23	No Observations This Day							
24	No Observations This Day							
25	No Observations This Day							
26	No Observations This Day							
27	No Observations This Day							
28	No Observations This Day							
29	BIGB	2.7	5	200	500	1700	1.5	2.0
30	BIGB	3.2	5	250	700	2050	1.5	2.0
31	BIGB	3.2	7	200	2000	4000	1.0	2.5

DAILY PLAGE AREAS FOR DECEMBER 1983



BIG BEAR SOLAR OBSERVATORY
ACTIVE REGION SUMMARY

DECEMBER 1983

Region Number	Return Of Region	Rotation Age	First Seen This Rotation	Duration This Rotation
19149	New	1	831129	08 Days
152	New	1	831205	04
146	New	1	831127	12
156	New	1	831207	01
147	New	1	821128	13
151	19130	2	831203	10
150	19127	3	831130	14
157	New	1	831207	07
158	New	1	831208	06
165	New	1	831212	02
153	New	1	831205	>12
155	New	1	831205	>12
167	New	1	831213	04
154	19135	2	831205	13
164	New	1	831212	03
166	New	1	831212	06
159	New	1	831208	>12
160	New	1	831209	>11
169	New	1	831217	02
161	New	1	831211	>09
162	New	1	831212	03
163	New	1	831212	06
168	New	1	831214	>06
175	New	1	831231	>02
170	19152	2	831229	>06
171	New in leading portion of 19146	1	831229	>06
172	New in trailing portion of 19146	1	831229	>06

1. No CaK Observations at BBSO on Dec. 1, 2, 4, 20-28.
2. No CaK Plots on Dec. 1-4, 20-29.
3. No KPNO Magnetograms on Dec. 1, 2, 4, 20-28.
4. Contiguous Plages: 19154/19155/19167

84
Late
Jan 84

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

JANUARY 1984

Calcium Plage Region	Sta	Mo	Day	Observation Time (UT)	Lat	CMD	Mo	Day	CMP Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
19173	BIGB	12	29	1724	N13	E38	01	1.6	2.0	0200			
19173	BIGB	12	30	1550	N12	E25	01	1.5	1.5	0300			
19173	BIGB	12	31	1603	N13	E11	01	1.5	1.5	0300			
19173	BIGB	01	01	1903	N11	W06	01	1.3	1.5	0300			
19174	BIGB	12	29	1724	N13	E44	01	2.0	2.0	0300	4387		
19174	BIGB	12	30	1550	N12	E31	01	2.0	2.0	0400	4387		
19174	BIGB	12	31	1603	N12	E17	01	1.9	1.5	0300	4387		
19174	BIGB	01	01	1903	N11	E04	01	2.1	1.5	0400	4387		
19174	BIGB	01	03	1557	N11	W25	01	1.8	1.5	0400	4387		
19174	BIGB	01	04	1605	N11	W38	01	1.8	1.0	0300	4387		
19176	BIGB	12	31	1603	S09	E85	01	7.0	1.5	2000	4390		
19176	BIGB	01	01	1903	S09	E67	01	6.8	2.0	3500	4390		
19176	BIGB	01	03	1557	S12	E46	01	7.1	2.5	3500	4390		
19176	BIGB	01	04	1605	S12	E34	01	7.2	2.5	3800	4390		
19176	BIGB	01	08	1636	S11	W22	01	7.0	2.5	3800	4390		
19176	BIGB	01	09	1655	S10	W35	01	7.1	2.5	2600	4390		
19176	BIGB	01	10	1635	S10	W49	01	7.0	2.5	2500	4390		
19176	BIGB	01	11	1644	S10	W62	01	7.0	2.5	3300	4390		
19176	BIGB	01	12	1547	S09	W75	01	7.0	2.0	2400	4390		
19179	BIGB	01	08	1636	S16	W12	01	7.8	3.0	1000	4388		
19179	BIGB	01	09	1655	S16	W25	01	7.8	2.5	1200	4388		
19179	BIGB	01	10	1635	S16	W39	01	7.7	2.5	1300	4388		
19179	BIGB	01	11	1644	S16	W53	01	7.7	2.5	1300	4388		
19179	BIGB	01	12	1547	S16	W67	01	7.6	2.0	1500	4388		
19177	BIGB	01	04	1605	S05	E67	01	9.7	2.5	0300	4391		
19177	BIGB	01	08	1636	S06	W00	01	8.7	1.5	0400	4391		
19177	BIGB	01	09	1655	S06	W13	01	8.7	1.5	0300	4391		
19177	BIGB	01	10	1635	S06	W28	01	8.6	1.5	0300	4391		
19177	BIGB	01	11	1644	S06	W40	01	8.7	1.0	0100	4391		
19184	BIGB	01	09	1655	S15	W03	01	9.5	2.0	0100			
19178	BIGB	01	04	1605	N02	E69	01	9.8	2.0	0800			
19178	BIGB	01	08	1636	N01	E18	01	10.0	1.5	1100			
19178	BIGB	01	09	1655	N01	E05	01	10.1	1.5	1300			
19178	BIGB	01	10	1635	N01	W09	01	10.0	1.5	1200			
19178	BIGB	01	11	1644	N01	W21	01	10.1	1.5	1400			
19178	BIGB	01	12	1547	N02	W34	01	10.1	1.5	1300			
19178	BIGB	01	15	1616	N01	W72	01	10.3	1.0	0900			
19178	BIGB	01	16	1544	N01	W79	01	10.7	1.0	0500			
19180	BIGB	01	08	1636	S02	E34	01	11.2	2.5	0300	4389	4391A	
19180	BIGB	01	09	1655	S02	E22	01	11.3	2.5	0500	4389	4391A	
19180	BIGB	01	10	1635	S03	E07	01	11.2	2.5	0500	4389	4391A	
19180	BIGB	01	11	1644	S02	W05	01	11.3	2.0	0400	4389	4391A	
19180	BIGB	01	12	1547	S03	W19	01	11.2	2.5	0600	4389	4391A	
19180	BIGB	01	15	1616	S03	W58	01	11.3	2.0	0600	4389	4391A	
19180	BIGB	01	16	1544	S03	W70	01	11.4	1.5	0600	4389	4391A	
19185	BIGB	01	09	1655	S08	E22	01	11.3	1.5	0200			
19185	BIGB	01	10	1635	S08	E07	01	11.2	1.0	0100			
19185	BIGB	01	11	1644	S07	W05	01	11.3	1.0	0100			
19181	BIGB	01	08	1636	S04	E44	01	12.0	3.0	0900	4389	4389A	
19181	BIGB	01	09	1655	S04	E30	01	11.9	3.0	1000	4389	4389A	
19181	BIGB	01	10	1635	S06	E16	01	11.9	3.0	0600	4389	4389A	
19181	BIGB	01	11	1644	S05	E04	01	12.0	2.5	0600	4389	4389A	
19181	BIGB	01	12	1547	S05	W10	01	11.9	2.5	0800	4389	4389A	
19181	BIGB	01	15	1616	S06	W47	01	12.1	2.0	1000	4389	4389A	
19181	BIGB	01	16	1544	S06	W61	01	12.1	1.5	0600	4389	4389A	
19181	BIGB	01	17	1611	S05	W74	01	12.1	1.5	0700	4389	4389A	
19182	BIGB	01	08	1636	S13	E70	01	14.0	2.0	0700			
19182	BIGB	01	09	1655	S15	E56	01	13.9	2.0	0400			
19182	BIGB	01	10	1635	S15	E42	01	13.9	2.0	0500			
19182	BIGB	01	11	1644	S15	E30	01	14.0	2.0	0700			
19182	BIGB	01	12	1547	S14	E17	01	13.9	1.0	0700			

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

JANUARY 1984

Calcium Plage Region	Sta	Observation Time		Lat	CMD	CMP		Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day			Mo	Day					
19182	BIGB	01	15	1616	S14 W21	01	14.1	1.0	0700			
19182	BIGB	01	16	1544	S13 W38	01	13.8	1.0	0700			
19182	BIGB	01	17	1611	S12 W50	01	13.9	1.0	0800			
19182	BIGB	01	18	1536	S13 W62	01	14.0	1.5	0600			
19182	BIGB	01	19	1615	S13 W76	01	13.9	1.0	0300			
19183	BIGB	01	08	1636	S07 E80	01	14.7	3.0	0700	4392		
19183	BIGB	01	09	1655	S13 E74	01	15.3	3.5	4000	4392		
19183	BIGB	01	10	1635	S13 E63	01	15.4	3.0	4500	4392		
19183	BIGB	01	11	1644	S13 E51	01	15.5	2.5	4700	4392		
19183	BIGB	01	12	1547	S13 E37	01	15.4	3.0	4500	4392		
19183	BIGB	01	15	1616	S14 W06	01	15.2	3.5	4500	4392		
19183	BIGB	01	16	1544	S15 W15	01	15.5	3.0	4000	4392		
19183	BIGB	01	17	1611	S15 W32	01	15.2	3.0	4000	4392		
19183	BIGB	01	18	1536	S14 W45	01	15.2	3.0	4000	4392		
19183	BIGB	01	19	1615	S15 W58	01	15.3	3.0	3500	4392		
19183	BIGB	01	20	1742	S15 W73	01	15.2	3.0	3000	4392		
19183	BIGB	01	21	1545	S15 W84	01	15.3	2.5	1800	4392		
19186	BIGB	01	10	1635	S15 E77	01	16.5	3.5	1000	4393		
19186	BIGB	01	11	1644	S15 E66	01	16.7	3.5	2000	4393		
19186	BIGB	01	12	1547	S17 E49	01	16.4	3.5	2700	4393		
19186	BIGB	01	15	1616	S16 E09	01	16.4	3.0	2600	4393		
19186	BIGB	01	16	1544	S16 E01	01	16.7	3.0	2400	4393		
19186	BIGB	01	17	1611	S16 W15	01	16.5	3.0	3000	4393		
19186	BIGB	01	18	1536	S17 W27	01	16.6	3.0	2800	4393		
19186	BIGB	01	19	1615	S17 W41	01	16.6	3.5	3500	4393		
19186	BIGB	01	20	1742	S17 W55	01	16.5	3.5	2500	4393		
19186	BIGB	01	21	1545	S17 W69	01	16.4	3.0	2400	4393		
19186	BIGB	01	22	1603	S18 W78	01	16.7	3.0	1800	4393		
19194	BIGB	01	22	1603	N14 W73	01	17.1	2.0	0400			
19189	BIGB	01	19	1615	S05 E25	01	21.5	3.5	0300	4396		
19189	BIGB	01	20	1742	S05 E08	01	21.3	3.0	1100	4396		
19189	BIGB	01	21	1545	S05 W05	01	21.3	3.0	1500	4396		
19189	BIGB	01	22	1603	S05 W16	01	21.5	3.0	1800	4396		
19189	BIGB	01	23	1701	S06 W29	01	21.5	3.0	2000	4396		
19189	BIGB	01	24	1614	S06 W42	01	21.5	3.0	1800	4396		
19189	BIGB	01	25	1704	S06 W54	01	21.7	3.5	2500	4396		
19189	BIGB	01	26	1628	S07 W73	01	21.2	2.5	2200	4396		
19189	BIGB	01	27	1716	S07 W81	01	21.6	2.5	1200	4396		
19187	BIGB	01	16	1544	S03 E79	01	22.5	2.5	1500	4394	4396	
19187	BIGB	01	17	1611	S03 E62	01	22.3	2.5	2000	4394	4396	
19187	BIGB	01	18	1536	S04 E48	01	22.2	2.5	1200	4394	4396	
19187	BIGB	01	19	1615	S04 E35	01	22.3	2.5	0900	4394	4396	
19187	BIGB	01	20	1742	S04 E19	01	22.1	2.5	1200	4394	4396	
19187	BIGB	01	21	1545	S05 E06	01	22.1	2.5	0800	4394	4396	
19187	BIGB	01	22	1603	S04 W04	01	22.4	2.5	1000	4394	4396	
19187	BIGB	01	23	1701	S05 W17	01	22.4	2.5	0900	4394	4396	
19187	BIGB	01	24	1614	S04 W31	01	22.3	2.5	0800	4394	4396	
19187	BIGB	01	25	1704	S04 W43	01	22.5	2.5	1000	4394	4396	
19187	BIGB	01	26	1628	S06 W61	01	22.1	1.5	0800	4394	4396	
19187	BIGB	01	27	1716	S05 W71	01	22.4	1.5	0700	4394	4396	
19188	BIGB	01	16	1544	S17 E85	01	23.1	2.0	0200	4395		
19188	BIGB	01	17	1611	S17 E72	01	23.1	2.0	0600	4395		
19188	BIGB	01	18	1536	S17 E57	01	23.0	2.0	0500	4395		
19188	BIGB	01	19	1615	S16 E43	01	22.9	2.5	0700	4395		
19188	BIGB	01	20	1742	S17 E27	01	22.8	2.5	1000	4395		
19188	BIGB	01	21	1545	S17 E14	01	22.7	2.5	0600	4395		
19188	BIGB	01	22	1603	S16 E03	01	22.9	2.5	0700	4395		
19188	BIGB	01	23	1701	S16 W10	01	22.9	2.0	0400	4395		
19188	BIGB	01	24	1614	S17 W23	01	22.9	2.0	0400	4395		
19188	BIGB	01	25	1704	S16 W36	01	23.0	2.0	0400	4395		
19188	BIGB	01	26	1628	S19 W51	01	22.8	1.5	0500	4395		
19188	BIGB	01	27	1716	S19 W64	01	22.8	1.5	0400	4395		
19188	BIGB	01	28	1634	S17 W74	01	23.1	1.0	0400	4395		
19202	BIGB	01	27	1716	S08 W64	01	22.9	1.0	0100			

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Late
Jan 84

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

JANUARY 1984

Calcium Plage Region	Sta	Observation Time		Lat	CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day			Mo	Day					Intensity
19193	BIGB	01	23	1701	S06 W09	01	23.0	2.0	0200		
19193	BIGB	01	24	1614	S05 W23	01	22.9	1.5	0200		
19193	BIGB	01	25	1704	S06 W35	01	23.1	2.0	0200		
19193	BIGB	01	26	1628	S05 W53	01	22.7	1.0	0100		
19193	BIGB	01	27	1716	S06 W64	01	22.9	1.0	0200		
19195	BIGB	01	24	1614	N06 W09	01	24.0	1.0	0100	4401	
19195	BIGB	01	25	1704	N06 W20	01	24.2	1.5	0200	4401	
19195	BIGB	01	26	1628	N06 W36	01	24.0	2.0	0200	4401	
19195	BIGB	01	27	1716	N06 W51	01	23.9	2.0	0300	4401	
19195	BIGB	01	28	1634	N07 W65	01	23.8	1.5	0400	4401	
19195	BIGB	01	29	1646	N06 W77	01	23.9	2.0	0400	4401	
19196	BIGB	01	24	1614	S18 W03	01	24.4	1.5	0100		
19196	BIGB	01	25	1704	S18 W15	01	24.6	1.0	0200		
19208	BIGB	01	31	1636	S10 W80	01	25.7	1.5	0200		
19205	BIGB	01	28	1634	N15 W35	01	26.0	3.0	0600	4397	4404
19205	BIGB	01	29	1646	N15 W49	01	26.0	3.0	1000	4397	4404
19205	BIGB	01	30	1631	N16 W66	01	25.7	3.0	0700	4397	4404
19205	BIGB	01	31	1636	N15 W76	01	25.9	3.0	0600	4397	4404
19190	BIGB	01	20	1742	N16 E75	01	26.4	2.5	1500	4397	
19190	BIGB	01	21	1545	N17 E65	01	26.6	3.0	2600	4397	
19190	BIGB	01	22	1603	N17 E55	01	26.8	3.0	1700	4397	
19190	BIGB	01	23	1701	N17 E42	01	26.9	3.0	2500	4397	
19190	BIGB	01	24	1614	N17 E29	01	26.9	3.0	2800	4397	
19190	BIGB	01	25	1704	N15 E14	01	26.8	3.5	3500	4397	
19190	BIGB	01	26	1628	N16 W00	01	26.7	3.0	3500	4397	
19190	BIGB	01	27	1716	N16 W16	01	26.5	3.0	3300	4397	
19190	BIGB	01	28	1634	N15 W25	01	26.8	3.0	3000	4397	
19190	BIGB	01	29	1646	N16 W39	01	26.7	3.0	3300	4397	
19190	BIGB	01	30	1631	N16 W53	01	26.7	3.0	3300	4397	
19190	BIGB	01	31	1636	N16 W67	01	26.6	3.0	3600	4397	
19190	BIGB	02	01	1703	N18 W71	01	27.4	3.0	3000	4397	
19197	BIGB	01	24	1614	S13 E35	01	27.3	2.0	0200	4407	
19197	BIGB	01	25	1704	S14 E22	01	27.4	1.0	0200	4407	
19197	BIGB	01	26	1628	S14 E08	01	27.3	1.5	0200	4407	
19197	BIGB	01	27	1716	S13 W07	01	27.2	1.5	0200	4407	
19197	BIGB	01	28	1634	S14 W19	01	27.2	1.5	0200	4407	
19197	BIGB	01	29	1646	S14 W36	01	27.0	2.0	0300	4407	
19197	BIGB	01	30	1631	S15 W52	01	26.7	2.0	0300	4407	
19197	BIGB	01	31	1636	S15 W66	01	26.7	1.5	0200	4407	
19197	BIGB	02	01	1703	S16 W77	01	27.0	1.0	0100	4407	
19191	BIGB	01	21	1545	N13 E74	01	27.2	2.5	2000	4398	
19191	BIGB	01	22	1603	N14 E68	01	27.8	3.0	2000	4398	
19191	BIGB	01	23	1701	N14 E55	01	27.9	3.0	3000	4398	
19191	BIGB	01	24	1614	N14 E42	01	27.8	3.5	3000	4398	
19191	BIGB	01	25	1704	N13 E28	01	27.8	3.5	3000	4398	
19191	BIGB	01	26	1628	N14 E13	01	27.7	3.5	3800	4398	
19191	BIGB	01	27	1716	N13 W01	01	27.6	3.5	4000	4398	
19191	BIGB	01	28	1634	N14 W13	01	27.7	4.0	4000	4398	
19191	BIGB	01	29	1646	N14 W26	01	27.7	4.0	4000	4398	
19191	BIGB	01	30	1631	N14 W40	01	27.7	4.0	4400	4398	
19191	BIGB	01	31	1636	N14 W54	01	27.6	4.0	4000	4398	
19191	BIGB	02	01	1703	N14 W63	01	28.0	4.0	4000	4398	
19191	BIGB	02	02	1640	N13 W75	01	28.1	4.0	4000	4398	
19198	BIGB	01	24	1614	N08 E46	01	28.1	2.0	0100	4400	
19198	BIGB	01	25	1704	N08 E34	01	28.3	2.0	0500	4400	
19198	BIGB	01	26	1628	N08 E18	01	28.0	2.0	0400	4400	
19198	BIGB	01	27	1716	N07 E07	01	28.2	2.0	0300	4400	
19198	BIGB	01	28	1634	N07 W06	01	28.2	2.0	0300	4400	
19198	BIGB	01	29	1646	N07 W20	01	28.2	1.5	0300	4400	
19198	BIGB	01	30	1631	N06 W35	01	28.1	1.0	0300	4400	
19198	BIGB	01	31	1636	N07 W48	01	28.1	1.5	0300	4400	
19198	BIGB	02	01	1703	N07 W59	01	28.4	1.5	0300	4400	
19198	BIGB	02	02	1640	N07 W73	01	28.3	1.5	0300	4400	

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

JANUARY 1984

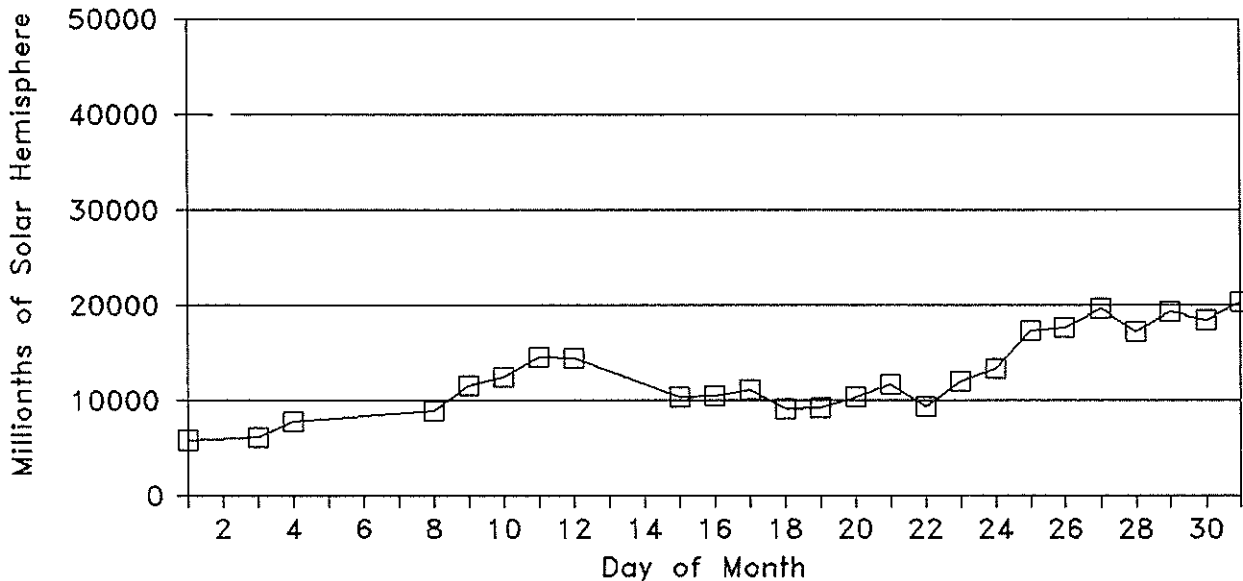
Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF Sunspot Groups				
		Mo	Day (UT)		Mo	Day		Intensity	#1	#2	#3	
19206	BIGB	01	28	1634	S12 E07	01	29.2	1.0	0100			
19192	BIGB	01	23	1701	N12 E75	01	29.3	3.0	3000	4399		
19192	BIGB	01	24	1614	N12 E61	01	29.3	4.0	3200	4399		
19192	BIGB	01	25	1704	N12 E48	01	29.3	3.5	3500	4399		
19192	BIGB	01	26	1628	N12 E33	01	29.2	4.0	3500	4399		
19192	BIGB	01	27	1716	N12 E20	01	29.2	4.0	4200	4399		
19192	BIGB	01	28	1634	N11 E08	01	29.3	3.5	3800	4399		
19192	BIGB	01	29	1646	N12 W05	01	29.3	3.5	4300	4399		
19192	BIGB	01	30	1631	N11 W20	01	29.2	4.0	3800	4399		
19192	BIGB	01	31	1636	N12 W33	01	29.2	4.0	4000	4399		
19192	BIGB	02	01	1703	N12 W42	01	29.6	4.0	4500	4399		
19192	BIGB	02	02	1640	N11 W55	01	29.6	4.0	4400	4399		
19192	BIGB	02	03	1804	N10 W70	01	29.6	3.5	4500	4399		
19192	BIGB	02	04	1714	N10 W78	01	29.9	3.0	2500	4399		
19207	BIGB	01	28	1634	S19 E09	01	29.4	1.5	0100	4405		
19207	BIGB	01	29	1646	S19 W05	01	29.3	2.5	0300	4405		
19207	BIGB	01	30	1631	S19 W19	01	29.2	1.5	0300	4405		
19207	BIGB	01	31	1636	S19 W32	01	29.2	1.0	0200	4405		
19207	BIGB	02	01	1703	S19 W44	01	29.4	1.0	0150	4405		
19207	BIGB	02	02	1640	S18 W58	01	29.4	1.0	0200	4405		
19207	BIGB	02	03	1804	S18 W74	01	29.2	1.0	0100	4405		
19199	BIGB	01	24	1614	S12 E82	01	30.8	1.5	0700	4402		
19199	BIGB	01	25	1704	S12 E73	01	31.2	2.5	0900	4402		
19199	BIGB	01	26	1628	S12 E58	01	31.0	2.5	1300	4402		
19199	BIGB	01	27	1716	S14 E43	01	31.0	2.5	1500	4402		
19199	BIGB	01	28	1634	S13 E31	01	31.0	2.5	1100	4402		
19199	BIGB	01	29	1646	S13 E17	01	31.0	2.0	1200	4402		
19199	BIGB	01	30	1631	S13 E03	01	30.9	2.0	0900	4402		
19199	BIGB	01	31	1636	S14 W10	01	30.9	2.0	0900	4402		
19199	BIGB	02	01	1703	S14 W20	01	31.2	2.0	0700	4402		
19199	BIGB	02	02	1640	S14 W31	01	31.3	2.0	0800	4402		
19199	BIGB	02	03	1804	S14 W46	01	31.3	2.0	0500	4402		
19199	BIGB	02	04	1714	S14 W60	01	31.2	2.0	0400	4402		
19199	BIGB	02	05	1733	S14 W71	01	31.4	1.5	0300	4402		
19199	BIGB	02	06	1518	S14 W85	01	31.2	1.0	0300	4402		
19200	BIGB	01	25	1704	N13 E72	01	31.1	2.5	1200	4403		
19200	BIGB	01	26	1628	N13 E57	01	31.0	2.5	1000	4403		
19200	BIGB	01	27	1716	N14 E44	01	31.0	2.5	1500	4403		
19200	BIGB	01	28	1634	N13 E32	01	31.1	2.5	1200	4403		
19200	BIGB	01	29	1646	N14 E18	01	31.0	2.5	1100	4403		
19200	BIGB	01	30	1631	N13 E03	01	30.9	2.5	1200	4403		
19200	BIGB	01	31	1636	N13 W10	01	30.9	2.5	1300	4403		
19200	BIGB	02	01	1703	N14 W20	01	31.2	3.0	1700	4403		
19200	BIGB	02	02	1640	N14 W33	01	31.2	3.0	1700	4403		
19200	BIGB	02	03	1804	N13 W48	01	31.1	3.0	1900	4403		
19200	BIGB	02	04	1714	N13 W60	01	31.2	3.0	2000	4403		
19200	BIGB	02	05	1733	N14 W73	01	31.2	2.5	1800	4403		
19203	BIGB	01	27	1716	S13 E64	02	1.5	1.0	0100			
19203	BIGB	01	28	1634	S14 E45	02	1.1	1.0	0100			
19203	BIGB	01	29	1646	S14 E31	02	1.0	1.5	0200			
19203	BIGB	01	30	1631	S14 E17	02	1.0	2.0	0300			
19203	BIGB	01	31	1636	S14 E03	01	31.9	1.5	0200			

DAILY PLAGE SUMMARIES

JANUARY 1984

Day	Sta	Plage Index	Plage Count	Smallest Plage (Millionths)	Largest Plage of Solar Hemisphere	Total Area	Smallest Intensity	Largest Intensity
01	BIGB	5.8	7	100	3500	5850	1.0	2.5
02	No Observations This Day							
03	BIGB	9.4	5	400	3500	6100	1.0	3.0
04	BIGB	11.5	7	300	3800	7750	1.0	3.0
05	No Observations This Day							
06	No Observations This Day							
07	No Observations This Day							
08	BIGB	16.8	8	300	3800	8900	1.5	3.0
09	BIGB	18.1	10	100	4000	11600	1.5	3.5
10	BIGB	18.6	10	100	4500	12500	1.0	3.5
11	BIGB	20.6	10	100	4700	14600	1.0	3.5
12	BIGB	23.9	8	600	4500	14500	1.0	3.5
13	No Observations This Day							
14	No Observations This Day							
15	BIGB	25.4	6	600	4500	10300	1.0	3.5
16	BIGB	20.0	8	200	4000	10500	1.0	3.0
17	BIGB	21.4	6	600	4000	11100	1.0	3.0
18	BIGB	18.0	5	500	4000	9100	1.5	3.0
19	BIGB	17.9	6	300	3500	9200	1.0	3.5
20	BIGB	15.9	6	1000	3000	10300	2.5	3.5
21	BIGB	14.6	7	600	2600	11700	2.5	3.0
22	BIGB	15.1	7	400	2000	9400	2.0	3.0
23	BIGB	20.5	7	200	3000	12000	2.0	3.0
24	BIGB	27.6	12	100	3200	13400	1.0	4.0
25	BIGB	38.8	13	200	3500	17300	1.0	3.5
26	BIGB	40.9	13	100	3800	17700	1.0	4.0
27	BIGB	46.5	16	100	4200	19700	1.0	4.0
28	BIGB	44.9	15	100	4000	17200	1.0	4.0
29	BIGB	47.6	13	200	4300	19400	1.5	4.0
30	BIGB	44.2	12	200	4400	18500	1.0	4.0
31	BIGB	39.4	14	200	4000	20400	1.0	4.0

DAILY PLAGE AREAS FOR JANUARY 1984



BIG BEAR SOLAR OBSERVATORY
ACTIVE REGION SUMMARY

JANUARY 1984

Region Number	Return Of Region	Rotation Age	First Seen This Rotation	Duration This Rotation
19173	New (vic. of 19147)	1	831229	>04 Days
174	New (vic. of 19147)	1	831229	>07
176	19153, 19154, 19155, 19166, 19167	2	831231	>13
179	New	1	840108	>05
177	New	1	840104	08
184	New	1	840109	01
178	19159	2	840104	13
180	New	1	840108	>10
185	New	1	840109	04
181	New	1	840108	>10
182	19161	2	840108	12
183	New (vic. of 19168)	1	840108	14
186	New	1	840110	13
194	New	1	840122	01
189	New	1	840119	09
187	New	1	840116	12
188	New	1	840116	13
193	New	1	840123	05
202	New	1	840127	01
195	New	1	840124	05
196	New	1	840124	02
205	New	1	840128	04
190	19171	2	840120	13
191	19172	2	840121	13
197	New	1	840124	09
198	New	1	840124	10
192	New (vic. of 19174)	1	840123	13
206	New	1	840128	01
207	New	1	840128	07
199	New	1	840124	14
200	New	1	840125	13

1. No CaK Observations at BBSO on Jan. 2, 5-7, 13, 14.
2. No CaK Plots on Jan. 2, 5-7, 13, 14, 16.
3. No KPNO Magnetograms on Jan. 2, 5-7, 13, 14.
4. Contiguous Plages: 19176/19179, 19183/19186
19187/19189, 19190/19191

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Late
Feb 84

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

FEBRUARY 1984

Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF Sunspot Groups		
		Mo	Day		Mo	Day			#1	#2	#3
19201	BIGB	01	26	1628	N18 E70	02	1.0	2.0	0200		
19201	BIGB	01	27	1716	N20 E60	02	1.3	2.0	0200		
19201	BIGB	01	28	1634	N19 E45	02	1.1	2.0	0200		
19201	BIGB	01	29	1646	N19 E31	02	1.1	2.5	0300		
19201	BIGB	01	30	1631	N19 E17	02	1.0	1.5	0200		
19209	BIGB	01	31	1636	S13 E09	02	1.4	3.0	0200		
19209	BIGB	02	01	1703	S13 W02	02	1.5	1.5	0300		
19209	BIGB	02	02	1640	S13 W15	02	1.6	1.0	0200		
19209	BIGB	02	03	1804	S13 W29	02	1.6	1.5	0300		
19209	BIGB	02	04	1714	S14 W44	02	1.4	1.5	0300		
19209	BIGB	02	05	1733	S14 W58	02	1.3	1.5	0400		
19209	BIGB	02	06	1518	S13 W71	02	1.3	1.5	0200		
19204	BIGB	01	27	1716	S13 E76	02	2.4	2.0	1500	4406	4409
19204	BIGB	01	28	1634	S12 E68	02	2.8	2.0	1700	4406	4409
19204	BIGB	01	29	1646	S11 E60	02	3.2	2.0	2700	4406	4409
19204	BIGB	01	30	1631	S11 E48	02	3.3	2.5	2800	4406	4409
19204	BIGB	01	31	1636	S12 E30	02	2.9	2.5	3200	4406	4409
19204	BIGB	02	01	1703	S14 E20	02	3.2	2.0	3800	4406	4409
19204	BIGB	02	02	1640	S13 E08	02	3.3	2.0	3600	4406	4409
19204	BIGB	02	03	1804	S13 W07	02	3.2	2.0	4000	4406	4409
19204	BIGB	02	04	1714	S15 W18	02	3.3	2.0	3400	4406	4409
19204	BIGB	02	05	1733	S15 W33	02	3.2	2.0	3500	4406	4409
19204	BIGB	02	06	1518	S16 W45	02	3.2	2.0	3100	4406	4409
19204	BIGB	02	07	1508	S15 W55	02	3.5	2.0	3000	4406	4409
19204	BIGB	02	08	1757	S16 W66	02	3.7	2.0	3000	4406	4409
19204	BIGB	02	09	1553	S13 W75	02	4.0	1.0	1700	4406	4409
19210	BIGB	01	31	1636	S14 E80	02	6.7	2.0	1500	4408	
19210	BIGB	02	01	1703	S13 E67	02	6.8	2.5	1300	4408	
19210	BIGB	02	02	1640	S13 E53	02	6.7	2.5	0700	4408	
19210	BIGB	02	03	1804	S11 E38	02	6.6	2.5	1000	4408	
19210	BIGB	02	04	1714	S11 E25	02	6.6	2.5	0700	4408	
19210	BIGB	02	05	1733	S11 E11	02	6.6	2.5	1300	4408	
19210	BIGB	02	06	1518	S11 W02	02	6.5	2.0	1300	4408	
19210	BIGB	02	07	1508	S11 W16	02	6.4	2.5	1000	4408	
19210	BIGB	02	08	1757	S12 W29	02	6.6	2.5	1300	4408	
19210	BIGB	02	09	1553	S13 W40	02	6.6	3.0	3000	4408	
19210	BIGB	02	11	1512	S13 W73	02	6.1	3.0	3000	4408	
19210	BIGB	02	12	1647	S14 W86	02	6.2	2.5	2800	4408	
19211	BIGB	02	01	1703	S16 E79	02	7.7	3.0	1200	4412	
19211	BIGB	02	02	1640	S16 E60	02	7.2	2.5	1000	4412	
19211	BIGB	02	03	1804	S15 E47	02	7.3	2.5	1100	4412	
19211	BIGB	02	04	1714	S15 E34	02	7.3	2.5	1200	4412	
19211	BIGB	02	05	1733	S17 E22	02	7.4	2.5	1200	4412	
19211	BIGB	02	06	1518	S16 E07	02	7.2	2.5	1300	4412	
19211	BIGB	02	07	1508	S17 W05	02	7.2	2.5	1200	4412	
19211	BIGB	02	08	1757	S18 W18	02	7.4	2.5	1100	4412	
19211	BIGB	02	09	1553	S17 W31	02	7.3	2.5	1100	4412	
19211	BIGB	02	11	1512	S16 W57	02	7.3	2.0	1300	4412	
19211	BIGB	02	12	1647	S16 W72	02	7.2	2.0	0800	4412	
19220	BIGB	02	09	1553	S15 W11	02	8.8	2.5	0200	4416	
19220	BIGB	02	11	1512	S15 W44	02	8.3	2.5	0500	4416	
19220	BIGB	02	12	1647	S15 W57	02	8.4	2.5	0800	4416	
19220	BIGB	02	13	1732	S15 W73	02	8.2	2.5	1100	4416	
19213	BIGB	02	03	1804	N10 E75	02	9.4	3.0	0400	4411	
19213	BIGB	02	04	1714	N10 E59	02	9.1	3.0	0600	4411	
19213	BIGB	02	05	1733	N09 E47	02	9.2	3.0	1000	4411	
19213	BIGB	02	06	1518	N09 E34	02	9.2	2.5	0900	4411	
19213	BIGB	02	07	1508	N10 E19	02	9.0	2.5	0900	4411	
19213	BIGB	02	08	1757	N09 E06	02	9.2	2.5	1200	4411	
19213	BIGB	02	09	1553	N07 W06	02	9.2	2.0	0800	4411	
19213	BIGB	02	11	1512	N09 W35	02	9.0	2.5	0900	4411	
19213	BIGB	02	12	1647	N09 W48	02	9.1	2.5	0900	4411	
19213	BIGB	02	13	1732	N09 W62	02	9.1	2.0	0800	4411	
19213	BIGB	02	14	2027	N09 W72	02	9.4	1.0	0600	4411	
19218	BIGB	02	08	1757	S02 E09	02	9.4	1.5	0300		

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

FEBRUARY 1984

Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day		Mo	Day					
19218	BIGB	02	09	1553	S03	W03	02 9.4	1.0	0100		
19212	BIGB	02	03	1804	S08	E77	02 9.5	3.5	3500	4408	4410
19212	BIGB	02	04	1714	S08	E65	02 9.6	3.5	4500	4408	4410
19212	BIGB	02	05	1733	S09	E52	02 9.6	3.0	4700	4408	4410
19212	BIGB	02	06	1518	S10	E39	02 9.6	3.0	4400	4408	4410
19212	BIGB	02	07	1508	S10	E25	02 9.5	3.5	5000	4408	4410
19212	BIGB	02	08	1757	S10	E12	02 9.6	3.5	4800	4408	4410
19212	BIGB	02	09	1553	S13	E03	02 9.9	3.0	4500	4408	4410
19212	BIGB	02	11	1512	S11	W27	02 9.6	3.0	4200	4408	4410
19212	BIGB	02	12	1647	S11	W40	02 9.7	3.0	4000	4408	4410
19212	BIGB	02	13	1732	S12	W54	02 9.7	3.0	3500	4408	4410
19212	BIGB	02	14	2027	S11	W65	02 10.0	3.0	3800	4408	4410
19212	BIGB	02	15	1556	S12	W76	02 9.9	2.5	2200	4408	4410
19212	BIGB	02	16	1544	S11	W83	02 10.4	1.5	0700	4408	4410
19214	BIGB	02	05	1733	S07	E75	02 11.3	1.5	0300	4414	
19214	BIGB	02	06	1518	S09	E65	02 11.5	2.5	0300	4414	
19214	BIGB	02	07	1508	S09	E50	02 11.4	2.5	0800	4414	
19214	BIGB	02	08	1757	S10	E37	02 11.5	2.5	1000	4414	
19214	BIGB	02	09	1553	S11	E23	02 11.4	2.0	0700	4414	
19214	BIGB	02	11	1512	S10	W06	02 11.2	2.5	0600	4414	
19214	BIGB	02	12	1647	S10	W20	02 11.2	3.0	0700	4414	
19214	BIGB	02	13	1732	S10	W34	02 11.2	2.0	0800	4414	
19214	BIGB	02	14	2027	S10	W46	02 11.4	2.0	1100	4414	
19214	BIGB	02	15	1556	S11	W59	02 11.2	2.0	0700	4414	
19214	BIGB	02	16	1544	S10	W69	02 11.5	2.0	0400	4414	
19224	BIGB	02	14	2027	N08	W41	02 11.8	1.0	0200		
19224	BIGB	02	15	1556	N08	W57	02 11.4	1.0	0100		
19215	BIGB	02	05	1733	S12	E81	02 11.8	3.0	1500	4413	
19215	BIGB	02	06	1518	S14	E70	02 11.9	2.5	1600	4413	
19215	BIGB	02	07	1508	S15	E55	02 11.8	2.5	2000	4413	
19215	BIGB	02	08	1757	S14	E44	02 12.1	2.5	3500	4413	
19215	BIGB	02	09	1553	S15	E32	02 12.1	3.5	3200	4413	
19215	BIGB	02	11	1512	S14	E06	02 12.1	3.5	3700	4413	
19215	BIGB	02	12	1647	S14	W07	02 12.2	3.5	4200	4413	
19215	BIGB	02	13	1732	S14	W20	02 12.2	3.5	4800	4413	
19215	BIGB	02	14	2027	S14	W32	02 12.4	3.5	5000	4413	
19215	BIGB	02	15	1556	S14	W46	02 12.2	3.0	5100	4413	
19215	BIGB	02	16	1544	S14	W56	02 12.4	3.0	5000	4413	
19215	BIGB	02	18	1508	S16	W85	02 12.2	2.5	2700	4413	
19217	BIGB	02	07	1508	N13	E67	02 12.7	2.5	1000		
19217	BIGB	02	08	1757	N13	E55	02 12.9	2.0	1000		
19217	BIGB	02	09	1553	N13	E45	02 13.0	2.0	1000		
19217	BIGB	02	11	1512	N13	E14	02 12.7	2.0	0800		
19217	BIGB	02	12	1647	N13	E01	02 12.8	2.0	0800		
19217	BIGB	02	13	1732	N13	W12	02 12.8	2.0	0700		
19217	BIGB	02	14	2027	N14	W25	02 13.0	1.5	0700		
19217	BIGB	02	15	1556	N14	W38	02 12.8	1.5	0700		
19217	BIGB	02	16	1544	N14	W48	02 13.0	1.5	0500		
19216	BIGB	02	06	1518	S17	E84	02 13.0	2.5	0700		
19216	BIGB	02	07	1508	S17	E71	02 13.0	2.5	1200		
19216	BIGB	02	08	1757	S18	E60	02 13.3	2.0	0900		
19216	BIGB	02	09	1553	S19	E47	02 13.2	2.0	0600		
19216	BIGB	02	11	1512	S18	E19	02 13.1	2.0	0700		
19216	BIGB	02	12	1647	S19	E06	02 13.1	2.5	0700		
19216	BIGB	02	13	1732	S19	W08	02 13.1	2.0	0800		
19216	BIGB	02	14	2027	S18	W20	02 13.3	2.5	0600		
19216	BIGB	02	15	1556	S19	W33	02 13.1	2.0	0600		
19216	BIGB	02	16	1544	S18	W44	02 13.3	2.0	0600		
19216	BIGB	02	18	1508	S19	W72	02 13.1	1.5	0600		
19216	BIGB	02	19	1555	S23	W76	02 13.8	1.0	0500		
19219	BIGB	02	08	1757	N14	E72	02 14.2	1.5	0800		
19219	BIGB	02	09	1553	N14	E63	02 14.4	1.5	0500		
19219	BIGB	02	11	1512	N13	E35	02 14.3	2.0	0600		
19219	BIGB	02	12	1647	N13	E22	02 14.3	1.5	0700		

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Late
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CALCIUM PLAGE REGIONS
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FEBRUARY 1984

Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Corrected Area (10-6 Hem1)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day		Mo	Day					Intensity
19219	BIGB	02	13	1732	N14 E06	02 14.2	1.5	0500		
19219	BIGB	02	14	2027	N15 W06	02 14.4	1.0	0800		
19219	BIGB	02	15	1556	N15 W19	02 14.2	1.5	0700		
19219	BIGB	02	16	1544	N15 W30	02 14.4	1.5	0500		
19219	BIGB	02	18	1508	N14 W70	02 13.3	1.0	0500		
19226	BIGB	02	15	1556	N15 W07	02 15.1	2.0	0300		
19226	BIGB	02	16	1544	N14 W18	02 15.3	2.0	0300		
19226	BIGB	02	18	1508	N13 W55	02 14.5	1.0	0100		
19230	BIGB	02	20	1603	S06 W47	02 17.1	1.5	0300	4417	
19230	BIGB	02	21	1635	S06 W61	02 17.1	2.5	0500	4417	
19221	BIGB	02	11	1512	S05 E68	02 16.7	2.5	0800	4417	
19221	BIGB	02	12	1647	S05 E56	02 16.9	2.0	1300	4417	
19221	BIGB	02	13	1732	S06 E44	02 17.0	1.5	1000	4417	
19221	BIGB	02	14	2027	S06 E32	02 17.2	1.5	0900	4417	
19221	BIGB	02	15	1556	S05 E19	02 17.1	1.5	1100	4417	
19221	BIGB	02	16	1544	S05 E08	02 17.2	1.5	1200	4417	
19221	BIGB	02	18	1508	S05 W20	02 17.1	1.5	1100	4417	
19221	BIGB	02	19	1555	S06 W33	02 17.2	1.5	1000	4417	
19221	BIGB	02	20	1603	S09 W49	02 17.0	1.5	0700	4417	
19221	BIGB	02	21	1635	S09 W63	02 17.0	1.5	0600	4417	
19221	BIGB	02	23	1554	S07 W82	02 17.5	1.5	0500	4417	
19228	BIGB	02	18	1508	S24 W14	02 17.5	1.5	0300		
19228	BIGB	02	19	1555	S24 W28	02 17.5	2.0	0200		
19228	BIGB	02	20	1603	S24 W40	02 17.6	1.0	0100		
19222	BIGB	02	12	1647	S05 E74	02 18.2	2.5	1200	4418	
19222	BIGB	02	13	1732	S05 E63	02 18.4	2.5	1700	4418	
19222	BIGB	02	14	2027	S05 E51	02 18.7	3.0	1800	4418	
19222	BIGB	02	15	1556	S05 E39	02 18.6	2.5	1300	4418	
19222	BIGB	02	16	1544	S05 E26	02 18.6	2.5	1400	4418	
19222	BIGB	02	18	1508	S05 W01	02 18.5	2.5	1200	4418	
19222	BIGB	02	19	1555	S06 W19	02 18.2	2.5	1200	4418	
19222	BIGB	02	20	1603	S06 W29	02 18.5	2.5	1500	4418	
19222	BIGB	02	21	1635	S06 W44	02 18.4	2.5	1200	4418	
19222	BIGB	02	23	1554	S07 W70	02 18.4	2.5	1000	4418	
19225	BIGB	02	14	2027	N08 E67	02 19.9	2.0	0500	4419	
19225	BIGB	02	15	1556	N08 E55	02 19.8	2.5	0500	4419	
19225	BIGB	02	16	1544	N07 E40	02 19.6	2.0	0600	4419	
19225	BIGB	02	18	1508	N07 E10	02 19.4	1.5	0400	4419	
19225	BIGB	02	19	1555	N06 W03	02 19.4	2.0	0300	4419	
19225	BIGB	02	20	1603	N06 W14	02 19.6	1.0	0400	4419	
19225	BIGB	02	21	1635	N07 W34	02 19.1	1.0	0400	4419	
19233	BIGB	02	23	1554	N04 W44	02 20.4	1.5	0300		
19223	BIGB	02	14	2027	S20 E73	02 20.4	2.5	1300	4420	
19223	BIGB	02	15	1556	S20 E71	02 21.1	2.5	1200	4420	
19223	BIGB	02	16	1544	S20 E53	02 20.7	2.5	1100	4420	
19223	BIGB	02	18	1508	S21 E23	02 20.4	2.5	1200	4420	
19223	BIGB	02	19	1555	S21 E09	02 20.3	2.5	1200	4420	
19223	BIGB	02	20	1603	S22 W01	02 20.6	2.5	1400	4420	
19223	BIGB	02	21	1635	S21 W15	02 20.5	2.5	1700	4420	
19223	BIGB	02	23	1554	S21 W39	02 20.7	2.5	2400	4420	
19223	BIGB	02	25	1503	S20 W75	02 19.9	3.0	2000	4420	
19223	BIGB	02	26	1706	S20 W81	02 20.5	2.5	2000	4420	
19234	BIGB	02	23	1554	S05 W22	02 22.0	1.5	0200		
19227	BIGB	02	18	1508	N14 E63	02 23.4	4.5	6000	4421	
19227	BIGB	02	19	1555	N14 E51	02 23.5	4.0	7000	4421	
19227	BIGB	02	20	1603	N14 E41	02 23.8	4.0	0300	4421	
19227	BIGB	02	21	1635	N15 E27	02 23.7	3.5	8500	4421	
19227	BIGB	02	23	1554	N15 E03	02 23.9	4.0	9000	4421	
19227	BIGB	02	25	1503	N17 W32	02 23.2	4.0	9000	4421	
19227	BIGB	02	26	1706	N14 W42	02 23.5	4.0	9000	4421	
19227	BIGB	02	27	1508	N14 W53	02 23.6	3.5	9000	4421	

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

FEBRUARY 1984

Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day		Mo	Day					Intensity
19227	BIGB	02	29	1533	N14	W73	02 24.1	3.5	8000	4421
19227	BIGB	03	01	1650	N16	W80	02 24.7	1.0	3000	4421
19229	BIGB	02	19	1555	N12	E75	02 25.3	2.5	2500	4422
19229	BIGB	02	20	1603	N13	E66	02 25.6	3.5	5500	4422
19229	BIGB	02	21	1635	N13	E51	02 25.5	3.0	6000	4422
19229	BIGB	02	23	1554	N13	E26	02 25.6	3.0	5800	4422
19229	BIGB	02	25	1503	N16	W03	02 25.4	3.0	5400	4422
19229	BIGB	02	26	1706	N14	W16	02 25.5	3.0	5700	4422
19229	BIGB	02	27	1508	N13	W27	02 25.6	3.0	5700	4422
19229	BIGB	02	29	1533	N13	W52	02 25.7	3.0	6200	4422
19229	BIGB	03	01	1650	N11	W63	02 26.1	3.0	7000	4422
19229	BIGB	03	02	1649	N13	W74	02 26.2	2.5	5700	4422
19237	BIGB	02	26	1706	S13	W12	02 25.8	2.0	0300	
19237	BIGB	02	27	1508	S14	W24	02 25.8	1.5	0200	
19239	BIGB	02	27	1508	S13	W10	02 26.9	2.0	0300	4426
19239	BIGB	02	29	1533	S13	W39	02 26.7	3.5	1200	4426
19239	BIGB	03	01	1650	S13	W52	02 26.9	3.0	1800	4426
19239	BIGB	03	02	1649	S13	W66	02 26.8	3.0	1500	4426
19239	BIGB	03	03	2002	S12	W78	02 27.0	3.0	1000	4426
19232	BIGB	02	21	1635	N12	E70	02 27.0	1.5	1000	
19232	BIGB	02	23	1554	N13	E47	02 27.2	1.5	0800	
19232	BIGB	02	25	1503	N15	E18	02 27.0	1.0	1000	
19232	BIGB	02	26	1706	N15	E05	02 27.1	1.0	0800	
19232	BIGB	02	27	1508	N13	W06	02 27.2	1.0	0800	
19232	BIGB	02	29	1533	N14	W32	02 27.2	1.0	0700	
19232	BIGB	03	01	1650	N12	W42	02 27.6	1.0	0800	
19232	BIGB	03	02	1649	N12	W55	02 27.6	1.0	0500	
19232	BIGB	03	03	2002	N14	W72	02 27.5	1.0	0200	
19232	BIGB	03	04	1628	N14	W79	02 27.8	1.0	0200	
19236	BIGB	02	23	1554	S13	E67	02 28.7	3.5	3300	4423
19236	BIGB	02	25	1503	S12	E39	02 28.6	3.0	4100	4423
19236	BIGB	02	26	1706	S13	E23	02 28.4	3.0	4000	4423
19236	BIGB	02	27	1508	S13	E10	02 28.4	3.0	3500	4423
19236	BIGB	02	29	1533	S12	W15	02 28.5	3.5	3500	4423
19236	BIGB	03	01	1650	S12	W28	02 28.7	3.5	4200	4423
19236	BIGB	03	02	1649	S13	W41	02 28.7	3.0	3800	4423
19236	BIGB	03	03	2002	S12	W58	02 28.6	3.0	4000	4423
19236	BIGB	03	04	1628	S13	W66	02 28.8	2.5	3500	4423
19236	BIGB	03	05	1501	S14	W75	02 29.0	3.0	2000	4423
19236	BIGB	03	06	1452	S13	W85	02 29.2	1.0	1000	4423
19235	BIGB	02	23	1554	N22	E70	02 29.0	1.0	0400	4424
19235	BIGB	02	25	1503	N25	E44	02 29.0	1.5	0400	4424
19235	BIGB	02	26	1706	N24	E31	02 29.1	1.5	0500	4424
19235	BIGB	02	27	1508	N23	E15	02 28.8	1.0	0500	4424
19235	BIGB	02	29	1533	N23	W10	02 28.9	1.5	0400	4424
19235	BIGB	03	01	1650	N23	W22	02 29.0	1.0	0300	4424
19235	BIGB	03	02	1649	N23	W35	02 29.0	1.0	0300	4424
19235	BIGB	03	03	2002	N25	W50	02 29.0	1.0	0300	4424
19235	BIGB	03	04	1628	N23	W58	02 29.2	1.0	0300	4424
19248	BIGB	03	05	1501	N07	W64	02 29.8	3.0	0300	
19248	BIGB	03	06	1452	N07	W77	02 29.8	3.0	0500	

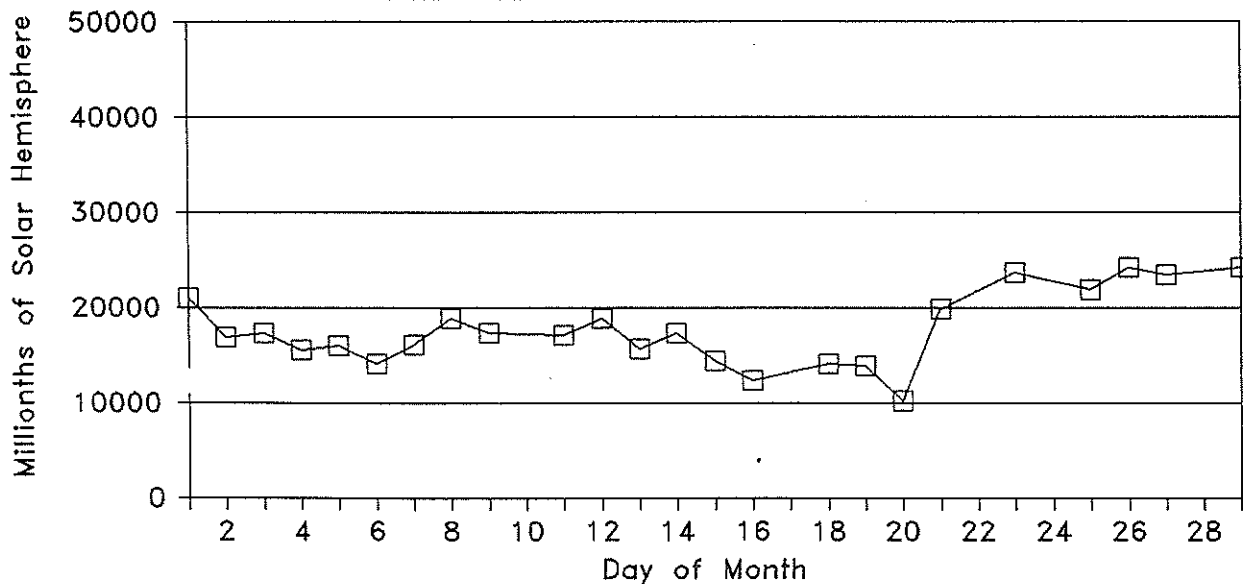
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DAILY PLAGE SUMMARIES

FEBRUARY 1984

Day	Sta	Plage Index	Plage Count	Smallest Plage (Millionths of Solar Hemisphere)	Largest Plage	Total Area	Smallest Intensity	Largest Intensity
01	BIGB	37.4	12	100	4500	21050	1.0	4.0
02	BIGB	28.0	10	200	4400	16900	1.0	4.0
03	BIGB	23.6	10	100	4500	17300	1.0	3.5
04	BIGB	22.0	9	300	4500	15600	1.5	3.5
05	BIGB	23.9	10	300	4700	16000	1.5	3.0
06	BIGB	23.3	10	200	4400	14100	1.0	3.0
07	BIGB	31.7	9	800	5000	16100	2.0	3.5
08	BIGB	37.1	11	300	4800	18900	1.5	3.5
09	BIGB	37.3	12	100	4500	17400	1.0	3.5
10	No Observations This Day							
11	BIGB	35.6	11	500	4200	17100	2.0	3.5
12	BIGB	34.4	12	700	4200	18900	1.5	3.5
13	BIGB	30.2	10	500	4800	15700	1.5	3.5
14	BIGB	29.1	12	200	5000	17300	1.0	3.5
15	BIGB	20.8	12	100	5100	14500	1.0	3.0
16	BIGB	17.9	11	300	5000	12300	1.5	3.0
17	No Observations This Day							
18	BIGB	20.1	10	100	6000	14100	1.0	4.5
19	BIGB	25.8	8	200	7000	13900	1.0	4.0
20	BIGB	15.9	8	100	5500	10200	1.0	4.0
21	BIGB	43.9	8	400	8500	19900	1.0	3.5
22	No Observations This Day							
23	BIGB	60.6	10	200	9000	23700	1.0	4.0
24	No Observations This Day							
25	BIGB	56.3	6	400	9000	21900	1.0	4.0
26	BIGB	55.0	9	300	9000	24300	1.0	4.0
27	BIGB	46.4	10	200	9000	23500	1.0	3.5
28	No Observations This Day							
29	BIGB	39.0	10	400	8000	24200	1.0	3.5

DAILY PLAGE AREAS FOR FEBRUARY 1984



BIG BEAR SOLAR OBSERVATORY
ACTIVE REGION SUMMARY

FEBRUARY 1984

Region Number	Return Of Region	Rotation Age	First Seen This Rotation	Duration This Rotation
19201	New	1	840126	05 Days
203	New	1	840127	05
209	New	1	840131	07
204	19176 & 19179	3	840127	14
210	New	1	840131	13
211	New	1	840201	13
213	New	1	840203	13
220	New	1	840209	06
218	New	1	840208	>02
212	New (vic. of 19182)	1	840203	13
214	New (vic. of 19183)	1	840205	11
224	New	1	840214	02
215	New (vic. of 19183 and 19186)	1	840205	13
216	19186	2	840206	13
217	New	1	840207	10
219	New	1	840208	10
226	New	1	840215	04
230	New (vic. of 19221)	1	840220	03
221	19189	2	840211	12
228	New	1	840218	03
222	19187	2	840212	12
225	New	1	840214	08
233	New	1	840223	03
223	New	1	840213	13
234	New	1	840223	>01
227	19190, 19191 and 19205	3	840218	13
229	19192	2	840219	14
237	New	1	840226	02
232	19200	2	840221	13
239	New	1	840227	06
236	New	1	840223	13
235	New	1	840223	11
248	New	1	840305	02

1. No CaK Observations at BBSO on Feb. 10, 17, 22, 24, 28.
2. No CaK Plots on Feb. 1-3, 6, 9, 10, 16, 17, 22, 24, 28.
3. No KPNO Magnetograms on Feb. 10, 17, 22, 24, 28.
4. Contiguous Plages: 19221/19230

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CALCIUM FLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MARCH 1984

Calcium Flage Region	Sta	Observation Time		Lat CMD	CMP		Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day		Mo	Day					
19247	BIGB	03	04	1628	S07 W20	03	3.2	2.0	0200		
19247	BIGB	03	05	1501	S07 W33	03	3.1	1.0	0300		
19247	BIGB	03	06	1452	S06 W46	03	3.2	1.5	0200		
19240	BIGB	02	26	1706	S13 E81	03	3.8	1.0	1000	4427A	
19240	BIGB	02	27	1508	S16 E70	03	3.9	2.5	1000	4427A	
19240	BIGB	02	29	1533	S15 E41	03	3.7	2.5	0900	4427A	
19240	BIGB	03	01	1650	S15 E29	03	3.9	2.5	1200	4427A	
19240	BIGB	03	02	1649	S15 E15	03	3.8	2.5	1200	4427A	
19240	BIGB	03	03	2002	S15 E01	03	3.9	2.5	1000	4427A	
19240	BIGB	03	04	1628	S14 W11	03	3.8	2.5	0800	4427A	
19240	BIGB	03	05	1501	S14 W23	03	3.9	2.5	1000	4427A	
19240	BIGB	03	06	1452	S13 W36	03	3.9	2.5	1000	4427A	
19240	BIGB	03	07	1447	S13 W50	03	3.8	2.5	0900	4427A	
19238	BIGB	02	26	1706	S06 E75	03	3.3	1.0	1000	4427	
19238	BIGB	02	27	1508	S10 E73	03	4.1	2.5	1000	4427	
19238	BIGB	02	29	1533	S10 E51	03	4.5	2.5	1000	4427	
19238	BIGB	03	01	1650	S10 E38	03	4.5	2.5	1400	4427	
19238	BIGB	03	02	1649	S10 E25	03	4.6	2.5	1100	4427	
19238	BIGB	03	03	2002	S10 E10	03	4.6	2.5	1300	4427	
19238	BIGB	03	04	1628	S11 W03	03	4.5	2.5	0900	4427	
19238	BIGB	03	05	1501	S12 W14	03	4.6	2.5	1200	4427	
19238	BIGB	03	06	1452	S11 W27	03	4.6	2.5	1200	4427	
19238	BIGB	03	07	1447	S11 W41	03	4.5	2.5	0800	4427	
19241	BIGB	02	27	1508	S16 E83	03	4.9	2.5	1500		
19241	BIGB	02	29	1533	S16 E56	03	4.9	2.5	1600		
19241	BIGB	03	01	1650	S16 E44	03	5.0	2.5	2000		
19241	BIGB	03	02	1649	S16 E31	03	5.0	2.5	1500		
19241	BIGB	03	03	2002	S16 E16	03	5.0	2.5	1400		
19241	BIGB	03	04	1628	S17 E04	03	5.0	2.5	1400		
19241	BIGB	03	05	1501	S15 W08	03	5.0	2.5	1500		
19241	BIGB	03	06	1452	S16 W21	03	5.0	2.5	1500		
19241	BIGB	03	07	1447	S16 W35	03	5.0	2.5	1200		
19241	BIGB	03	10	2025	S17 W76	03	5.1	2.5	1200		
19243	BIGB	03	01	1650	N04 E45	03	5.1	2.0	0300	4428	
19243	BIGB	03	02	1649	N04 E32	03	5.1	2.0	0700	4428	
19243	BIGB	03	03	2002	N04 E17	03	5.1	2.0	0900	4428	
19243	BIGB	03	04	1628	N05 E04	03	5.0	2.0	0700	4428	
19243	BIGB	03	05	1501	N05 W06	03	5.2	2.0	0600	4428	
19243	BIGB	03	06	1452	N05 W20	03	5.1	2.0	0400	4428	
19243	BIGB	03	07	1447	N05 W39	03	4.7	2.0	0300	4428	
19250	BIGB	03	07	1447	N05 W20	03	6.1	1.0	0100	4428A	
19250	BIGB	03	10	2025	N03 W67	03	5.8	1.0	0100	4428A	
19242	BIGB	02	29	1533	S17 E80	03	6.7	1.0	0700		
19242	BIGB	03	01	1650	S14 E62	03	6.4	1.5	0600		
19242	BIGB	03	02	1649	S14 E50	03	6.5	1.5	0500		
19242	BIGB	03	03	2002	S14 E35	03	6.5	1.5	0600		
19242	BIGB	03	04	1628	S14 E23	03	6.4	2.0	0400		
19242	BIGB	03	05	1501	S15 E11	03	6.4	1.0	0500		
19242	BIGB	03	06	1452	S15 W01	03	6.5	1.5	0700		
19242	BIGB	03	07	1447	S15 W15	03	6.5	1.5	0500		
19242	BIGB	03	10	2025	S16 W58	03	6.4	2.0	0400		
19242	BIGB	03	11	1827	S16 W70	03	6.4	2.0	0400		
19242	BIGB	03	12	1458	S15 W80	03	6.6	2.0	0300		
19253	BIGB	03	10	2025	S06 W57	03	6.6	2.5	0500	4434	
19253	BIGB	03	11	1827	S06 W70	03	6.5	2.0	0500	4434	
19253	BIGB	03	12	1458	S04 W83	03	6.4	1.0	0200	4434	
19252	BIGB	03	07	1447	N12 W07	03	7.1	1.0	0300		
19252	BIGB	03	10	2025	N13 W53	03	6.8	1.0	0100		
19252	BIGB	03	11	1827	N13 W65	03	6.9	1.0	0100		
19251	BIGB	03	07	1447	S13 W04	03	7.3	2.0	0300	4432	
19251	BIGB	03	10	2025	S17 W45	03	7.4	1.0	0300	4432	
19254	BIGB	03	10	2025	N18 W44	03	7.5	2.5	0100		

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MARCH 1984

Calcium Plage Region	Sta	Observation Time (UT)		Lat CMD	CMP		Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day		Mo	Day					
19254	BIGB	03	11	1827	N20 W61	03	7.1	2.5	0100		
19244	BIGB	03	01	1650	S09 E75	03	7.3	1.5	1000	4430	
19244	BIGB	03	02	1649	S10 E68	03	7.8	1.5	1900	4430	
19244	BIGB	03	03	2002	S10 E53	03	7.8	1.5	1900	4430	
19244	BIGB	03	04	1628	S11 E41	03	7.8	2.5	2500	4430	
19244	BIGB	03	05	1501	S10 E29	03	7.8	2.0	2800	4430	
19244	BIGB	03	06	1452	S10 E17	03	7.9	2.5	2800	4430	
19244	BIGB	03	07	1447	S11 E04	03	7.9	2.5	2300	4430	
19244	BIGB	03	10	2025	S13 W36	03	8.1	2.5	2500	4430	
19244	BIGB	03	11	1827	S13 W48	03	8.1	2.5	2700	4430	
19244	BIGB	03	12	1458	S10 W60	03	8.1	2.5	3000	4430	
19244	BIGB	03	13	2148	S13 W75	03	8.2	2.5	1000	4430	
19244	BIGB	03	14	1759	S13 W80	03	8.7	2.0	0700	4430	
19245	BIGB	03	03	2002	S08 E73	03	9.3	2.0	0500	4431	
19245	BIGB	03	04	1628	S09 E60	03	9.2	2.5	0800	4431	
19245	BIGB	03	05	1501	S09 E50	03	9.4	2.5	1300	4431	
19245	BIGB	03	06	1452	S09 E38	03	9.5	2.5	1300	4431	
19245	BIGB	03	07	1447	S08 E24	03	9.4	2.5	1000	4431	
19245	BIGB	03	10	2025	S11 W20	03	9.3	2.5	1500	4431	
19245	BIGB	03	11	1827	S11 W33	03	9.3	2.5	1600	4431	
19245	BIGB	03	12	1458	S11 W43	03	9.4	2.5	1800	4431	
19245	BIGB	03	13	2148	S11 W60	03	9.4	2.5	1800	4431	
19245	BIGB	03	14	1759	S11 W72	03	9.3	2.5	1500	4431	
19246	BIGB	03	03	2002	S15 E76	03	9.6	2.0	1000	4429	
19246	BIGB	03	04	1628	S15 E70	03	10.0	2.5	1500	4429	
19246	BIGB	03	05	1501	S15 E62	03	10.3	2.5	5000	4429	
19246	BIGB	03	06	1452	S15 E50	03	10.4	2.5	5000	4429	
19246	BIGB	03	07	1447	S15 E38	03	10.5	2.5	5700	4429	
19246	BIGB	03	10	2025	S17 W04	03	10.5	2.5	4000	4429	
19246	BIGB	03	11	1827	S16 W15	03	10.6	2.5	3200	4429	
19246	BIGB	03	12	1458	S15 W26	03	10.6	2.5	3700	4429	
19246	BIGB	03	13	2148	S17 W43	03	10.6	2.5	4000	4429	
19246	BIGB	03	14	1759	S17 W50	03	10.9	2.5	4300	4429	
19246	BIGB	03	15	2359	S18 W68	03	10.8	2.5	4400	4429	
19255	BIGB	03	10	2025	S10 E08	03	11.4	2.5	0300	4433	
19255	BIGB	03	11	1827	S10 W05	03	11.4	2.5	1000	4433	
19255	BIGB	03	12	1458	S08 W17	03	11.3	3.0	1200	4433	
19255	BIGB	03	13	2148	S10 W35	03	11.3	3.0	2000	4433	
19255	BIGB	03	14	1759	S10 W45	03	11.4	3.5	2400	4433	
19255	BIGB	03	15	2359	S11 W62	03	11.3	3.5	2300	4433	
19255	BIGB	03	17	2020	S10 W85	03	11.5	3.5	2000	4433	
19249	BIGB	03	05	1501	N13 E78	03	11.5	1.5	0400		
19249	BIGB	03	06	1452	N14 E63	03	11.4	1.5	0700		
19249	BIGB	03	07	1447	N14 E50	03	11.4	1.0	0500		
19249	BIGB	03	10	2025	N15 E09	03	11.5	1.0	0800		
19249	BIGB	03	11	1827	N15 W03	03	11.5	1.0	0600		
19249	BIGB	03	12	1458	N14 W16	03	11.4	1.0	0500		
19249	BIGB	03	13	2148	N12 W33	03	11.4	1.0	0400		
19249	BIGB	03	14	1759	N12 W45	03	11.3	1.0	0500		
19266	BIGB	03	14	1759	S16 W34	03	12.2	2.5	0100		
19266	BIGB	03	15	2359	S18 W51	03	12.1	2.5	0300		
19266	BIGB	03	17	2020	S17 W79	03	11.8	3.0	0600		
19257	BIGB	03	11	1827	S18 E20	03	13.3	2.5	0300	4436	
19257	BIGB	03	12	1458	S17 E07	03	13.1	2.5	0600	4436	
19257	BIGB	03	13	2148	S18 W10	03	13.1	2.5	0600	4436	
19257	BIGB	03	14	1759	S18 W20	03	13.2	2.5	1000	4436	
19257	BIGB	03	15	2359	S19 W37	03	13.2	2.5	1200	4436	
19257	BIGB	03	17	2020	S19 W62	03	13.1	2.5	1200	4436	
19257	BIGB	03	18	1734	S19 W75	03	13.0	2.0	1200	4436	
19257	BIGB	03	19	1647	S18 W88	03	13.0	2.0	0700	4436	
19256	BIGB	03	10	2025	S05 E51	03	14.7	1.0	0400	4438	
19256	BIGB	03	11	1827	S05 E38	03	14.6	1.0	0300	4438	
19256	BIGB	03	12	1458	S04 E25	03	14.5	2.5	0500	4438	

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CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MARCH 1984

Calcium Plage Region	Sta	Observation Time Mo Day (UT)		Lat CMD	CMP Mo Day Intensity		Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
19256	BIGB	03	13	2148	S04 E08	03 14.5	2.5	0700		4438
19256	BIGB	03	14	1759	S04 W02	03 14.6	3.0	1000		4438
19256	BIGB	03	15	2359	S05 W21	03 14.4	3.5	1500		4438
19256	BIGB	03	17	2020	S04 W46	03 14.4	3.0	2700		4438
19256	BIGB	03	18	1734	S04 W59	03 14.3	3.0	3800		4438
19256	BIGB	03	19	1647	S04 W71	03 14.4	3.5	3400		4438
19256	BIGB	03	20	1655	S05 W83	03 14.5	3.0	2500		4438
19265	BIGB	03	14	1759	S22 E16	03 16.0	1.0	0300		4444
19265	BIGB	03	15	2359	S20 W01	03 15.9	1.0	0100		4444
19265	BIGB	03	17	2020	S22 W23	03 16.1	1.0	0200		4444
19259	BIGB	03	13	2148	N04 E39	03 16.8	1.5	0300		4444A
19259	BIGB	03	14	1759	N04 E28	03 16.8	1.5	0400		4444A
19259	BIGB	03	15	2359	N05 E11	03 16.8	1.5	0200		4444A
19259	BIGB	03	17	2020	N05 W18	03 16.5	1.5	0200		4444A
19259	BIGB	03	18	1734	N05 W30	03 16.5	1.0	0200		4444A
19271	BIGB	03	18	1734	N06 W17	03 17.4	2.0	0300		4445
19271	BIGB	03	19	1647	N06 W30	03 17.4	2.5	0300		4445
19271	BIGB	03	20	1655	N07 W43	03 17.5	3.0	0600		4445
19271	BIGB	03	21	1657	N07 W57	03 17.4	3.0	1200		4445
19271	BIGB	03	22	1902	N08 W76	03 17.1	3.0	1500		4445
19260	BIGB	03	13	2148	N14 E49	03 17.6	1.0	0300		
19260	BIGB	03	14	1759	N14 E38	03 17.6	1.0	0200		
19261	BIGB	03	13	2148	N14 E66	03 18.9	1.0	0500		4440
19261	BIGB	03	14	1759	N14 E55	03 18.9	2.0	1000		4440
19261	BIGB	03	15	2359	N13 E35	03 18.6	2.0	1300		4440
19261	BIGB	03	17	2020	N13 E09	03 18.5	1.5	1200		4440
19261	BIGB	03	18	1734	N13 W02	03 18.6	1.5	1000		4440
19261	BIGB	03	19	1647	N13 W15	03 18.6	1.5	1000		4440
19261	BIGB	03	20	1655	N15 W28	03 18.6	2.0	0900		4440
19261	BIGB	03	21	1657	N15 W42	03 18.5	2.0	0800		4440
19261	BIGB	03	22	1902	N14 W58	03 18.4	1.5	0600		4440
19258	BIGB	03	12	1458	S23 E80	03 18.8	2.0	0500		4437
19258	BIGB	03	13	2148	S22 E67	03 19.0	2.0	1500		4437
19258	BIGB	03	14	1759	S23 E55	03 19.0	2.0	1600		4437
19258	BIGB	03	15	2359	S22 E40	03 19.1	2.0	1400		4437
19258	BIGB	03	17	2020	S21 E15	03 19.0	2.0	1000		4437
19258	BIGB	03	18	1734	S21 E03	03 19.0	2.0	1200		4437
19258	BIGB	03	19	1647	S21 W09	03 19.0	3.0	1300		4437
19258	BIGB	03	20	1655	S21 W22	03 19.0	3.0	1300		4437
19258	BIGB	03	21	1657	S21 W35	03 19.0	3.0	1300		4437
19258	BIGB	03	22	1902	S23 W52	03 18.8	2.5	1300		4437
19272	BIGB	03	18	1734	N01 E06	03 19.2	1.0	0100		
19262	BIGB	03	13	2148	S04 E73	03 19.4	2.0	1100		
19262	BIGB	03	14	1759	S04 E62	03 19.4	1.0	0700		
19262	BIGB	03	15	2359	S05 E46	03 19.4	1.0	0500		
19262	BIGB	03	17	2020	S03 E21	03 19.4	1.5	0700		
19262	BIGB	03	18	1734	S04 E09	03 19.4	1.5	0800		
19262	BIGB	03	19	1647	S05 W02	03 19.5	1.0	0500		
19262	BIGB	03	20	1655	S05 W14	03 19.6	1.0	0400		
19262	BIGB	03	21	1657	S05 W29	03 19.5	1.0	0500		
19262	BIGB	03	22	1902	S06 W46	03 19.3	1.0	0500		
19263	BIGB	03	13	2148	S23 E86	03 20.5	1.5	0500		4437
19263	BIGB	03	14	1759	S25 E65	03 19.8	2.0	0300		4437A
19263	BIGB	03	15	2359	S25 E50	03 19.9	2.0	0500		4437A
19263	BIGB	03	17	2020	S25 E24	03 19.7	2.0	0500		4437A
19263	BIGB	03	18	1734	S25 E12	03 19.7	2.0	0400		4437A
19263	BIGB	03	19	1647	S25 W01	03 19.6	2.0	0400		4437A
19263	BIGB	03	20	1655	S24 W14	03 19.6	1.0	0400		4437A
19263	BIGB	03	21	1657	S25 W26	03 19.7	1.0	0400		4437A
19263	BIGB	03	22	1902	S25 W41	03 19.6	1.0	0400		4437A
19273	BIGB	03	19	1647	N05 E07	03 20.2	2.5	0400		4448

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MARCH 1984

Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day (UT)		Mo	Day					
19273	BIGB	03	20	1655	N06 W07	03	20.2	2.0	0300	4448	
19273	BIGB	03	21	1657	N06 W22	03	20.0	1.5	0300	4448	
19273	BIGB	03	22	1902	N07 W36	03	20.1	1.5	0300	4448	
19264	BIGB	03	14	1759	N10 E79	03	20.7	2.5	2500	4441	
19264	BIGB	03	15	2359	N13 E66	03	21.0	2.5	4000	4441	
19264	BIGB	03	17	2020	N13 E38	03	20.7	2.5	3800	4441	
19264	BIGB	03	18	1734	N13 E27	03	20.8	2.5	3700	4441	
19264	BIGB	03	19	1647	N14 E14	03	20.7	2.5	3700	4441	
19264	BIGB	03	20	1655	N13 E01	03	20.8	2.5	3500	4441	
19264	BIGB	03	21	1657	N14 W12	03	20.8	2.5	2700	4441	
19264	BIGB	03	22	1902	N14 W29	03	20.6	2.5	2500	4441	
19264	BIGB	03	25	2033	N13 W75	03	20.2	2.5	2400	4441	
19267	BIGB	03	17	2020	N14 E58	03	22.2	3.0	6000	4443	
19267	BIGB	03	18	1734	N13 E47	03	22.3	3.0	6800	4443	
19267	BIGB	03	19	1647	N13 E34	03	22.3	3.0	7000	4443	
19267	BIGB	03	20	1655	N13 E22	03	22.4	3.0	7000	4443	
19267	BIGB	03	21	1657	N14 E08	03	22.3	3.0	7000	4443	
19267	BIGB	03	22	1902	N13 W09	03	22.1	3.0	7500	4443	
19267	BIGB	03	25	2033	N15 W48	03	22.2	2.5	7400	4443	
19267	BIGB	03	27	2055	N14 W71	03	22.5	2.5	6200	4443	
19267	BIGB	03	28	1646	N13 W78	03	22.8	2.5	3000	4443	
19277	BIGB	03	21	1657	N08 E22	03	23.3	3.0	1000	4450	
19277	BIGB	03	22	1902	N09 E09	03	23.5	2.5	1300	4450	
19277	BIGB	03	25	2033	N09 W35	03	23.2	2.5	0900	4450	
19277	BIGB	03	27	2055	N08 W59	03	23.4	2.0	0400	4450	
19277	BIGB	03	28	1646	N08 W70	03	23.4	2.0	0400	4450	
19279	BIGB	03	25	2033	S13 W30	03	23.6	3.0	0900	4451	
19279	BIGB	03	27	2055	S13 W58	03	23.5	3.5	1200	4451	
19279	BIGB	03	28	1646	S13 W69	03	23.5	3.0	1300	4451	
19279	BIGB	03	29	1648	S13 W82	03	23.5	3.5	1500	4451	
19269	BIGB	03	18	1734	N17 E70	03	24.0	2.0	2500	4446	
19269	BIGB	03	19	1647	N20 E57	03	24.0	3.5	2100	4446	
19269	BIGB	03	20	1655	N21 E47	03	24.3	2.5	2000	4446	
19269	BIGB	03	21	1657	N21 E33	03	24.2	2.5	1500	4446	
19269	BIGB	03	22	1902	N21 E15	03	23.9	2.5	1500	4446	
19269	BIGB	03	25	2033	N19 W26	03	23.9	2.5	1000	4446	
19269	BIGB	03	27	2055	N18 W51	03	24.0	2.5	1200	4446	
19269	BIGB	03	28	1646	N18 W62	03	24.0	2.5	1300	4446	
19269	BIGB	03	29	1648	N17 W74	03	24.1	2.5	1200	4446	
19280	BIGB	03	25	2033	S19 W24	03	24.0	1.0	0100		
19268	BIGB	03	17	2020	N07 E72	03	23.2	1.5	0700	4446	
19268	BIGB	03	18	1734	N08 E64	03	23.5	2.0	1700	4446	
19268	BIGB	03	19	1647	N10 E58	03	24.0	2.0	1800	4446	
19268	BIGB	03	20	1655	N10 E46	03	24.2	2.5	2000	4446	
19268	BIGB	03	21	1657	N10 E37	03	24.5	2.5	1400	4446	
19268	BIGB	03	22	1902	N13 E22	03	24.4	2.5	1500	4446	
19268	BIGB	03	25	2033	N12 W19	03	24.4	2.5	1600	4446	
19268	BIGB	03	27	2055	N11 W44	03	24.6	2.5	1500	4446	
19268	BIGB	03	28	1646	N11 W55	03	24.6	2.5	1500	4446	
19268	BIGB	03	29	1648	N12 W69	03	24.5	2.5	1500	4446	
19270	BIGB	03	18	1734	S16 E78	03	24.6	1.5	0900	4447	
19270	BIGB	03	19	1647	S14 E68	03	24.8	2.0	0600	4447	
19270	BIGB	03	20	1655	S13 E56	03	24.9	2.0	0800	4447	
19270	BIGB	03	21	1657	S14 E43	03	24.9	2.0	0900	4447	
19270	BIGB	03	22	1902	S12 E26	03	24.7	2.0	1000	4447	
19270	BIGB	03	25	2033	S13 W16	03	24.6	1.0	0800	4447	
19270	BIGB	03	27	2055	S16 W43	03	24.6	1.0	0900	4447	
19270	BIGB	03	28	1646	S15 W54	03	24.6	1.0	0600	4447	
19270	BIGB	03	29	1648	S13 W66	03	24.7	1.0	0400	4447	
19278	BIGB	03	22	1902	N21 E29	03	25.0	1.5	0300		
19274	BIGB	03	19	1647	S12 E86	03	26.2	2.5	2000	4449	

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Late
Mar 84

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MARCH 1984

Calcium Plage Region	Sta	Observation Time (UT)		Lat CMD	CMP		Intensity	Corrected Area (10-6 Heml)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day		Mo	Day					
19274	BIGB	03	20	1655	S11 E70	03 26.0	3.5	3000	4449		
19274	BIGB	03	21	1657	S11 E57	03 26.0	3.0	3300	4449		
19274	BIGB	03	22	1902	S11 E43	03 26.0	3.0	3700	4449		
19274	BIGB	03	25	2033	S12 E01	03 25.9	3.0	3500	4449		
19274	BIGB	03	27	2055	S13 W26	03 25.9	2.5	3400	4449		
19274	BIGB	03	28	1646	S13 W37	03 25.9	2.5	3500	4449		
19274	BIGB	03	29	1648	S13 W52	03 25.8	2.5	3500	4449		
19274	BIGB	03	31	1525	S13 W76	03 25.9	2.5	3500	4449		
19276	BIGB	03	21	1657	S17 E71	03 27.1	1.5	1000	4453		
19276	BIGB	03	22	1902	S16 E59	03 27.3	1.5	0700	4453		
19276	BIGB	03	25	2033	S14 E16	03 27.1	1.5	1100	4453		
19276	BIGB	03	27	2055	S17 W11	03 27.0	1.5	0900	4453		
19276	BIGB	03	28	1646	S16 W22	03 27.0	1.5	0800	4453		
19276	BIGB	03	29	1648	S17 W37	03 26.9	1.5	0600	4453		
19281	BIGB	03	25	2033	N20 E19	03 27.3	1.5	0100	4452		
19281	BIGB	03	27	2055	N18 W09	03 27.2	1.0	0300	4452		
19281	BIGB	03	28	1646	N17 W20	03 27.2	1.0	0200	4452		
19281	BIGB	03	29	1648	N19 W33	03 27.2	1.0	0200	4452		
19294	BIGB	03	29	1648	N09 W26	03 27.7	2.0	0100	4459		
19294	BIGB	03	31	1525	N08 W53	03 27.7	2.0	0300	4459		
19294	BIGB	04	01	1922	N09 W70	03 27.6	1.0	0300	4459		
19294	BIGB	04	02	1730	N09 W81	03 27.7	1.0	0200	4459		
19282	BIGB	03	25	2033	S01 E27	03 27.9	1.0	0200			
19282	BIGB	03	27	2055	S01 E01	03 27.9	1.0	0100			
19290	BIGB	03	28	1646	N20 W02	03 28.5	2.0	0200			
19290	BIGB	03	29	1648	N20 W15	03 28.5	1.5	0200			
19290	BIGB	03	31	1525	N15 W45	03 28.2	1.0	0100			
19290	BIGB	04	01	1922	N15 W60	03 28.4	1.0	0100			
19290	BIGB	04	02	1730	N15 W71	03 28.4	1.0	0200			
19286	BIGB	03	27	2055	S11 E15	03 29.0	1.0	0100	4456		
19286	BIGB	03	28	1646	S10 E01	03 28.8	2.5	0500	4456		
19286	BIGB	03	29	1648	S10 W13	03 28.7	3.0	0800	4456		
19286	BIGB	03	31	1525	S11 W39	03 28.7	2.5	1300	4456		
19286	BIGB	04	01	1922	S10 W56	03 28.7	3.5	1800	4456		
19286	BIGB	04	02	1730	S11 W68	03 28.7	4.0	2000	4456		
19286	BIGB	04	03	1656	S11 W80	03 28.8	2.0	1700	4456		
19283	BIGB	03	25	2033	S12 E60	03 30.4	2.0	0700	4454		
19283	BIGB	03	27	2055	S13 E32	03 30.3	1.5	1200	4454		
19283	BIGB	03	28	1646	S13 E21	03 30.3	1.5	1000	4454		
19283	BIGB	03	29	1648	S13 E08	03 30.3	1.5	0900	4454		
19283	BIGB	03	31	1525	S13 W18	03 30.3	1.0	0800	4454		
19283	BIGB	04	01	1922	S14 W32	03 30.5	1.0	1000	4454		
19283	BIGB	04	02	1730	S14 W44	03 30.5	1.5	0600	4454		
19283	BIGB	04	03	1656	S14 W57	03 30.5	1.0	0600	4454		
19283	BIGB	04	04	1718	S14 W71	03 30.4	1.0	0400	4454		
19283	BIGB	04	05	1650	S16 W82	03 30.6	1.0	0200	4454		
19287	BIGB	03	27	2055	S07 E42	03 31.0	1.0	0300			
19287	BIGB	03	28	1646	S07 E31	03 31.0	1.0	0300			
19287	BIGB	03	29	1648	S07 E16	03 30.9	1.0	0200			
19285	BIGB	03	25	2033	S09 E78	03 31.7	3.5	0400	4454		
19285	BIGB	03	27	2055	S10 E51	03 31.7	2.0	2000	4454		
19285	BIGB	03	28	1646	S10 E39	03 31.6	2.5	1600	4454		
19285	BIGB	03	29	1648	S10 E25	03 31.6	2.5	1500	4454		
19285	BIGB	03	31	1525	S10 W02	03 31.5	2.5	1300	4454		
19285	BIGB	04	01	1922	S10 W18	03 31.4	2.5	1500	4454		
19285	BIGB	04	02	1730	S10 W31	03 31.4	2.5	1500	4454		
19285	BIGB	04	03	1656	S11 W43	03 31.5	3.0	1600	4454		
19285	BIGB	04	04	1718	S11 W56	03 31.5	3.0	1500	4454		
19285	BIGB	04	05	1650	S10 W70	03 31.4	3.0	1400	4454		
19284	BIGB	03	25	2033	S18 E73	03 31.4	1.0	0700			
19284	BIGB	03	27	2055	S20 E49	03 31.6	1.0	1200			

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

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Late
Mar 84

MARCH 1984

Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF Sunspot Groups					
		Mo	Day (UT)		Mo	Day		Intensity	#1	#2	#3		
19284	BIGB	03	28	1646	S20	E38	03	31.6	1.0	1100			
19284	BIGB	03	29	1648	S19	E26	03	31.7	1.5	1300			
19284	BIGB	03	31	1525	S20	E02	03	31.8	1.0	1300			
19284	BIGB	04	01	1922	S19	W13	03	31.8	1.0	1500			
19284	BIGB	04	02	1730	S19	W25	03	31.8	1.0	1300			
19284	BIGB	04	03	1656	S19	W38	03	31.8	1.0	1000			
19284	BIGB	04	04	1718	S19	W50	03	31.9	1.5	0800			
19284	BIGB	04	05	1650	S19	W63	03	31.9	1.0	0800			
19291	BIGB	03	28	1646	S34	E39	03	31.8	1.0	0100			

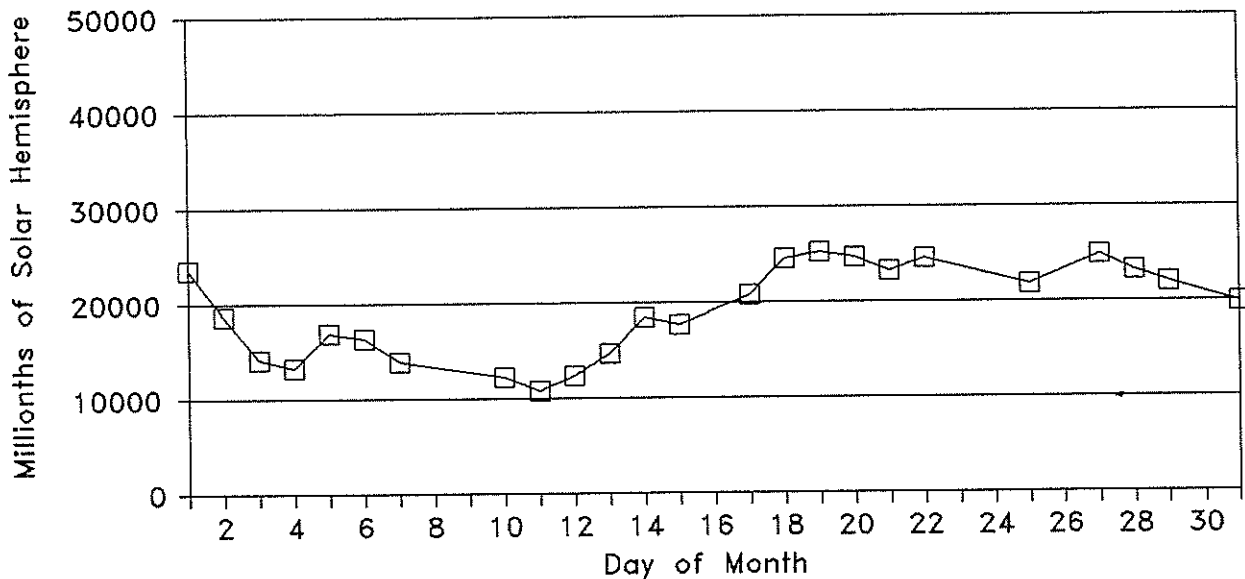
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Late
Mar 84

DAILY PLAGE SUMMARIES

MARCH 1984

Day	Sta	Plage Index	Plage Count	Smallest Plage (Millionths)	Largest Plage of Solar Hemisphere	Total Area	Smallest Intensity	Largest Intensity
01	BIGB	35.6	12	300	7000	23600	1.0	3.5
02	BIGB	24.7	11	300	5700	18700	1.0	3.0
03	BIGB	20.2	12	200	4000	14100	1.0	3.0
04	BIGB	20.0	12	200	3500	13200	1.0	2.5
05	BIGB	24.5	12	300	5000	16900	1.0	3.0
06	BIGB	27.3	12	200	5000	16300	1.0	3.0
07	BIGB	26.2	12	100	5700	13900	1.0	2.5
08	No Observations This Day							
09	No Observations This Day							
10	BIGB	21.7	13	100	4000	12200	1.0	2.5
11	BIGB	19.6	11	100	3200	10800	1.0	2.5
12	BIGB	21.3	10	200	3700	12300	1.0	3.0
13	BIGB	20.1	13	300	4000	14700	1.0	3.0
14	BIGB	24.3	16	100	4300	18500	1.0	3.5
15	BIGB	23.7	12	100	4400	17700	1.0	3.5
16	No Observations This Day							
17	BIGB	29.5	13	200	6000	20800	1.0	3.5
18	BIGB	36.9	14	100	6800	24600	1.0	3.0
19	BIGB	42.8	14	300	7000	25200	1.0	3.5
20	BIGB	46.1	13	300	7000	24700	1.0	3.5
21	BIGB	48.8	14	300	7000	23300	1.0	3.0
22	BIGB	51.4	15	300	7500	24600	1.0	3.0
23	No Observations This Day							
24	No Observations This Day							
25	BIGB	36.9	15	100	7400	21800	1.0	3.5
26	No Observations This Day							
27	BIGB	28.6	17	100	6200	24900	1.0	3.5
28	BIGB	30.3	20	100	3500	23300	1.0	3.5
29	BIGB	31.8	19	100	3500	22000	1.0	3.5
30	No Observations This Day							
31	BIGB	32.0	15	100	3500	19950	1.0	3.5

DAILY PLAGE AREAS FOR MARCH 1984



BIG BEAR SOLAR OBSERVATORY
ACTIVE REGION SUMMARY

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Late
Mar 84

MARCH 1984

Region Number	Return Of Region	Rotation Age	First Seen This Rotation	Duration This Rotation
19247	New	1	840304	03 Days
240	19210	2	840226	14
238	New In upper portion of 19210 19211	1	840226	14
241	19211	2	840227	14
243	New	1	840301	10
250	New	1	840301	11
242	19220	2	840229	13
253	New	1	840310	02
252	New	1	840307	05
251	New	1	840307	01
254	New	1	840310	01
244	19212	2	840301	14
245	19214	2	840303	11
246	19215 and 19216	3	840303	14
249	19217	2	840305	10
255	New	1	840310	08
266	New	1	840314	05
257	New	1	840311	09
256	New	1	840310	11
265	New	1	840314	03
259	New	1	840313	07
260	New	1	840313	02
271	New	1	840318	05
261	New	1	840313	09
258	19223	2	840312	10
262	New	1	840313	09
263	New	1	840313	13
272	New	1	840318	01
273	New	1	840319	03
264	Leading polarity of 19227	4	840314	12
267	19227	4	840317	12
277	New	1	840321	09
279	New	1	840325	05
269	19229	3	840318	12
280	New	1	840325	01
268	19229	3	840317	13
270	19239	2	840318	12
278	New	1	840322	01
274	19236	2	840319	13
276	New	1	840321	09
281	New	1	840325	07
294	New	1	840329	05
282	New	1	840325	03
290	New	1	840328	06
286	New	1	840327	08
283	19240	3	840325	12
287	New	1	840327	03
285	19238	2	840325	12
291	New	1	840328	02

1. No CaK Observations at BBSO on March 8, 9, 16, 23, 24, 26, 30
2. No CaK Plots on March 4-9, 12, 14, 16, 23, 24, 26, 30.
3. No KPNO Magnetograms on March 8, 9, 16, 23, 24, 26, 30.
4. Contiguous Plages: 19238/19240/19241, 19244/19251, 19245/19246, 19258/19263, 19268/19269.

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Late
Apr 84

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

APRIL 1984

Calcium Plage Region	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
19292	BIGB	03 28 1646	N13 E49	04 1.4	3.0	0200	4457		
19292	BIGB	03 29 1648	N14 E35	04 1.3	1.5	0400	4457		
19292	BIGB	03 31 1525	N14 E09	04 1.3	1.0	0300	4457		
19292	BIGB	04 01 1922	N15 W07	04 1.3	1.0	0400	4457		
19292	BIGB	04 02 1730	N14 W19	04 1.3	1.0	0300	4457		
19288	BIGB	03 27 2055	S13 E67	04 1.9	2.0	2000	4455		
19288	BIGB	03 28 1646	S13 E54	04 1.8	3.5	2300	4455		
19288	BIGB	03 29 1648	S13 E41	04 1.8	3.5	2000	4455		
19288	BIGB	03 31 1525	S13 E13	04 1.6	3.0	1700	4455		
19288	BIGB	04 01 1922	S13 W01	04 1.7	3.5	2000	4455		
19288	BIGB	04 02 1730	S13 W14	04 1.7	3.0	2000	4455		
19288	BIGB	04 03 1656	S13 W26	04 1.7	3.0	2000	4455		
19288	BIGB	04 04 1718	S13 W39	04 1.8	3.0	1800	4455		
19288	BIGB	04 05 1650	S13 W53	04 1.7	3.5	1800	4455		
19289	BIGB	03 27 2055	S16 E77	04 2.7	3.5	2000	4455		
19289	BIGB	03 28 1646	S14 E67	04 2.8	3.5	2700	4455		
19289	BIGB	03 29 1648	S15 E55	04 2.9	3.5	2500	4455		
19289	BIGB	03 31 1525	S14 E27	04 2.7	3.0	2200	4455		
19289	BIGB	04 01 1922	S15 E12	04 2.7	3.5	2500	4455		
19289	BIGB	04 02 1730	S15 W00	04 2.7	3.0	2700	4455		
19289	BIGB	04 03 1656	S14 W13	04 2.7	3.0	2700	4455		
19289	BIGB	04 04 1718	S14 W26	04 2.7	3.0	2700	4455		
19289	BIGB	04 05 1650	S15 W39	04 2.7	3.0	3000	4455		
19289	BIGB	04 08 2325	S15 W79	04 3.0	3.0	2300	4455		
19293	BIGB	03 28 1646	N19 E76	04 3.5	3.5	0700	4458		
19293	BIGB	03 29 1648	N20 E63	04 3.5	3.5	2600	4458		
19293	BIGB	03 31 1525	N20 E39	04 3.6	3.5	3200	4458		
19293	BIGB	04 01 1922	N21 E23	04 3.6	2.5	2500	4458		
19293	BIGB	04 02 1730	N20 E10	04 3.5	2.5	2000	4458		
19293	BIGB	04 03 1656	N20 W02	04 3.5	2.5	2200	4458		
19293	BIGB	04 04 1718	N20 W15	04 3.6	2.5	2300	4458		
19293	BIGB	04 05 1650	N20 W28	04 3.5	2.5	2000	4458		
19293	BIGB	04 08 2325	N21 W70	04 3.6	2.0	1400	4458		
19293	BIGB	04 09 1835	N19 W75	04 4.0	1.0	0600	4458		
19296	BIGB	03 31 1525	S16 E39	04 3.6	1.0	0150	4461	4458A	
19296	BIGB	04 01 1922	S16 E24	04 3.6	1.0	0300	4461	4458A	
19296	BIGB	04 02 1730	S16 E11	04 3.6	1.0	0300	4461	4458A	
19296	BIGB	04 03 1656	S16 W01	04 3.6	2.0	0300	4461	4458A	
19296	BIGB	04 04 1718	S16 W15	04 3.6	1.0	0200	4461	4458A	
19295	BIGB	03 29 1648	S15 E78	04 4.6	1.5	0600			
19295	BIGB	03 31 1525	S14 E54	04 4.7	2.0	0800			
19295	BIGB	04 01 1922	S12 E38	04 4.7	1.5	1000			
19295	BIGB	04 02 1730	S12 E25	04 4.6	1.5	0600			
19295	BIGB	04 03 1656	S12 E12	04 4.6	1.5	0500			
19295	BIGB	04 04 1718	S13 W01	04 4.6	1.5	0600			
19295	BIGB	04 05 1650	S12 W14	04 4.6	1.5	0600			
19295	BIGB	04 08 2325	S19 W56	04 4.7	1.0	0400			
19295	BIGB	04 09 1835	S19 W66	04 4.7	1.0	0400			
19297	BIGB	03 31 1525	S07 E64	04 5.4	2.5	2000	4460		
19297	BIGB	04 01 1922	S09 E49	04 5.5	3.5	2500	4460		
19297	BIGB	04 02 1730	S09 E36	04 5.4	3.0	1800	4460		
19297	BIGB	04 03 1656	S08 E23	04 5.4	2.5	2000	4460		
19297	BIGB	04 04 1718	S08 E10	04 5.5	2.5	2000	4460		
19297	BIGB	04 05 1650	S08 W02	04 5.5	2.5	1800	4460		
19297	BIGB	04 08 2325	S10 W47	04 5.4	2.5	2000	4460		
19297	BIGB	04 09 1835	S10 W59	04 5.3	2.5	2100	4460		
19297	BIGB	04 10 2042	S10 W73	04 5.4	2.5	2200	4460		
19297	BIGB	04 11 1645	S12 W79	04 5.7	1.5	0800	4460		
19306	BIGB	04 10 2042	N03 W68	04 5.8	1.0	0300			
19306	BIGB	04 11 1645	N03 W79	04 5.8	1.0	0100			
19298	BIGB	03 31 1525	S19 E70	04 6.0	1.0	1000			
19298	BIGB	04 01 1922	S19 E57	04 6.1	1.5	1700			
19298	BIGB	04 02 1730	S19 E46	04 6.2	1.5	1600			

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

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Calcium Plage Region	Sta	Observation Time		Lat	CMD	CMP		Corrected Area (10-6 Hem1)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day			Mo	Day					Intensity
19298	B1GB	04	03	1656	S19 E34	04	6.3	1.5	1500		
19298	B1GB	04	04	1718	S19 E22	04	6.4	1.5	1600		
19298	B1GB	04	05	1650	S20 E10	04	6.5	1.5	2200		
19298	B1GB	04	08	2325	S21 W28	04	6.8	2.0	2200		
19298	B1GB	04	09	1835	S21 W38	04	6.9	2.0	1600		
19298	B1GB	04	10	2042	S21 W51	04	6.9	2.0	1500		
19298	B1GB	04	11	1645	S22 W57	04	7.3	2.0	1100		
19298	B1GB	04	12	1647	S22 W70	04	7.3	2.0	0800		
19305	B1GB	04	08	2325	N06 W27	04	6.9	2.5	0200		
19305	B1GB	04	09	1835	N05 W38	04	6.9	2.0	0500		
19305	B1GB	04	10	2042	N05 W53	04	6.9	1.5	0400		
19305	B1GB	04	11	1645	N05 W63	04	7.0	1.0	0200		
19305	B1GB	04	12	1647	N05 W76	04	7.0	1.0	0100		
19299	B1GB	04	01	1922	S11 E71	04	7.1	2.0	2000	4462	4462A 4464
19299	B1GB	04	02	1730	S11 E57	04	7.0	2.0	1500	4462	4462A 4464
19299	B1GB	04	03	1656	S11 E45	04	7.1	2.5	1300	4462	4462A 4464
19299	B1GB	04	04	1718	S11 E32	04	7.1	2.0	1200	4462	4462A 4464
19299	B1GB	04	05	1650	S11 E20	04	7.2	2.0	1100	4462	4462A 4464
19299	B1GB	04	08	2325	S11 W25	04	7.1	2.0	0800	4462	4462A 4464
19299	B1GB	04	09	1835	S11 W36	04	7.1	2.0	1000	4462	4462A 4464
19299	B1GB	04	10	2042	S13 W49	04	7.2	2.0	1000	4462	4462A 4464
19299	B1GB	04	11	1645	S13 W61	04	7.1	2.0	0900	4462	4462A 4464
19299	B1GB	04	12	1647	S13 W71	04	7.3	2.0	0700	4462	4462A 4464
19300	B1GB	04	01	1922	S19 E86	04	8.4	1.0	1800		
19300	B1GB	04	02	1730	S19 E74	04	8.4	2.0	1100		
19300	B1GB	04	03	1656	S18 E65	04	8.6	2.5	1300		
19300	B1GB	04	04	1718	S18 E50	04	8.5	2.0	1100		
19300	B1GB	04	05	1650	S18 E38	04	8.6	2.0	0700		
19300	B1GB	04	08	2325	S19 W08	04	8.4	2.0	0800		
19300	B1GB	04	09	1835	S18 W18	04	8.4	2.0	0700		
19300	B1GB	04	10	2042	S18 W32	04	8.4	2.0	0600		
19300	B1GB	04	11	1645	S18 W42	04	8.5	2.0	0500		
19300	B1GB	04	12	1647	S17 W56	04	8.4	2.0	0500		
19301	B1GB	04	03	1656	S06 E75	04	9.3	2.0	1200		
19301	B1GB	04	04	1718	S05 E64	04	9.5	2.0	1500		
19301	B1GB	04	05	1650	S05 E55	04	9.8	2.0	1400		
19301	B1GB	04	08	2325	S05 E11	04	9.8	1.5	1900		
19301	B1GB	04	09	1835	S05 E01	04	9.8	1.5	1600		
19301	B1GB	04	10	2042	S05 W12	04	10.0	1.5	1700		
19301	B1GB	04	11	1645	S05 W22	04	10.0	1.5	1800		
19301	B1GB	04	12	1647	S04 W35	04	10.1	1.5	1700		
19301	B1GB	04	14	1944	S05 W62	04	10.2	1.5	0800		
19301	B1GB	04	15	2100	S06 W71	04	10.6	1.0	0800		
19309	B1GB	04	11	1645	S04 W01	04	11.6	1.0	0100		
19309	B1GB	04	12	1647	S04 W14	04	11.6	1.0	0200		
19302	B1GB	04	05	1650	N03 E76	04	11.4	1.0	0700	4465	
19302	B1GB	04	08	2325	N03 E36	04	11.7	1.0	0600	4465	
19302	B1GB	04	09	1835	N03 E25	04	11.6	1.0	0700	4465	
19302	B1GB	04	10	2042	N02 E12	04	11.7	1.0	0700	4465	
19302	B1GB	04	11	1645	N03 E02	04	11.8	1.0	0600	4465	
19302	B1GB	04	12	1647	N03 W12	04	11.8	1.0	0700	4465	
19302	B1GB	04	14	1944	N03 W40	04	11.8	1.5	0600	4465	
19302	B1GB	04	15	2100	N02 W54	04	11.8	1.0	0400	4465	
19302	B1GB	04	16	2044	N02 W67	04	11.8	1.0	0400	4465	
19304	B1GB	04	08	2325	N07 E56	04	13.2	1.0	0800		
19304	B1GB	04	09	1835	N07 E44	04	13.1	1.0	0500		
19304	B1GB	04	10	2042	N07 E32	04	13.2	1.0	0700		
19304	B1GB	04	11	1645	N07 E21	04	13.3	1.0	0600		
19304	B1GB	04	12	1647	N07 E08	04	13.3	1.0	0600		
19304	B1GB	04	14	1944	N07 W19	04	13.4	1.0	0600		
19304	B1GB	04	15	2100	N07 W34	04	13.3	1.5	0400		
19304	B1GB	04	16	2044	N06 W46	04	13.4	1.0	0400		
19310	B1GB	04	12	1647	S19 E36	04	15.4	1.0	0300	4470	

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CALCIUM PLAGE REGIONS
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Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3	
		Mo	Day		UT	Mo					Day	Intensity
19310	BIGB	04	14	1944	S19	E08	04 15.4	1.0	0300	4470	
19310	BIGB	04	15	2100	S20	W06	04 15.4	2.5	0400	4470	
19310	BIGB	04	16	2044	S22	W17	04 15.5	3.0	0500	4470	
19310	BIGB	04	18	1752	S22	W46	04 15.2	2.5	0500	4470	
19310	BIGB	04	21	2213	S27	W74	04 16.1	1.0	0200	4470	
19317	BIGB	04	18	1752	N03	W45	04 15.4	3.5	0700		
19317	BIGB	04	21	2213	N02	W80	04 15.9	3.5	1000		
19308	BIGB	04	10	2042	N11	E77	04 16.6	3.0	0700	4468	4471
19308	BIGB	04	11	1645	N11	E66	04 16.7	3.5	2700	4468	4471
19308	BIGB	04	12	1647	N09	E49	04 16.4	3.0	3000	4468	4471
19308	BIGB	04	14	1944	N08	E15	04 15.9	3.0	3500	4468	4471
19308	BIGB	04	15	2100	N08	E03	04 16.1	3.0	3300	4468	4471
19308	BIGB	04	16	2044	N08	W10	04 16.1	3.5	3000	4468	4471
19308	BIGB	04	18	1752	N07	W34	04 16.2	3.5	3000	4468	4471
19308	BIGB	04	21	2213	N08	W80	04 15.9	3.0	3000	4468	4471
19307	BIGB	04	10	2042	N16	E76	04 16.6	1.0	0600	4468A	
19307	BIGB	04	11	1645	N16	E65	04 16.6	1.0	1500	4468A	
19307	BIGB	04	12	1647	N16	E66	04 17.7	1.5	3000	4468A	
19307	BIGB	04	14	1944	N17	E45	04 18.2	2.0	4800	4468A	
19307	BIGB	04	15	2100	N18	E30	04 18.1	2.5	5000	4468A	
19307	BIGB	04	16	2044	N18	E19	04 18.3	2.5	5000	4468A	
19307	BIGB	04	18	1752	N17	W05	04 18.4	2.5	5400	4468A	
19307	BIGB	04	21	2213	N15	W45	04 18.5	2.5	5500	4468A	
19307	BIGB	04	23	1603	N16	W61	04 19.0	2.0	2700	4468A	
19307	BIGB	04	24	1707	N19	W70	04 19.4	1.5	2500	4468A	
19312	BIGB	04	14	1944	S11	E67	04 19.9	1.0	0500	4473	
19312	BIGB	04	15	2100	S11	E52	04 19.8	1.0	0400	4473	
19312	BIGB	04	16	2044	S11	E39	04 19.8	2.0	0600	4473	
19312	BIGB	04	18	1752	S13	E10	04 19.5	1.0	0700	4473	
19312	BIGB	04	21	2213	S16	W35	04 19.3	1.0	0600	4473	
19312	BIGB	04	23	1603	S17	W58	04 19.3	1.0	0400	4473	
19312	BIGB	04	24	1707	S17	W73	04 19.2	1.0	0300	4473	
19314	BIGB	04	14	1944	S18	E80	04 20.9	3.0	1500	4469	
19314	BIGB	04	15	2100	S17	E65	04 20.8	3.0	2000	4469	
19314	BIGB	04	16	2044	S17	E52	04 20.8	3.0	2600	4469	
19314	BIGB	04	18	1752	S17	E25	04 20.6	3.0	2700	4469	
19314	BIGB	04	21	2213	S17	W18	04 20.5	3.0	1700	4469	
19314	BIGB	04	23	1603	S18	W40	04 20.6	3.0	2000	4469	
19314	BIGB	04	24	1707	S17	W53	04 20.7	3.0	2300	4469	
19313	BIGB	04	14	1944	N12	E73	04 20.3	1.0	0500		
19313	BIGB	04	15	2100	N13	E64	04 20.7	1.0	0900		
19313	BIGB	04	16	2044	N14	E51	04 20.7	1.5	0700		
19313	BIGB	04	18	1752	N12	E22	04 20.4	1.5	1000		
19313	BIGB	04	21	2213	N13	W18	04 20.6	1.5	1000		
19313	BIGB	04	23	1603	N09	W41	04 20.6	1.5	1000		
19313	BIGB	04	24	1707	N10	W55	04 20.6	1.5	1000		
19318	BIGB	04	21	2213	N06	W00	04 21.9	1.0	0100		
19315	BIGB	04	15	2100	S15	E83	04 22.1	2.0	1000		
19315	BIGB	04	16	2044	S15	E71	04 22.2	2.5	1400		
19315	BIGB	04	18	1752	S14	E41	04 21.8	2.5	1200		
19315	BIGB	04	21	2213	S13	E01	04 22.0	2.5	1500		
19315	BIGB	04	23	1603	S16	W19	04 22.2	2.5	1200		
19315	BIGB	04	24	1707	S16	W34	04 22.1	2.0	1200		
19316	BIGB	04	18	1752	S13	E70	04 24.0	2.5	2000	4472	4472A
19316	BIGB	04	21	2213	S11	E31	04 24.2	3.0	2800	4472	4472A
19316	BIGB	04	23	1603	S12	E07	04 24.2	2.0	2500	4472	4472A
19316	BIGB	04	24	1707	S12	W05	04 24.3	2.0	2200	4472	4472A
19316	BIGB	04	29	1871	S13	W71	04 24.4	2.5	0900	4472	4472A
19316	BIGB	04	30	1601	S12	W80	04 24.6	2.0	0700	4472	4472A
19319	BIGB	04	21	2213	S12	E74	04 27.5	3.5	1400	4474	
19319	BIGB	04	23	1603	S11	E49	04 27.3	3.0	2500	4474	

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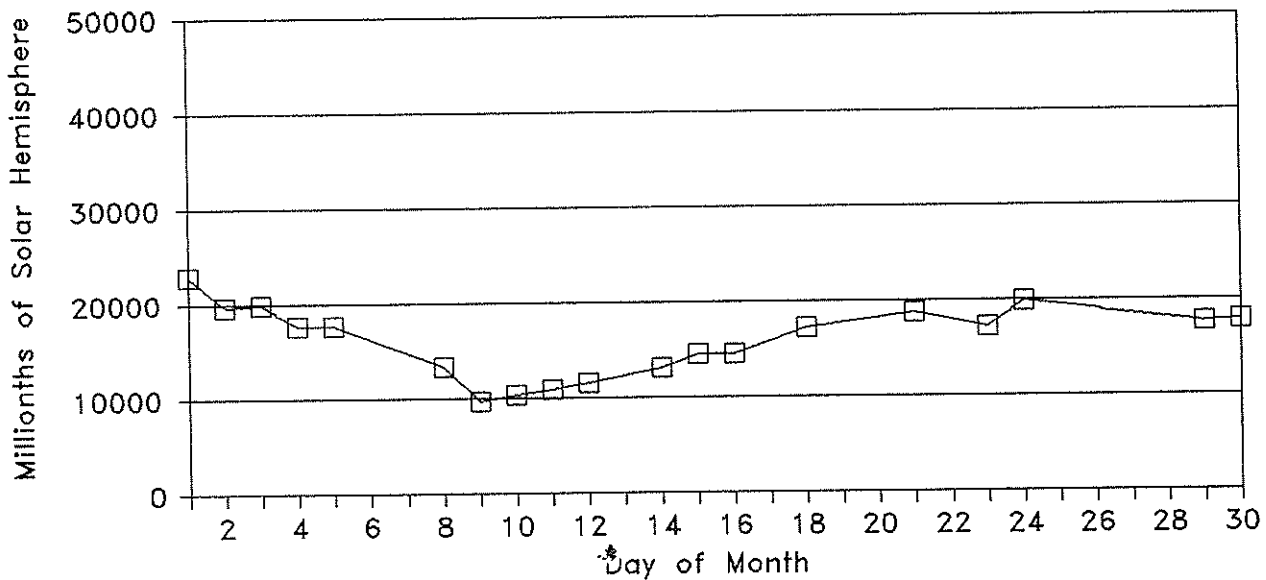
Calcium Plage Region	Sta	Mo	Day	Observation Time (UT)	Lat CMD	CMP Mo Day	Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
19319	BIGB	04	24	1707	S11 E35	04 27.3	3.5	3000	4474		
19319	BIGB	04	29	1871	S15 W31	04 27.4	4.0	4000	4474		
19319	BIGB	04	30	1601	S15 W42	04 27.5	4.0	4000	4474		
19319	BIGB	05	01	1750	S15 W58	04 27.4	3.5	4500	4474		
19319	BIGB	05	02	1656	S16 W70	04 27.5	3.5	4700	4474		
19320	BIGB	04	23	1603	S11 E67	04 28.7	5.0	4000	4474		
19320	BIGB	04	24	1707	S10 E53	04 28.7	5.0	5000	4474		
19320	BIGB	04	29	1871	S11 W15	04 28.7	4.5	5000	4474		
19320	BIGB	04	30	1601	S11 W27	04 28.6	4.0	5400	4474		
19320	BIGB	05	01	1750	S11 W42	04 28.7	3.5	6000	4474		
19320	BIGB	05	02	1656	S10 W54	04 28.7	3.5	6000	4474		
19320	BIGB	05	04	1451	S10 W77	04 28.9	3.0	5500	4474		
19320	BIGB	05	05	1349	S10 W82	04 29.5	1.0	1000	4474		
19322	BIGB	04	23	1603	N20 E75	04 29.4	1.0	0200	4475		
19322	BIGB	04	24	1707	N19 E61	04 29.4	1.5	0200	4475		
19322	BIGB	04	29	1871	N20 W06	04 29.3	1.0	0300	4475		
19322	BIGB	04	30	1601	N20 W18	04 29.3	1.0	0300	4475		
19322	BIGB	05	01	1750	N19 W32	04 29.4	1.0	0200	4475		
19322	BIGB	05	02	1656	N19 W44	04 29.4	1.0	0200	4475		
19321	BIGB	04	23	1603	S20 E75	04 29.4	3.5	0700	4474		
19321	BIGB	04	24	1707	S16 E64	04 29.6	4.0	0700	4474		
19321	BIGB	04	29	1871	S20 W05	04 29.4	3.0	0700	4474		
19321	BIGB	04	30	1601	S19 W17	04 29.4	3.5	0500	4474		
19321	BIGB	05	01	1750	S18 W30	04 29.5	3.0	1100	4474		
19321	BIGB	05	02	1656	S18 W43	04 29.5	3.0	1200	4474		
19321	BIGB	05	04	1451	S17 W74	04 29.1	3.0	1000	4474		
19321	BIGB	05	05	1349	S17 W85	04 29.2	1.0	0700	4474		
19323	BIGB	04	24	1707	S11 E76	04 30.4	3.5	1000	4476		
19323	BIGB	04	29	1871	S12 E08	04 30.4	4.0	2000	4476		
19323	BIGB	04	30	1601	S12 W04	04 30.4	3.5	2400	4476		
19323	BIGB	05	01	1750	S13 W18	04 30.4	3.0	4000	4476		
19323	BIGB	05	02	1656	S13 W30	04 30.4	3.0	4600	4476		
19323	BIGB	05	04	1451	S13 W56	04 30.4	3.0	4800	4476		
19323	BIGB	05	05	1349	S13 W70	04 30.3	3.0	4700	4476		
19323	BIGB	05	06	1617	S14 W80	04 30.6	1.5	2800	4476		
19324	BIGB	04	24	1707	N21 E73	04 30.3	1.5	0500			
19324	BIGB	04	29	1871	N20 E13	04 30.8	1.0	1000			
19324	BIGB	04	30	1601	N20 E01	04 30.7	1.0	0800			
19324	BIGB	05	01	1750	N20 W13	04 30.7	1.0	0900			
19324	BIGB	05	02	1656	N20 W25	04 30.8	1.0	0900			
19324	BIGB	05	04	1451	N21 W48	04 30.9	1.0	0600			
19324	BIGB	05	05	1349	N21 W65	04 30.6	1.0	0800			
19324	BIGB	05	06	1617	N21 W74	05 1.0	1.0	0500			

DAILY PLAGE SUMMARIES

APRIL 1984

Day	Sta	Plage Index	Plage Count	Smallest Plage (Millionths)	Largest Plage of Solar Hemisphere)	Total Area	Smallest Intensity	Largest Intensity
01	BIGB	39.4	16	100	2500	22900	1.0	3.5
02	BIGB	35.0	16	200	2700	19700	1.0	4.0
03	BIGB	34.5	14	300	2700	19900	1.0	3.0
04	BIGB	32.0	13	200	2700	17700	1.0	3.0
05	BIGB	29.1	13	200	3000	17700	1.0	3.5
06	No Observations This Day							
07	No Observations This Day							
08	BIGB	16.0	11	200	2300	13400	1.0	3.0
09	BIGB	12.1	10	400	2100	9700	1.0	2.5
10	BIGB	10.1	11	300	2200	10400	1.0	3.0
11	BIGB	10.7	12	100	2700	10900	1.0	3.5
12	BIGB	12.5	11	100	3000	11600	1.0	3.0
13	No Observations This Day							
14	BIGB	19.3	9	300	4800	13100	1.0	3.0
15	BIGB	24.9	10	400	5000	14600	1.0	3.0
16	BIGB	30.2	9	400	5000	14600	1.0	3.5
17	No Observations This Day							
18	BIGB	36.6	9	500	5400	17200	1.0	3.5
19	No Observations This Day							
20	No Observations This Day							
21	BIGB	29.4	11	100	5500	18800	1.0	3.5
22	No Observations This Day							
23	BIGB	28.0	10	200	4000	17200	1.0	5.0
24	BIGB	36.9	12	200	5000	19900	1.0	5.0
25	No Observations This Day							
26	No Observations This Day							
27	No Observations This Day							
28	No Observations This Day							
29	BIGB	48.3	11	100	5000	17700	1.0	4.5
30	BIGB	43.6	11	100	5400	17900	1.0	4.0

DAILY PLAGE AREAS FOR APRIL 1984



BIG BEAR SOLAR OBSERVATORY
ACTIVE REGION SUMMARY

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Late
Apr 84

APRIL 1984

Region Number	Return Of Region	Rotation Age	First Seen This Rotation	Duration This Rotation
19284	19241	3	840325	>12 Days
292	New	1	840328	07
288	New	1	840327	>10
289	New	1	840327	13
293	New	1	840328	12
296	New	1	840331	05
295	New, in trailing portion of 19244	1	840329	12
297	19245	3	840331	>12
306	New	1	840410	02
298	19246	4	840331	>13
299	19255	2	840401	>12
305	New	1	840408	05
300	19266	2	840401	>12
301	19256	2	840403	13
309	New	1	840411	01
302	New	1	840405	>12
304	19271	2	840408	>09
317	New	1	840418	04
310	New	1	840412	10
308	New	1	840410	>12
307	19267, 19364 and 19269	5	840410	14
312	19279	2	840414	>11
313	19268	4	840414	>11
314	New (vic. of 19270)	1	840414	>11
315	19274	3	840415	>10
318	New	1	840421	>01
316	New in leading portion of 19286	1	840418	13
319	New (vic. of 19285)	1	840421	12
320	New (vic. of 19288)	1	840423	13
321	19289	2	840423	13
322	New	1	840423	10
323	New	1	840424	13
324	19293	2	840424	13

1. No CaK Observations at BBSO on April 6, 7, 12, 13, 17, 19, 20, 22, 25-28.
2. No CaK Plots on April 6, 7, 12, 13, 17, 19, 20, 22, 25-28.
3. No KPNO Magnetograms on April 6, 7, 12, 13, 17, 19, 20, 22, 25-28.
4. Contiguous Plages: 19288/19289, 19314/19315, 19319/19320/19321.

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Late
May 84

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MAY 1984

Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day		Mo	Day					
19326	BIGB	05	01	1750	S16	W07	05 1.2	1.0	0100	4477	
19326	BIGB	05	02	1656	S16	W20	05 1.2	2.5	0300	4477	
19326	BIGB	05	04	1451	S16	W45	05 1.2	1.0	0200	4477	
19327	BIGB	04	29	1871	S09	E30	05 2.0	1.5	0700		
19327	BIGB	04	30	1601	S09	E17	05 1.9	1.5	0500		
19327	BIGB	05	01	1750	S10	E04	05 2.0	1.0	0900		
19327	BIGB	05	02	1656	S09	W09	05 2.0	1.0	1000		
19327	BIGB	05	04	1451	S09	W34	05 2.1	1.0	1200		
19327	BIGB	05	05	1349	S10	W47	05 2.0	1.0	1300		
19327	BIGB	05	06	1617	S10	W61	05 2.1	1.0	1300		
19327	BIGB	05	07	1429	S10	W75	05 2.0	1.0	1000		
19334	BIGB	05	05	1349	N06	W46	05 2.1	1.0	0125		
19334	BIGB	05	06	1617	N05	W60	05 2.2	1.0	0200		
19325	BIGB	04	29	1871	N09	E39	05 2.7	1.0	0100		
19325	BIGB	04	30	1601	N11	E28	05 2.8	1.0	0100		
19325	BIGB	05	01	1750	N08	E13	05 2.7	1.0	0300		
19331	BIGB	05	04	1451	N08	W18	05 3.3	1.0	0200		
19331	BIGB	05	05	1349	N08	W32	05 3.2	1.0	0200		
19331	BIGB	05	06	1617	N08	W47	05 3.1	1.0	0150		
19328	BIGB	04	29	1871	S18	E57	05 4.1	1.0	2500	4482	
19328	BIGB	04	30	1601	S18	E48	05 4.3	1.0	2400	4482	
19328	BIGB	05	01	1750	S18	E35	05 4.4	1.0	2800	4482	
19328	BIGB	05	02	1656	S18	E24	05 4.5	1.0	3000	4482	
19328	BIGB	05	04	1451	S17	W04	05 4.3	1.0	2800	4482	
19328	BIGB	05	05	1349	S16	W17	05 4.3	1.0	2800	4482	
19328	BIGB	05	06	1617	S16	W30	05 4.4	1.0	3000	4482	
19328	BIGB	05	07	1429	S16	W40	05 4.6	1.0	3000	4482	
19328	BIGB	05	09	1453	S15	W64	05 4.8	1.0	2400	4482	
19328	BIGB	05	10	1533	S15	W75	05 5.0	1.0	1000	4482	
19337	BIGB	05	09	1453	S13	W61	05 5.0	1.0	0500	4484	
19337	BIGB	05	10	1533	S13	W71	05 5.3	4.0	1300	4484	
19337	BIGB	05	11	1436	S16	W76	05 5.8	3.0	1300	4484	
19330	BIGB	05	02	1656	N20	E38	05 5.6	1.0	0100		
19329	BIGB	04	29	1871	S09	E82	05 5.9	1.0	0500		
19329	BIGB	04	30	1601	S07	E73	05 6.1	1.0	0800		
19329	BIGB	05	01	1750	S07	E63	05 6.5	1.5	1500		
19329	BIGB	05	02	1656	S08	E51	05 6.5	1.5	1700		
19329	BIGB	05	04	1451	S08	E21	05 6.2	1.0	1400		
19329	BIGB	05	05	1349	S08	E08	05 6.2	1.0	1400		
19329	BIGB	05	06	1617	S08	W07	05 6.1	1.0	1500		
19329	BIGB	05	07	1429	S08	W19	05 6.2	1.0	1700		
19329	BIGB	05	09	1453	S08	W46	05 6.2	1.0	1700		
19329	BIGB	05	10	1533	S08	W59	05 6.2	1.0	1600		
19329	BIGB	05	11	1436	S08	W68	05 6.5	1.0	1600		
19332	BIGB	05	04	1451	S20	E45	05 8.1	2.5	0300	4478	
19332	BIGB	05	05	1349	S20	E31	05 7.9	1.5	0250	4478	
19332	BIGB	05	06	1617	S20	E16	05 7.9	1.0	0250	4478	
19333	BIGB	05	04	1451	S11	E50	05 8.4	2.5	0300	4479	
19333	BIGB	05	05	1349	S12	E35	05 8.2	1.0	0350	4479	
19333	BIGB	05	06	1617	S11	E22	05 8.3	2.0	0350	4479	
19333	BIGB	05	07	1429	S12	E10	05 8.3	1.0	0175	4479	
19333	BIGB	05	09	1453	S13	W15	05 8.5	1.0	0350	4479	
19338	BIGB	05	09	1453	S06	E04	05 9.9	3.0	0500	4483	
19338	BIGB	05	10	1533	S06	W09	05 10.0	2.5	0700	4483	
19338	BIGB	05	11	1436	S07	W29	05 9.4	2.5	0700	4483	
19338	BIGB	05	12	2218	S07	W42	05 9.8	2.5	0600	4483	
19338	BIGB	05	13	1946	S08	W56	05 9.6	2.0	0650	4483	
19338	BIGB	05	14	2147	S08	W70	05 9.6	2.5	0700	4483	
19335	BIGB	05	05	1349	N03	E85	05 11.9	2.0	0700	4480	

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MAY 1984

Calcium Plage Region	Sta	Observation Time		Lat	CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day			Mo	Day					Intensity
19349	BIGB	05	22	1707	S09 E20	05	24.2	3.5	8000	4492	
19349	BIGB	05	23	1635	S09 E07	05	24.2	3.5	8000	4492	
19349	BIGB	05	24	1659	S08 W07	05	24.2	3.5	8000	4492	
19349	BIGB	05	25	1608	S09 W15	05	24.5	3.5	8000	4492	
19349	BIGB	05	26	0052	S08 W23	05	24.3	3.5	8000	4492	
19349	BIGB	05	27	1744	S08 W46	05	24.3	3.0	8000	4492	
19349	BIGB	05	28	1756	S11 W58	05	24.4	3.0	8000	4492	
19349	BIGB	05	29	1341	S10 W69	05	24.4	2.5	8000	4492	
19349	BIGB	05	30	1756	S10 W80	05	24.7	2.5	7000	4492	
19350	BIGB	05	18	1804	N04 E76	05	24.4	1.5	0700	4497	
19350	BIGB	05	19	1912	N05 E74	05	25.3	2.5	2700	4497	
19350	BIGB	05	20	2010	N07 E56	05	25.0	2.5	2300	4497	
19350	BIGB	05	21	1641	N07 E47	05	25.2	3.0	2000	4497	
19350	BIGB	05	22	1707	N06 E35	05	25.3	1.5	1600	4497	
19350	BIGB	05	23	1635	N06 E17	05	25.0	1.5	1800	4497	
19350	BIGB	05	24	1659	N07 E05	05	25.1	1.0	1850	4497	
19350	BIGB	05	25	1608	N07 W07	05	25.1	1.5	1600	4497	
19350	BIGB	05	26	0052	N06 W14	05	25.0	1.5	2750	4497	
19350	BIGB	05	27	1744	N06 W36	05	25.0	1.0	2750	4497	
19350	BIGB	05	28	1756	N05 W49	05	25.1	1.0	2650	4497	
19350	BIGB	05	29	1341	N07 W59	05	25.1	1.0	2650	4497	
19350	BIGB	05	30	1756	N06 W75	05	25.1	1.0	2000	4497	
19351	BIGB	05	19	1912	S13 E79	05	25.8	3.0	4500	4494	
19351	BIGB	05	20	2010	S11 E64	05	25.6	3.5	5400	4494	
19351	BIGB	05	21	1641	S11 E54	05	25.7	3.5	5400	4494	
19351	BIGB	05	22	1707	S10 E41	05	25.8	3.0	5400	4494	
19351	BIGB	05	23	1635	S11 E28	05	25.8	3.0	6000	4494	
19351	BIGB	05	24	1659	S10 E15	05	25.8	3.0	6800	4494	
19351	BIGB	05	25	1608	S10 E06	05	26.1	3.0	6800	4494	
19351	BIGB	05	26	0052	S11 W03	05	25.8	3.0	6800	4494	
19351	BIGB	05	27	1744	S10 W25	05	25.9	3.0	6800	4494	
19351	BIGB	05	28	1756	S11 W38	05	25.9	3.0	6800	4494	
19351	BIGB	05	29	1341	S10 W48	05	26.0	2.5	6800	4494	
19351	BIGB	05	30	1756	S11 W63	05	26.0	2.5	6800	4494	
19351	BIGB	05	31	1544	S10 W75	05	26.0	2.5	6800	4494	
19351	BIGB	06	01	1607	S07 W80	05	26.7	2.0	0500	4494	
19354	BIGB	05	25	1608	N03 E05	05	26.0	1.5	0300	4498	
19354	BIGB	05	26	0052	N01 W03	05	25.8	1.5	0600	4498	
19354	BIGB	05	27	1744	N00 W24	05	25.9	1.0	0400	4498	
19354	BIGB	05	28	1756	N01 W38	05	25.9	1.0	0200	4498	
19353	BIGB	05	20	2010	S14 E80	05	26.9	2.5	2000	4496	
19353	BIGB	05	21	1641	S14 E74	05	27.3	2.5	3400	4496	
19353	BIGB	05	22	1707	S15 E64	05	27.5	2.5	3400	4496	
19353	BIGB	05	23	1635	S14 E49	05	27.4	2.5	3000	4496	
19353	BIGB	05	24	1659	S13 E37	05	27.5	2.0	3000	4496	
19353	BIGB	05	25	1608	S13 E24	05	27.5	2.0	2800	4496	
19353	BIGB	05	26	0052	S13 E17	05	27.3	2.0	3000	4496	
19353	BIGB	05	27	1744	S13 W04	05	27.4	2.0	3000	4496	
19353	BIGB	05	28	1756	S14 W19	05	27.3	2.5	3000	4496	
19353	BIGB	05	29	1341	S14 W28	05	27.4	2.5	3000	4496	
19353	BIGB	05	30	1756	S14 W43	05	27.5	2.0	3000	4496	
19353	BIGB	05	31	1544	S14 W55	05	27.5	2.0	2800	4496	
19353	BIGB	06	01	1607	S15 W69	05	27.5	2.0	2700	4496	
19353	BIGB	06	02	1400	S15 W79	05	27.7	2.0	2400	4496	
19355	BIGB	05	26	0052	S20 E33	05	28.6	1.5	0500	4499	
19355	BIGB	05	27	1744	S20 E11	05	28.6	1.5	0650	4499	
19355	BIGB	05	28	1756	S20 W02	05	28.6	2.0	0700	4499	
19355	BIGB	05	29	1341	S17 W14	05	28.5	1.5	0600	4499	
19355	BIGB	05	30	1756	S17 W29	05	28.5	1.0	0500	4499	
19355	BIGB	05	31	1544	S17 W42	05	28.5	1.0	0500	4499	
19355	BIGB	06	01	1607	S18 W55	05	28.6	1.0	0750	4499	
19355	BIGB	06	02	1400	S18 W65	05	28.7	1.0	0525	4499	
19360	BIGB	05	28	1756	S09 E11	05	29.6	1.0	0200	4503	
19360	BIGB	05	29	1341	S07 W00	05	29.6	2.5	0800	4503	
19360	BIGB	05	30	1756	S08 W15	05	29.6	2.5	1300	4503	

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Late
May 84

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MAY 1984

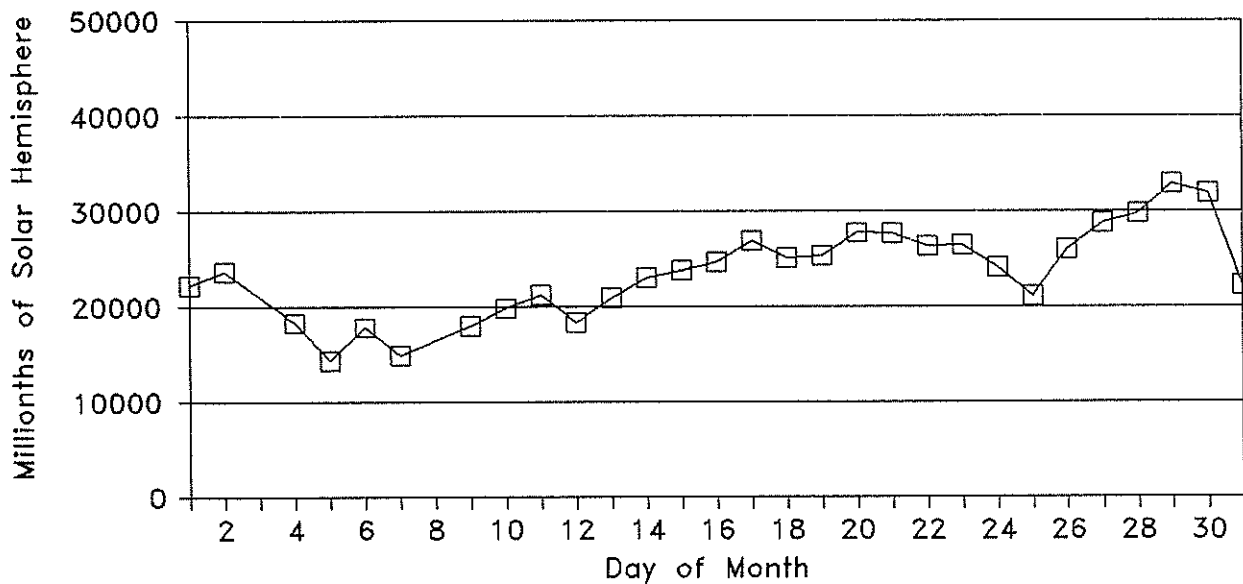
Calcium Plage Region	Sta	Mo	Day	Observation Time (UT)	Lat	CMD	CMP Mo	Day	Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
19360	BIGB	05	31	1544	S07	W28	05	29.5	2.5	1200	4503		
19360	BIGB	06	01	1607	S08	W41	05	29.7	2.5	1200	4503		
19360	BIGB	06	02	1400	S08	W54	05	29.6	2.0	1100	4503		
19356	BIGB	05	26	0052	S18	E52	05	30.0	1.0	0175	4503A		
19356	BIGB	05	27	1744	S18	E28	05	29.9	1.0	0200	4503A		
19356	BIGB	05	28	1756	S19	E14	05	29.8	1.5	0225	4503A		
19356	BIGB	05	29	1341	S17	E03	05	29.8	1.5	0200	4503A		
19363	BIGB	05	30	1756	S11	E08	05	31.3	1.0	0350	4507		
19363	BIGB	05	31	1544	S10	W04	05	31.3	2.0	0700	4507		
19363	BIGB	06	01	1607	S11	W17	05	31.4	2.5	1250	4507		
19363	BIGB	06	02	1400	S12	W29	05	31.4	2.5	1250	4507		
19363	BIGB	06	04	1545	S12	W57	05	31.4	2.5	1200	4507		
19362	BIGB	05	29	1341	S17	E20	05	31.1	1.0	0300			
19362	BIGB	05	30	1756	S18	E05	05	31.1	1.0	0350			
19362	BIGB	05	31	1544	S19	W03	05	31.4	1.0	0200			
19362	BIGB	06	01	1607	S20	W16	05	31.4	1.0	0250			

DAILY PLAGE SUMMARIES

MAY 1984

Day	Sta	Plage Index	Plage Count	Smallest Plage (Millionths of Solar Hemisphere)	Largest Plage of Solar Hemisphere	Total Area	Smallest Intensity	Largest Intensity
01	BIGB	42.0	11	100	6000	22300	1.0	3.5
02	BIGB	37.5	11	100	6000	23700	1.0	3.5
03	No Observations This Day							
04	BIGB	18.0	11	200	5500	18300	1.0	3.0
05	BIGB	10.4	12	125	4700	14325	1.0	3.0
06	BIGB	12.3	11	150	7000	17850	1.0	3.5
07	BIGB	15.4	6	175	8200	14875	1.0	3.5
08	No Observations This Day							
09	BIGB	31.8	8	350	8300	18050	1.0	3.5
10	BIGB	39.5	9	300	8300	19850	1.0	4.0
11	BIGB	44.1	9	250	8500	21200	1.0	4.0
12	BIGB	46.2	9	350	8500	18400	1.0	4.0
13	BIGB	51.1	11	200	8800	20950	1.0	4.0
14	BIGB	49.0	12	200	8500	23000	1.0	4.0
15	BIGB	47.2	10	500	8600	23800	1.5	4.0
16	BIGB	41.6	10	350	8500	24650	1.5	3.5
17	BIGB	35.0	11	300	8500	26950	1.0	3.5
18	BIGB	26.4	10	350	8500	25150	1.0	3.5
19	BIGB	30.7	9	500	6400	25400	1.0	3.5
20	BIGB	41.4	11	150	7500	27750	1.0	3.5
21	BIGB	47.8	11	150	7800	27650	1.0	3.5
22	BIGB	48.8	11	100	8000	26400	1.0	3.5
23	BIGB	54.8	10	700	8000	26500	1.0	3.5
24	BIGB	56.2	7	1000	8000	24150	1.0	3.5
25	BIGB	55.2	7	300	8000	21100	1.0	3.5
26	BIGB	59.0	10	175	8000	26025	1.0	3.5
27	BIGB	50.8	10	200	8000	28800	1.0	3.0
28	BIGB	51.3	12	200	8000	29775	1.0	3.5
29	BIGB	46.9	12	200	8000	32950	1.0	3.5
30	BIGB	43.3	12	350	7000	31900	1.0	3.5
31	BIGB	34.3	10	200	6800	22300	1.0	3.0

DAILY PLAGE AREAS FOR MAY 1984



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Late
May 84

BIG BEAR SOLAR OBSERVATORY
ACTIVE REGION SUMMARY

MAY 1984

Region Number	Return Of Region	Rotation Age	First Seen This Rotation	Duration This Rotation
19326	New	1	840501	04 Days
327	19297	4	840429	09
334	New	1	840505	02
325	New	1	840429	03
331	New	1	840504	03
328	19300, 19298 and 19299	5	840429	13
337	New	1	840509	03
329	19301	3	840429	13
330	New	1	840502	01
332	New	1	840504	03
333	New	1	840504	06
338	New	1	840509	07
335	19317	2	840505	13
336	19308	2	840506	14
346	New	1	840513	05
344	New	1	840512	07
343	New	1	840512	02
339	19307	6	840509	15
340	19312	3	840510	05
341	19314	2	840510	14
345	New	1	840513	10
342	New, in upper portion of 19314	1	840511	13
352	New	1	840520	05
348	New	1	840514	12
347	19316	2	840514	13
349	19319	2	840517	14
350	New	1	840518	13
351	19320 and 19321	3	840519	01
354	New	1	840525	04
353	19323	2	840520	14
355	New	1	840526	08
360	New	1	840528	06
356	New	1	840526	04
362	New	1	840529	04
363	New	1	840530	06

1. No CaK Observations at BBSO on May 4-10, 25, 29-31.
2. No CaK Plots on May 4-10, 25, 29-31.
3. No KPNO Magnetograms on May 3, 8.
4. Contiguous Plages: 19335/19336, 19339/19343,
19341/19342/19345, 19347/19348
19349/19351/19353

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

JUNE 1984

Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF Sunspot Groups			
		Mo	Day (UT)		Mo	Day			#1	#2	#3	
19358	BIGB	05	26	0052	S16 E74	05	31.6	3.0	2200	4500		
19358	BIGB	05	27	1744	S15 E57	06	1.0	3.0	2000	4500		
19358	BIGB	05	28	1756	S17 E44	06	1.1	3.5	2000	4500		
19358	BIGB	05	29	1341	S13 E35	06	1.2	3.5	2300	4500		
19358	BIGB	05	30	1756	S14 E18	06	1.1	3.5	2300	4500		
19358	BIGB	05	31	1544	S13 E06	06	1.1	3.0	2000	4500		
19358	BIGB	06	01	1607	S14 W05	06	1.3	3.0	1800	4500		
19358	BIGB	06	02	1400	S13 W18	06	1.2	3.0	2000	4500		
19358	BIGB	06	04	1545	S13 W46	06	1.2	3.0	2600	4500		
19358	BIGB	06	05	2345	S15 W66	06	1.0	3.0	2600	4500		
19358	BIGB	06	06	1539	S16 W73	06	1.1	3.0	1500	4500		
19359	BIGB	05	26	0052	S10 E78	05	31.9	2.5	0700	4500		
19359	BIGB	05	27	1744	S10 E70	06	2.0	2.5	1700	4500		
19359	BIGB	05	28	1756	S10 E58	06	2.1	3.0	2000	4500		
19359	BIGB	05	29	1341	S10 E42	06	1.7	3.0	2000	4500		
19359	BIGB	05	30	1756	S11 E25	06	1.6	3.5	2000	4500		
19359	BIGB	05	31	1544	S11 E13	06	1.6	3.0	2000	4500		
19359	BIGB	06	01	1607	S12 E02	06	1.8	3.0	2350	4500		
19359	BIGB	06	02	1400	S12 W10	06	1.8	3.0	1600	4500		
19359	BIGB	06	04	1545	S11 W37	06	1.9	3.0	1500	4500		
19359	BIGB	06	05	2345	S11 W53	06	2.0	3.0	1550	4500		
19359	BIGB	06	06	1539	S11 W61	06	2.1	3.0	1600	4500		
19359	BIGB	06	07	1603	S11 W74	06	2.1	3.5	1600	4500		
19357	BIGB	05	27	1744	N22 E71	06	2.2	3.0	3300	4500A		
19357	BIGB	05	28	1756	N23 E58	06	2.2	3.5	3300	4500A		
19357	BIGB	05	29	1341	N23 E46	06	2.1	3.0	3300	4500A		
19357	BIGB	05	30	1756	N23 E28	06	1.9	3.0	3300	4500A		
19357	BIGB	05	31	1544	N23 E18	06	2.0	2.5	3300	4500A		
19357	BIGB	06	01	1607	N23 E05	06	2.0	2.5	2750	4500A		
19357	BIGB	06	02	1400	N23 W05	06	2.2	2.5	2650	4500A		
19357	BIGB	06	04	1545	N23 W32	06	2.2	2.5	2000	4500A		
19357	BIGB	06	05	2345	N23 W49	06	2.2	3.0	2000	4500A		
19357	BIGB	06	06	1539	N23 W57	06	2.2	2.0	2000	4500A		
19357	BIGB	06	07	1603	N24 W66	06	2.6	2.0	2000	4500A		
19361	BIGB	05	28	1756	S28 E75	06	3.6	1.0	0700	4506		
19361	BIGB	05	29	1341	S22 E75	06	4.3	2.5	3000	4506		
19361	BIGB	05	30	1756	S23 E60	06	4.4	2.5	3000	4506		
19361	BIGB	05	31	1544	S23 E48	06	4.3	2.5	2800	4506		
19361	BIGB	06	01	1607	S22 E35	06	4.4	2.5	2200	4506		
19361	BIGB	06	02	1400	S22 E23	06	4.3	2.5	2000	4506		
19361	BIGB	06	04	1545	S21 W04	06	4.3	2.5	2000	4506		
19361	BIGB	06	05	2345	S21 W21	06	4.4	2.5	2000	4506		
19361	BIGB	06	06	1539	S21 W31	06	4.3	2.0	2000	4506		
19361	BIGB	06	07	1603	S23 W41	06	4.5	2.0	2000	4506		
19361	BIGB	06	08	1649	S22 W57	06	4.3	2.0	2000	4506		
19361	BIGB	06	09	2126	S22 W72	06	4.3	1.5	2000	4506		
19364	BIGB	06	01	1607	S16 E46	06	5.2	1.0	0100			
19364	BIGB	06	02	1400	S16 E33	06	5.1	1.0	0100			
19364	BIGB	06	04	1545	S16 E07	06	5.2	1.0	0150			
19364	BIGB	06	05	2345	S21 W11	06	5.1	1.0	0100			
19364	BIGB	06	06	1539	S21 W20	06	5.1	1.0	0100			
19369	BIGB	06	07	1603	N05 W22	06	6.0	1.0	0250			
19369	BIGB	06	08	1649	N05 W36	06	6.0	1.0	0225			
19369	BIGB	06	09	2126	N05 W51	06	6.1	1.0	0100			
19370	BIGB	06	08	1649	S20 W14	06	7.6	1.0	0150			
19370	BIGB	06	09	2126	S20 W31	06	7.5	1.0	0150			
19365	BIGB	06	01	1607	N04 E79	06	7.6	2.0	3500	4508	4510A	
19365	BIGB	06	02	1400	N05 E69	06	7.7	2.0	5000	4508	4510A	
19365	BIGB	06	04	1545	N05 E45	06	8.0	2.0	8500	4508	4510A	
19365	BIGB	06	05	2345	N07 E29	06	8.2	2.5	8500	4508	4510A	
19365	BIGB	06	06	1539	N05 E20	06	8.1	2.5	8500	4508	4510A	
19365	BIGB	06	07	1603	N06 E07	06	8.2	2.5	8500	4508	4510A	
19365	BIGB	06	08	1649	N06 W06	06	8.2	2.5	8000	4508	4510A	
19365	BIGB	06	09	2126	N07 W22	06	8.2	2.5	8000	4508	4510A	

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CALCIUM PLAGE REGIONS
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Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot Groups		
		Mo	Day		Mo	Day			Intensity	#2	#3
19365	BIGB	06	10	2220	N06 W33	06	8.5	2.5	8000	4508	4510A
19365	BIGB	06	11	2047	N07 W45	06	8.5	2.5	8000	4508	4510A
19365	BIGB	06	12	2131	N08 W53	06	8.9	2.5	8000	4508	4510A
19365	BIGB	06	13	1805	N07 W63	06	9.0	2.0	8000	4508	4510A
19365	BIGB	06	14	2010	N07 W73	06	9.4	1.5	5000	4508	4510A
19367	BIGB	06	07	1603	S07 E75	06	13.3	1.0	0450		
19367	BIGB	06	08	1649	S08 E62	06	13.3	1.5	0500		
19367	BIGB	06	09	2126	S10 E40	06	12.9	1.5	0500		
19367	BIGB	06	10	2220	S10 E27	06	12.9	1.5	0500		
19367	BIGB	06	11	2047	S10 E14	06	12.9	1.0	0500		
19367	BIGB	06	12	2131	S10 E01	06	13.0	1.0	0550		
19367	BIGB	06	13	1805	S09 W10	06	13.0	1.5	0550		
19376	BIGB	06	13	1805	S13 W08	06	13.1	1.0	0200		
19368	BIGB	06	07	1603	S17 E76	06	13.4	1.0	0150		
19368	BIGB	06	08	1649	S18 E61	06	13.3	1.0	0650		
19368	BIGB	06	09	2126	S18 E47	06	13.5	2.0	0650		
19368	BIGB	06	10	2220	S18 E33	06	13.4	2.0	0650		
19368	BIGB	06	11	2047	S18 E20	06	13.4	1.0	0650		
19368	BIGB	06	12	2131	S18 E08	06	13.5	1.0	0650		
19368	BIGB	06	13	1805	S18 W04	06	13.4	1.5	0600		
19368	BIGB	06	14	2010	S20 W19	06	13.4	1.0	0600		
19368	BIGB	06	15	1706	S20 W30	06	13.4	1.0	0700		
19368	BIGB	06	16	1357	S19 W41	06	13.4	1.0	0600		
19368	BIGB	06	17	0007	S20 W47	06	13.4	1.0	0600		
19368	BIGB	06	18	0024	S20 W64	06	13.1	1.0	0500		
19366	BIGB	06	07	1603	S13 E81	06	13.8	2.0	0500	4509	
19366	BIGB	06	08	1649	S12 E72	06	14.1	3.5	1400	4509	
19366	BIGB	06	09	2126	S09 E57	06	14.2	3.0	1400	4509	
19366	BIGB	06	10	2220	S09 E41	06	14.0	3.0	1500	4509	
19366	BIGB	06	11	2047	S09 E31	06	14.2	3.0	1600	4509	
19366	BIGB	06	12	2131	S09 E16	06	14.1	3.0	1650	4509	
19366	BIGB	06	13	1805	S09 E05	06	14.1	2.5	1500	4509	
19366	BIGB	06	14	2010	S10 W17	06	13.6	2.5	1500	4509	
19366	BIGB	06	15	1706	S10 W29	06	13.5	3.0	2000	4509	
19366	BIGB	06	16	1357	S11 W40	06	13.6	3.0	2700	4509	
19366	BIGB	06	17	0007	S10 W44	06	13.7	3.0	3000	4509	
19366	BIGB	06	18	0024	S11 W58	06	13.6	3.0	3000	4509	
19366	BIGB	06	19	2031	S11 W77	06	14.1	3.0	2700	4509	
19371	BIGB	06	10	2220	S07 E79	06	16.8	3.0	1300	4511	
19371	BIGB	06	11	2047	S07 E64	06	16.6	3.0	1300	4511	
19371	BIGB	06	12	2131	S09 E48	06	16.5	3.0	1300	4511	
19371	BIGB	06	13	1805	S09 E37	06	16.5	2.5	1500	4511	
19371	BIGB	06	14	2010	S09 E23	06	16.6	2.0	1500	4511	
19371	BIGB	06	15	1706	S09 E11	06	16.5	2.5	1200	4511	
19371	BIGB	06	16	1357	S08 W03	06	16.3	2.5	1000	4511	
19371	BIGB	06	17	0007	S09 W06	06	16.5	2.5	1000	4511	
19371	BIGB	06	18	0024	S11 W22	06	16.4	2.5	1150	4511	
19371	BIGB	06	19	2031	S11 W45	06	16.5	2.5	1100	4511	
19371	BIGB	06	20	1423	S09 W56	06	16.4	2.5	0900	4511	
19371	BIGB	06	21	1534	S10 W72	06	16.2	2.0	0800	4511	
19373	BIGB	06	12	2131	N09 E51	06	16.7	2.5	0125	4515	
19373	BIGB	06	13	1805	N09 E40	06	16.7	1.0	0300	4515	
19373	BIGB	06	14	2010	N09 E26	06	16.8	1.5	0300	4515	
19373	BIGB	06	15	1706	N09 E13	06	16.7	2.0	0500	4515	
19373	BIGB	06	16	1357	N08 E02	06	16.7	2.0	0550	4515	
19373	BIGB	06	17	0007	N09 W05	06	16.6	2.5	0700	4515	
19373	BIGB	06	18	0024	N09 W19	06	16.6	2.5	0700	4515	
19373	BIGB	06	19	2031	N09 W43	06	16.6	2.0	0600	4515	
19373	BIGB	06	20	1423	N08 W53	06	16.6	2.0	0500	4515	
19373	BIGB	06	21	1534	N08 W68	06	16.5	1.5	0500	4515	
19374	BIGB	06	11	2047	N02 E70	06	17.1	2.0	0500	4512	
19374	BIGB	06	12	2131	N02 E53	06	16.8	2.0	0600	4512	
19374	BIGB	06	13	1805	N02 E40	06	16.7	1.5	0600	4512	
19374	BIGB	06	14	2010	N02 E27	06	16.8	1.0	0600	4512	

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

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Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP		Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day		(UT)	Mo					Day	Intensity
19374	BIGB	06	15	1706	N02 E13	06 16.7	1.5	0400		4512
19374	BIGB	06	16	1357	N02 E02	06 16.7	1.5	0400		4512
19374	BIGB	06	17	0007	N02 W04	06 16.7	1.0	0350		4512
19374	BIGB	06	18	0024	N01 W21	06 16.4	1.0	0300		4512
19374	BIGB	06	19	2031	N01 W45	06 16.5	1.0	0200		4512
19381	BIGB	06	17	0007	N21 E02	06 17.1	1.0	0300		4518
19381	BIGB	06	18	0024	N19 W16	06 16.8	1.0	0350		4518
19381	BIGB	06	19	2031	N18 W42	06 16.6	1.0	0300		4518
19375	BIGB	06	12	2131	S07 E81	06 19.0	3.5	1000		4513
19375	BIGB	06	13	1805	S06 E68	06 18.8	3.0	2200		4513
19375	BIGB	06	14	2010	S07 E52	06 18.7	3.0	2350		4513
19375	BIGB	06	15	1706	S08 E38	06 18.6	3.5	2400		4513
19375	BIGB	06	16	1357	S07 E25	06 18.4	3.5	2400		4513
19375	BIGB	06	17	0007	S07 E22	06 18.6	3.5	2350		4513
19375	BIGB	06	18	0024	S07 E09	06 18.7	3.5	3000		4513
19375	BIGB	06	19	2031	S07 W16	06 18.6	3.5	3100		4513
19375	BIGB	06	20	1423	S06 W26	06 18.6	3.5	3200		4513
19375	BIGB	06	21	1534	S08 W42	06 18.5	3.5	3200		4513
19375	BIGB	06	22	1620	S08 W54	06 18.6	3.5	3300		4513
19375	BIGB	06	23	2250	S09 W75	06 18.3	3.5	3300		4513
19375	BIGB	06	24	1659	S07 W80	06 18.7	3.5	2800		4513
19382	BIGB	06	20	1423	S06 W08	06 20.0	2.0	0400		
19382	BIGB	06	21	1534	S08 W30	06 19.4	2.0	0600		
19377	BIGB	06	13	1805	S09 E84	06 20.0	1.5	2700		4519
19377	BIGB	06	14	2010	S13 E71	06 20.2	2.5	2900		4519
19377	BIGB	06	15	1706	S13 E59	06 20.2	2.0	3500		4519
19377	BIGB	06	16	1357	S12 E45	06 20.0	2.0	3500		4519
19377	BIGB	06	17	0007	S13 E42	06 20.2	2.0	3700		4519
19377	BIGB	06	18	0024	S12 E28	06 20.1	2.5	3600		4519
19377	BIGB	06	19	2031	S13 E04	06 20.1	2.5	3550		4519
19377	BIGB	06	20	1423	S14 W05	06 20.2	2.5	3500		4519
19377	BIGB	06	21	1534	S14 W18	06 20.3	2.0	3300		4519
19377	BIGB	06	22	1620	S14 W32	06 20.3	2.0	3400		4519
19377	BIGB	06	23	2250	S15 W50	06 20.2	2.0	3200		4519
19377	BIGB	06	24	1659	S12 W60	06 20.2	2.0	3200		4519
19377	BIGB	06	25	1440	S12 W70	06 20.3	2.0	3000		4519
19378	BIGB	06	14	2010	N03 E80	06 20.8	2.5	0700		4516
19378	BIGB	06	15	1706	N04 E67	06 20.7	2.5	1000		4516
19378	BIGB	06	16	1357	N03 E52	06 20.5	2.5	1350		4516
19378	BIGB	06	17	0007	N04 E48	06 20.6	2.0	1300		4516
19378	BIGB	06	18	0024	N04 E35	06 20.6	2.0	1200		4516
19378	BIGB	06	19	2031	N04 E11	06 20.7	2.5	1200		4516
19378	BIGB	06	20	1423	N03 W02	06 20.4	2.5	1200		4516
19378	BIGB	06	21	1534	N03 W13	06 20.7	2.0	1200		4516
19378	BIGB	06	22	1620	N04 W27	06 20.7	2.0	1600		4516
19378	BIGB	06	23	2250	N04 W43	06 20.7	2.0	1600		4516
19378	BIGB	06	24	1659	N04 W55	06 20.6	2.0	1600		4516
19378	BIGB	06	25	1440	N05 W68	06 20.5	1.5	1500		4516
19380	BIGB	06	15	1706	N16 E79	06 21.7	3.0	2000		4517
19380	BIGB	06	16	1357	N16 E64	06 21.4	3.0	1000		4517
19380	BIGB	06	17	0007	N17 E62	06 21.7	3.0	1500		4517
19380	BIGB	06	18	0024	N16 E47	06 21.6	2.5	1700		4517
19380	BIGB	06	19	2031	N17 E23	06 21.6	2.5	1300		4517
19380	BIGB	06	20	1423	N17 E10	06 21.3	2.5	1100		4517
19380	BIGB	06	21	1534	N17 W04	06 21.3	2.5	0850		4517
19380	BIGB	06	22	1620	N17 W17	06 21.4	2.5	1100		4517
19380	BIGB	06	23	2250	N16 W33	06 21.4	2.5	1100		4517
19380	BIGB	06	24	1659	N17 W44	06 21.4	2.5	1100		4517
19380	BIGB	06	25	1440	N17 W55	06 21.4	1.5	1000		4517
19379	BIGB	06	14	2010	S08 E83	06 21.1	1.5	0700		4514
19379	BIGB	06	15	1706	S05 E73	06 21.2	2.5	2000		4514
19379	BIGB	06	16	1357	S07 E65	06 21.4	2.5	3000		4514
19379	BIGB	06	17	0007	S06 E58	06 21.3	2.5	3500		4514
19379	BIGB	06	18	0024	S06 E46	06 21.4	2.5	3300		4514

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CALCIUM PLAGE REGIONS
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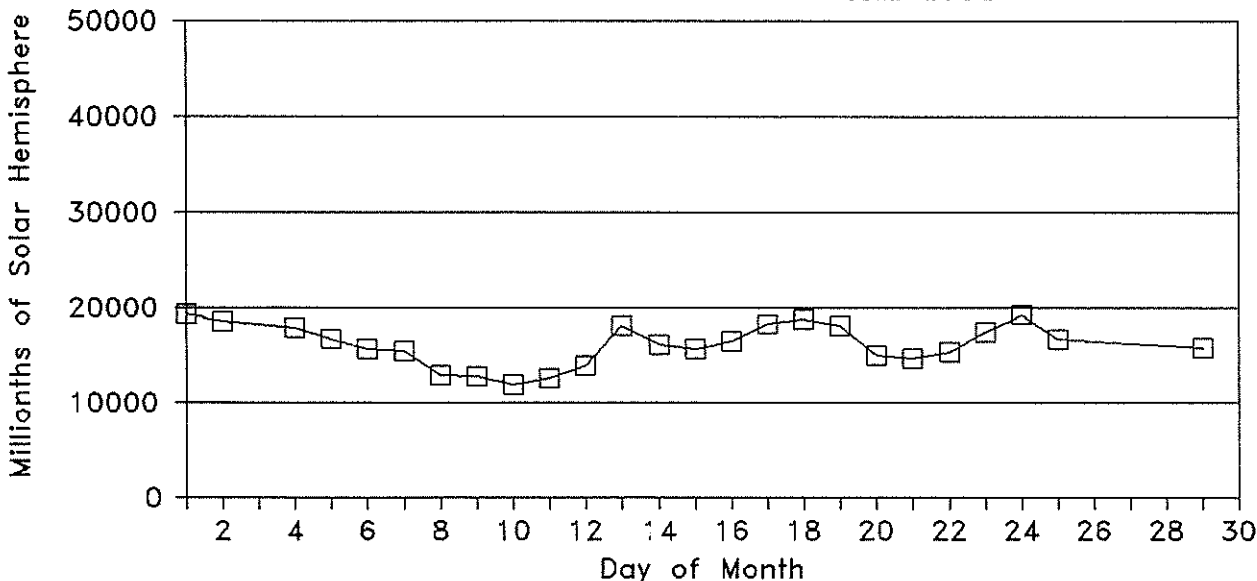
Calcium Plage Region	Sta	Observation Time		Lat CMD	CMP Mo Day	Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
		Mo	Day								(UT)
19379	BIGB	06	19	2031	S06 E21	06 21.4	2.5	3250	4514	
19379	BIGB	06	20	1423	S09 E11	06 21.4	2.5	3200	4514	
19379	BIGB	06	21	1534	S07 W01	06 21.6	2.0	3400	4514	
19379	BIGB	06	22	1620	S07 W15	06 21.5	3.0	3400	4514	
19379	BIGB	06	23	2250	S07 W29	06 21.8	2.5	3400	4514	
19379	BIGB	06	24	1659	S07 W42	06 21.6	2.5	3400	4514	
19379	BIGB	06	25	1440	S07 W55	06 21.5	2.0	3600	4514	
19385	BIGB	06	22	1620	N04 W07	06 22.1	1.5	0125		
19385	BIGB	06	23	2250	N04 W24	06 22.1	1.0	0275		
19383	BIGB	06	19	2031	S17 E56	06 24.1	2.0	0800	4520	4526A
19383	BIGB	06	20	1423	S15 E45	06 24.0	2.0	1000	4520	4526A
19383	BIGB	06	21	1534	S18 E31	06 24.0	2.0	0850	4520	4526A
19383	BIGB	06	22	1620	S17 E18	06 24.0	3.5	1300	4520	4526A
19383	BIGB	06	23	2250	S17 E02	06 24.1	3.5	1650	4520	4526A
19383	BIGB	06	24	1659	S16 W13	06 23.7	3.5	2900	4520	4526A
19383	BIGB	06	25	1440	S16 W24	06 23.8	3.5	3000	4520	4526A
19383	BIGB	06	29	1618	S18 W70	06 24.3	2.5	3000	4520	4526A
19389	BIGB	06	24	1659	S07 E03	06 24.9	1.0	0200	4526	
19389	BIGB	06	25	1440	S06 W09	06 24.9	1.0	0300	4526	
19389	BIGB	06	29	1618	N02 W72	06 24.3	1.0	0600	4526	
19390	BIGB	06	25	1440	S13 W09	06 24.9	1.0	0325		
19390	BIGB	06	29	1618	S09 W67	06 24.6	3.0	0500		
19387	BIGB	06	23	2250	S16 E32	06 26.4	1.0	0150		
19387	BIGB	06	24	1659	S15 E19	06 26.1	1.0	0300		
19387	BIGB	06	25	1440	S16 E07	06 26.1	1.0	0300		
19386	BIGB	06	22	1620	S13 E61	06 27.3	1.0	0100	4522	
19386	BIGB	06	23	2250	S13 E44	06 27.3	1.0	0100	4522	
19386	BIGB	06	24	1659	S13 E33	06 27.2	1.0	0500	4522	
19386	BIGB	06	25	1440	S13 E21	06 27.2	2.0	0700	4522	
19386	BIGB	06	29	1618	S13 W31	06 27.3	1.5	0350	4522	
19384	BIGB	06	22	1620	S15 E74	06 28.3	1.0	1000	4521	
19384	BIGB	06	23	2250	S15 E60	06 28.5	1.0	1400	4521	
19384	BIGB	06	24	1659	S14 E49	06 28.4	1.0	1700	4521	
19384	BIGB	06	25	1440	S14 E37	06 28.4	2.5	1300	4521	
19384	BIGB	06	29	1618	S15 W16	06 28.5	1.0	1200	4521	
19388	BIGB	06	23	2250	N11 E78	06 29.8	3.0	1350	4521A	
19388	BIGB	06	24	1659	N12 E65	06 29.6	2.5	1600	4521A	
19388	BIGB	06	25	1440	N12 E55	06 29.7	2.5	1700	4521A	
19388	BIGB	06	29	1618	N11 E03	06 29.9	2.5	1400	4521A	
19388	BIGB	07	03	1435	N11 W51	06 29.9	1.5	1300	4521A	
19388	BIGB	07	04	1549	N11 W65	06 29.9	1.0	1300	4521A	

DAILY PLAGE SUMMARIES

JUNE 1984

Day	Sta	Plage Index	Plage Count	Smallest Plage (Millionths)	Largest Plage of Solar Hemisphere)	Total Area	Smallest Intensity	Largest Intensity
01	BIGB	31.3	12	100	3500	19350	1.0	3.0
02	BIGB	28.7	10	100	5000	18625	1.0	3.0
03	No Observations This Day							
04	BIGB	30.6	7	150	8500	17950	1.0	3.0
05	BIGB	31.8	6	100	8500	16750	1.0	3.0
06	BIGB	28.3	6	100	8500	15700	1.0	3.0
07	BIGB	26.9	8	150	8500	15450	1.0	3.5
08	BIGB	24.0	7	150	8000	12925	1.0	3.5
09	BIGB	22.8	7	100	8000	12800	1.0	3.0
10	BIGB	22.1	5	500	8000	11950	1.5	3.0
11	BIGB	20.8	6	500	8000	12550	1.0	3.0
12	BIGB	21.2	8	125	8000	13875	1.0	3.5
13	BIGB	18.7	10	200	8000	18150	1.0	3.0
14	BIGB	16.3	10	300	5000	16150	1.0	3.0
15	BIGB	23.1	10	400	3500	15700	1.0	3.5
16	BIGB	29.0	10	400	3500	16500	1.0	3.5
17	BIGB	32.3	11	300	3700	18300	1.0	3.5
18	BIGB	37.8	11	300	3600	18800	1.0	3.5
19	BIGB	37.7	11	200	3550	18100	1.0	3.5
20	BIGB	35.6	9	400	3500	15000	2.0	3.5
21	BIGB	28.4	9	500	3400	14700	1.5	3.5
22	BIGB	31.7	9	100	3400	15325	1.0	3.5
23	BIGB	25.6	11	100	3400	17525	1.0	3.5
24	BIGB	27.1	11	200	3400	19300	1.0	3.5
25	BIGB	23.5	11	300	3600	16725	1.0	3.5
26	No Observations This Day							
27	No Observations This Day							
28	No Observations This Day							
29	BIGB	18.7	9	350	3500	15850	1.0	3.0
30	No Observations This Day							

DAILY PLAGE AREAS FOR JUNE 1984



122
Late
Jun 84

BIG BEAR SOLAR OBSERVATORY
ACTIVE REGION SUMMARY

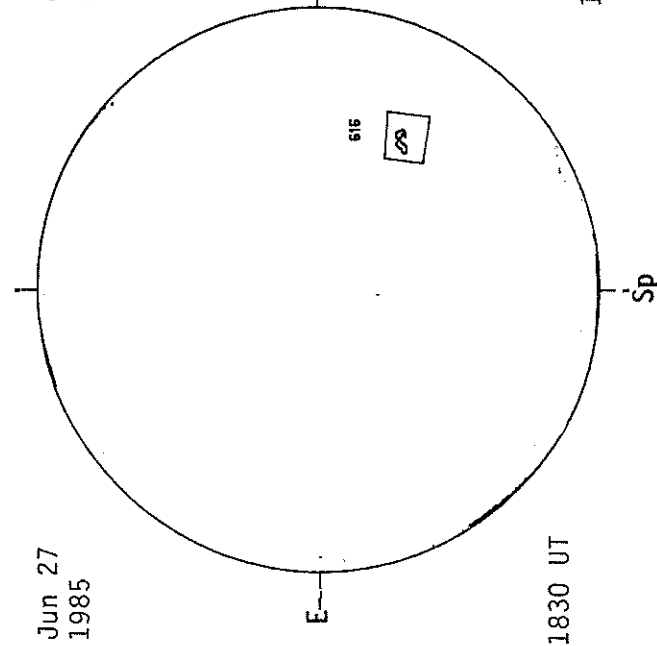
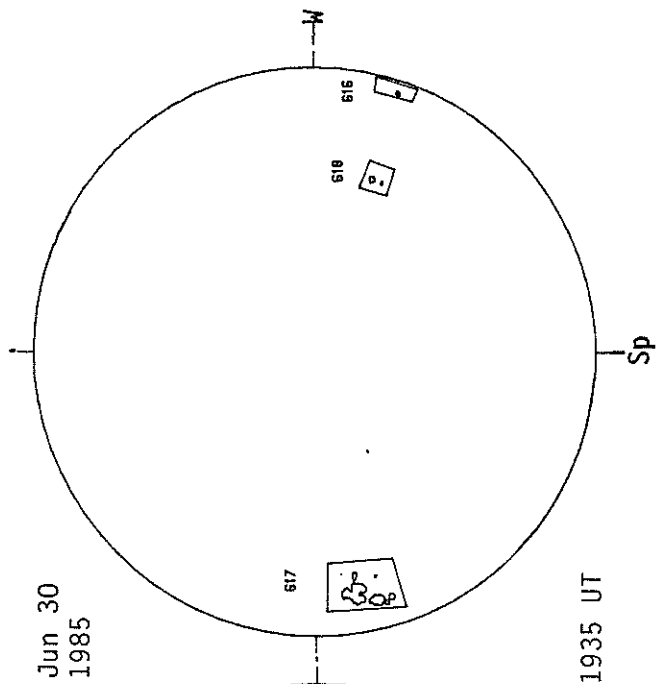
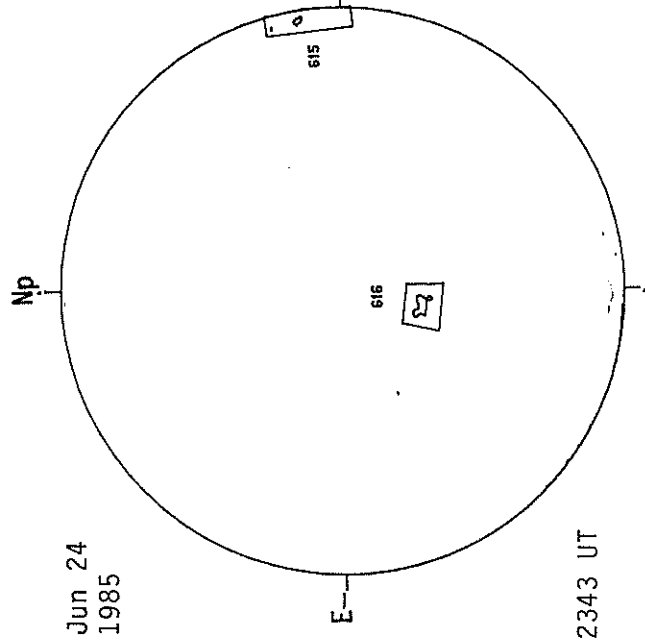
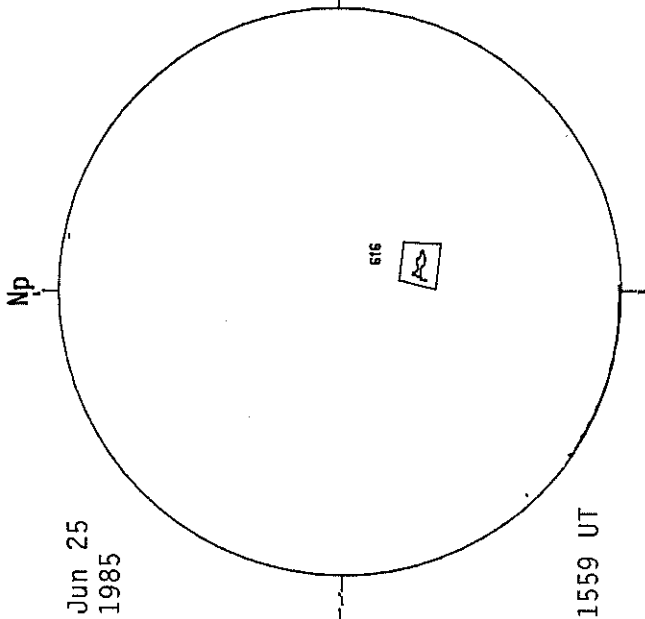
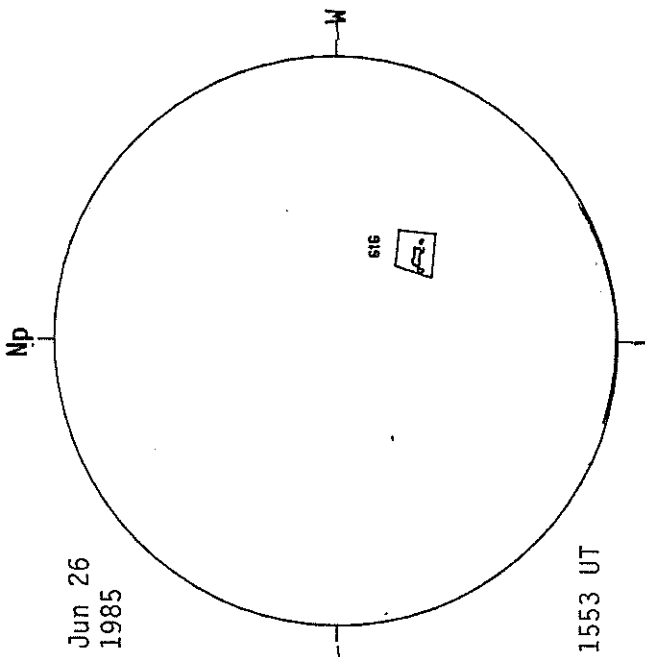
JUNE 1984

Region Number	Return Of Region	Rotation Age	First Seen This Rotation	Duration This Rotation
19358	New in leading portion of 19337	1	840526	12 Days
359	19337	2	840526	13
357	New	1	840527	14
361	New	1	840528	14
364	New	1	840601	04
369	New	1	840607	03
370	New	1	840608	02
365	19336	3	840601	15
367	19345	2	840607	07
376	New	1	840613	01
368	19341	3	840607	13
366	19342	2	840607	13
371	New	1	840610	13
373	New	1	840612	13
374	New	1	840611	09
381	New	1	840617	09
375	New	1	840612	13
377	19349	3	840613	14
382	New	1	840620	02
378	19350	2	840614	13
379	19351	4	840614	13
380	New	1	840615	12
385	New	1	840622	02
383	New (vicinity of 19353)	1	840619	11
389	New	1	840624	06
390	New	1	840625	05
387	New	1	840623	03
386	New	1	840622	08
384	19358	2	840622	14
388	New	1	840623	14

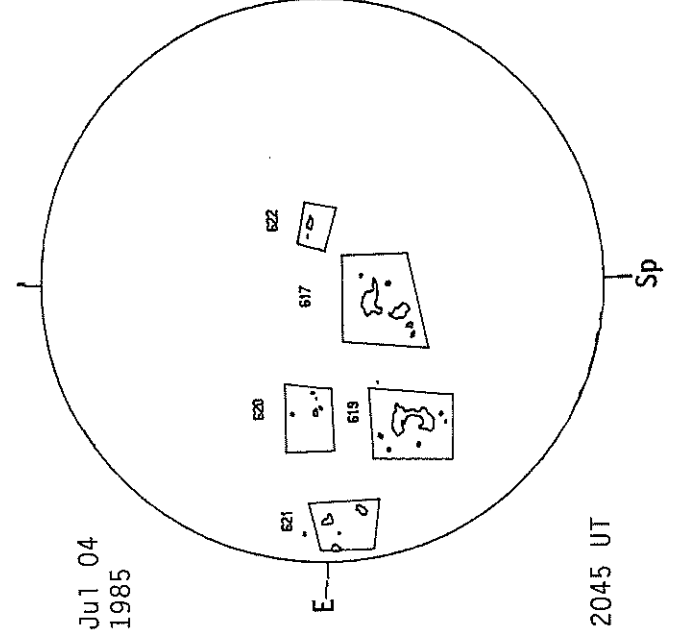
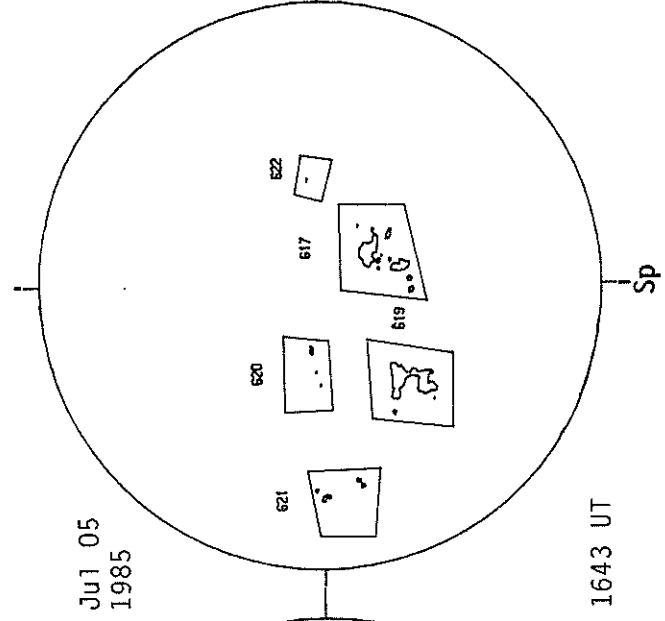
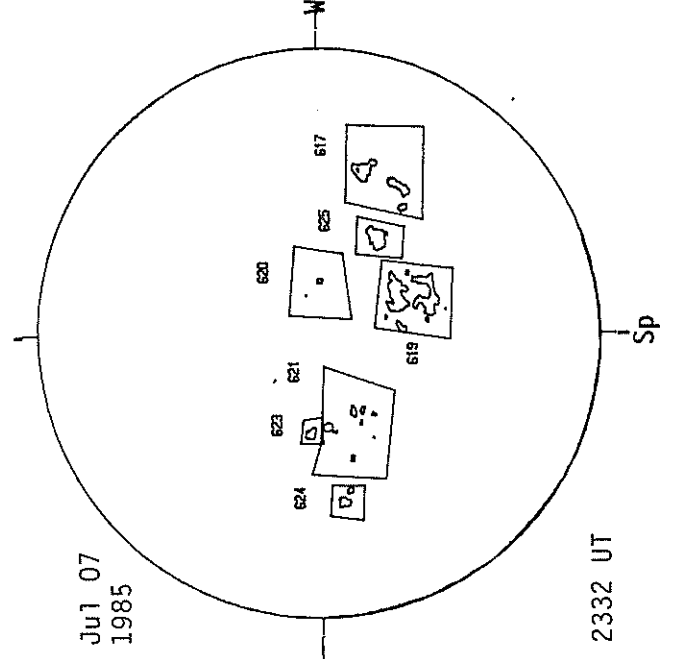
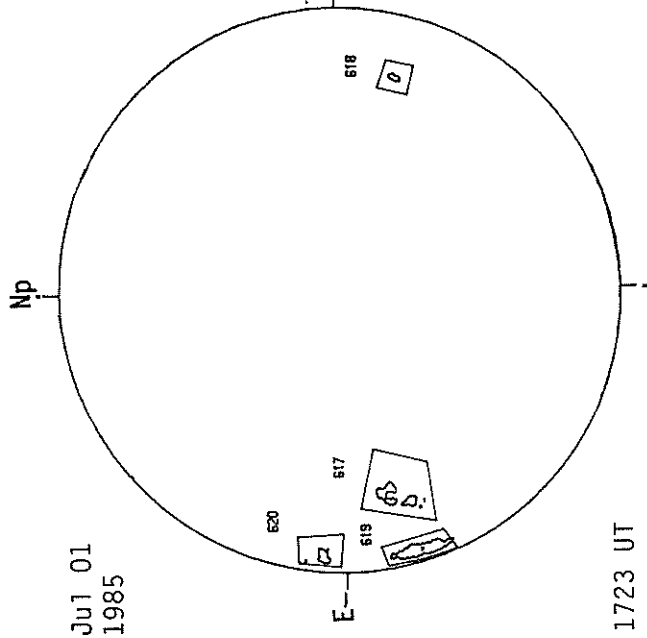
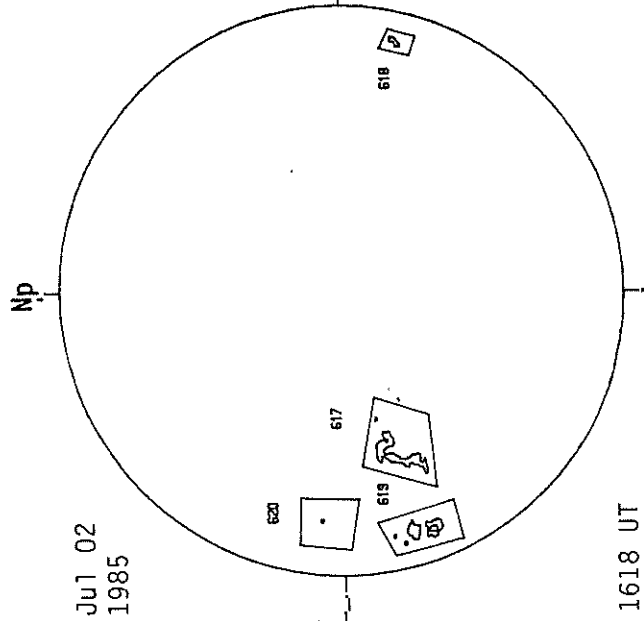
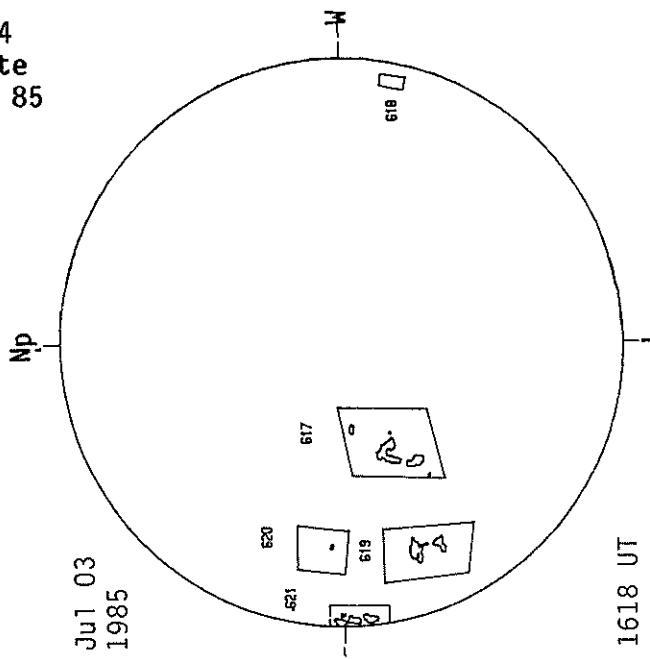
1. No CaK Observations at BBSO on June 1-4, 16, 20, 24-28, 30.
2. No CaK Plots on June 1-4, 16, 20, 24-28, 30.
3. No KPNO Magnetograms on June 3, 5, 6, 11, 19, 26-30.
4. Contiguous Plages: 19358/19359, 19337/19378/19379

BIG BEAR SOLAR CALCIUM PLAGE REGIONS

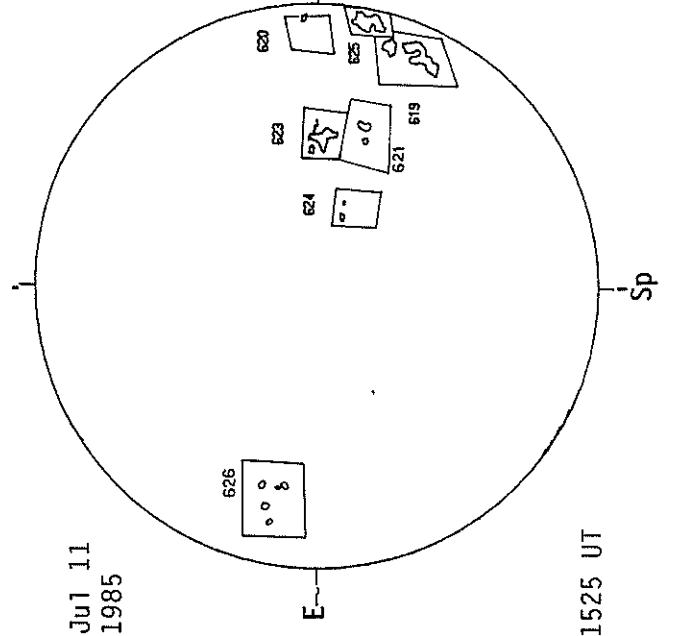
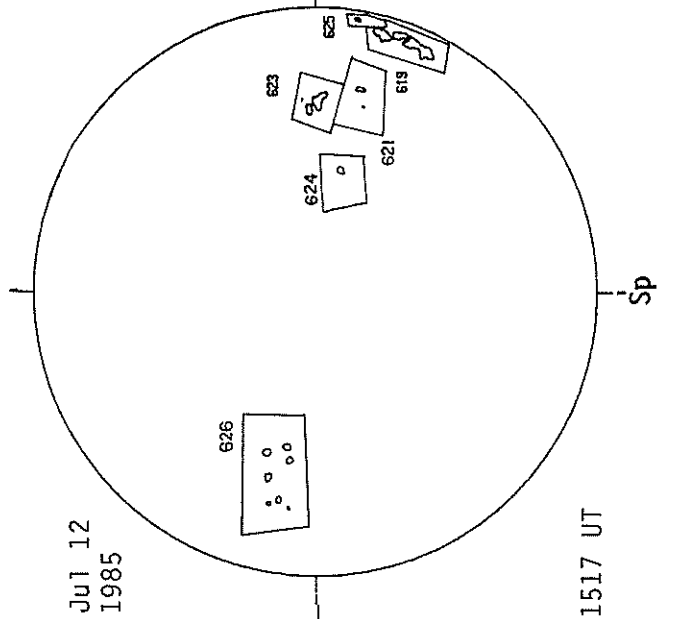
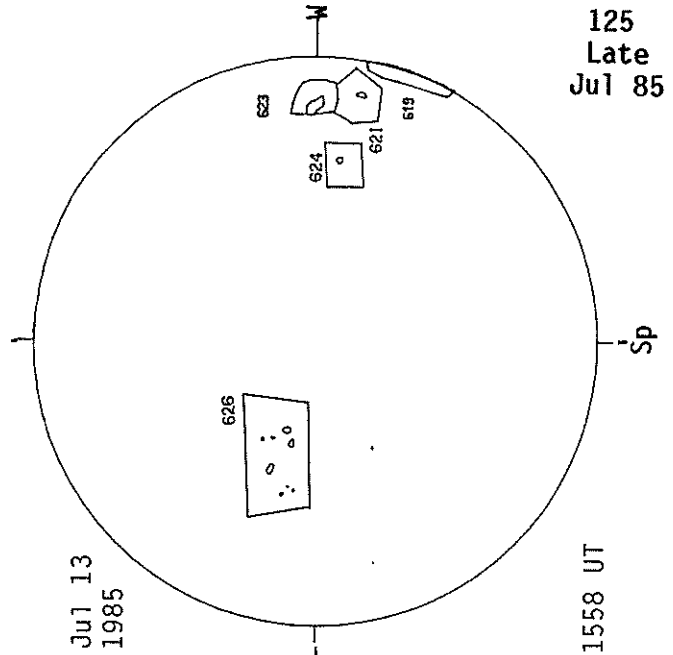
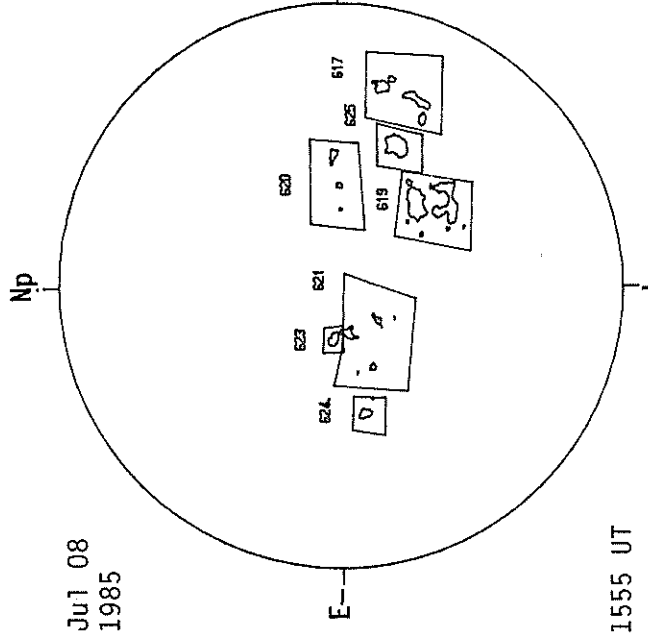
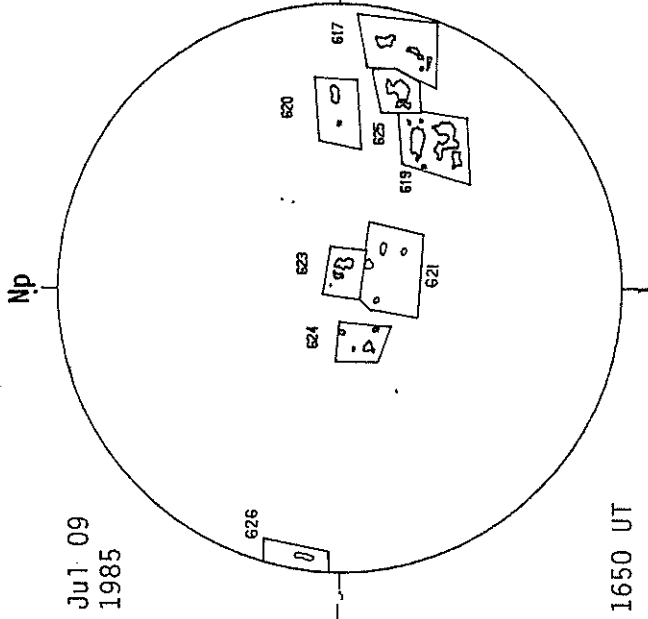
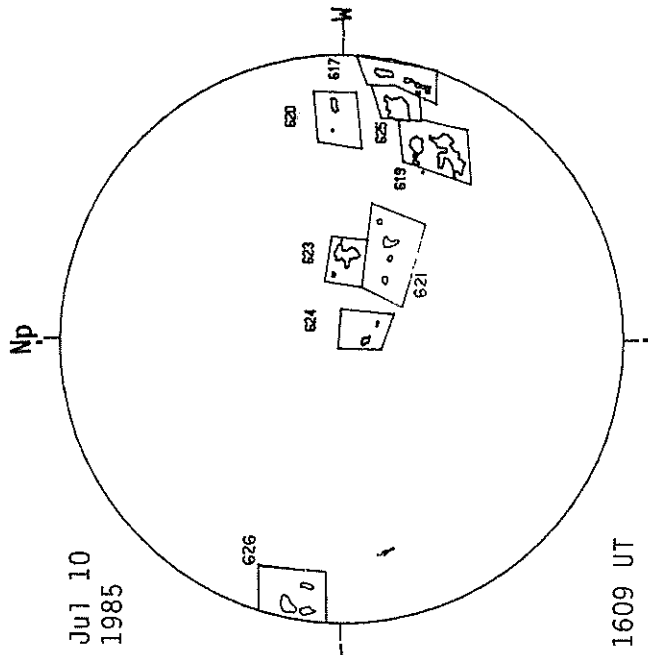
123
Late
Jun 85



BIG BEAR SOLAR CALCIUM PLAGE REGIONS

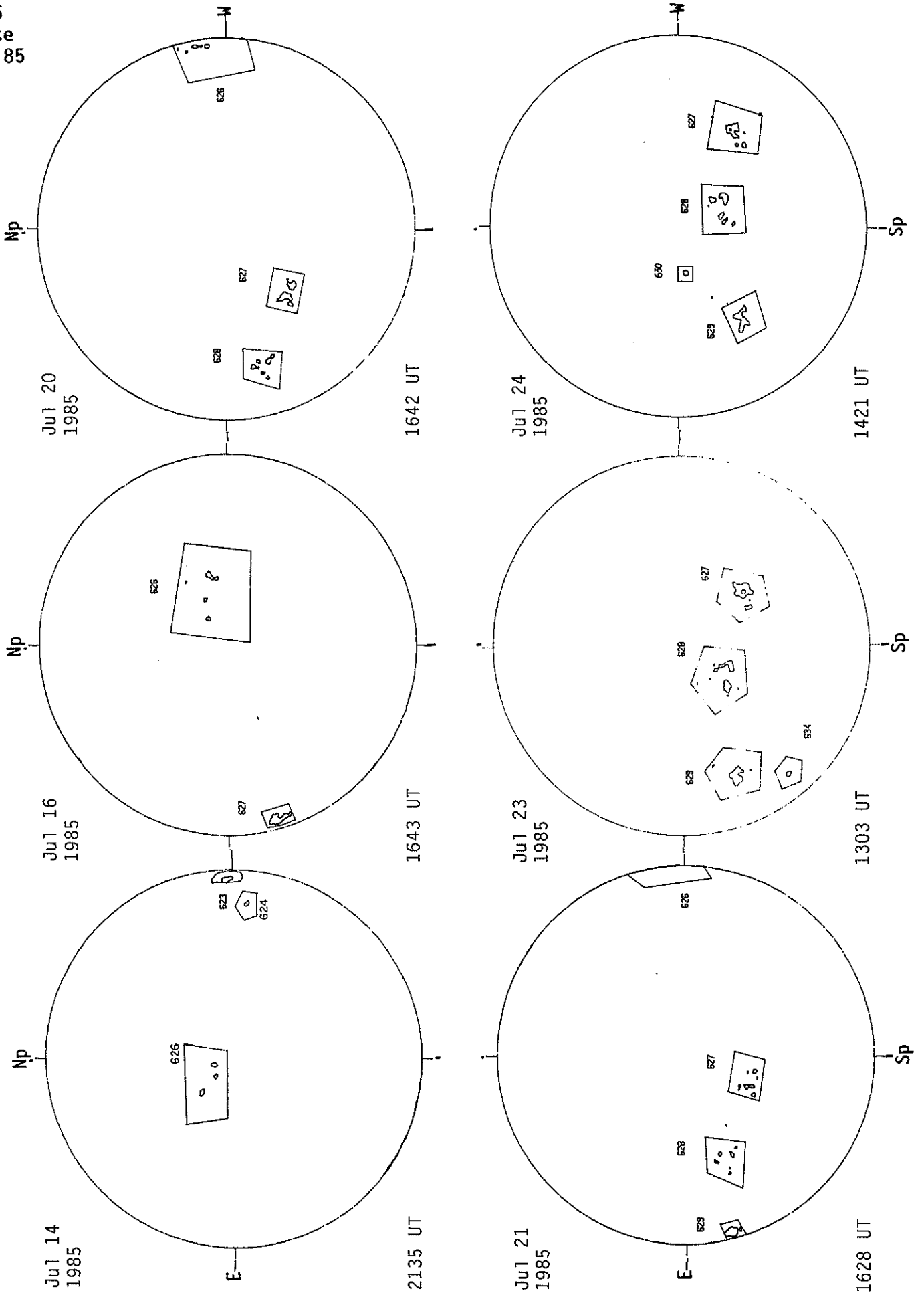


BIG BEAR SOLAR CALCIUM PLAGE REGIONS

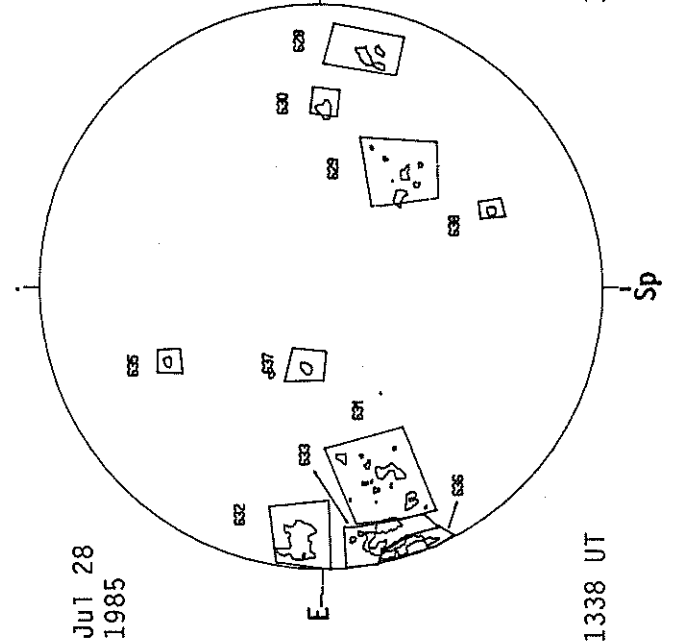
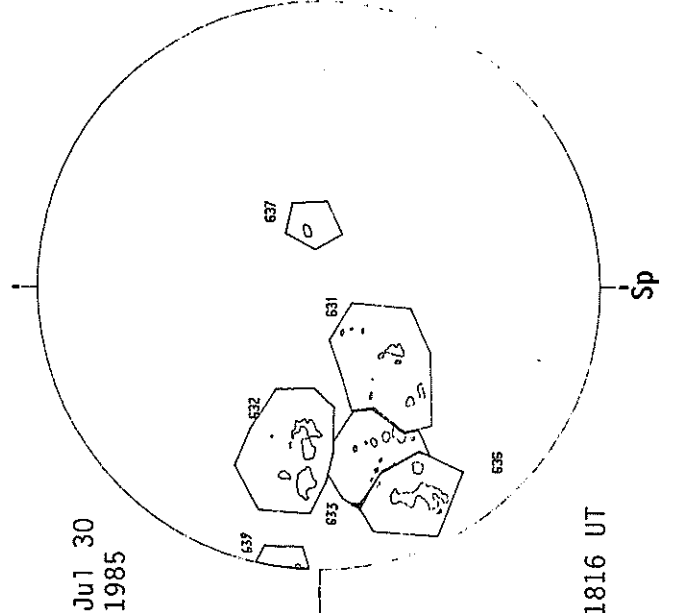
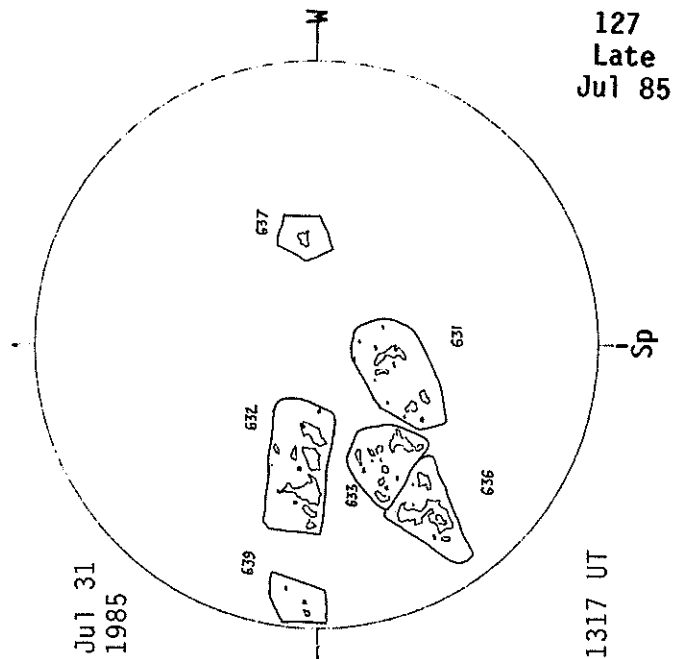
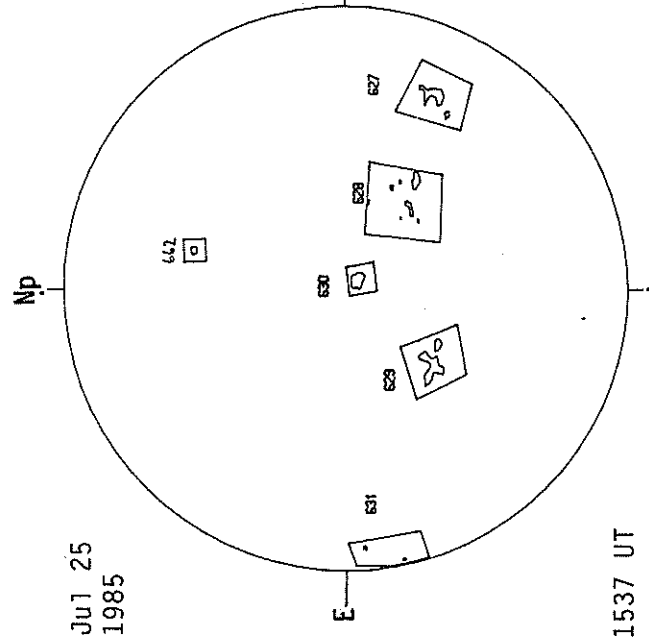
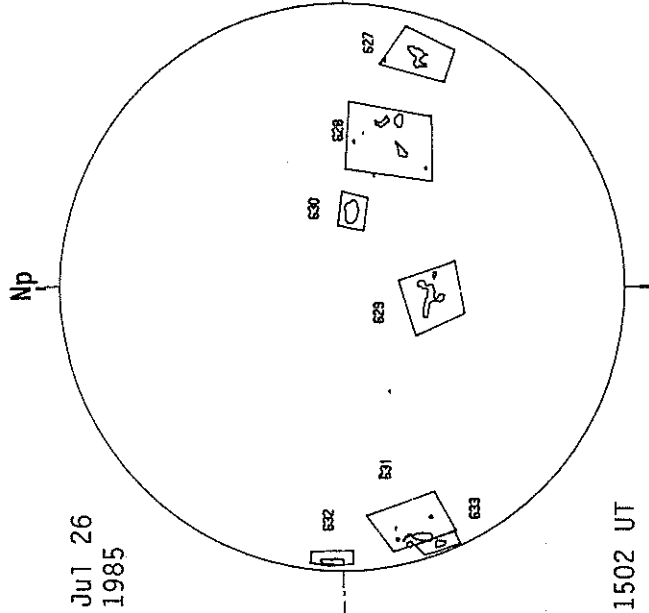
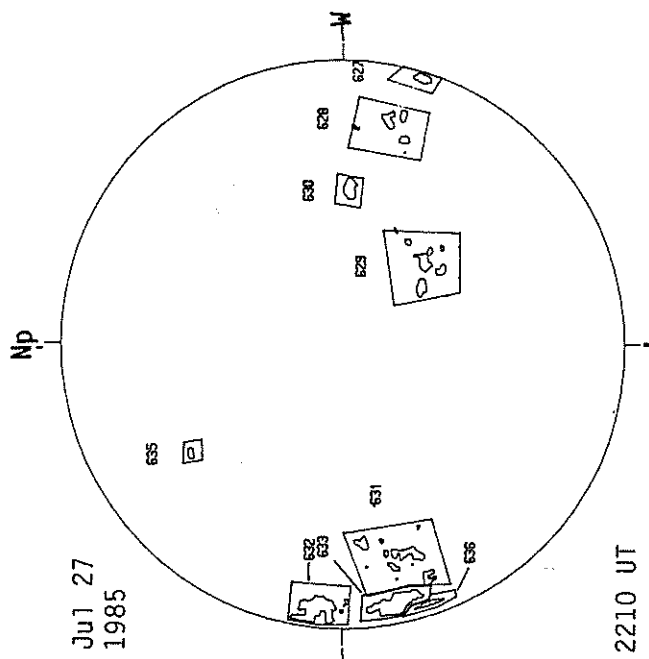


125
Late
Jul 85

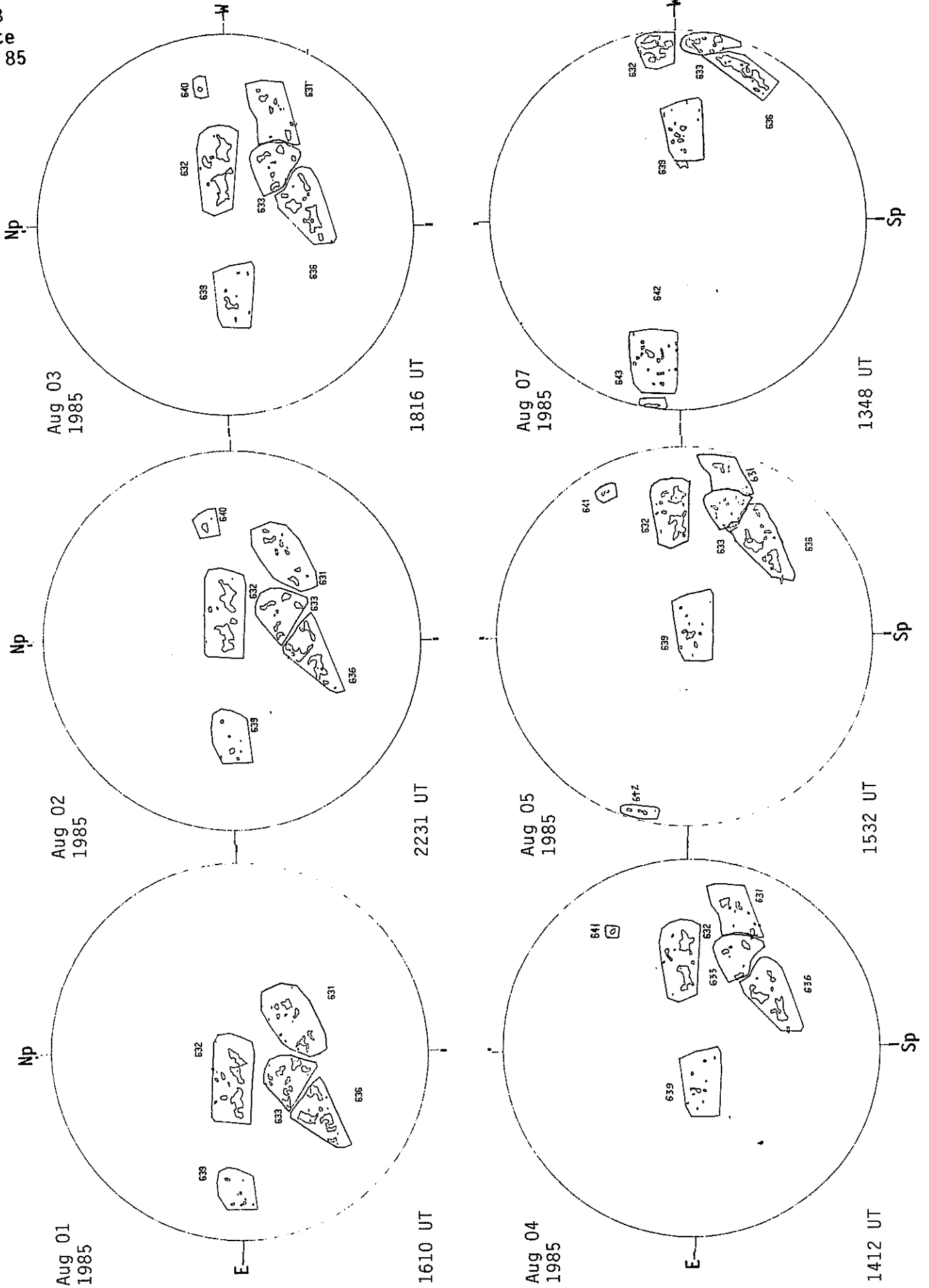
BIG BEAR SOLAR CALCIUM PLAGE REGIONS



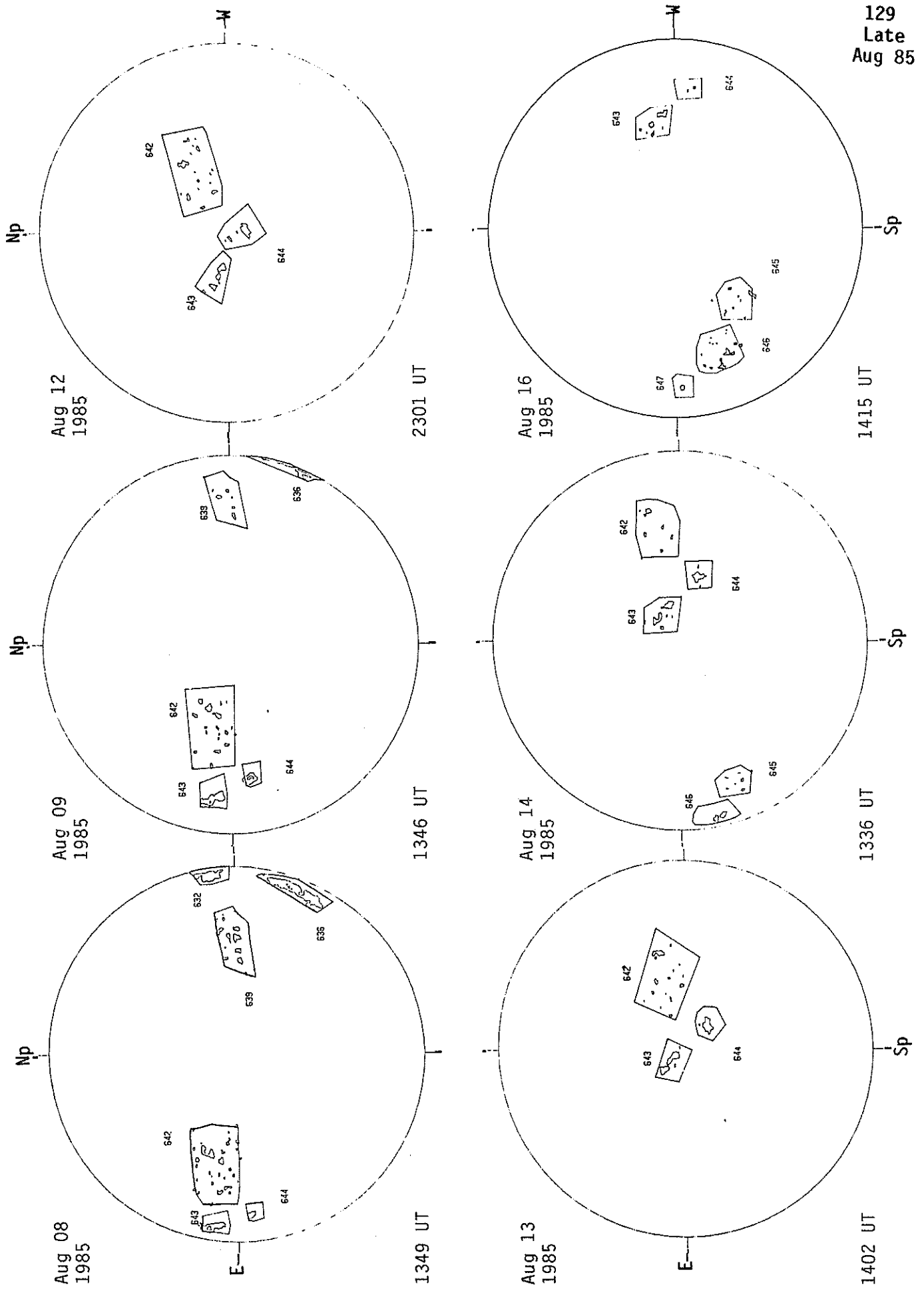
BIG BEAR SOLAR CALCIUM PLAGE REGIONS



BIG BEAR SOLAR CALCIUM PLAGE REGIONS



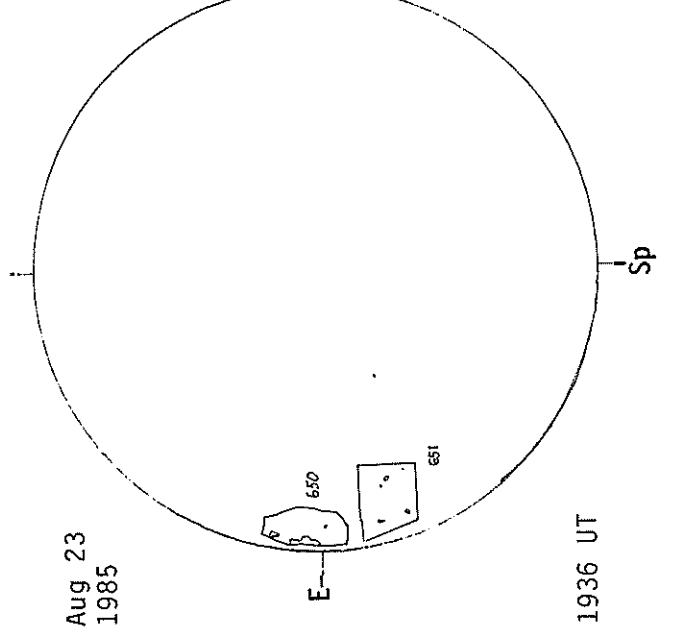
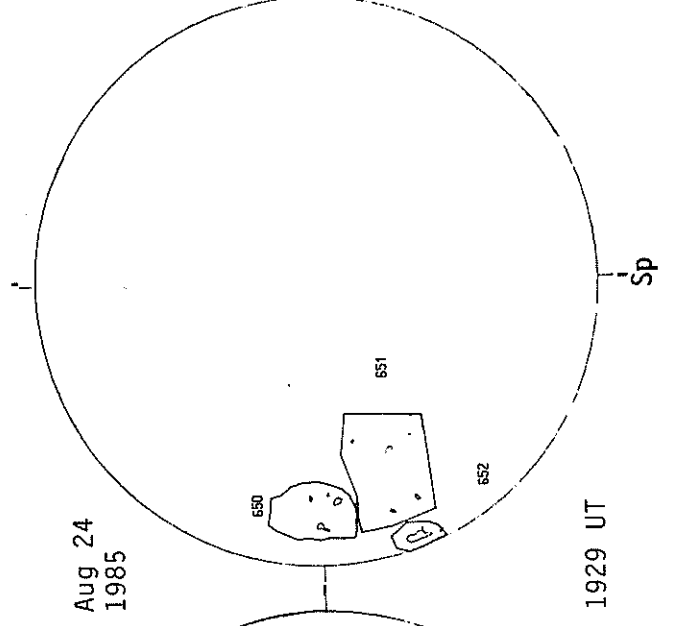
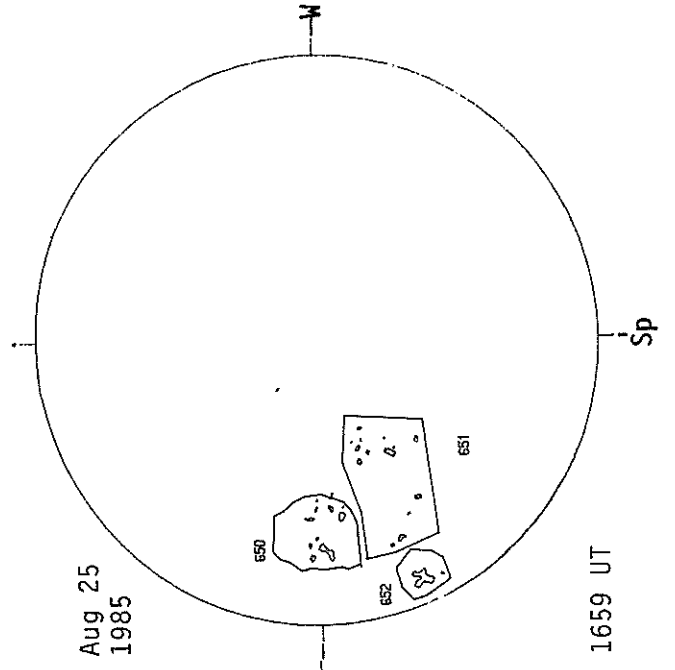
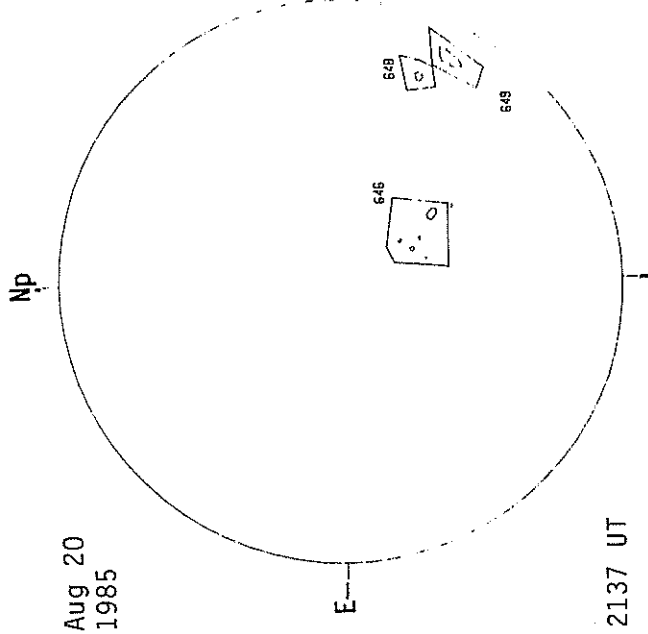
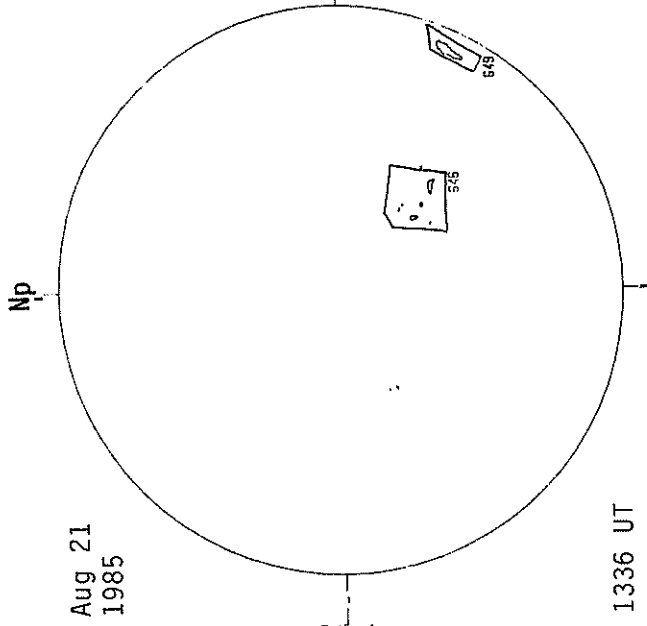
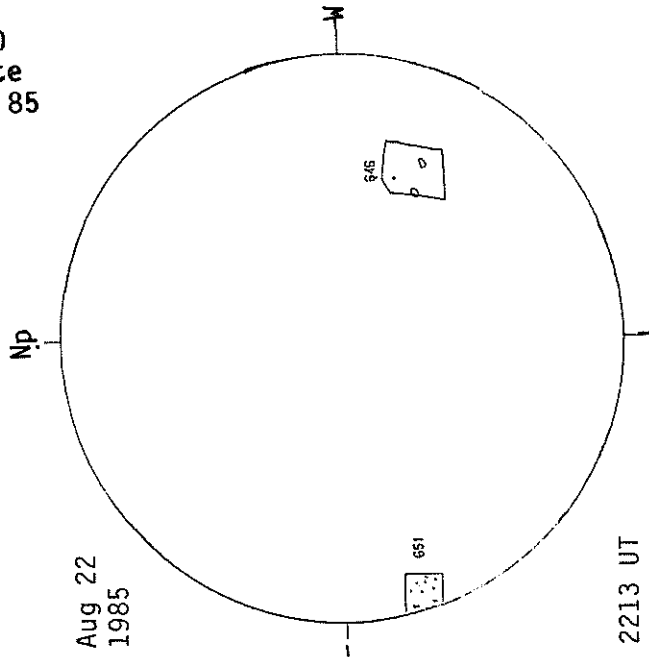
BIG BEAR SOLAR CALCIUM PLAGE REGIONS



129
Late
Aug 85

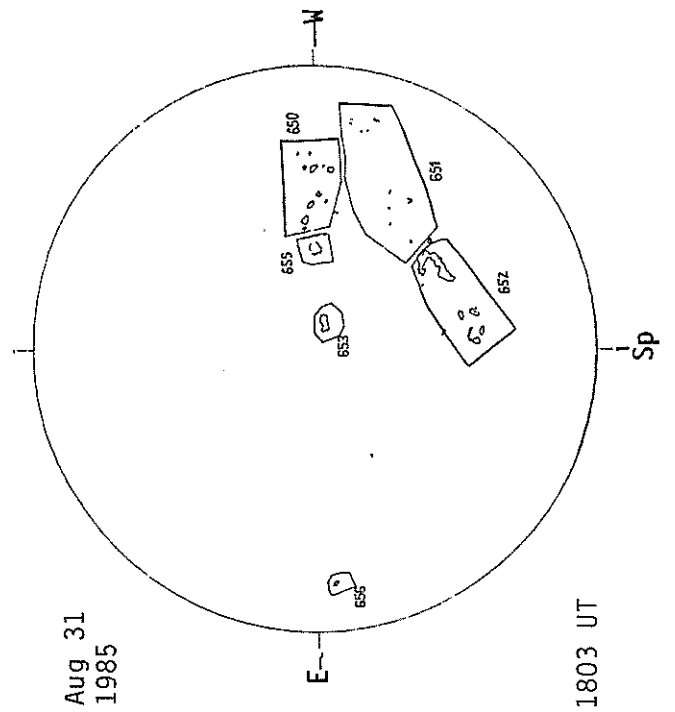
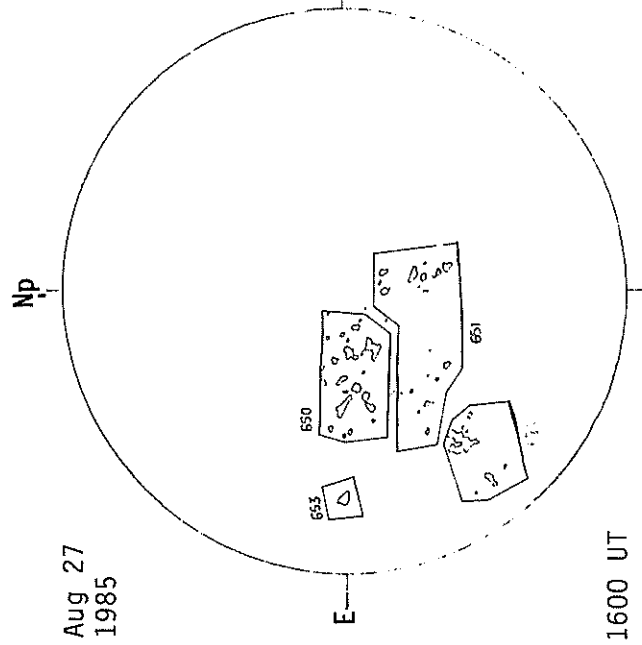
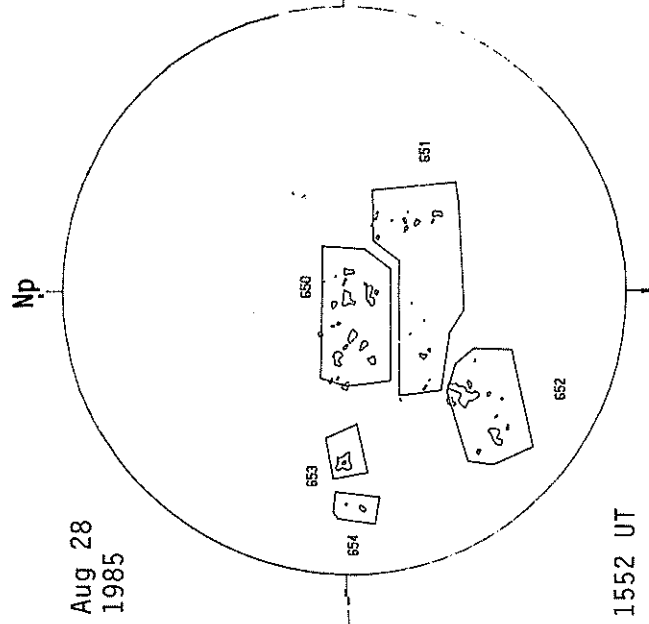
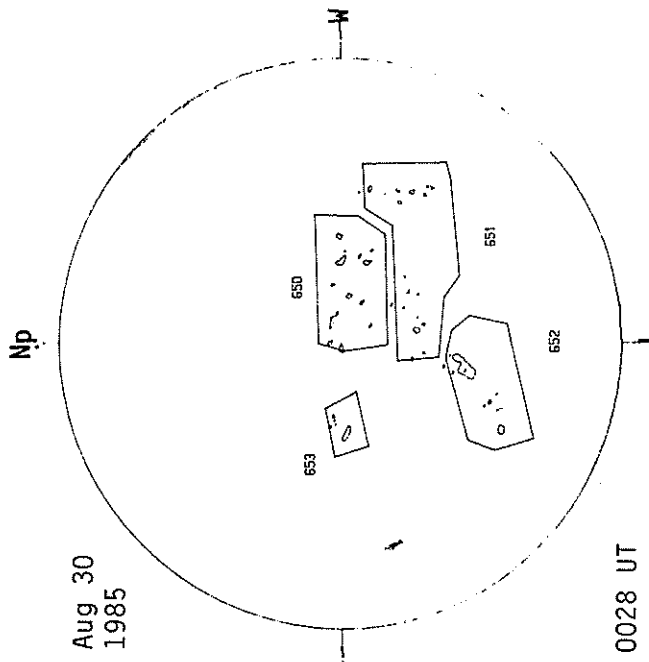
130
Late
Aug 85

BIG BEAR SOLAR CALCIUM PLAGE REGIONS

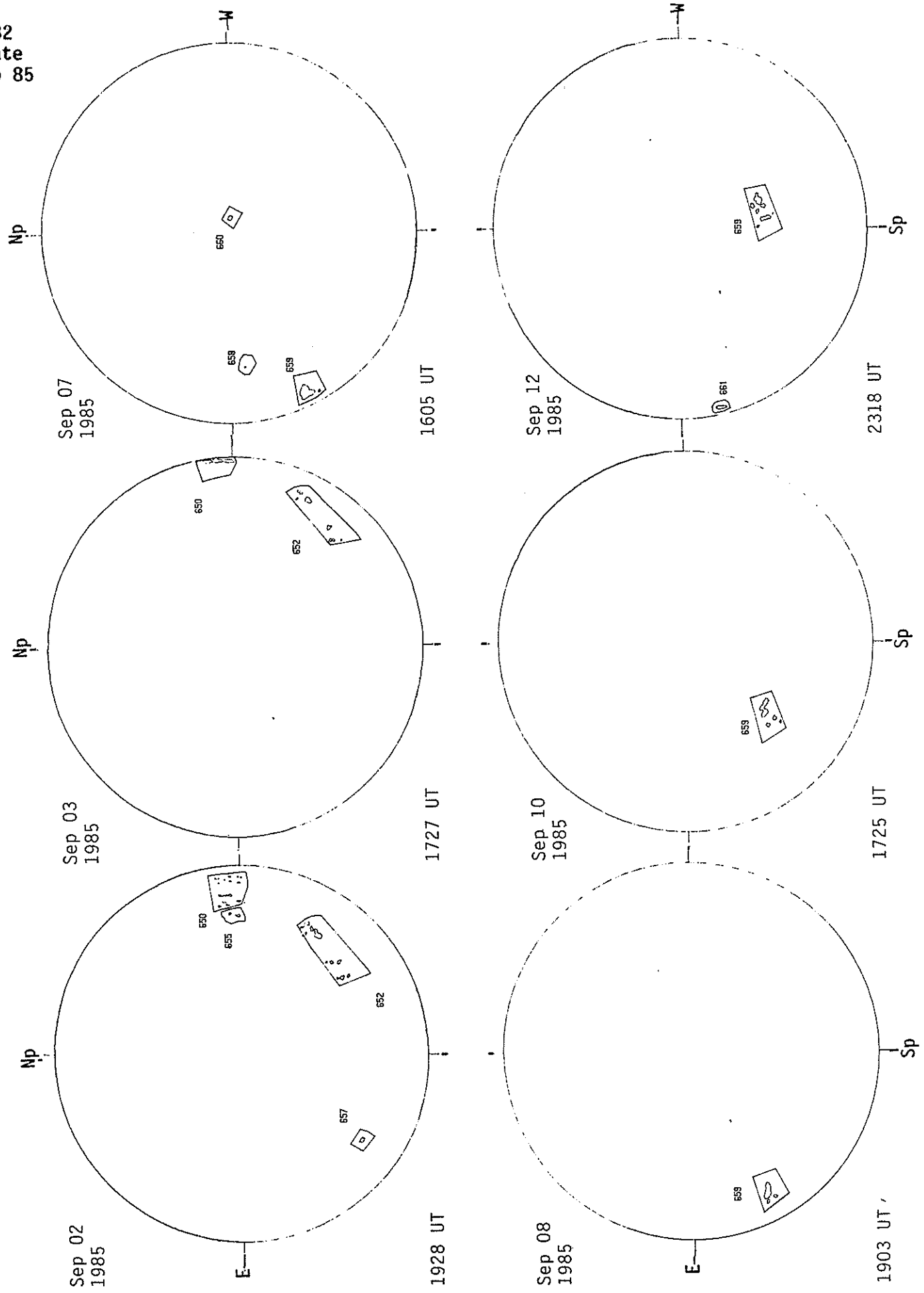


BIG BEAR SOLAR CALCIUM PLAGE REGIONS

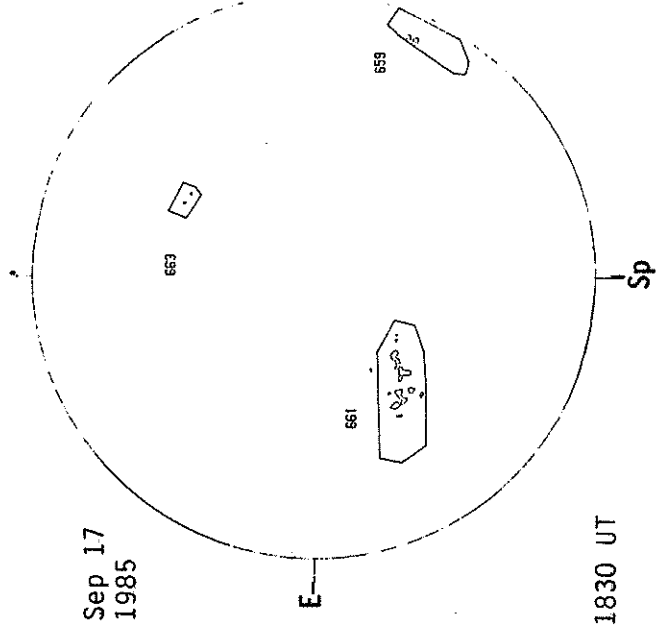
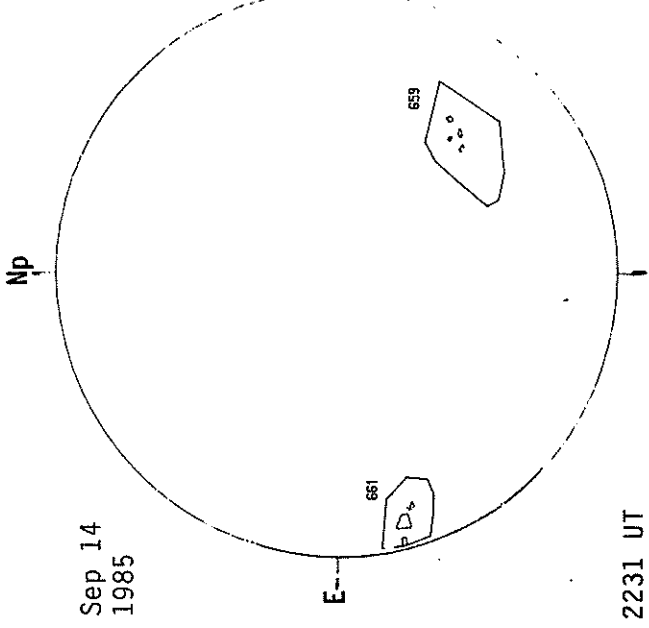
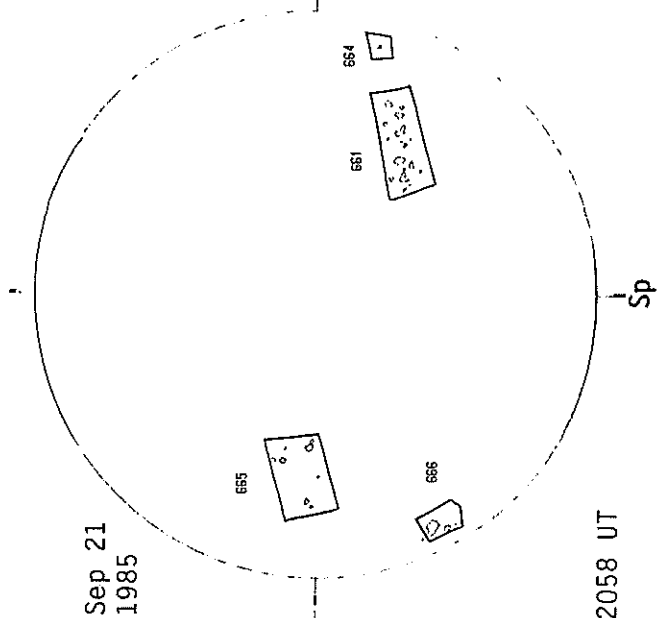
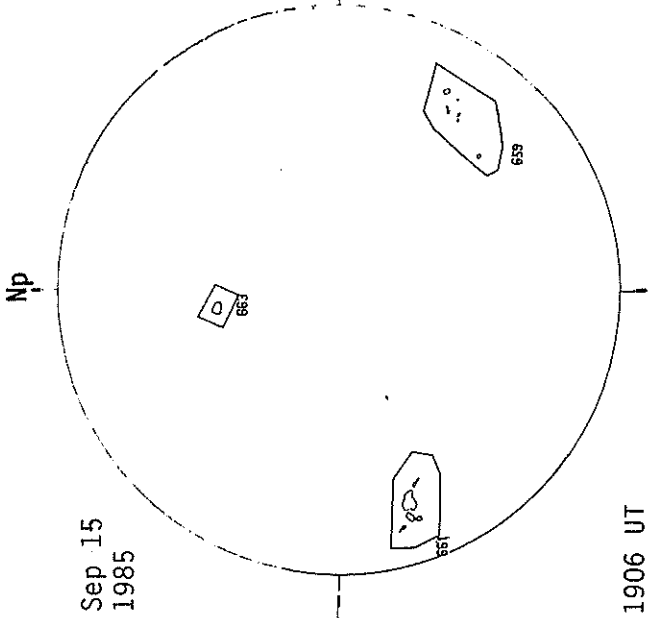
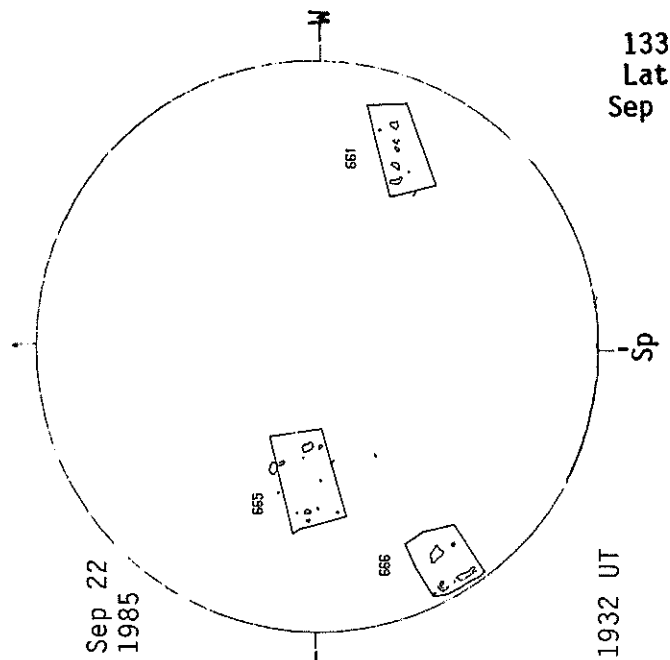
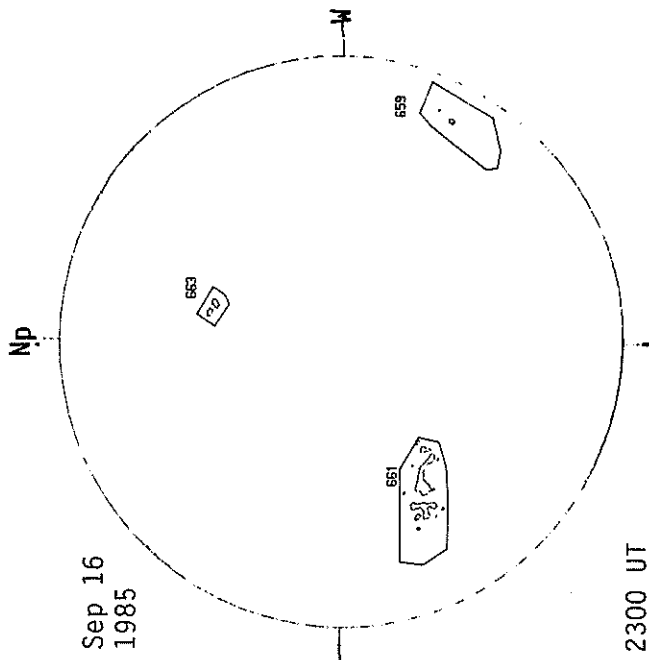
131
Late
Aug 85



BIG BEAR SOLAR CALCIUM PLAGE REGIONS

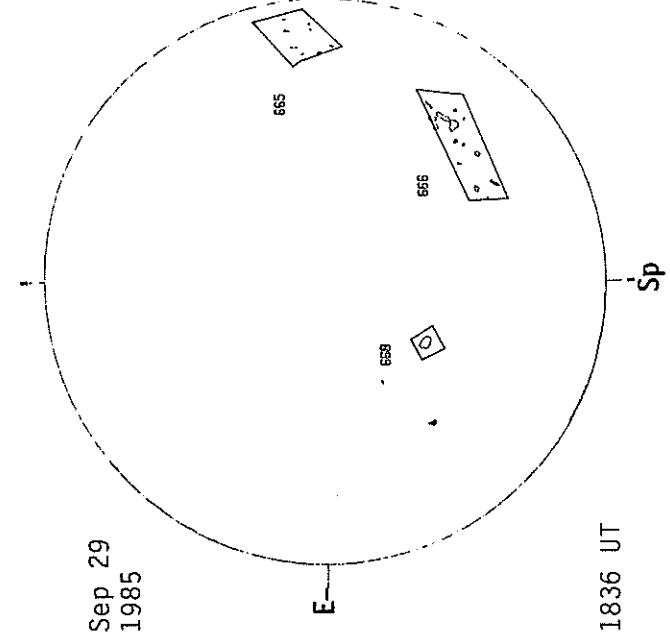
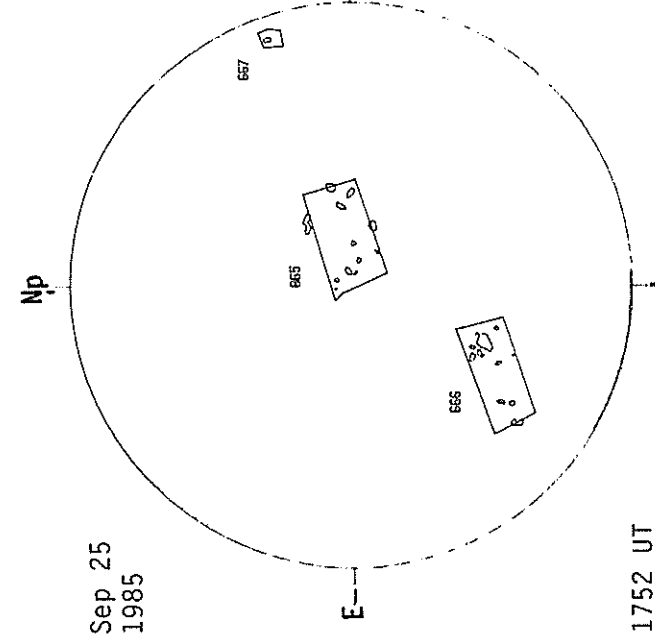
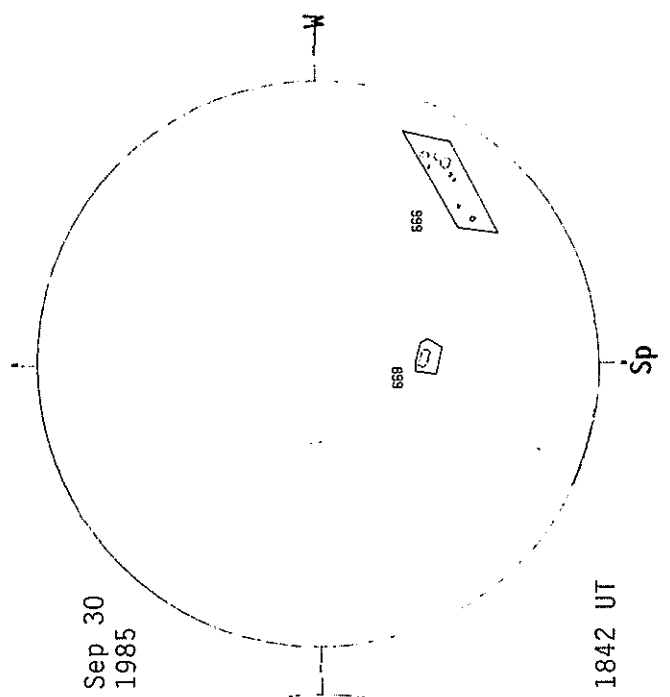
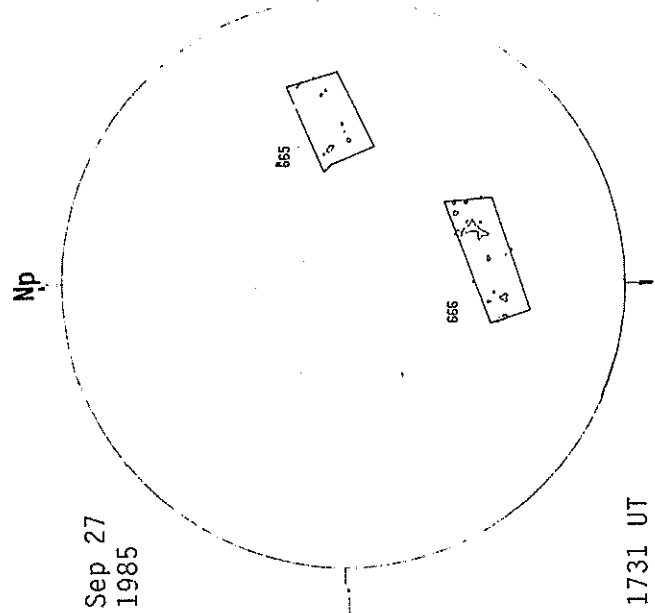
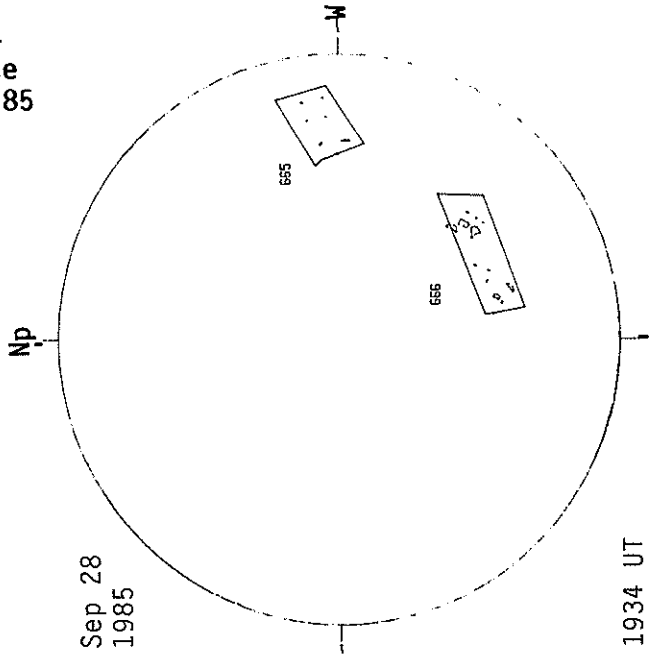


BIG BEAR SOLAR CALCIUM PLAGE REGIONS

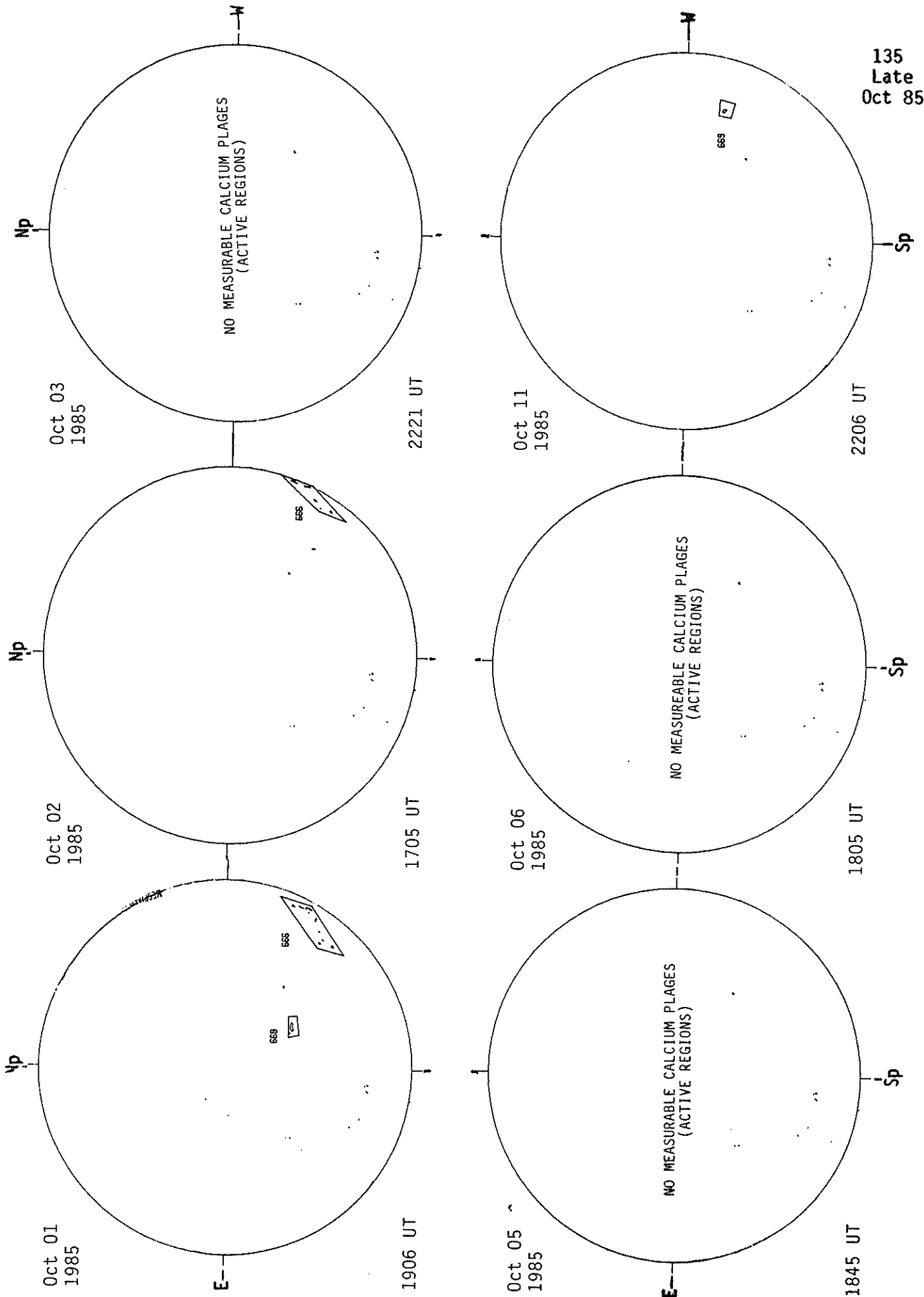


134
Late
Sep 85

BIG BEAR SOLAR CALCIUM PLAGE REGIONS

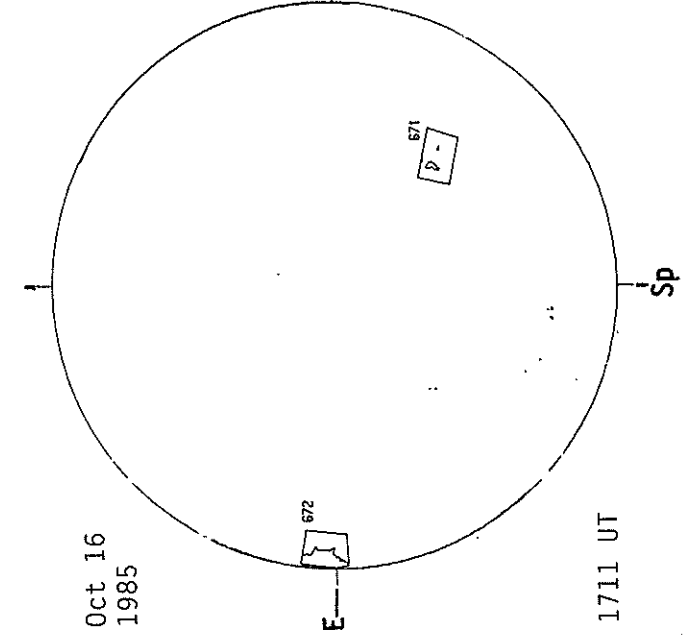
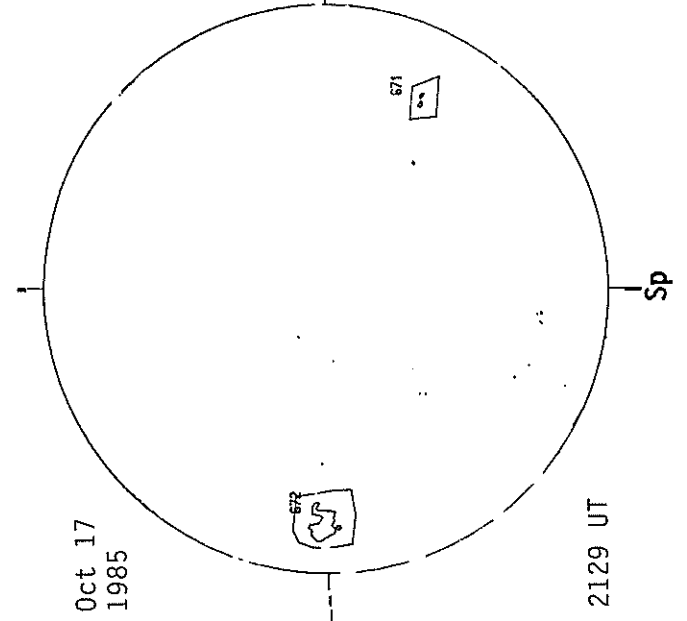
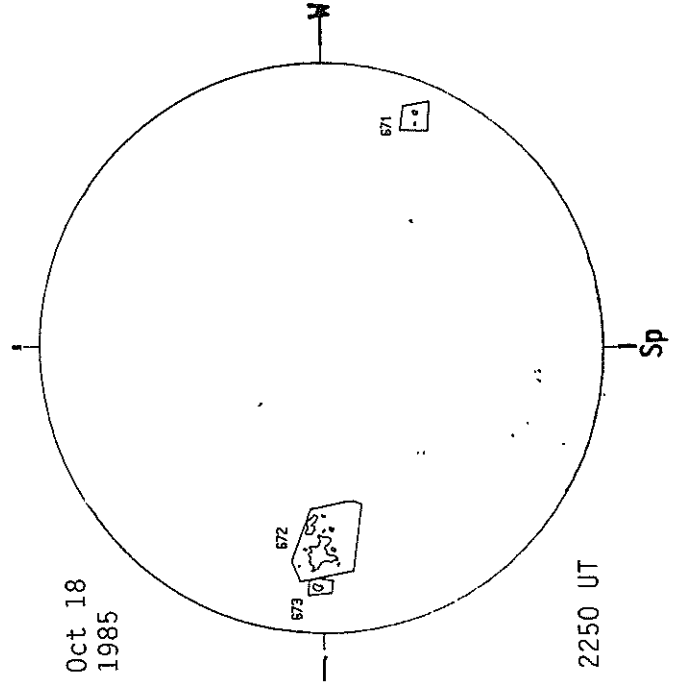
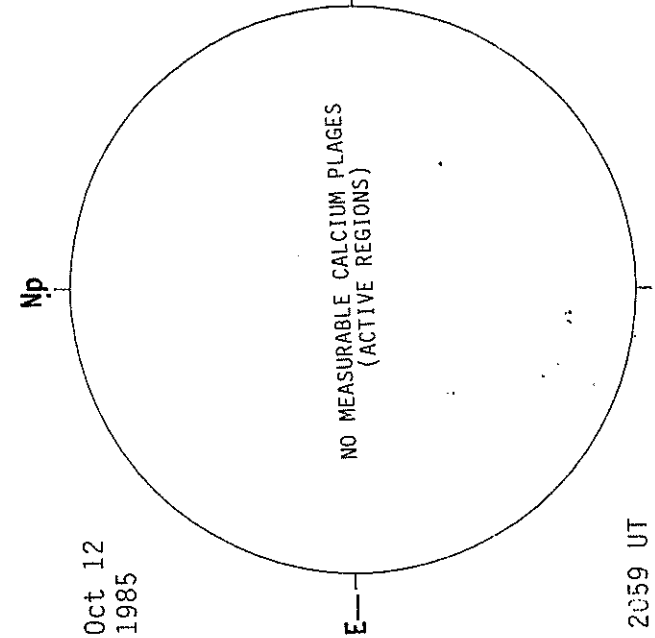
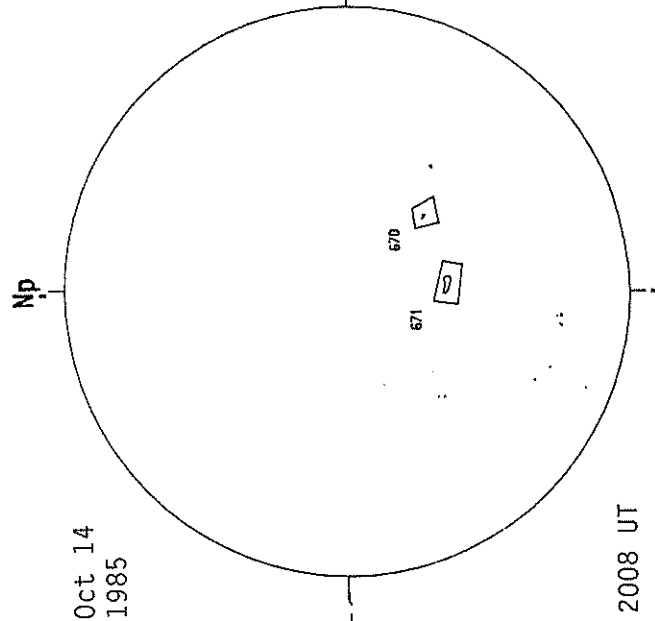
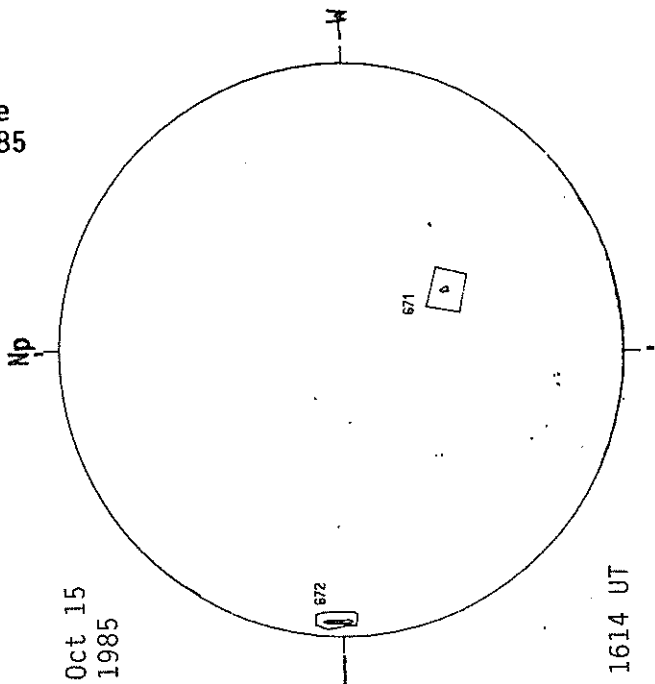


BIG BEAR SOLAR CALCIUM PLAGE REGIONS

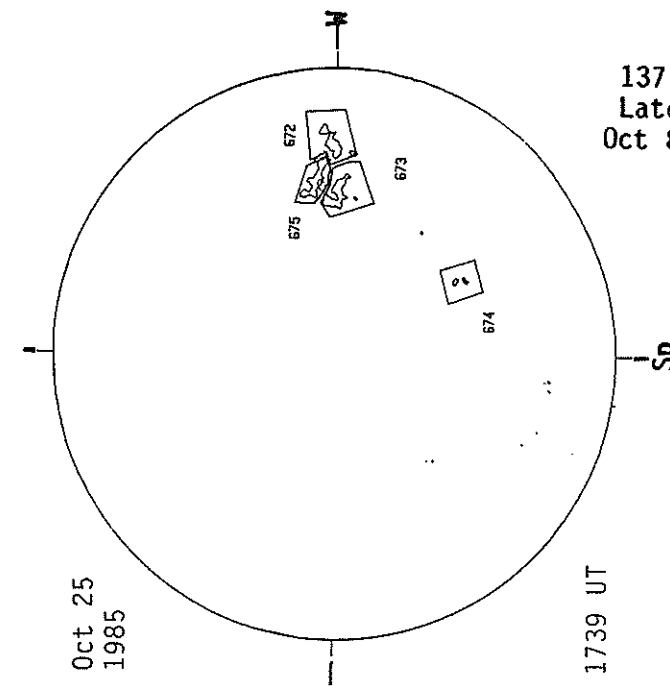
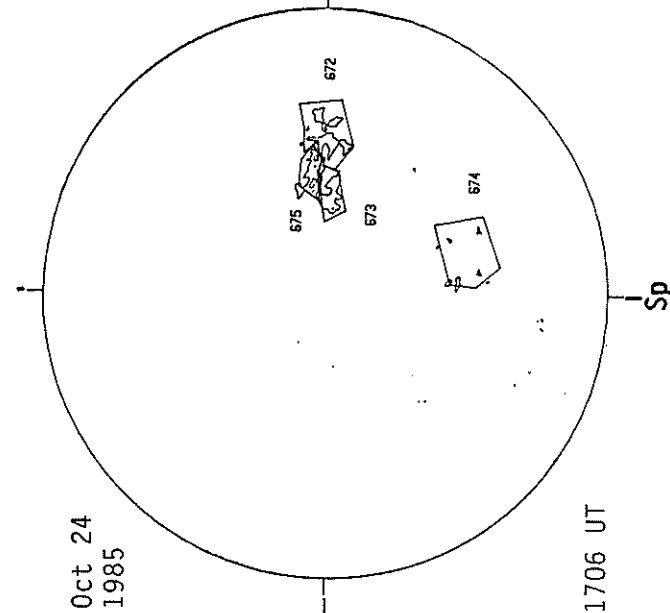
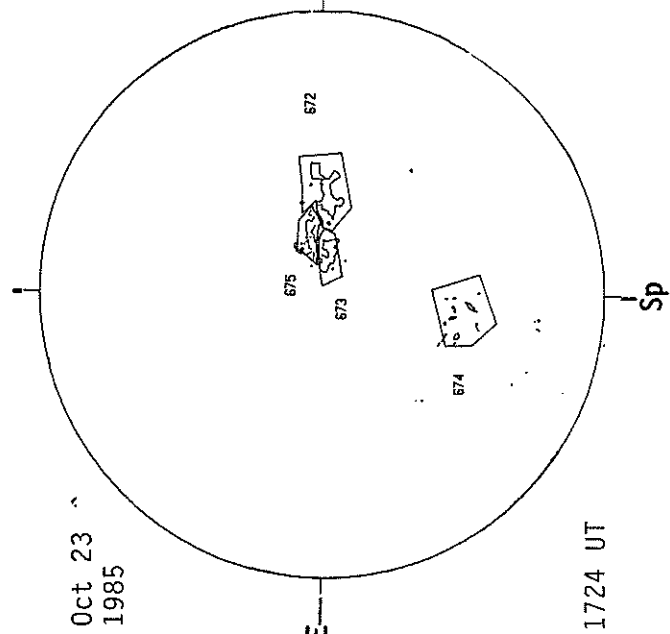
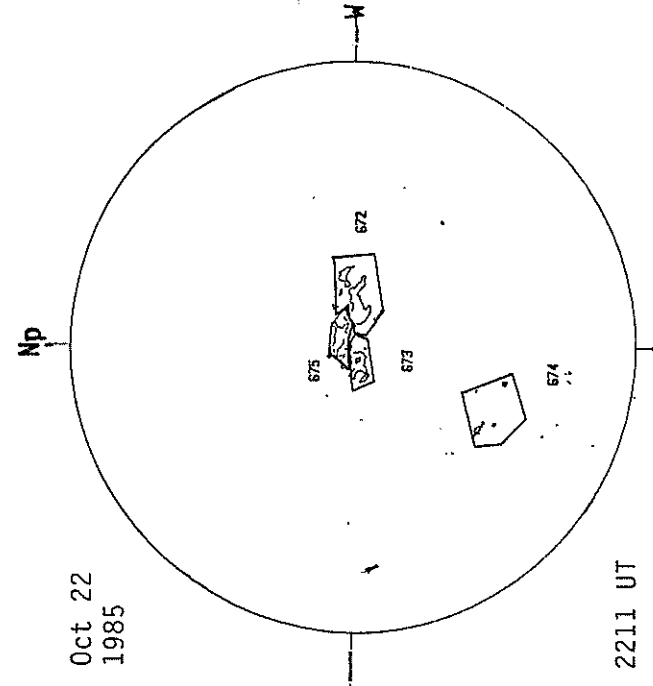
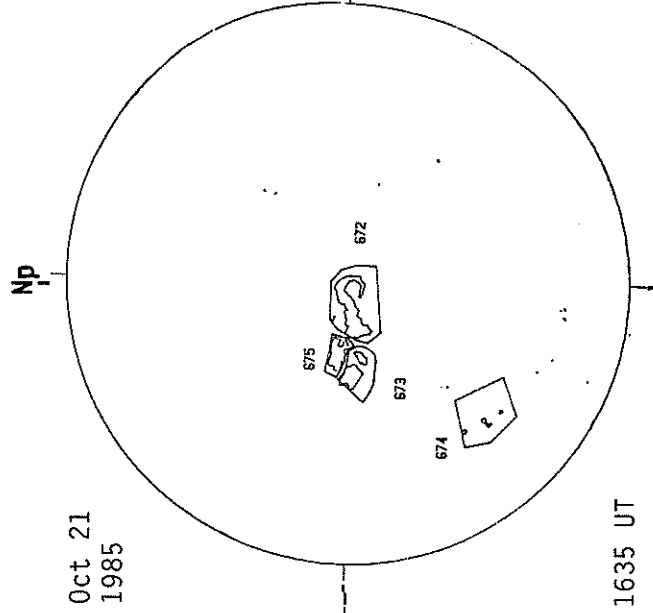
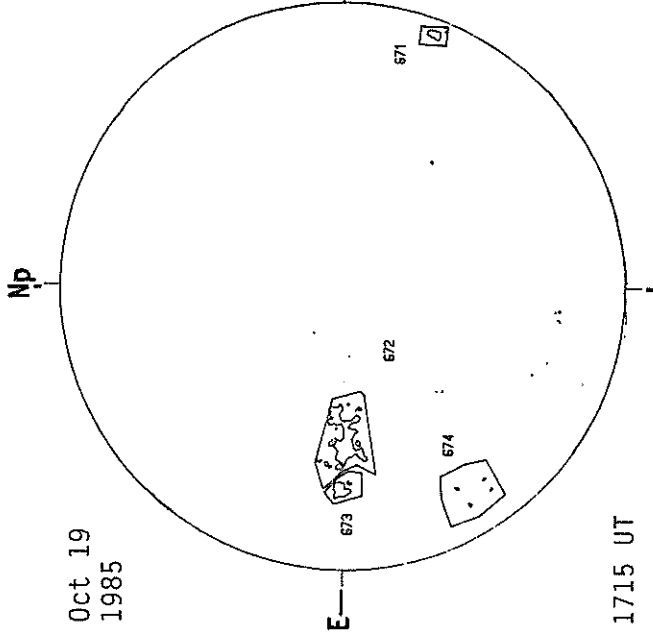


135
Late
Oct 85

BIG BEAR SOLAR CALCIUM PLAGE REGIONS



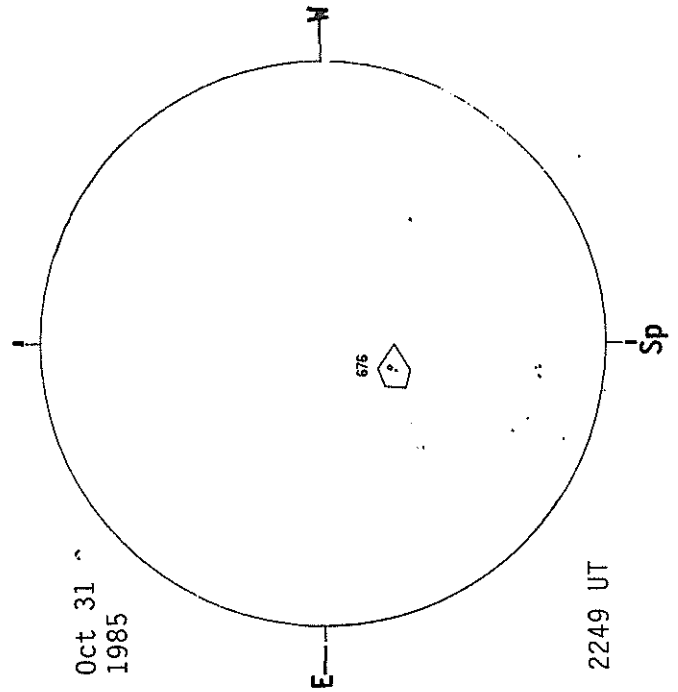
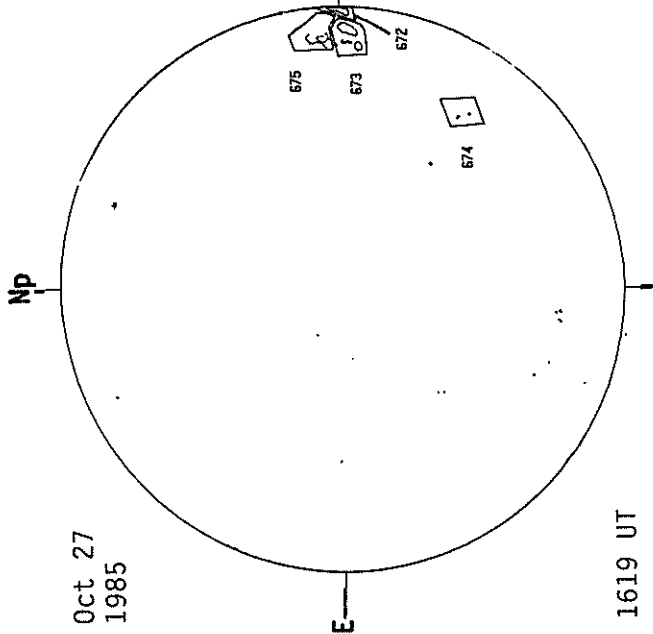
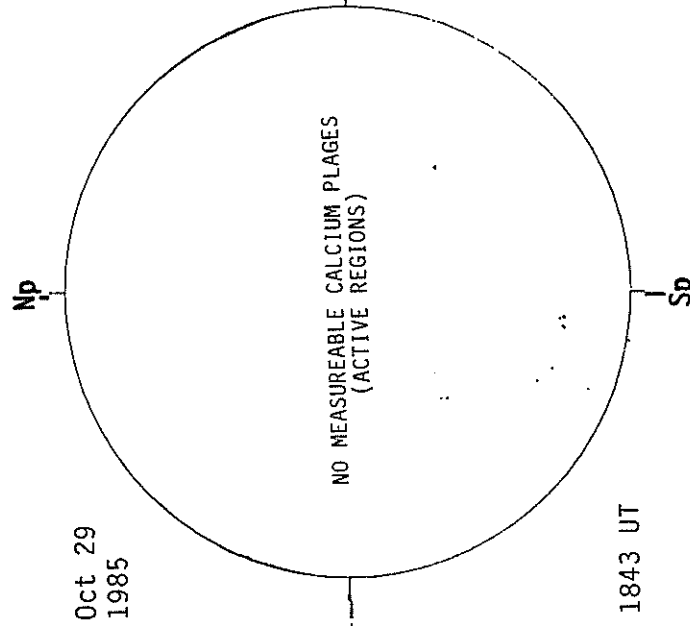
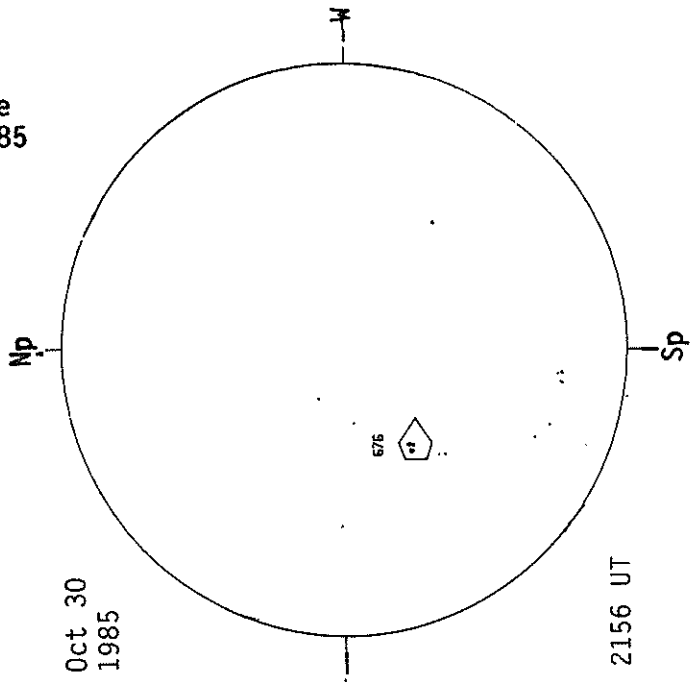
BIG BEAR SOLAR CALCIUM PLAGE REGIONS

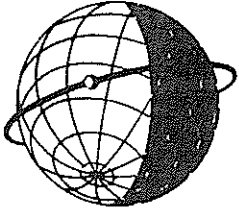


137
Late
Oct 85

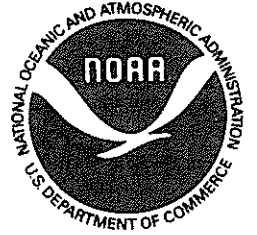
138
Late
Oct 85

BIG BEAR SOLAR CALCIUM PLAGE REGIONS





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."