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Data for April, March 1994, and Late Data

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SOLAR-GEOPHYSICAL DATA

Number 597

(Issued in Two Parts)

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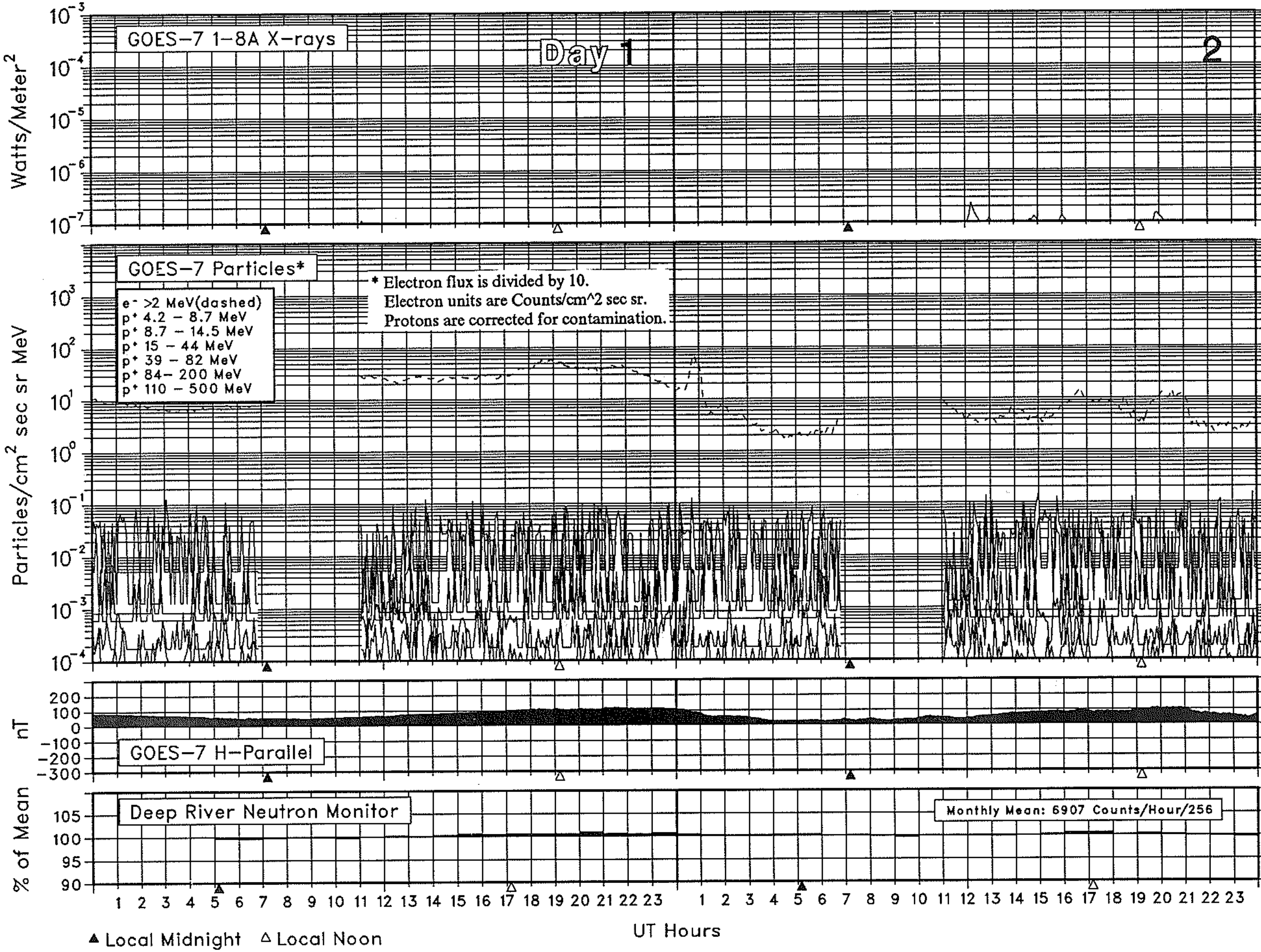

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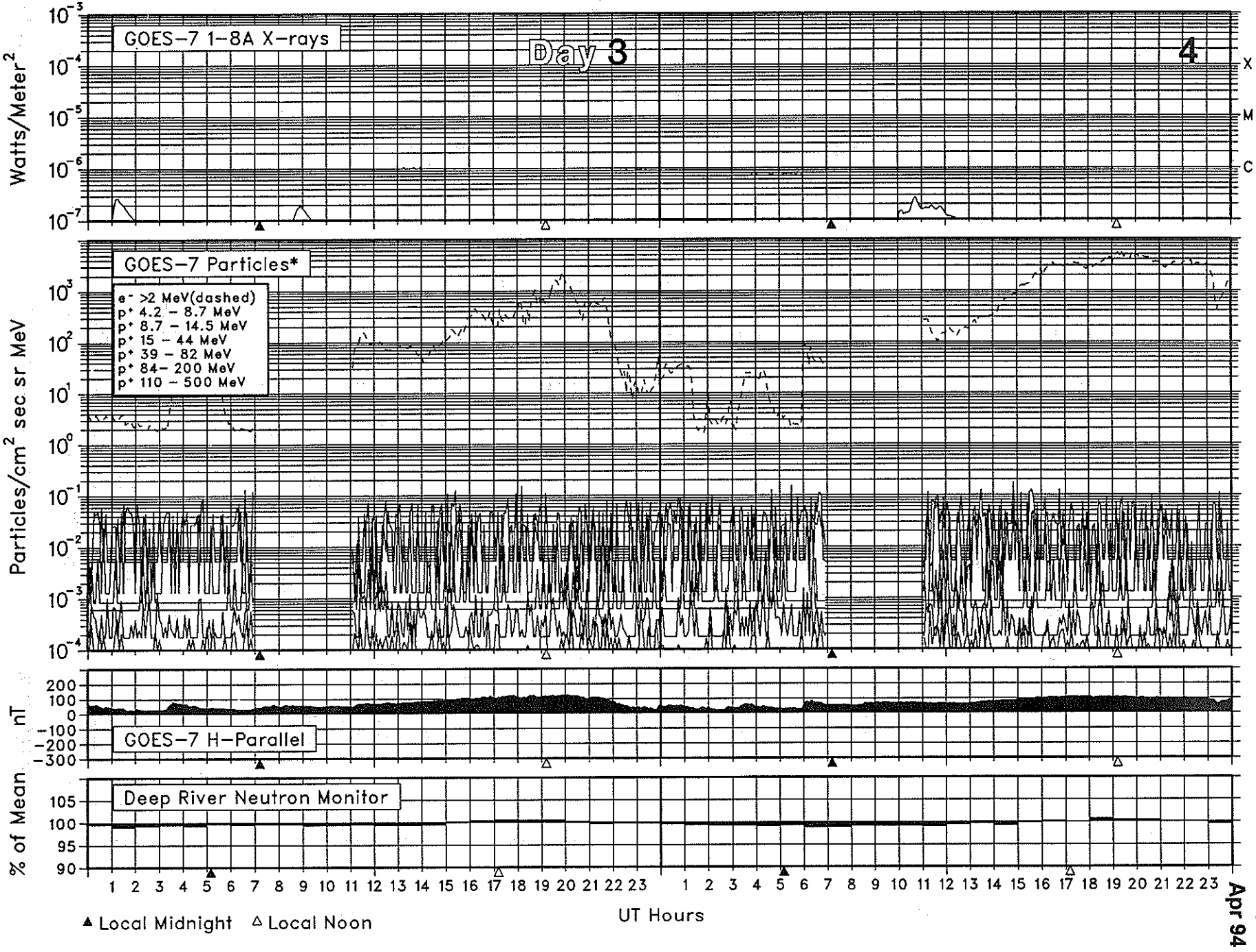

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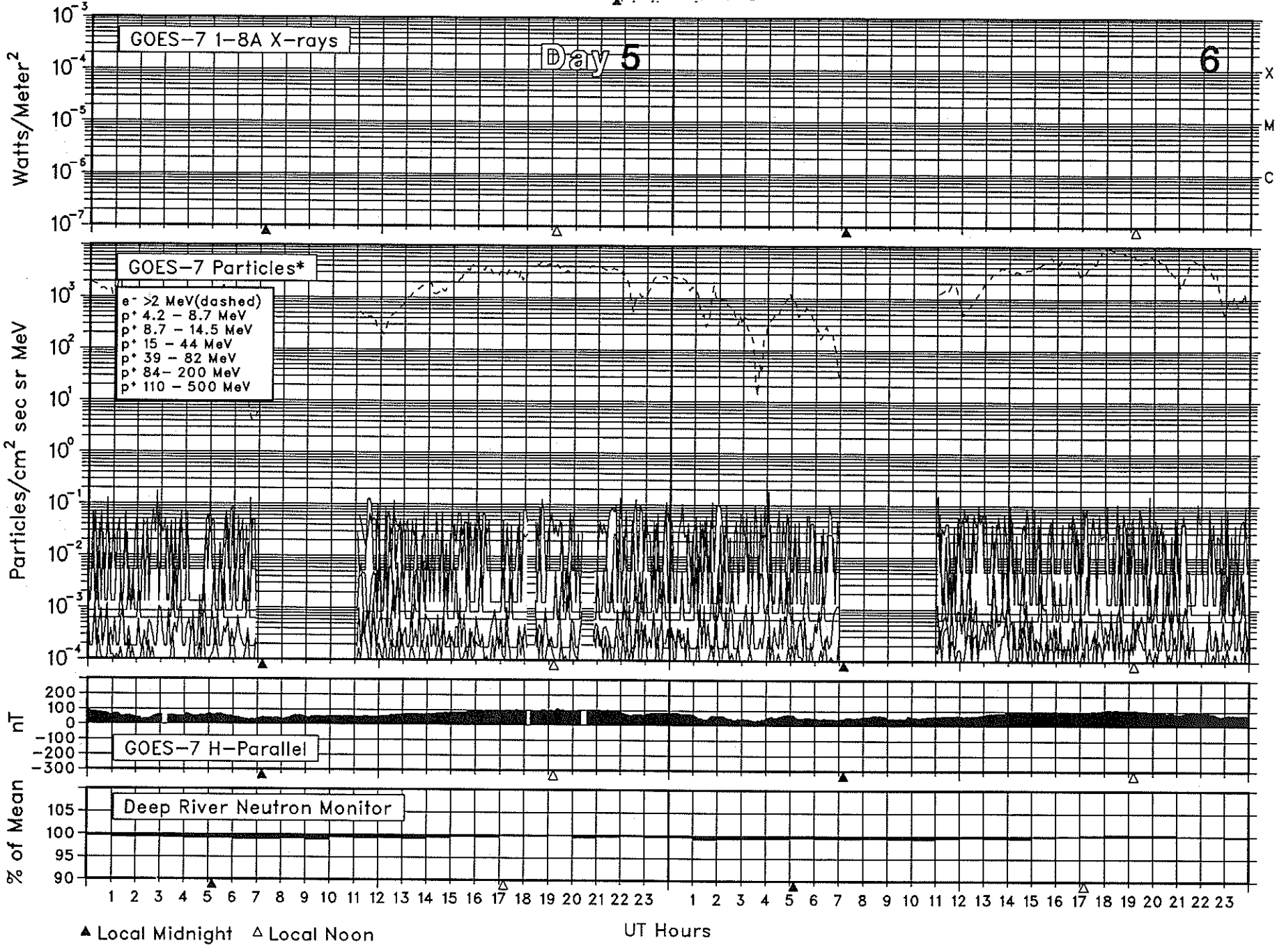

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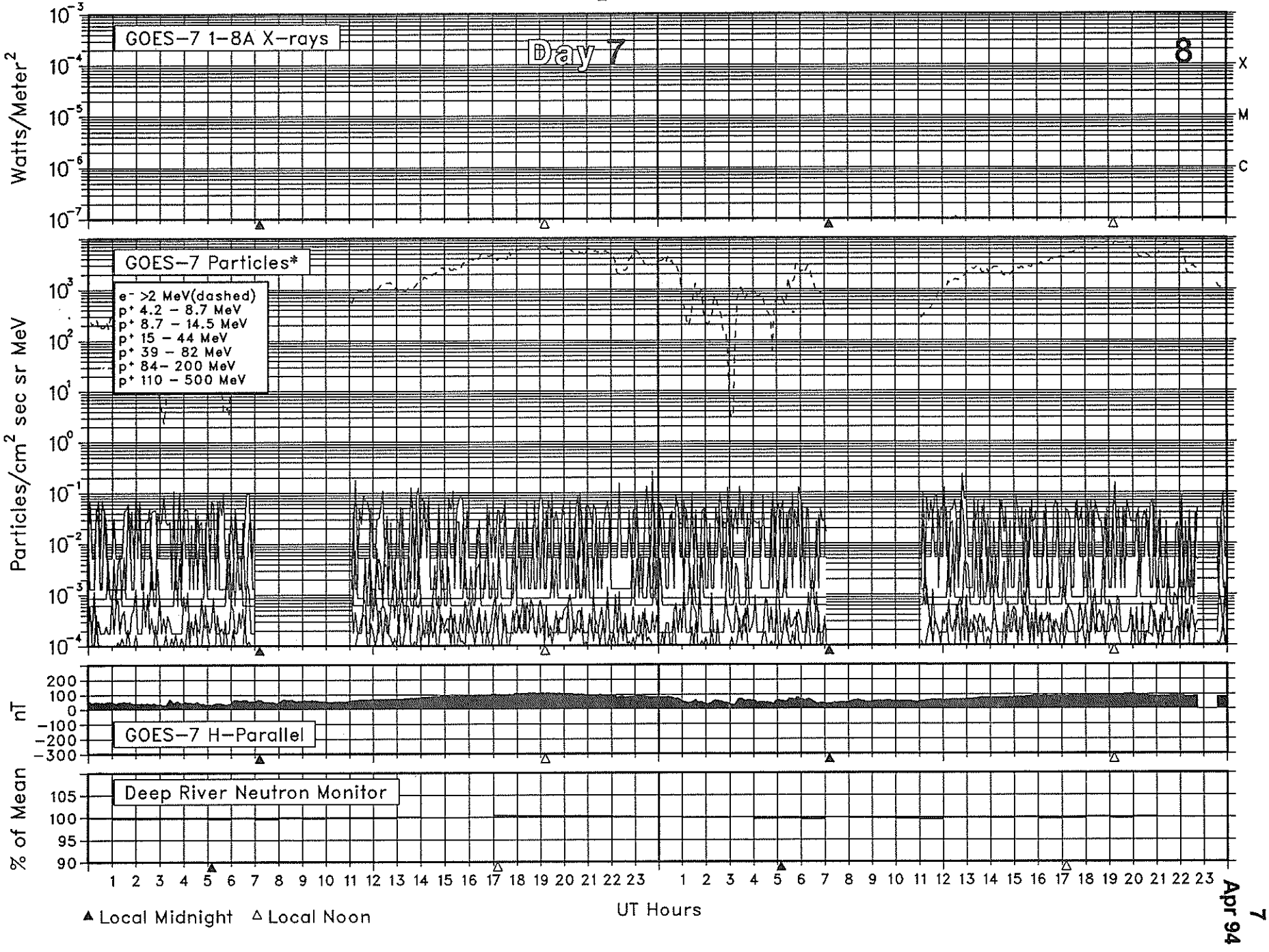

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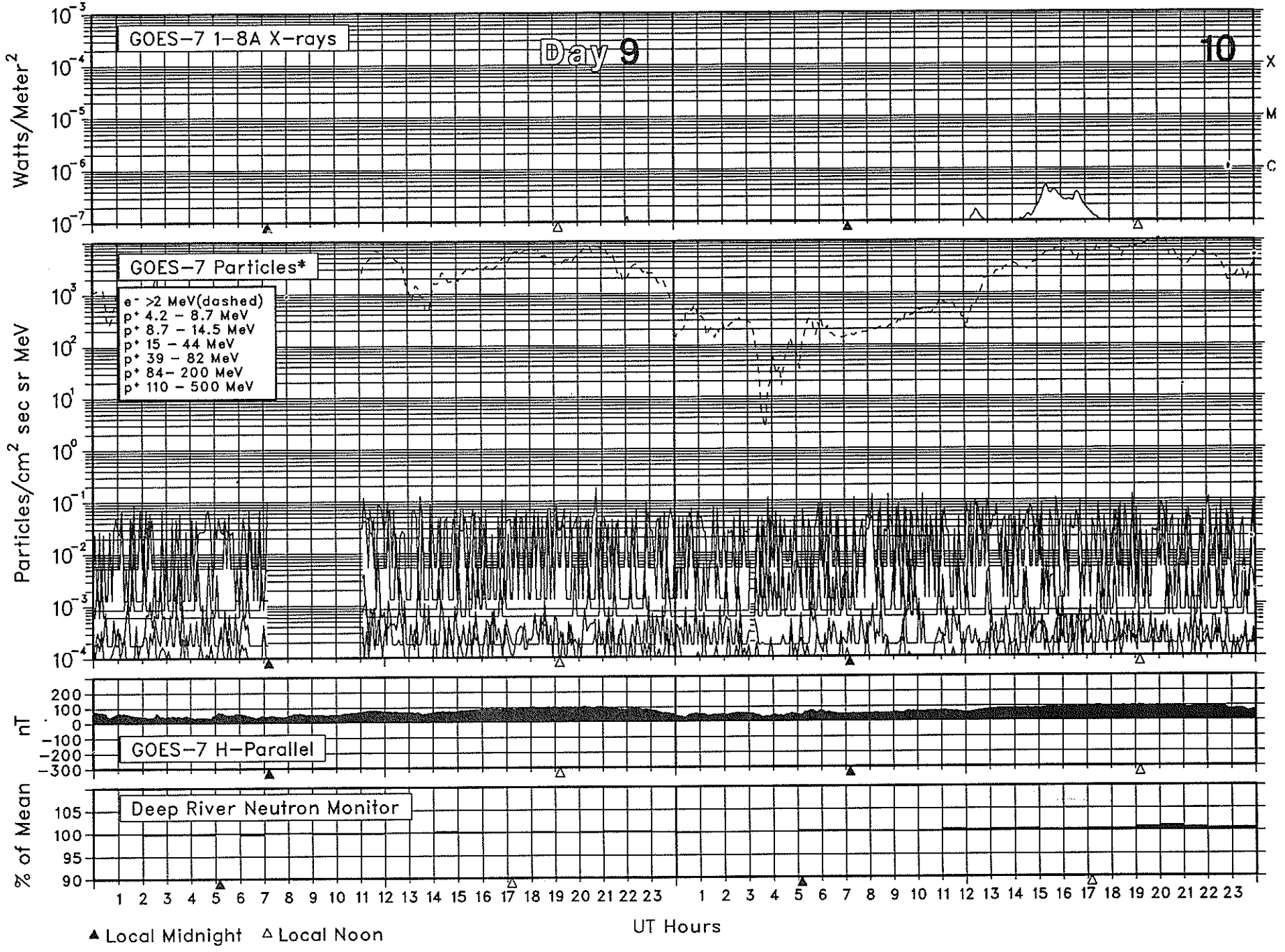

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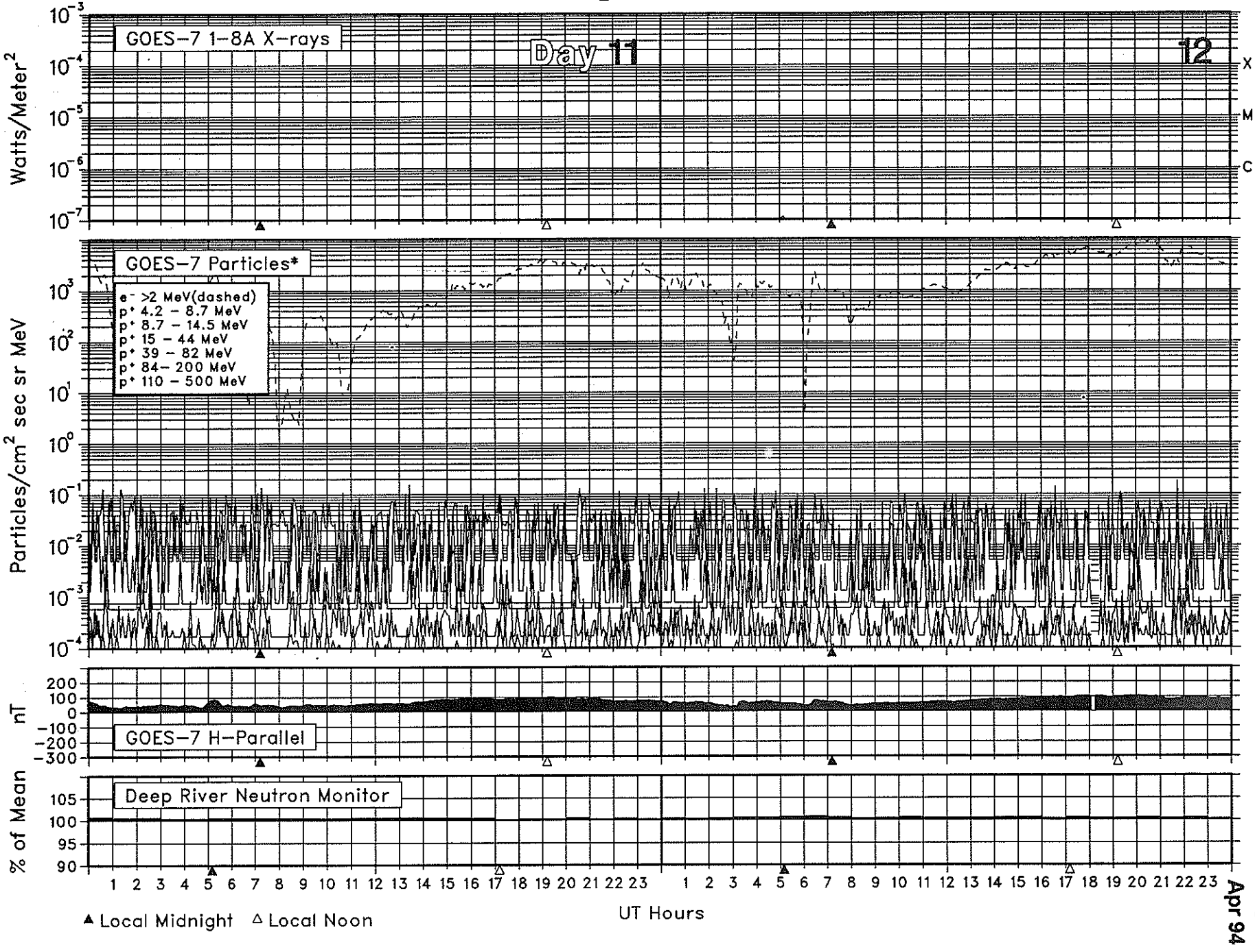

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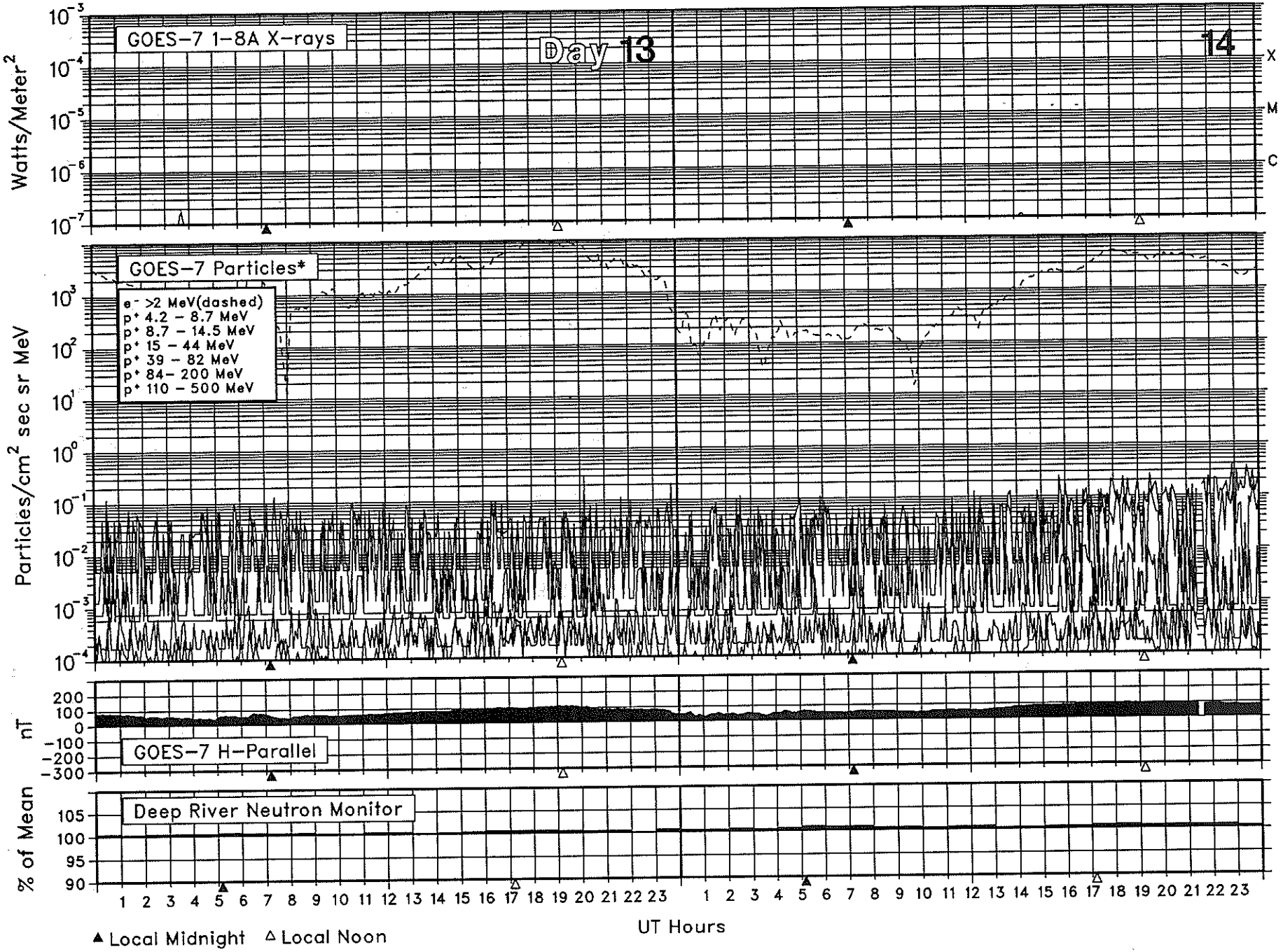

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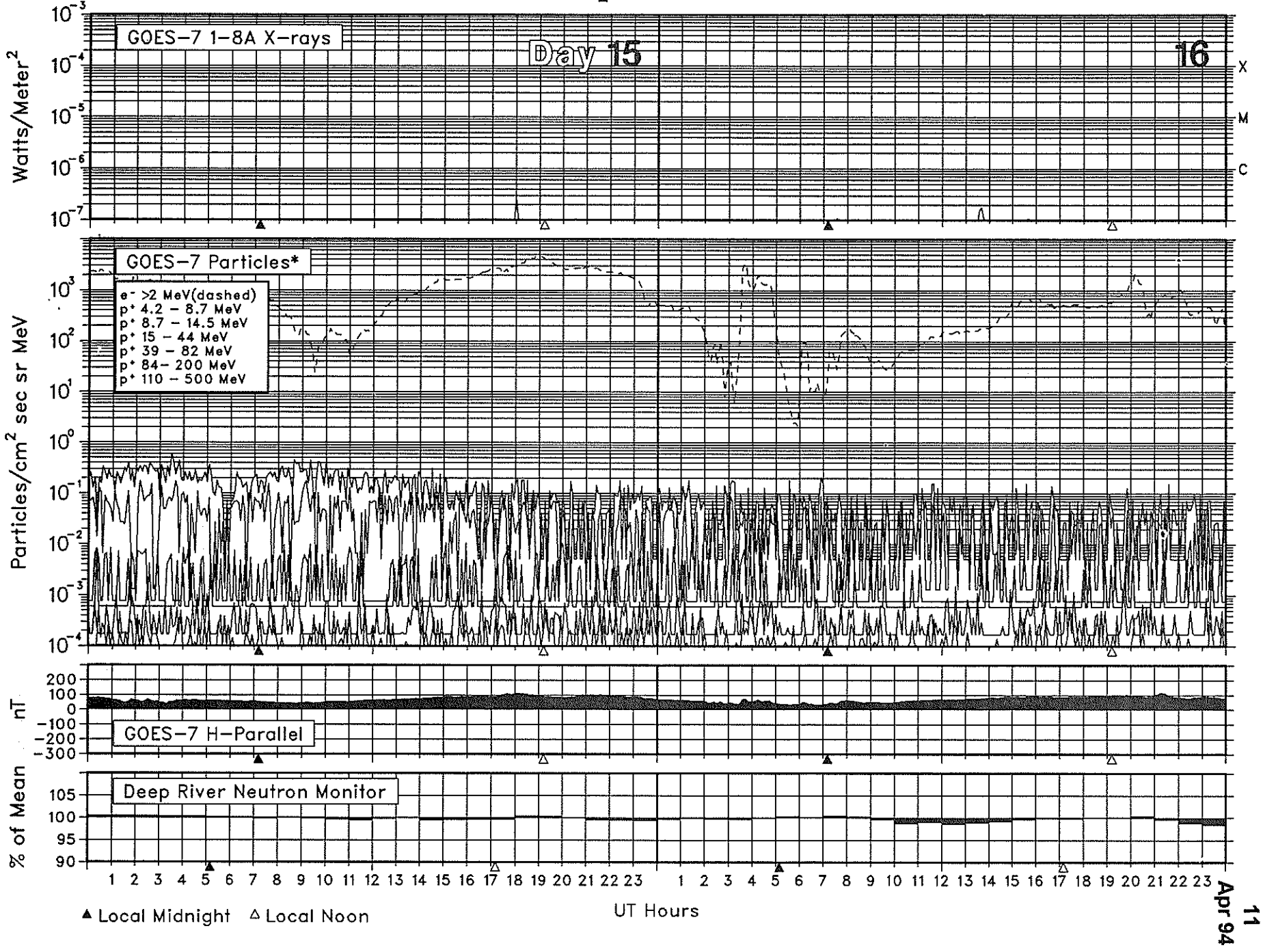

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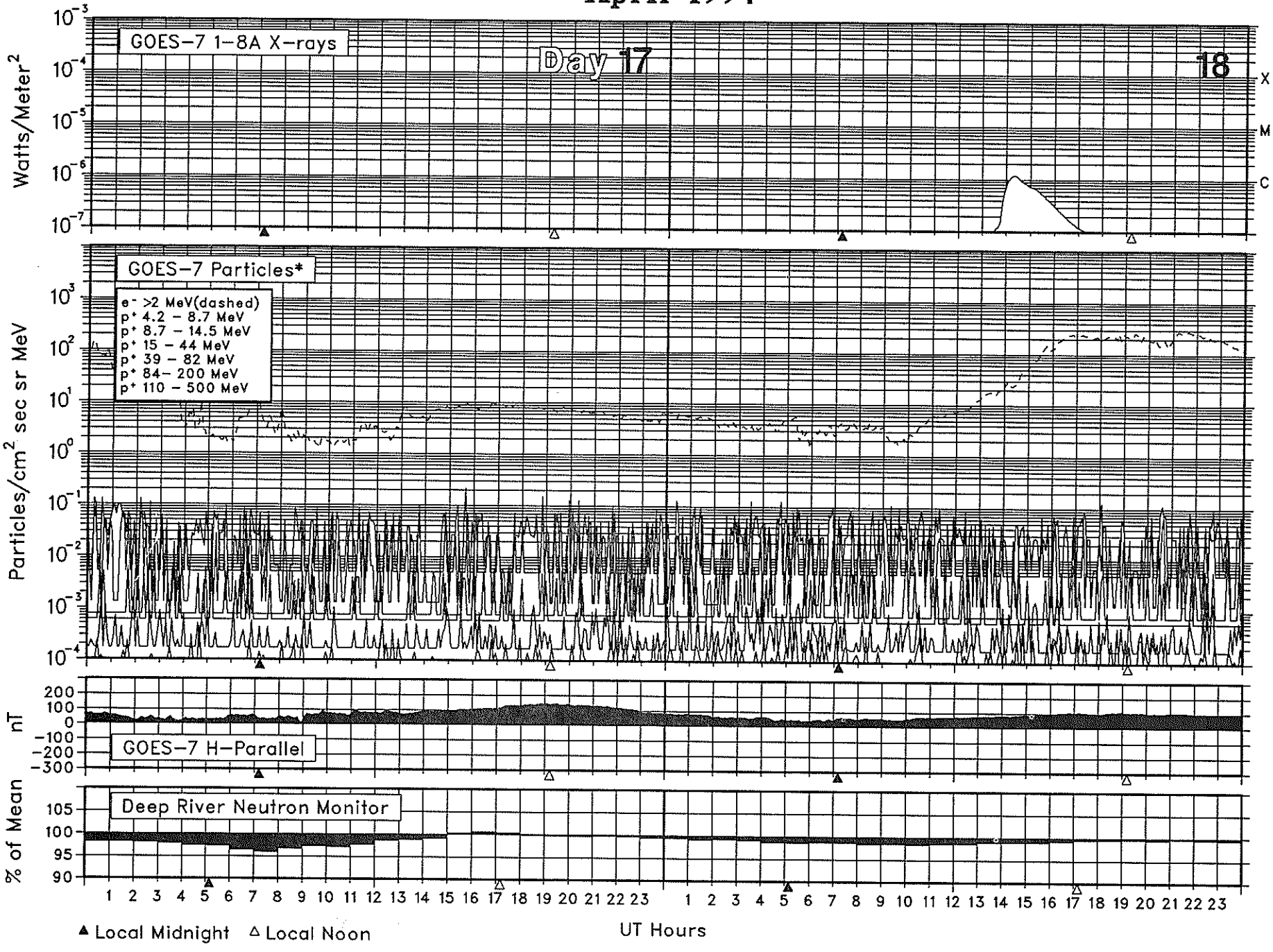

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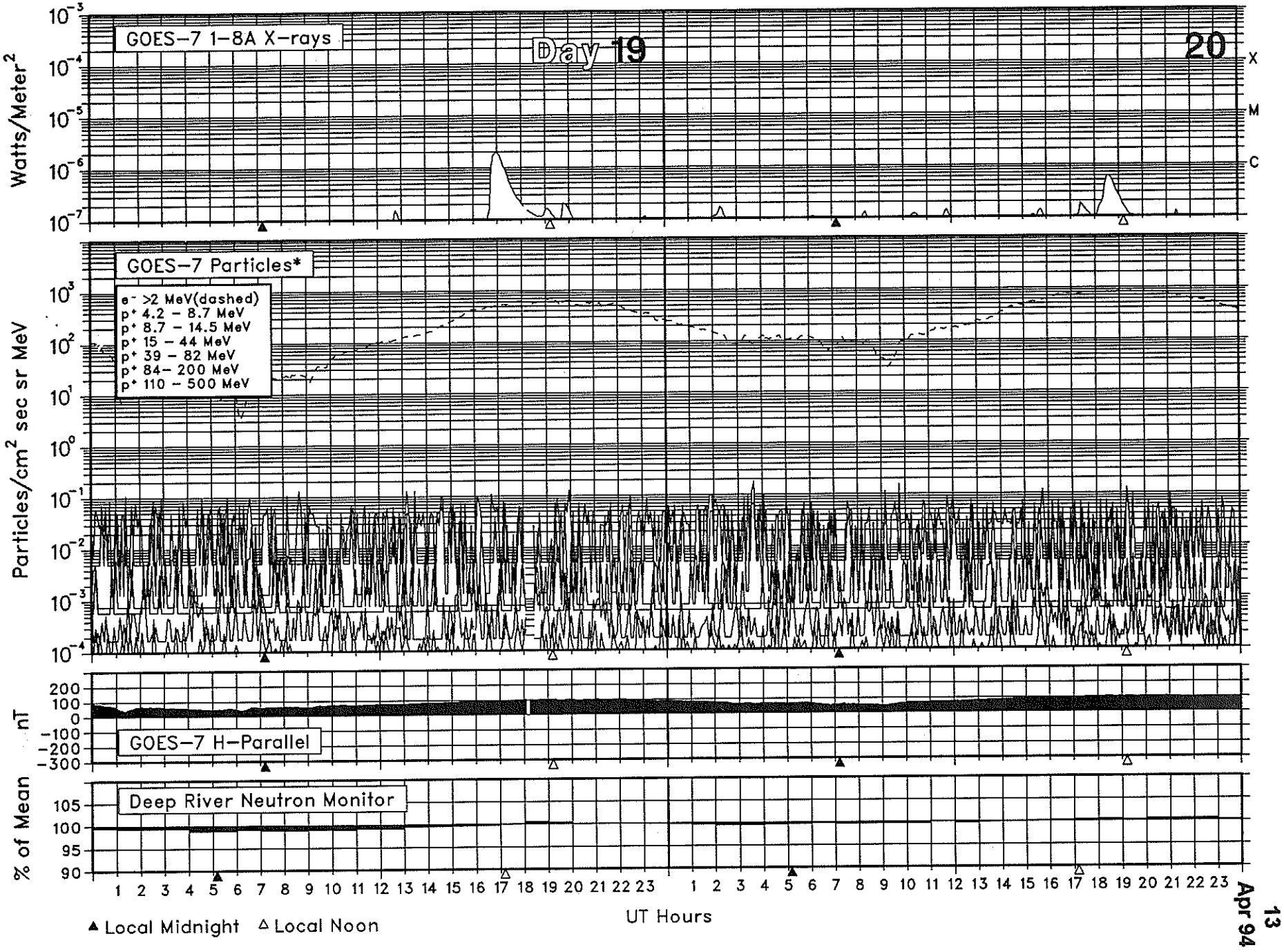

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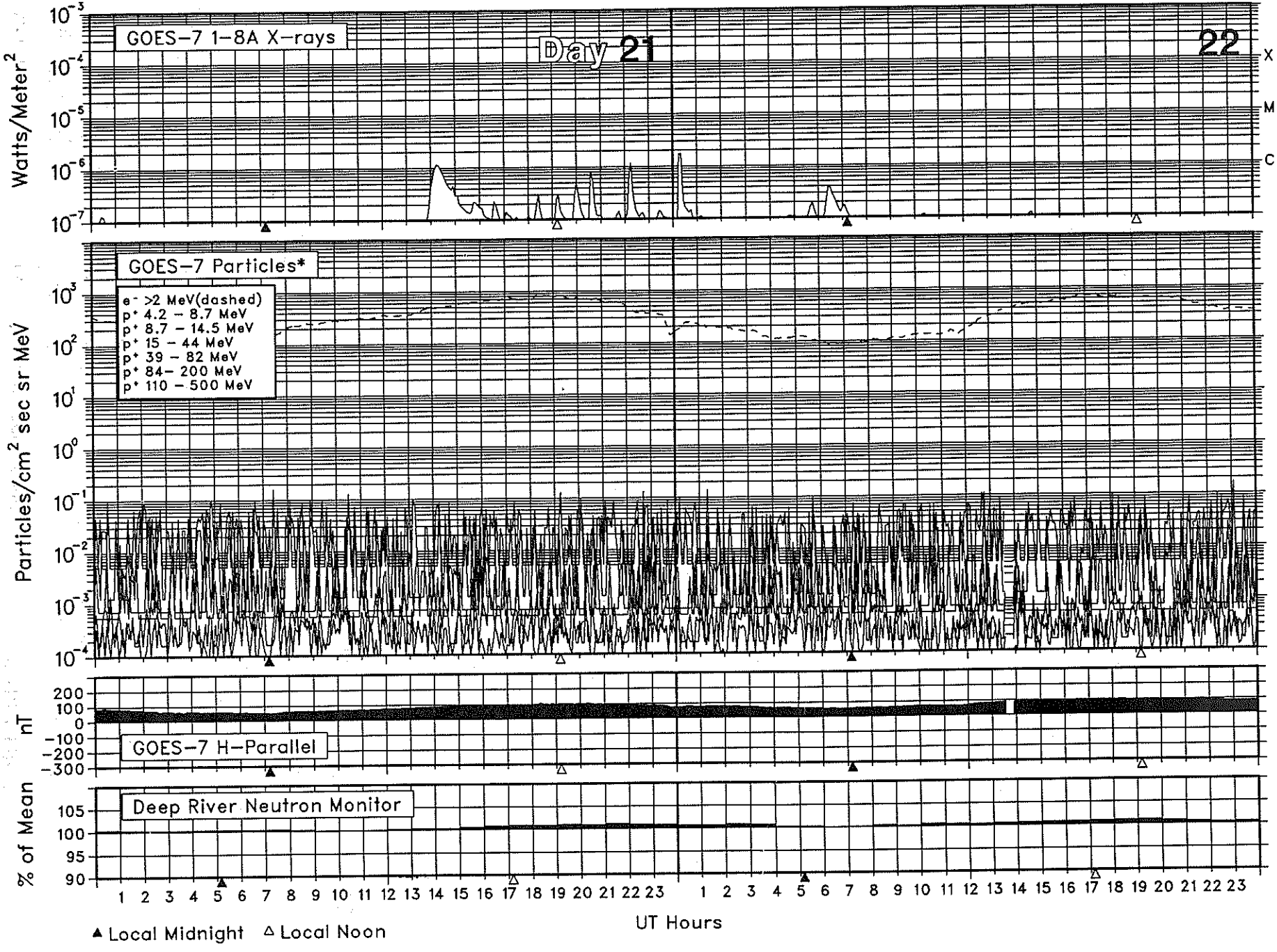

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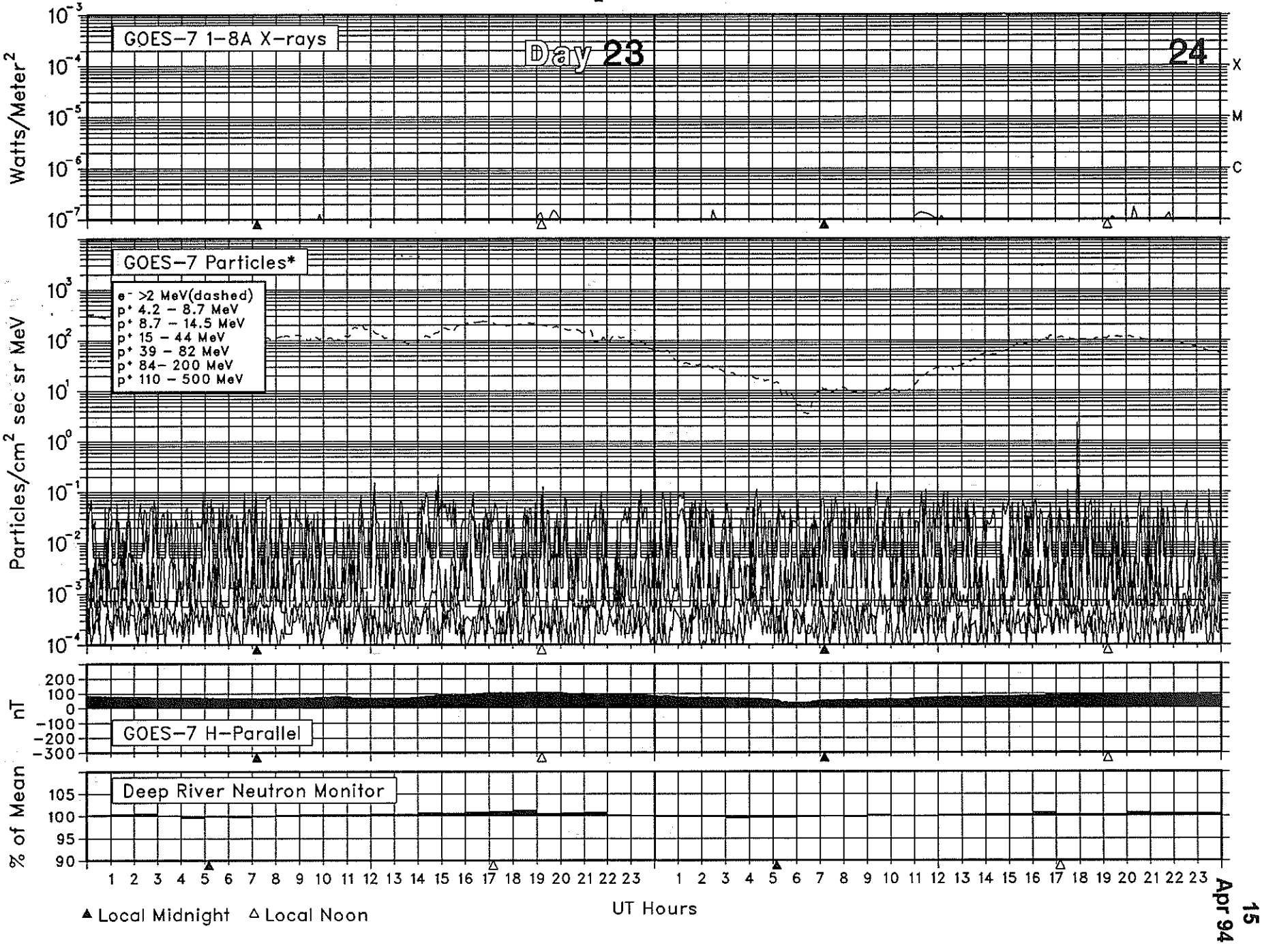

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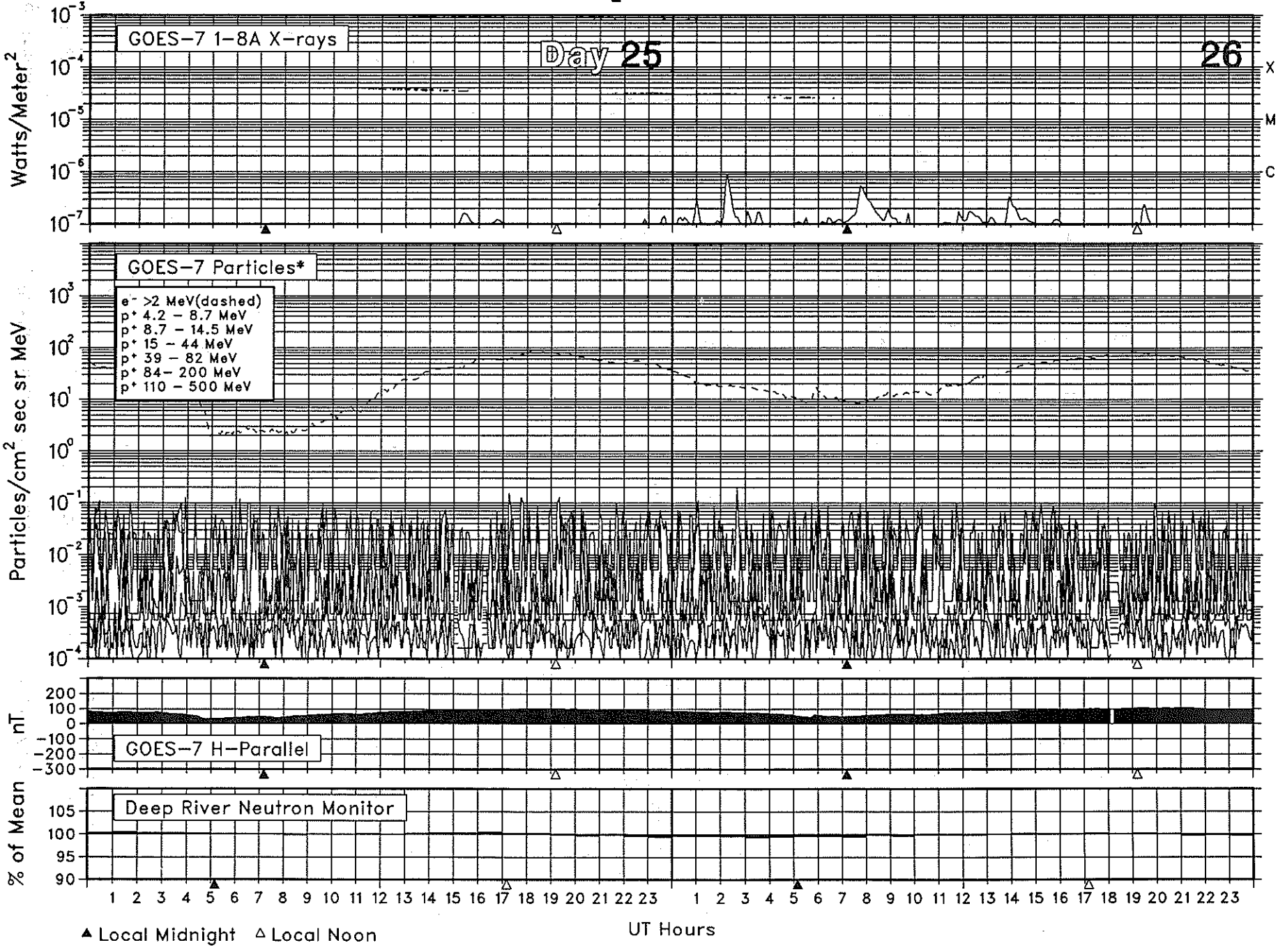

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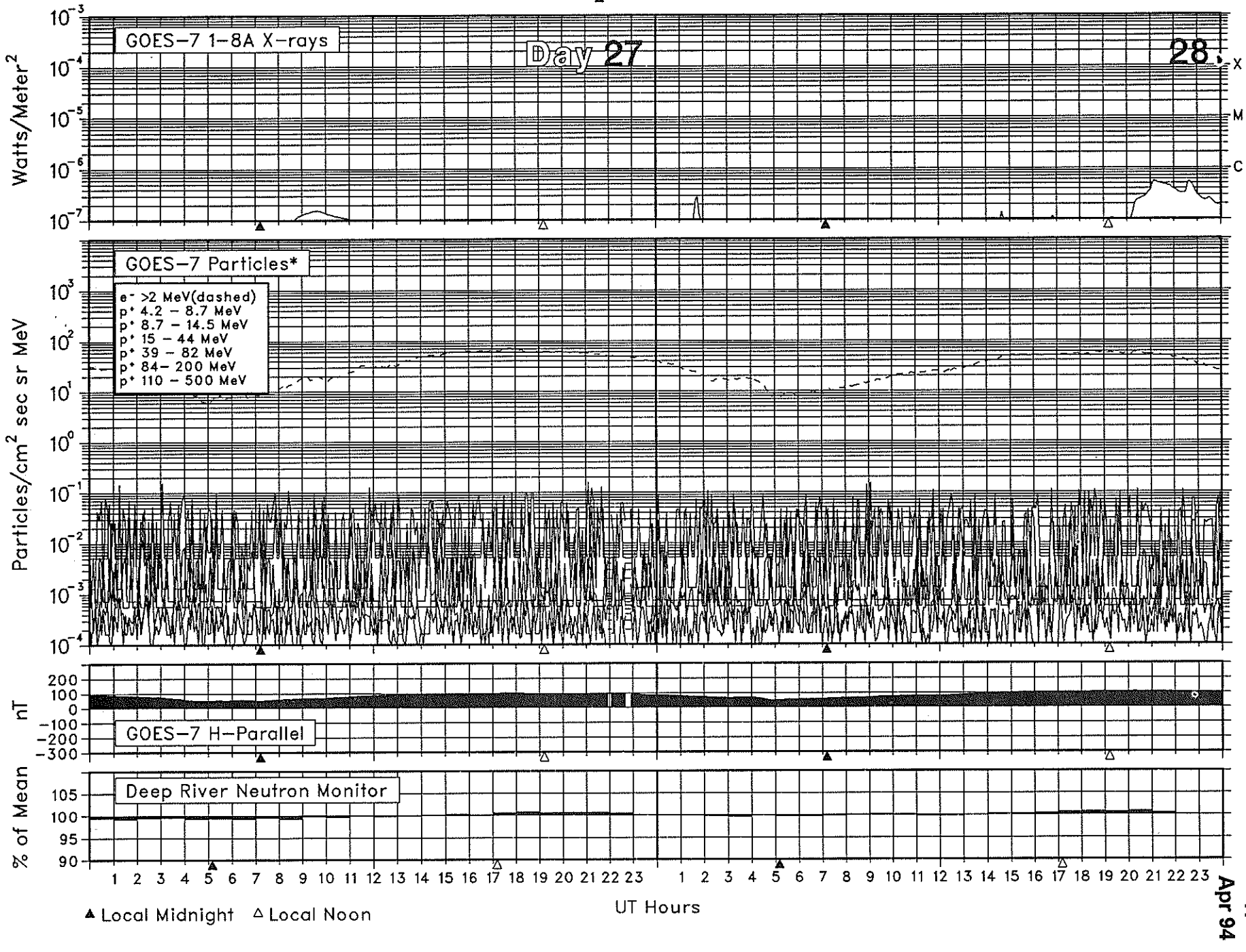

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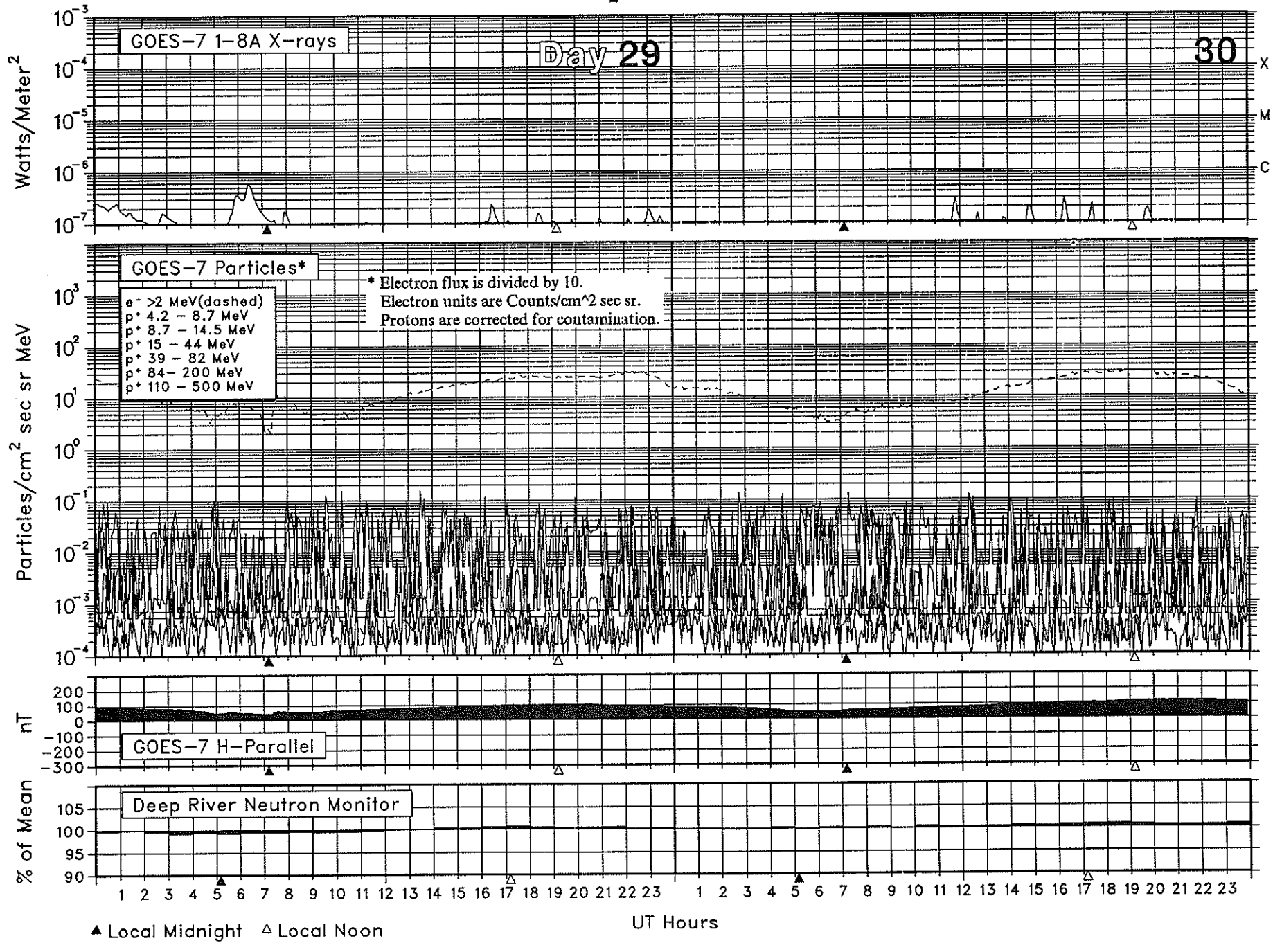


ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Geoalert Messages — APRIL 1994

Julian Day	Date of Issue	Date of Obser-vation	Wolf No.	10-cm Solar Flux	A-index	Location °Lat °Long	Flares Total	Flares M	Flares X	Date of Forecast	Region Forecast [1]	Geoadvice[1]
091	01	31	061	085	7	S15 W38	0	0	0	01	Q	SOL: Eruptive
						S17 W73	0	0	0	01	Q	MAG: Quiet
						N11 W28	0	0	0	01	Q	PROTON: Quiet
						S17 W11	0	0	0	01	Q	
092	02	01	028	082	5	S16 W85	0	0	0	02	Q	SOL: Quiet
						S16 W24	0	0	0	02	Q	MAG: Quiet
						N11 W28	0	0	0	02	Q	PROTON: Quiet
093	03	02	000	079	25	S16 W85	0	0	0	03	Q	SOL: Quiet
						S16 W24	0	0	0	03	Q	MAG: Magstorm
						N11 W28	0	0	0	03	Q	PROTON: Quiet
094	04	03	000	077	48	S16 W85	0	0	0	04	Q	SOL: Quiet
						S16 W24	0	0	0	04	Q	MAG: Minor
						N11 W28	0	0	0	04	Q	PROTON: Quiet
095	05	04	000	077	30	S16 W85	0	0	0	05	Q	SOL: Quiet
						S16 W24	0	0	0	05	Q	MAG: Minor
						N11 W28	0	0	0	05	Q	PROTON: Quiet
096	06	05	011	077	25	S09 W05	0	0	0	06	Q	SOL: Quiet
						S16 W24	0	0	0	06	Q	MAG: Minor
						N11 W28	0	0	0	06	Q	PROTON: Quiet
097	07	06	000	073	30	S09 W05	0	0	0	07	Q	SOL: Quiet
						S16 W24	0	0	0	07	Q	MAG: Minor
						N11 W28	0	0	0	07	Q	PROTON: Quiet
098	08	07	000	073	27	S09 W05	0	0	0	08	Q	SOL: Quiet
						S16 W24	0	0	0	08	Q	MAG: Minor
						N11 W28	0	0	0	08	Q	PROTON: Quiet
099	09	08	011	073	31	N08 E72	0	0	0	09	Q	SOL: Quiet
						S16 W24	0	0	0	09	Q	MAG: Minor
						N11 W28	0	0	0	09	Q	PROTON: Quiet
100	10	09	011	073	34	N08 E60	0	0	0	10	Q	SOL: Quiet
						S16 W24	0	0	0	10	Q	MAG: Minor
						N11 W28	0	0	0	10	Q	PROTON: Quiet
101	11	10	014	075	25	N10 E46	5	0	0	11	Q	SOL: Quiet
						S16 W24	0	0	0	11	Q	MAG: Minor
						N11 W28	0	0	0	11	Q	PROTON: Quiet
102	12	11	015	074	32	N09 E34	0	0	0	12	Q	SOL: Quiet
						S16 W24	0	0	0	12	Q	MAG: Minor
						N11 W28	0	0	0	12	Q	PROTON: Quiet
103	13	12	017	074	17	N08 E20	1	0	0	13	Q	SOL: Quiet
						S16 W24	0	0	0	13	Q	MAG: Active
						N11 W28	0	0	0	13	Q	PROTON: Quiet
104	14	13	021	074	23	N09 E07	1	0	0	14	Q	SOL: Quiet
						S16 W24	0	0	0	14	Q	MAG: Active
						N11 W28	0	0	0	14	Q	PROTON: Quiet
105	15	14	028	079	19	N07 W08	1	0	0	15	Q	SOL: Quiet
						N05 E77	0	0	0	15	Q	MAG: Active
						N11 W28	0	0	0	15	Q	PROTON: Quiet

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Geoalert Messages — APRIL 1994

Julian Day	Date of Issue	Date of Obser-vation	Wolf No.	10-cm Solar Flux	A-index	Location °Lat °Long	Flares Total	Flares M	Flares X	Date of Forecast	Region Forecast [1]	Geoadvice[1]
106	16	15	029	080	15	N07 W20	0	0	0	16	Q	SOL: Quiet
						N07 E68	1	0	0	16	Q	MAG: Active
						N11 W28	0	0	0	16	Q	PROTON: Quiet
107	17	16	026	082	23	N08 W33	0	0	0	17	Q	SOL: Quiet
						N07 E55	1	0	0	17	Q	MAG: Minor
						N11 W28	0	0	0	17	Q	PROTON: Quiet
108	18	17	038	082	63	N05 W51	0	0	0	18	Q	SOL: Quiet
						N08 E42	1	0	0	18	Q	MAG: Minor
						S11 E48	0	0	0	18	Q	PROTON: Quiet
109	19	18	038	084	17	N03 W64	0	0	0	19	Q	SOL: Quiet
						N08 E28	0	0	0	19	Q	MAG: Active
						S11 E34	0	0	0	19	Q	PROTON: Quiet
110	20	19	052	085	16	N07 E12	2	0	0	20	Q	SOL: Quiet
						S12 E14	2	0	0	20	Q	MAG: Quiet
						N09 E31	0	0	0	20	Q	PROTON: Quiet
						N08 E78	0	0	0	20	Q	
111	21	20	041	086	11	N07 W00	2	0	0	21	Q	SOL: Quiet
						S12 E08	0	0	0	21	Q	MAG: Quiet
						N08 E65	0	0	0	21	Q	PROTON: Quiet
112	22	21	053	087	9	N07 W14	0	0	0	22	Q	SOL: Eruptive
						S12 E03	0	0	0	22	Q	MAG: Quiet
						N09 E55	1	0	0	22	Q	PROTON: Quiet
						N05 E13	7	0	0	22	Q	
113	23	22	064	085	7	N07 W28	1	0	0	23	Q	SOL: Eruptive
						S12 W09	0	0	0	23	Q	MAG: Quiet
						N08 E40	0	0	0	23	Q	PROTON: Quiet
						N06 W00	2	0	0	23	Q	
114	24	23	054	085	6	N06 W42	0	0	0	24	Q	SOL: Eruptive
						N08 E27	0	0	0	24	Q	MAG: Quiet
						N05 W13	1	0	0	24	Q	PROTON: Quiet
115	25	24	072	083	9	N08 W50	0	0	0	25	Q	SOL: Quiet
						S13 W40	0	0	0	25	Q	MAG: Quiet
						N07 E14	0	0	0	25	Q	PROTON: Quiet
						N04 W25	0	0	0	25	Q	
						N07 W75	2	0	0	25	Q	
116	26	25	060	083	6	N07 W69	0	0	0	26	Q	SOL: Quiet
						S12 W57	0	0	0	26	Q	MAG: Quiet
						N07 E01	0	0	0	26	Q	PROTON: Quiet
						N04 W41	0	0	0	26	Q	
						N06 W89	1	0	0	26	Q	
117	27	26	050	081	7	N07 W82	0	0	0	27	Q	SOL: Quiet
						N03 W53	0	0	0	27	Q	MAG: Quiet
						S01 W39	0	0	0	27	Q	PROTON: Quiet
						N09 W71	0	0	0	27	Q	
118	28	27	058	078	4	N13 W29	0	0	0	28	Q	SOL: Quiet
						N04 W69	1	0	0	28	Q	MAG: Quiet
						N00 W54	0	0	0	28	Q	PROTON: Quiet
						N10 W83	0	0	0	28	Q	
						N02 W36	0	0	0	28	Q	

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Geoalert Messages **APRIL 1994**

Julian Day	Date of Issue	Date of Obser-vation	Wolf No.	10-cm Solar Flux	A-index	Location °Lat °Long	Flares Total	Flares M	Flares X	Date of Forecast	Region Forecast [1]	Geoadvice[1]
119	29	28	035	077	2	N14 W42	0	0	0	29	Q	SOL: Quiet
						N04 W82	1	0	0	29	Q	MAG: Quiet
						N00 W66	1	0	0	29	Q	PROTON: Quiet
120	30	29	016	078	5	S01 W79	1	0	0	30	Q	SOL: Quiet
						N04 W82	1	0	0	30	Q	MAG: Minor
						N00 W66	1	0	0	30	Q	PROTON: Quiet

[1] **Region Forecast and Flare Geoadvice**

Q =Quiet (<50% probability of C-class flares)
E =Eruptive (C-class flares expected, probability >=50%)
A =Active (M-class flares expected, probability >=50%)
M =Major (X-class flares expected, probabiljty >=50%)
P =Proton (Proton flares exptected, probability >=50%)
Warning condition (activity levels expected to increase, but no numeric forecast given)
Nil (end of Alert period)
No forecast

Magnetic Geoadvice

Quiet
Active conditions expected (A>=20 or K=4)
Minor storm expected (A>=30 or K=5)
Major magstorm expected (A>=50 or K>=6)
Severe magstorm expected (A>=100 or K>=7)
Magstorm in progress (A>=30 or K>=4)
Warning condition (activity levels expected to increase, but no numeric forecast given)
Nil (end of Alert period)
No forecast

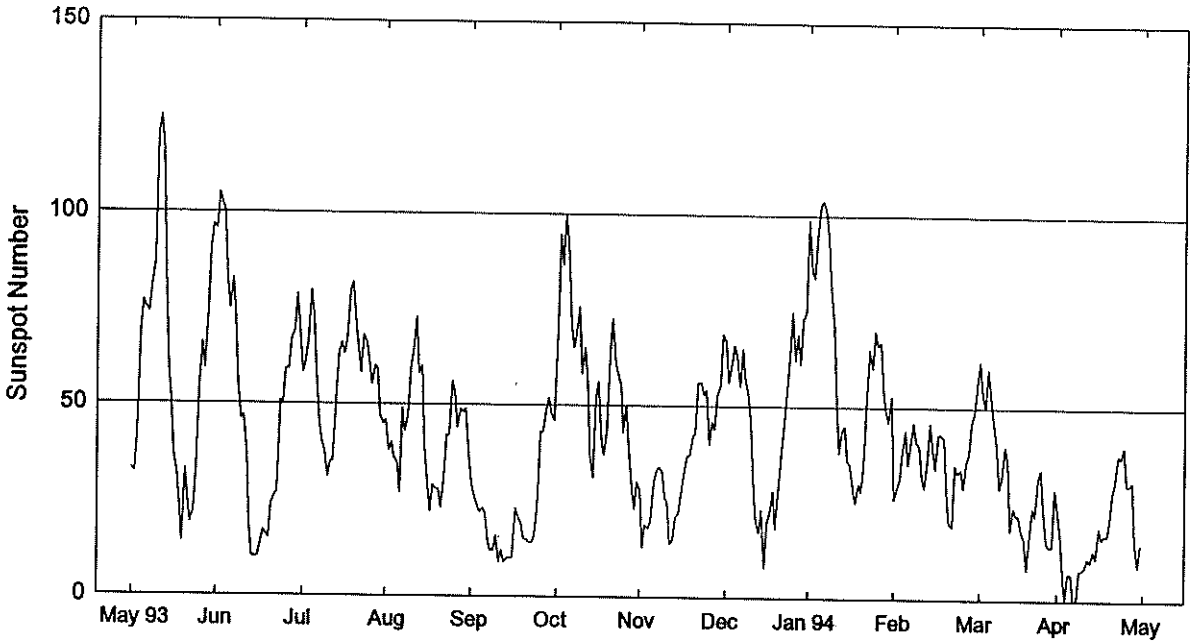
Proton Geoadvice

Quiet
Proton event expected (10 pfu at >10 MeV)
Major proton event expected (100 pfu at >100 MeV)
Proton event in progress (>10 MeV)
Warning condition (activity levels expected to increase, but no numeric forecast given)
Nil (end of Alert period)
No forecast

STRATWARM ALERTS

04/01/94 03:30:00
GEOALERT WWA091 STRATWARM ALERT/THU/STRATWARM EXISTS.
THE INTENSE WARMING COVERS THE POLAR REGION AT 10HPA, MEAN ZONAL WIND AT 60N CONTINUOUSLY WEAKENING AND WILL REACH EASTERLY DIRECTION AT THE BEGINNING OF APRIL AT 10HPA. TEMPERATURE GRADIE REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STRATO FROM 30HPA UPWARDS,IN THE LOWER STRATOSPHERE DURING THE NEXT DAY THE FINAL TRANSITION TO SUMMER CONDITIONS IS EXPECTED TO TAKE PL DURING APRIL.

International Relative Sunspot Numbers
May 1993 - Apr 1994

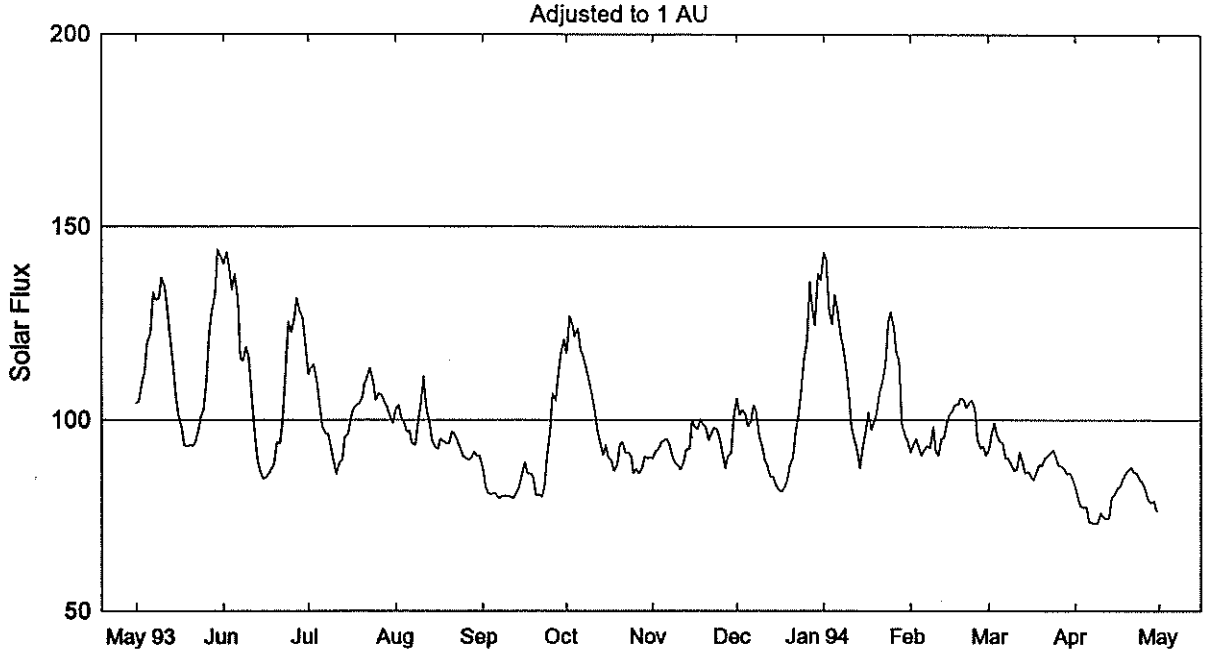


Day	May 93	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 94*	Feb*	Mar*	Apr*
1	33	105	58	38	26	64	13	67	86	29	49	17
2	32	102	61	40	24	95	19	56	84	31	56	7
3	42	101	66	36	22	87	18	60	95	38	62	0
4	69	82	80	35	23	100	20	66	103	44	54	7
5	77	75	73	27	22	90	30	63	104	35	50	7
6	75	83	58	49	14	71	33	55	101	40	60	0
7	74	72	45	43	12	65	34	65	94	46	52	0
8	81	55	40	47	12	70	33	57	81	41	46	8
9	87	46	38	59	16	76	26	53	71	40	41	8
10	120	47	31	65	9	58	25	46	51	32	29	9
11	125	37	35	73	12	65	14	31	38	29	32	11
12	116	18	35	58	9	56	15	21	44	36	40	10
13	85	10	51	60	10	37	21	17	45	46	36	13
14	59	10	63	39	10	31	22	23	36	39	18	11
15	51	10	66	29	10	52	27	8	35	34	24	19
16	37	13	63	22	23	56	32	20	29	43	22	16
17	32	17	67	29	21	41	37	22	25	43	22	17
18	24	16	80	28	19	37	37	28	30	42	18	17
19	14	15	82	28	15	44	42	18	28	28	16	21
20	33	24	71	23	15	63	43	27	35	20	8	28
21	25	26	66	31	14	73	56	37	53	19	17	31
22	19	27	58	42	14	61	56	44	65	35	24	38
23	22	51	68	42	16	58	53	54	60	33	22	37
24	33	50	66	56	23	55	54	63	70	34	32	40
25	53	59	61	53	43	43	40	75	66	29	34	30
26	66	59	55	44	43	50	46	62	67	36	24	30
27	59	67	60	49	49	39	44	69	54	38	15	31
28	74	69	59	48	52	29	53	61	49	46	14	15
29	91	79	47	49	48	23	55	73	46		14	9
30	97	70	45	37	46	30	69	75	53		29	15
31	96		46	30		28		99	26		24	
Mean	61.3	49.8	57.9	42.2	22.4	56.4	35.6	48.9	58.8	35.9	31.7	16.7

* = Provisional. The definitive yearly mean sunspot number equals 54.6 for 1993.

Penticton 2800 MHz (10.7cm) Solar Flux
May 1993 - Apr 1994

Adjusted to 1 AU



Day	May 93	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 94	Feb	Mar	Apr
1	104.2	140.4	111.8	102.8	87.1	117.1	90.0	105.6	143.4	91.7	92.4	82.4
2	104.7	143.4	113.6	103.7	82.6	126.9	91.8	101.3	141.4	93.5	96.3	79.3
3	108.9	140.4	114.2	100.8	80.9	124.8	92.4	102.6	128.7	95.1	99.2	77.4
4	112.4	133.7	110.1	98.9	80.5	121.5	94.1	101.6	124.6	92.7	96.3	77.2
5	120.0	137.7	103.9	97.0	81.0	123.7	94.8	98.3	132.4	90.6	94.2	77.2
6	122.2	131.3	98.4	97.1	80.2	118.0	94.9	99.9	127.7	92.2	94.1	73.3
7	133.0	115.7	96.5	93.8	79.6	116.6	93.5	103.8	122.1	93.3	90.0	73.0
8	131.2	115.2	96.4	93.4	80.2	113.1	90.2	101.9	118.9	92.6	89.9	72.9
9	131.5	118.9	93.2	99.1	80.1	110.1	88.7	95.4	113.1	98.3	88.7	72.9
10	136.8	116.0	89.0	104.5	80.1	107.1	88.2	93.2	106.5	91.8	86.8	75.7
11	134.7	104.9	85.8	111.2	79.8	102.3	87.0	89.7	97.8	90.7	87.0	74.6
12	129.0	96.2	88.7	103.2	79.5	97.3	88.9	88.1	94.6	95.1	91.7	74.2
13	122.4	89.4	89.5	99.2	81.1	94.5	92.2	85.1	91.9	95.4	89.1	74.3
14	114.6	86.4	95.7	94.6	82.6	90.8	92.3	85.1	87.3	98.9	86.2	79.9
15	106.7	84.6	96.3	92.8	85.6	93.5	99.9	82.8	92.6	101.3	86.5	80.6
16	101.1	85.0	100.3	92.4	89.0	90.3	98.2	81.9	97.0	102.3	85.3	82.3
17	98.4	86.1	102.6	95.1	85.9	89.4	97.7	81.1	102.0	103.9	84.3	82.5
18	93.5	87.4	103.7	94.3	86.0	86.7	100.2	82.4	97.5	103.9	85.9	84.9
19	93.1	88.8	104.1	93.9	85.0	88.1	98.7	84.2	99.5	105.6	88.3	86.2
20	93.4	94.1	105.6	93.8	80.3	93.5	98.0	88.1	101.6	105.2	87.9	87.0
21	93.3	94.0	108.9	97.0	80.6	94.2	94.8	89.9	107.3	103.1	90.0	87.6
22	94.1	99.8	111.2	96.2	79.8	91.3	96.8	96.6	109.5	104.4	90.5	86.3
23	97.3	113.1	113.3	94.8	82.0+	91.4	97.9	101.6	114.6	105.1	91.2	86.1
24	100.9	125.4	109.8	92.5	90.0+	90.6	97.5	107.5	125.1	102.9	92.1	84.3
25	102.4	122.6	105.1	90.6	96.5	86.0	94.7	115.2	128.1	94.8	90.4	83.8
26	110.4	126.0	106.8	90.2	106.8	87.4	90.8	120.5	123.9	92.6	88.1	82.0
27	122.7	131.7	106.4	89.4	104.9	86.0	87.3	135.8	116.8	93.0	88.0	79.0
28	129.2	127.8	104.6	90.2	111.7	87.3	90.7	129.2	115.7	90.8	87.3	78.4
29	132.5	126.7	103.5	91.7	116.8	90.5	91.2	124.4	98.9		85.8	78.9
30	144.1	120.3	100.8	90.7	120.9	90.0	100.8	138.0	96.1		86.1	76.0
31	142.1		99.1	90.6		90.1		136.2	94.7		84.9	
Mean	114.9	112.8	102.2	96.0	87.9	99.7	93.8	101.5	111.3	97.2	89.5	79.7

+ = suspect values due to software problems.

DAILY SOLAR INDICES

April 1994

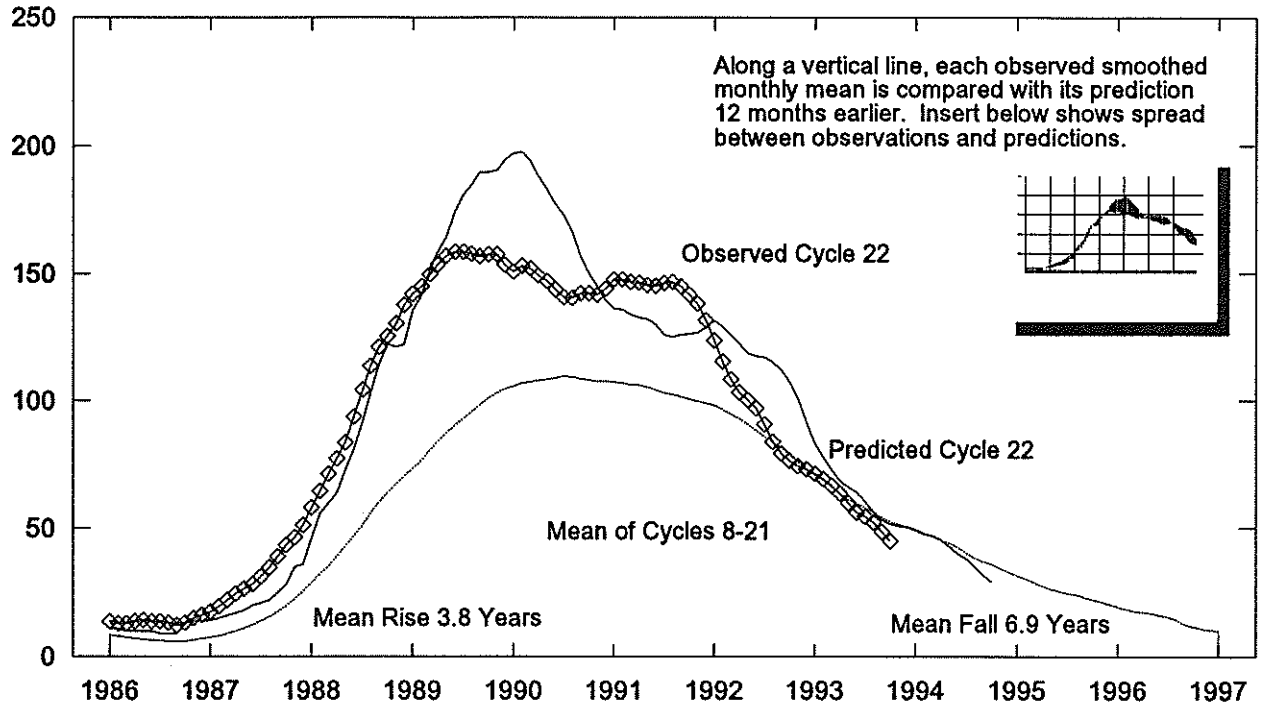
Day	Day of Year	Bartels Cycle Day	Sunspot Numbers Int	Amer	Obs Flux Penticton (2800)	Solar Flux Adjusted to 1 Astronomical Unit — LEAR (15400)	LEAR (8800)	LEAR (4995)	Pentic (2800)	LEAR (2695)	LEAR (1415)	LEAR (610)	LEAR (410)	LEAR (245)
1	91	12	17	16	82.5	523	212	131	82.4	81	55	51	30	13
2	92	13	7	5	79.3	499	211	130	79.3	80	53	50	29	14
3	93	14	0	0	77.4	529	209	128	77.4	75	--	48	28	13
4	94	15	7	2	77.1	543	209	127	77.2	74	52	47	29	13
5	95	16	7	6	77.1	538	204	127	77.2	74	52	46	27	13
6	96	17	0	3	73.2	531	211	126	73.3	74	50	47	28	12
7	97	18	0	0	72.8	521	202	122	73.0	71	49	46	27	13
8	98	19	8	8	72.6	545	204	121	72.9	71	51	43	27	13
9	99	20	8	8	72.6	549	--	121	72.9	70	51	45	27	13
10	100	21	9	10	75.3	537	209	123	75.7	71	52	45	26	12
11	101	22	11	11	74.3	530	208	125	74.6	73	54	44	26	12
12	102	23	10	11	73.9	546	210	124	74.2	72	53	46	27	12
13	103	24	13	13	73.9	504	201	123	74.3	74	56	44	26	13
14	104	25	11	15	79.4	530	204	124	79.9	72	53	43	26	12
15	105	26	19	20	80.1	531	208	128	80.6	76	57	48	28	13
16	106	27	16	15	81.7	542	207	130	82.3	79	59	49	28	13
17	107	1	17	18	81.8	545	210	129	82.5	79	61	51	29	14
18	108	2	17	17	84.2	523	213	131	84.9	82	62	53	30	14
19	109	3	21	23	85.4	535	214	132	86.2	81	63	55	30	16
20	110	4	28	29	86.2	547	217	134	87.0	83	63	--	--	15
21	111	5	31	34	86.7	548	202	131	87.6	82	63	53	31	15
22	112	6	38	40	85.4	531	210	135	86.3	83	65	55	36	16
23	113	7	37	38	85.2	548	212	134	86.1	84	64	56	31	15
24	114	8	40	40	83.4	--	--	--	84.3	--	--	--	--	--
25	115	9	30	34	82.8	542	205	128	83.8	79	61	54	32	14
26	116	10	30	33	81.0	530	211	132	82.0	80	61	53	31	15
27	117	11	31	35	78.0	538	210	129	79.0	78	58	51	28	14
28	118	12	15	21	77.3	546	211	127	78.4	76	56	48	28	13
29	119	13	9	10	77.8	515	210	128	78.9	77	56	46	27	12
30	120	14	15	17	74.9	523	209	127	76.0	75	55	47	27	13
MEAN			16.7	17.7	79.1	533	208	127	79.7	76	56	48	28	13

The International numbers shown above are preliminary values; the American numbers are final.

The observed and the adjusted Penticton fluxes tabulated here are the "Series C" daily values reported by the Dominion Radio Astrophysical Observatory, Penticton, British Columbia, Canada. Numbers in parentheses in the column headings denote frequencies in MHz.

Equipment problems produced any gaps in the Air Weather Service's Learmonth (LEAR) observations.

Cycle 22 Smoothed Sunspot Numbers: Observed and Predicted



Smoothed Sunspot Numbers (Observed and Predicted) for Parts of Solar Cycles 21 and 22

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1987	18	20	22	24	26	28	31	35	39	44	47	51	32
1988	58	65	71	78	84	94	104	114	121	125	130	138	99
1989	142	145	150	154	157	158	158	158	157	157	158	154	154
1990	151	153	152	149	147	144	141	140	142	142	142	144	146
1991	148	148	147	146	146	145	146	147	145	142	138	132	144
1992	124	115	108	103	100	97	91	84	80	76	74	73	94
1993	71	69	67	64	60	56	55	52	49	45	44	42	56
( )											(3)	(6)	(5)
1994	40	39	38	37	36	35	33	32	30	29	28	27	34
( )	(8)	(9)	(10)	(11)	(11)	(13)	(15)	(17)	(18)	(19)	(20)	(21)	(14)
1995	26	26	25	24	22	21	21	20	20	19	18	17	22
( )	(21)	(21)	(21)	(21)	(21)	(20)	(20)	(21)	(20)	(19)	(18)	(18)	(20)

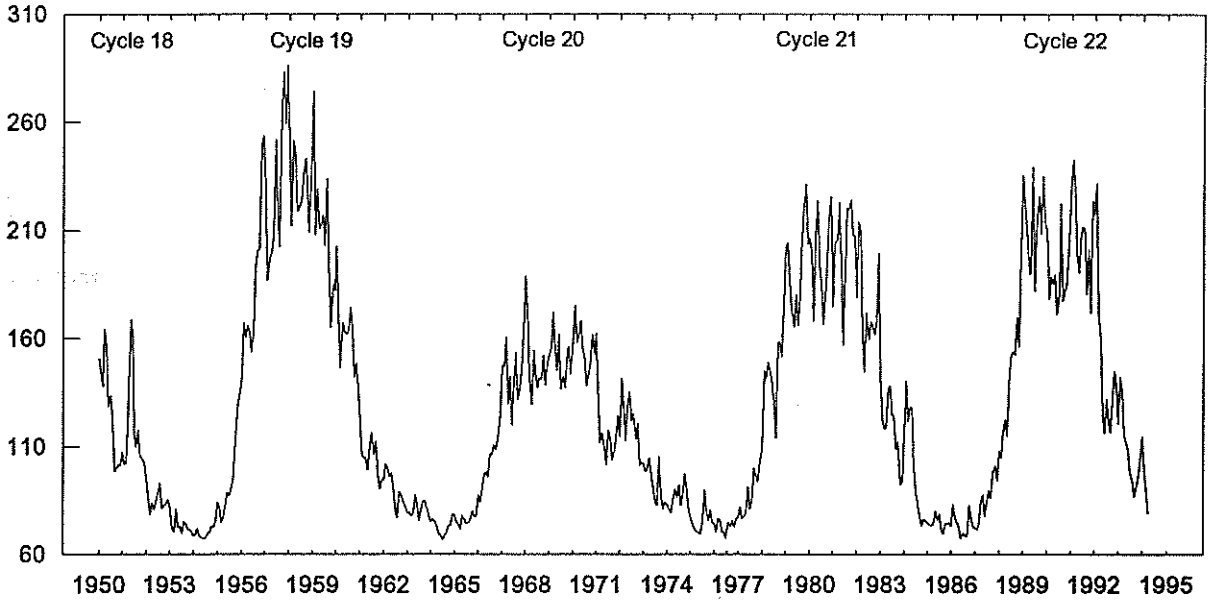
Solar Cycle 22 — Min, Max, and Predictions

September 1986 marks the minimum of Solar Cycle 21 and the onset of Cycle 22, which in turn, reached a maximum in July 1989.

Observed and Predicted Numbers. For the end of Cycle 21, and the rise and decline of Cycle 22, the table above lists observed smoothed sunspot numbers up to the one that includes the most recent monthly mean. We based these smoothed values on final monthly means through Dec 1993 and on provisional numbers thereafter. Table entries with numbers in parentheses below them denote predictions by the McNish-Lincoln method. (See page 9 in the Jul 1987 supplement to *Solar-Geophysical Data.*) Adding the number in parentheses to the predicted value generates the upper limit of the 90% confidence interval. Subtracting the number from the predicted value generates the lower limit. Consider, for example, the Oct 1994 prediction. There exists a 90% chance that in Oct 1994, the actual smoothed number will fall somewhere between 10 and 48.

Points to Ponder. The McNish-Lincoln prediction method generates useful estimates of smoothed, monthly mean sunspot numbers for no more than 12 months ahead. Beyond 12 months, the predictions regress toward the mean of all 14 cycles of observations used in the computation. Moreover, the method remains very sensitive to the date defining the onset of the current cycle, that is, to the date of the most recent sunspot minimum. The new cycle predictions tabulated above are based on the minimum value of 12.3 that occurred in Sep 1986.

Monthly Mean 2800 MHz Solar Flux (Observed)
Jan 1950 - Apr 1994



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1950	150.7	143.3	137.8	164.3	157.1	128.7	134.1	120.9	98.6	99.9	101.9	101.1	128.2
1951	107.9	101.9	102.5	127.1	168.6	161.7	116.3	109.8	117.8	106.0	104.4	102.4	118.9
1952	95.4	86.2	78.5	84.0	80.9	84.8	88.8	93.3	81.5	82.8	83.4	85.7	85.4
1953	83.2	72.8	70.4	81.0	72.5	73.0	69.8	75.5	74.3	71.9	71.4	70.8	73.9
1954	68.7	69.2	71.9	68.7	68.0	67.3	67.7	69.9	70.1	73.2	72.6	75.5	70.2
1955	84.3	82.0	74.8	77.3	82.8	88.8	87.3	90.7	91.1	111.8	130.0	134.6	95.0
1956	141.2	167.2	160.6	165.9	163.4	154.0	162.8	193.8	200.9	201.6	250.4	253.7	184.6
1957	231.2	186.7	197.8	200.0	208.5	252.1	218.0	202.3	267.1	283.1	259.2	286.5	232.7
1958	251.5	212.2	251.5	245.9	218.6	220.5	224.1	237.0	243.5	228.0	209.2	238.2	231.7
1959	274.5	207.9	229.2	210.6	212.7	217.5	203.0	234.2	194.3	165.1	184.8	182.2	209.7
1960	202.6	170.9	146.8	167.6	162.7	161.9	163.9	174.4	164.5	142.3	148.9	138.1	162.0
1961	122.0	106.4	104.8	105.0	99.3	109.9	116.5	106.2	112.7	96.7	90.3	94.8	105.4
1962	94.9	102.2	100.3	96.2	97.9	91.0	80.7	77.3	89.5	87.8	84.9	82.0	90.4
1963	79.5	79.7	77.8	79.5	87.8	83.5	75.9	80.9	85.1	85.1	81.7	78.4	81.2
1964	75.4	76.8	75.9	72.6	69.5	69.0	67.0	69.3	70.2	73.4	73.7	78.8	72.6
1965	78.6	75.2	74.1	72.0	78.2	77.0	74.3	74.8	76.6	80.2	77.7	77.8	76.4
1966	87.9	84.2	90.3	97.2	98.5	96.3	106.7	106.6	110.9	108.6	113.3	124.6	102.1
1967	147.7	147.0	160.6	129.9	143.0	120.2	140.3	153.7	132.1	136.1	145.3	163.0	143.2
1968	189.1	173.2	142.6	129.5	154.9	142.3	137.2	142.2	141.0	152.5	138.5	148.4	149.3
1969	152.7	155.2	172.3	155.5	145.4	162.2	136.6	143.0	137.3	154.0	156.7	143.6	151.2
1970	158.3	175.4	158.4	162.0	168.4	154.9	152.0	138.2	143.2	148.3	162.0	152.8	156.2
1971	162.6	137.8	111.9	116.7	109.9	101.7	117.4	114.1	104.0	107.2	114.0	124.5	118.5
1972	114.8	141.8	128.5	112.9	129.6	135.4	122.0	125.7	113.6	121.1	101.6	102.9	120.8
1973	102.2	98.7	100.4	105.0	97.0	91.2	84.5	82.9	105.6	87.7	81.5	84.2	93.4
1974	83.1	80.9	79.2	86.1	90.6	86.3	92.5	83.0	87.8	97.6	90.3	81.1	86.5
1975	77.5	74.2	72.4	70.7	70.1	69.7	77.2	90.4	79.6	75.7	80.8	74.6	76.1
1976	74.7	70.5	76.7	76.3	70.6	70.6	67.5	74.8	73.1	75.9	72.9	76.7	73.4
1977	77.4	82.3	76.6	77.6	79.6	91.5	81.1	84.3	99.9	96.9	93.7	102.1	86.9
1978	109.6	145.4	141.8	149.4	146.5	142.2	131.1	114.0	157.9	158.2	151.5	175.5	143.6
1979	203.0	204.1	185.8	173.8	165.2	180.3	165.9	172.7	200.2	217.9	231.7	203.5	192.0
1980	206.2	200.0	168.1	207.9	224.0	193.2	184.8	166.2	183.9	204.2	218.1	225.8	198.5
1981	174.6	204.5	205.3	223.2	194.6	156.9	191.9	220.6	219.5	224.3	207.8	207.8	202.6
1982	179.0	214.2	210.5	161.8	144.7	171.9	159.6	167.9	165.3	161.9	167.4	199.4	175.3
1983	142.3	122.6	118.6	118.9	137.1	138.6	125.0	124.4	109.0	112.4	92.5	93.4	119.6
1984	116.1	140.6	122.0	128.7	128.3	100.3	89.3	83.7	78.1	73.5	76.3	75.9	101.1
1985	74.5	73.7	73.3	75.1	80.2	76.1	78.7	71.5	69.5	74.7	74.2	74.8	74.7
1986	73.2	83.6	77.0	75.1	72.6	67.6	70.2	68.4	68.7	83.0	77.1	72.6	74.1
1987	72.5	71.5	74.0	84.9	87.8	77.9	84.2	90.0	86.1	98.1	101.2	94.4	85.3
1988	108.0	105.0	114.9	122.7	115.2	139.4	152.7	154.2	152.5	169.8	156.2	199.8	141.0
1989	235.4	222.4	205.1	189.6	190.1	239.6	181.9	217.1	225.9	208.7	235.1	213.0	213.7
1990	210.1	178.3	188.8	185.3	189.7	170.9	180.7	222.6	177.4	182.0	184.3	204.9	189.6
1991	229.4	243.0	230.0	198.8	190.3	206.8	212.0	210.3	180.6	201.3	172.0	223.9	208.1
1992	217.6	232.1	171.3	158.5	125.4	116.7	132.2	122.1	116.8	130.8	145.2	139.1	150.7
1993	121.0	142.6	136.4	115.9	112.3	109.3	99.0	93.7	87.0	100.3	95.9	104.8	109.7
1994	115.0	99.6	90.4	79.1									96.0

Hα SOLAR FLARES

APRIL 1994

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
GOES	01	1105	1110	1115						10		B 1.3						
GOES	02	0451	0454	0456						5		B 1.0						
GOES		1210	1217	1225						15		B 2.3						
GOES		1947	1955	2009						22		B 1.5						
GOES	03	0102	0114	0139						37		B 2.7						
GOES	04	1000	1046	1057						57		B 2.8						
GOES	08	1232	1238	1241						9		B 1.2						
GOES	09	2201	2205	2210						9		B 1.6						
RAMY	10	1120	1124	1131	N10	E55	7700	04	14.6	11	SF		3	E		27		
GOES		1228	1231	1237						9		B 1.8						
RAMY		1514	1526	1534	N11	E52	7700	04	14.5	20	SF	B 5.8	3	E		29		F
HOLL		1522	1527	1533	N10	E53	7700	04	14.6	11	SF		3	E		39		
RAMY		1541	1543	1548	N10	E52	7700	04	14.6	7	SF		4	E		15		
GOES		1634	1638	1647						13		B 4.2						
HOLL		1939	1944	1954	N11	E51	7700	04	14.6	15	SF	B 2.2	3	E		10		
HOLL		2108	2109	2122	N10	E50	7700	04	14.6	14	SF	B 1.0	3	E		14		
GOES	11	0524	0527	0530						6		B 1.0						
PALE	12	2136E	2136U	2145D	N08	E20	7700	04	14.4	9D	SF		3	E		30		
GOES	13	0338	0341	0345						7		B 2.4						
PALE		1740E	1741U	1800D	N08	E09	7700	04	14.4	20D	SF	B 1.1	3	E		31		E
SVTO	14	0837	0842	0849	N07	E03	7700	04	14.6	12	SF		3	E		11		
GOES		1415	1418	1424						9		B 1.4						
RAMY	15	1800	1800	1806	N06	E73	7701	04	21.2	6	SF		3	E		33		
HOLL		1800	1801	1805	N05	E72	7701	04	21.1	5	SF	B 3.7	3	E		23		F
GOES	16	0419	0425	0429						10		B 1.0						
GOES		0730	0735	0739						9		B 1.3						
RAMY		1336	1338	1344	N07	E62	7701	04	21.2	8	SF	B 2.3	3	E		16		F
RAMY	17	1133	1133	1144	N09	E49	7701	04	21.1	11	SF	B 1.0	3	E		12		
GOES		2126	2130	2133						7		B 1.2						
GOES	18	1347	1421	1514						87		C 1.2						
SVTO	19	1145	1153	1156	S14	E27	7702	04	21.5	11	SF		3	E		10		F
RAMY		1244	1245	1309	N08	E21	7701	04	21.1	25	SF	B 1.6	4	E		14		F
SVTO		1244	1246	1302	N08	E20	7701	04	21.0	18	SF		3	E		22		FH
RAMY		1644	1647	1705	N08	E85		04	26.1	21	2N	C 2.1	3	E		257		YE
HOLL		1646	1647	1704	N07	E78		04	25.5	18	SF		3	E		99		H
RAMY		1650E	1659U	1705	S13	E25	7702	04	21.6	15D	SF		3	E		15		F
RAMY		1718	1724	1731	N08	E19	7701	04	21.1	13	SF		3	E		13		
GOES		1942	1948	2001						19		B 2.2						
GOES		2303	2311	2323						20		B 1.1						
GOES	20	0205	0208	0212						7		B 1.3						
GOES		1142	1151	1159						17		B 1.4						
GOES		1339	1344	1349						10		B 1.2						
RAMY		1430	1433	1438	N07	E07	7701	04	21.1	8	SF		3	E		10		
GOES		1522	1529	1536						14		B 1.1						
GOES		1539	1544	1552						13		B 1.4						
GOES		1721	1726	1738						17		B 1.9						
RAMY		1838E	1846	1852	N09	E05	7701	04	21.1	14D	SF	B 6.1	3	E		14		F
GOES		2029	2032	2035						6		B 1.0						
GOES		2122	2126	2131						9		B 1.4						
GOES	21	0022	0028	0035						13		B 1.3						
RAMY		1136	1139	1143	N05	E21		04	23.0	7	SF		3	E		20		

Hα SOLAR FLARES

APRIL 1994

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
RAMY	21	1359	1408	1454	N07	E61	7704	04	26.1	55	SF		3	E		38		F
HOLL		1400	1408	1447	N06	E62	7704	04	26.2	47	SF	C 1.1	3	E		49		FH
RAMY		1407	1417	1425	N05	E18		04	22.9	18	SF		3	E		26		
HOLL		1433	1434	1439	N04	E18		04	22.9	6	SF		3	E		14		
HOLL		1454	1456	1502	N03	E18		04	23.0	8	SF		3	E		17		
GOES		1504	1507	1509						5		B 3.6						
HOLL		1546	1601	1622	N04	E19	7705	04	23.1	36	SF		3	E		39		H
HOLL		1636	1637	1642	N05	E17	7705	04	23.0	6	SF	B 2.6	3	E		11		FH
GOES		1730	1733	1735						5		B 1.3						
GOES		1756	1759	1801						5		B 1.4						
GOES		1819	1826	1829						10		B 3.6						
HOLL		1914	1914	1917	N03	E15	7705	04	22.9	3	SF	B 4.1	3	E		14		
PALE		1914E	1919U	1922D	N05	E17	7705	04	23.1	8D	SF	B 5.7	1	E		35		F
PALE		2010E	2022U	2026D	N06	E19	7705	04	23.3	16D	SF		1	E		26		F
GOES		2032	2037	2039						7		C 1.1						
GOES		2139	2147	2149						10		B 1.6						
GOES		2206	2214	2217						11		C 2.3						
GOES		2355	2424	2431						36		B 2.8						
LEAR	22	0018	0019	0029	N06	E14	7705	04	23.1	11	SN	C 5.2	3	E		81		FE
LEAR		0545	0547	0551	S13	W05	7705	04	21.9	6	SF		3	E		14		
LEAR		0629	0630	0633	N04	E09	7705	04	22.9	4	SF	B 4.1	3	E		21		
SVTO		0702	0705	0721	N09	W17	7701	04	21.0	19	SF		2	E		28		F
GOES		1017	1025	1029						12		B 1.2						
GOES		1050	1053	1058						8		B 1.0						
GOES		1826	1831	1834						8		B 1.0						
SVTO	23	0641	0642	0648	N04	W01	7705	04	23.2	7	SF		3	E		11		F
GOES		0947	0951	0956						9		B 1.4						
GOES		1902	1910	1919						17		B 1.4						
GOES		1930	1946	1957						27		B 1.5						
GOES	24	0227	0231	0238						11		B 1.7						
SVTO		1212	1213	1219	N07	W67		04	19.5	7	SF	B 1.3	3	E		15		F
GOES		1920	1929	1935						15		B 1.1						
GOES		2016	2021	2029						13		B 1.9						
HOLL		2146	2147	2150	N08	W72	7706	04	19.5	4	SF	B 1.6	3	E		11		
PALE		2147E	2147U	2156D	N06	W70	7706	04	19.7	9D	SF		1	E		26		F
GOES	25	1005	1010	1017						12		B 1.0						
SVTO		1031	1032	1041	N06	W80	7706	04	19.4	10	SF		3	E		16		
GOES		2249	2254	2256						7		B 1.3						
GOES		2335	2339	2342						7		B 2.3						
GOES	26	0055	0101	0106						11		B 3.6						
GOES		0205	0215	0223						18		B 9.7						
GOES		0301	0307	0312						11		B 1.9						
GOES		0329	0333	0338						9		B 2.0						
GOES		0526	0530	0533						7		B 1.5						
GOES		0738	0748	0758						20		B 5.7						
GOES		0852	0856	0859						7		B 2.1						
GOES		0943	0947	0950						7		B 1.9						
GOES		1148	1152	1157						9		B 1.9						
GOES		1214	1218	1229						15		B 1.8						
GOES		1349	1357	1408						19		B 3.5						
GOES		1922	1930	1938						16		B 2.5						
GOES	27	0821	0929	1054						153		B 1.5						
RAMY		1614	1616	1618	N06	W63	7705	04	23.0	4	SF		3	E		13		
SVTO		1614	1616	1619	N04	W64	7705	04	22.9	5	SF		2	E		26		
GOES	28	0106	0109	0111						5		B 1.0						
GOES		0138	0144	0149						11		B 3.9						
GOES		1437	1442	1446						9		B 1.6						
GOES		1644	1649	1656						12		B 1.2						
HOLL		2046	2049	2058	N01	W67	7707	04	23.9	12	SF		3	E		16		
HOLL		2152	2154	2158	N01	W67	7705	04	23.9	6	SF		3	E		26		
HOLL		2229	2231	2234	N04	W80	7705	04	22.9	5	SF		3	E		14		

Hα S O L A R F L A R E S

APRIL 1994

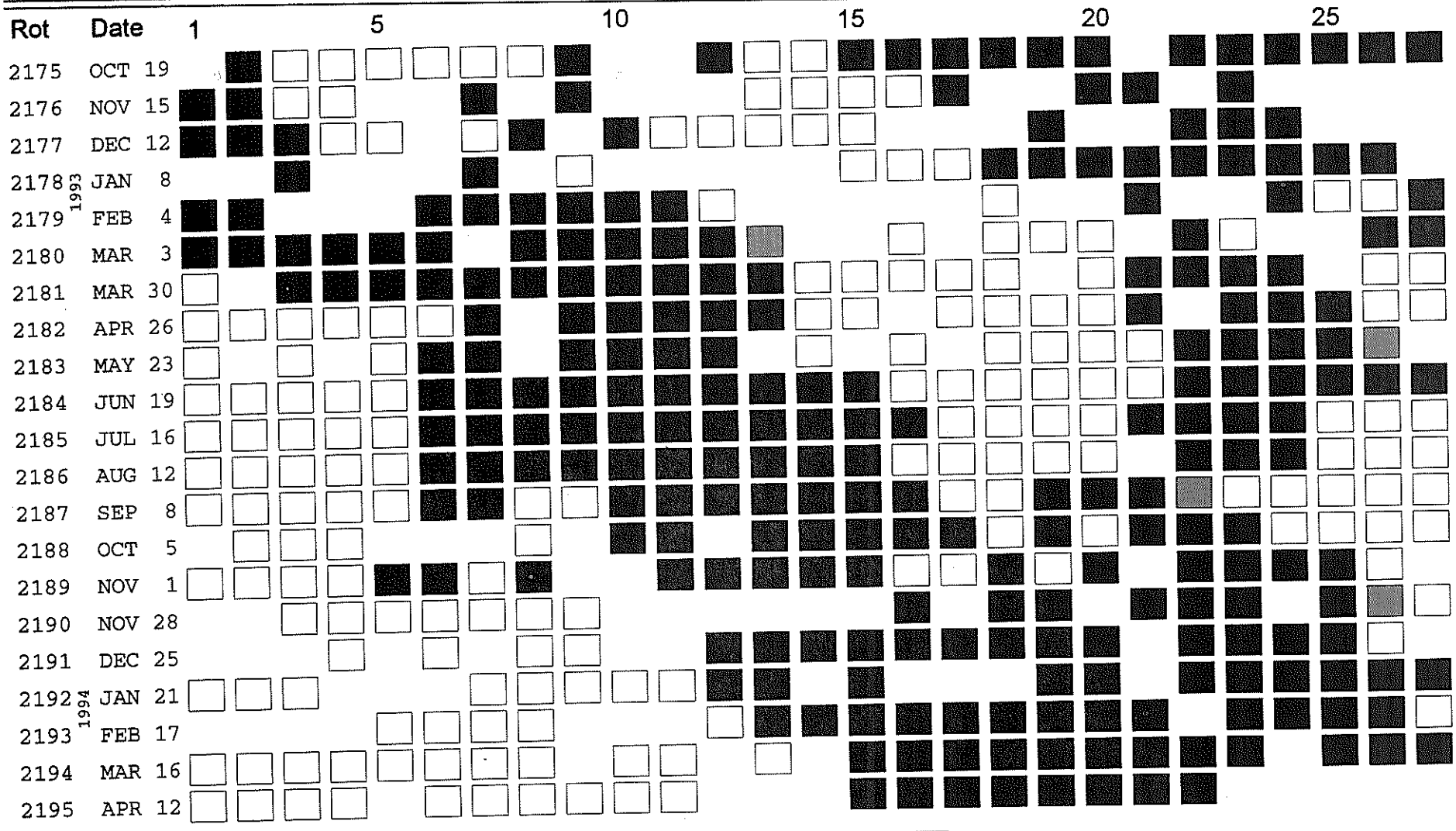
Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
HOLL	28	2229	2231	2234	N02	W69	7707	04	23.8	5	SF	B 5.9	3	E		14		
GOES	29	0548	0556	0613						25		B 3.6						
GOES		0752	0759	0804						12		B 1.9						
RAMY		1254	1254	1300	N00	W74	7707	04	24.0	6	SF		3	E		10		
GOES		1626	1633	1638						12		B 2.4						
GOES		1824	1828	1832						8		B 1.9						
GOES		1949	1952	1954						5		B 1.6						
GOES		2038	2042	2045						7		B 1.2						
GOES		2056	2100	2106						10		B 1.3						
GOES		2256	2302	2310						14		B 1.9						
GOES	30	0144	0147	0154						10		B 1.2						
GOES		1144	1149	1154						10		B 3.8						
GOES		1241	1245	1248						7		B 1.9						
GOES		1348	1352	1401						13		B 1.4						
GOES		1447	1453	1500						13		B 2.6						
GOES		1616	1623	1627						11		B 3.3						
GOES		1725	1730	1733						8		B 3.2						
GOES		1943	1948	1959						16		B 2.1						

"Remarks"

A. = Eruptive prominence whose base is less than 90 degrees from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by high-speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the H and K lines of Ca II.
P = Flare shows Helium D3 in emission.
Q = Flare shows Balmer continuum in emission.
R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
S = Brightness follows disappearance of filament in same position.
T = Region active all day.
U = Two bright branches, parallel or converging.
V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide H-alpha line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

Observation Type: C=Cinematographic, E=Electronic, P=Photographic, V=Visual

STANFORD MEAN SOLAR MAGNETIC FIELD

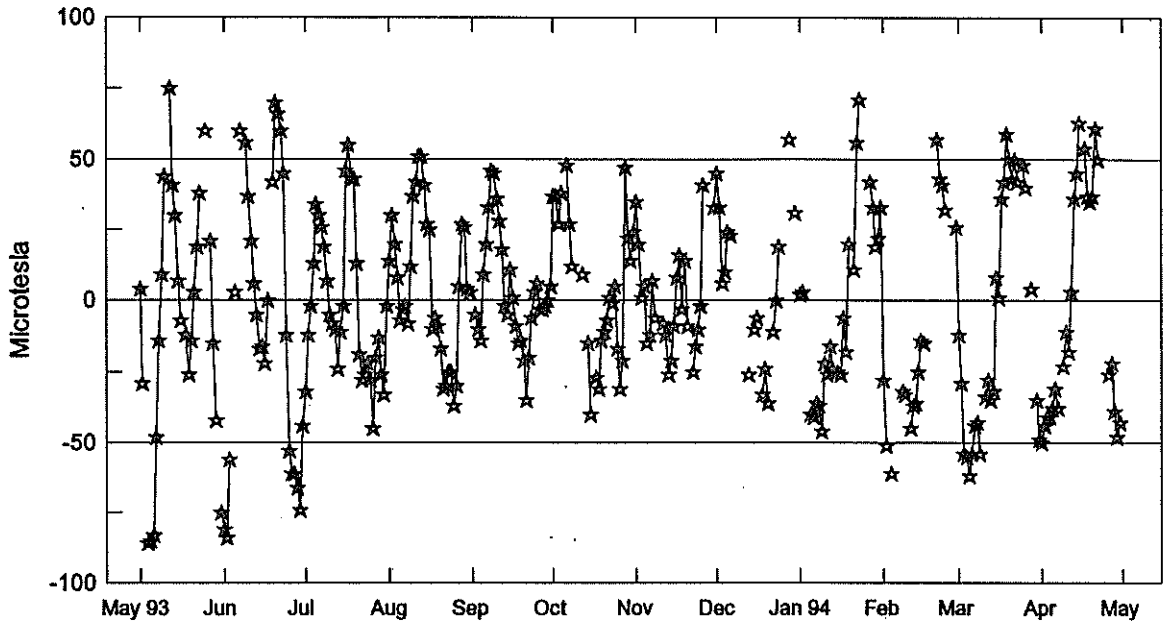


Mean Solar Magnetic Field Polarity: = field > 2 microT; = -2 microT ≤ field ≤ 2 microT

= 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 are five days earlier, to mark times of occurrence of phenomena on the Sun that affect the Earth during the given Bartels Rotation.

Stanford Mean Solar Magnetic Field (Microtesla)
"Sun-As-A-Star"



Day	May 93	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 94	Feb	Mar	Apr
1	4	-81	-32	14	---	37	35	45	2	-28	-12	-50
2	-29	-84	-12	30	-5	37	20	33	3	-51	-29	-44
3	---	-56	-2	20	-10	27	1	6	---	---	-54	-41
4	-86	---	13	8	-14	38	5	10	---	-61	-55	-41
5	-85	3	34	-7	9	---	-15	24	-40	---	-62	-38
6	-83	---	30	-3	20	48	-12	23	-41	---	-54	-31
7	-48	60	26	-2	33	27	7	---	-36	---	-44	-38
8	-14	---	19	-8	46	12	-6	---	-37	-32	-43	---
9	9	56	7	12	45	---	---	---	-46	-33	-54	-23
10	44	37	-5	37	36	---	---	---	-22	---	---	-11
11	---	21	-8	42	28	---	-8	---	-26	-45	-34	-18
12	75	6	-10	51	18	9	-12	---	-16	-37	-28	3
13	41	-5	-24	51	-2	---	-26	-26	-24	-36	-35	36
14	30	-17	-11	41	-5	-15	-21	---	---	-25	-32	45
15	7	-16	-2	27	11	-40	-9	-10	-25	-14	8	63
16	-7	-22	46	25	1	---	8	-6	-26	-15	1	---
17	---	0	55	-10	-9	-27	16	---	-6	---	36	54
18	-12	---	43	-6	-15	-31	-3	-33	-18	---	42	37
19	-26	42	43	-9	-14	-14	14	-24	20	---	59	35
20	-14	70	13	-17	-21	-11	-9	-36	---	---	50	37
21	3	66	-19	-31	-35	-7	---	---	11	57	43	61
22	19	60	-28	-30	-20	1	-25	-11	56	43	50	50
23	38	45	-26	-25	-6	-1	-16	0	71	41	42	---
24	---	-12	-22	-25	3	5	-10	19	---	32	---	---
25	60	-53	-28	-37	6	-17	-2	---	---	---	48	---
26	---	-61	-45	-30	-3	-31	41	---	---	---	40	-26
27	21	-61	-20	5	-3	-21	---	---	42	---	---	-22
28	-15	-66	-13	27	-2	47	---	57	33	26	4	-39
29	-42	-74	-26	26	0	22	---	---	19		---	-48
30	---	-44	-33	4	5	14	33	31	22		-35	-43
31	-75		-2	3		24		---	33		-49	

Note: --- Indicates no data available for the day.

CONTENTS

Prompt Reports Number 597 Part I

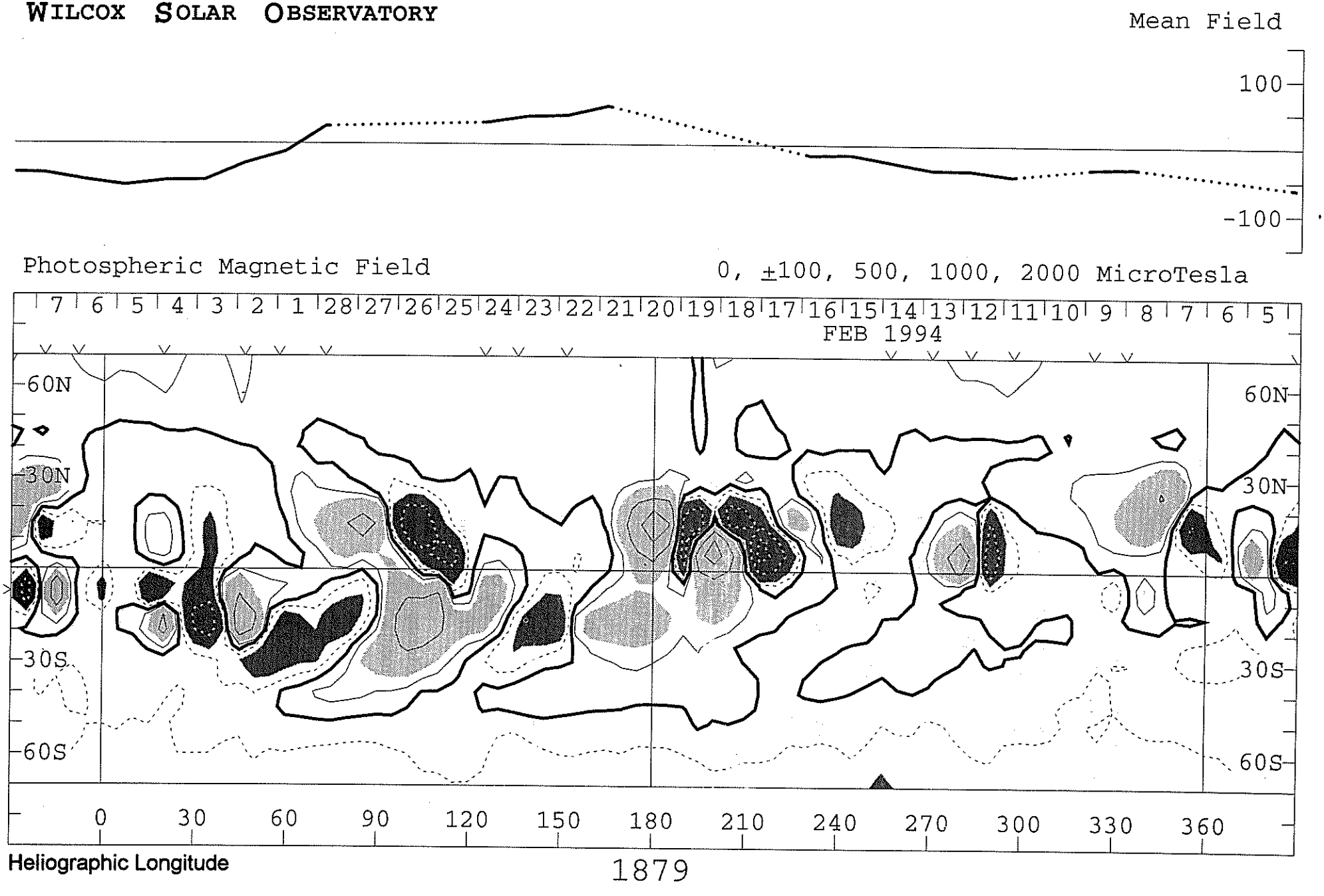
DATA FOR MARCH 1994

SOLAR MAGNETIC FIELD SYNOPTIC CHART

CARRINGTON ROTATION NUMBER 1879

(6 February to 6 March 1994)

WILCOX SOLAR OBSERVATORY



SOLAR MAGNETIC FIELD SYNOPTIC CHART

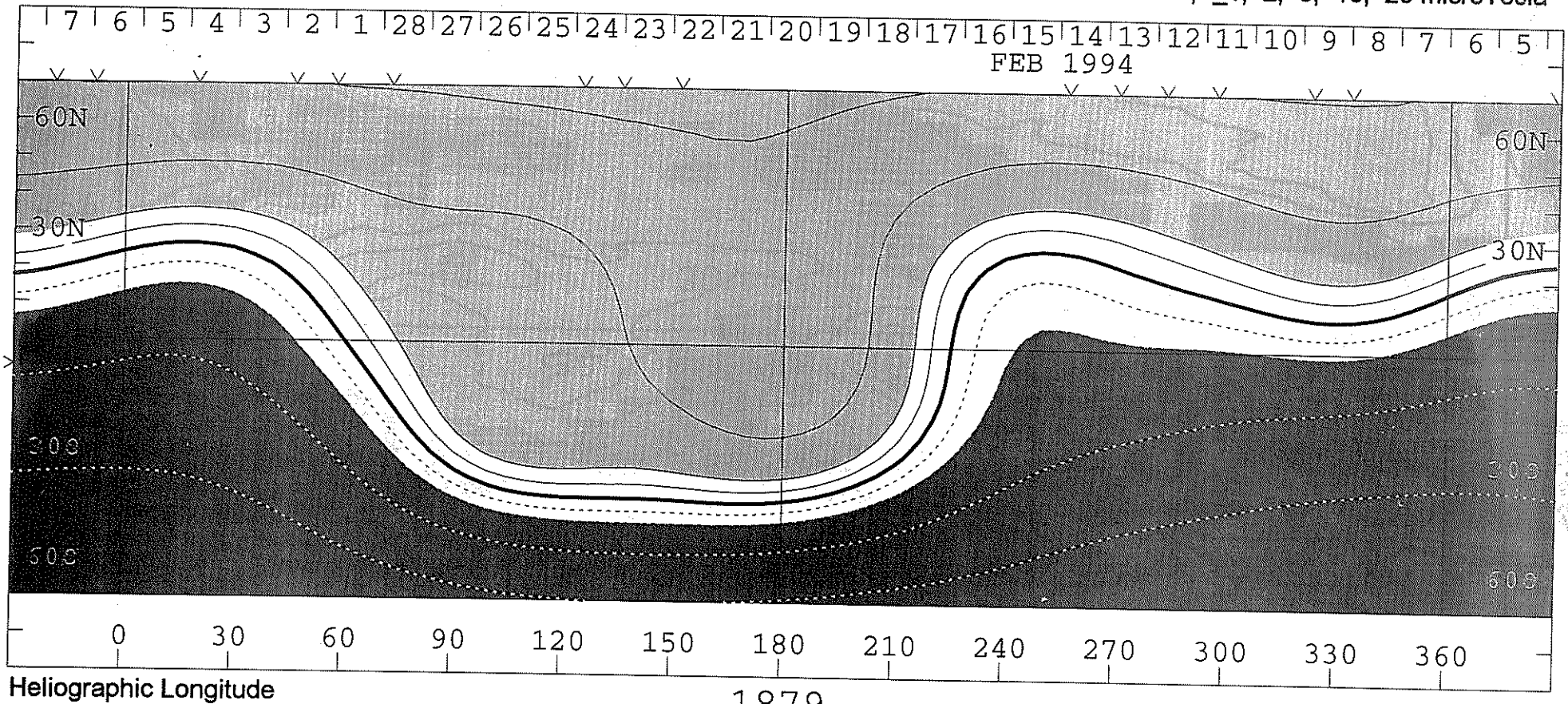
SOURCE SURFACE FIELD

CARRINGTON ROTATION NUMBER 1879

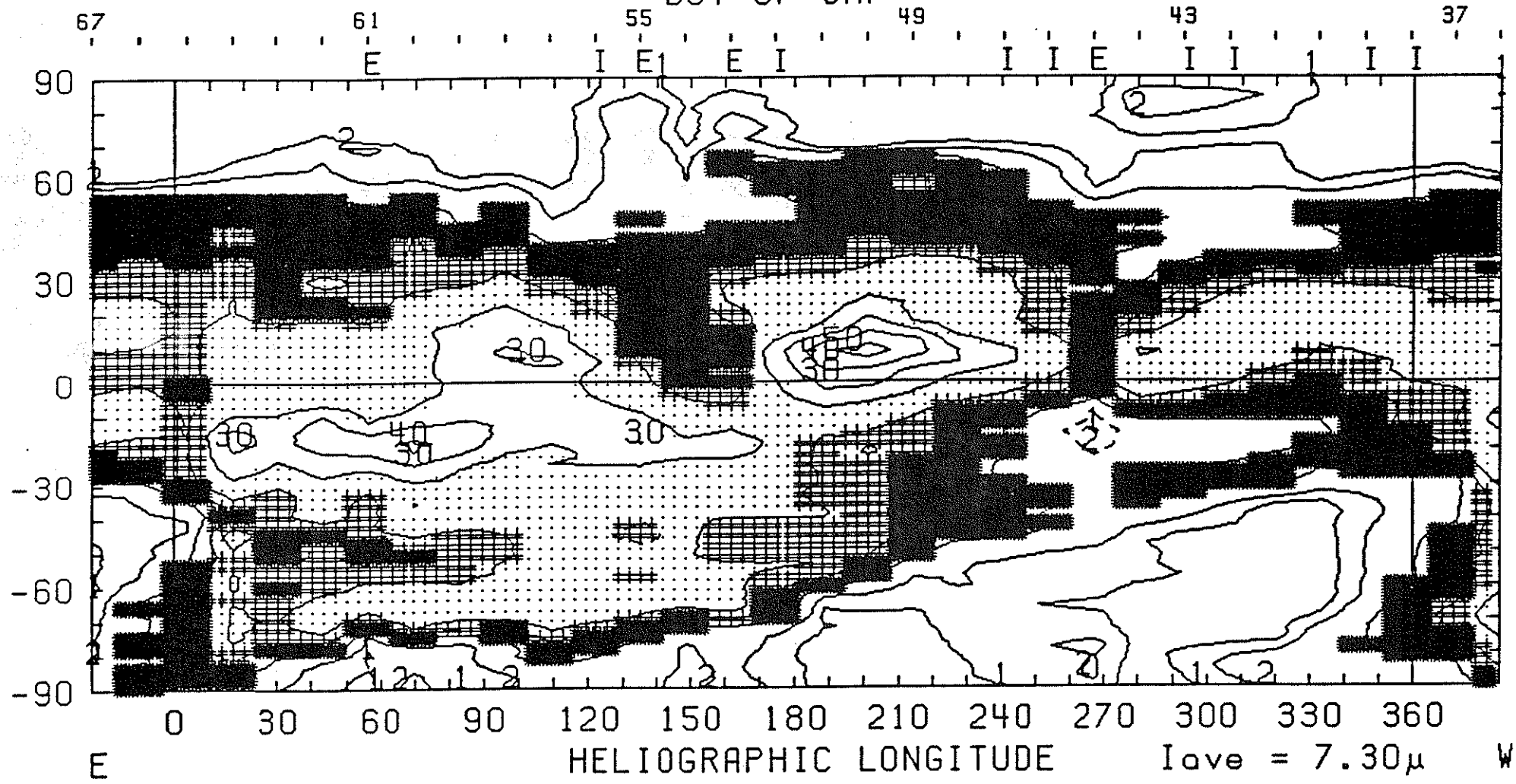
(6 February to 6 March 1994)

Wilcox Solar Observatory

0, ±1, 2, 5, 10, 20 microTesla



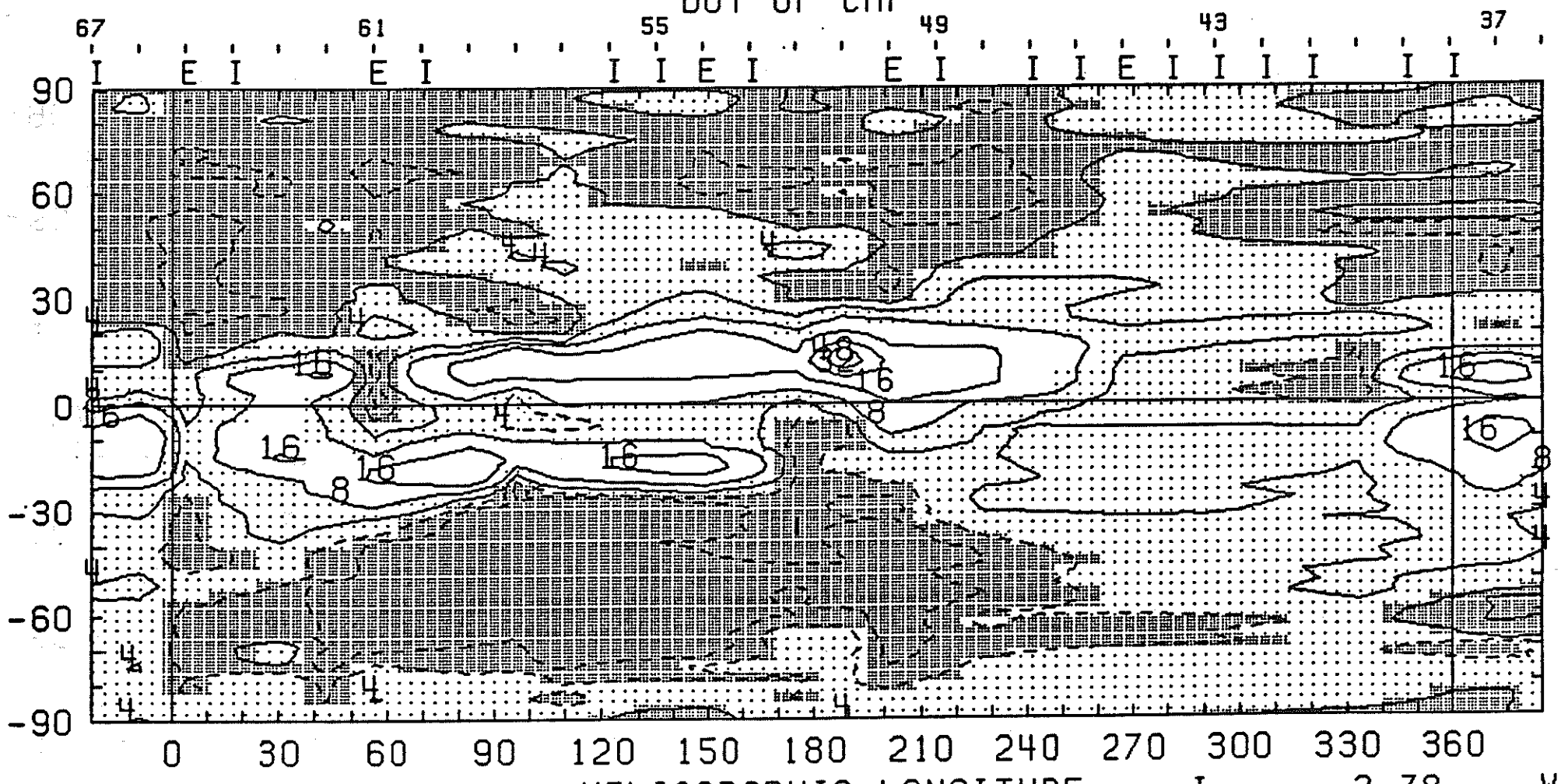
CARRINGTON ROTATION NUMBER 1879 ; SAC.PEAK FE XIV AT R = 1.15



Iave = 7.30μ

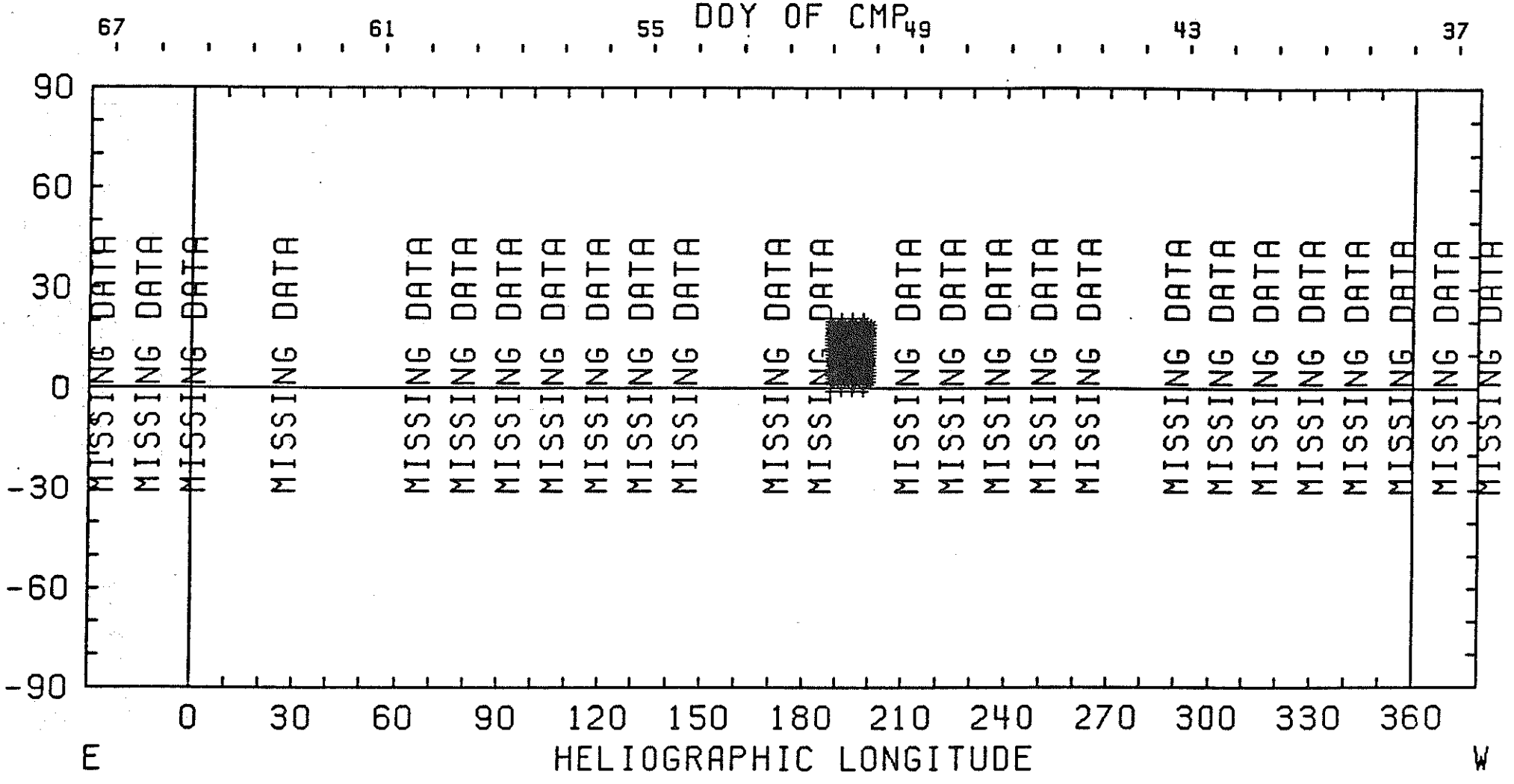
1994 W+E LIMB CONTOURS: 1,2,4,7,10,20,30,40,50 MILLIONTHS OF Io

(20-Apr-94) CORONAL HOLES ARE SHOWN AS WHITE SURROUNDED BY BLACK

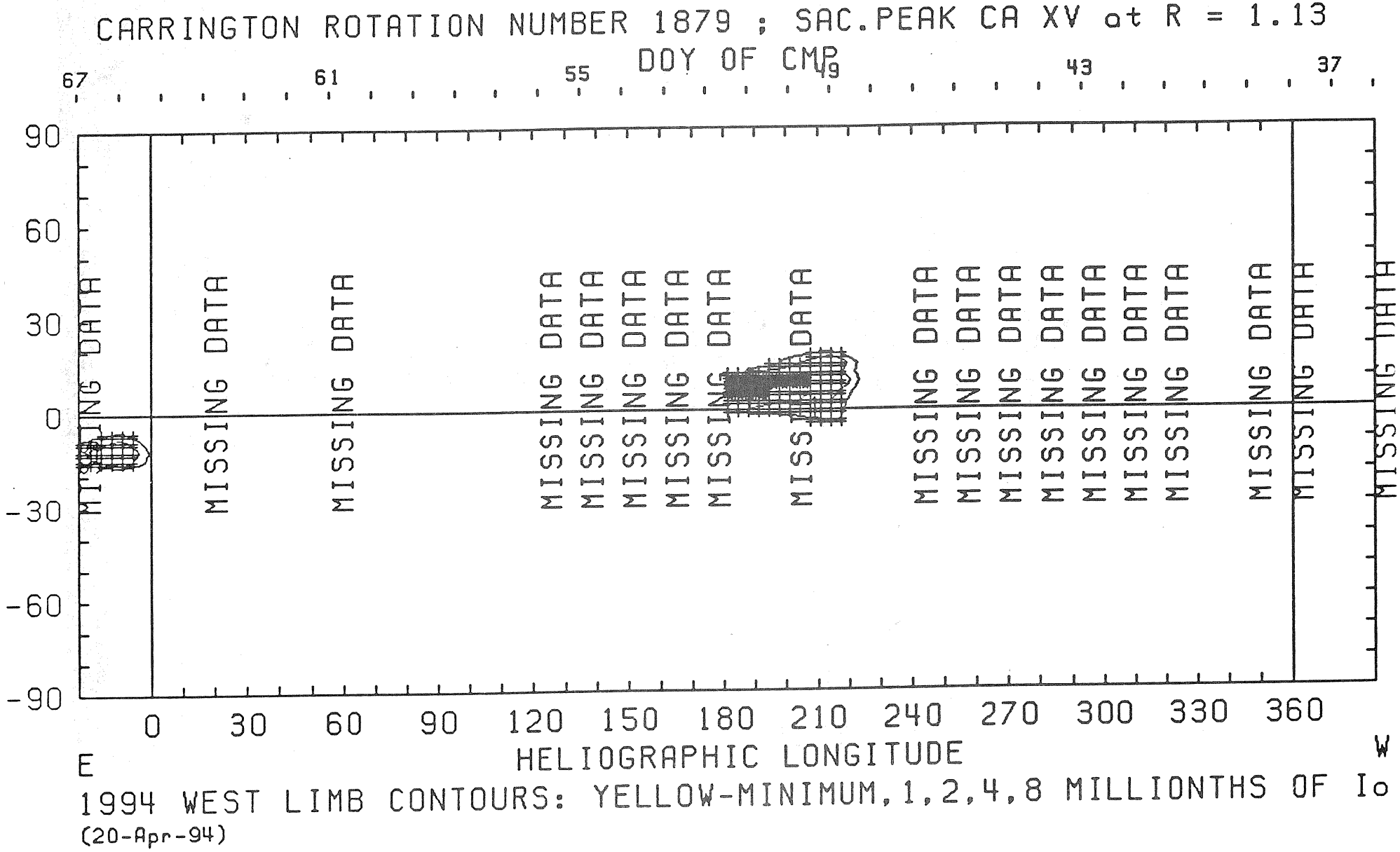

CARRINGTON ROTATION NUMBER 1879 ; SAC.PEAK FE X AT R = 1.15
DOY OF CMP
67
61
55
49
43
37
I E I E I I I E I E I I E I I I I I I
90
60
30
0
-30
-60
-90
0 30 60 90 120 150 180 210 240 270 300 330 360
E
HELIOGRAPHIC LONGITUDE
Iave = 3.78μ
W
1994 W+E LIMB CONTOURS: 1,2,4,8,16,32,48,64,80 MILLIONTHS OF Io
(20-Apr-94)

37
Mar 94

CARRINGTON ROTATION NUMBER 1879 ; SAC.PEAK CA XV at R = 1.13



1994 EAST LIMB CONTOURS: YELLOW-MINIMUM, 1, 2, 4, 8 MILLIONTHS OF Io
(20-Apr-94)


CARRINGTON ROTATION NUMBER 1879 ; SAC.PEAK CA XV at R = 1.13
DOY OF CMP
67
61
55
43
37
90
60
30
0
-30
-60
-90
MISSING DATA
0
30
60
90
120
150
180
210
240
270
300
330
360
E
HELIOGRAPHIC LONGITUDE
W
1994 WEST LIMB CONTOURS: YELLOW-MINIMUM,1,2,4,8 MILLIONTHS OF Io
(20-Apr-94)

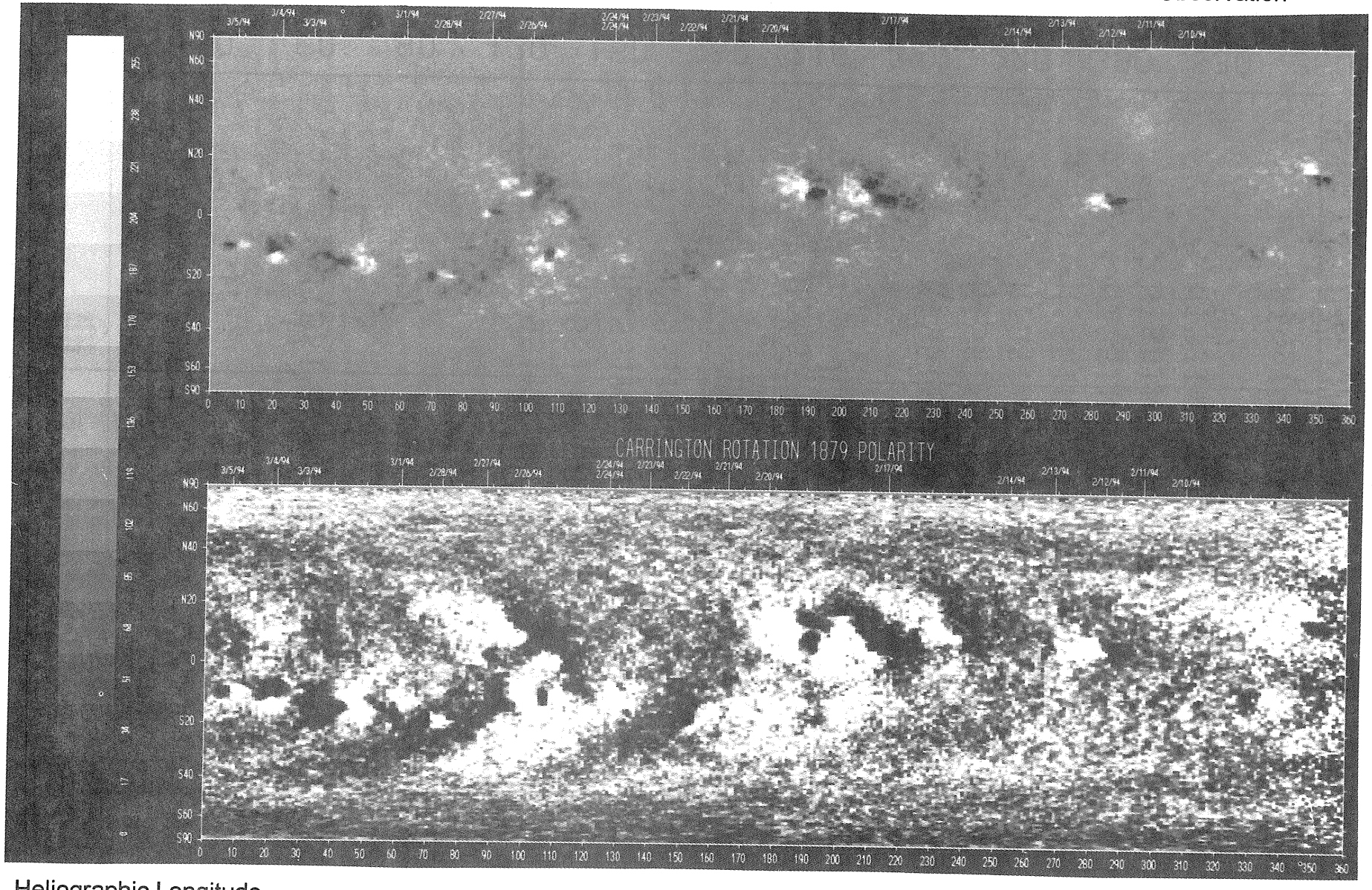
SOLAR MAGNETIC FIELD SYNOPTIC CHART

CARRINGTON ROTATION NUMBER 1879

(6 February to 6 March 1994)

National Solar Observatory/Kitt Peak

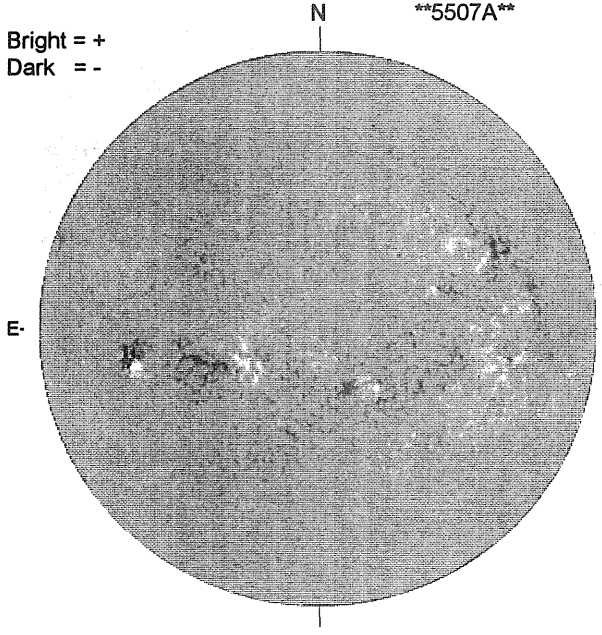
Dates of Observation



Heliographic Longitude

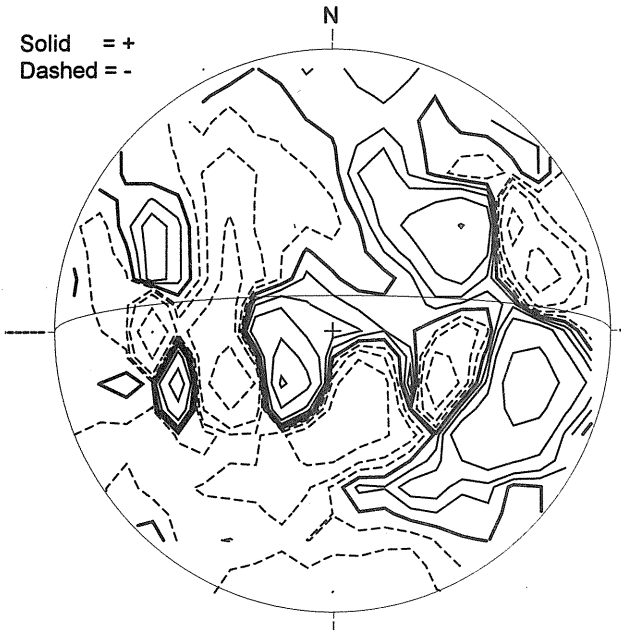
MARCH 1, 1994 (P=-21.49, Bo =-7.22, Lo = 69.68)

KITT PEAK MAGNETOGRAM



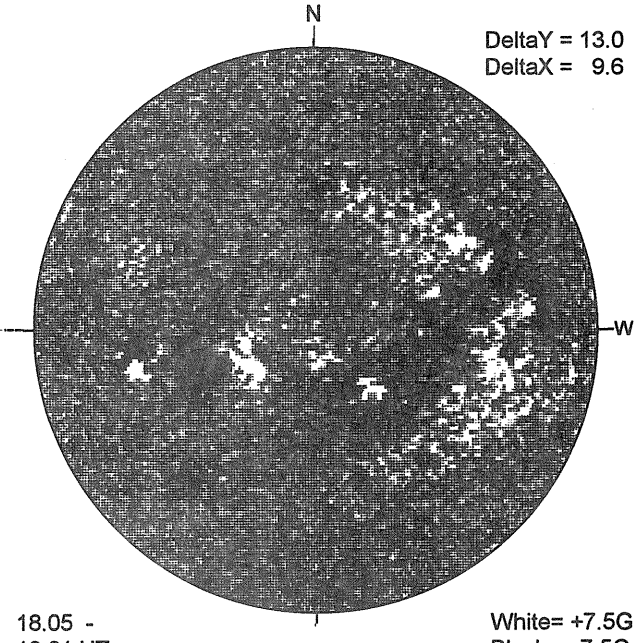
1523 UT

STANFORD MAGNETOGRAM



2228 UT

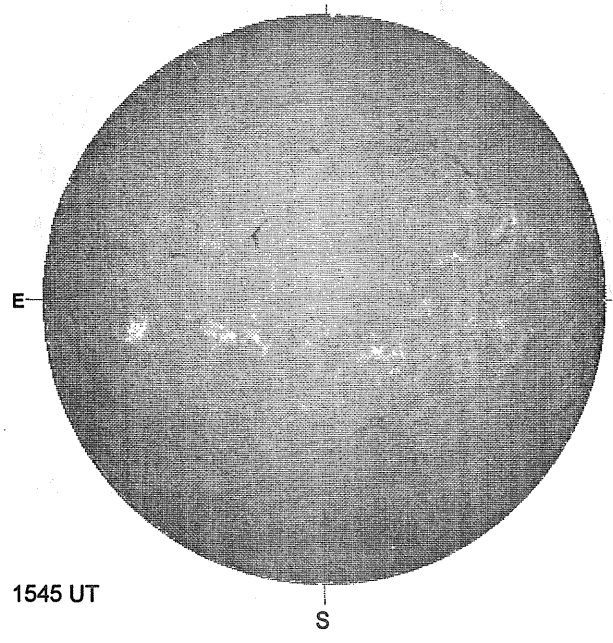
MT. WILSON MAGNETOGRAM



18.05 -
19.01 UT

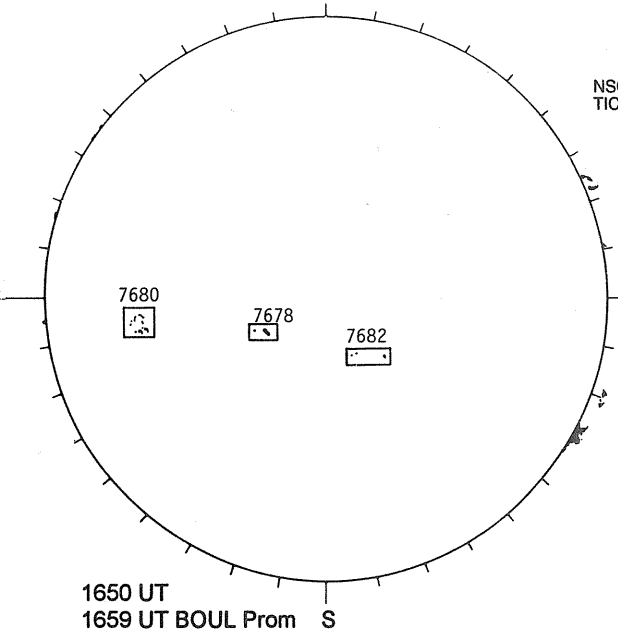
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



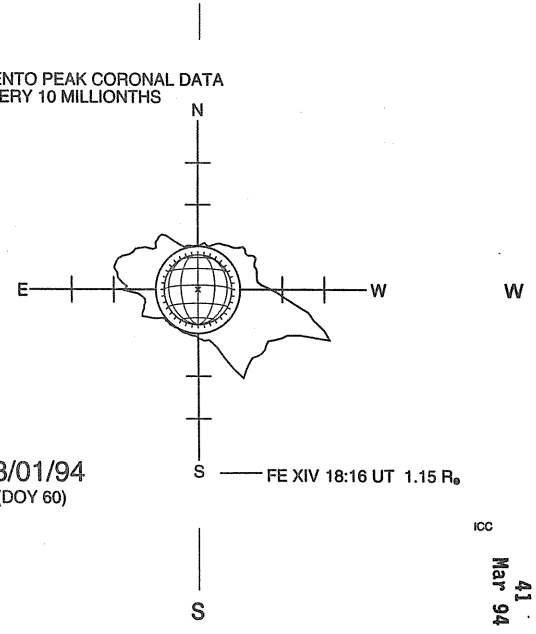
1545 UT

BOULDER SUNSPOT



1650 UT
1659 UT BOUL Prom

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/01/94
(DOY 60)

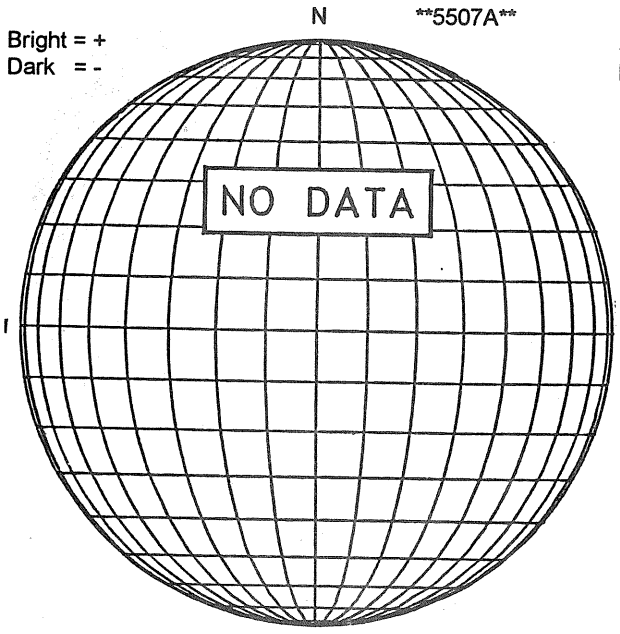
FE XIV 18:16 UT 1.15 $R_\odot$

ICC

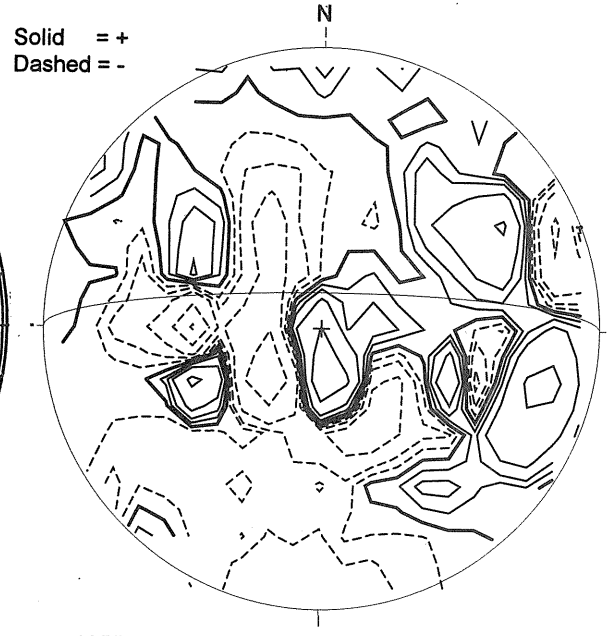
41
Mar 94

MARCH 2, 1994 (P=-21.74, Bo =-7.23, Lo = 56.50)

KITT PEAK MAGNETOGRAM

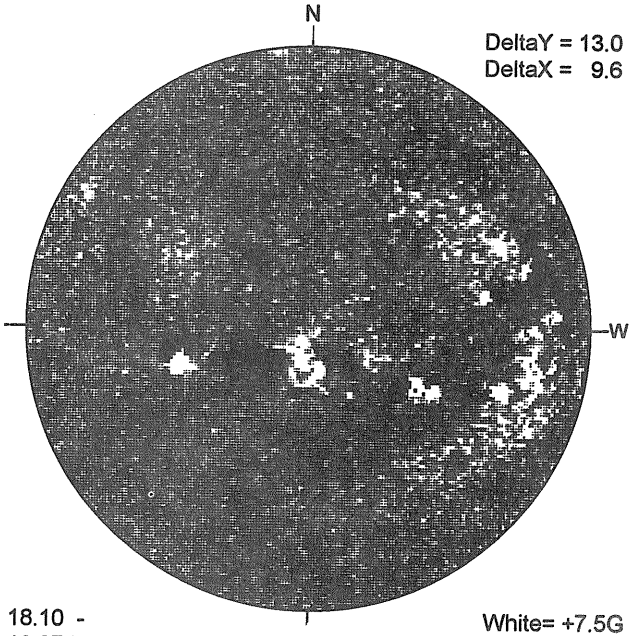


STANFORD MAGNETOGRAM



1855 UT

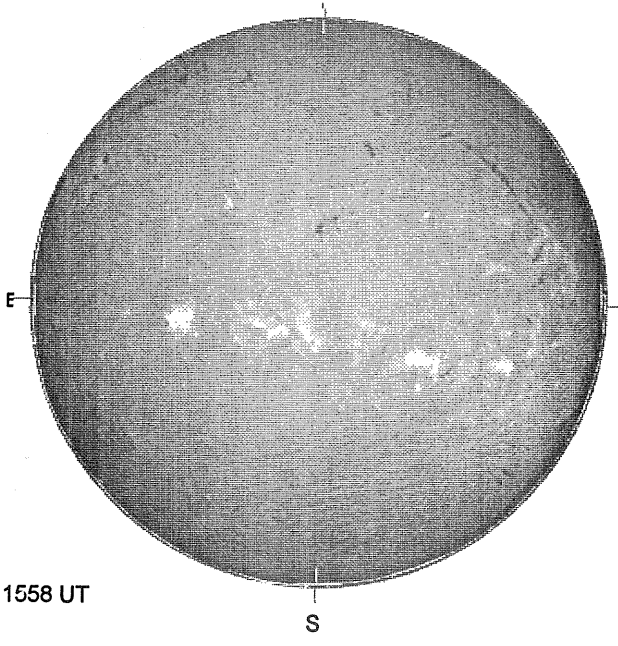
MT. WILSON MAGNETOGRAM



18.10 -
19.07 UT

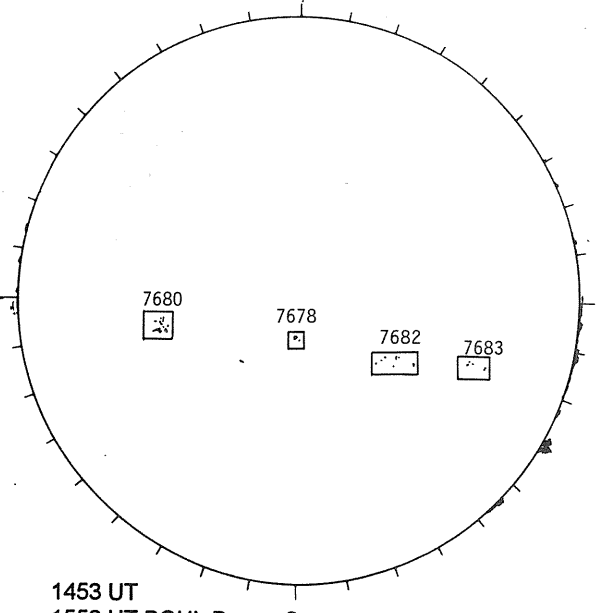
White= +7.5G
Black = -7.5G

BOULDER H-ALHPA



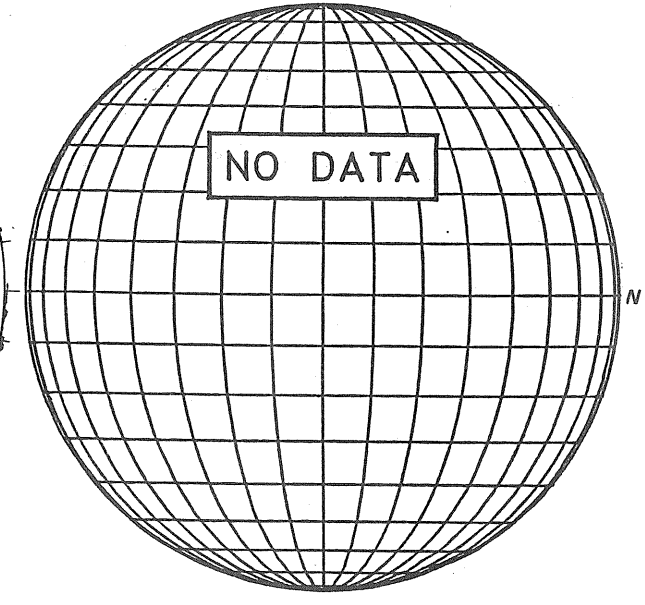
1558 UT

BOULDER SUNSPOT



1453 UT
1558 UT BOUL Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)

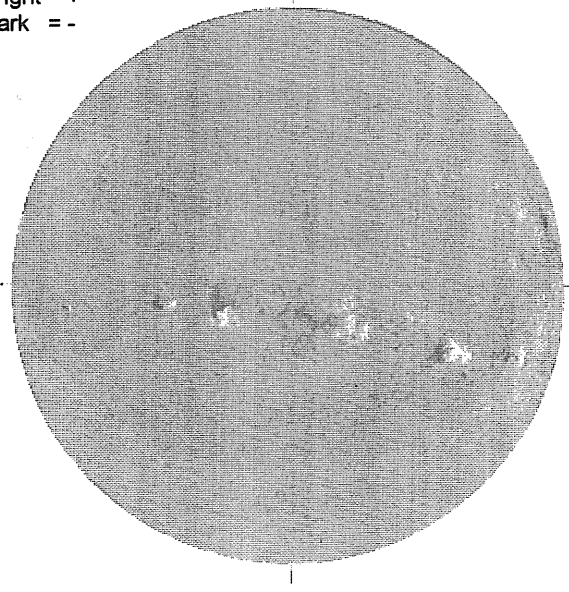


MARCH 3, 1994 (P=-21.98, Bo =-7.24, Lo = 43.33)

KITT PEAK MAGNETOGRAM

N **5507A**

Bright = +
Dark = -



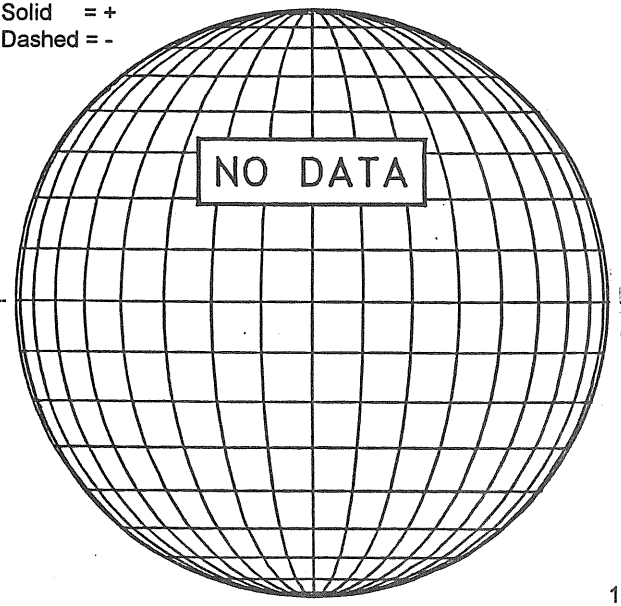
E

1953 UT

STANFORD MAGNETOGRAM

N

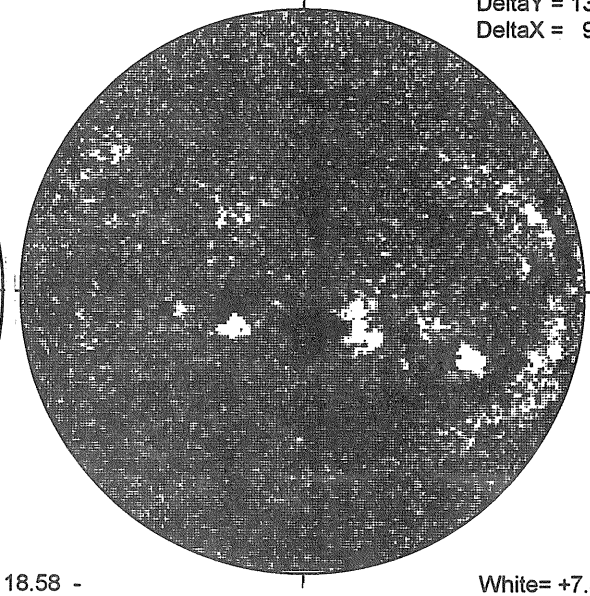
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

DeltaY = 13.0
DeltaX = 9.6

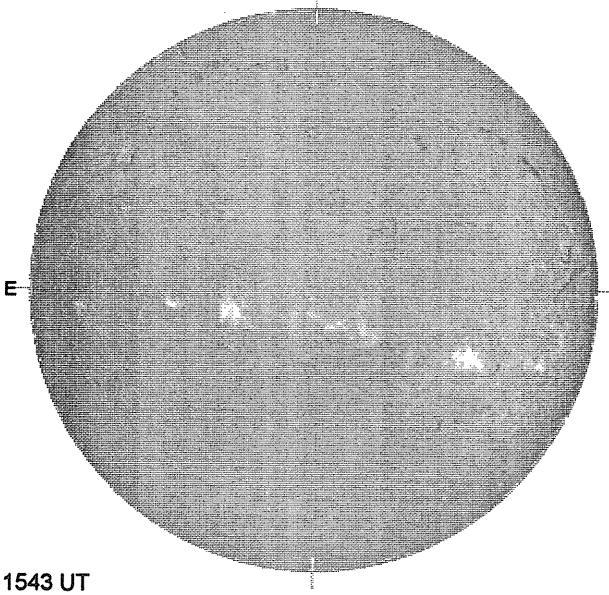


W

18.58 -
19.54 UT

White= +7.5G
Black = -7.5G

BOULDER H-ALPHA

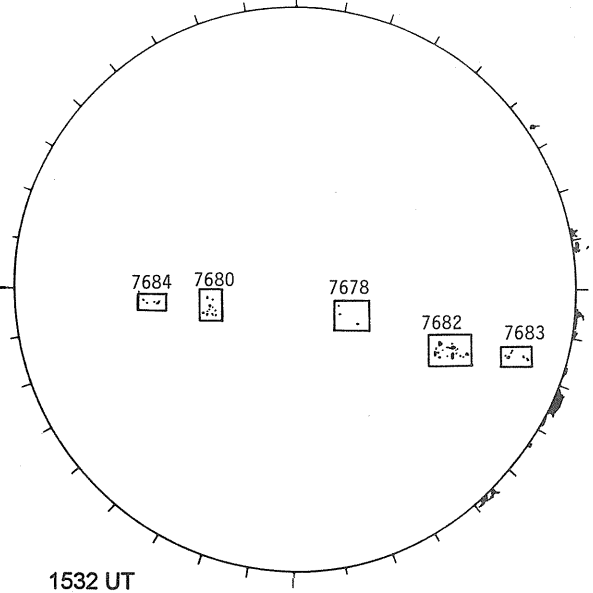


E

1543 UT

S

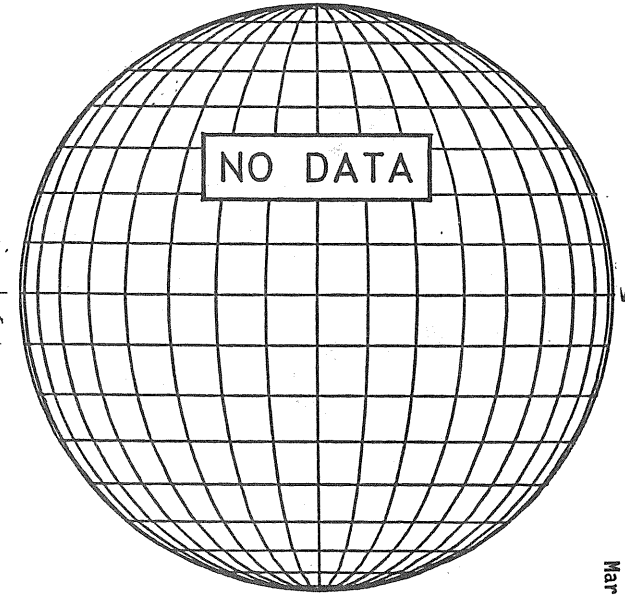
BOULDER SUNSPOT



1532 UT
1543 UT BOUL Prom

S

SACRAMENTO PEAK CORONA (1.15 Radii)



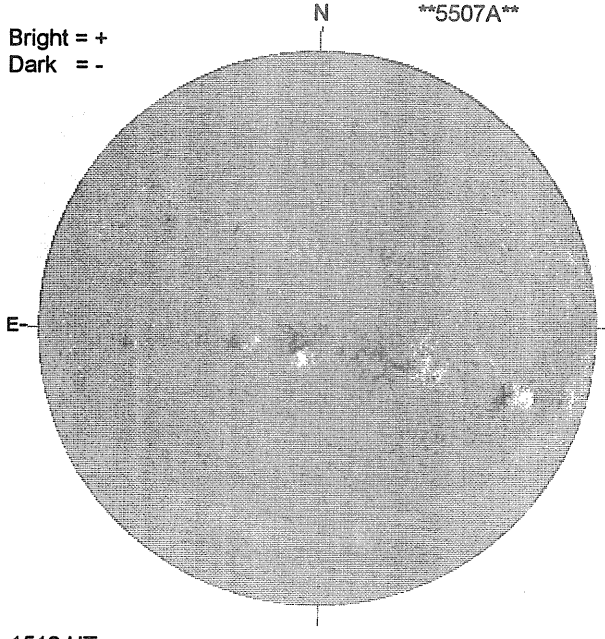
W

S

43
Mar 94

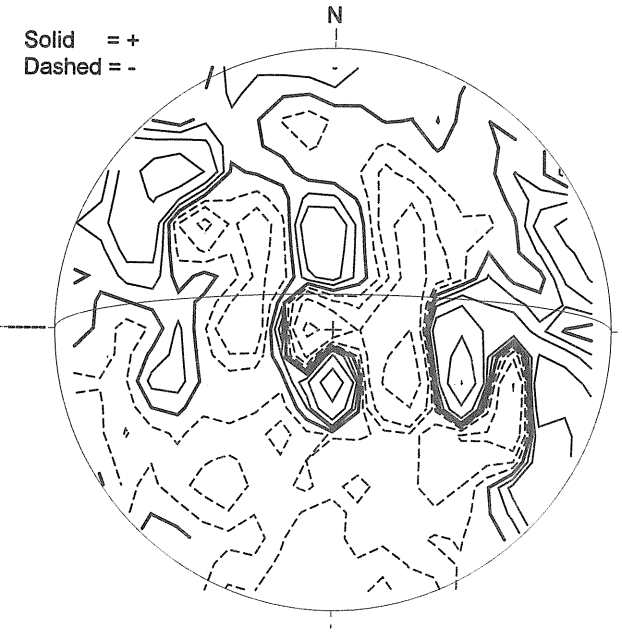
MARCH 4, 1994 (P=-22.22, Bo =-7.24, Lo = 30.16)

KITT PEAK MAGNETOGRAM



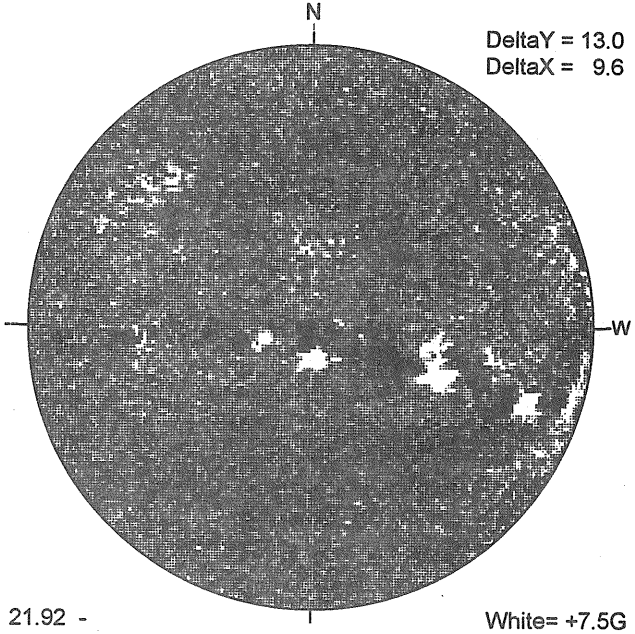
1512 UT

STANFORD MAGNETOGRAM



1931 UT

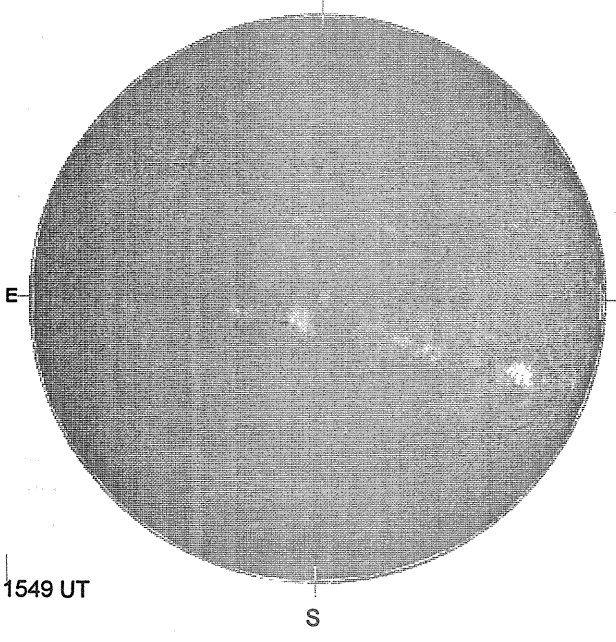
MT. WILSON MAGNETOGRAM



21.92 -
22.89 UT

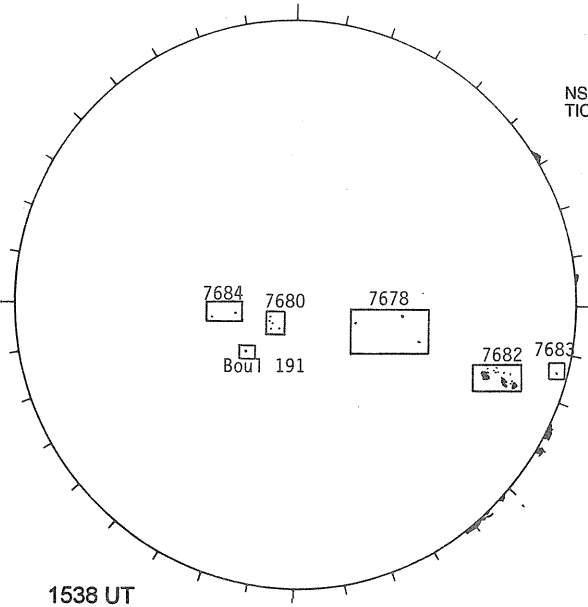
White= +7.5G
Black = -7.5G

BOULDER H-ALHPA



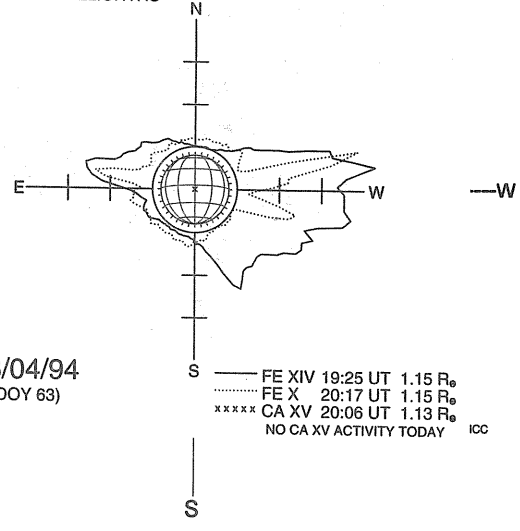
1549 UT

BOULDER SUNSPOT



1538 UT
1549 UT BOUL Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/04/94
(DOY 63)

FE XIV 19:25 UT 1.15 $R_\odot$
FE X 20:17 UT 1.15 $R_\odot$
CA XV 20:06 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

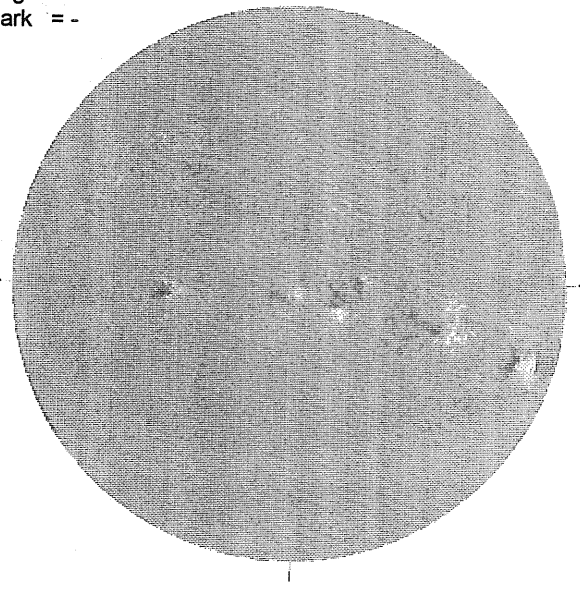
ICC

MARCH 5, 1994 (P=-22.45, Bo =-7.25, Lo = 16.98)

KITT PEAK MAGNETOGRAM

N **5507A**

Bright = +
Dark = -



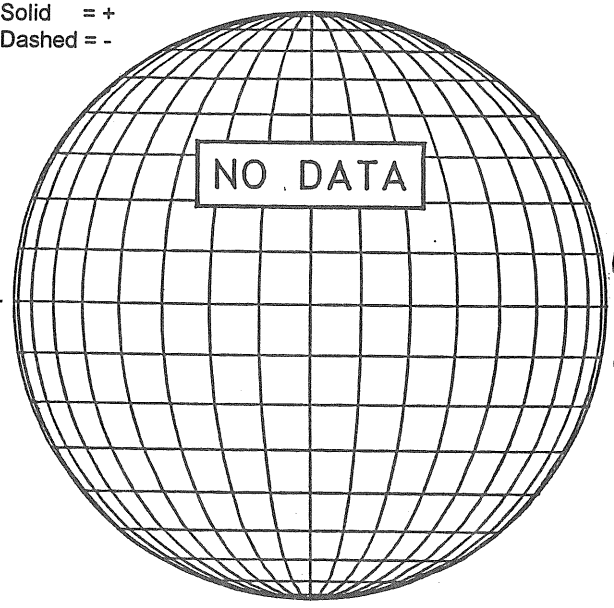
E-

1557 UT

STANFORD MAGNETOGRAM

N

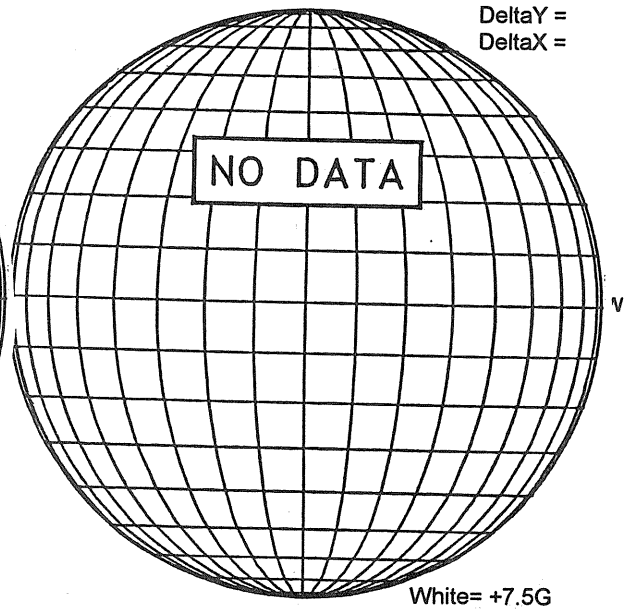
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

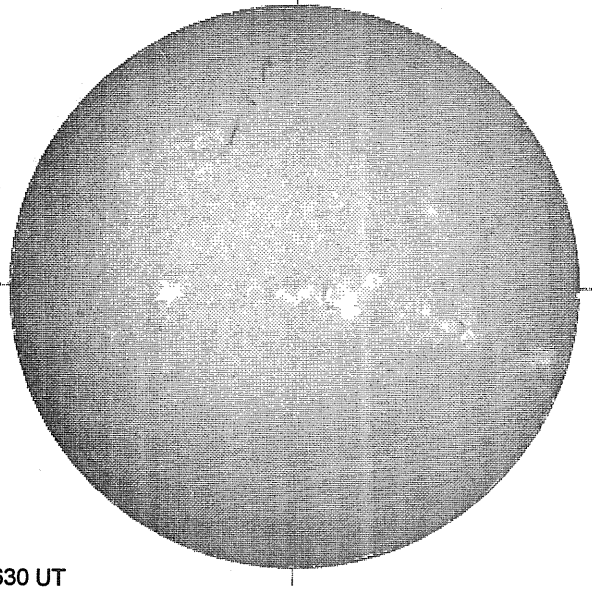
DeltaY =
DeltaX =



W

White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA

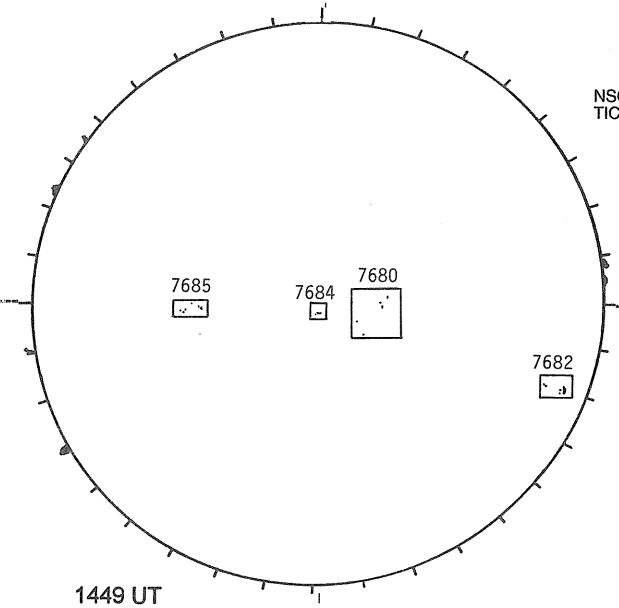


E

1630 UT

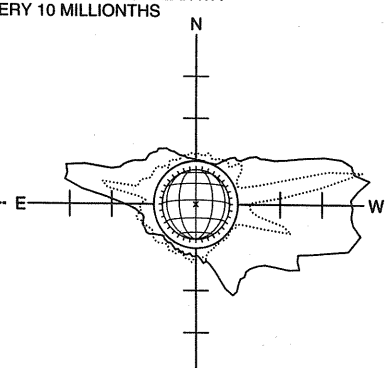
S

BOULDER SUNSPOT



1449 UT
1127 UT LOMN Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



W

03/05/94
(DOY 64)

FE XIV 16:25 UT 1.15 $R_\odot$
FE X 15:09 UT 1.15 $R_\odot$
CA XV 15:43 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

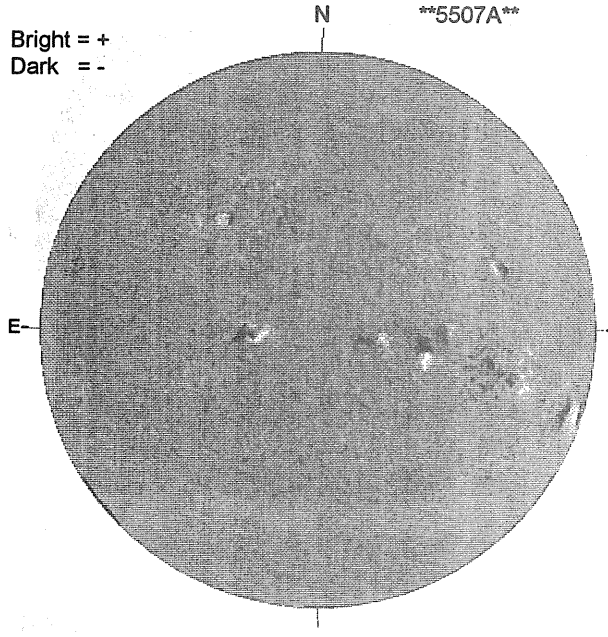
ICC

S

45
Mar 94

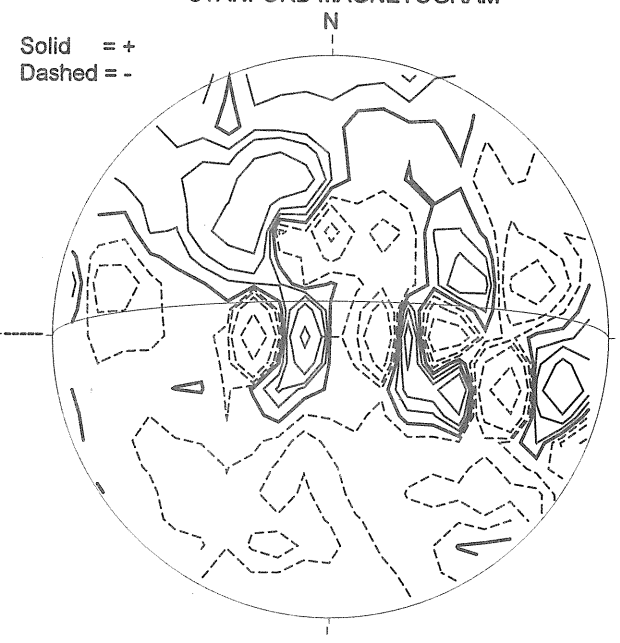
MARCH 6, 1994 (P=-22.68, Bo =-7.25, Lo = 3.81)

KITT PEAK MAGNETOGRAM



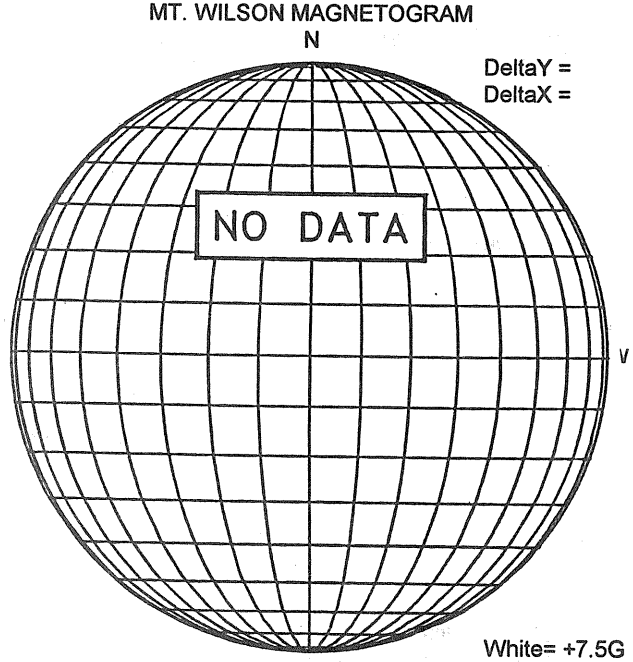
1532 UT

STANFORD MAGNETOGRAM



2229 UT

MT. WILSON MAGNETOGRAM

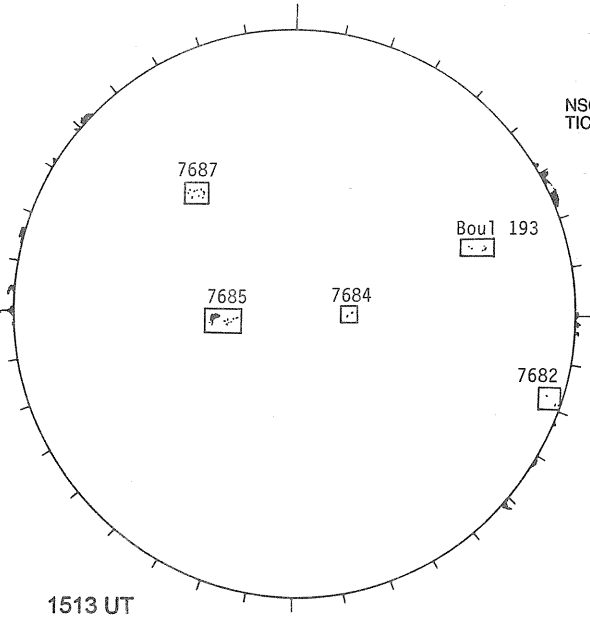


White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA

1632 UT

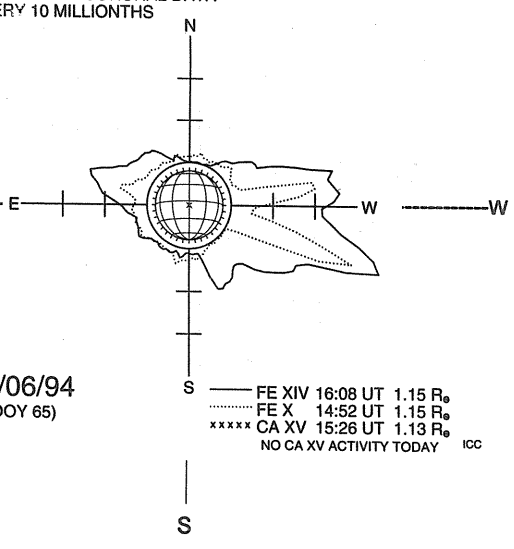
BOULDER SUNSPOT



1513 UT
1616 UT BOUL Prom S

NSO / SACRAMENTO PEAK CORONAL DATA

TICK MARKS EVERY 10 MILLIONTHS



03/06/94
(DOY 65)

FE XIV 16:08 UT 1.15 $R_\odot$
FE X 14:52 UT 1.15 $R_\odot$
CA XV 15:26 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

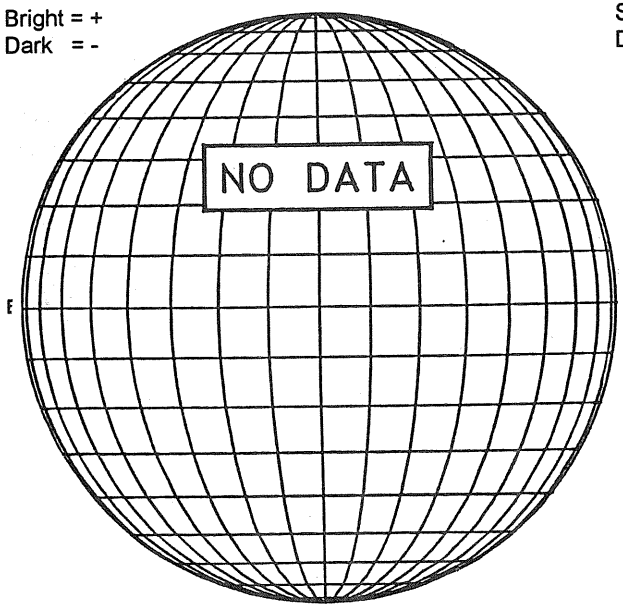
ICC

MARCH 7, 1994 (P=-22.89, Bo =-7.25, Lo = 350.63)

KITT PEAK MAGNETOGRAM

N **5507A**

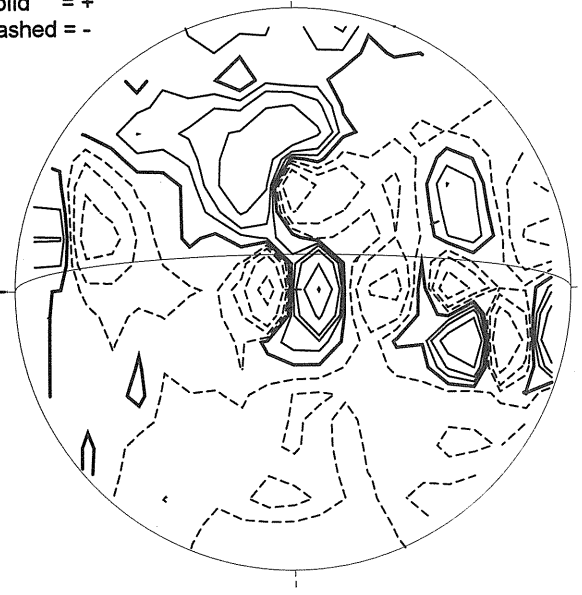
Bright = +
Dark = -



STANFORD MAGNETOGRAM

N

Solid = +
Dashed = -

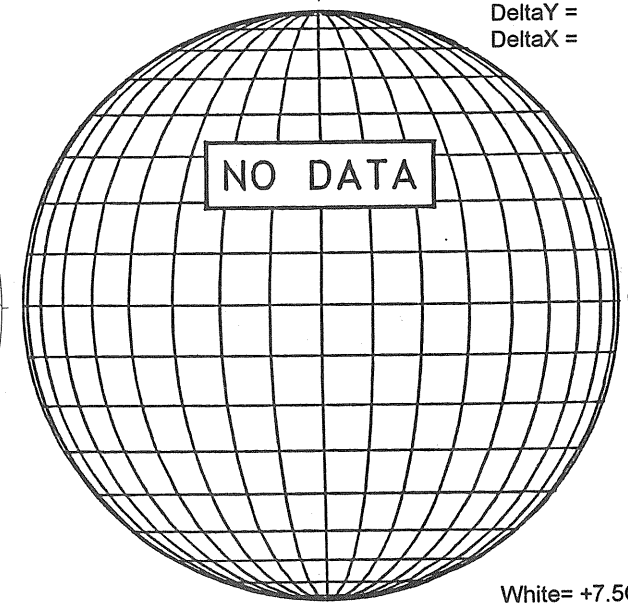


1823 UT

MT. WILSON MAGNETOGRAM

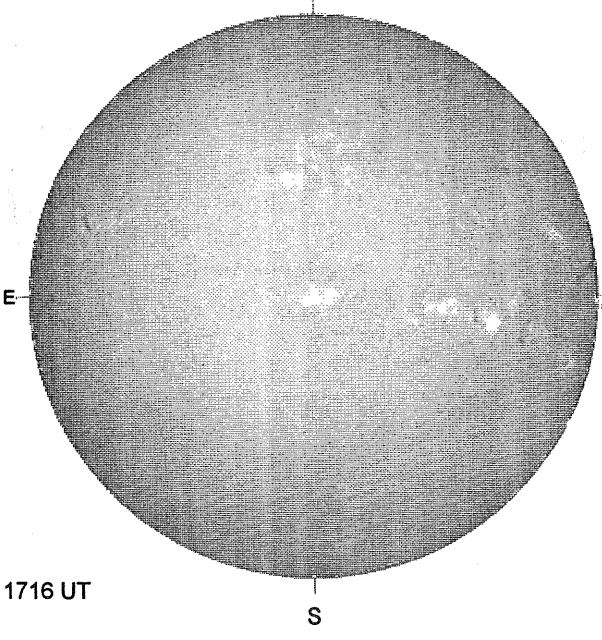
N

DeltaY =
DeltaX =



White= +7.5G
Black = -7.5G

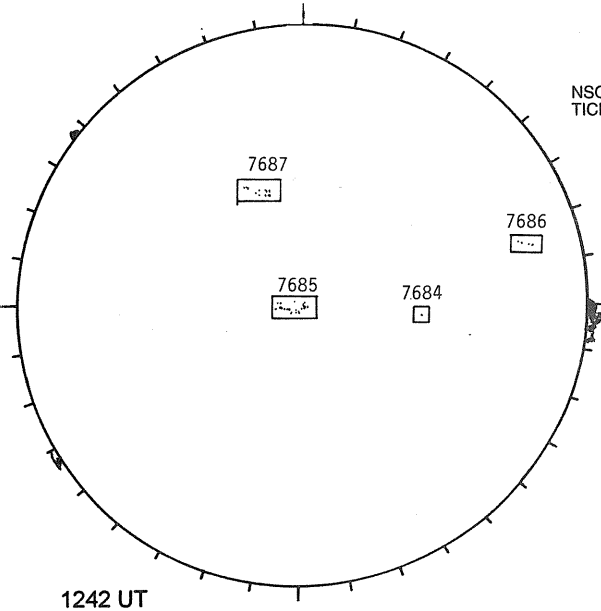
SACRAMENTO PEAK H-ALPHA



1716 UT

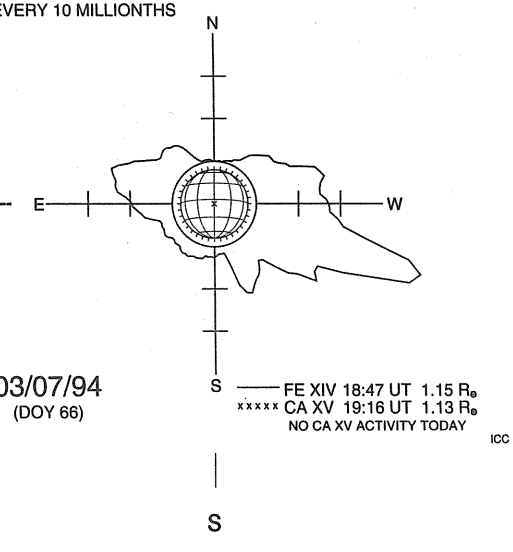
S

RAMEY SUNSPOT



1242 UT
0718 UT LOMN Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/07/94
(DOY 66)

FE XIV 18:47 UT 1.15 $R_\odot$
xxxxx CA XV 19:16 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

ICC

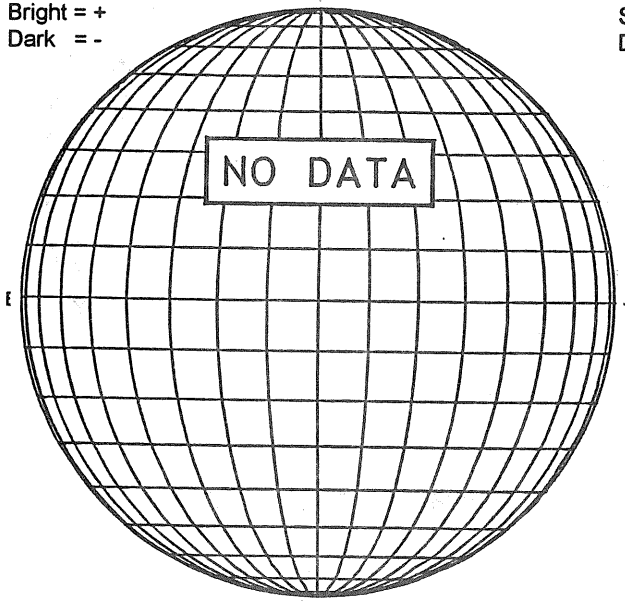
47
Mar 94

MARCH 8, 1994 (P=-23.11, Bo =-7.25, Lo = 337.46)

KITT PEAK MAGNETOGRAM

N **5507A**

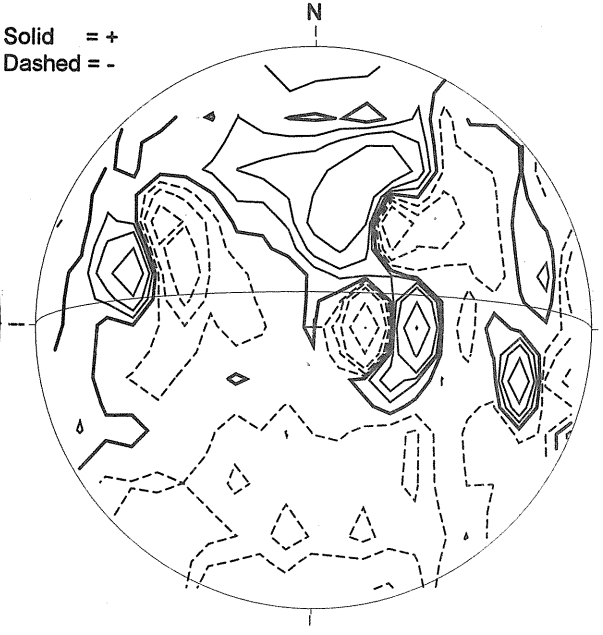
Bright = +
Dark = -



STANFORD MAGNETOGRAM

N

Solid = +
Dashed = -

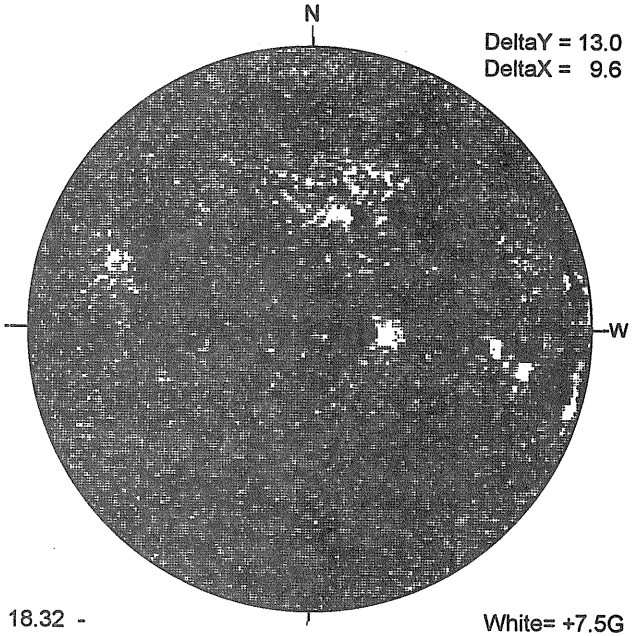


2302 UT

MT. WILSON MAGNETOGRAM

N

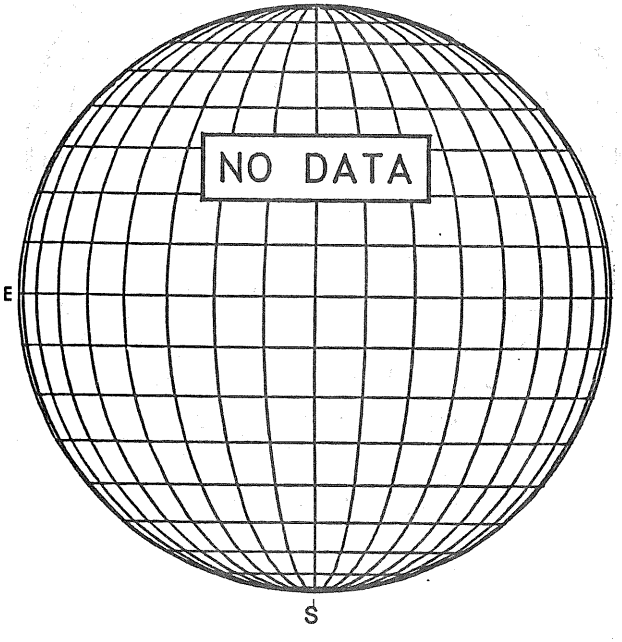
DeltaY = 13.0
DeltaX = 9.6



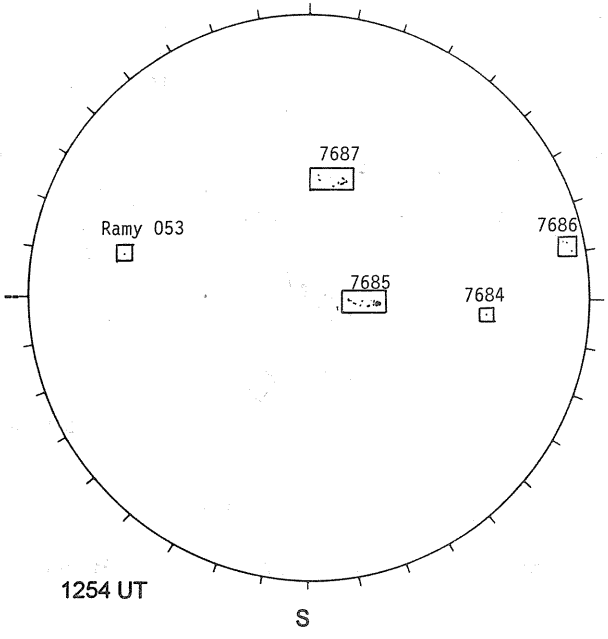
18.32 -
19.28 UT

White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA

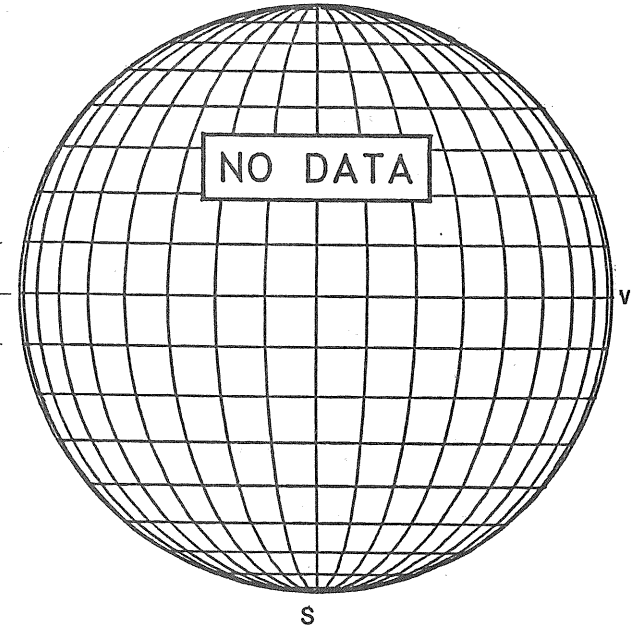


RAMEY SUNSPOT



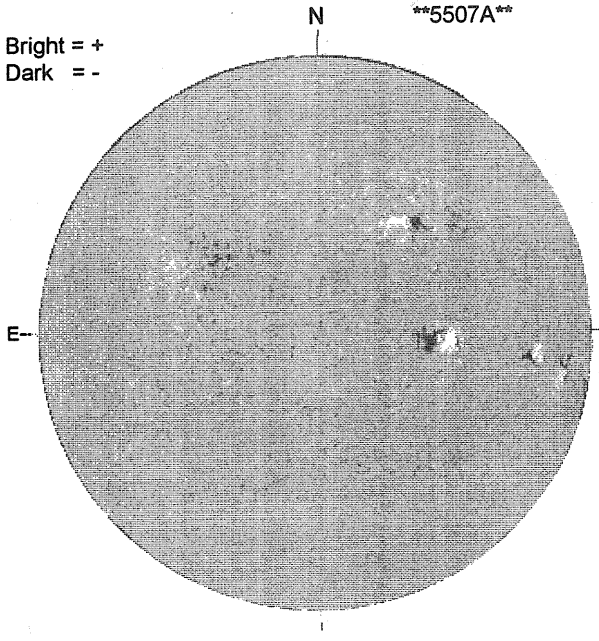
1254 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



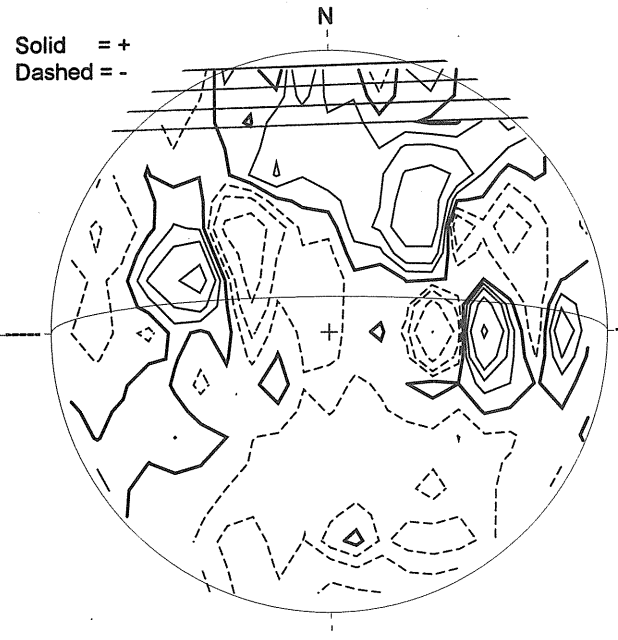
MARCH 9, 1994 (P=-23.31, Bo =-7.24, Lo = 324.28)

KITT PEAK MAGNETOGRAM



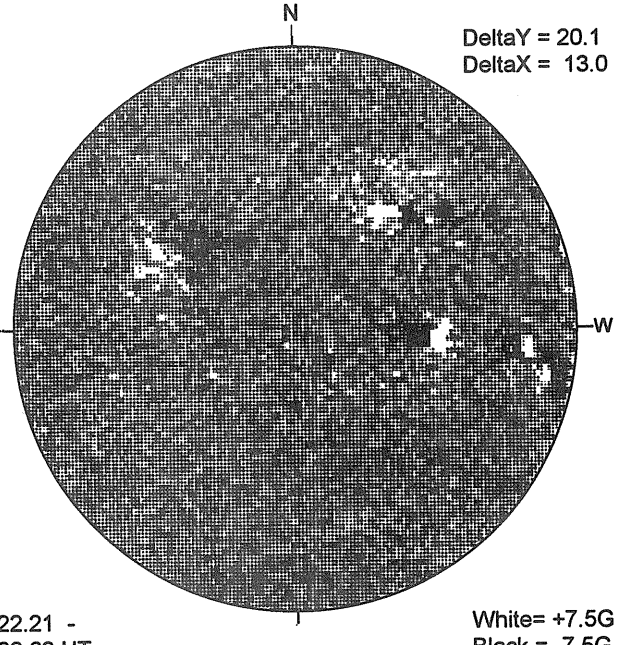
1607 UT

STANFORD MAGNETOGRAM



2243 UT

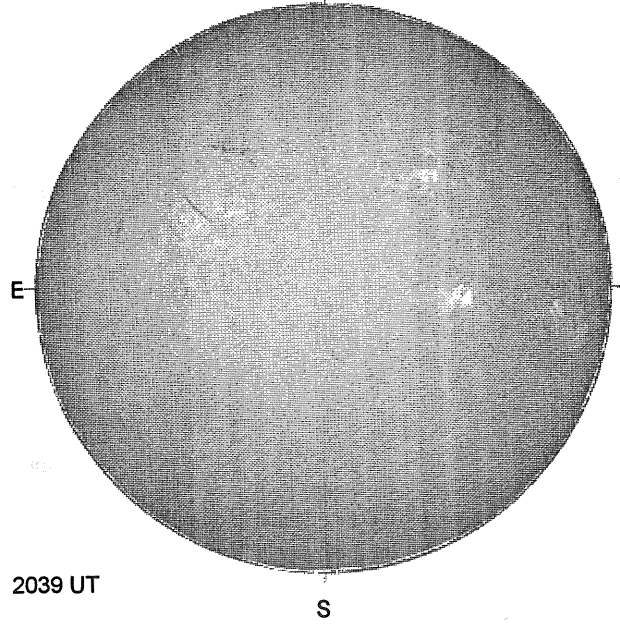
MT. WILSON MAGNETOGRAM



22.21 -
22.63 UT

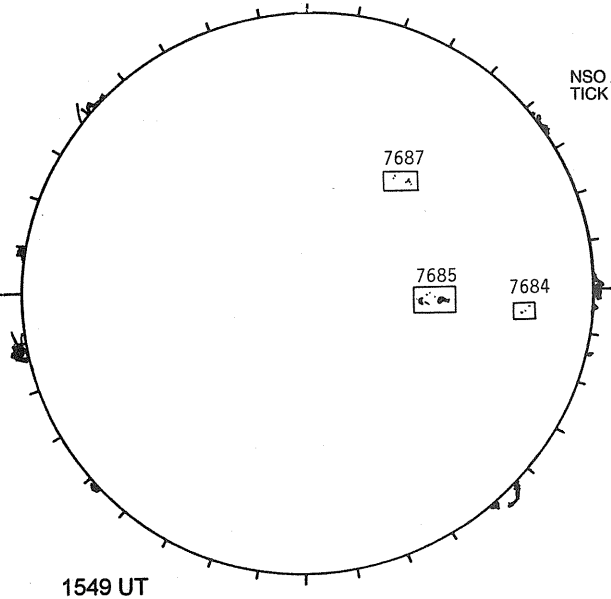
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



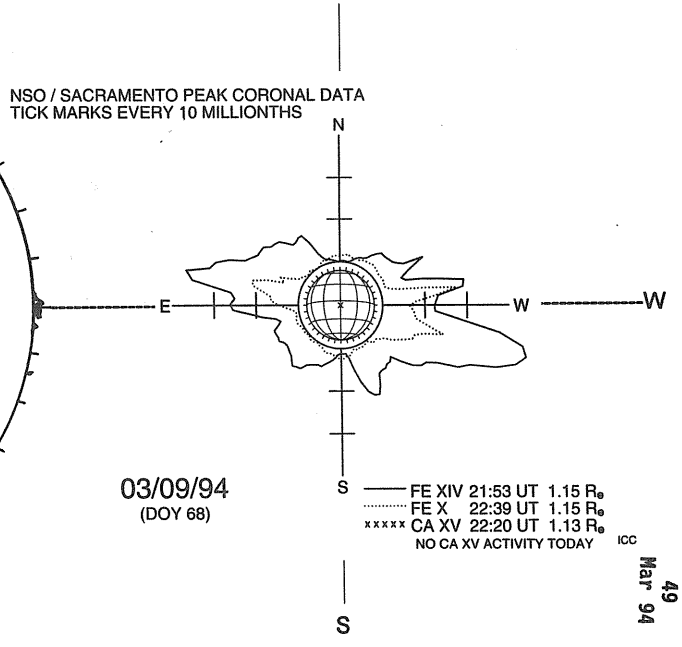
2039 UT

BOULDER SUNSPOT



1549 UT
0559 UT LOMN Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/09/94
(DOY 68)

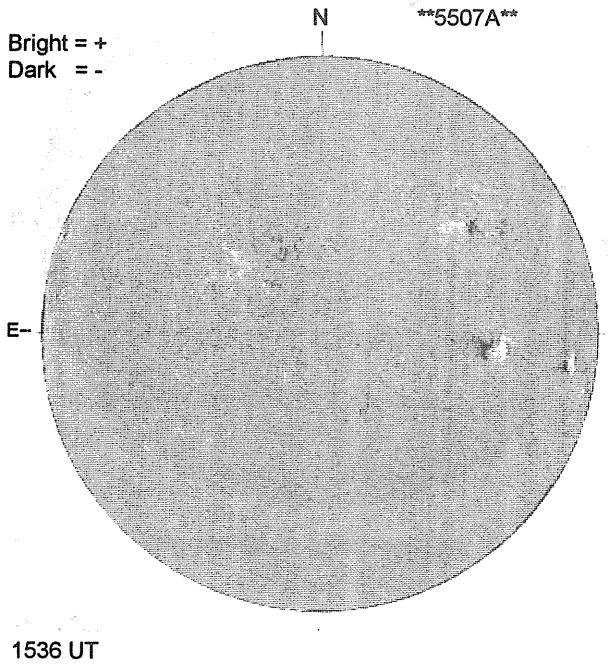
FE XIV 21:53 UT 1.15 R$_\odot$
FE X 22:39 UT 1.15 R$_\odot$
CA XV 22:20 UT 1.13 R$_\odot$
NO CA XV ACTIVITY TODAY

ICC

49
Mar 94

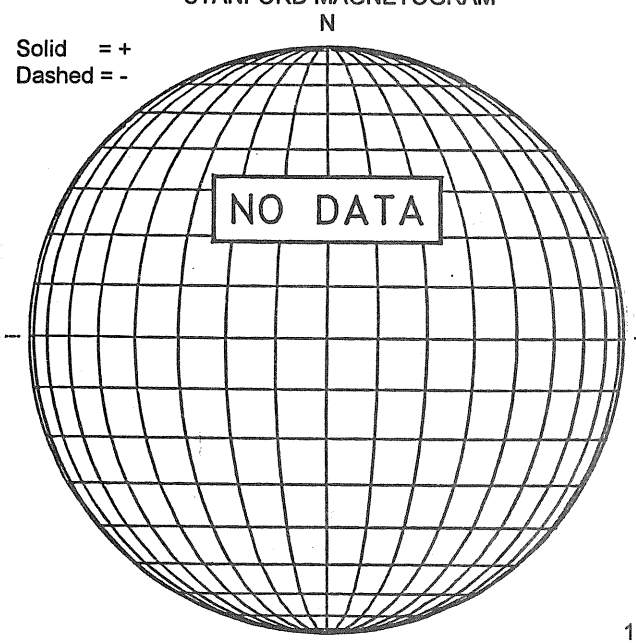
MARCH 10, 1994 (P=-23.51, Bo =-7.24, Lo = 311.10)

KITT PEAK MAGNETOGRAM



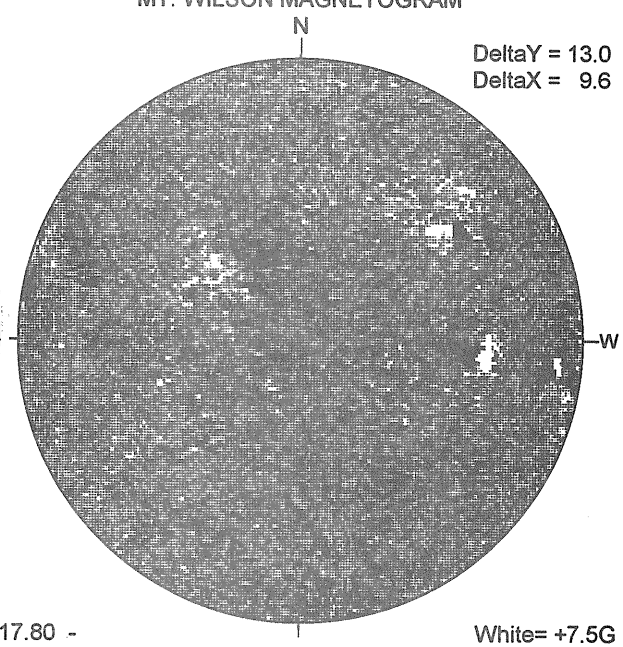
1536 UT

STANFORD MAGNETOGRAM



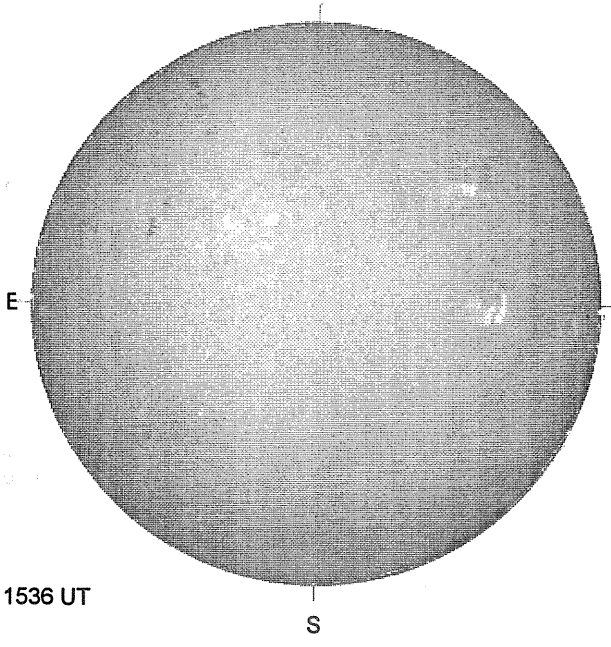
17.80 -
18.76 UT

MT. WILSON MAGNETOGRAM



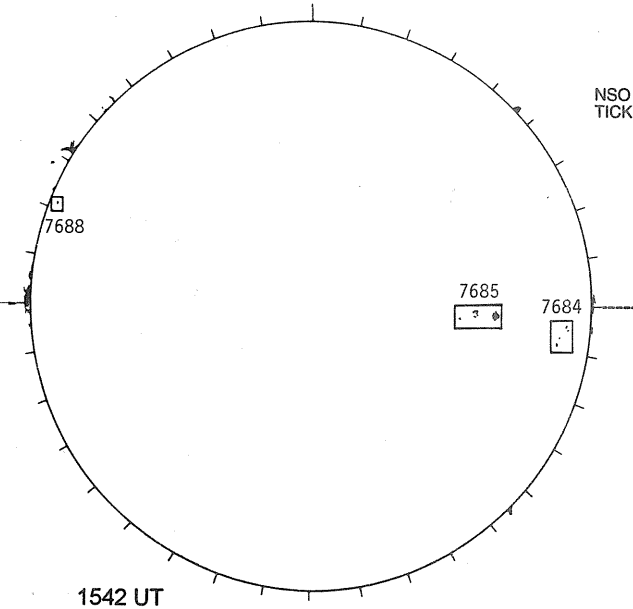
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



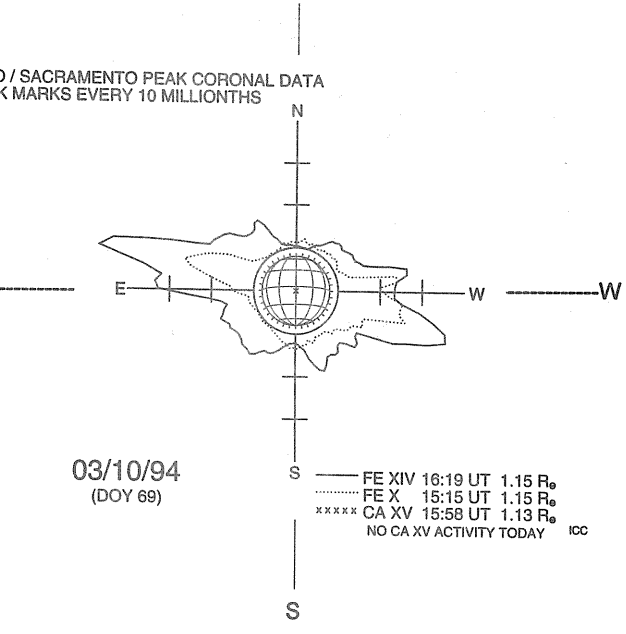
1536 UT

BOULDER SUNSPOT



1542 UT
1554 UT BOUL Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



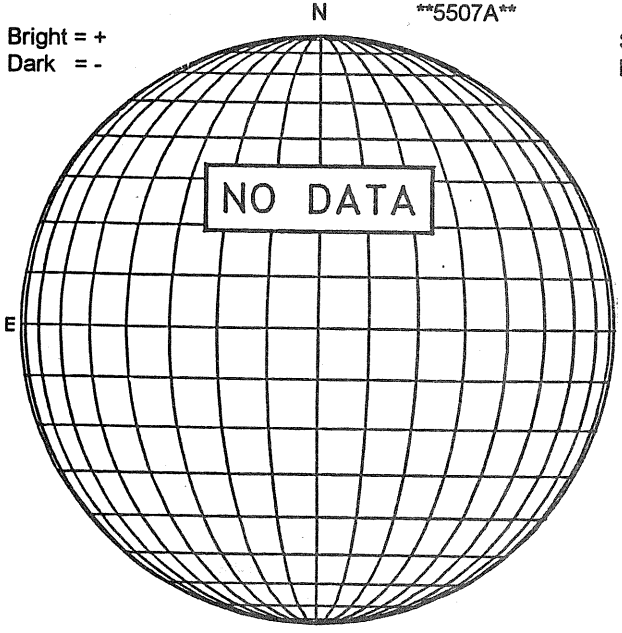
03/10/94
(DOY 69)

FE XIV 16:19 UT 1.15 $R_\odot$
FE X 15:15 UT 1.15 $R_\odot$
CA XV 15:58 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

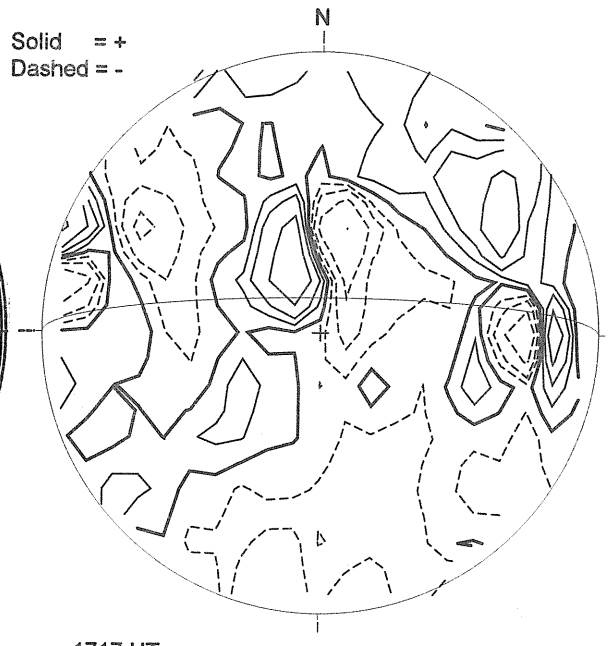
ICC

MARCH 11, 1994 (P=-23.70 Bo =-7.23, Lo = 297.93)

KITT PEAK MAGNETOGRAM

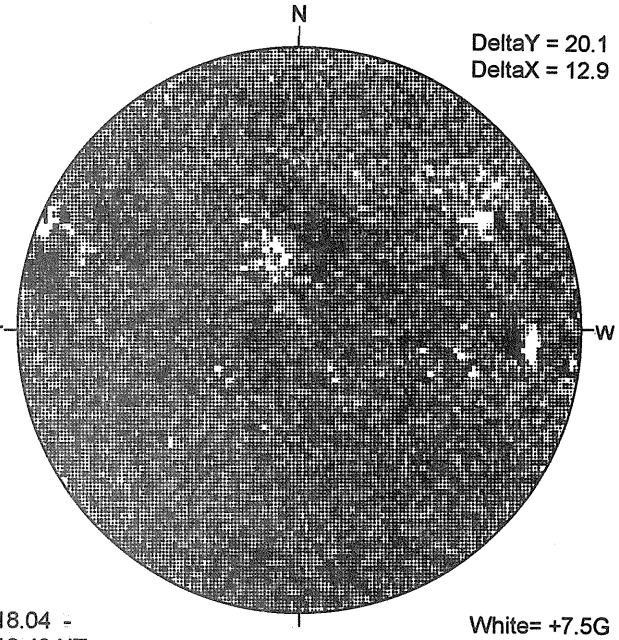


STANFORD MAGNETOGRAM



1717 UT

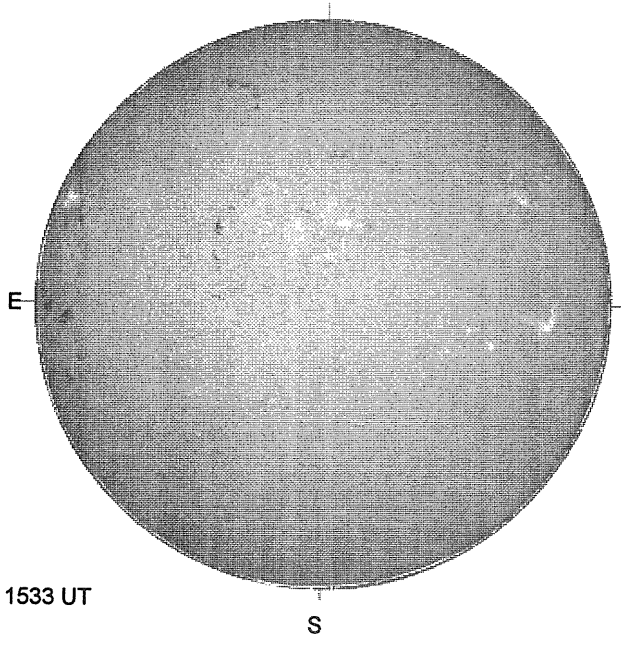
MT. WILSON MAGNETOGRAM



18.04 -
18.46 UT

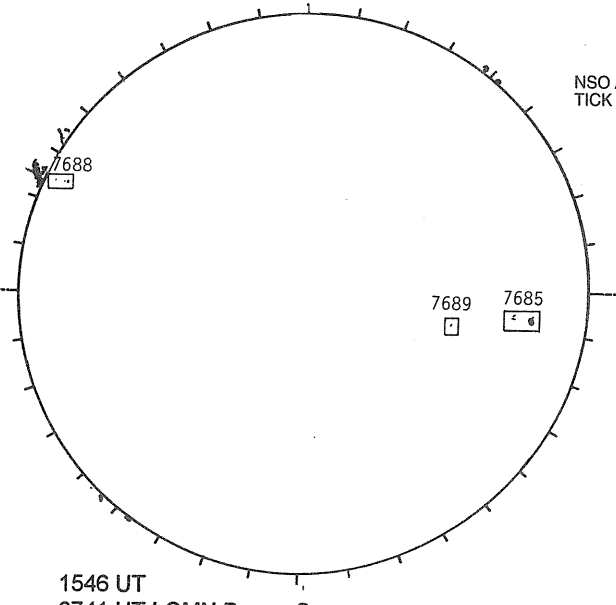
White= +7.5G
Black = -7.5G

----- SACRAMENTO PEAK H-ALPHA



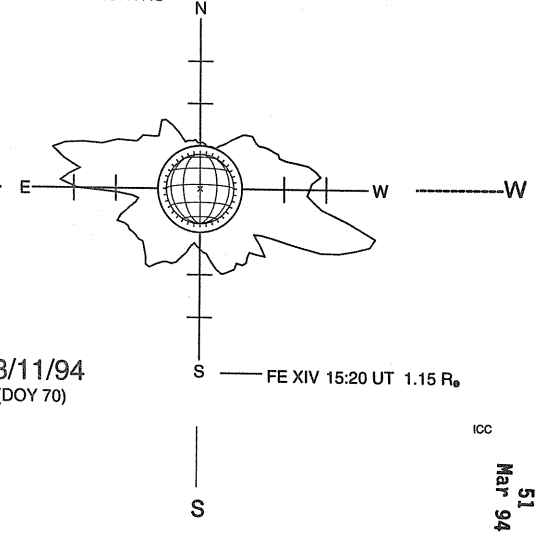
1533 UT

BOULDER SUNSPOT



1546 UT
0741 UT LOMN Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/11/94
(DOY 70)

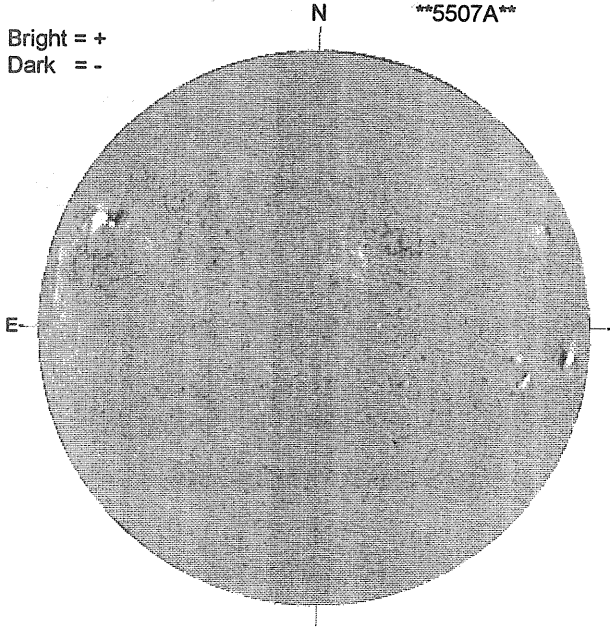
FE XIV 15:20 UT 1.15 $R_\odot$

ICC

51
Mar 94

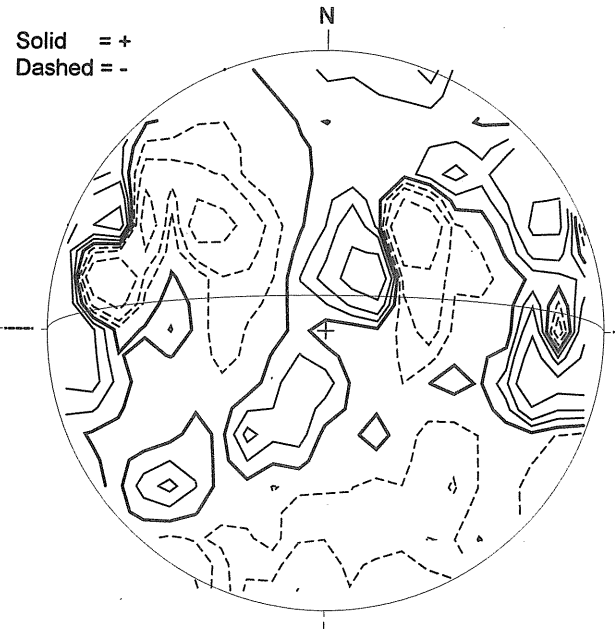
MARCH 12, 1994 (P=-23.89, Bo =-7.22, Lo = 284.75)

KITT PEAK MAGNETOGRAM



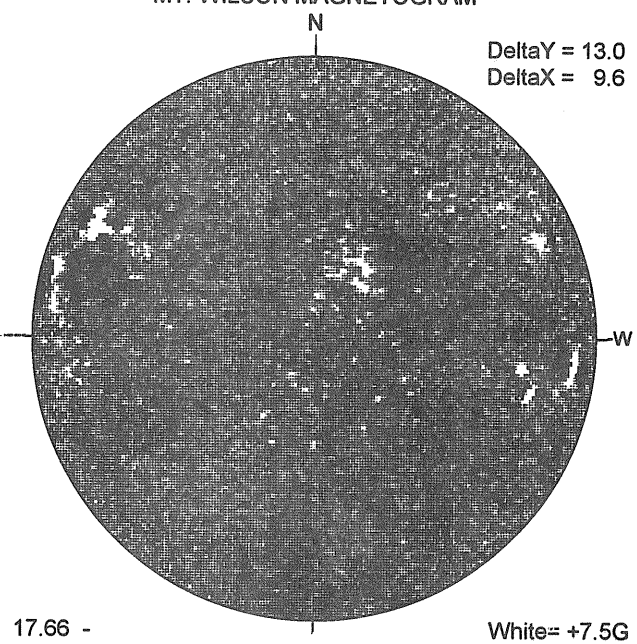
1521 UT

STANFORD MAGNETOGRAM



1713 UT

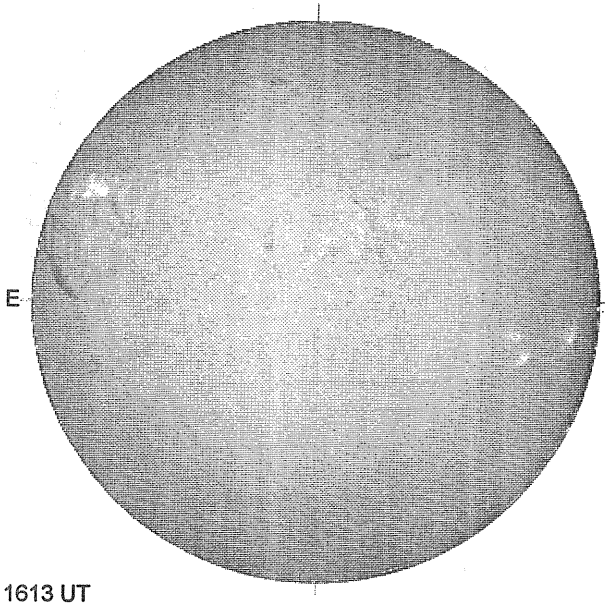
MT. WILSON MAGNETOGRAM



17.66 -
18.62 UT

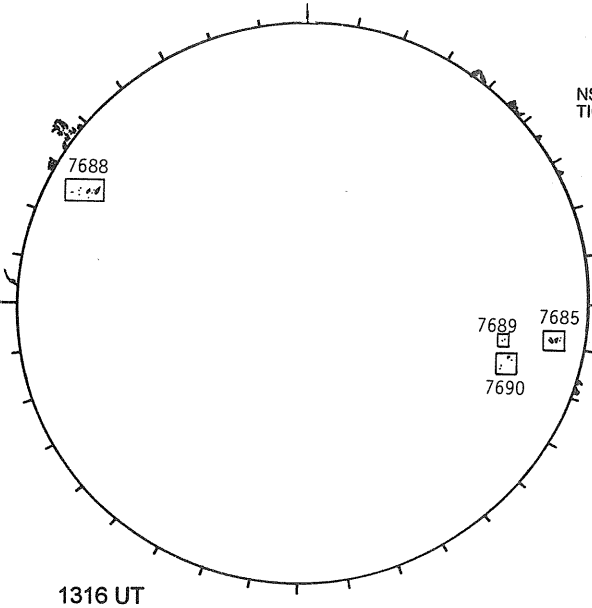
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



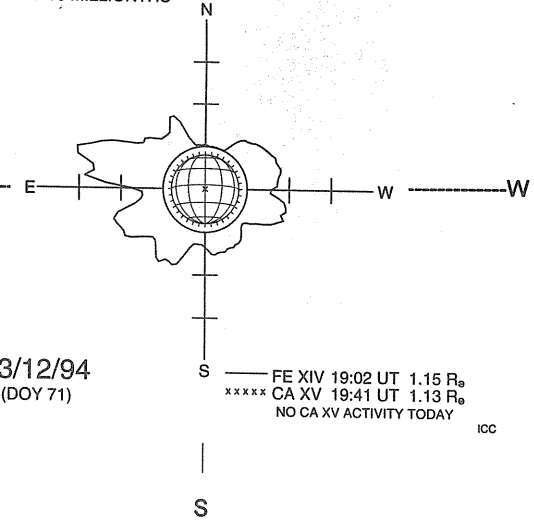
1613 UT

RAMEY SUNSPOT



1316 UT
0748 UT LOMN Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



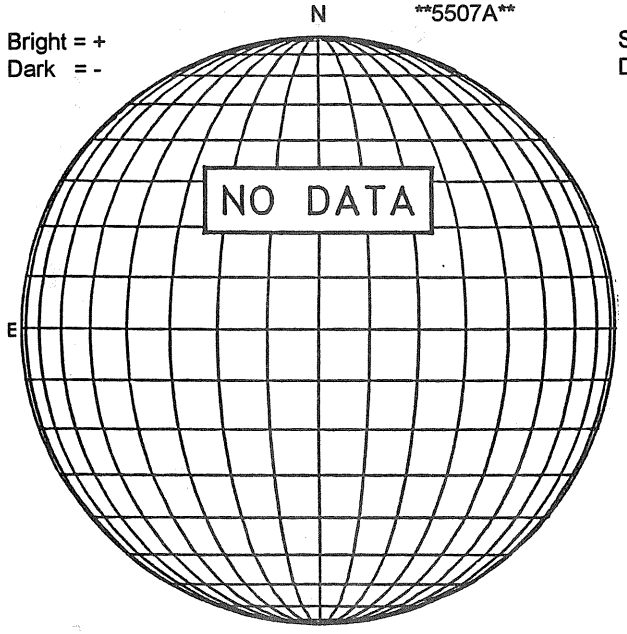
03/12/94
(DOY 71)

FE XIV 19:02 UT 1.15 R_s
xxxxx CA XV 19:41 UT 1.13 R_s
NO CA XV ACTIVITY TODAY

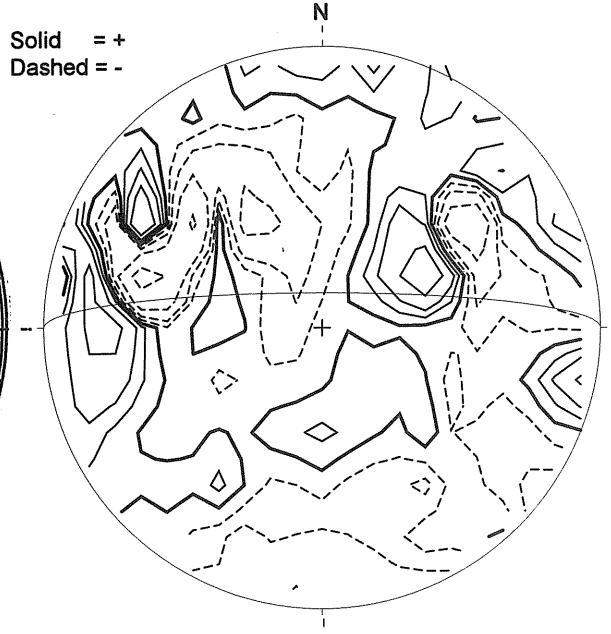
ICC

MARCH 13, 1994 (P=-24.07, Bo =-7.20, Lo = 271.57)

KITT PEAK MAGNETOGRAM

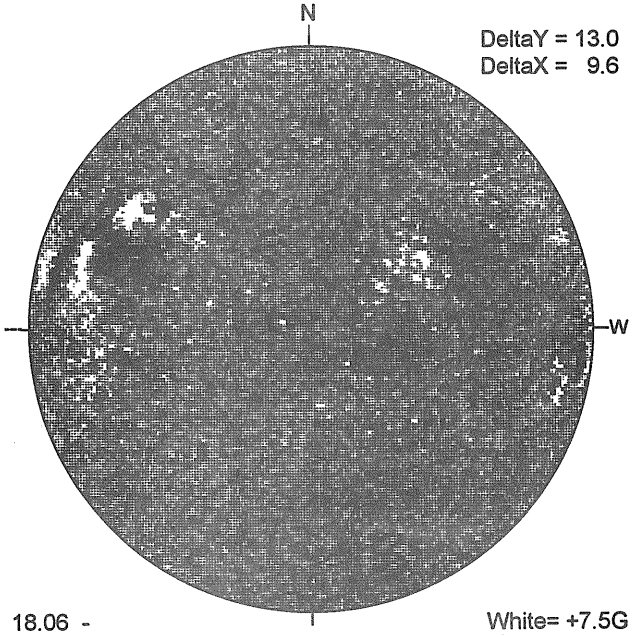


STANFORD MAGNETOGRAM



1753 UT

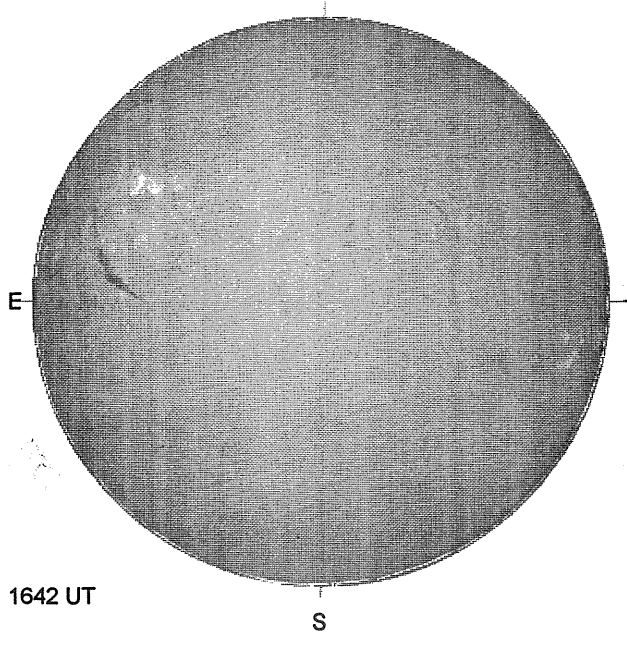
MT. WILSON MAGNETOGRAM



18.06 -
19.02 UT

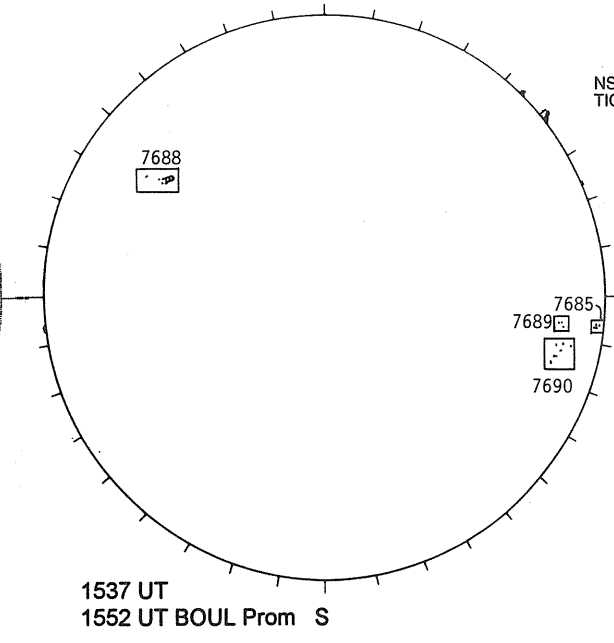
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



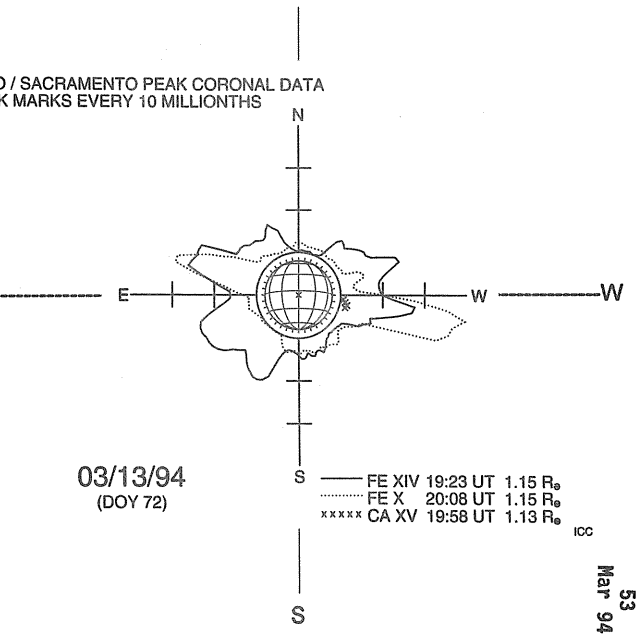
1642 UT

BOULDER SUNSPOT



1537 UT
1552 UT BOUL Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/13/94
(DOY 72)

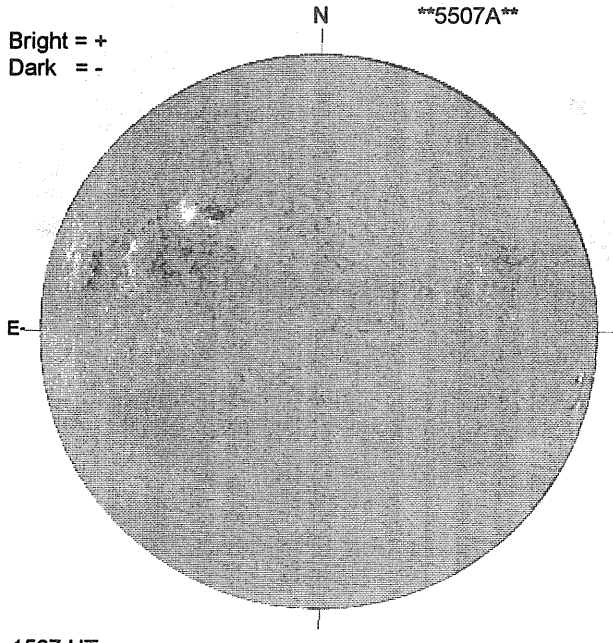
FE XIV 19:23 UT 1.15 $R_\odot$
FE X 20:08 UT 1.15 $R_\odot$
CA XV 19:58 UT 1.13 $R_\odot$

ICC

53
Mar 94

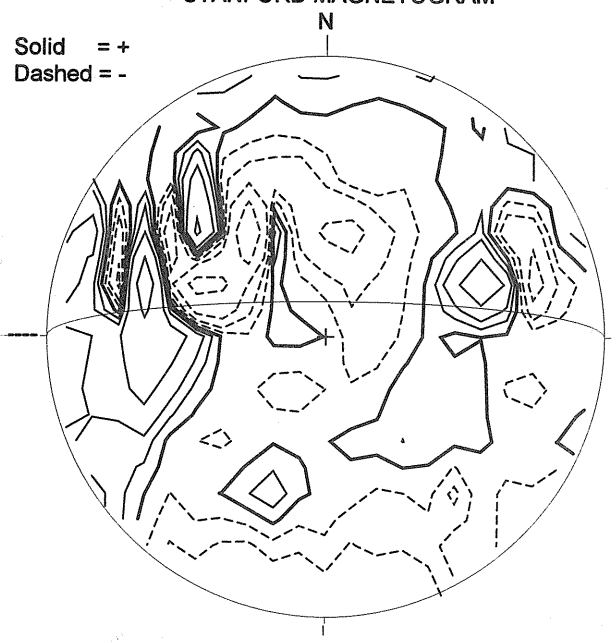
MARCH 14, 1994 (P=-24.24, Bo =-7.19, Lo = 258.39)

KITT PEAK MAGNETOGRAM



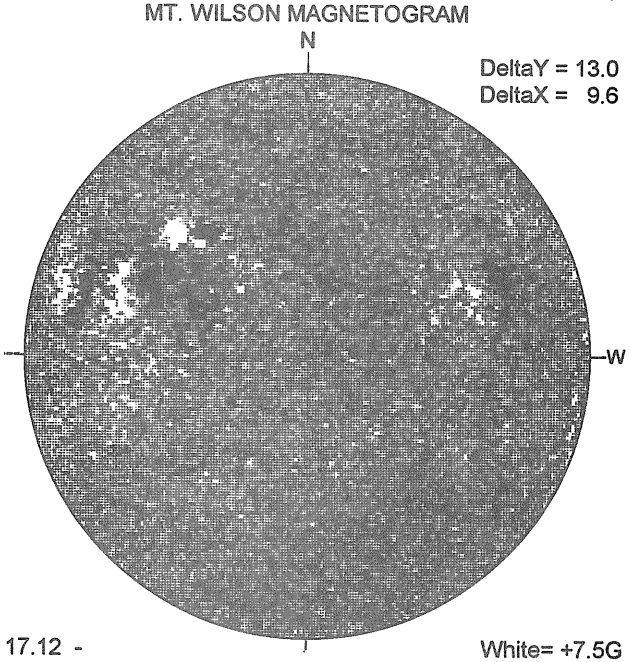
1507 UT

STANFORD MAGNETOGRAM



1946 UT

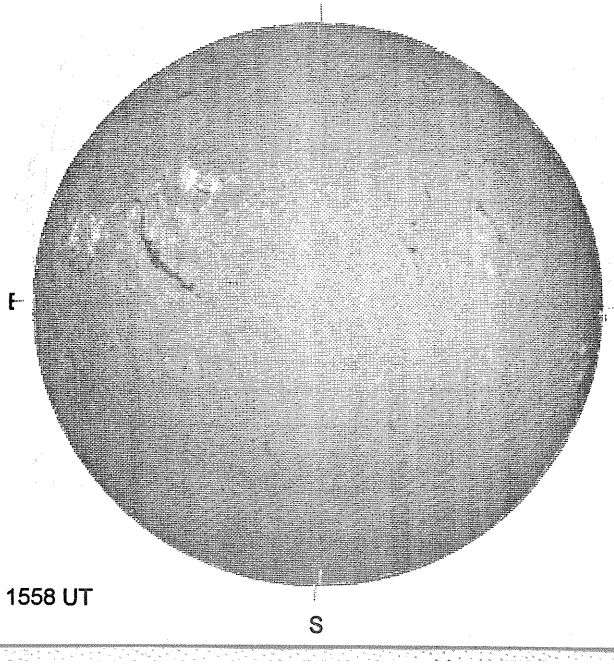
MT. WILSON MAGNETOGRAM



17.12 -
18.07 UT

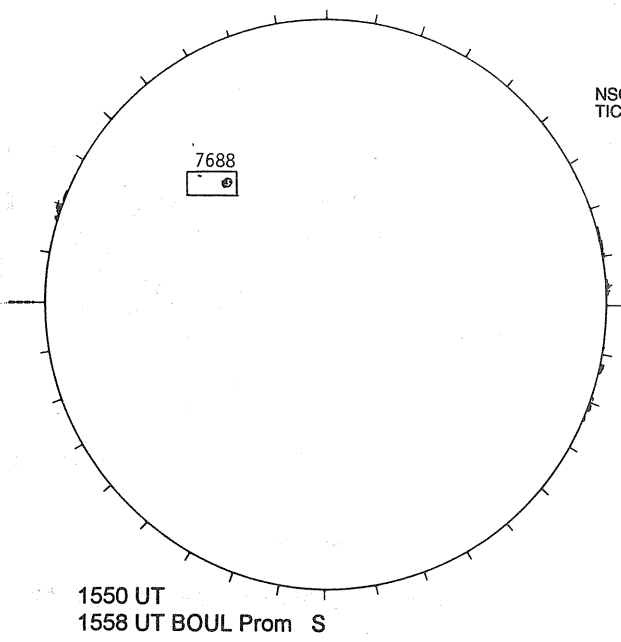
White= +7.5G
Black = -7.5G

BOULDER H-ALPHA



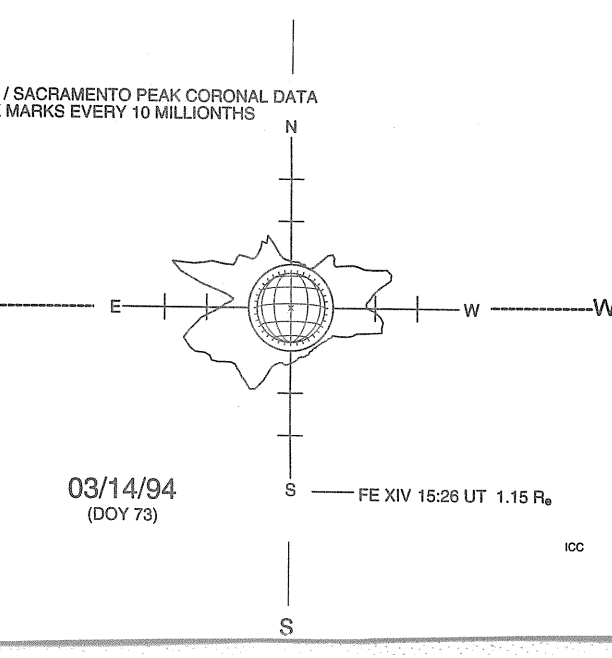
1558 UT

BOULDER SUNSPOT



1550 UT
1558 UT BOUL Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



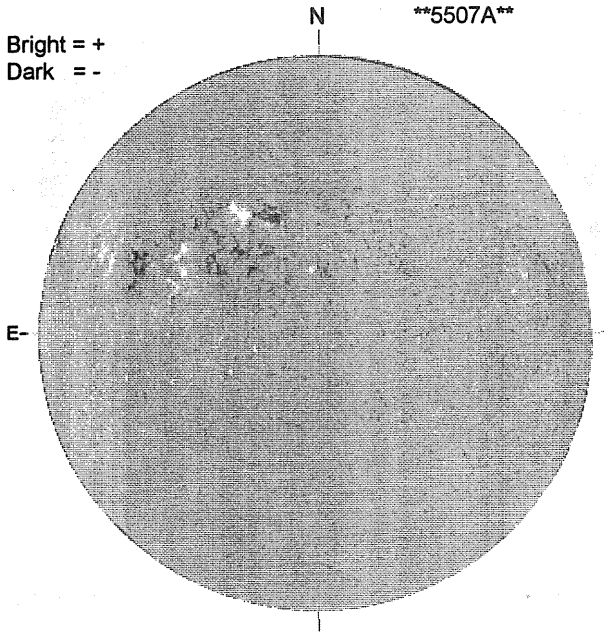
03/14/94
(DOY 73)

FE XIV 15:26 UT 1.15 R_e

ICC

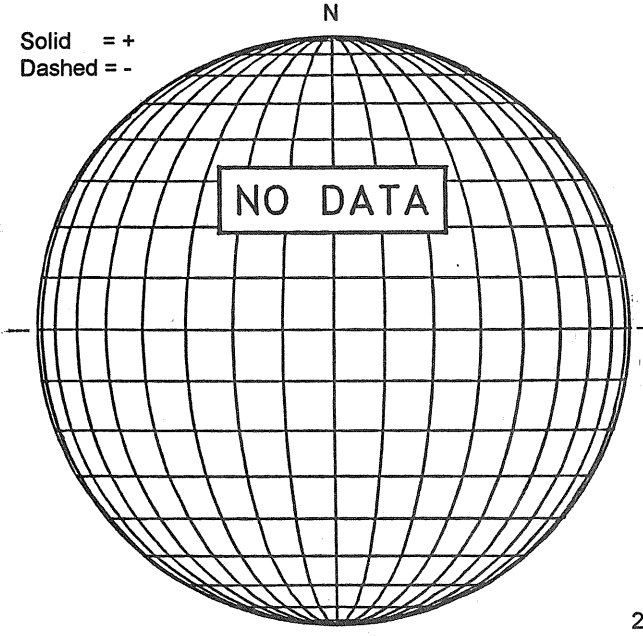
MARCH 15, 1994 (P=-24.41, Bo =-7.17, Lo = 245.21)

KITT PEAK MAGNETOGRAM

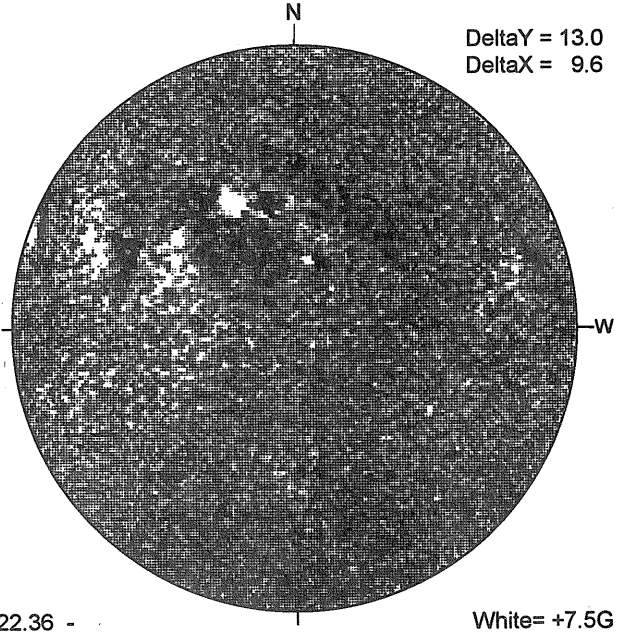


1510 UT

STANFORD MAGNETOGRAM



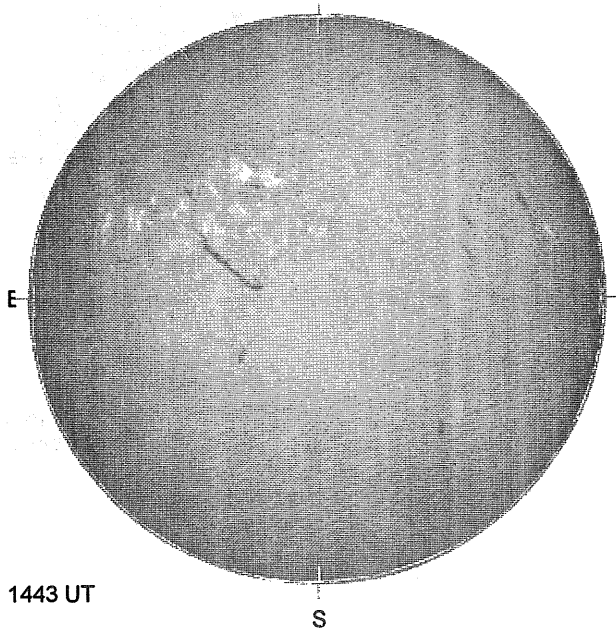
MT. WILSON MAGNETOGRAM



22.36 -
23.32 UT

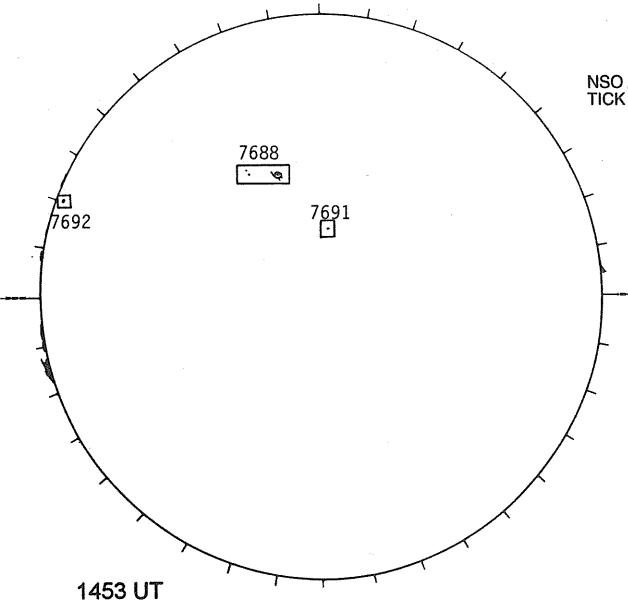
White= +7.5G
Black = -7.5G

BOULDER H-ALPHA



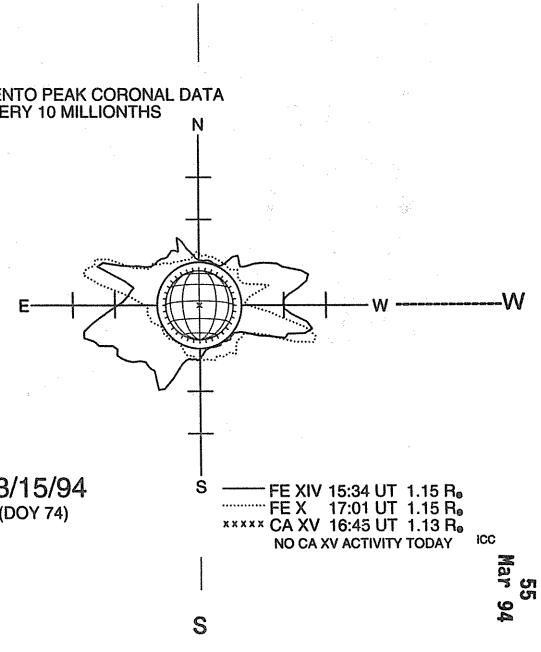
1443 UT

BOULDER SUNSPOT



1453 UT
1443 UT BOUL Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/15/94
(DOY 74)

FE XIV 15:34 UT 1.15 $R_\odot$
FE X 17:01 UT 1.15 $R_\odot$
CA XV 16:45 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

ICC

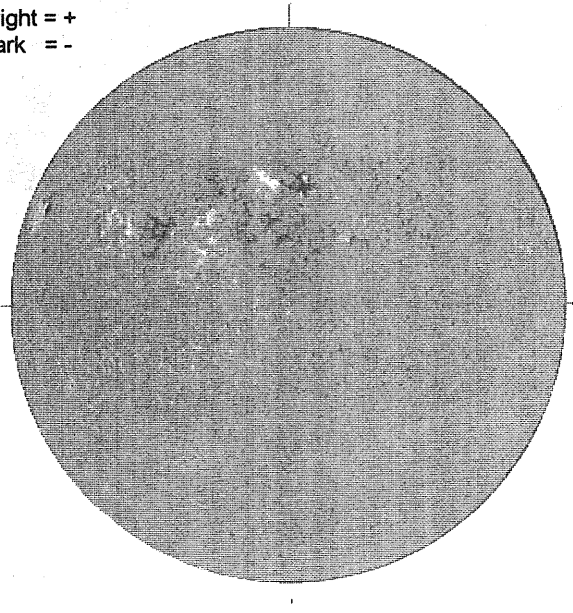
55
Mar 94

MARCH 16, 1994 (P=-24.57, Bo =-7.15, Lo = 232.03)

KITT PEAK MAGNETOGRAM

N **5507A**

Bright = +
Dark = -



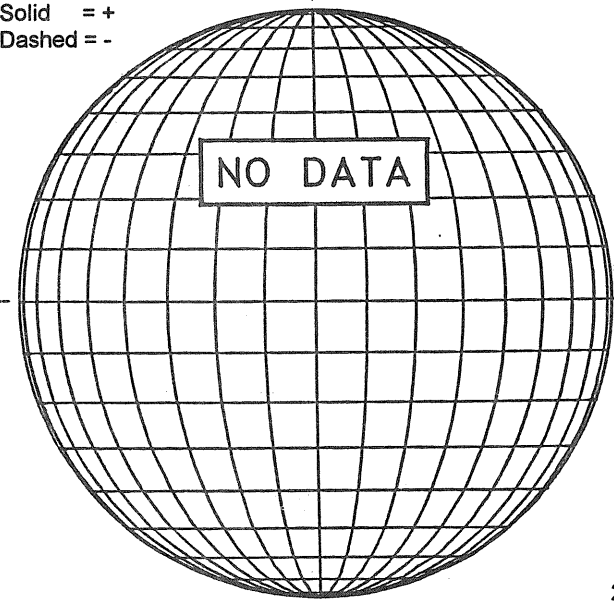
E

1511 UT

STANFORD MAGNETOGRAM

N

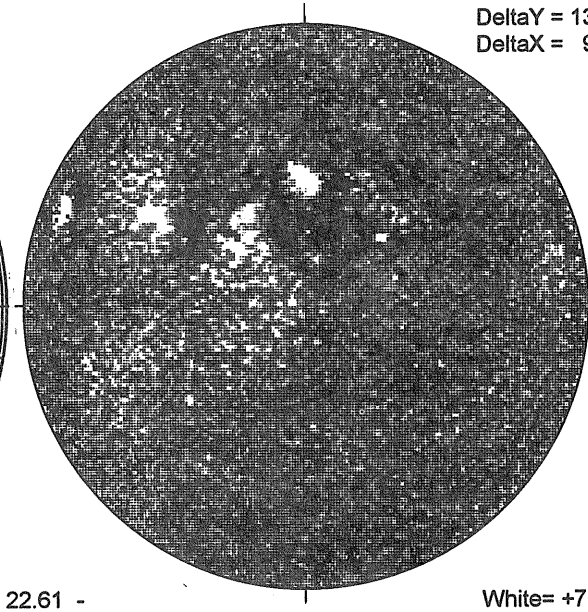
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

DeltaY = 13.1
DeltaX = 9.6

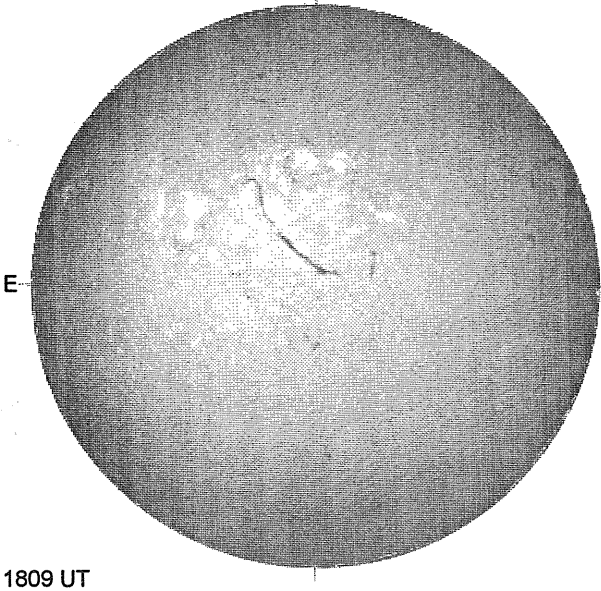


W

22.61 -
23.57 UT

White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA

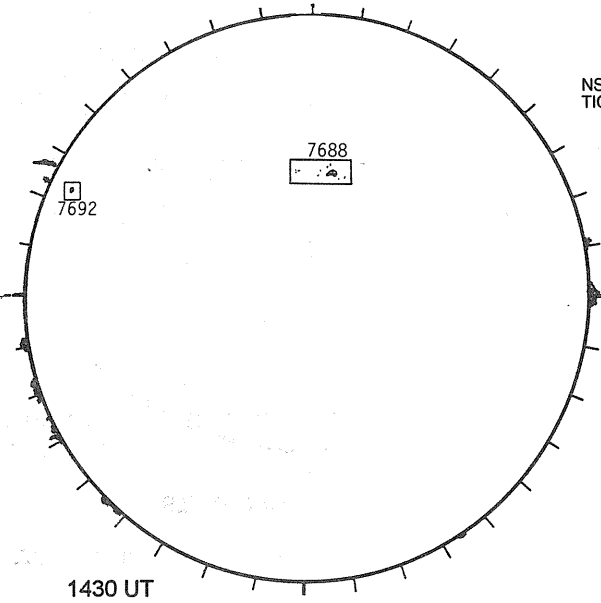


E

1809 UT

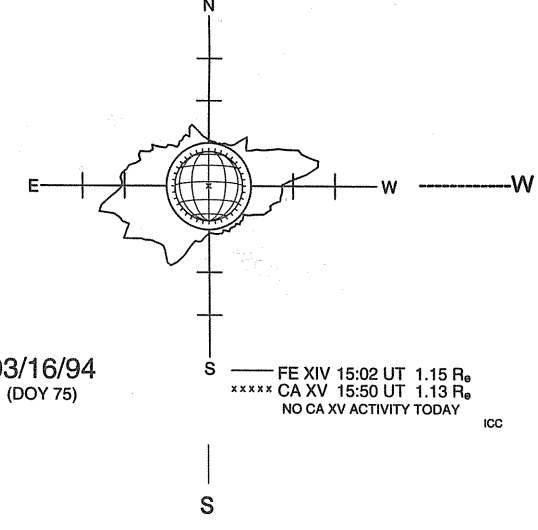
S

RAMEY SUNSPOT



1430 UT
0717 UT VALA Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



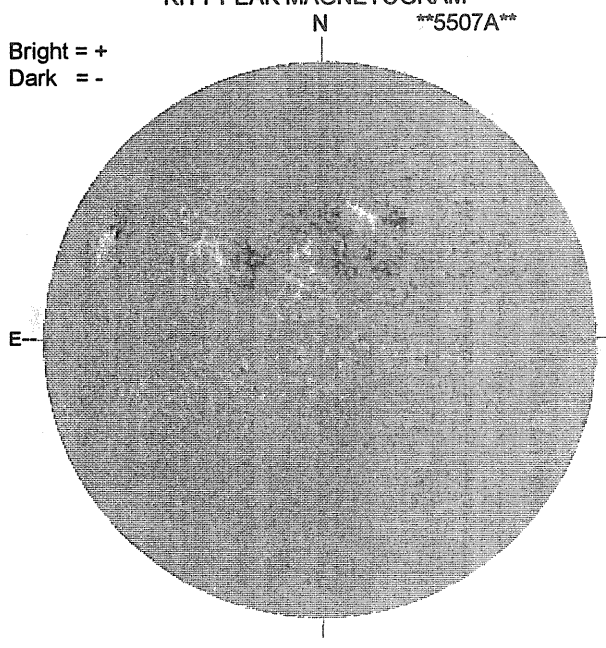
03/16/94
(DOY 75)

FE XIV 15:02 UT 1.15 $R_\odot$
CA XV 15:50 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

ICC

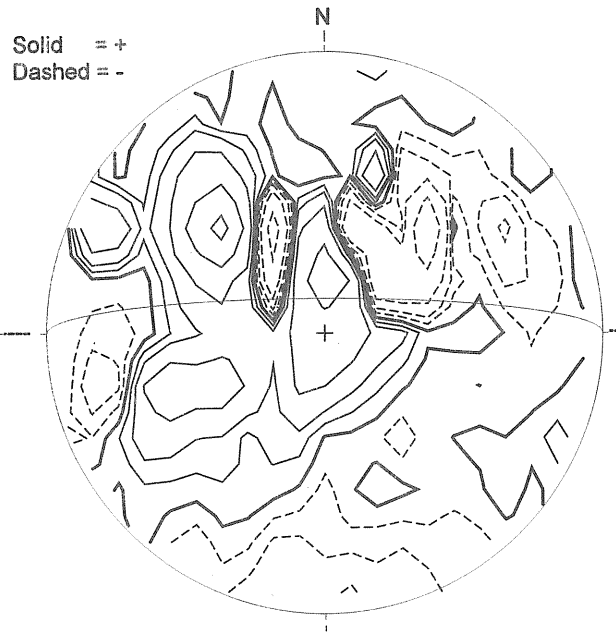
MARCH 17, 1994 (P=-24.72, Bo =-7.13, Lo = 218.85)

KITT PEAK MAGNETOGRAM



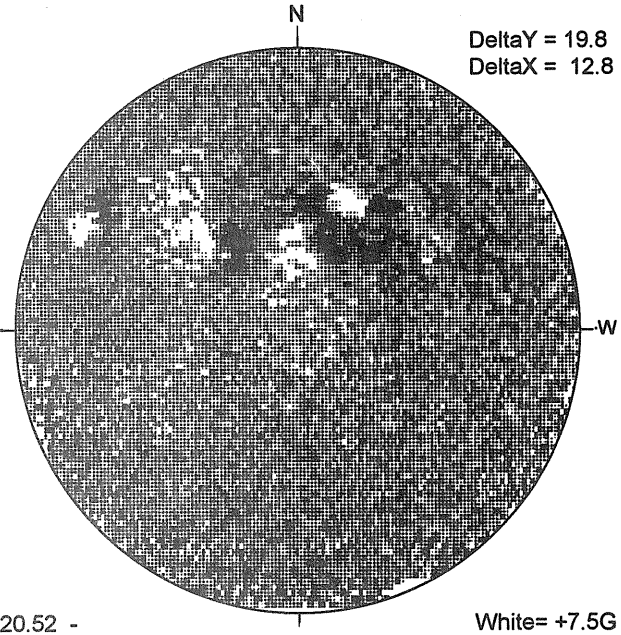
1442 UT

STANFORD MAGNETOGRAM



2140 UT

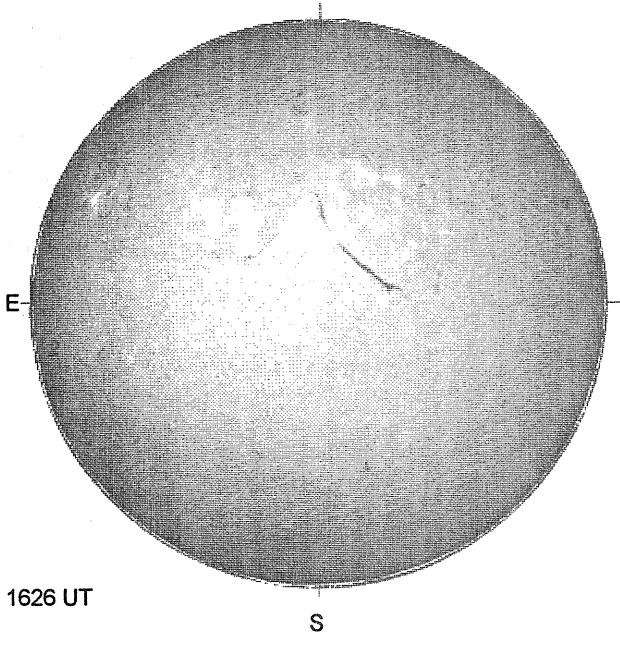
MT. WILSON MAGNETOGRAM



20.52 -
20.95 UT

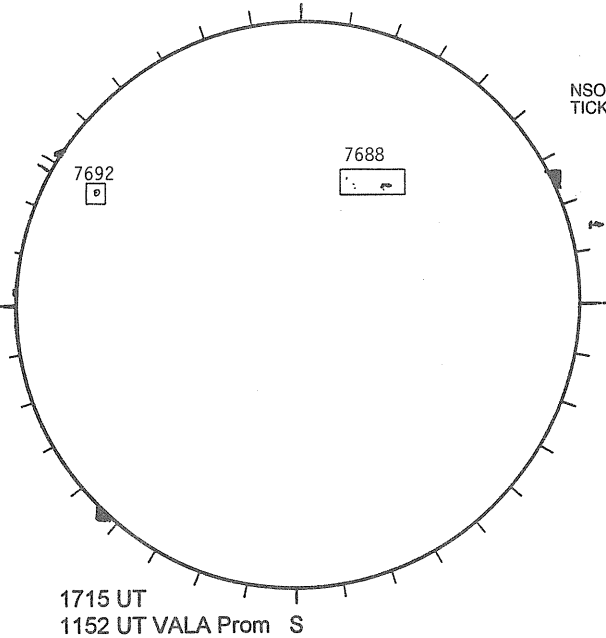
White= +7.5G
Black = -7.5G

----- SACRAMENTO PEAK H-ALPHA



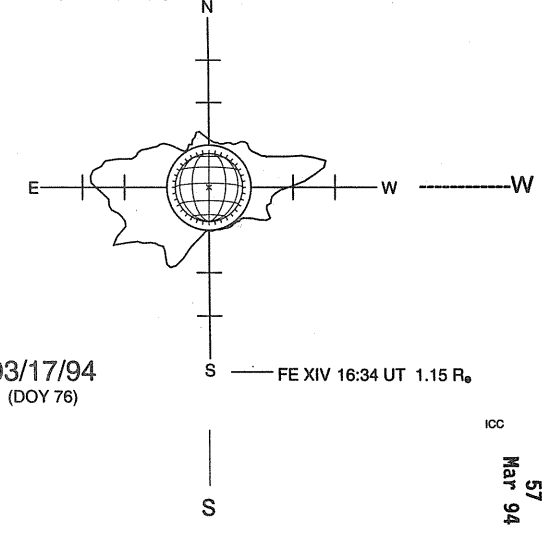
1626 UT

BOULDER SUNSPOT



1715 UT
1152 UT VALA Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/17/94
(DOY 76)

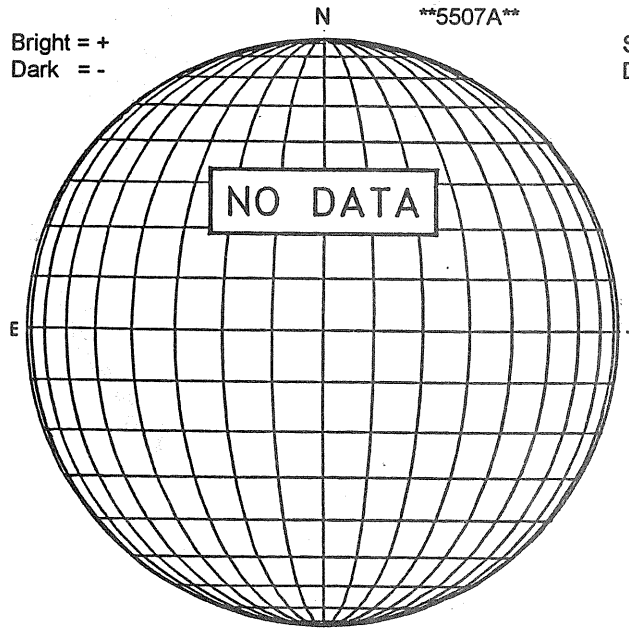
FE XIV 16:34 UT 1.15 $R_\odot$

ICC

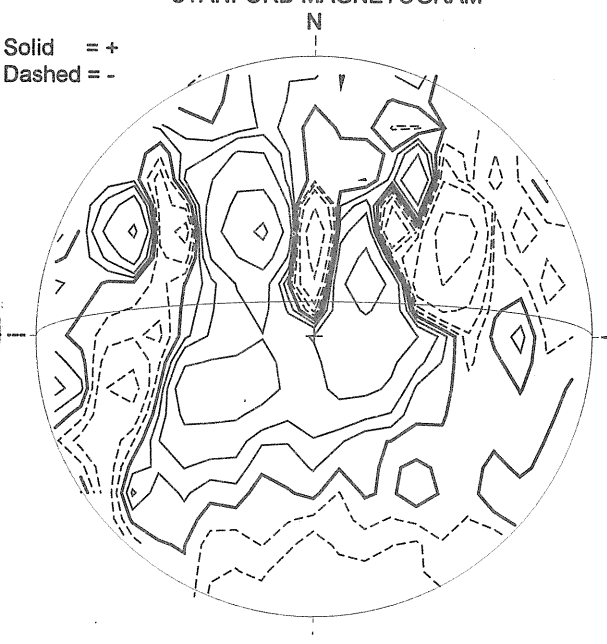
57
Mar 94

MARCH 18, 1994 (P=-24.86, Bo =-7.11, Lo = 205.67)

KITT PEAK MAGNETOGRAM

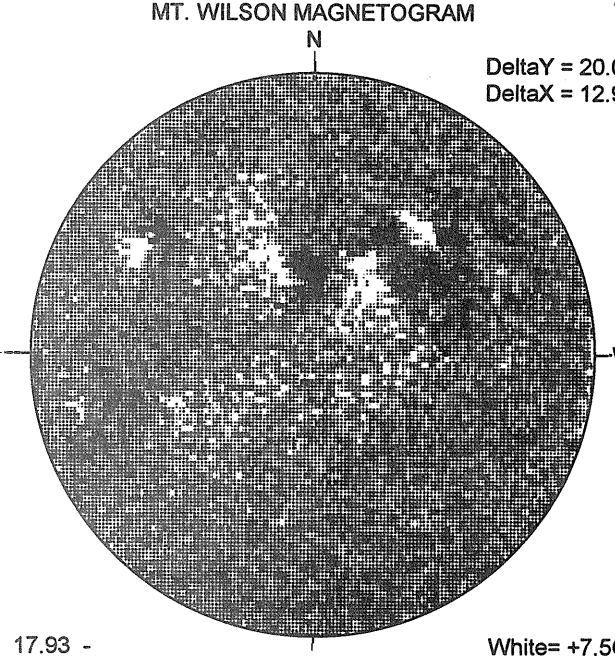


STANFORD MAGNETOGRAM



1734 UT

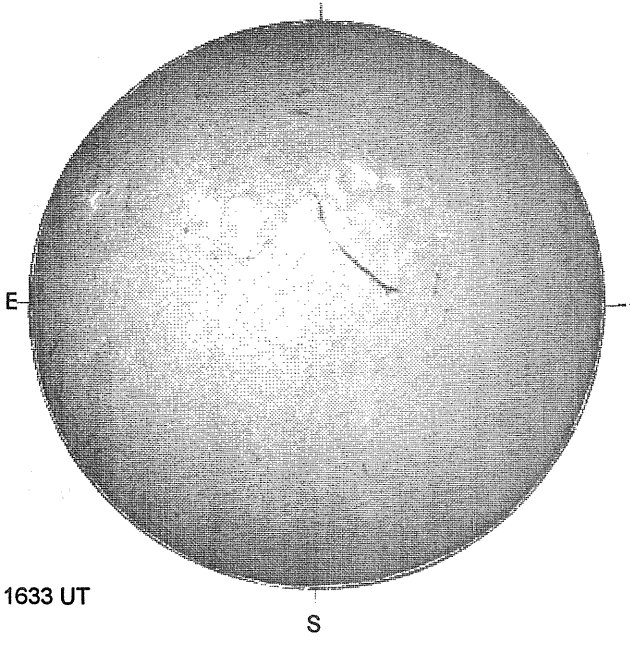
MT. WILSON MAGNETOGRAM



17.93 -
18.35 UT

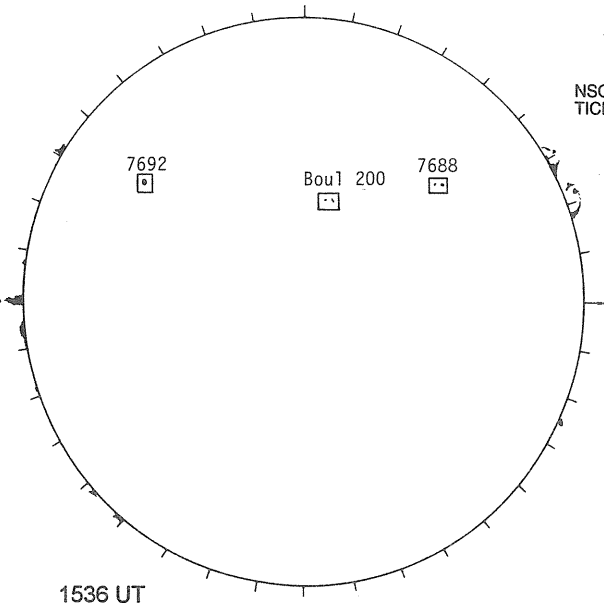
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



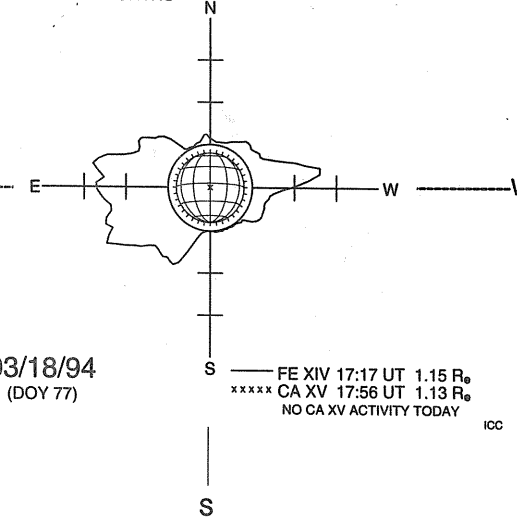
1633 UT

BOULDER SUNSPOT



1536 UT
1544 UT BOUL Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/18/94
(DOY 77)

FE XIV 17:17 UT 1.15 $R_\odot$
xxxxx CA XV 17:56 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

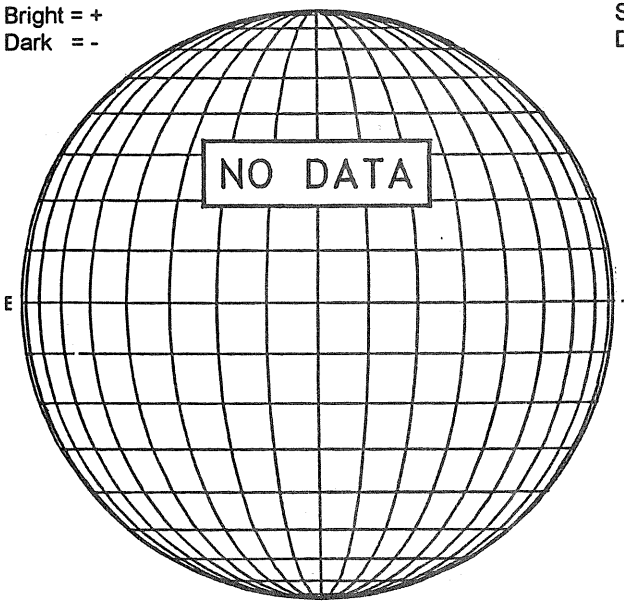
ICC

MARCH 19, 1994 (P=-25.00, Bo =-7.08, Lo = 192.49)

KITT PEAK MAGNETOGRAM

N **5507A**

Bright = +
Dark = -



STANFORD MAGNETOGRAM

N

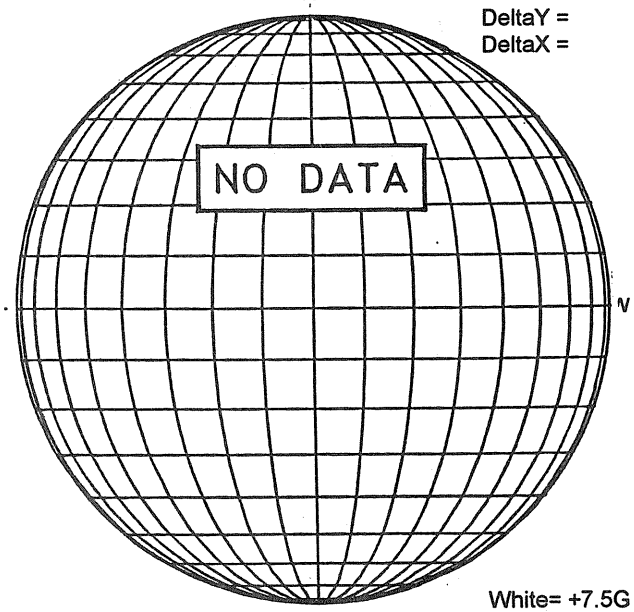
Solid = +
Dashed = -

1728 UT

MT. WILSON MAGNETOGRAM

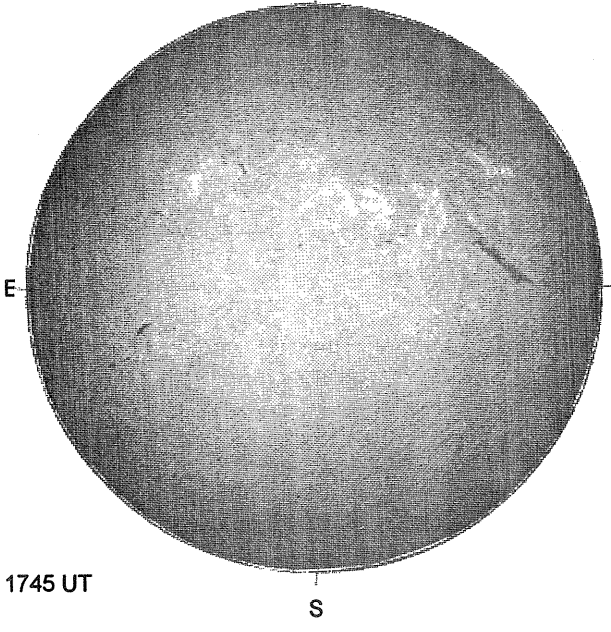
N

DeltaY =
DeltaX =



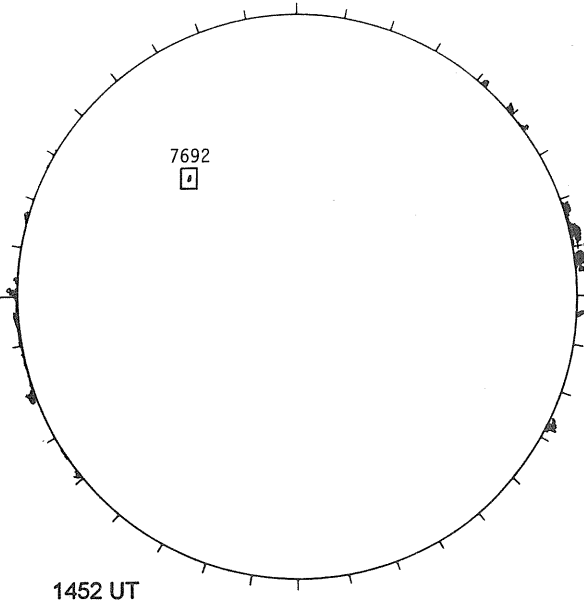
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



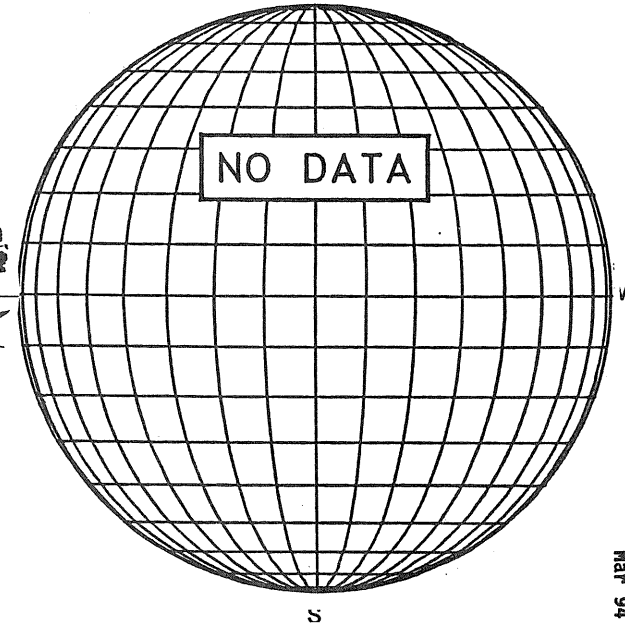
1745 UT

BOULDER SUNSPOT



1452 UT
1449 UT BOUL Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)



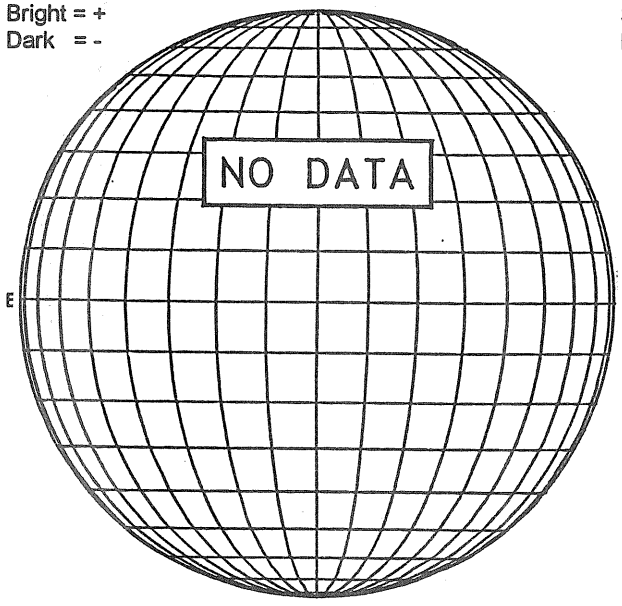
59
Mar 94

MARCH 20, 1994 (P=-25.13, Bo =-7.05, Lo = 179.30)

KITT PEAK MAGNETOGRAM

N **5507A**

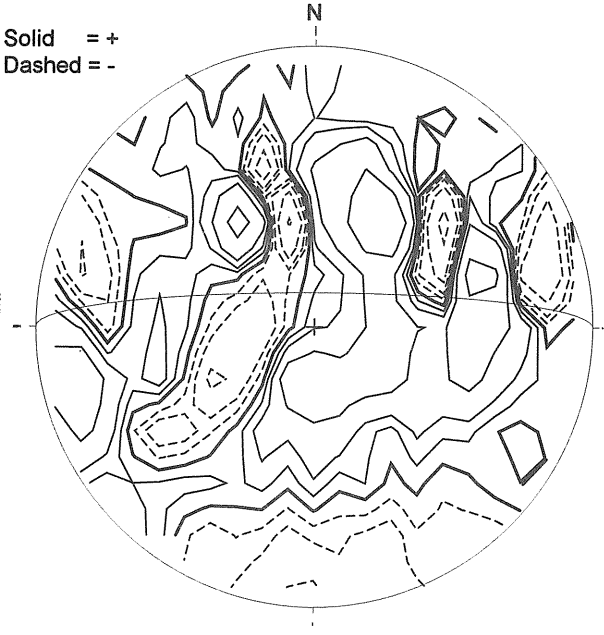
Bright = +
Dark = -



STANFORD MAGNETOGRAM

N

Solid = +
Dashed = -

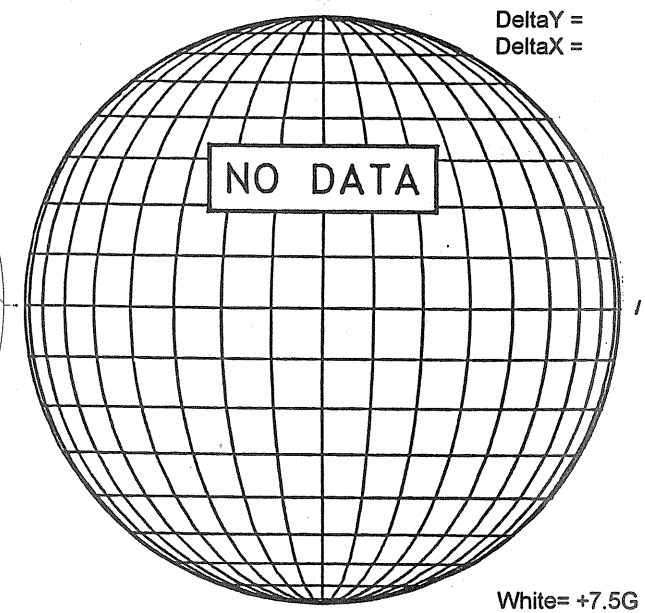


1729 UT

MT. WILSON MAGNETOGRAM

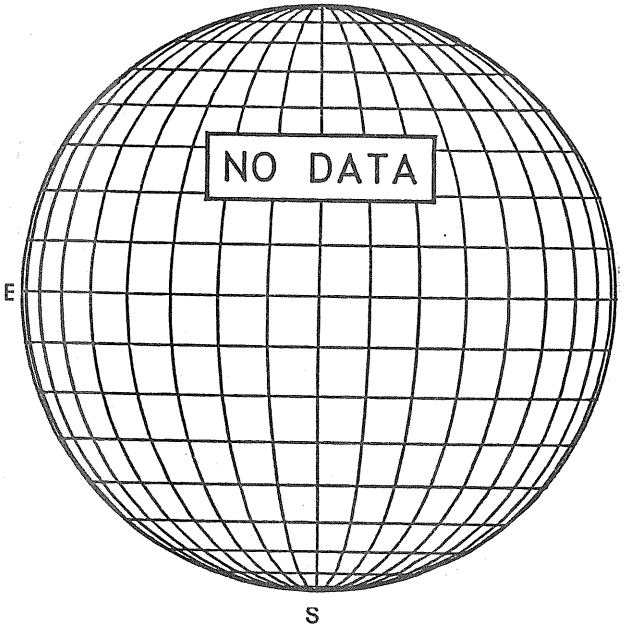
N

DeltaY =
DeltaX =

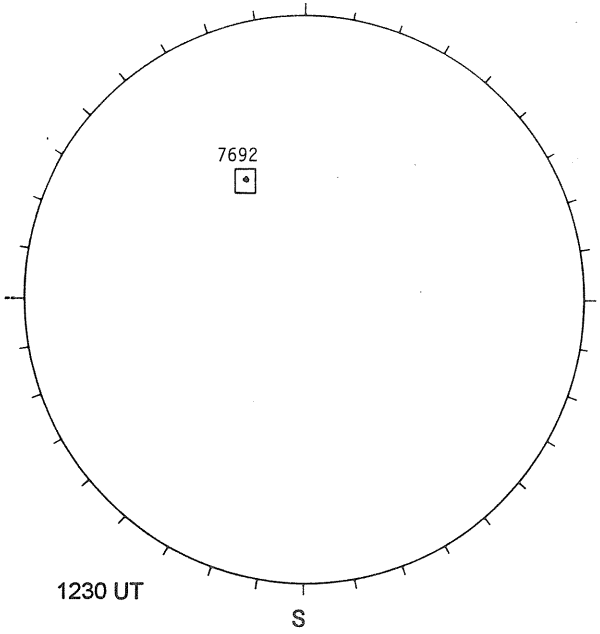


White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA

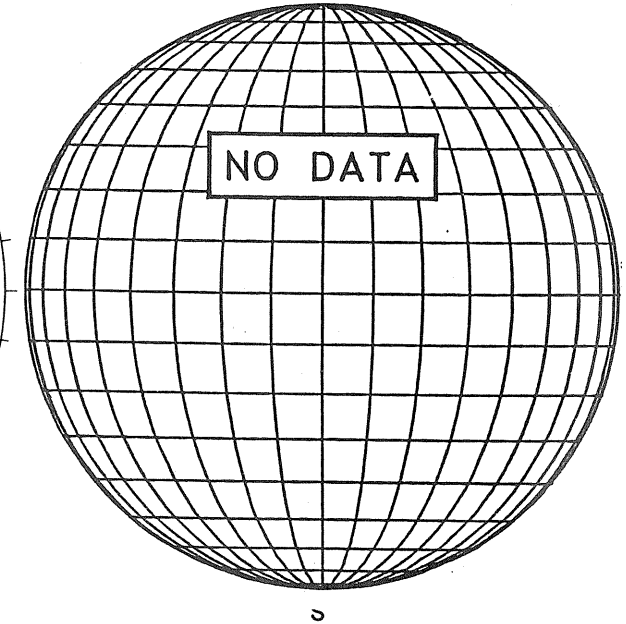


RAMEY SUNSPOT



1230 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

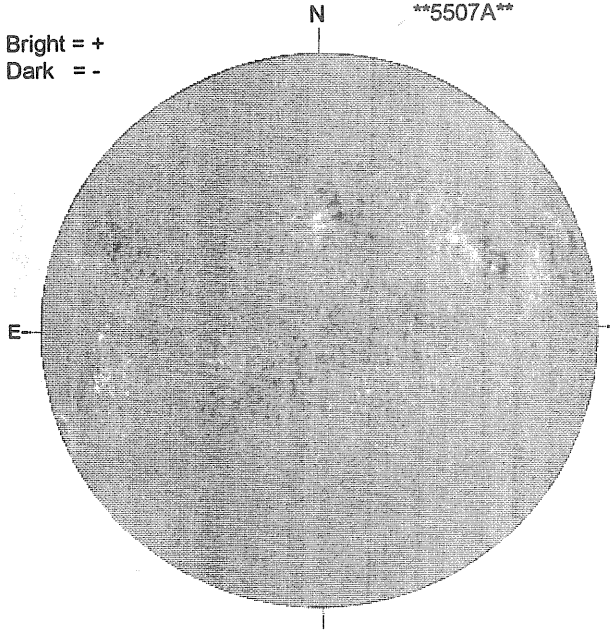


MARCH 21, 1994 (P=-25.26, Bo =-7.02, Lo = 166.12)

KITT PEAK MAGNETOGRAM

5507A

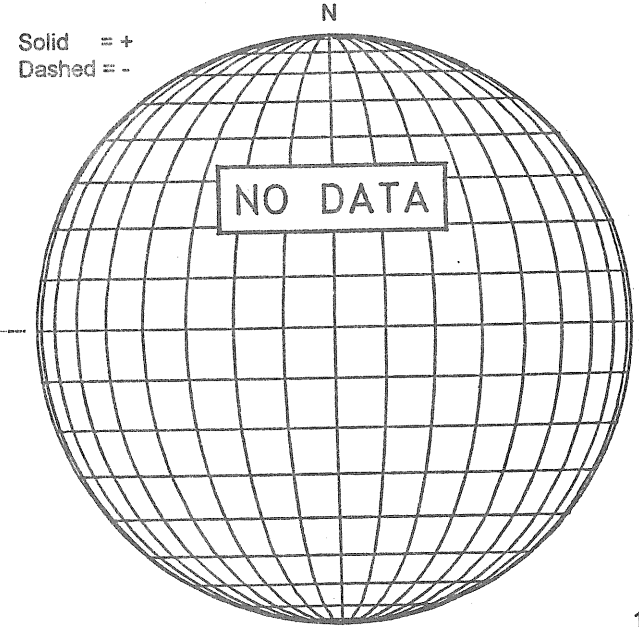
Bright = +
Dark = -



1818 UT

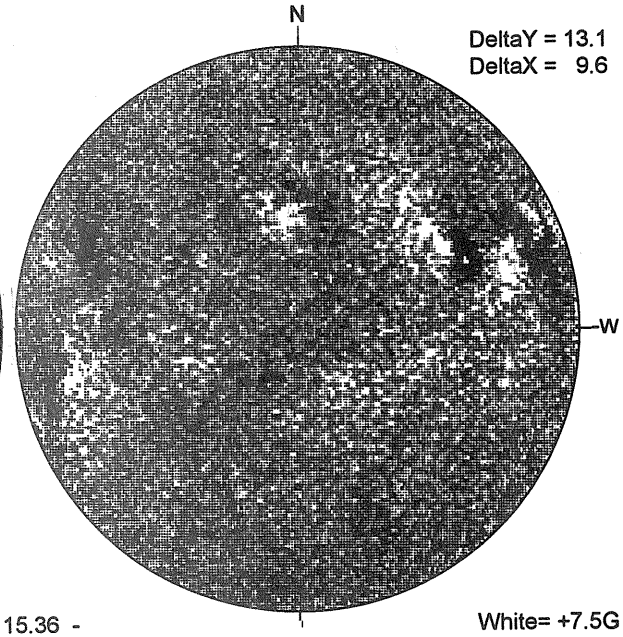
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

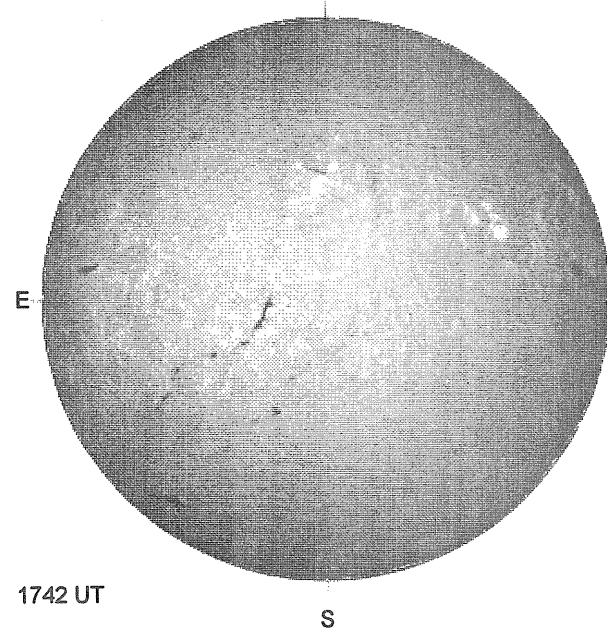
DeltaY = 13.1
DeltaX = 9.6



15.36 -
16.31 UT

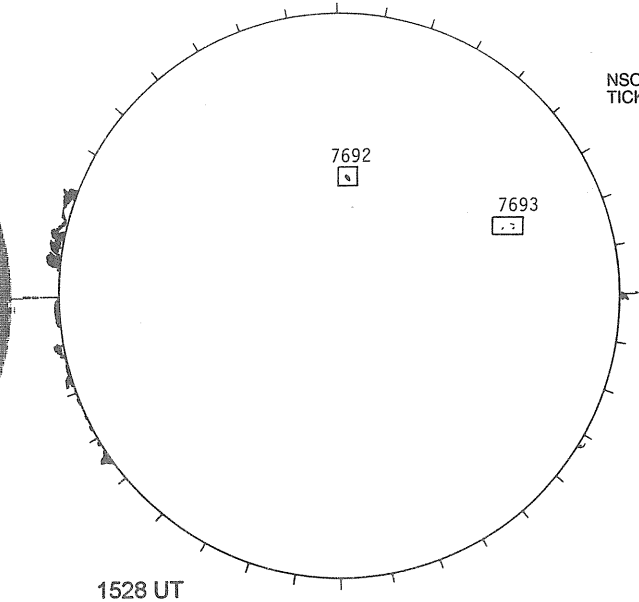
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



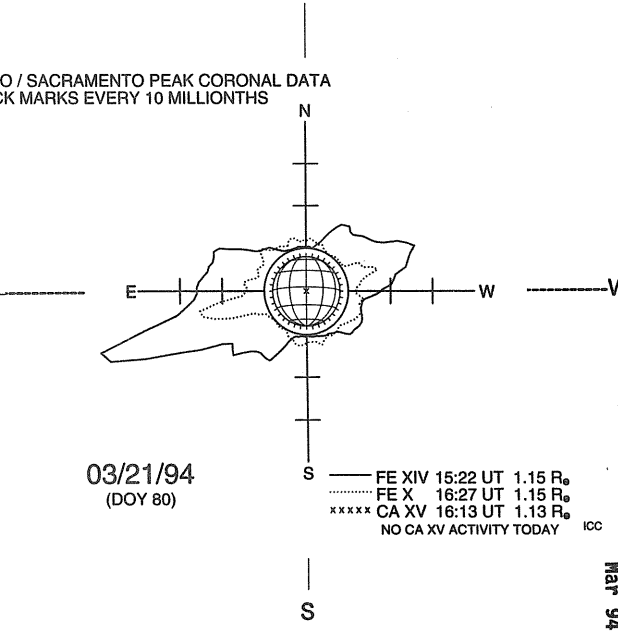
1742 UT

BOULDER SUNSPOT



1528 UT
1553 UT BOUL Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/21/94
(DOY 80)

FE XIV 15:22 UT 1.15 R$_\odot$
FE X 16:27 UT 1.15 R$_\odot$
CA XV 16:13 UT 1.13 R$_\odot$
NO CA XV ACTIVITY TODAY

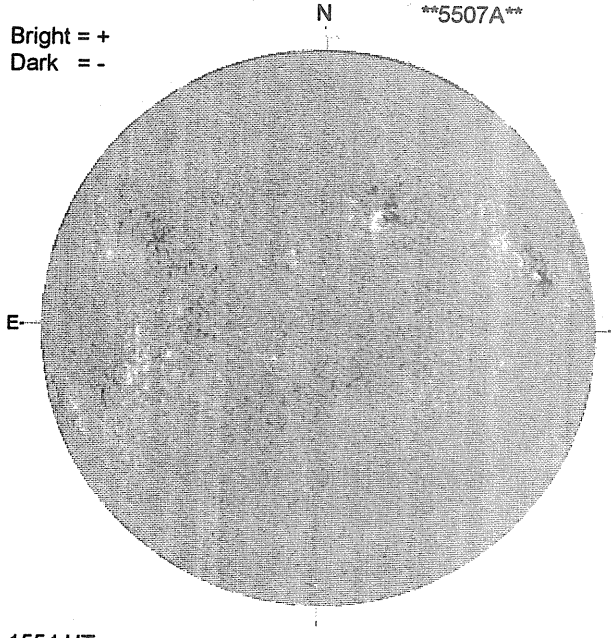
ICC

61
Mar 94

MARCH 22, 1994 (P=-25.38, Bo =-6.99, Lo = 152.93)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -



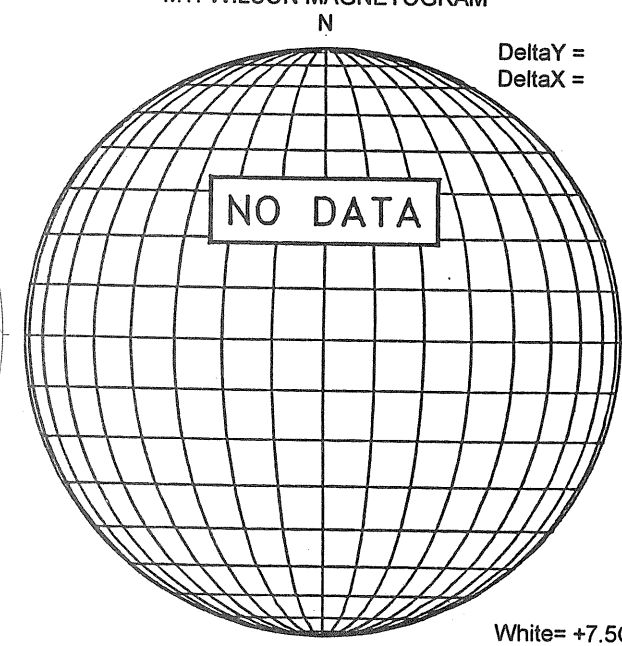
1554 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

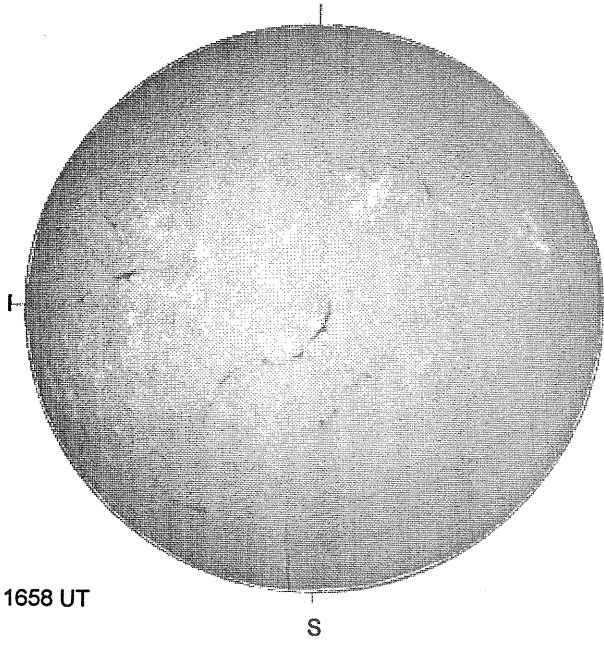
2331 UT

MT. WILSON MAGNETOGRAM



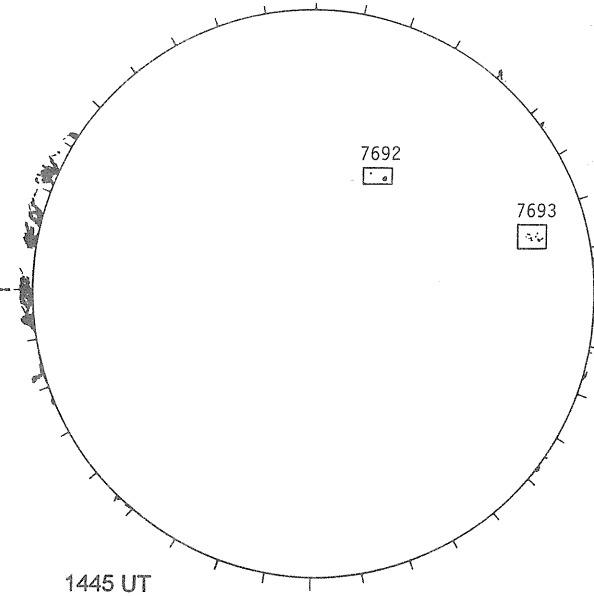
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



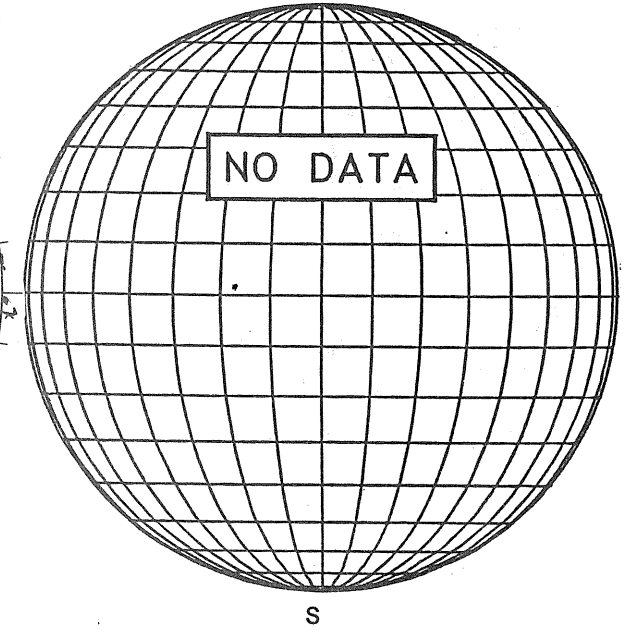
1658 UT

BOULDER SUNSPOT



1445 UT
1545 UT BOUL Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)----



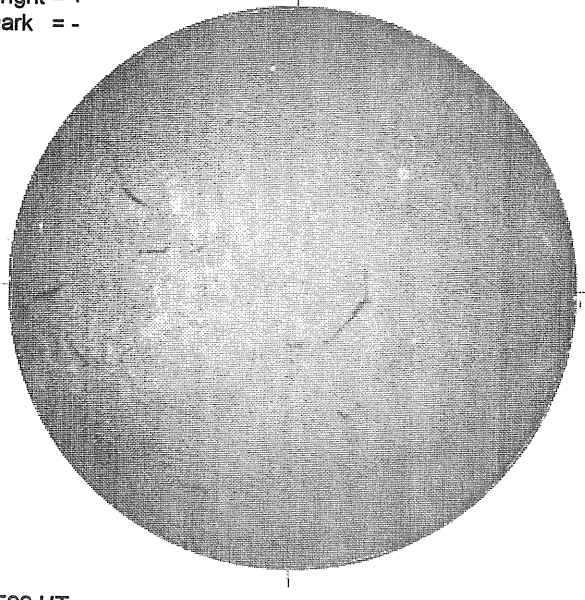
MARCH 23, 1994 (P=-25.49, Bo =-6.95, Lo = 139.75)

KITT PEAK MAGNETOGRAM

N

5507A

Bright = +
Dark = -



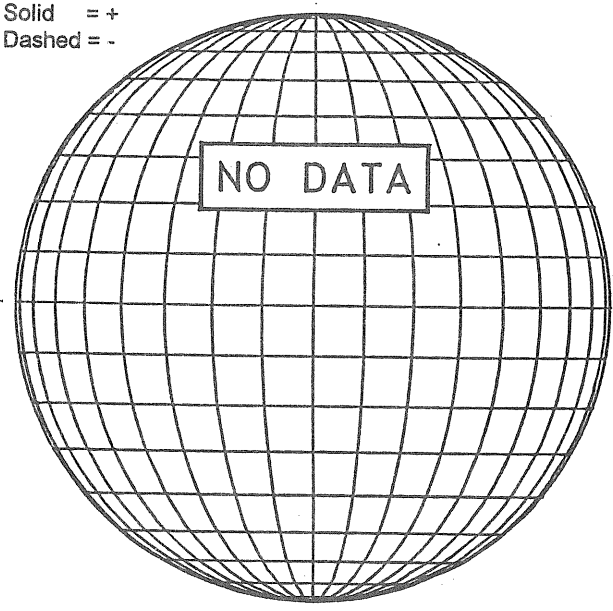
E

1529 UT

STANFORD MAGNETOGRAM

N

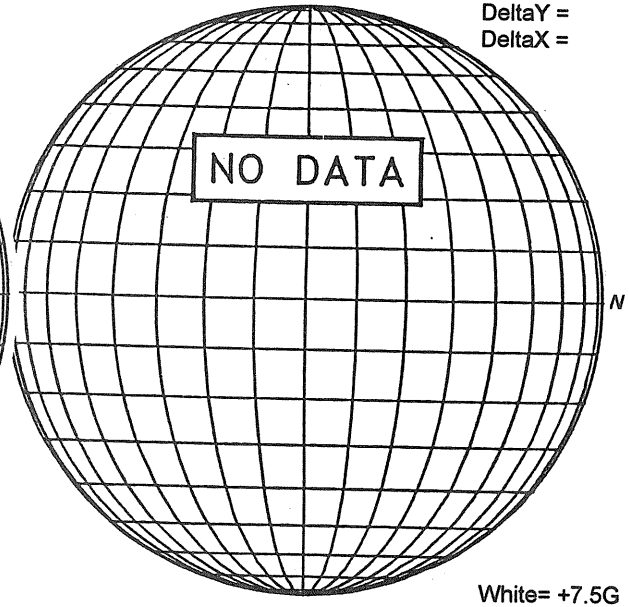
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

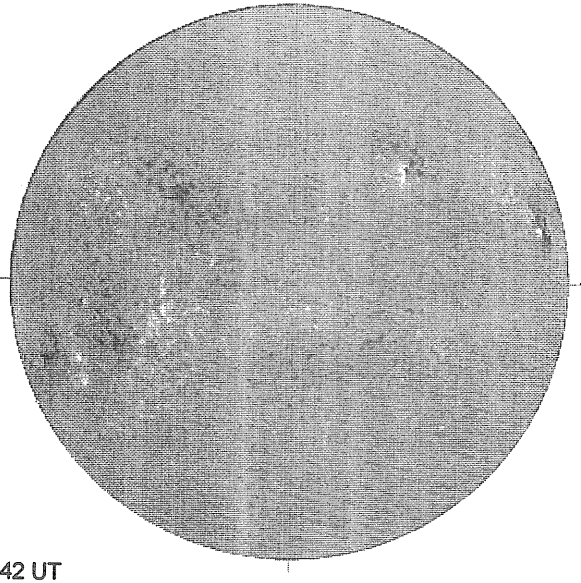
DeltaY =
DeltaX =



N

White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA

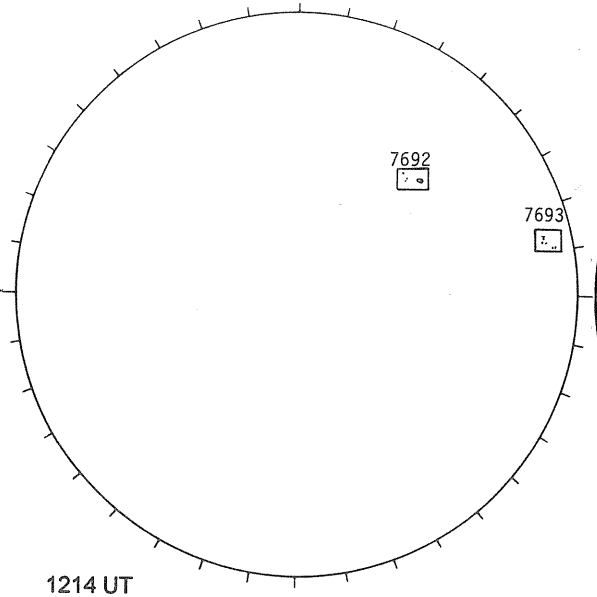


E

1642 UT

S

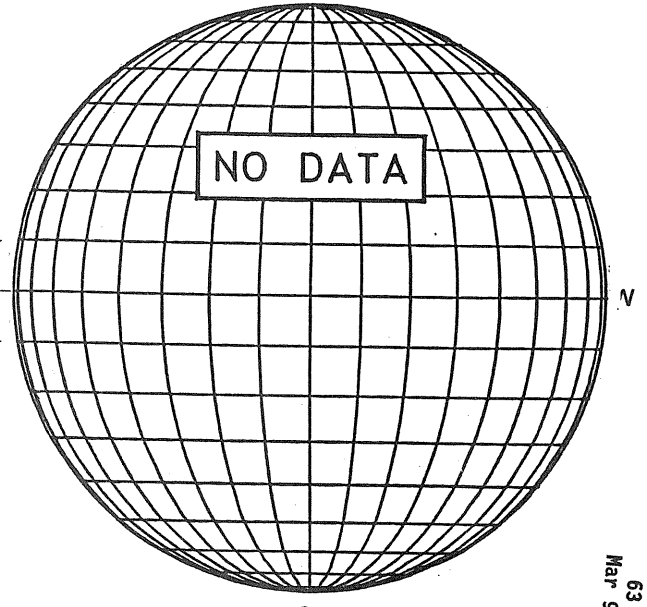
RAMEY SUNSPOT



1214 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)



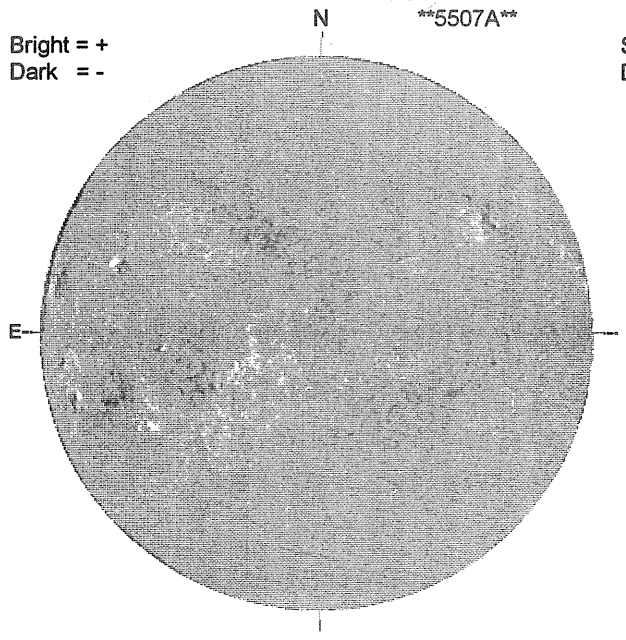
N

S

63
Mar 94

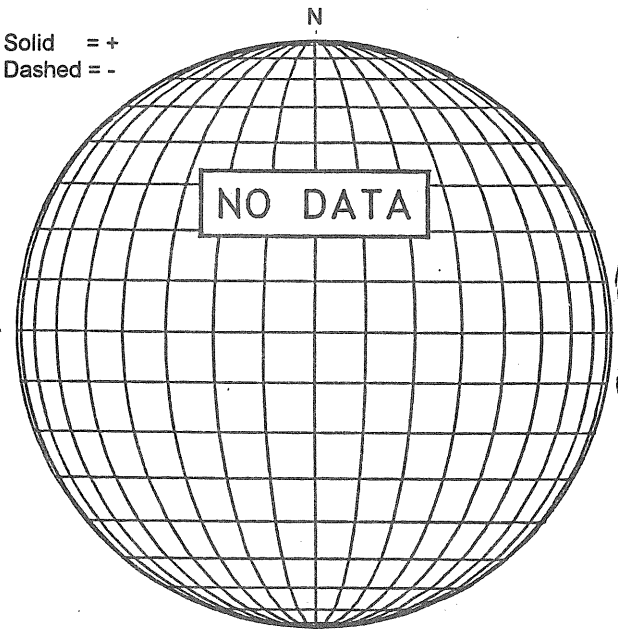
MARCH 24, 1994 (P=-25.59, Bo =-6.92, Lo = 126.56)

KITT PEAK MAGNETOGRAM

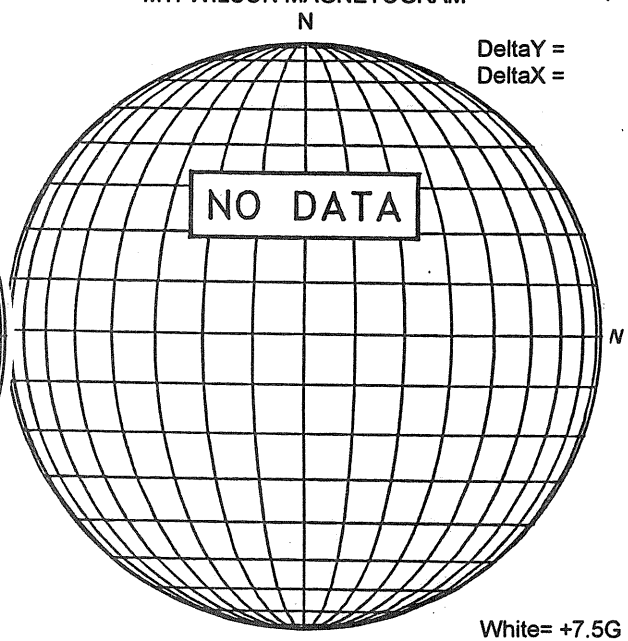


1425 UT

STANFORD MAGNETOGRAM

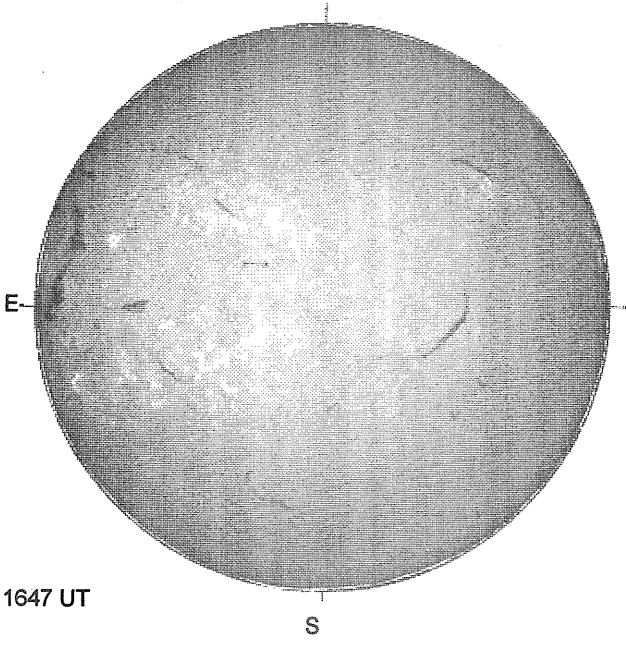


MT. WILSON MAGNETOGRAM



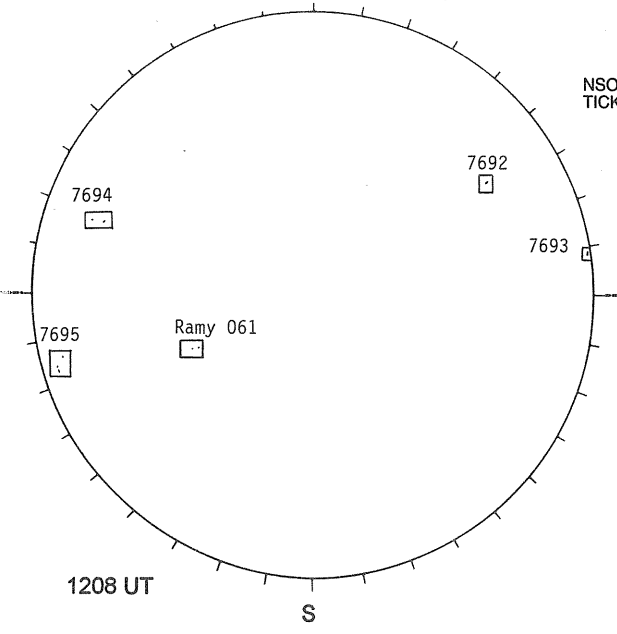
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



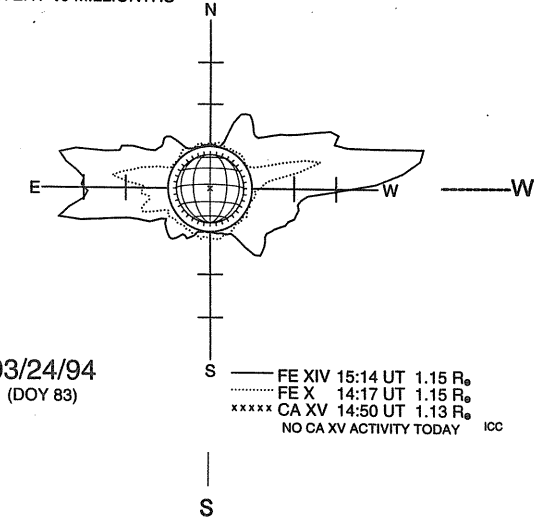
1647 UT

RAMEY SUNSPOT



1208 UT

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/24/94
(DOY 83)

FE XIV 15:14 UT 1.15 $R_\odot$
FE X 14:17 UT 1.15 $R_\odot$
xxxxx CA XV 14:50 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

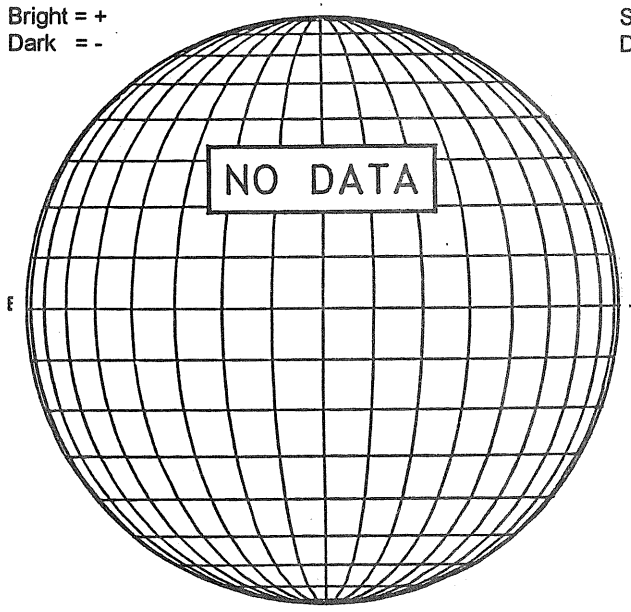
ICC

MARCH 25, 1994 (P=-25.69, Bo =-6.88, Lo = 113.38)

KITT PEAK MAGNETOGRAM

N **5507A**

Bright = +
Dark = -

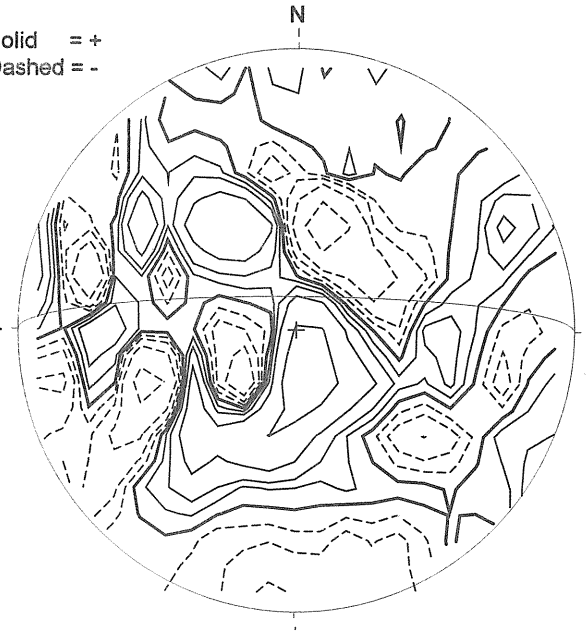


E

STANFORD MAGNETOGRAM

N

Solid = +
Dashed = -

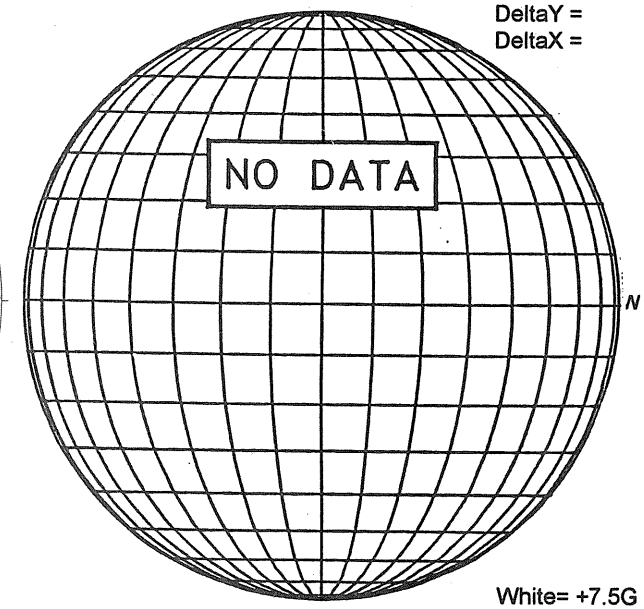


2250 UT

MT. WILSON MAGNETOGRAM

N

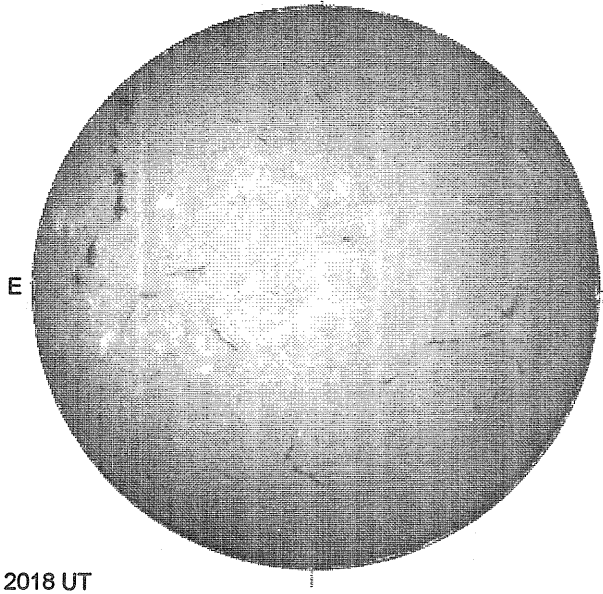
DeltaY =
DeltaX =



W

White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA

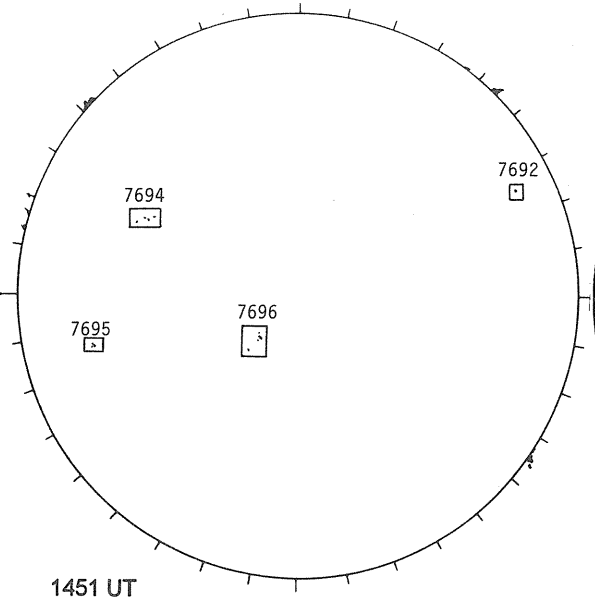


E

2018 UT

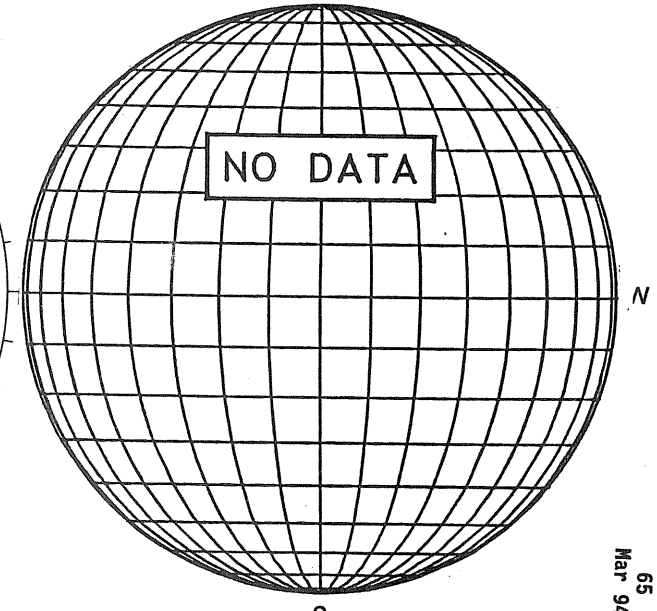
S

BOULDER SUNSPOT



1451 UT
1444 UT BOUL Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)



N

S

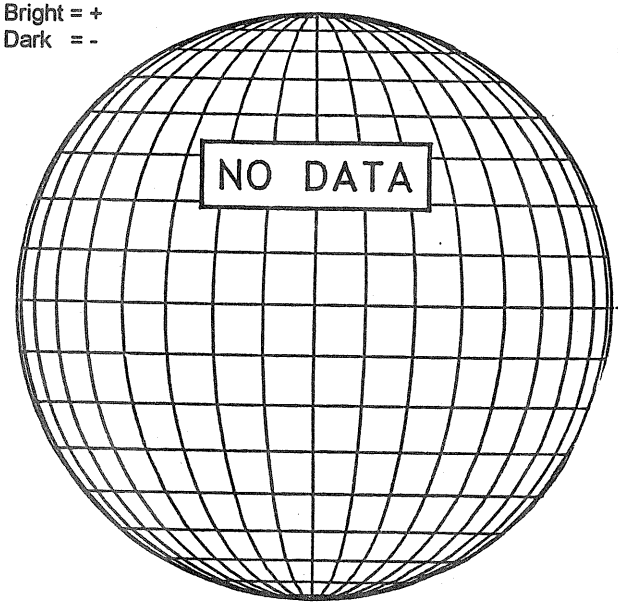
65
Mar 94

MARCH 26, 1994 (P=-25.78, Bo =-6.84, Lo = 100.19)

KITT PEAK MAGNETOGRAM

N **5507A**

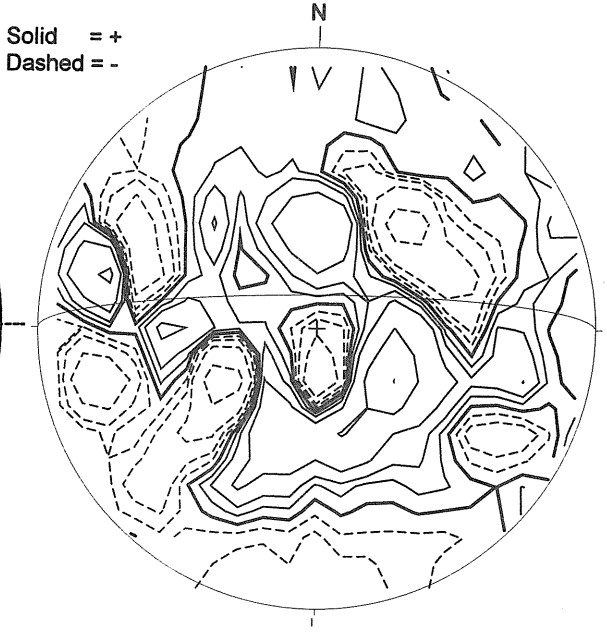
Bright = +
Dark = -



STANFORD MAGNETOGRAM

N

Solid = +
Dashed = -

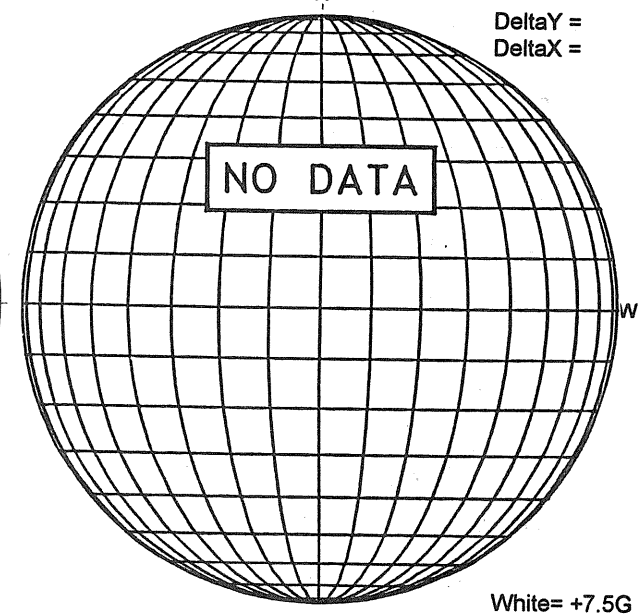


2255 UT

MT. WILSON MAGNETOGRAM

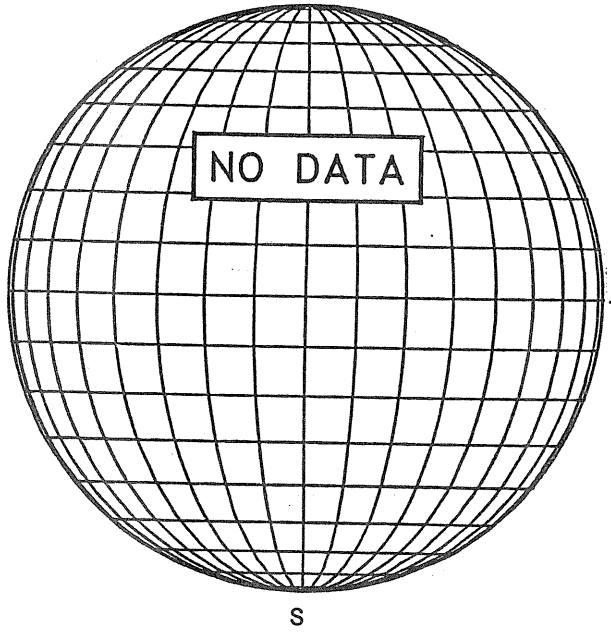
N

DeltaY =
DeltaX =



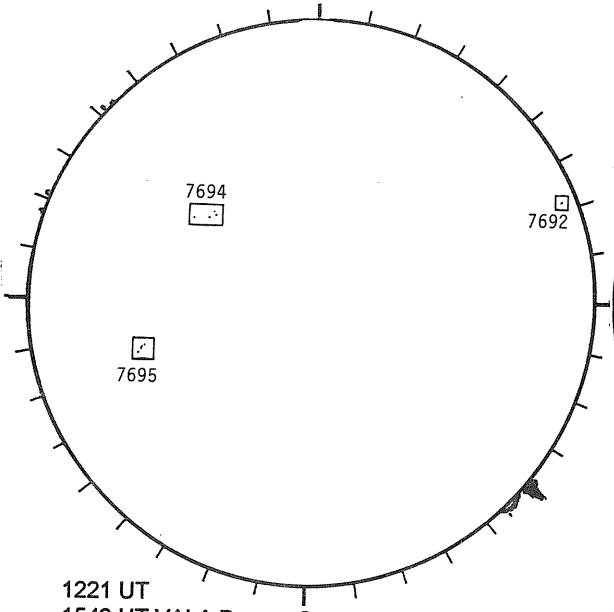
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



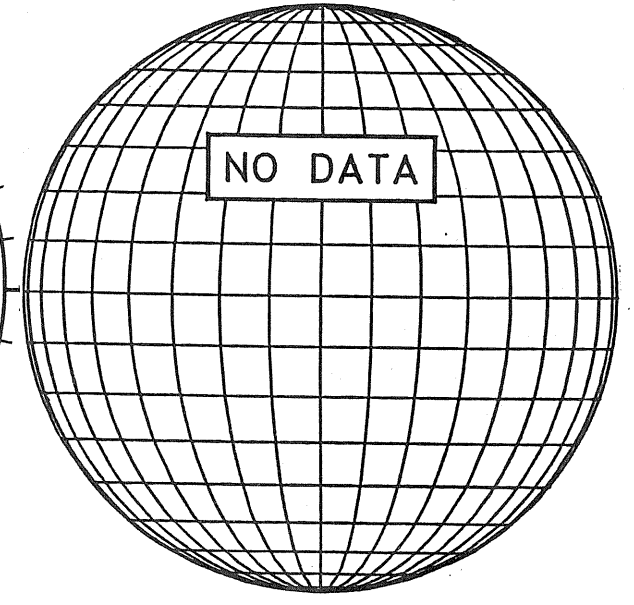
S

RAMEY SUNSPOT



1221 UT
1543 UT VALA Prom S

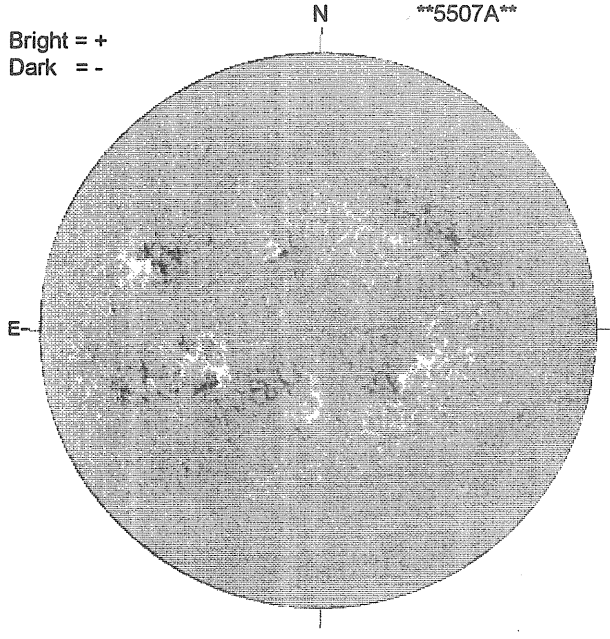
SACRAMENTO PEAK CORONA (1.15 Radii)



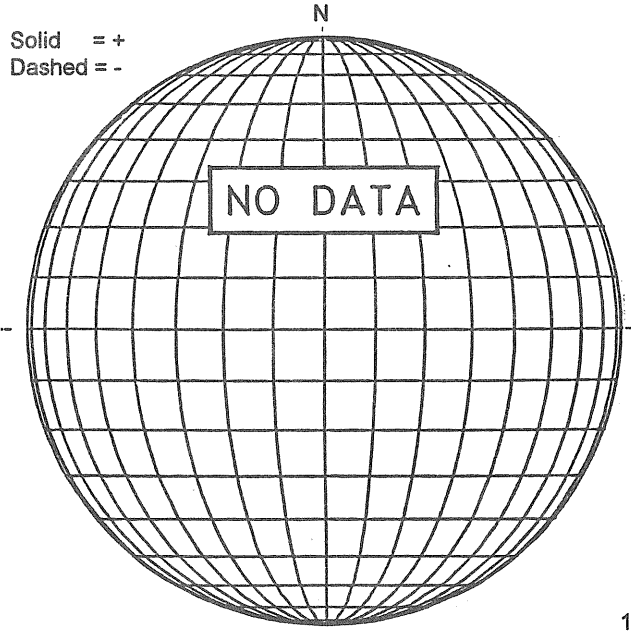
S

MARCH 27, 1994 (P=-25.86, Bo =-6.79, Lo = 87.00)

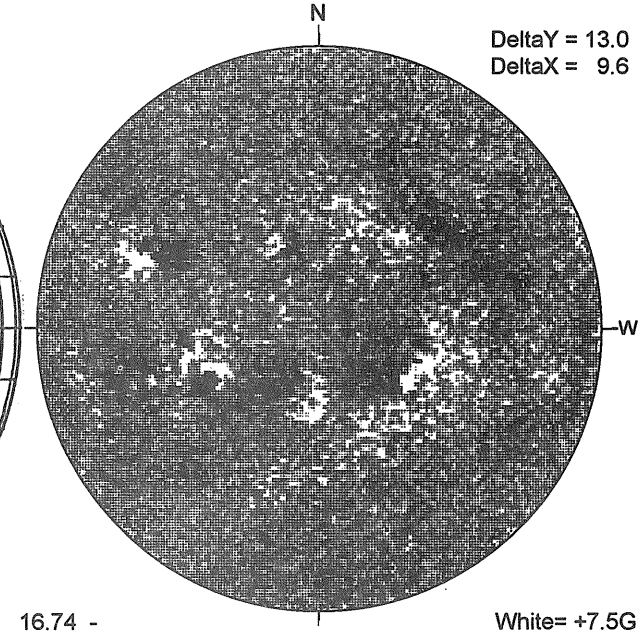
KITT PEAK MAGNETOGRAM



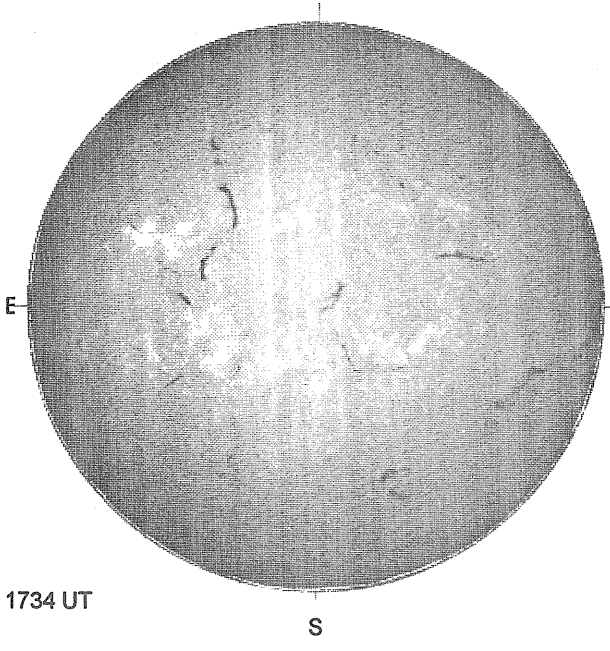
STANFORD MAGNETOGRAM



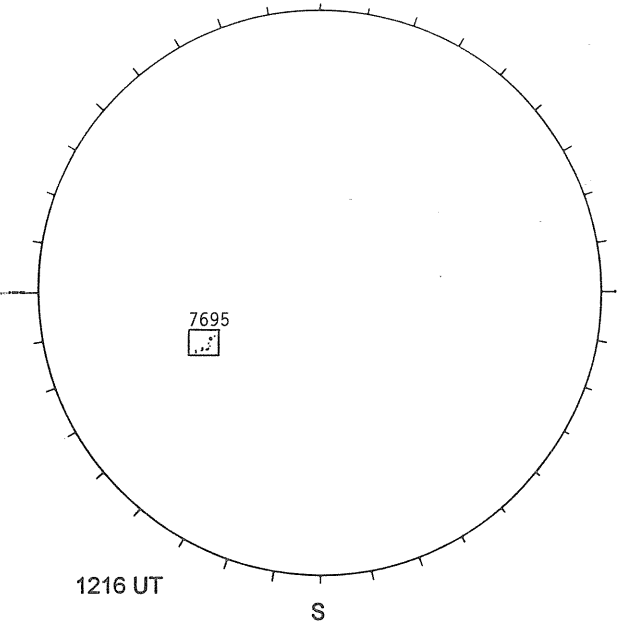
MT. WILSON MAGNETOGRAM



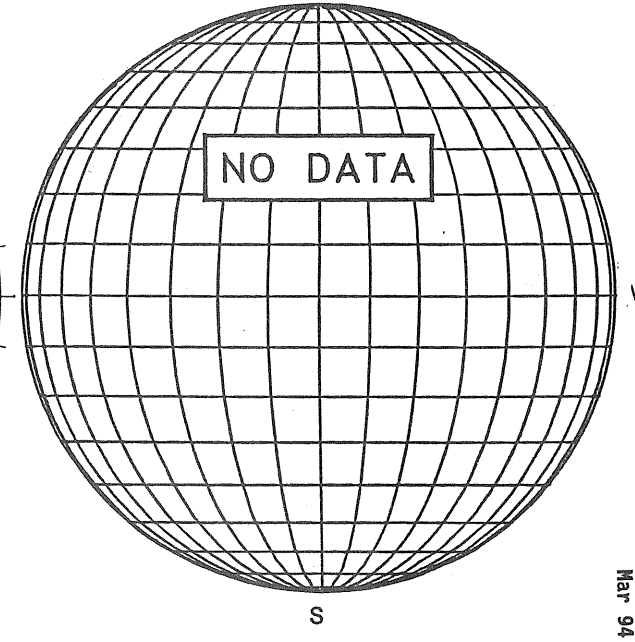
SACRAMENTO PEAK H-ALPHA



RAMEY SUNSPOT



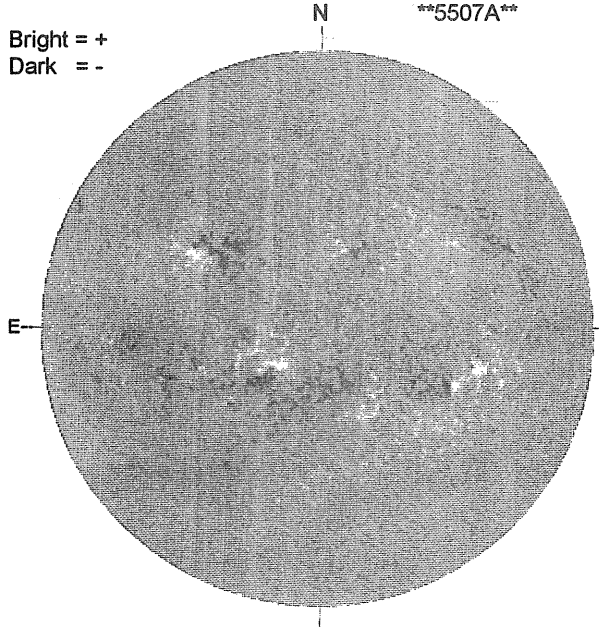
SACRAMENTO PEAK CORONA (1.15 Radii)----



67
Mar 94

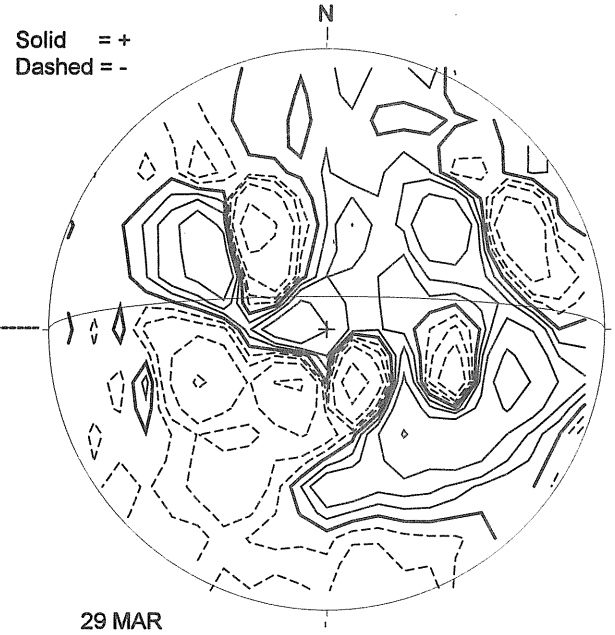
MARCH 28, 1994 (P=-25.94, Bo =-6.75, Lo = 73.81)

KITT PEAK MAGNETOGRAM



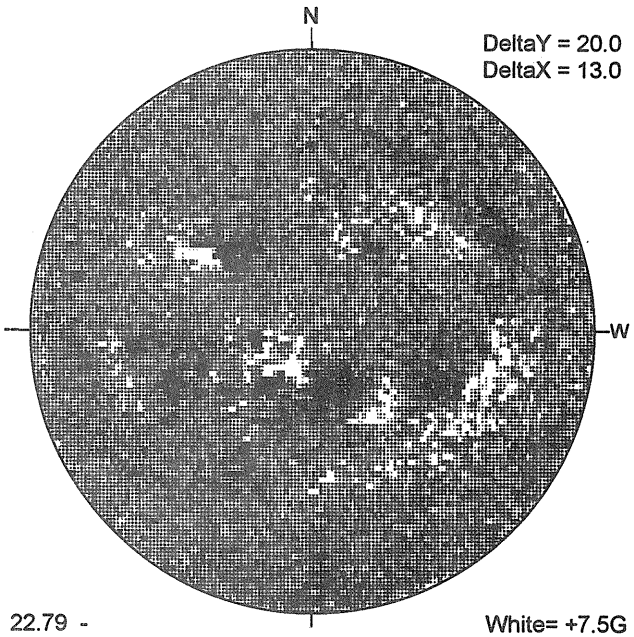
1449 UT

STANFORD MAGNETOGRAM



29 MAR
0020 UT

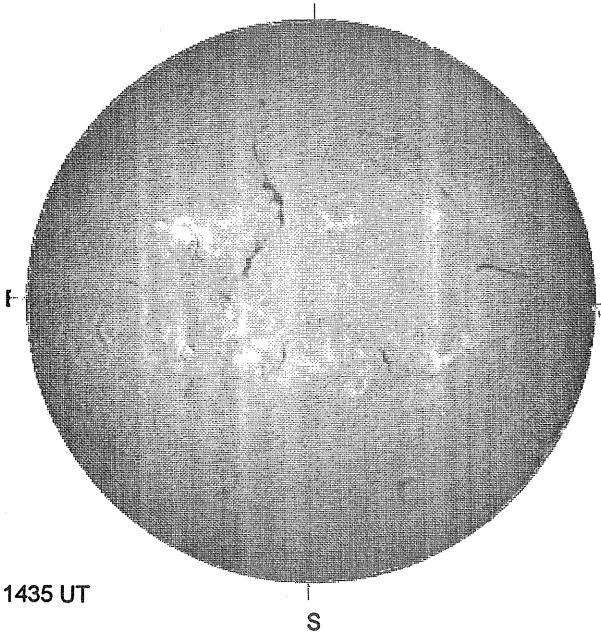
MT. WILSON MAGNETOGRAM



22.79 -
23.21 UT

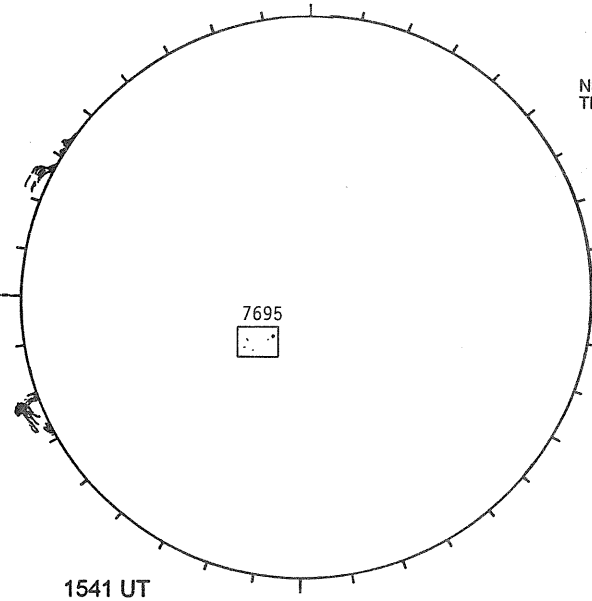
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



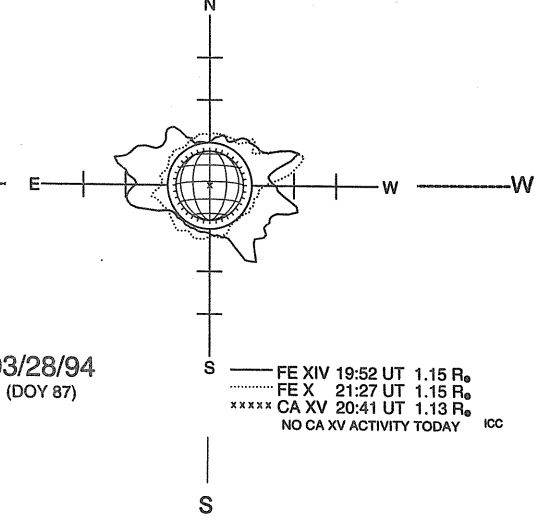
1435 UT

BOULDER SUNSPOT



1541 UT
0642 UT LOMN Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/28/94
(DOY 87)

FE XIV 19:52 UT 1.15 $R_\odot$
FE X 21:27 UT 1.15 $R_\odot$
CA XV 20:41 UT 1.13 $R_\odot$
NO CA XV ACTIVITY TODAY

ICC

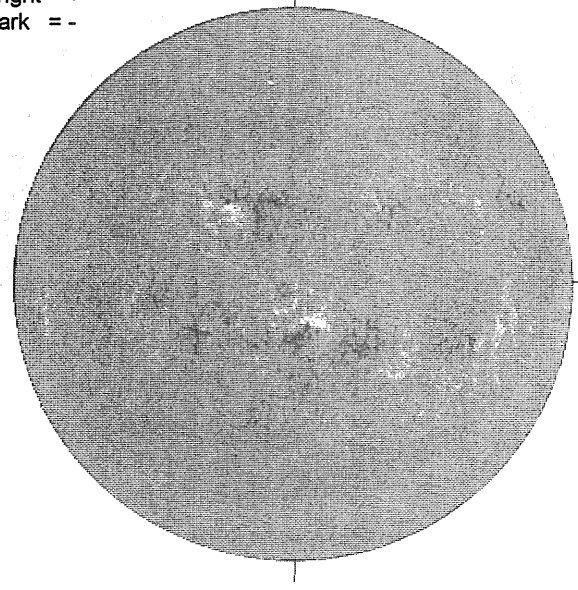
MARCH 29, 1994 (P=-26.00, Bo =-6.70, Lo = 60.62)

KITT PEAK MAGNETOGRAM

N

5507A

Bright = +
Dark = -



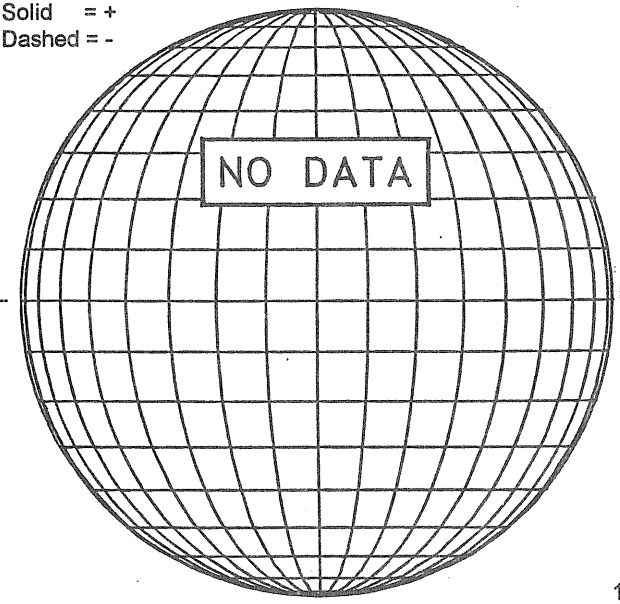
E-

1446 UT

STANFORD MAGNETOGRAM

N

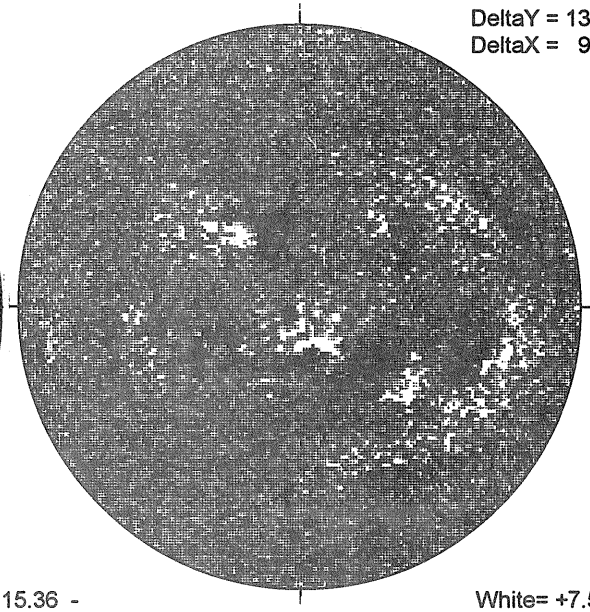
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

DeltaY = 13.1
DeltaX = 9.6

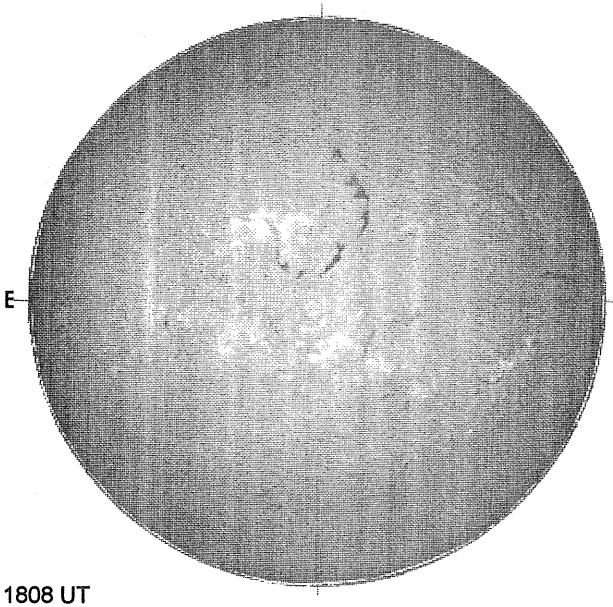


-W

15.36 -
16.30 UT

White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA

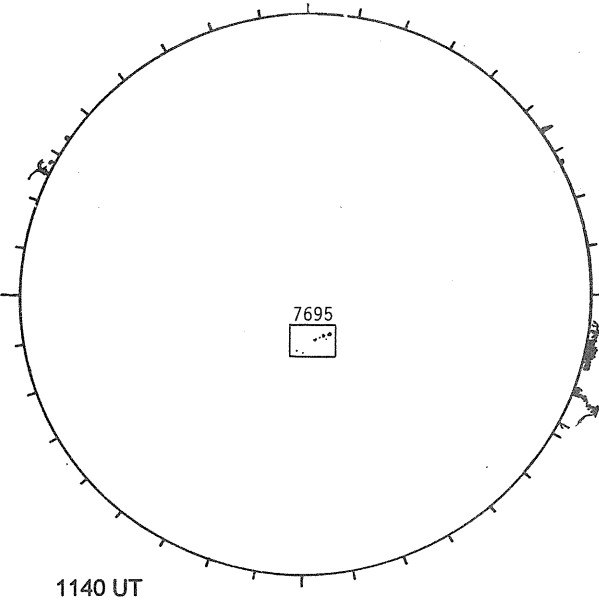


E-

1808 UT

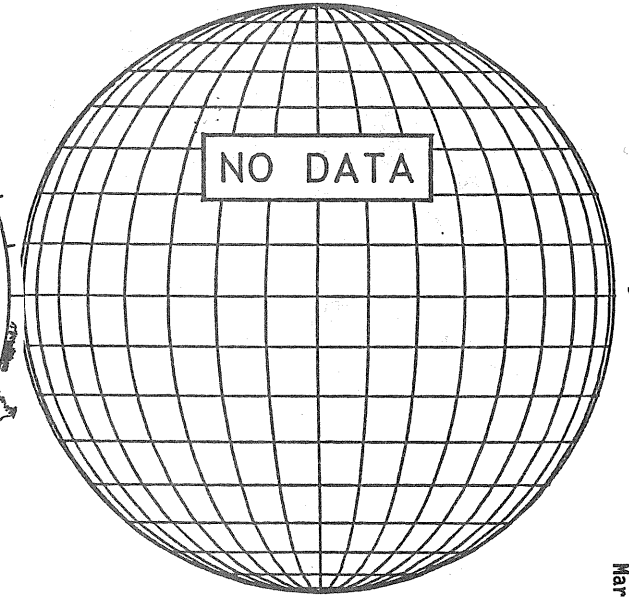
S

RAMEY SUNSPOT



1140 UT
0551 UT LOMN Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)



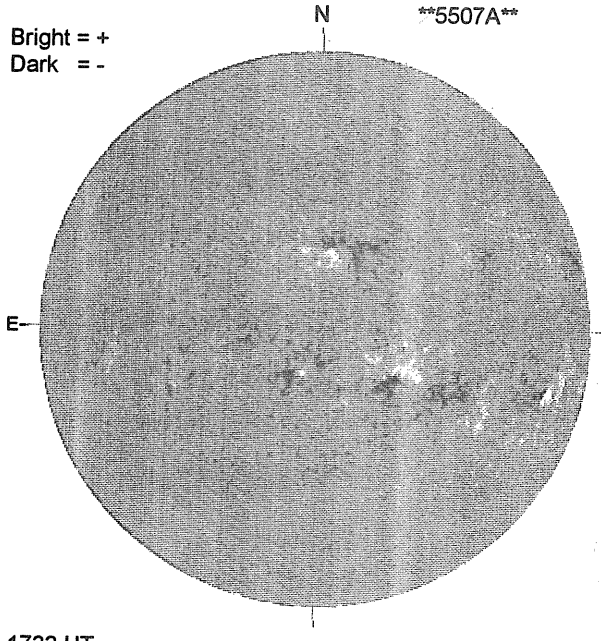
-W

S

69
Mar 94

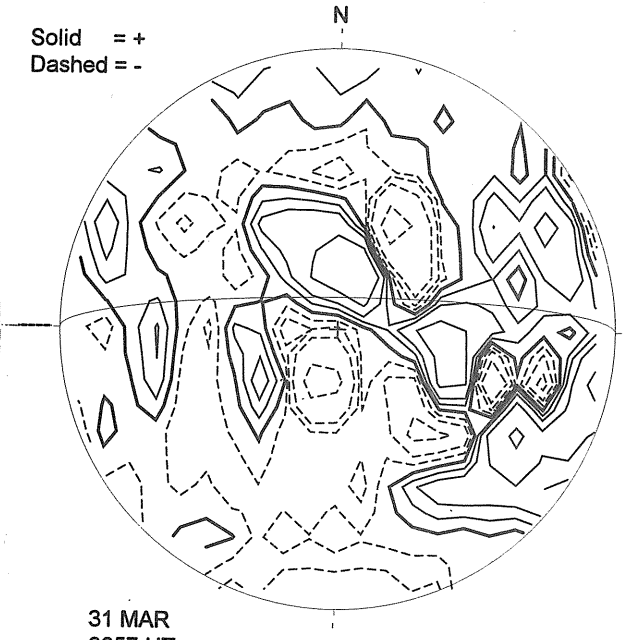
MARCH 30, 1994 (P=-26.07, Bo =-6.65, Lo = 47.43)

KITT PEAK MAGNETOGRAM



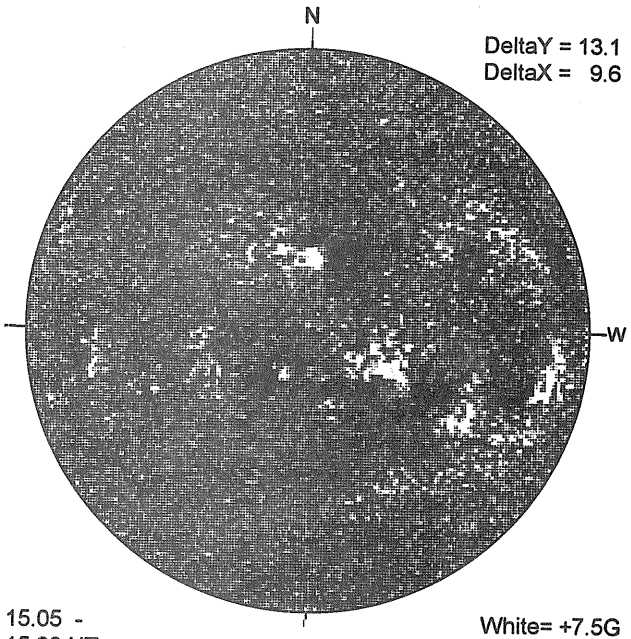
1733 UT

STANFORD MAGNETOGRAM



31 MAR
0057 UT

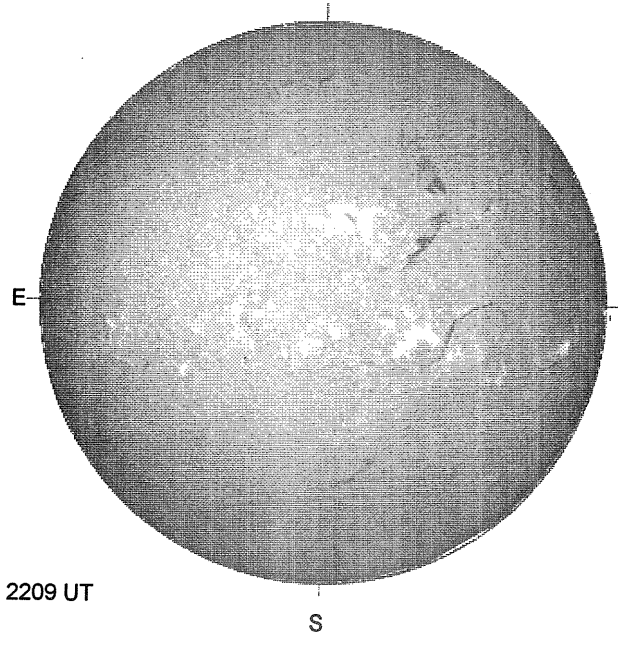
MT. WILSON MAGNETOGRAM



15.05 -
15.99 UT

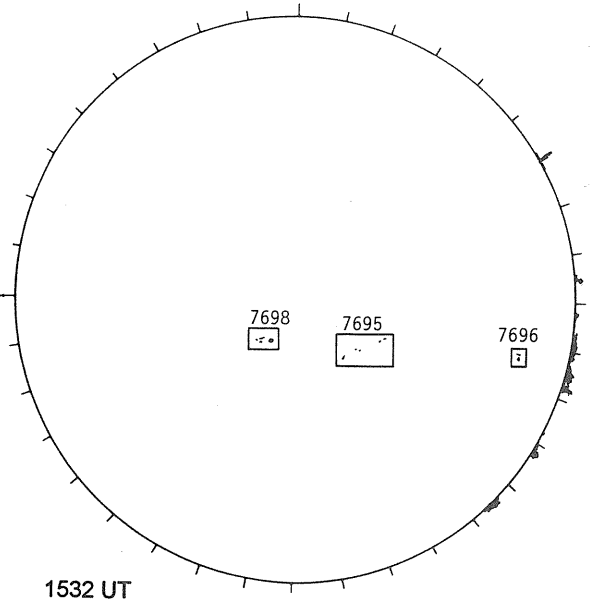
White= +7.5G
Black = -7.5G

----- SACRAMENTO PEAK H-ALPHA



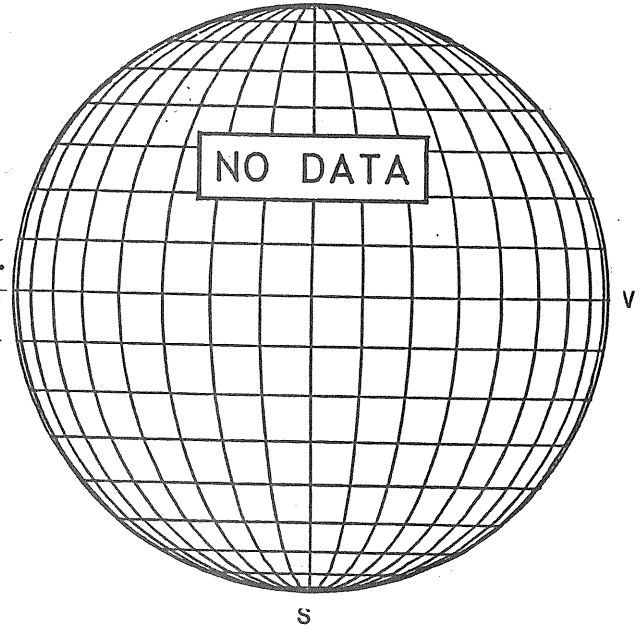
2209 UT

BOULDER SUNSPOT



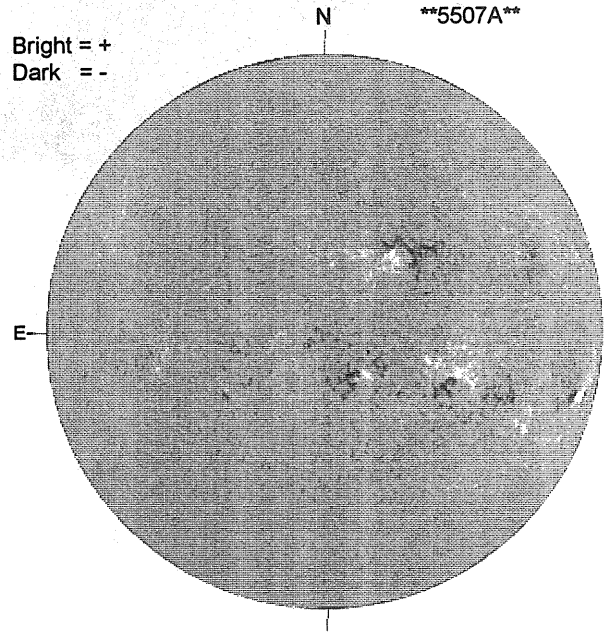
1532 UT
1543 UT BOUL Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)----



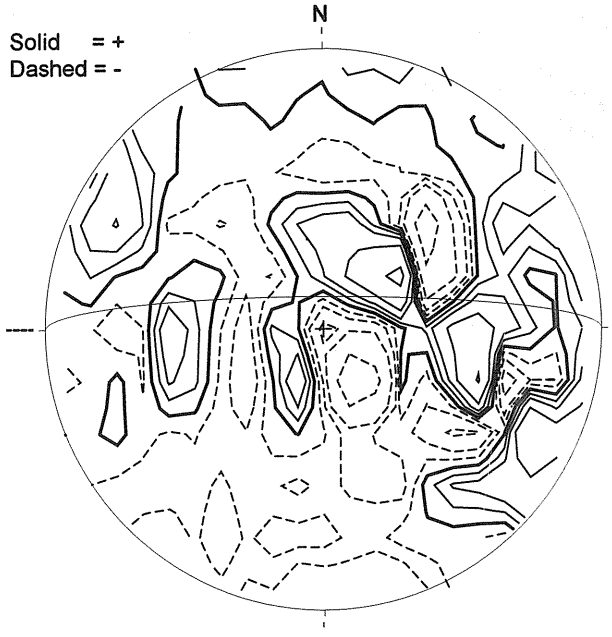
MARCH 31, 1994 (P=-26.12, Bo =-6.60, Lo = 34.24)

KITT PEAK MAGNETOGRAM



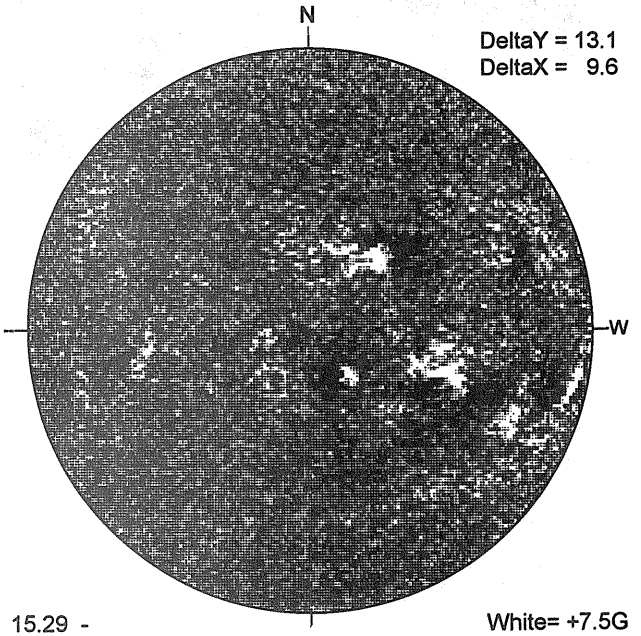
1425 UT

STANFORD MAGNETOGRAM



1940 UT

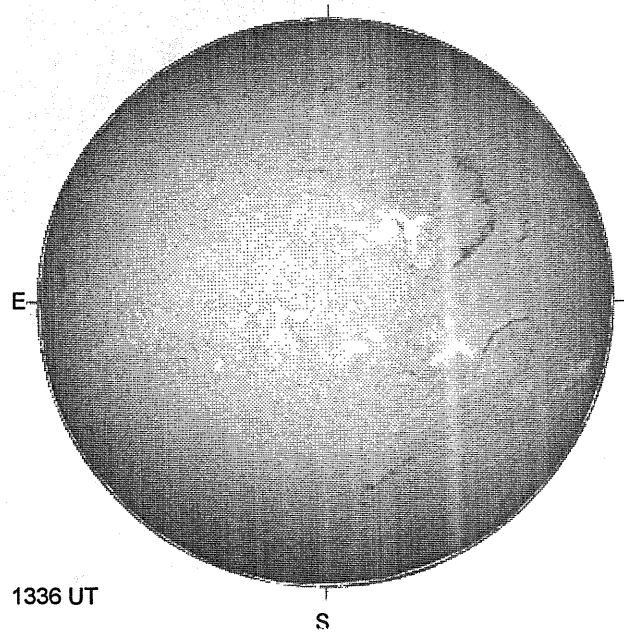
MT. WILSON MAGNETOGRAM



15.29 -
16.23 UT

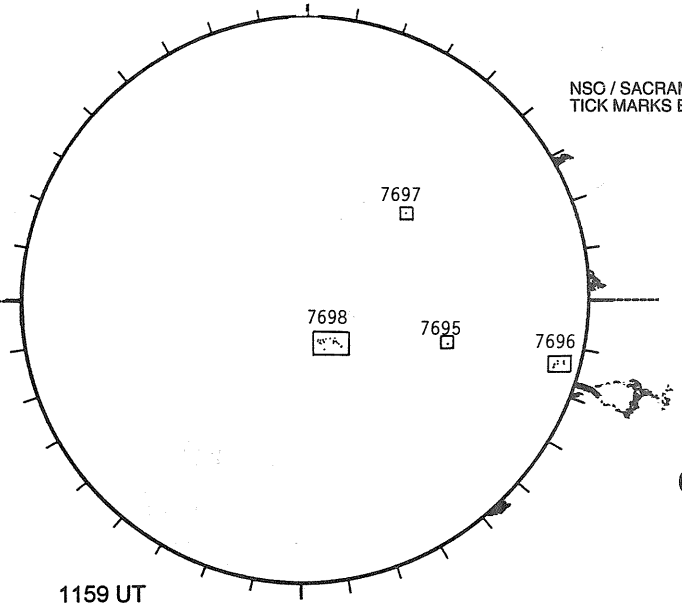
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



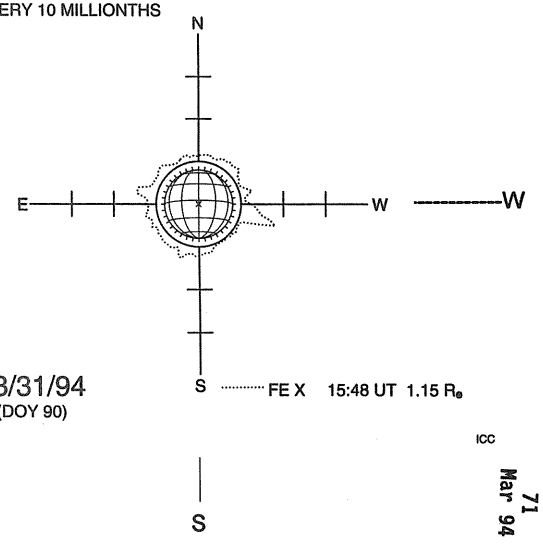
1336 UT

RAMEY SUNSPOT



1159 UT
0717 UT VALA Prom S

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



03/31/94
(DOY 90)

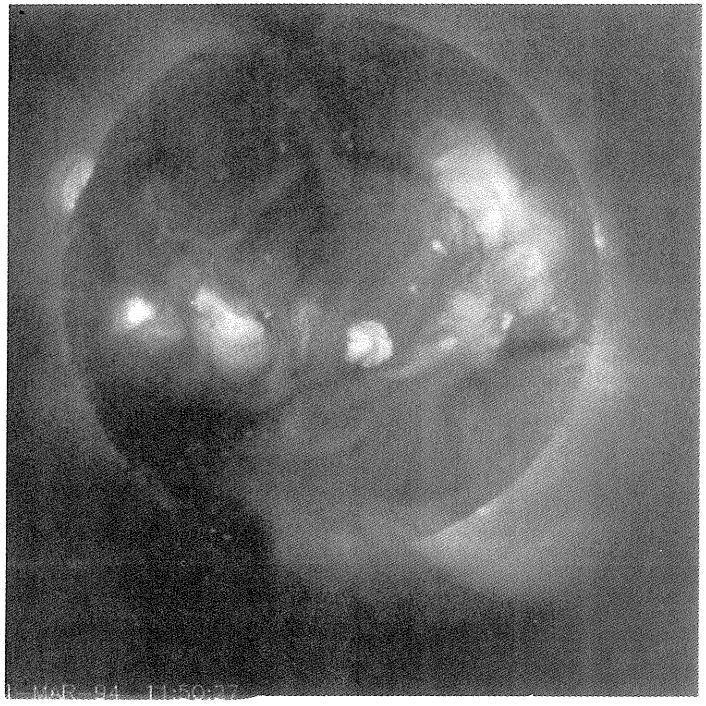
FE X 15:48 UT 1.15 $R_\odot$

ICC

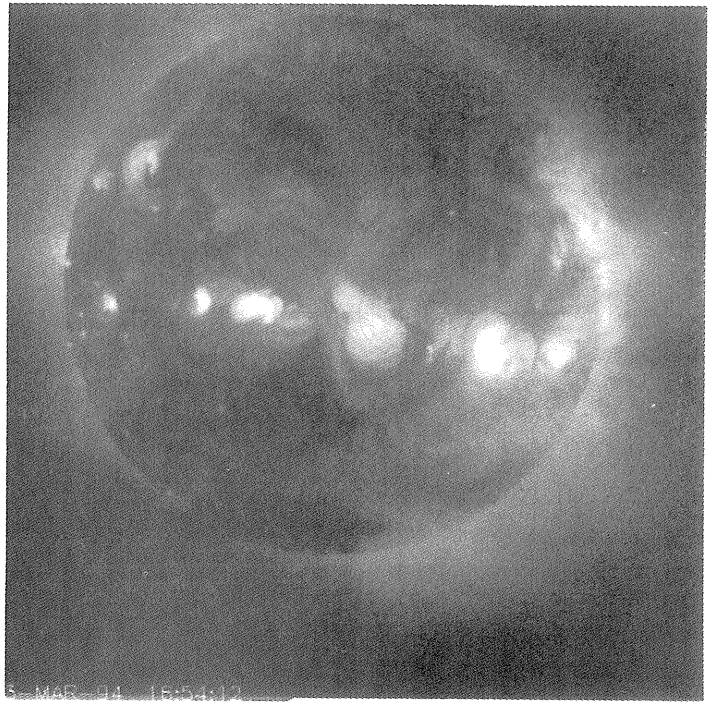
71
Mar 94

YOHKOH SOFT X-RAY TELESCOPE IMAGES

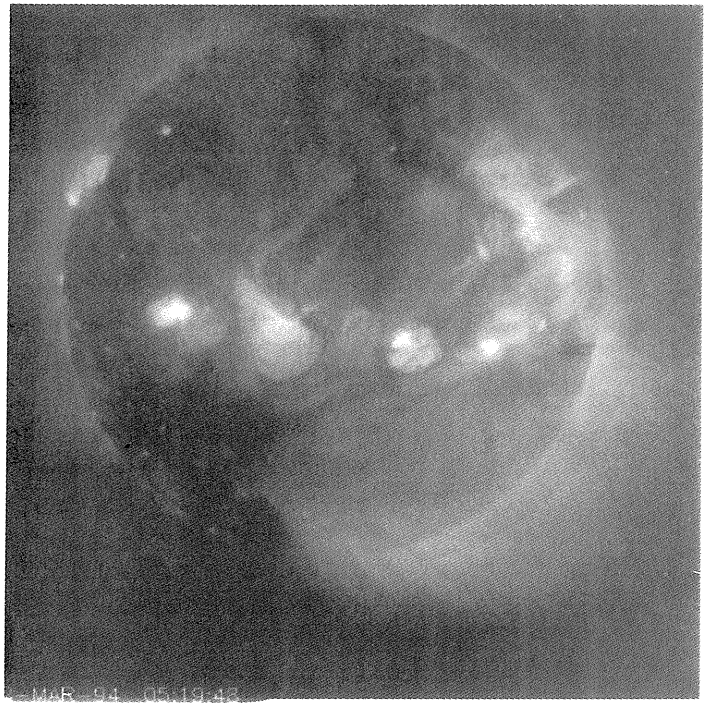
March 1994



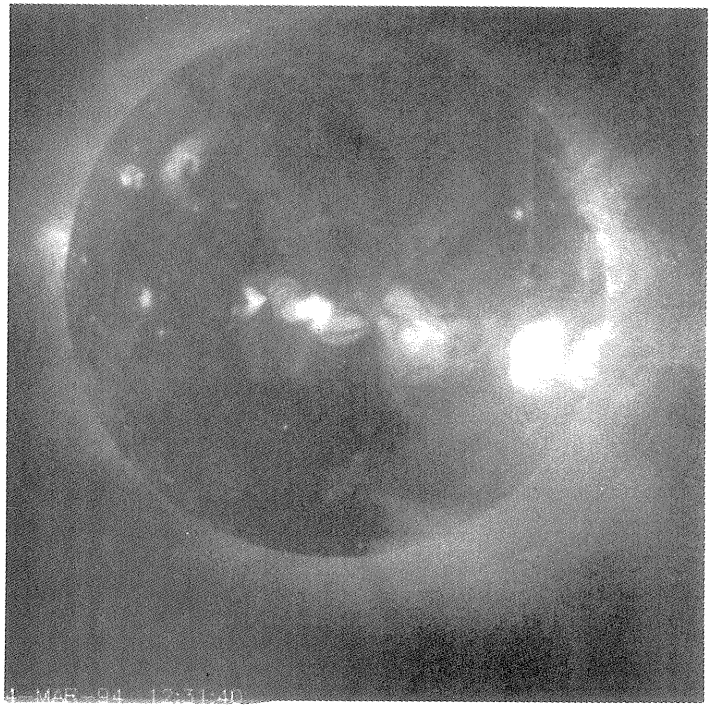
Day 1
11:50:27 UT



Day 3
16:54:12 UT



Day 2
05:19:48 UT

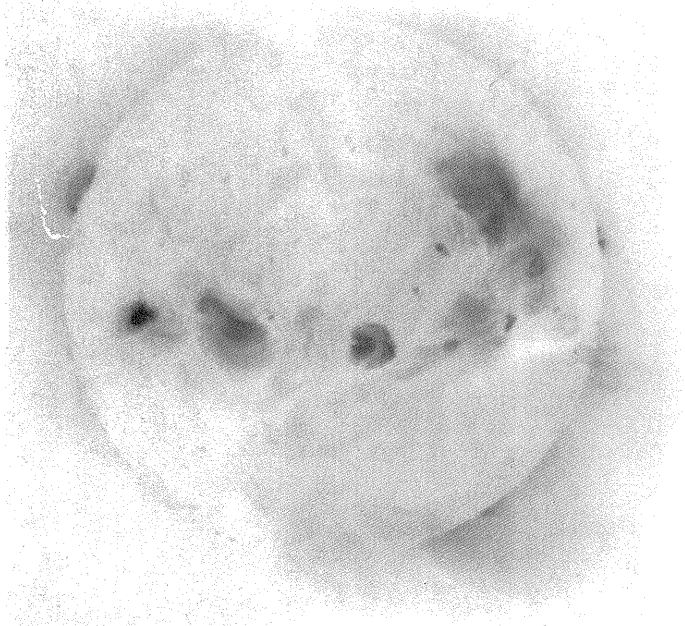


Day 4
12:31:40 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

March 1994

Day 1
11:50:27 UT

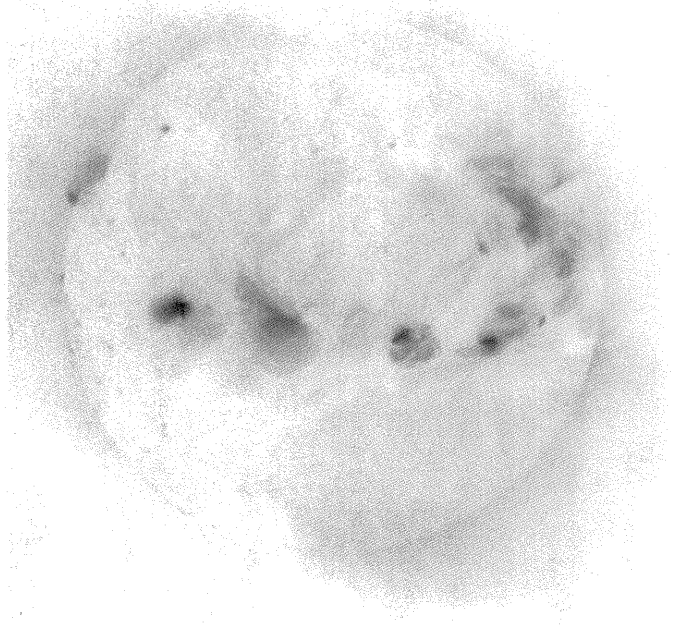


1-MAR-94 11:50:27

Day 3
16:54:12 UT

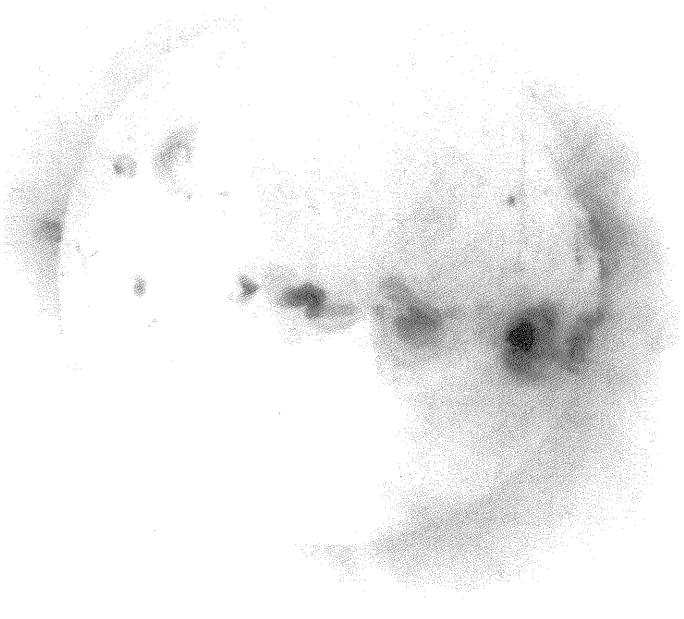
3-MAR-94 16:54:12

Day 2
05:19:48 UT



2-MAR-94 05:19:48

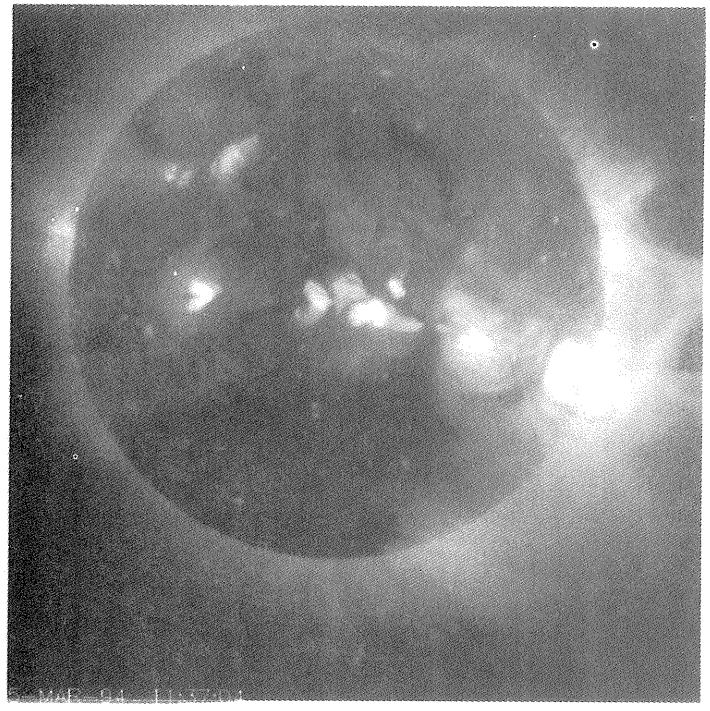
Day 4
12:31:40 UT



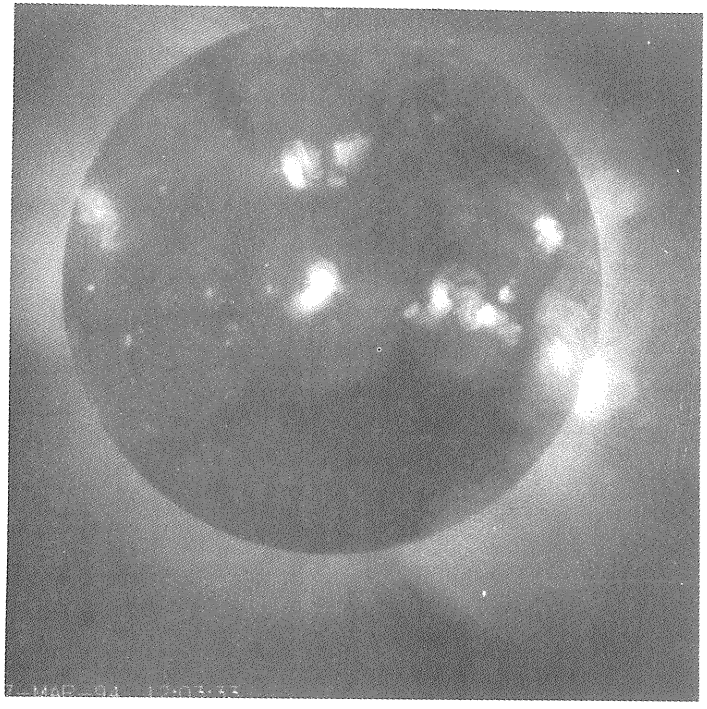
4-MAR-94 12:31:40

YOHKOH SOFT X-RAY TELESCOPE IMAGES

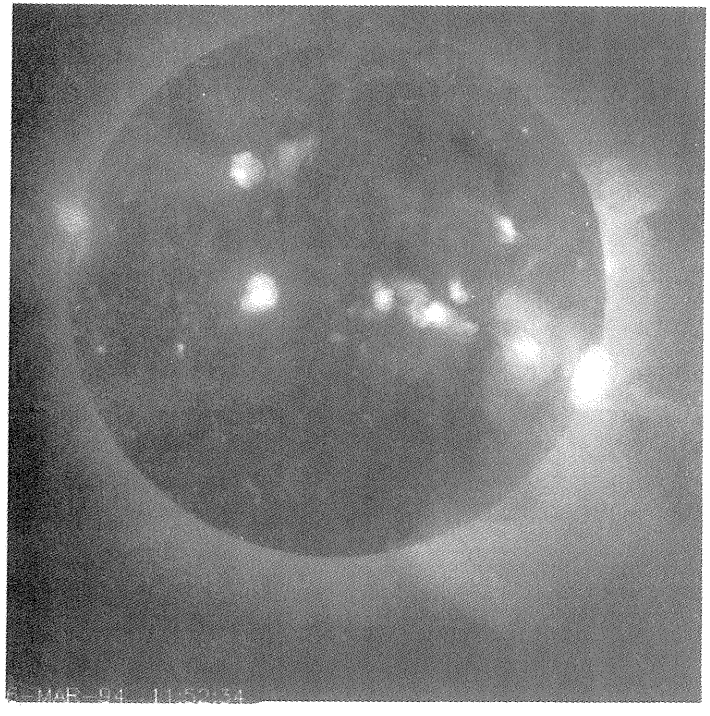
March 1994



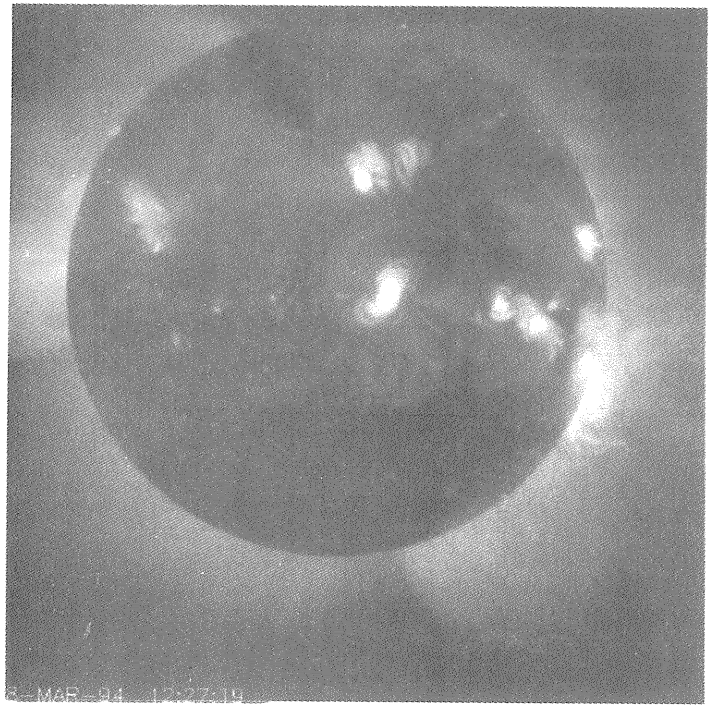
Day 5
11:37:04 UT



Day 7
12:03:33 UT



Day 6
11:52:34 UT

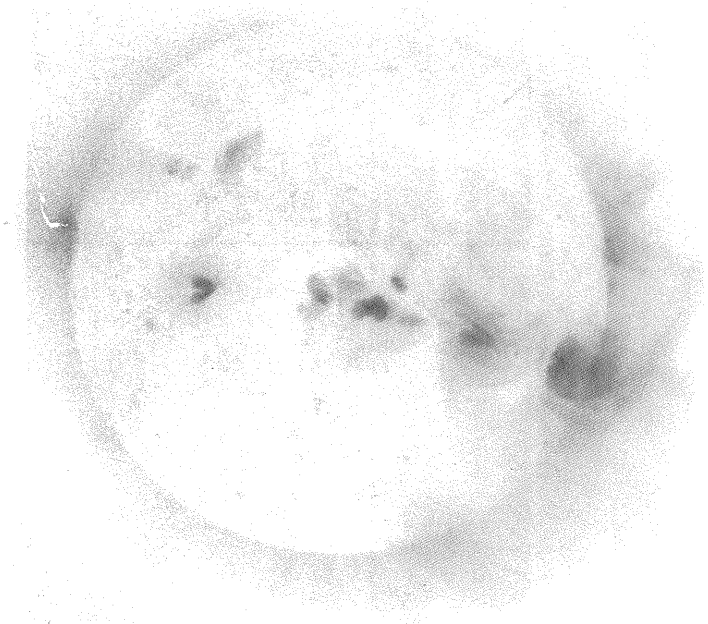


Day 8
12:27:19 UT

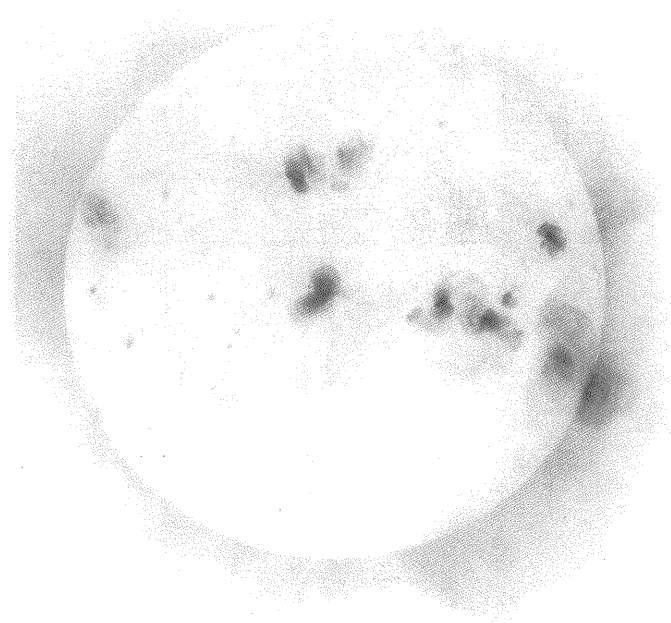
YOHKOH SOFT X-RAY TELESCOPE IMAGES

March 1994

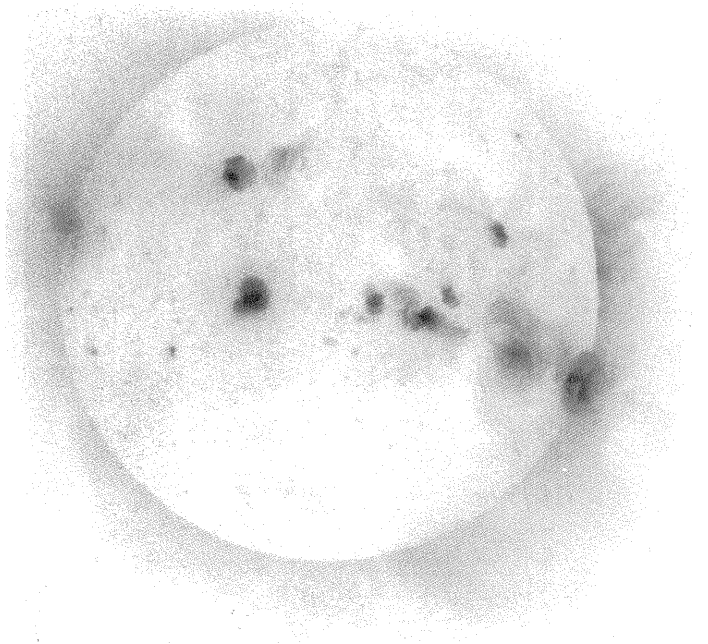
Day 5
11:37:04 UT



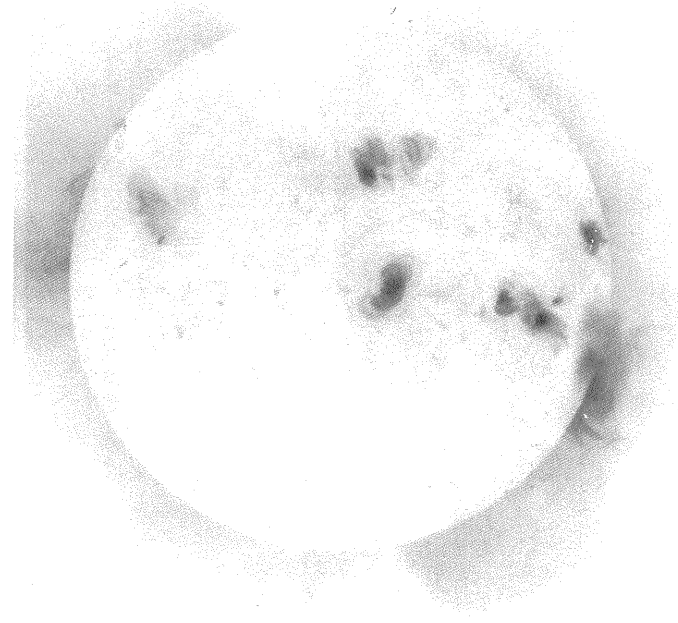
Day 7
12:03:33 UT



Day 6
11:52:34 UT

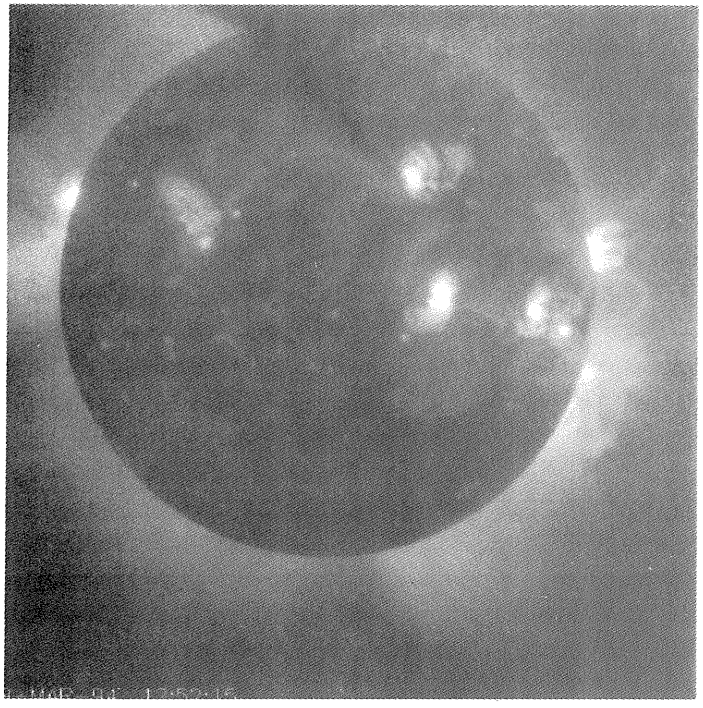


Day 8
12:27:19 UT

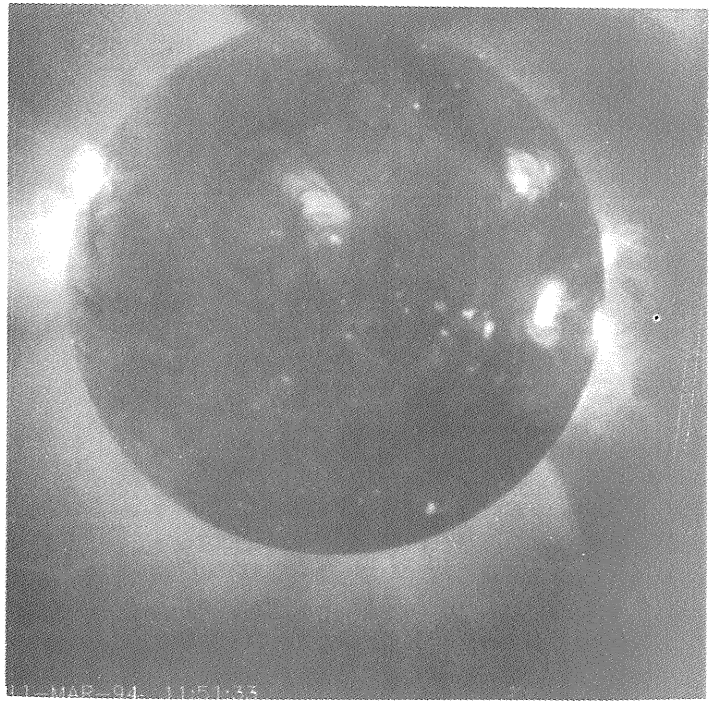


YOHKOH SOFT X-RAY TELESCOPE IMAGES

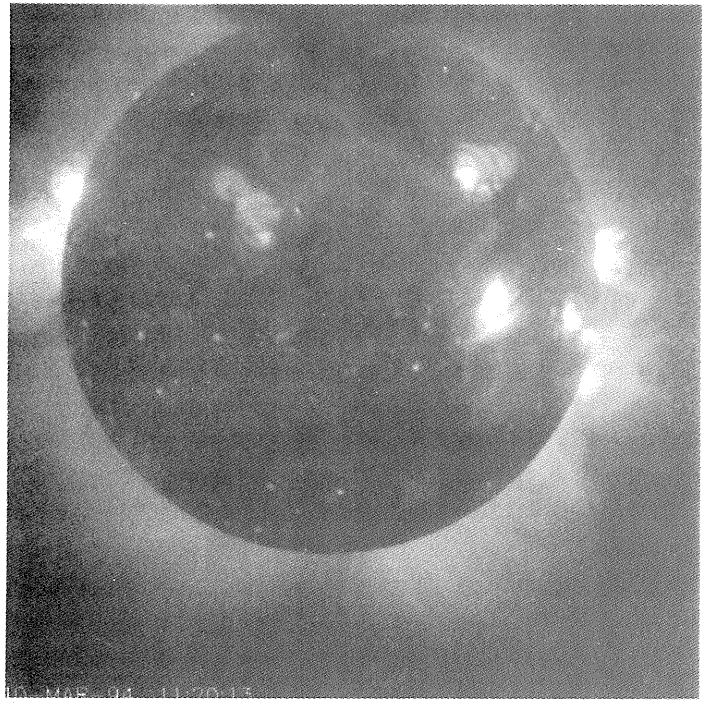
March 1994



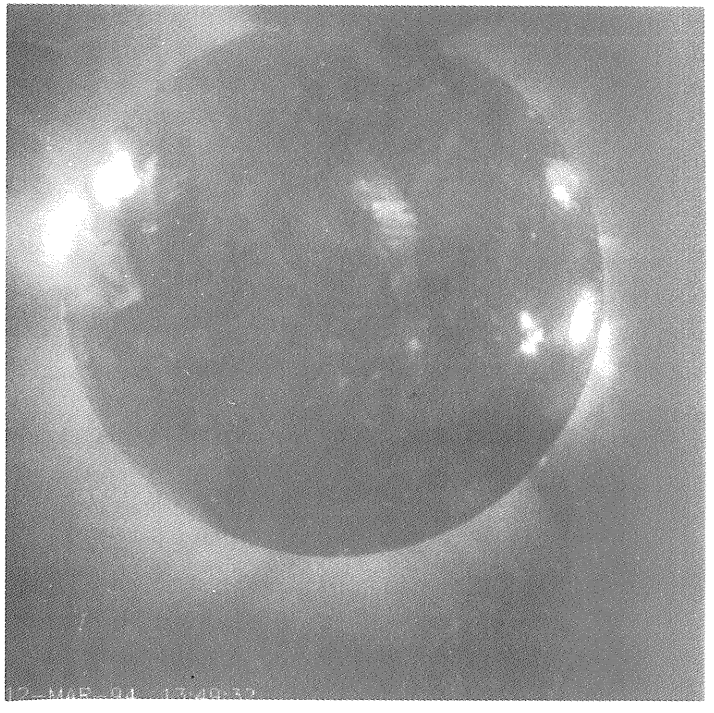
Day 9
12:52:15 UT



Day 11
11:51:33 UT



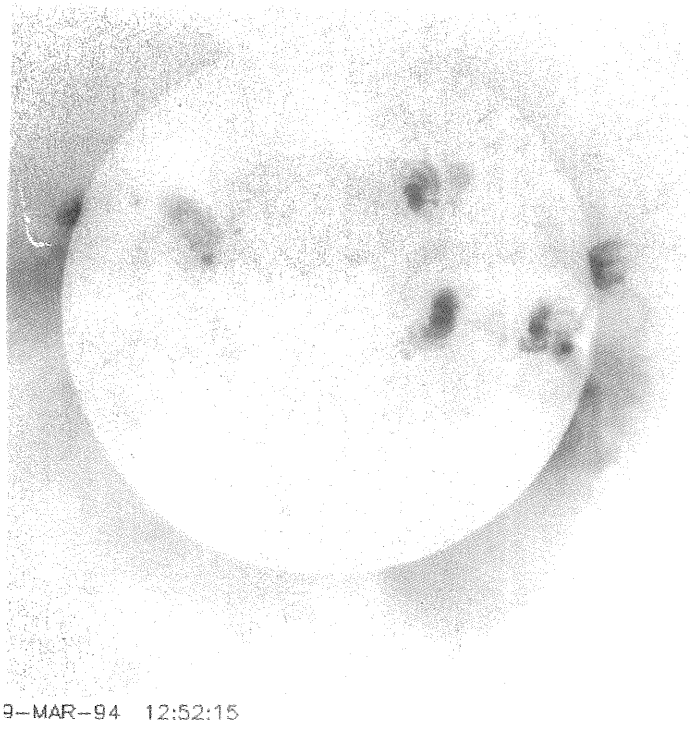
Day 10
11:20:13 UT



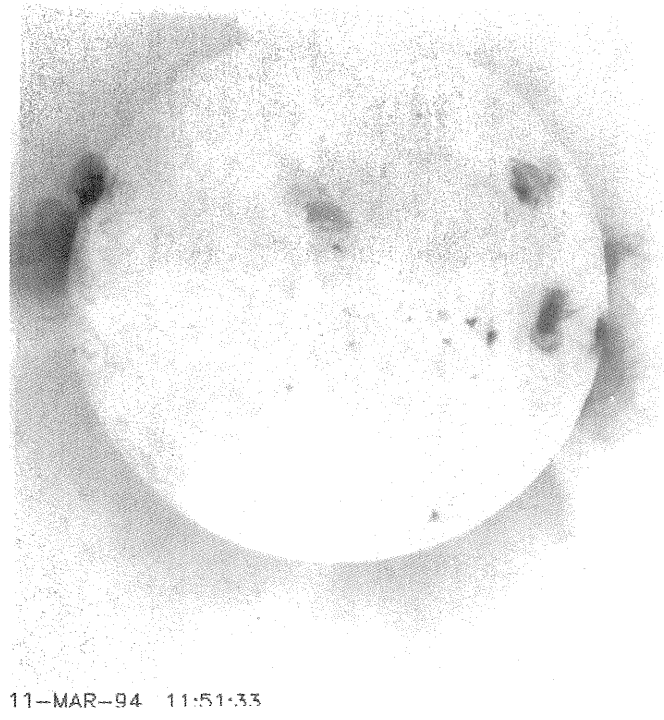
Day 12
13:49:32 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

March 1994



Day 9
12:52:15 UT



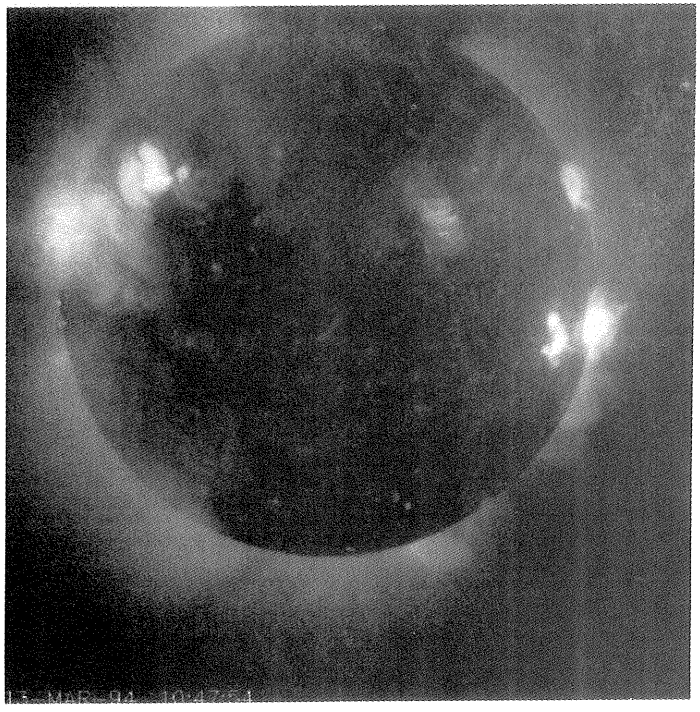
Day 11
11:51:33 UT

Day 10
11:20:13 UT

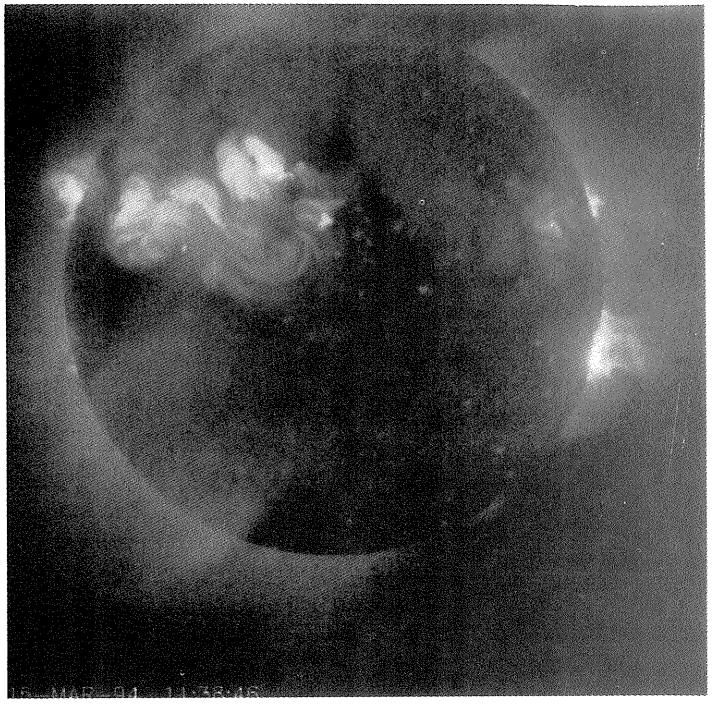
Day 12
13:49:32 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

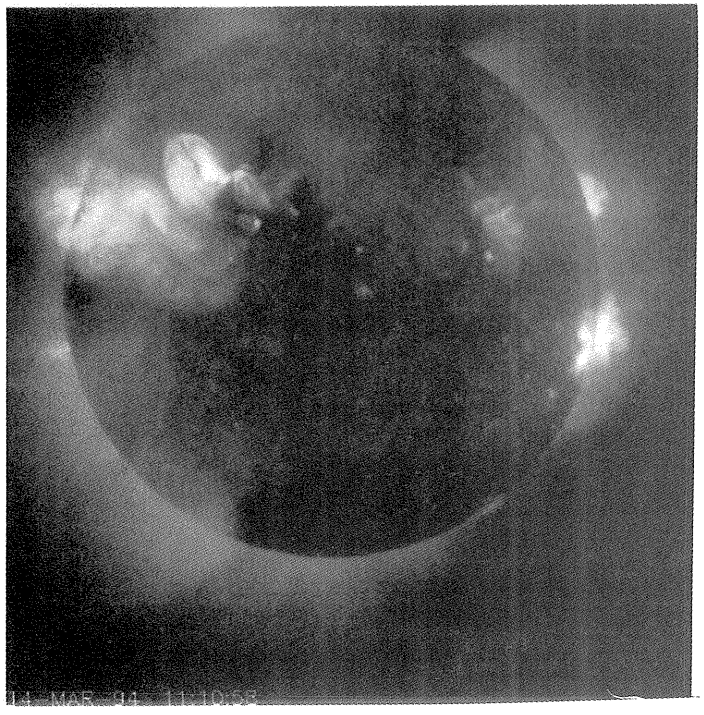
March 1994



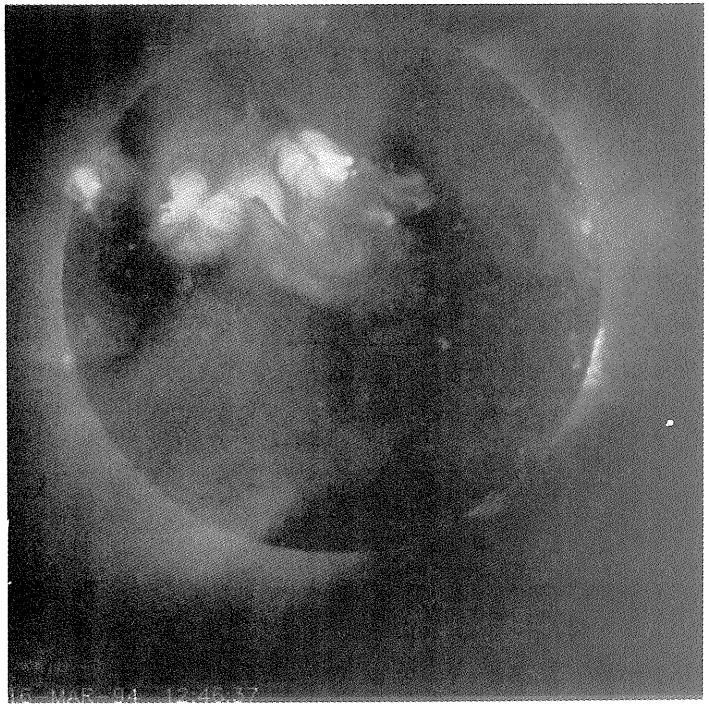
Day 13
10:47:54 UT



Day 15
11:38:46 UT



Day 14
11:10:58 UT



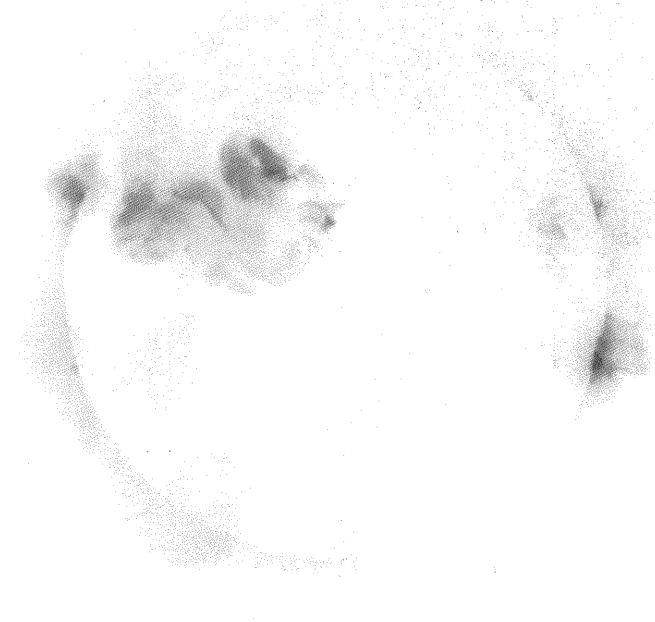
Day 16
12:46:37 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

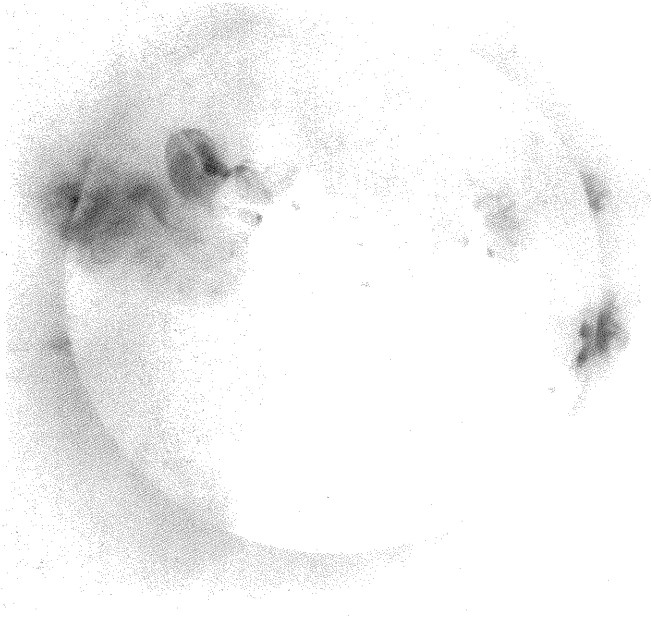
March 1994

Day 13
10:47:54 UT

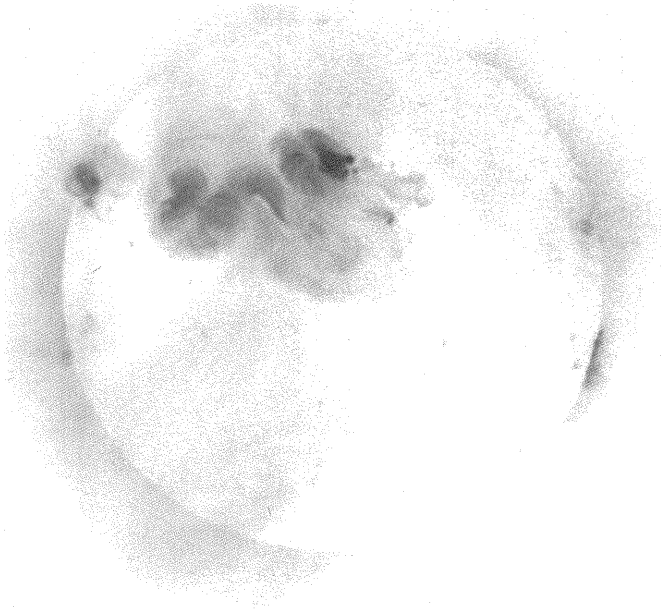
Day 15
11:38:46 UT



Day 14
11:10:58 UT

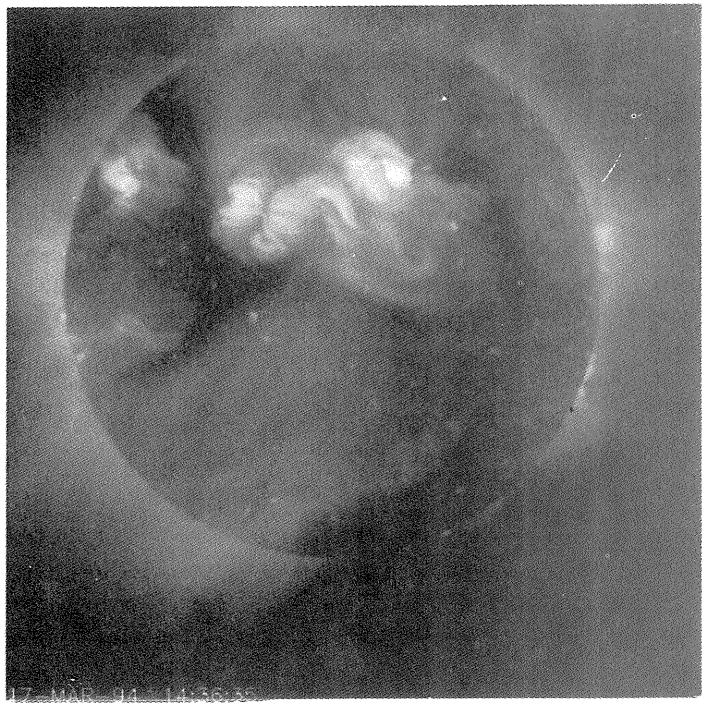


Day 16
12:46:37 UT

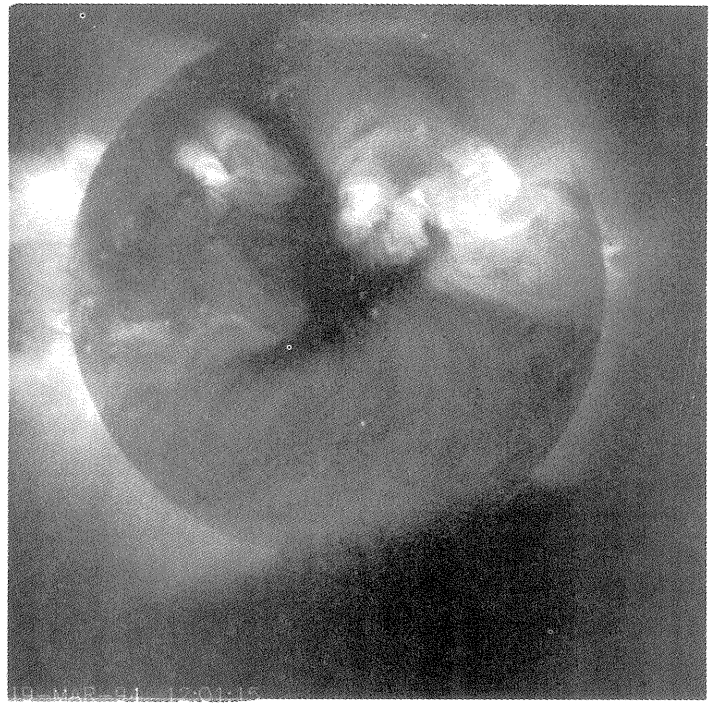


YOHKOH SOFT X-RAY TELESCOPE IMAGES

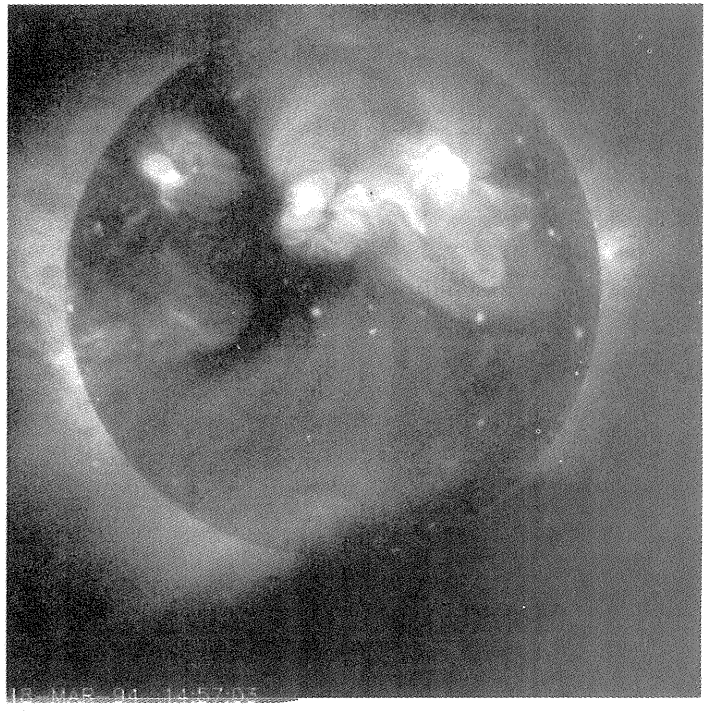
March 1994



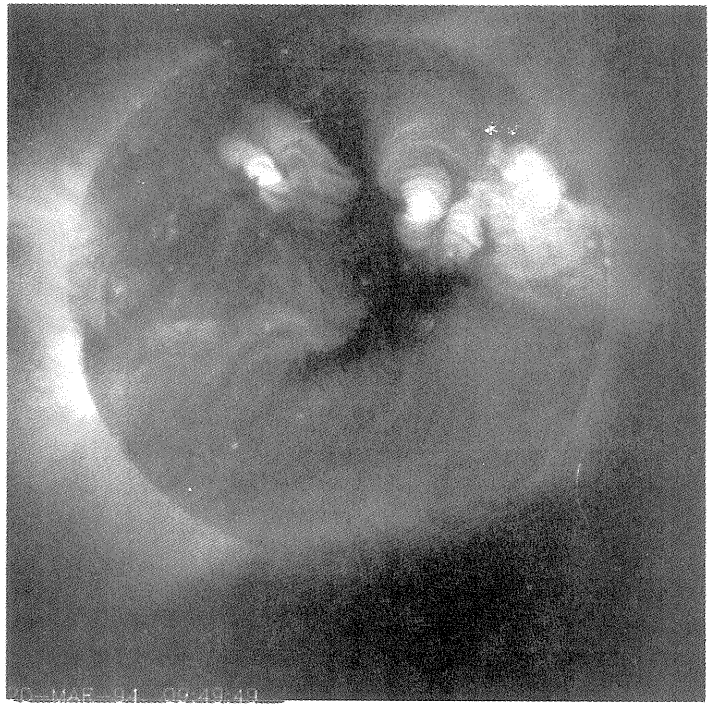
Day 17
14:36:35 UT



Day 19
12:01:15 UT



Day 18
14:57:03 UT



Day 20
09:49:49 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

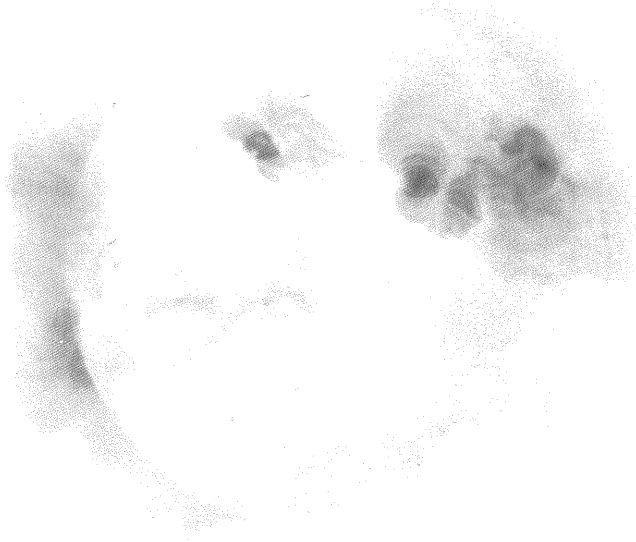
March 1994

Day 17
14:36:35 UT

Day 19
12:01:15 UT

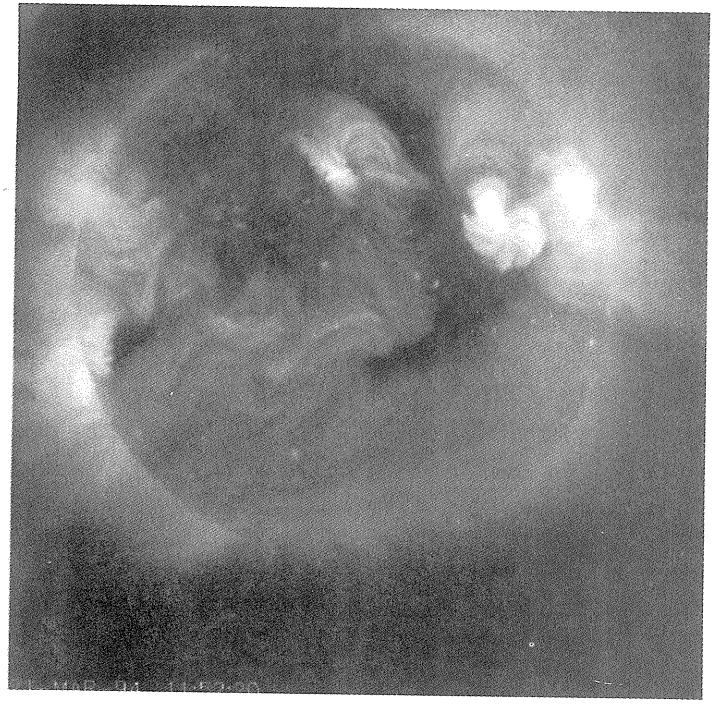
Day 18
14:57:03 UT

Day 20
09:49:49 UT

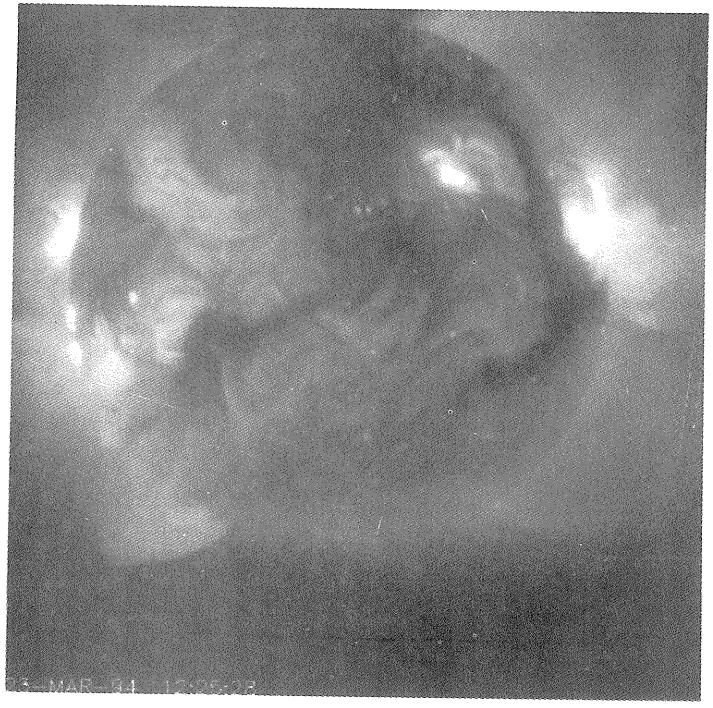


YOHKOH SOFT X-RAY TELESCOPE IMAGES

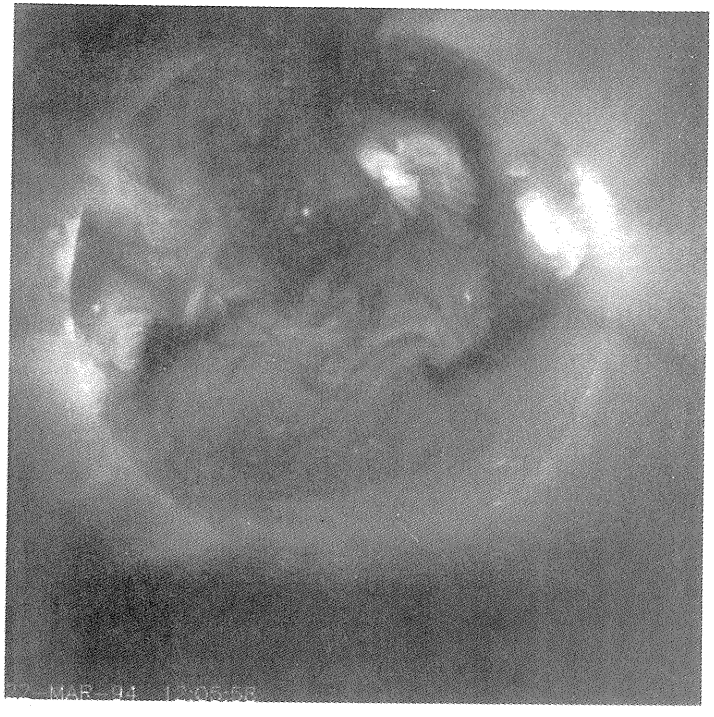
March 1994



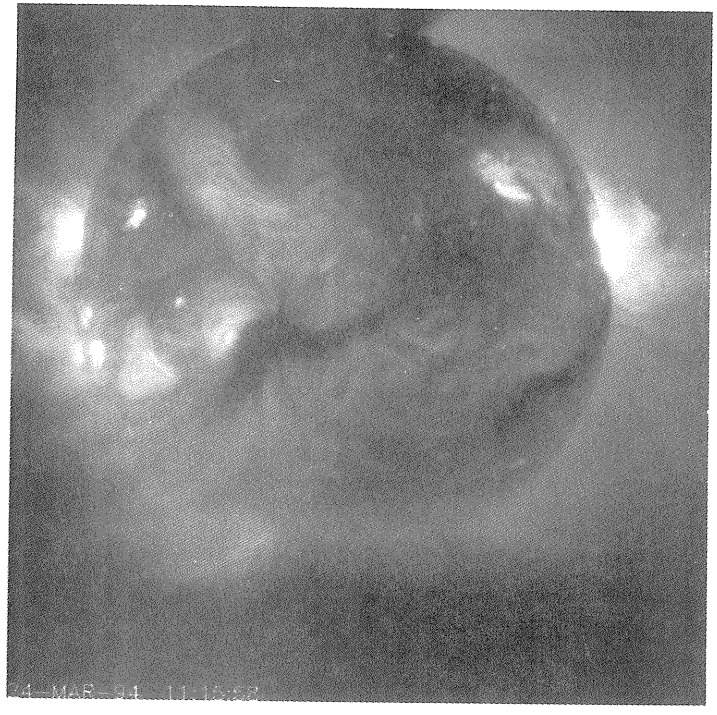
Day 21
11:52:20 UT



Day 23
12:25:28 UT



Day 22
12:05:58 UT

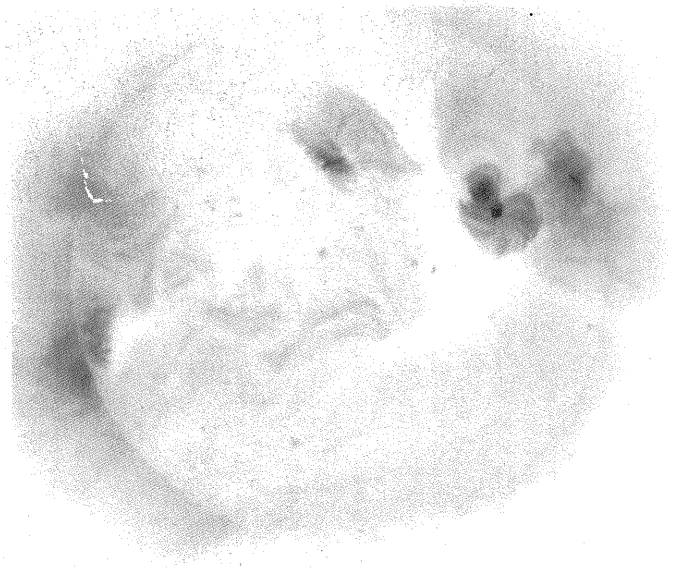


Day 24
11:15:58 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

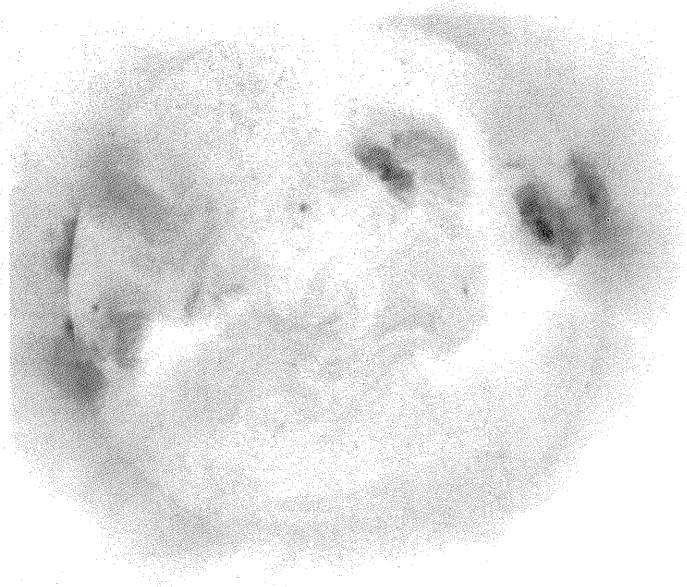
March 1994

Day 21
11:52:20 UT

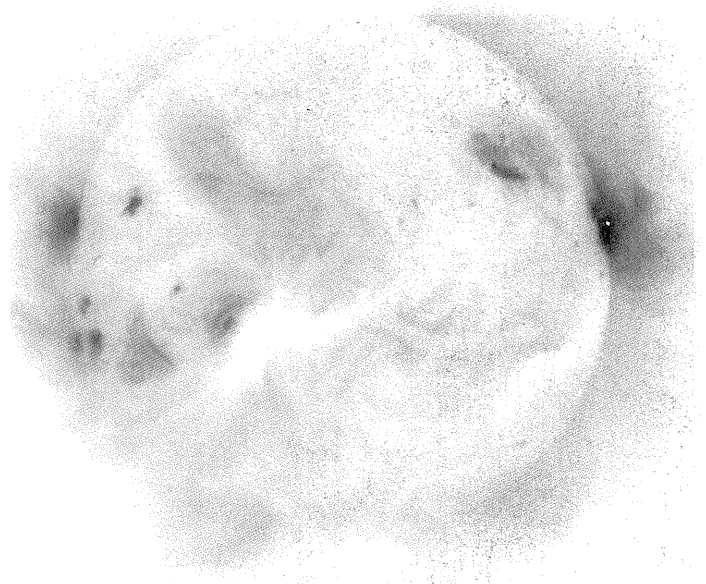


Day 23
12:25:28 UT

Day 22
12:05:58 UT

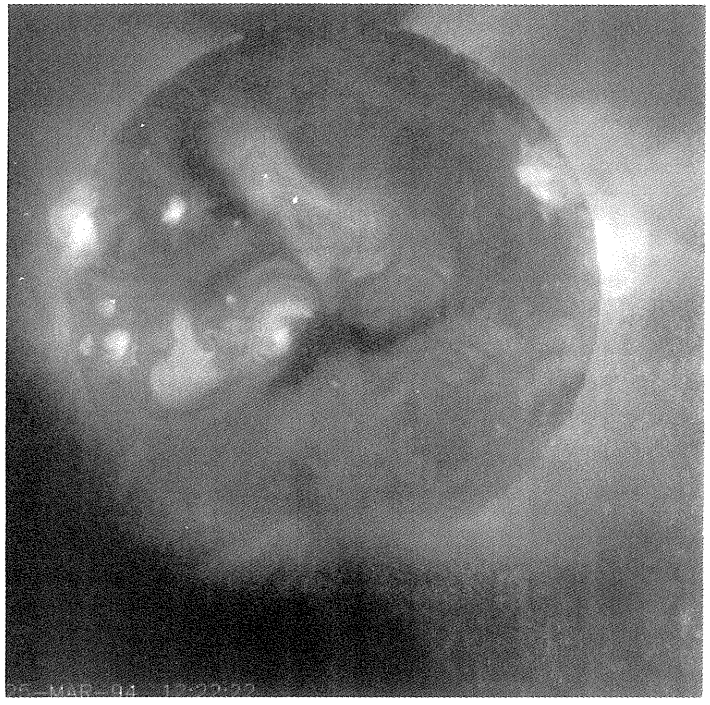


Day 24
11:15:58 UT

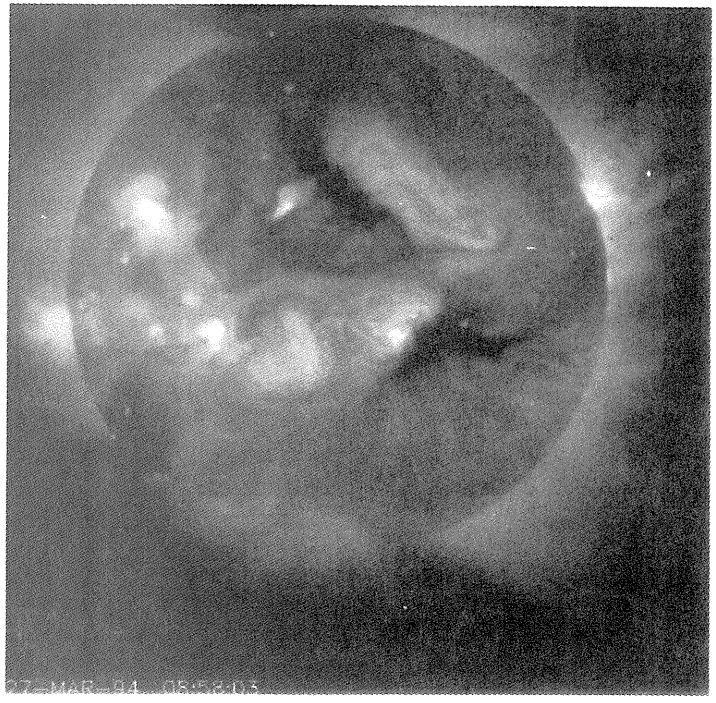


YOHKOH SOFT X-RAY TELESCOPE IMAGES

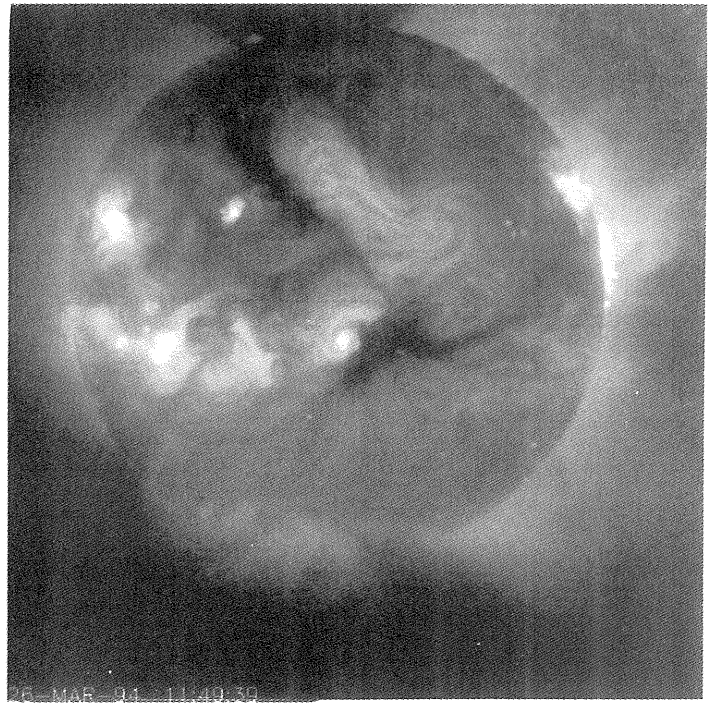
March 1994



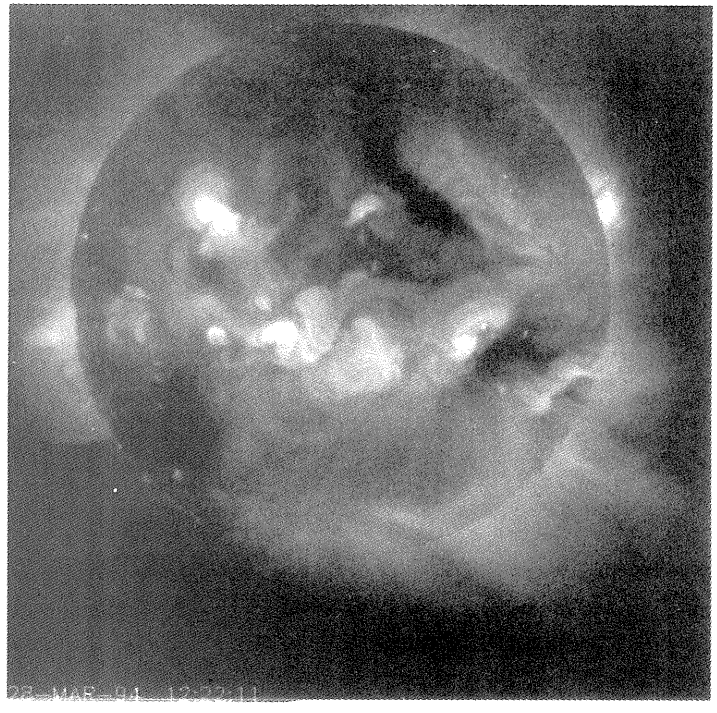
Day 25
12:22:22 UT



Day 27
08:58:03 UT



Day 26
11:49:39 UT

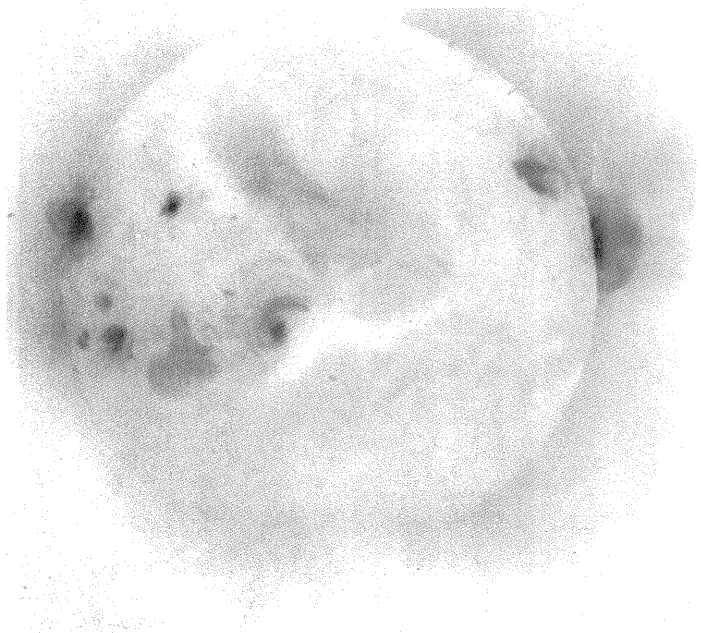


Day 28
12:22:11 UT

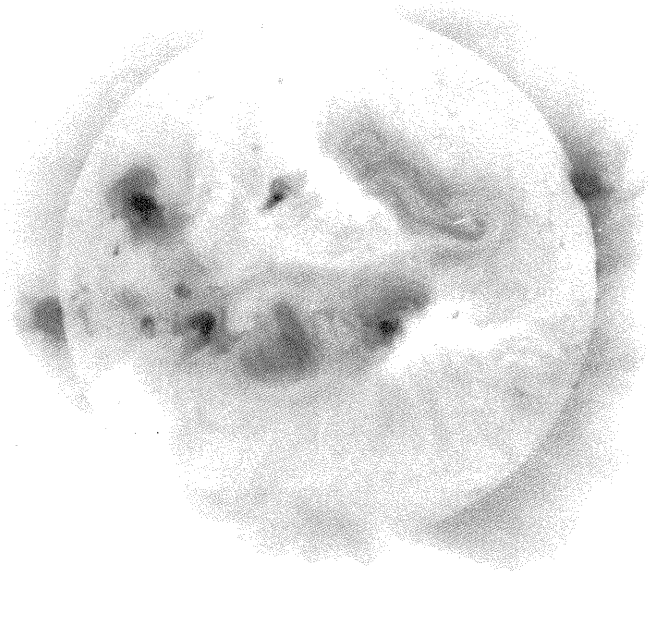
YOHKOH SOFT X-RAY TELESCOPE IMAGES

March 1994

Day 25
12:22:22 UT

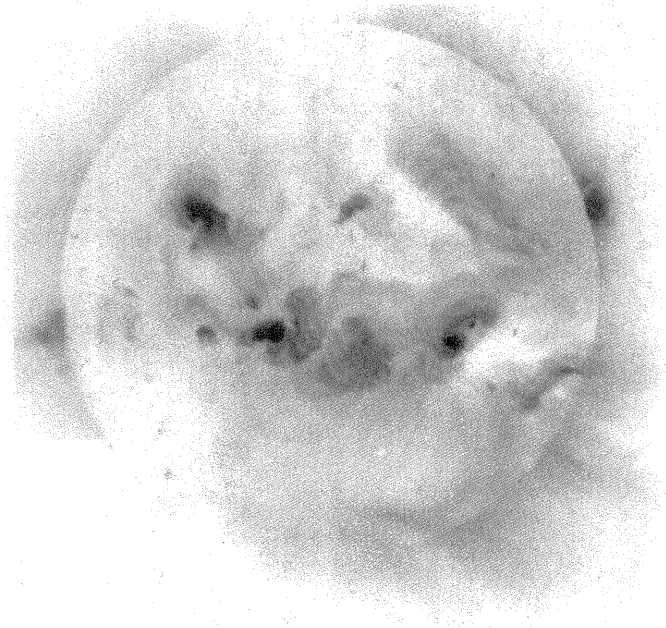


Day 27
08:58:03 UT



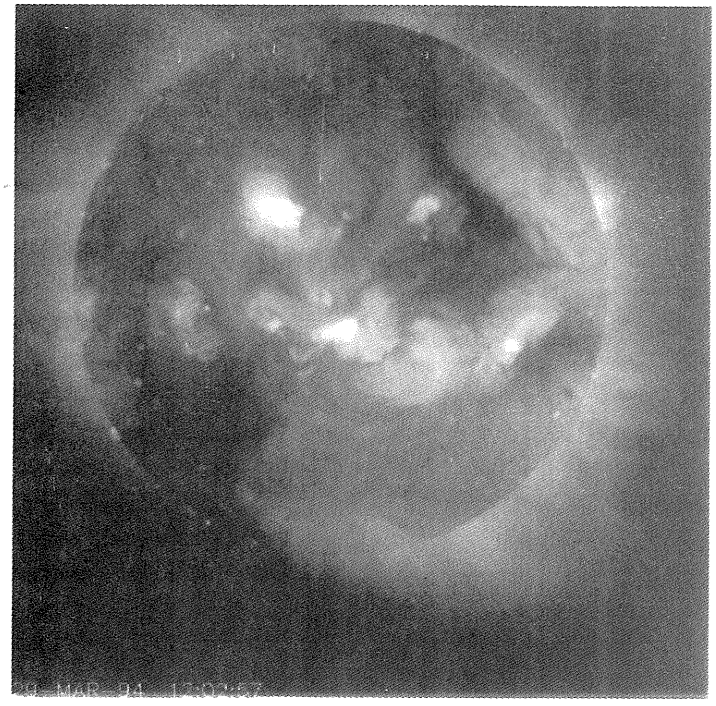
Day 26
11:49:39 UT

Day 28
12:22:11 UT

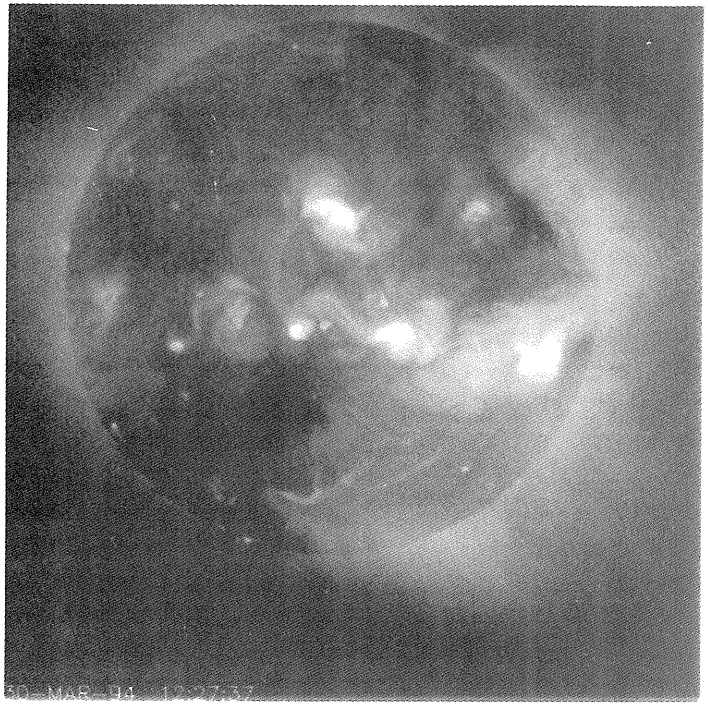


YOHKOH SOFT X-RAY TELESCOPE IMAGES

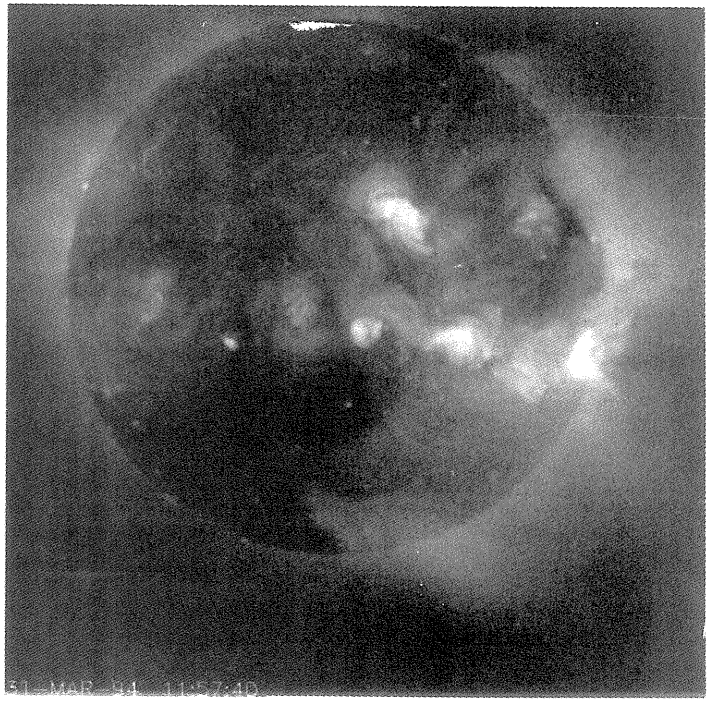
March 1994



Day 29
12:02:57 UT



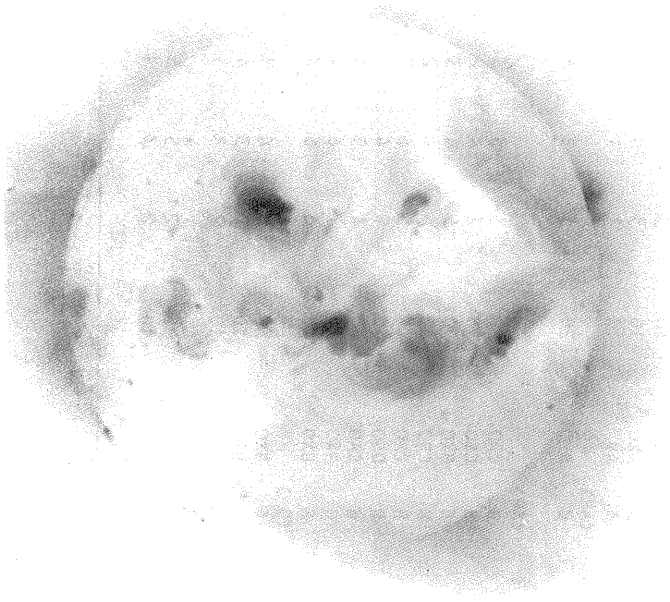
Day 30
12:27:37 UT



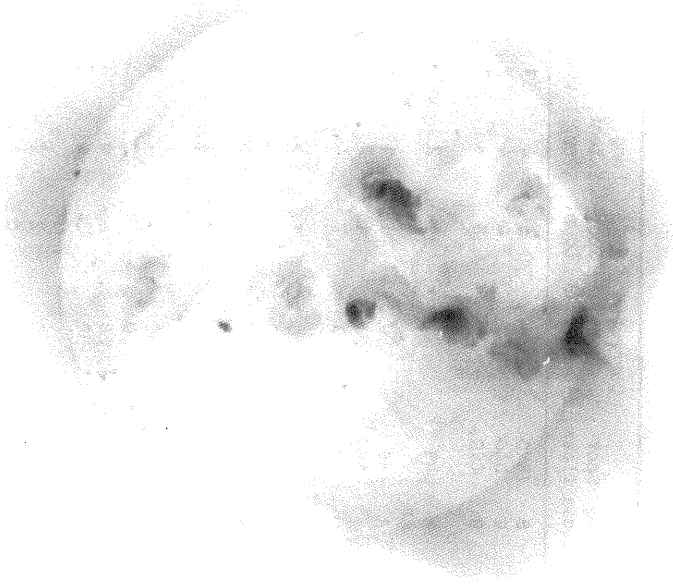
Day 31
11:57:40 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

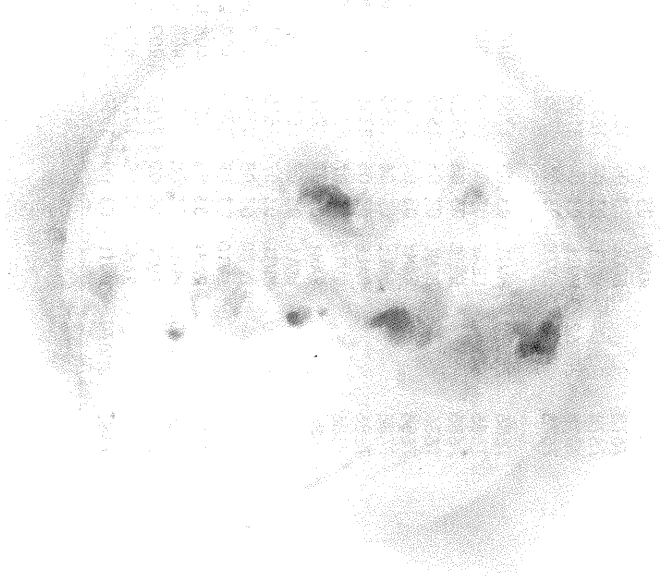
March 1994



Day 29
12:02:57 UT



Day 31
11:57:40 UT



Day 30
12:27:37 UT

SUNSPOT GROUPS
(Ordered by Central Meridian Passage Date)

MARCH 1994

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo	Day	(UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7678A		LEAR	02	28	0138	S19	E13	03	1.1		B	BXO	20	6	4	3
7678A		SVTO	02	28	0710	S19	E09	03	1.0		B	DAO	50	4	4	2
7678A		RAMY	02	28	1241	S19	E07	03	1.1		B	CRO	20	8	6	3
7678		RAMY	02	24	1220	S14	E79	03	2.5		A	HS	30	1	2	4
7678	28062	MWIL	02	24	1545	S13	E78	03	2.5	5	AP					
7678		HOLL	02	24	1546	S13	E80	03	2.7		A	HS	120	1	1	3
7678		SVTO	02	25	0745	S14	E70	03	2.6		A	HS	130	1	2	4
7678		RAMY	02	25	1221	S15	E69	03	2.7		B	CAO	110	2	4	3
7678	28062	MWIL	02	25	1545	S14	E66	03	2.6	5	(AP)					
7678		HOLL	02	25	1605	S15	E66	03	2.7		A	HS	40	1	2	3
7678		SVTO	02	26	0815	S14	E57	03	2.6		A	HS	50	2	3	3
7678		RAMY	02	26	1300	S15	E55	03	2.7		A	HS	40	2	3	3
7678		BOUL	02	26	1459	S13	E52	03	2.5		A	HS	80	1	1	1
7678		HOLL	02	26	1537	S13	E52	03	2.6		A	HS	30	2	1	3
7678	28062	MWIL	02	26	1735	S14	E52	03	2.7	5	(AP)					
7678		LEAR	02	27	0030	S13	E46	03	2.5		A	HS	60	1	1	3
7678		SVTO	02	27	0800	S14	E45	03	2.7		B	CSO	60	3	3	3
7678		RAMY	02	27	1236	S14	E42	03	2.7		B	CSO	60	4	4	3
7678		HOLL	02	27	1517	S14	E40	03	2.6		B	CSO	50	2	4	3
7678	28062	MWIL	02	27	1545	S14	E40	03	2.7	5	(AP)					
7678		BOUL	02	27	1615	S13	E39	03	2.6		B	CSO	40	2	2	3
7678		LEAR	02	28	0138	S13	E35	03	2.7		B	CSO	70	6	5	3
7678		SVTO	02	28	0710	S15	E32	03	2.7		B	CSO	120	5	4	2
7678		RAMY	02	28	1241	S14	E29	03	2.7		B	CSO	70	3	4	3
7678	28062	MWIL	02	28	1545	S14	E27	03	2.7	5	(AP)					
7678		LEAR	03	01	0447	S15	E20	03	2.7		B	CSO	50	8	5	3
7678		SVTO	03	01	1010	S16	E16	03	2.6		B	CSO	130	5	5	2
7678		RAMY	03	01	1315	S14	E16	03	2.8		B	CSO	60	11	6	4
7678	28062	MWIL	03	01	1530	S14	E12	03	2.5	5	(AP)					
7678		HOLL	03	01	1535	S14	E14	03	2.7		B	CAO	50	5	3	3
7678		BOUL	03	01	1650	S13	E13	03	2.7		B	CSO	60	3	3	2
7678		LEAR	03	02	0210	S14	E09	03	2.8		B	CAO	40	5	4	3
7678		SVTO	03	02	1010	S15	E01	03	2.5		A	HA	30	2	1	2
7678		RAMY	03	02	1223	S14	E01	03	2.6		A	HA	20	2	2	4
7678		BOUL	03	02	1453	S14	E01	03	2.7		A	HR	20	3	1	2
7678	28062	MWIL	03	02	1545	S14	W01	03	2.6	5	(AP)					
7678		HOLL	03	02	1841	S15	W02	03	2.6		A	HA	40	3	2	2
7678		PALE	03	02	2109	S15	W04	03	2.6		A	HS	30	3	2	4
7678		LEAR	03	03	0016	S14	W05	03	2.6		A	HS	30	4	2	5
7678		RAMY	03	03	1241	S15	W12	03	2.6		A	HA	10	2	2	3
7678	28062	MWIL	03	03	1530	S14	W14	03	2.6	5	(AP)					
7678		BOUL	03	03	1532	S12	W12	03	2.7		B	CRO	10	3	4	3
7678		PALE	03	03	2310	S15	W18	03	2.6		A	HS	20	1	1	3
7678		LEAR	03	04	0030	S13	W19	03	2.6		A	HA	10	2	2	3
7678		RAMY	03	04	1225	S15	W24	03	2.7		A	AX	10	3	2	2
7678		BOUL	03	04	1538	S11	W20	03	3.1		B	BXO	10	3	14	3
7678		HOLL	03	04	1845	S14	W29	03	2.6		A	AX	10	1	1	2
7678	28062	MWIL	03	04	2100	S14	W31	03	2.5	3	(AP)					
7678		SVTO	03	05	0735	S11	W30	03	3.0		B	BXO	20	5	3	3
7686	28070	MWIL	03	05	1700	N09	W28	03	3.6	3	(AP)					
7686		LEAR	03	06	0030	N08	W33	03	3.5		B	CAO	20	3	3	3
7686		SVTO	03	06	0925	N08	W38	03	3.5		B	CSO	20	2	4	2
7686		BOUL	03	06	1513	N08	W41	03	3.5		B	BXO	20	5	4	3
7686		RAMY	03	06	1542	N09	W42	03	3.5		B	CRO	20	6	4	2
7686		HOLL	03	06	1833	N08	W42	03	3.6		B	CRO	40	5	6	3
7686		PALE	03	06	2254	N08	W46	03	3.5		B	DSO	40	9	4	3
7686		SVTO	03	07	0830	N09	W50	03	3.6		B	CAO	60	4	5	3
7686		RAMY	03	07	1242	N08	W53	03	3.5		B	BXO	20	7	6	4
7686		HOLL	03	07	1610	N08	W55	03	3.6		B	BXO	20	6	6	3
7686	28070	MWIL	03	07	1615	N07	W57	03	3.4	4	(B)					
7686		LEAR	03	08	0234	N07	W65	03	3.2		B	BXO	30	4	4	3
7686		SVTO	03	08	0740	N09	W65	03	3.4		B	BXO	10	2	3	4
7686		RAMY	03	08	1254	N08	W68	03	3.4		B	BXO	10	2	3	3
7686	28070	MWIL	03	08	1600	N08	W71	03	3.3	4	(AP)					
7686		SVTO	03	09	0745	N09	W79	03	3.4		B	CAO	30	2	5	3
7686		RAMY	03	09	1233	N08	W79	03	3.6		B	BXO	10	2	3	3
7686	28070	MWIL	03	09	1530	N07	W84	03	3.3	3	AP					

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

MARCH 1994

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo	Day	(UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7686A	28069	MWIL	03	04	2100	S07	W04	03	4.6	2	B)					
7686A	28069	MWIL	03	05	1700	S06	W15	03	4.6	4	(B)					
7680		RAMY	02	26	1300	S13	E81	03	4.6		A	AX	10	1		3
7680		HOLL	02	26	1537	S13	E80	03	4.7		A	AX		1		3
7680	28065	MWIL	02	26	1735	S13	E80	03	4.8	4	(AP)					
7680		LEAR	02	27	0030	S12	E76	03	4.7		B	CAO	90	5	5	3
7680		SVTO	02	27	0800	S13	E74	03	4.9		B	CAO	90	6	4	3
7680		RAMY	02	27	1236	S12	E69	03	4.7		B	CAO	100	9	4	3
7680		HOLL	02	27	1517	S12	E68	03	4.7		B	DSO	100	6	4	3
7680	28065	MWIL	02	27	1545	S12	E69	03	4.8	4	(B)					
7680		BOUL	02	27	1615	S12	E70	03	4.9		B	CAO	120	6	3	3
7680		LEAR	02	28	0138	S12	E66	03	5.0		B	DSO	130	13	7	3
7680		SVTO	02	28	0710	S13	E61	03	4.9		B	CAO	240	8	6	2
7680		RAMY	02	28	1241	S12	E57	03	4.8		B	DAO	160	12	6	3
7680	28065	MWIL	02	28	1545	S11	E56	03	4.9	4	(B)					
7680		LEAR	03	01	0447	S13	E50	03	5.0		B	DRO	90	8	6	3
7680		SVTO	03	01	1010	S13	E45	03	4.8		B	CAI	180	17	5	2
7680		RAMY	03	01	1315	S12	E45	03	4.9		B	DAO	110	16	5	4
7680	28065	MWIL	03	01	1530	S11	E44	03	4.9	4	(B)					
7680		HOLL	03	01	1535	S12	E42	03	4.8		B	DAO	100	19	5	3
7680		BOUL	03	01	1650	S11	E42	03	4.9		B	DRO	70	12	5	2
7680		LEAR	03	02	0210	S09	E38	03	4.9		B	CRI	80	21	5	3
7680		SVTO	03	02	1010	S11	E31	03	4.7		B	DAO	130	22	5	2
7680		RAMY	03	02	1223	S11	E32	03	4.9		B	DAO	70	21	6	4
7680		BOUL	03	02	1453	S11	E30	03	4.9		B	DRI	80	13	4	2
7680	28065	MWIL	03	02	1545	S12	E30	03	4.9	5	(D)					
7680		HOLL	03	02	1841	S12	E29	03	5.0		B	DRO	80	18	5	2
7680		PALE	03	02	2109	S12	E27	03	4.9		B	DAO	50	19	3	4
7680		LEAR	03	03	0016	S12	E26	03	5.0		B	DRI	40	26	4	5
7680		RAMY	03	03	1241	S11	E18	03	4.9		B	DAI	30	7	4	3
7680	28065	MWIL	03	03	1530	S12	E17	03	4.9	4	(B)					
7680		BOUL	03	03	1532	S10	E17	03	4.9		B	DRI	30	11	3	3
7680		PALE	03	03	2310	S12	E13	03	4.9		B	BXO	30	6	3	3
7680		LEAR	03	04	0030	S12	E13	03	5.0		B	DAO	60	10	6	3
7680		RAMY	03	04	1225	S12	E07	03	5.0		A	AX	10	3	2	2
7680		BOUL	03	04	1538	S11	E04	03	4.9		B	BXO	10	5	3	3
7680		HOLL	03	04	1845	S12	E02	03	4.9		B	BXO	10	2	4	2
7680	28065	MWIL	03	04	2100	S12	E01	03	4.9	3	(B					
7680		LEAR	03	05	0020	S10	W03	03	4.8		B	BXO	20	8	9	4
7680		SVTO	03	05	0735	S09	W05	03	4.9		B	BXO	10	2	2	3
7680		BOUL	03	05	1449	S09	W11	03	4.8		B	BXO	30	5	7	1
7680		SVTO	03	06	0925	S12	W20	03	4.9		B	BXO	10	3	3	2
7680		RAMY	03	06	1542	S09	W19	03	5.2		B	BXO	10	3	2	2
7680		HOLL	03	06	1833	S11	W26	03	4.8		B	BXO	10	2	2	3
7684		LEAR	03	03	0016	S08	E38	03	5.9		B	BXO		7	3	5
7684		RAMY	03	03	1241	S09	E32	03	5.9		B	CAO	20	8	5	3
7684	28068	MWIL	03	03	1530	S10	E30	03	5.9	5	(B)					
7684		BOUL	03	03	1532	S09	E30	03	5.9		B	BXO	20	6	4	3
7684		PALE	03	03	2310	S10	E26	03	5.9		B	BXO	60	7	6	3
7684		LEAR	03	04	0030	S09	E25	03	5.9		B	BXO	70	5	5	3
7684		RAMY	03	04	1225	S09	E17	03	5.8		B	BXO	10	2	5	2
7684		BOUL	03	04	1538	S09	E15	03	5.8		B	BXO	10	2	5	3
7684		HOLL	03	04	1845	S10	E18	03	6.1		B	BXO	20	3	5	2
7684	28068	MWIL	03	04	2100	S09	E10	03	5.6	4	(AP)					
7684		LEAR	03	05	0020	S09	E08	03	5.6		A	AX	10	3	2	4
7684		SVTO	03	05	0735	S09	E04	03	5.6		A	AX	10	2	1	3
7684		BOUL	03	05	1449	S09	W01	03	5.5		A	AX	10	2		1
7684	28068	MWIL	03	05	1700	S09	W01	03	5.6	3	(AP)					
7684		LEAR	03	06	0030	S09	W02	03	5.9		A	AX	10	3	2	3
7684		SVTO	03	06	0925	S08	W07	03	5.9		B	BXO	10	3	5	2
7684		BOUL	03	06	1513	S07	W12	03	5.7		B	BXO	10	2	1	3
7684		RAMY	03	06	1542	S09	W12	03	5.7		B	BXO	10	3	2	2
7684		HOLL	03	06	1833	S08	W12	03	5.9		B	BXO	10	4	5	3
7684		PALE	03	06	2254	S09	W15	03	5.8		B	BXO	20	6	5	3
7684		SVTO	03	07	0830	S09	W21	03	5.8		B	CAO	30	3	3	3
7684		RAMY	03	07	1242	S08	W23	03	5.8		B	CRO	10	2	3	4

SUNSPOT GROUPS
(Ordered by Central Meridian Passage Date)

MARCH 1994

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo	Day	(UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7684		HOLL	03	07	1610	S08	W28	03	5.6		A	AX	10	1	1	3
7684	28068	MWIL	03	07	1615	S08	W27	03	5.6	4	(AP)					
7684		LEAR	03	08	0234	S08	W34	03	5.5		A	AX	10	1	1	3
7684		SVTO	03	08	0740	S07	W37	03	5.5		A	AX		1		4
7684		RAMY	03	08	1254	S08	W39	03	5.6		A	AX		1		3
7684	28068	MWIL	03	08	1600	S08	W41	03	5.6	4	(AP)					
7684		SVTO	03	09	0745	S08	W47	03	5.8		B	CAO	20	3	1	3
7684		RAMY	03	09	1233	S09	W50	03	5.8		B	CRO	20	5	4	3
7684	28068	MWIL	03	09	1530	S08	W51	03	5.8	4	(B)					
7684		BOUL	03	09	1549	S08	W51	03	5.8		B	BXO	20	3	3	2
7684		HOLL	03	09	2109	S09	W54	03	5.8		B	BXO	30	4	4	3
7684		LEAR	03	10	0015	S09	W56	03	5.8		B	BXO	20	3	4	3
7684		SVTO	03	10	0705	S08	W60	03	5.8		B	DAO	20	2	5	4
7684		RAMY	03	10	1211	S08	W62	03	5.8		B	BXO	10	2	3	3
7684	28068	MWIL	03	10	1530	S08	W66	03	5.7	4	(B)					
7684		BOUL	03	10	1542	S08	W66	03	5.7		B	BXO	20	3	3	2
7684		HOLL	03	10	1550	S08	W67	03	5.6		B	BXO	10	2	4	3
7684		PALE	03	10	1950	S08	W69	03	5.6		A	AX	30	2	2	3
7684		LEAR	03	11	0033	S08	W69	03	5.8		B	BXO	30	2	2	3
7685		LEAR	03	05	0020	S07	E37	03	7.8		B	BXO	10	4	4	4
7685		SVTO	03	05	0735	S08	E32	03	7.7		B	DAO	40	10	5	3
7685		BOUL	03	05	1449	S07	E27	03	7.6		B	BXI	30	6	6	1
7685	28071	MWIL	03	05	1700	S08	E26	03	7.6	4	(B)					
7685		LEAR	03	06	0030	S08	E22	03	7.7		B	DAO	90	9	9	3
7685		SVTO	03	06	0925	S08	E17	03	7.7		B	DAO	90	12	6	2
7685		BOUL	03	06	1513	S08	E14	03	7.7		B	CAO	90	15	6	3
7685		RAMY	03	06	1542	S08	E14	03	7.7		B	CAO	110	13	8	2
7685		HOLL	03	06	1833	S08	E12	03	7.7		B	CSI	100	18	6	3
7685		PALE	03	06	2254	S08	E10	03	7.7		B	DAO	80	20	6	3
7685		SVTO	03	07	0830	S08	E05	03	7.7		B	DAI	180	17	8	3
7685		RAMY	03	07	1242	S08	E02	03	7.7		B	DAI	90	25	7	4
7685		HOLL	03	07	1610	S08	E00	03	7.7		B	CAO	50	16	7	3
7685	28071	MWIL	03	07	1615	S07	W00	03	7.7	5	(B)					
7685		LEAR	03	08	0234	S08	W06	03	7.6		B	CAO	80	16	7	3
7685		SVTO	03	08	0740	S07	W08	03	7.7		B	DAO	70	14	8	4
7685		RAMY	03	08	1254	S08	W11	03	7.7		B	CAO	50	13	7	3
7685	28071	MWIL	03	08	1600	S08	W13	03	7.7	5	(B)					
7685		SVTO	03	09	0745	S07	W23	03	7.6		B	DRO	110	14	7	3
7685		RAMY	03	09	1233	S08	W25	03	7.6		B	CAO	110	17	7	3
7685	28071	MWIL	03	09	1530	S08	W26	03	7.7	5	(B)					
7685		BOUL	03	09	1549	S07	W27	03	7.6		B	DAI	90	22	6	2
7685		HOLL	03	09	2109	S08	W29	03	7.7		B	DAO	90	8	6	3
7685		LEAR	03	10	0015	S09	W31	03	7.7		B	DAO	120	7	7	3
7685		SVTO	03	10	0705	S07	W35	03	7.7		B	DAO	70	14	7	4
7685		RAMY	03	10	1211	S08	W38	03	7.6		B	CSO	70	13	7	3
7685	28071	MWIL	03	10	1530	S08	W39	03	7.7	5	(B)					
7685		BOUL	03	10	1542	S07	W36	03	7.9		B	DAO	60	11	10	2
7685		HOLL	03	10	1550	S09	W41	03	7.6		B	CSO	60	10	7	3
7685		PALE	03	10	1950	S08	W43	03	7.6		B	DAO	50	12	7	3
7685		LEAR	03	11	0033	S08	W43	03	7.8		B	CSO	80	8	6	3
7685		SVTO	03	11	0705	S07	W48	03	7.7		B	CAO	40	8	6	4
7685		RAMY	03	11	1226	S08	W50	03	7.8		B	CAO	80	10	8	3
7685		HOLL	03	11	1537	S08	W52	03	7.7		B	CAO	50	5	6	3
7685		BOUL	03	11	1546	S08	W53	03	7.7		B	CAO	50	5	7	2
7685	28071	MWIL	03	11	1630	S08	W54	03	7.6	4	(B)					
7685		LEAR	03	12	0010	S08	W58	03	7.6		B	CSO	60	9	6	4
7685		SVTO	03	12	0910	S07	W64	03	7.6		B	DAO	60	5	5	3
7685		RAMY	03	12	1316	S08	W65	03	7.7		B	CAO	140	8	6	4
7685		HOLL	03	12	1630	S07	W68	03	7.6		B	CSO	50	6	5	3
7685	28071	MWIL	03	12	1645	S08	W66	03	7.7	4	(AP)					
7685		PALE	03	12	2040	S07	W73	03	7.4		B	CSO	100	2	8	1
7685		LEAR	03	13	0011	S09	W70	03	7.7		B	DSO	20	3	4	3
7685		SVTO	03	13	0815	S07	W75	03	7.7		A	AX	10	2	2	3
7685		RAMY	03	13	1410	S09	W77	03	7.8		A	HA	20	1	2	2
7685		BOUL	03	13	1537	S07	W81	03	7.6		B	CSO	70	3	4	3
7685	28071	MWIL	03	13	1545	S08	W78	03	7.8	4	(AP)					
7685		HOLL	03	13	1745	S07	W80	03	7.7		B	BXO	90	6	11	3
7685		PALE	03	13	2000	S09	W80	03	7.8		A	AX	30	2	1	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo	Day	(UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7687		SVTO	03	06	0925	N17	E23	03	8.1		B	CRO	30	8	3	2
7687		BOUL	03	06	1513	N18	E22	03	8.3		B	BXO	30	10	4	3
7687		RAMY	03	06	1542	N18	E22	03	8.3		B	CRO	40	14	5	2
7687		HOLL	03	06	1833	N17	E19	03	8.2		B	BXO	40	10	5	3
7687		PALE	03	06	2254	N17	E16	03	8.2		B	DAO	40	12	5	3
7687		SVTO	03	07	0830	N18	E11	03	8.2		B	DSO	50	4	5	3
7687		RAMY	03	07	1242	N17	E10	03	8.3		B	DAO	60	11	6	4
7687		HOLL	03	07	1610	N18	E07	03	8.2		B	BXO	30	14	7	3
7687	28072	MWIL	03	07	1615	N17	E07	03	8.2	5	(B)					
7687		LEAR	03	08	0234	N18	E01	03	8.2		B	BXO	40	12	7	3
7687		SVTO	03	08	0740	N18	W02	03	8.2		B	DAO	20	9	7	4
7687		RAMY	03	08	1254	N18	W05	03	8.1		B	BXO	20	10	6	3
7687	28072	MWIL	03	08	1600	N18	W06	03	8.2	4	(B)					
7687		SVTO	03	09	0745	N17	W16	03	8.1		B	CRO	30	4	3	3
7687		RAMY	03	09	1233	N18	W19	03	8.1		B	BXO	10	5	2	3
7687	28072	MWIL	03	09	1530	N18	W20	03	8.1	5	(B)					
7687		BOUL	03	09	1549	N17	W21	03	8.1		B	BXO	20	7	4	2
7687		HOLL	03	09	2109	N17	W24	03	8.0		A	AX	10	1	1	3
7687		LEAR	03	10	0015	N17	W27	03	7.9		A	AX	10	1	1	3
7687		SVTO	03	10	0705	N17	W30	03	8.0		A	AX		1		4
7687		RAMY	03	10	1211	N18	W32	03	8.1		A	AX		1		3
7687		LEAR	03	11	0033	N18	W36	03	8.3		A	AX	10	3	4	3
7687		SVTO	03	11	0705	N18	W44	03	7.9		A	AX		1		4
7687		RAMY	03	11	1226	N19	W45	03	8.1		A	AX		1		3
7687		HOLL	03	11	1537	N19	W48	03	8.0		A	AX		1		3
7687		LEAR	03	12	0010	N18	W53	03	8.0		A	AX	10	1	1	4
7687		SVTO	03	12	0910	N18	W57	03	8.0		A	AX		1		3
7690		RAMY	03	12	1316	S15	W48	03	8.9		B	CAO	30	4	3	4
7690		HOLL	03	12	1630	S13	W51	03	8.8		BD	BXO	20	6	5	3
7690		PALE	03	12	2040	S16	W55	03	8.7		B	BXO	40	3	4	1
7690		LEAR	03	13	0011	S15	W55	03	8.8		B	DSO	20	5	6	3
7690		SVTO	03	13	0815	S15	W61	03	8.7		B	BXO	30	6	6	3
7690		RAMY	03	13	1410	S16	W62	03	8.9		B	BXO	10	3	6	2
7690		BOUL	03	13	1537	S15	W62	03	8.9		B	BXO	30	7	8	3
7690		HOLL	03	13	1745	S12	W67	03	8.7		A	AX	20	1	1	3
7690		PALE	03	13	2000	S14	W68	03	8.7		A	AX	10	1	1	2
7690		LEAR	03	14	0040	S15	W69	03	8.8		B	BXO	20	3	4	3
7689		SVTO	03	11	0705	S11	W28	03	9.2		A	AX		1		4
7689		RAMY	03	11	1226	S11	W31	03	9.2		A	AX		1		3
7689		HOLL	03	11	1537	S11	W34	03	9.1		A	AX	10	1	1	3
7689		BOUL	03	11	1546	S11	W33	03	9.2		A	AX	10	1		2
7689		LEAR	03	12	0010	S12	W41	03	8.9		B	BXO	20	6	4	4
7689		SVTO	03	12	0810	S13	W45	03	8.9		B	BXO	10	4	4	3
7689		RAMY	03	12	1316	S10	W47	03	9.0		A	AX	10	2	1	4
7689	28074	MWIL	03	12	1645	S15	W50	03	8.9	4	(B)					
7689		PALE	03	12	2040	S11	W50	03	9.1		B	BXO	20	2	3	1
7689		LEAR	03	13	0011	S15	W55	03	8.8		B	DSO	20	5	6	3
7689		SVTO	03	13	0815	S10	W57	03	9.1		A	AX		1		3
7689		RAMY	03	13	1410	S11	W59	03	9.1		B	BXO	10	3	4	2
7689		BOUL	03	13	1537	S09	W59	03	9.2		B	BXO	10	3	3	3
7689	28074	MWIL	03	13	1545	S11	W65	03	8.8	4	(AP)					
7689		HOLL	03	13	1745	S08	W62	03	9.1		B	BXO	50	5	5	3
7689		PALE	03	13	2000	S10	W62	03	9.2		A	AX	10	1	1	2
7689A		RAMY	03	08	1254	N04	E41	03	11.6		A	AX		1		3
7691		RAMY	03	14	1225	N07	E16	03	15.7		A	AX		2	2	3
7691	28075	MWIL	03	14	1530	N07	E14	03	15.7	4	(B)					
7691		LEAR	03	15	0001	N07	E08	03	15.6		A	AX	10	2	2	2
7691		RAMY	03	15	1240	N07	E01	03	15.6		B	BXO	10	2	3	4
7691		BOUL	03	15	1453	N07	W02	03	15.5		A	AX		1		2
7691		HOLL	03	15	1457	N08	W02	03	15.5		A	AX		1		3
7691	28075	MWIL	03	15	1515	N07	W02	03	15.5	4	(AP)					
7691A		SVTO	03	15	0850	N03	E09	03	16.0		A	AX	10	2	1	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7688		SVTO	03	10	0705	N18	E85	03	16.8		A	AX	20	1	3	4
7688		BOUL	03	10	1542	N19	E79	03	16.7		A	AX	10	1	1	2
7688		HOLL	03	10	1550	N19	E78	03	16.6		A	AX	10	1		3
7688		PALE	03	10	1950	N19	E77	03	16.7		A	AX	30	2	1	3
7688		LEAR	03	11	0033	N19	E72	03	16.5		A	AX	10	1	2	3
7688		SVTO	03	11	0705	N18	E71	03	16.7		B	CRO	40	6	10	4
7688		RAMY	03	11	1226	N18	E66	03	16.5		B	CAO	30	4	7	3
7688		HOLL	03	11	1537	N18	E64	03	16.5		B	CRO	50	4	5	3
7688		BOUL	03	11	1546	N20	E66	03	16.7		B	BXO	40	3	7	2
7688	28073	MWIL	03	11	1630	N19	E61	03	16.3	4	(AP)					
7688		LEAR	03	12	0010	N19	E58	03	16.4		B	CAO	60	7	5	4
7688		SVTO	03	12	0810	N18	E58	03	16.7		B	DAO	150	19	10	3
7688		RAMY	03	12	1316	N18	E53	03	16.6		B	CAO	130	12	8	4
7688		HOLL	03	12	1630	N19	E54	03	16.8		B	CSO	90	16	11	3
7688	28073	MWIL	03	12	1645	N19	E51	03	16.6	4	(B)					
7688		PALE	03	12	2040	N18	E50	03	16.7		B	CAO	100	6	9	1
7688		LEAR	03	13	0011	N18	E45	03	16.4		B	DSO	50	7	8	3
7688		SVTO	03	13	0815	N18	E43	03	16.6		B	DKO	130	12	10	3
7688		RAMY	03	13	1410	N19	E39	03	16.6		B	DAO	120	10	9	2
7688		BOUL	03	13	1537	N19	E37	03	16.5		B	DAO	120	11	7	3
7688	28073	MWIL	03	13	1545	N19	E38	03	16.5	4	(BP)					
7688		HOLL	03	13	1745	N18	E36	03	16.5		B	CAO	120	11	8	3
7688		PALE	03	13	2000	N20	E36	03	16.6		B	DAO	110	10	8	2
7688		LEAR	03	14	0040	N19	E31	03	16.4		B	DAO	100	9	4	3
7688		SVTO	03	14	0721	N18	E30	03	16.6		B	CKO	200	19	9	3
7688		RAMY	03	14	1225	N19	E27	03	16.6		B	CAO	140	12	8	3
7688	28073	MWIL	03	14	1530	N18	E23	03	16.4	5	(BP)					
7688		BOUL	03	14	1550	N19	E25	03	16.6		B	CAO	110	7	7	2
7688		HOLL	03	14	1645	N19	E25	03	16.6		B	CAO	80	12	8	2
7688		LEAR	03	15	0001	N19	E19	03	16.4		B	DAO	110	6	3	2
7688		SVTO	03	15	0850	N18	E20	03	16.9		B	CAO	50	6	3	2
7688		RAMY	03	15	1240	N19	E14	03	16.6		B	CAO	120	10	9	4
7688		BOUL	03	15	1453	N19	E12	03	16.5		B	CSO	90	8	7	2
7688		HOLL	03	15	1457	N19	E14	03	16.7		B	CSO	90	12	9	3
7688	28073	MWIL	03	15	1515	N19	E09	03	16.3	5	(BG)					
7688		SVTO	03	16	0830	N19	E03	03	16.6		B	CAO	130	12	10	3
7688		RAMY	03	16	1430	N19	E00	03	16.6		B	CAO	70	11	9	2
7688	28073	MWIL	03	16	1530	N19	W02	03	16.5	5	(BG)					
7688		HOLL	03	16	1715	N20	W02	03	16.6		B	CAO	100	7	9	3
7688		LEAR	03	17	0423	N19	W10	03	16.4		B	CAO	50	9	8	2
7688		SVTO	03	17	0745	N19	W10	03	16.5		B	DAO	100	12	9	3
7688		RAMY	03	17	1210	N18	W13	03	16.5		B	CAO	50	7	9	4
7688	28073	MWIL	03	17	1500	N19	W16	03	16.4	4	(BP)					
7688		BOUL	03	17	1715	N19	W15	03	16.6		B	CAO	60	7	10	2
7688		HOLL	03	17	1720	N19	W14	03	16.6		B	CAO	90	9	10	3
7688		LEAR	03	18	0031	N18	W24	03	16.2		A	HR	20	6	2	3
7688		SVTO	03	18	0900	N19	W28	03	16.2		A	HR	10	1		2
7688		RAMY	03	18	1239	N19	W29	03	16.3		B	CRO	10	3	2	3
7688	28073	MWIL	03	18	1530	N19	W31	03	16.3	4	(AP)					
7688		BOUL	03	18	1536	N18	W31	03	16.3		B	CRO	10	2	3	2
7688		PALE	03	18	2255	N19	W36	03	16.2		A	AX	60	2	1	2
7688		LEAR	03	19	0020	N19	W36	03	16.3		A	HR	20	3	3	3
7688A	28077	MWIL	03	18	1530	N15	W05	03	18.3	4	(B)					
7688A		BOUL	03	18	1536	N14	W06	03	18.2		B	BXO	10	3	2	2
7688A		PALE	03	18	2255	N14	W10	03	18.2		A	AX	10	2	2	2
7693		SVTO	03	21	1050	N08	W37	03	18.7		B	DSO	50	3	2	3
7693		RAMY	03	21	1226	N09	W36	03	18.8		B	BXO	10	4	2	3
7693	28078	MWIL	03	21	1430	N09	W38	03	18.7	5	(B)					
7693		BOUL	03	21	1528	N09	W38	03	18.8		B	BXO	20	4	3	2
7693		HOLL	03	21	1750	N09	W40	03	18.7		B	CRO	30	4	4	4
7693		LEAR	03	22	0010	N08	W43	03	18.8		B	CAO	70	6	5	3
7693		SVTO	03	22	0810	N08	W48	03	18.7		B	DSO	110	13	6	3
7693		RAMY	03	22	1156	N08	W49	03	18.8		B	BXO	50	16	6	5
7693		BOUL	03	22	1445	N08	W52	03	18.7		B	BXI	50	9	6	2
7693		HOLL	03	22	1608	N08	W52	03	18.8		B	DAO	90	12	6	2
7693		LEAR	03	23	0012	N08	W57	03	18.7		B	CRO	60	9	5	3
7693		SVTO	03	23	0755	N09	W60	03	18.8		B	DAO	60	6	8	3

S U N S P O T G R O U P S
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MARCH 1994

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7693		RAMY	03	23	1214	N08	W64	03	18.7		B	BXO	50	11	7	5
7693		HOLL	03	23	1523	N07	W65	03	18.8		B	DRO	70	4	6	3
7693		LEAR	03	24	0030	N08	W70	03	18.8		B	CRO	50	5	6	3
7693		SVTO	03	24	0825	N07	W79	03	18.4		B	CSO	60	3	3	2
7693		RAMY	03	24	1208	N08	W79	03	18.6		A	HA	20	1	1	5
7693A		RAMY	03	17	1210	N09	E23	03	19.2		A	AX		1		4
7692		RAMY	03	15	1240	N17	E78	03	21.4		A	HS	50	1	2	4
7692		BOUL	03	15	1453	N18	E74	03	21.2		A	HS	40	1	1	2
7692		HOLL	03	15	1457	N17	E78	03	21.5		A	HS	30	1	1	3
7692	28076	MWIL	03	15	1515	N18	E77	03	21.5	5	AP					
7692		SVTO	03	16	0830	N18	E66	03	21.4		A	HS	130	1	2	3
7692		RAMY	03	16	1430	N18	E63	03	21.4		A	HS	40	1	2	2
7692	28076	MWIL	03	16	1530	N18	E63	03	21.4	5	(AP)					
7692		HOLL	03	16	1715	N17	E63	03	21.5		A	HS	90	1	2	3
7692		LEAR	03	17	0423	N21	E56	03	21.5		A	HS	40	1	2	2
7692		SVTO	03	17	0745	N18	E55	03	21.5		A	HS	60	1	2	3
7692		RAMY	03	17	1210	N18	E52	03	21.5		A	HS	40	1	2	4
7692	28076	MWIL	03	17	1500	N19	E50	03	21.4	5	(AP)					
7692		BOUL	03	17	1715	N18	E48	03	21.4		A	HS	50	1	2	2
7692		HOLL	03	17	1720	N17	E49	03	21.4		A	HS	90	1	2	3
7692		LEAR	03	18	0031	N20	E45	03	21.5		A	HS	60	1	2	3
7692		SVTO	03	18	0900	N18	E41	03	21.5		A	HS	60	1	2	2
7692		RAMY	03	18	1239	N18	E39	03	21.5		A	HS	60	1	2	3
7692	28076	MWIL	03	18	1530	N18	E37	03	21.5	5	(AP)					
7692		BOUL	03	18	1536	N18	E36	03	21.4		A	HS	40	1	1	2
7692		PALE	03	18	2255	N19	E33	03	21.5		A	HS	10	1	2	2
7692		LEAR	03	19	0020	N19	E32	03	21.4		A	HS	50	1	2	3
7692		SVTO	03	19	0825	N19	E28	03	21.5		A	HS	100	1	1	2
7692		RAMY	03	19	1232	N18	E26	03	21.5		A	HS	70	1	2	4
7692		BOUL	03	19	1452	N18	E23	03	21.4		A	HS	40	1	1	2
7692		HOLL	03	19	1611	N18	E24	03	21.5		A	HS	40	1	1	2
7692		PALE	03	19	2326	N19	E19	03	21.4		A	HS	30	1	2	2
7692		LEAR	03	20	0012	N18	E19	03	21.4		A	HS	40	1	2	3
7692		SVTO	03	20	0745	N18	E15	03	21.5		A	HS	50	1	1	3
7692		RAMY	03	20	1230	N18	E13	03	21.5		A	HS	30	1	2	3
7692	28076	MWIL	03	20	1500	N18	E11	03	21.5	5	(AP)					
7692		HOLL	03	20	2044	N18	E08	03	21.5		A	HS	40	1	1	1
7692		SVTO	03	21	1050	N18	W02	03	21.3		A	HS	60	2	3	3
7692		RAMY	03	21	1226	N18	E00	03	21.5		A	HS	50	2	2	3
7692	28076	MWIL	03	21	1430	N18	W01	03	21.5	5	(AP)					
7692		BOUL	03	21	1528	N18	W03	03	21.4		A	HS	40	1	1	2
7692		HOLL	03	21	1750	N18	W03	03	21.5		B	CSO	60	2	2	4
7692		LEAR	03	22	0010	N18	W06	03	21.5		B	CSO	30	2	3	3
7692		SVTO	03	22	0810	N17	W10	03	21.6		B	CAO	70	5	5	3
7692		RAMY	03	22	1156	N18	W11	03	21.6		B	CSO	20	4	4	5
7692		BOUL	03	22	1445	N18	W14	03	21.5		B	CSO	20	2	5	2
7692		HOLL	03	22	1608	N18	W14	03	21.6		B	CSO	40	2	4	2
7692		LEAR	03	23	0012	N19	W19	03	21.5		B	CSO	20	3	4	3
7692		SVTO	03	23	0755	N18	W25	03	21.4		B	CSO	40	6	4	3
7692		RAMY	03	23	1214	N18	W25	03	21.6		B	CAO	30	4	4	5
7692		HOLL	03	23	1523	N18	W27	03	21.6		B	CSO	40	4	4	3
7692		LEAR	03	24	0030	N18	W33	03	21.5		B	CAO	30	3	4	3
7692		SVTO	03	24	0825	N17	W38	03	21.5		A	HA	30	1	2	2
7692		RAMY	03	24	1208	N18	W40	03	21.4		A	HA	10	1	1	5
7692		HOLL	03	24	1440	N18	W42	03	21.4		A	HS	20	1	1	3
7692		LEAR	03	25	0015	N18	W48	03	21.3		A	HR	20	1	1	3
7692		SVTO	03	25	0715	N17	W52	03	21.3		A	HA	20	2	1	3
7692		RAMY	03	25	1215	N18	W53	03	21.5		B	CRO	20	2	3	4
7692		BOUL	03	25	1451	N18	W56	03	21.3		A	HR	20	1	1	2
7692		HOLL	03	25	1627	N19	W56	03	21.4		A	HS	10	1	1	2
7692		PALE	03	25	1820	N20	W56	03	21.5		A	AX	20	1	1	3
7692		LEAR	03	26	0030	N18	W60	03	21.4		A	HR	10	1	1	3
7692		SVTO	03	26	0840	N18	W65	03	21.4		A	HS	30	1	2	2
7692		RAMY	03	26	1221	N19	W67	03	21.4		A	HS	20	1	1	3
7692	28076	MWIL	03	26	1615	N17	W68	03	21.5	4	(AP)					
7692		PALE	03	26	1816	N18	W70	03	21.4		A	AX	30	1	1	3
7692		LEAR	03	27	0020	N18	W73	03	21.4		A	AX	10	1	1	3

SUNSPOT GROUPS
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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7692A	28079	MWIL	03 26 1615	S14 W45	03 23.3	3	(AP)					
7696		RAMY	03 24 1208	S18 E25	03 26.4		B	BXO		2	2	5
7696		LEAR	03 25 0015	S18 E18	03 26.4		B	BXO	20	5	3	3
7696		SVTO	03 25 0715	S18 E14	03 26.4		B	DAO	20	8	5	3
7696		RAMY	03 25 1215	S17 E11	03 26.3		B	BXO	20	7	4	4
7696		BOUL	03 25 1451	S16 E08	03 26.2		B	CAO	20	6	4	2
7696		HOLL	03 25 1627	S17 E08	03 26.3		B	BXO	20	7	4	2
7696		LEAR	03 26 0030	S17 E05	03 26.4		B	BXO	10	3	3	3
7696		LEAR	03 28 0035	S13 W27	03 26.0		A	AX		1		3
7696		RAMY	03 28 1132	S17 W28	03 26.3		A	AX		1		4
7696		SVTO	03 30 0715	S16 W55	03 26.1		B	BXO	30	4	3	3
7696		RAMY	03 30 1208	S16 W56	03 26.2		B	BXO	10	3	3	4
7696	28082	MWIL	03 30 1430	S15 W55	03 26.4	4	(AF)					
7696		BOUL	03 30 1532	S16 W56	03 26.4		A	AX	10	2	1	2
7696		PALE	03 30 2145	S15 W60	03 26.4		B	CXO	40	4	3	3
7696		SVTO	03 31 0715	S16 W65	03 26.4		B	DSO	70	7	6	3
7696		RAMY	03 31 1159	S17 W67	03 26.4		B	DSO	70	8	6	5
7696	28082	MWIL	03 31 1430	S16 W69	03 26.4	4	(B)					
7696		PALE	03 31 1735	S18 W68	03 26.5		B	DSO	60	4	4	3
7696		LEAR	04 01 0010	S16 W75	03 26.4		B	CRO	50	4	7	3
7696		SVTO	04 01 0810	S16 W76	03 26.7		B	DSO	50	2	6	3
7696		RAMY	04 01 1209	S16 W80	03 26.5		B	CSO	70	2	5	3
7696	28082	MWIL	04 01 1445	S16 W80	03 26.6	4	X					
7696		PALE	04 01 1740	S17 W79	03 26.8		A	HS	30	1	1	3
7696		HOLL	04 01 2239	S17 W85	03 26.6		A	HS	30	1	1	3
7696A		SVTO	03 23 0755	S09 E51	03 27.1		A	AX	10	1		3
7694		LEAR	03 24 0030	N11 E58	03 28.4		B	BXO	20	2	3	3
7694		SVTO	03 24 0825	N12 E52	03 28.3		B	CAO	30	3	4	2
7694		RAMY	03 24 1208	N10 E50	03 28.3		B	CRO	10	4	4	5
7694		HOLL	03 24 1440	N11 E46	03 28.1		A	HS		1	1	3
7694		LEAR	03 25 0015	N10 E43	03 28.2		B	BXO	20	3	4	3
7694		SVTO	03 25 0715	N10 E39	03 28.2		B	CAO	10	2	4	3
7694		RAMY	03 25 1215	N10 E36	03 28.2		B	BXO	20	5	5	4
7694		BOUL	03 25 1451	N10 E32	03 28.0		B	BXO	10	4	4	2
7694		HOLL	03 25 1627	N10 E33	03 28.2		B	BXO	10	4	5	2
7694		PALE	03 25 1820	N09 E34	03 28.3		B	BXO	20	5	5	3
7694		LEAR	03 26 0030	N10 E28	03 28.1		B	BXO	30	5	6	3
7694		SVTO	03 26 0840	N11 E24	03 28.2		B	CRO	20	4	5	2
7694		RAMY	03 26 1221	N11 E22	03 28.2		B	BXO	10	4	5	3
7694	28080	MWIL	03 26 1615	N10 E20	03 28.2	4	(B)					
7694		PALE	03 26 1816	N10 E19	03 28.2		B	BXO	10	2	3	3
7694		HOLL	03 26 1850	N09 E17	03 28.1		B	BXO	10	2	2	1
7694		LEAR	03 27 0020	N11 E15	03 28.1		A	AX	10	1	1	3
7694	28080	MWIL	03 27 1530	N09 E07	03 28.2	3	(AP)					
7695		SVTO	03 24 0825	S16 E70	03 29.6		B	CSO	30	3	4	2
7695		RAMY	03 24 1208	S17 E69	03 29.7		B	CRO	30	2	5	5
7695		HOLL	03 24 1440	S17 E64	03 29.5		B	BXO	10	3	6	3
7695		LEAR	03 25 0015	S15 E59	03 29.5		A	AX	20	2	1	3
7695		SVTO	03 25 0715	S16 E53	03 29.3		A	HR	20	3	2	3
7695		RAMY	03 25 1215	S16 E52	03 29.4		B	BXO	20	5	4	4
7695		BOUL	03 25 1451	S16 E47	03 29.2		B	CSO	20	3	2	2
7695		HOLL	03 25 1627	S16 E46	03 29.2		B	BXO	20	6	3	2
7695		PALE	03 25 1820	S18 E48	03 29.4		B	BXO	30	3	3	3
7695		LEAR	03 26 0030	S15 E46	03 29.5		B	BXO	20	3	3	3
7695		SVTO	03 26 0840	S15 E39	03 29.3		A	HR	20	2	2	2
7695		RAMY	03 26 1221	S16 E37	03 29.3		B	BXO	20	6	3	3
7695	28081	MWIL	03 26 1615	S16 E35	03 29.3	5	(B)					
7695		PALE	03 26 1816	S17 E35	03 29.4		B	BXO	20	3	3	3
7695		HOLL	03 26 1850	S17 E35	03 29.4		B	CSO	20	3	4	1
7695		LEAR	03 27 0020	S16 E32	03 29.4		B	CRO	30	3	4	3
7695		RAMY	03 27 1216	S17 E24	03 29.3		B	CAO	30	11	7	3
7695	28081	MWIL	03 27 1530	S16 E22	03 29.3	4	(B)					
7695		HOLL	03 27 1615	S16 E23	03 29.4		B	CAO	40	10	7	3
7695		PALE	03 27 2103	S17 E21	03 29.5		B	CRO	30	12	6	3
7695		LEAR	03 28 0035	S16 E18	03 29.4		B	DRO	70	14	7	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7695		SVTO	03	28	0630	S16	E15	03	29.4		B	DAO	60	8	6	3
7695		RAMY	03	28	1132	S17	E13	03	29.5		B	CAO	30	10	7	4
7695	28081	MWIL	03	28	1430	S16	E11	03	29.4	5	(B)					
7695		BOUL	03	28	1541	S16	E11	03	29.5		B	CRO	30	5	6	2
7695		PALE	03	28	1810	S16	E08	03	29.4		B	CSO	50	17	7	4
7695		HOLL	03	28	1840	S16	E09	03	29.5		B	DAO	70	7	7	3
7695		LEAR	03	29	0030	S17	E05	03	29.4		B	CAO	90	16	9	3
7695		SVTO	03	29	0700	S15	E02	03	29.4		B	DAO	70	15	7	3
7695		RAMY	03	29	1140	S17	W02	03	29.3		B	DAO	50	10	8	4
7695	28081	MWIL	03	29	1430	S16	W03	03	29.4	5	(B)					
7695		HOLL	03	29	2002	S16	W07	03	29.3		B	CSO	40	10	7	3
7695		SVTO	03	30	0715	S16	W14	03	29.2		B	CAO	70	13	8	3
7695		RAMY	03	30	1208	S15	W17	03	29.2		A	AX	10	5	2	4
7695		HOLL	03	30	1357	S13	W18	03	29.2		B	BXO		2	2	1
7695	28081	MWIL	03	30	1430	S15	W16	03	29.4	4	(B)					
7695		BOUL	03	30	1532	S16	W15	03	29.5		B	BXO	20	5	8	2
7695		PALE	03	30	2145	S17	W14	03	29.8		B	BXO	10	3	8	3
7695		RAMY	03	31	1159	S15	W28	03	29.4		A	AX		1		5
7695	28081	MWIL	03	31	1430	S15	W32	03	29.2	3	(AP)					
7697		SVTO	03	25	0715	N10	E67	03	30.3		A	AX		1		3
7697		RAMY	03	28	1132	N07	E24	03	30.3		A	AX		1		4
7697		RAMY	03	30	1208	N12	W01	03	30.4		B	BXO		1		4
7697		RAMY	03	31	1159	N11	W14	03	30.4		A	AX		1		5
7697		SVTO	04	01	0810	N10	W24	03	30.6		A	AX		1		3
7697A		HOLL	03	29	2002	S14	E12	03	30.7		A	AX		1		3
7698		HOLL	03	29	2002	S17	E18	03	31.2		A	AX		2	1	3
7698		SVTO	03	30	0715	S16	E11	03	31.1		B	DRO	20	3	3	3
7698		RAMY	03	30	1208	S16	E09	03	31.2		B	CAO	20	8	3	4
7698		HOLL	03	30	1357	S15	E07	03	31.1		B	CRO	30	6	5	1
7698	28083	MWIL	03	30	1430	S16	E07	03	31.1	4	(B)					
7698		BOUL	03	30	1532	S15	E06	03	31.1		B	CSO	30	8	4	2
7698		PALE	03	30	2145	S15	E05	03	31.3		B	BXO	20	4	3	3
7698		SVTO	03	31	0715	S17	W02	03	31.1		B	DSO	80	9	5	3
7698		RAMY	03	31	1159	S16	W05	03	31.1		B	DRO	50	17	5	5
7698	28083	MWIL	03	31	1430	S16	W06	03	31.1	4	(B)					
7698		PALE	03	31	1735	S17	W07	03	31.2		B	BXO	30	8	6	3
7698		LEAR	04	01	0010	S16	W12	03	31.1		B	BXO	20	6	5	3
7698		SVTO	04	01	0810	S16	W16	03	31.1		B	CSO	20	3	4	3
7698		RAMY	04	01	1209	S16	W18	03	31.1		B	CRO	10	5	5	3
7698	28083	MWIL	04	01	1445	S15	W18	03	31.2	4	(AF)					
7698		PALE	04	01	1740	S16	W20	03	31.2		A	AX	10	4	2	3
7698		BOUL	04	01	1836	S15	W19	03	31.3		A	AX	10	3	1	2
7698		LEAR	04	02	0023	S14	W23	03	31.3		A	AX	10	2	2	3

Stations reporting:

BOUL = Boulder
CULG = Culgoora
HOLL = Holloman
LEAR = Learmonth
MWIL = Mt. Wilson
PALE = Palehua
RAMY = Ramey
SVTO = San Vito

SUDDEN IONOSPHERIC DISTURBANCES

MARCH 1994

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type SWF	SEA	SPA	LF-SPA	SES	Flare (UT)	X-ray Class	NOAA Region
01	1853	1857	2035	1	1					1	No flare		
01	1951	1954	2011	1-	3					3	1951	B9.9	7680
01	2224	2232	2315	1-	5			1		5	2220	C3.6	7680
02	1045	1055	1118	1	1		1				*		
02	1205	1245	1310	1	1		1				No flare		
02	2205	2207	2217	1-	3					3	2205	B4.5	7682
02	2306	2312	2336	1-	5			1		1	2306	C1.7	7682
03	0208	0216	0305	2-	3	1		1			0208	C6.2	7682
03	0336	0346	0403	1-	1			1			0337	C1.3	7682
03	1135	1138U	1158	1	1					1	1136	C3.2	7682
03	1238	1240	1250	1-	5			2		4	1241	C1.2	
03	1310	1317	1338	1-	5		1	2		6	1307	C6.4	7682
03	1429	1433	1451	1	5					4	*		
03	1505	1530	1530D	1	1					1	1502	B5.9	
03	1612	1618	1635	1-	5					6	1610	C1.5	
03	1806	1817	1856	1	5					2	1809	C1.6	7682
03	2011	2014	2027	1-	3					2	2012	C1.2	
03	2102	2104	2130	1+	1					1	2102	C1.2	7682
03	2216	2217	2227	1-	1					1	2214	C1.1	
04	0147	0152	0208D	1-	1			1			0139	C1.8	7682
04	0206	0216	0238D	1-	1			1			No flare		
04	0238E	0245	0259	1-	1			1			0238	C1.3	7682
04	0302	0306	0315D	1-	1			1			0301	C1.6	7682
04	0315E	0325	0358	1-	1			1			0313	C3.6	
04	0611	0617	0630	1-	1			1			0609	C1.1	7682
04	0648	0700	0736	2-	1			1			0644	C5.8	7682
04	0829	0834	0844	1-	1					1	0829	B9.8	
04	0920	0939	1027	1+	5		1	1		1	0914	C3.6	
04	1052	1058	1116	1-	1			1			1053E	C2.3	7682
04	1229	1304	1404	1	1		1				1218	C1.2	7682
04	1501	1504	1513	1-	1					1	1502	B6.4	
04	1619	1624	1635	1-	5					4	1616	B4.4	
04	1730	1801	1824D	2+	1					1	1748	B4.0	
04	1838	1853	1910	1+	3					2	1853	B5.0	
04	1901	1904	1928	1-	5					3	1902	C1.3	7682
04	2047	2051	2105	1-	5					3	2047	C1.7	7682
04	2118	2120	2131	1-	3					2	2118	B6.2	7682
04	2251	2253	2304	1-	3					2	2251	B5.9	
05	1308	1337	1357	1	1		1				No flare		
06	0815	0816	0824	1-	1					1	0815	B8.3	
06	1232	1235	1251	1-	5		1			4	1233	C2.3	
06	1400	1417U	1517	1	1		1				No flare		
06	1559	1601	1625	1+	1					1	1553	B5.7	7685
07	1809	1825	1910	1	1					1	No flare		
07	2108	2115	2124D	1-	1					1	*		
07	2124	2132	2208	2-	5					4	2127	B3.2	
08	0840	0920	0943	1+	3		2				No flare		
08	1147	1202	1236	2+	3		2				No flare		
08	1326	1342	1420	1	1		1				1211	B3.5	
08	2140	2153	2236	1	1					1	*		
09	0856	0910	1110	3	1		1				0856		7686
09	1044	1112	1145	1	1		1				No flare		
09	1312	1345	1517	1	1		1				No flare		
09	1855	1859	1915	1	1					1	1851	B5.2	
09	2135	2141	2200	1-	5			1		2	2133	B7.7	
10	0900E	0906	0920	1	1					1	0847	B7.0	
10	2240	2245	2300	1	1					1	2234	B2.6	

* = no flare patrol.

MARCH 1994

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type SWF	SEA	SPA	LF-SPA	SES	Flare (UT)	X-ray Class	NOAA Region
12	0710	0745	0759	1-	5			1		1	0736	C1.1	
13	0802	0808U	0850	1	1		1				*		
13	0947	1007	1117	1	3		2				*		
13	1318	1325	1333	1-	1					1	1322		7688
21	0940	1002	1053	1	1		1				No flare		
24	1650	1700	1726	2	1					1	1650	B5.6	
24	2205	2221	2256	1-	5			1		2	2200	C3.6	
25	1101	1114	1133	2-	3		3				No flare		
26	1455	1500	1529	2-	3					2	1448	B3.8	
27	1241	1313U	1411	1	1		1				No flare		
30	0806	0811	0833	1-	5		1	1		1	0805	C1.9	7697
30	1742	1745	1815	1+	1					1	1737		7696
31	1015	1028	1044	1	3		2				No flare		
31	1322	1332	1348	1	5					2	1322	B2.8	

* = no flare patrol.

OBSERVATORIES REPORTING FOR MARCH 1994

Amherst, New Hampshire, USA	SES	Madison, Wisconsin, USA	SES
Boksburg; Rep of S. Africa	SES	Manahawkin, New Jersey, USA	SES
Brazilian Antarctic Station	SPA, SES	Maui, Hawaii, USA	SWF
Cambridge, England, UK	SES	McDonough, Georgia, USA	SES
Cranford, New Jersey, USA	SES	Nampa, Idaho, USA	SES
Durham, New Hampshire, USA	SES	Nerja, Spain	SES
Fort Wayne, Indiana, USA	SES	Rimavska Sobota, Slovakia	SEA
Gettysburg, Pennsylvania, USA	SES	Rochester, New Hampshire, USA	SES
Hiraiso, Japan	SWF	Tucson, Arizona, USA	SES
Houston, Texas, USA	SES	Upice, Slovakia	SEA
Hudson, Ohio, USA	SES	Wellington, Ohio, USA	SES
Inubo, Japan	SPA	Windsor Locks, Connecticut, USA	SES
Itapetinga, Brazil	SPA, SES	Ziar nad Hronom, Slovakia	SEA
LaCrescenta, California, USA	SES	Zilina, Slovakia	SEA

Observations are not necessarily continuous.

S O L A R R A D I O E M I S S I O N
Spectral Observations

MARCH 1994

Day	Observation Start (UT)	Observation End (UT)	Sta	Decimetric Band Start (UT)	Decimetric Band End (UT)	Decimetric Band Int (1-3)	Metric Band Start (UT)	Metric Band End (UT)	Metric Band Int (1-3)	Dekametric Band Start (UT)	Dekametric Band End (UT)	Dekametric Band Int (1-3)	Spectral Type
01	0700	1200	IZMI										
	0723	1528	ONDR										
	0700	1500	POTS				1453.3	1457.7	1				IIIG
02	0653	1531	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS										
03	0651	1532	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS										
04	0649	1536	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS										
05	0700	1200	IZMI										
	0646	1537	ONDR				1242.1	1242.6	2				IIIGG
			SGMR				1457.0	1457.0	1				III
			LEAR				2337.0	2337.0	3				III
			PALE				2338.0	2338.0	2				III
			PALE				2346.0	2347.0	1				III
			LEAR				2348.0	2349.0	1				III
06			LEAR				0006.0	0009.0	2				III
			PALE				0007.0	0008.0	2				III
			LEAR				0020.0	0020.0	2				III
			LEAR				0317.0	0318.0	2				III
			PALE				0317.0	0318.0	1				III
			LEAR				0530.0	0530.0	2				III
			LEAR				0639.0	0639.0	2				III
			SVTO				0639.0	0639.0	1				III
	0644	1537	ONDR										
	0700	1200	IZMI				0819.2	0819.6	2				IIIG
07	0642	1539	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS										
08	0640	1543	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS				0811.5	0838.0	1				I,S
			POTS				1020.0	1025.0	1				I,S
			POTS				1143.0	1144.0	1				I,S
09	0637	1543	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS				0709.0	0723.0	1				I,S
			POTS				0951.4	0951.5	1				IIIG
			POTS				0954.0	1246.0	1				I,S
			SGMR				1536.0	1536.0	1				III
10	0635	1546	ONDR										
	0700	1200	IZMI				0700.0E	0940.0	1				IS
	0700	1500	POTS				0700.0E	0940.0	1				I,S
11	0633	1546	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS										
			PALE				1831.0	1832.0	1				III
			SGMR				2015.0	2022.0	2				III
			PALE				2016.0	2023.0	1				V
12			LEAR				0010.0	0013.0	3				III
			PALE				0011.0	0014.0	2				III
			LEAR				0409.0	0413.0	1				III
			LEAR				0537.0	0539.0	1				III
	0630	1549	ONDR										
			LEAR				0818.0	0818.0	1				III

SOLAR RADIO EMISSION
Spectral Observations

MARCH 1994

Day	Observation Start (UT)	Observation End (UT)	Sta	Decimetric Band Start (UT)	Decimetric Band End (UT)	Decimetric Band Int (1–3)	Metric Band Start (UT)	Metric Band End (UT)	Metric Band Int (1–3)	Dekametric Band Start (UT)	Dekametric Band End (UT)	Dekametric Band Int (1–3)	Spectral Type
12			SVTO				0818.0	0837.0	1				S
	0700	1200	IZMI				0818.1	0818.6	2				IIIG,V
	0700	1200	IZMI				0837.3	0838.2	2				IIIG
	0700	1200	IZMI				1027.9	1028.0	1				III
	0700	1200	IZMI				1033.6	1033.7	1				III
			SGMR				1258.0	1259.0	1				III
			SVTO				1259.0	1259.0	2				III
			SGMR				1541.0	1542.0	1				III
			SVTO				1541.0	1542.0	2				III
			SGMR				1915.0	1915.0	1				III
13	0628	1551	ONDR										
	0700	1200	IZMI										
14	0626	1554	ONDR										
	0700	1500	POTS				0730.0U	0810.0	1				I,S
			POTS				0847.0	0857.0	1				I,S
			POTS				0938.0	1410.0	1				I,S
	0700	1200	IZMI				0941.0	1013.0	1				IN
			SVTO				1407.0	1407.0	3				III
			POTS				1427.1	1428.0	1				IIIG
			PALE				2040.0	2040.0	1				III
			SGMR				2041.0	2041.0	1				III
			PALE				2127.0	2127.0	1				III
			PALE	2153.0	2153.0	1							III
15			LEAR				0617.0	0618.0	2				III
	0624	1556	ONDR										
	0700	1500	POTS				0750.0	0800.0U	1				I,S
			POTS				0753.5	0753.6	1				IIIG
	0700	1200	IZMI				0902.4	0902.5	2				III
			POTS				0902.4	0902.6	1				IIIB
			POTS				1136.4	1136.6	1				IIIG
	0700	1200	IZMI				1148.3	1148.4	2				III
			POTS				1148.3	1148.5	1				IIIG
			POTS				1245.6	1245.7	1				IIIB
			SGMR				1303.0	1304.0	1				III
			SVTO				1303.0	1304.0	2				III
			POTS				1303.8	1305.1	1				IIIG
			POTS				1307.0	1307.1	1				UNCLF
			POTS				1316.0	1500.0U	1				I,S
			POTS				1322.7	1323.5	1				IIIG,RS
			POTS				1332.2	1332.3	1				IIIB
			POTS				1343.1	1346.3	1				IIIG,RS
			SGMR				1430.0	1431.0	1				III
			POTS				1430.8	1431.2	1				IIIG
			POTS				1443.9	1500.0U	3				IIIGG,RS
			SGMR				1444.0	1444.0	1				III
			SGMR				1449.0	1453.0	2				V
			SVTO				1449.0	1453.0	2				III
			PALE				2246.0	2247.0	1				III
16	0621	1555	ONDR										
	0700	1200	IZMI				0701.8	0701.9	1				III
	0700	1500	POTS				0701.8	0701.9	1				IIIB
	0700	1200	IZMI				0721.8	0722.6	2				IIIG
			POTS				0721.8	0722.9	2				IIIG,U
			LEAR				0822.0	0822.0	2				III
			SVTO				0822.0	0822.0	1				III
	0700	1200	IZMI				0822.2	0822.7	2				IIIG,V
			POTS				0822.2	0822.8	2				IIIG
			POTS				0922.0	1120.0U	1				I,SDC,IIIGG,RS
	0700	1200	IZMI				0929.0	1006.0	1				IS
			POTS				0931.3	0932.4	1				IIIG
			POTS				0944.6U	0945.8	2				IIIG
	0700	1200	IZMI				0944.8	0945.1	2				IIIG
			SVTO				0945.0	0945.0	1				III
	0700	1200	IZMI				0945.3	0945.6	1				CONT
			POTS				0952.4	0952.5	1				IIIB

S O L A R R A D I O E M I S S I O N
Spectral Observations

MARCH 1994

Day	Observation Start (UT)	Observation End (UT)	Sta	Decimetric Band Start (UT)	Decimetric Band End (UT)	Decimetric Band Int (1–3)	Metric Band Start (UT)	Metric Band End (UT)	Metric Band Int (1–3)	Dekametric Band Start (UT)	Dekametric Band End (UT)	Dekametric Band Int (1–3)	Spectral Type
16			POTS				1020.6	1054.8	1				IIIGG
	0700	1200	IZMI				1041.0	1052.0	1				IN
	0700	1200	IZMI				1054.4	1054.5	1				III
			POTS				1103.9	1117.0	1				IIIGG
	0700	1200	IZMI				1115.8	1115.9	2				III
			POTS				1145.0U	1500.0U	1				I,S,DC,IIIG,RS
			POTS				1305.9	1310.9	1				IIIG
			POTS				1321.9	1334.9	1				IIIGG
17			LEAR				0139.0	0140.0	1				III
			LEAR				0207.0	0207.0	2				III
			PALE				0208.0	0208.0	1				III
			LEAR				0458.0	0504.0	3				III
			LEAR				0509.0	0511.0	2				III
	0619	1556	ONDR										
			LEAR				0644.0	0645.0	1				III
	0700	1500	POTS				0728.1	0728.3	1				IIIG
			POTS				0831.1	0831.3	1				IIIG
	0700	1200	IZMI				0831.2	0831.3	1				III
			SVTO				0832.0	0832.0	2				III
			POTS				0900.9	0904.4	1				IIIG
	0700	1200	IZMI				0904.3	0904.4	1				III
			POTS				0925.3	0925.4	1				IIIB
			POTS				1021.5	1021.6	1				IIIB
			POTS				1057.4	1117.2	1				IIIG
			POTS				1101.7	1117.2	1				IIIG
			POTS				1140.0	1141.1	1				IIIG
			POTS				1156.0	1156.9	1				IIIG
			POTS				1202.0U	1225.0	1				I,S
			SGMR				1305.0	1306.0	1				III
			SVTO				1305.0	1306.0	1				III
			POTS				1305.7	1309.4	1				IIIG
			POTS				1319.8	1319.9	1				IIIB
			POTS				1421.8	1422.0	1				IIIG
18	0617	1601	ONDR										
	0700	1200	IZMI				0657.9	0658.0	1				III
	0700	1500	POTS										
19			LEAR				0432.0	0436.0	2				III
	0615	1601	ONDR										
	0700	1200	IZMI										
20	0612	1603	ONDR										
	0700	1200	IZMI										
21	0700	1200	IZMI										
	0718	1603	ONDR										
			LEAR				0756.0	0757.0	1				III
			SVTO				0756.0	0757.0	1				III
	0700	1500	POTS				0756.5	0756.9	1				UNCLF
			POTS				1059.3	1059.6	1				IIIG
			SGMR				1511.0	1512.0	1				III
			SGMR				1512.0	1513.0	1				III
22	0608	1607	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS										
23	0606	1607	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS										
24	0603	1609	ONDR										
	0700	1200	IZMI										
	0700	1500	POTS				0921.0	0922.1	1				IIIG
25	0601	1500	ONDR										
	0700	1200	IZMI										

SOLAR RADIO EMISSION
Spectral Observations

MARCH 1994

Day	Observation Start (UT)	Observation End (UT)	Sta	Decimetric Band Start (UT)	Decimetric Band End (UT)	Decimetric Band Int (1-3)	Metric Band Start (UT)	Metric Band End (UT)	Metric Band Int (1-3)	Dekametric Band Start (UT)	Dekametric Band End (UT)	Dekametric Band Int (1-3)	Spectral Type
25	0700	1500	POTS										
26	0559	1614	ONDR										
	0700	1200	IZMI										
27	0557	1614	ONDR										
	0700	1200	IZMI										
28	0554	1614	ONDR										
	0600	1200	IZMI										
	0700	1500	POTS				1457.8	1458.3	1				IIIG
			PALE				2007.0	2008.0	1				III
29	0500	1200	IZMI										
	1315	1614	ONDR										
30	0700	1500	POTS				0806.3	0806.6	1				IIIG
	0500	1200	IZMI				0806.4	0806.6	1				IIIG
	0831	1620	ONDR										
31	0500	1200	IZMI										
	0548	1621	ONDR										
	0700	1500	POTS										

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

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

Stations Reporting:

IZMI = IZMIRAN
LEAR = Learmonth
ONDR = Ondrejov
PALE = Palehua
POTS = Potsdam
SGMR = Sagamore Hill
SVTO = San Vito

SOLAR RADIO NOISE STORM AT 164 MHZ FROM NANCAY RADIOHELIOGRAPH

MARCH 1994

DAY	HELIOGRAPHIC POSITIONS MEAN VALUES* E-W	S-N	IMP**	OBSERVING TIME*** START (UT)	END (UT)
14/03/94	-0.22	+0.43	1	0838 E	1353 D
15/03/94	+0.22	+0.34	1	1305	1440 D
16/03/94	+0.36	+0.55	2	0848E	1130
16/03/94	+0.09	+0.55	2	1250	1440

01, 03, 04 NO DATA
OTHER DAYS : NO DETECTABLE NOISE STORMS

---

* POSITIVE E-W AND S-N COORDINATES CORRESPOND TO THE N-W SOLAR QUADRANT

** IMP 1: FLUX<5 SFU IMP 2: 5<FLUX<20 IMP 3: 20<FLUX<100 SFU
IMP 4: 100FLUX<300 SFU IMP 5: FLUX>300 SFU

*** E NOISE STORM IN PROGRESS AT THE BEGINNING OF THE NANCAY OBSERVATIONS
D NOISE STORM IN PROGRESS AT THE END OF THE NANCAY OBSERVATIONS

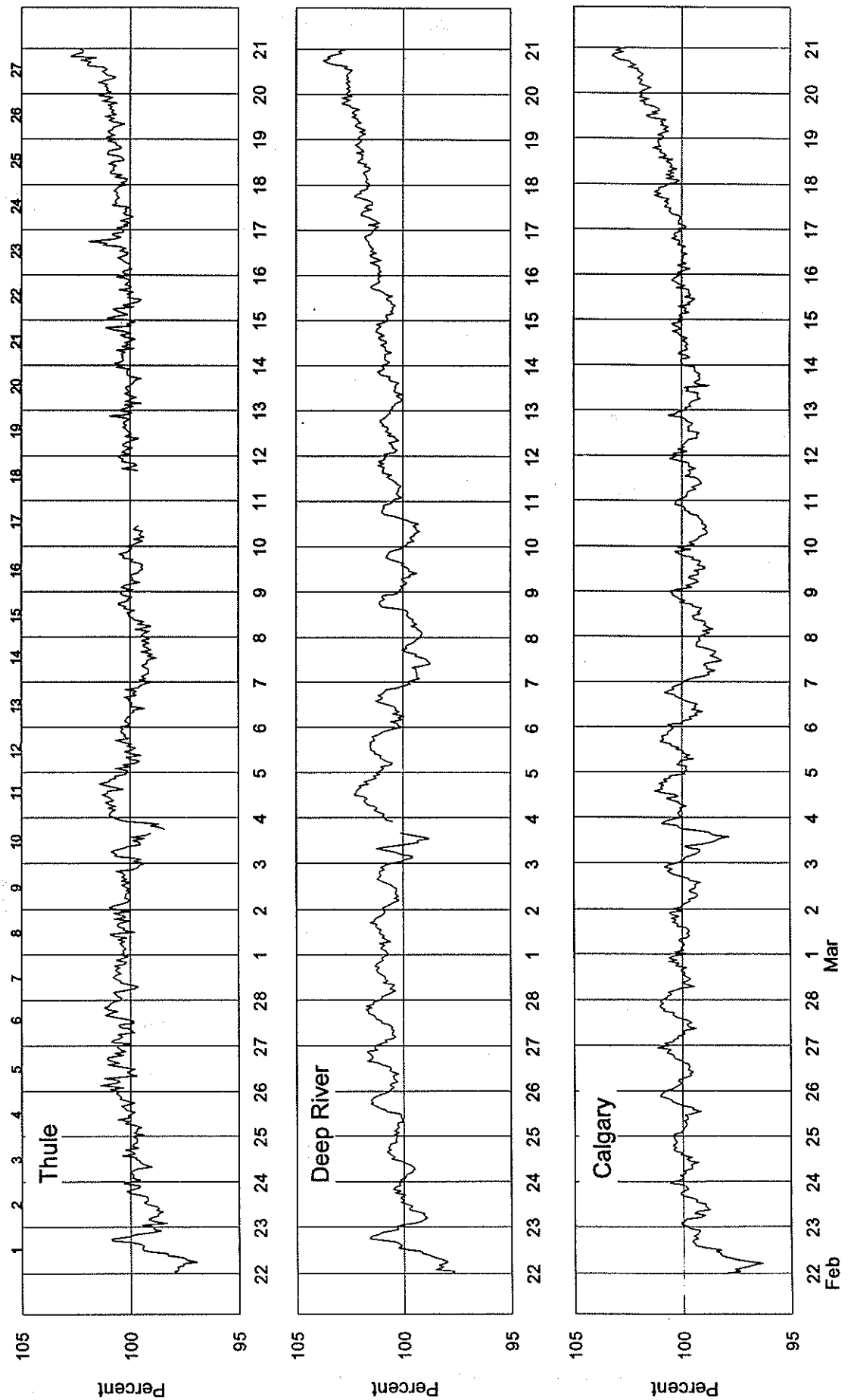
COSMIC RAY INDICES
(Neutron Monitor)
MARCH 1994

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	CALGARY Average (cts/h)/300	CLIMAX Average (cts/h)/100	BEIJING Average (cts/h) 256	TOKYO Average (cts/h)/256	HALEAKALA Average (cts/h)/1000
1	4348	6900.0	3781.8	3984.3	1997.0	3521.0	3483.0
2	4341	6878.2	3774.8	3977.3	1985.8	3525.0	3480.0
3	4320	6832.1	3760.8	3959.1	1989.7	3518.3	3474.2
4	4369	6937.8	3796.3	3997.1	1984.2	3527.7	3472.4
5	4336	6907.1	3788.7	3967.8	1987.0	3526.1	3469.3
6	4328	6863.8	3776.5	3960.0	1988.5	3524.7	3466.4
7	4298	6790.9	3738.8	3952.0	1989.9	3512.3	3465.9
8	4324	6829.6	3756.3	3984.4	1997.2	3513.0	3486.3
9	4328	6837.1	3763.5	3988.0	1999.3	3510.7	3485.1
10	4316	6830.5	3756.5	3974.0	1992.8	3536.5	3488.6
11	4335	6869.6	3767.2	3997.9	2000.7	3539.6	3496.8
12	4338	6874.8	3772.7	3992.2	2006.3	3530.8	3499.0
13	4333	6864.0	3757.0	3982.2	2011.7	3546.8	3512.3
14	4343	6893.3	3779.2	3991.3	2003.2	3548.4	3510.1
15	4339	6887.0	3776.2	3997.4	2000.3	3554.2	3497.9
16	4350	6924.6	3781.0	3995.8	2002.8	3547.0	3489.1
17	4348	6943.2	3800.3	4023.9	2004.0	3555.3	3506.6
18	4358	6956.3	3806.0	4025.2	2007.8	3558.5	3515.3
19	4368	6982.2	3825.2	4054.7	2016.5	3564.9	3530.0
20	4395	7022.7	3863.7	4083.9	2026.4	3579.0	3530.8
21	4426	7020.2	3865.3	4084.9	2016.7	3576.0	3528.0
22	4400	6994.3	3854.7	4075.4	2014.3	3563.2	3516.0
23	4393	6980.0	3844.0	4069.2	2017.3	3550.3	3491.1
24	4381	6965.7	3841.2	4059.7	2013.3	3546.3	3475.8
25	4381	6978.9	3841.3	4058.4	2016.8	3550.0	3476.2
26	4384	6972.0	3832.8	4052.5	2004.6	3540.6	3486.1
27	4350	6929.5	3813.7	4036.1	1995.0	3527.6	3482.2
28	4332	6881.4	3789.7	3997.1	1988.6	3508.8	3469.8
29	4350	6905.3	3794.8	3982.4	1987.1	3509.7	3475.5
30	4335	6916.0	3797.0	3984.2	1988.4	3518.0	3484.0
31	4347	6926.9	3798.7	3991.9	1989.2	3517.4	3491.1
Mean	4351.4	6912.7	3796.6	4009.0	2000.7	3537.0	3491.4

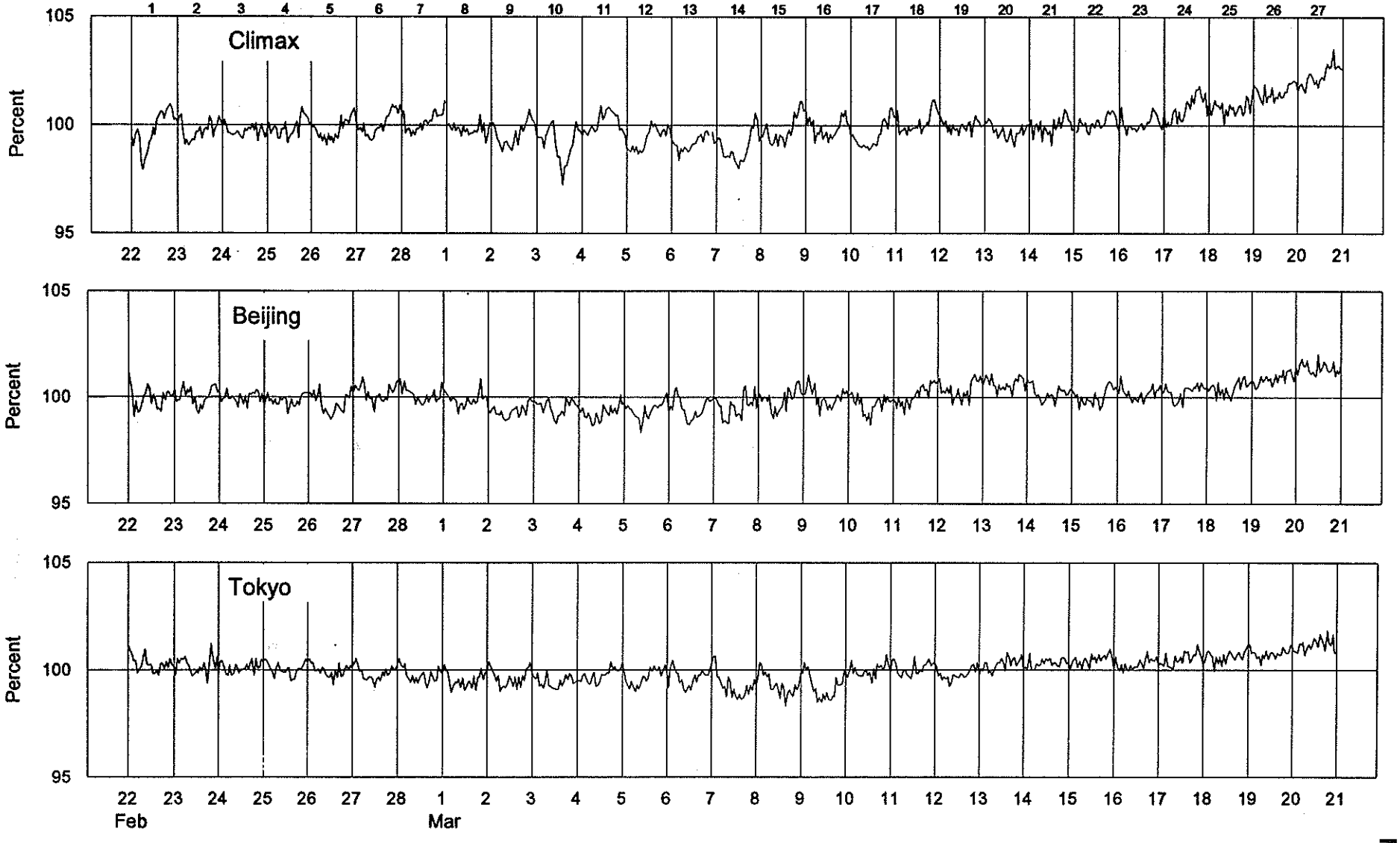
For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Haleakala, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

* = A&B includes only hours when both A&B sections are available.

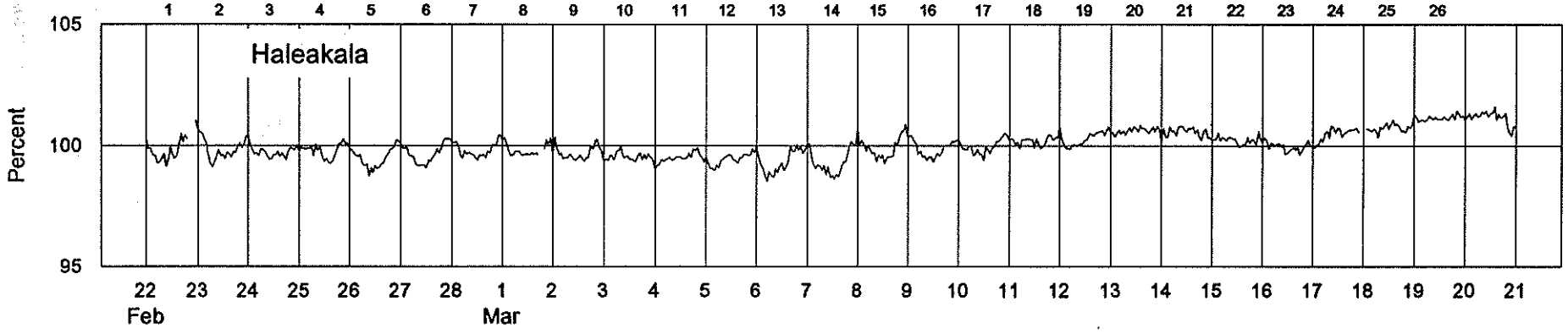
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2193 - Beginning 22 Feb 94



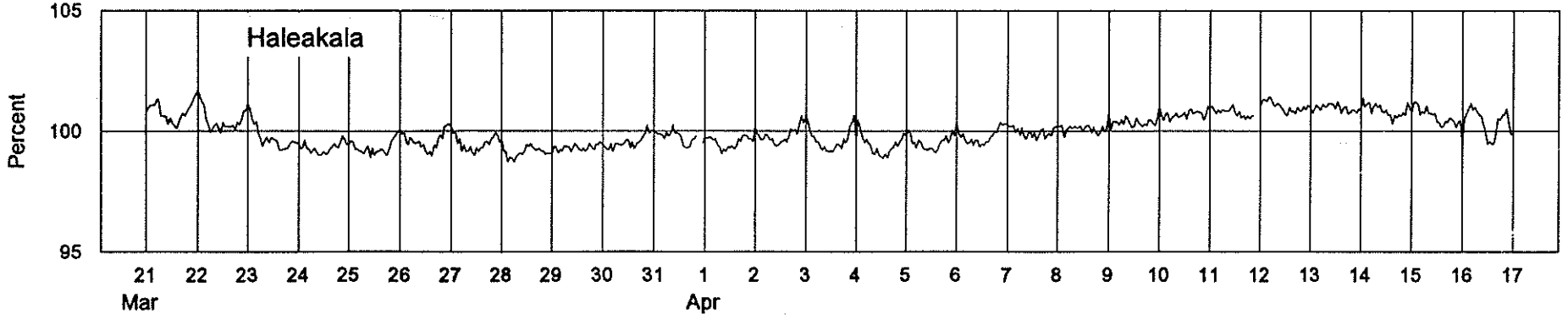
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2193 - Beginning 22 Feb 94



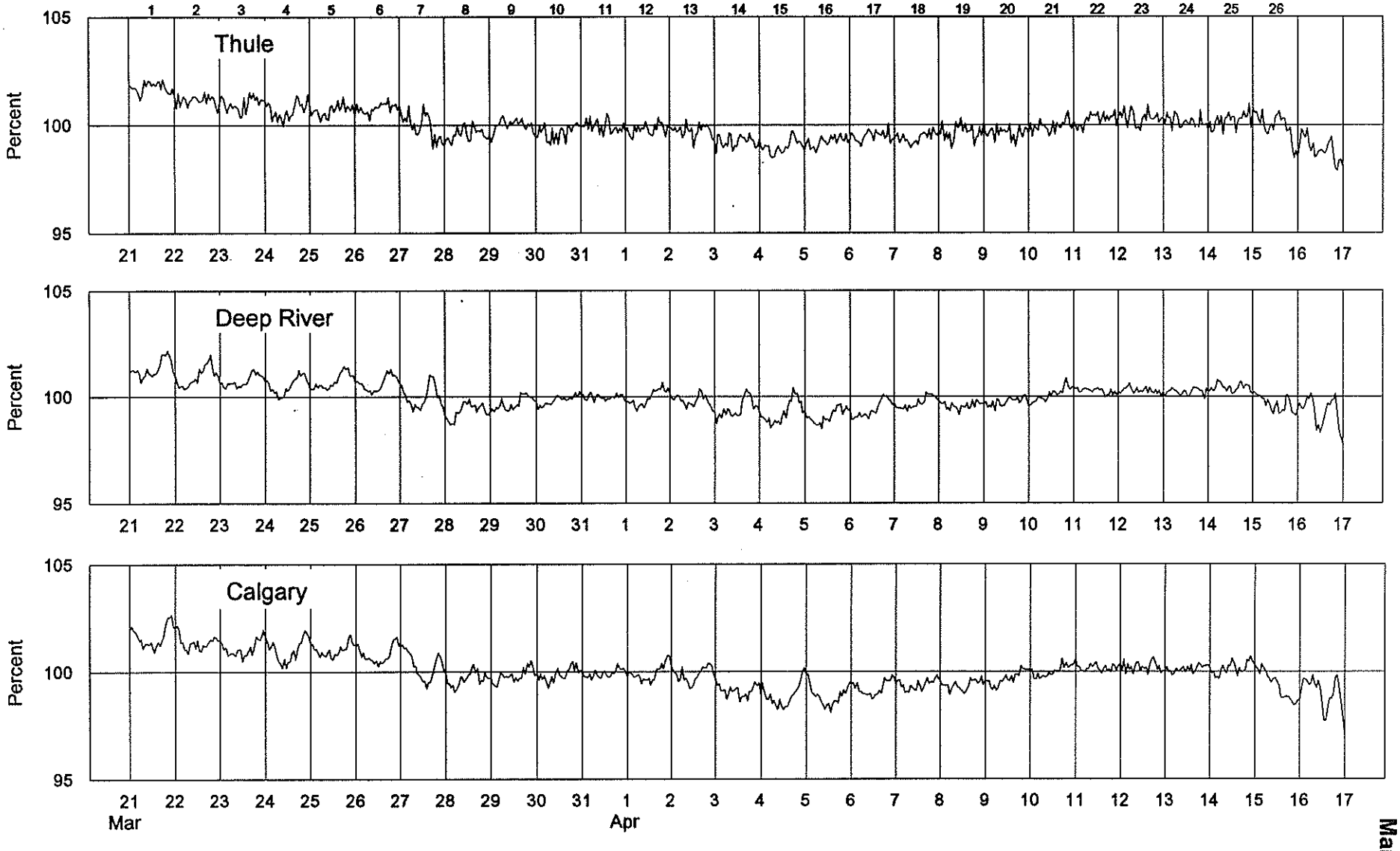
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2193 - Beginning 22 Feb 94



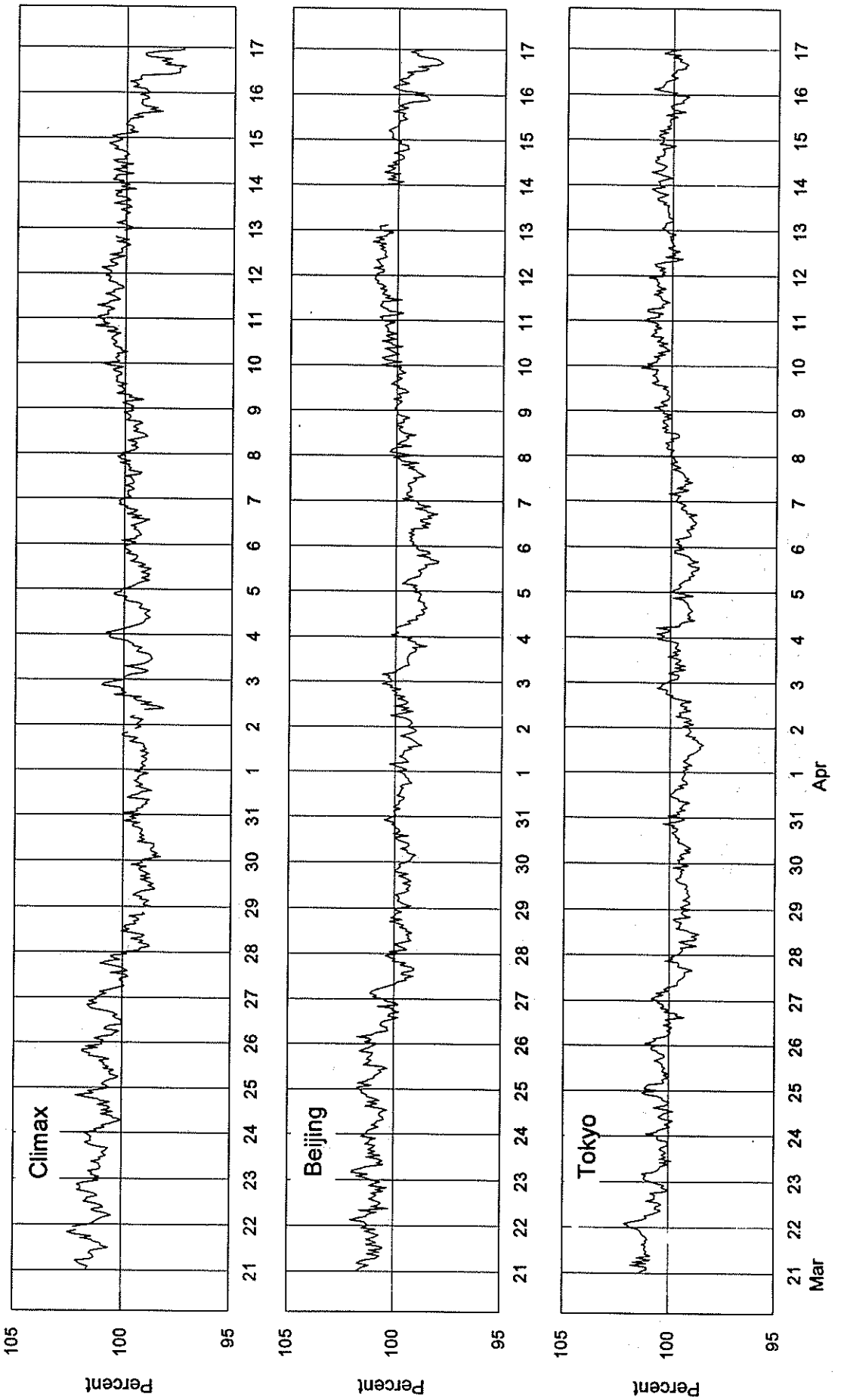
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2194 - Beginning 21 Mar 94



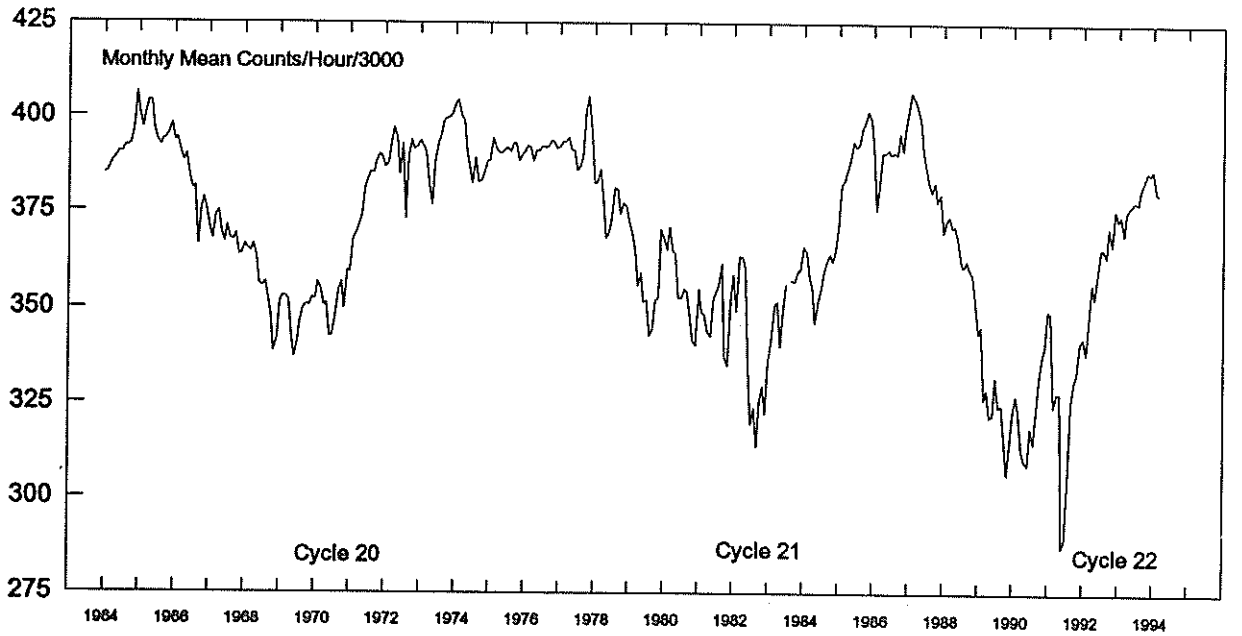
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2194 - Beginning 21 Mar 94



COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2194 - Beginning 21 Mar 94



Calgary Neutron Monitor Pressure-Corrected Values
Jan 1964 - Mar 1994



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1964	3847	3852	3872	3883	3892	3905	3905	3921	3920	3926	3966	4064	3913
1965	4006	3968	4007	4040	4040	3967	3935	3923	3938	3942	3960	3980	3976
1966	3935	3943	3906	3881	3899	3844	3807	3814	3663	3758	3785	3750	3832
1967	3710	3678	3741	3750	3697	3671	3713	3679	3675	3691	3638	3639	3690
1968	3663	3653	3647	3665	3632	3561	3556	3567	3529	3482	3386	3420	3563
1969	3515	3531	3529	3520	3417	3370	3408	3464	3500	3507	3506	3524	3483
1970	3523	3565	3548	3505	3512	3424	3426	3477	3543	3564	3497	3596	3515
1971	3593	3678	3693	3712	3737	3813	3832	3853	3851	3883	3899	3893	3786
1972	3865	3875	3924	3969	3942	3847	3926	3731	3895	3935	3912	3920	3895
1973	3935	3919	3903	3819	3768	3875	3926	3944	3986	3995	3997	4008	3923
1974	4036	4043	4005	3988	3906	3861	3822	3890	3827	3831	3850	3881	3912
1975	3883	3943	3914	3905	3904	3910	3918	3907	3929	3927	3884	3897	3910
1976	3908	3923	3915	3881	3909	3909	3921	3918	3920	3936	3935	3916	3916
1977	3919	3933	3933	3943	3911	3911	3857	3865	3895	4010	4055	3961	3933
1978	3823	3826	3860	3773	3681	3697	3730	3811	3808	3744	3772	3764	3774
1979	3726	3696	3647	3559	3592	3516	3521	3427	3447	3519	3528	3705	3573
1980	3681	3652	3711	3649	3643	3527	3525	3550	3540	3471	3414	3403	3564
1981	3550	3491	3483	3440	3426	3522	3546	3560	3615	3374	3348	3520	3490
1982	3586	3492	3634	3632	3608	3344	3196	3239	3137	3257	3296	3225	3387
1983	3364	3421	3510	3515	3399	3487	3563	No Data	3571	3569	3597	3599	3216
1984	3661	3646	3586	3551	3460	3515	3551	3593	3623	3641	3623	3652	3592
1985	3723	3821	3834	3858	3888	3936	3921	3929	3971	3987	4017	3997	3907
1986	3923	3755	3814	3905	3906	3915	3902	3907	3902	3958	3912	3974	3898
1987	4025	4068	4047	4028	3993	3914	3866	3822	3802	3827	3779	3796	3914
1988	3698	3729	3739	3709	3714	3682	3621	3608	3624	3603	3590	3520	3653
1989	3436	3454	3263	3290	3216	3222	3321	3224	3246	3164	3063	3152	3254
1990	3227	3272	3232	3129	3099	3089	3188	3147	3237	3317	3375	3401	3226
1991	3496	3489	3244	3279	3280	2873	2896	3078	3253	3311	3330	3412	3245
1992	3425	3382	3463	3566	3528	3593	3655	3655	3636	3711	3665	3758	3586
1993	3730	3741	3693	3753	3765	3775	3780	3775	3815	3836	3859	3852	3781
1994	3864	3807	3798										3823

Multiply table entries by 300 to obtain hourly counting rate. Calgary, Canada: N51 W114, Alt=1128m, Cutoff Rigidity=1.09GV.

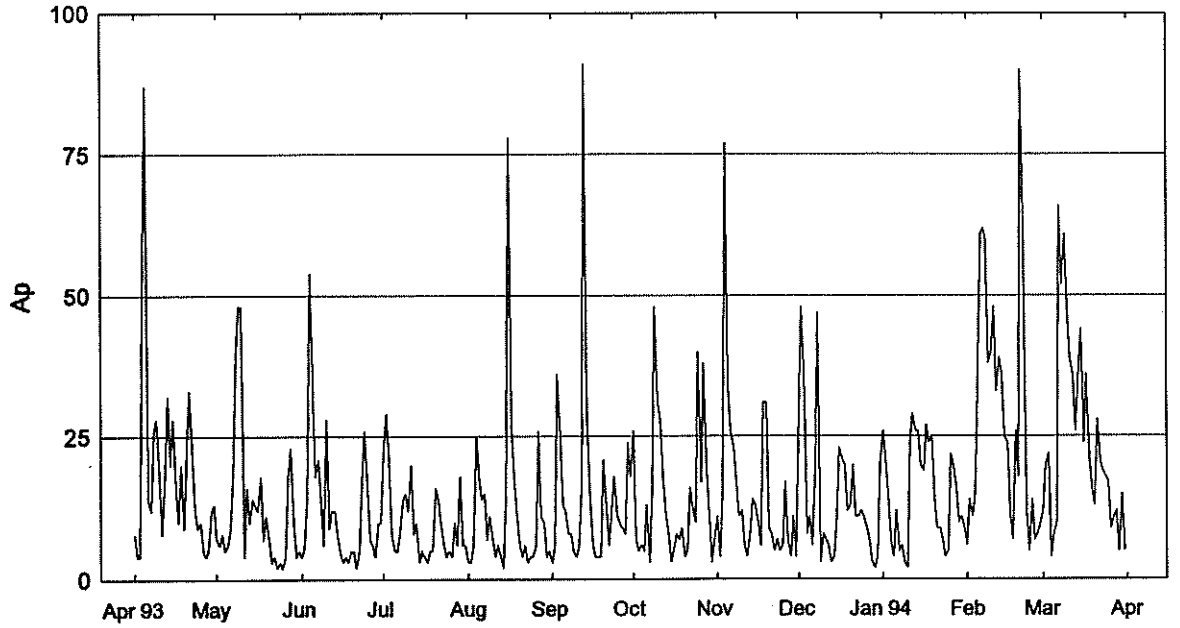
GEOMAGNETIC ACTIVITY INDICES

March 1994

Day		Kp Three-Hourly Indices 1 2 3 4	5 6 7 8	Sum	Ap	Cp	Km Three-Hourly Indices 1 2 3 4	5 6 7 8	aa Provisional Am	N	S	M	
1	Q8A	4- 2 3+ 2+	2- 2 2- 3+	20	12	0.7	3- 2o 3o 3-	2o 2o 2+ 3o	21	27	18	26	19
2		4 2+ 2 3-	2+ 2+ 4 5+	25	20	1.0	3+ 2+ 2+ 3o	3- 2+ 3+ 5-	33	37	30	25	41
3		4- 5- 5+ 4+	3- 1+ 2 2	26	22	1.1	3+ 4+ 4o 5-	3- 2- 2+ 2+	37	34	39	58	15
4	Q1	1 1- 1+ 2-	1- 0+ 0+ 1-	7-	4	0.1	2- 1+ 2- 2o	1- 1- 1- 1o	8	9	10	12	7 CC
5	Q5A	2- 1- 1- 2-	1 1- 2 4+	13-	8	0.4	2- 1- 1+ 2-	1o 1- 2o 4-	14	23	13	11	25
6	Q6A	2+ 3+ 2+ 2-	1- 1+ 3- 3+	18-	10	0.6	3- 3- 3- 2+	1o 2- 3o 4-	23	22	20	18	24
7	D1	5+ 4 4 6	5 6+ 6- 7	43+	66	1.7	5- 4- 4- 5o	4+ 6- 6- 6o	94	90	92	69	114
8	D3	5 6- 6- 5	5- 5- 5+ 5+	41+	52	1.6	4+ 4+ 5o 4+	5- 4+ 5- 4+	72	79	55	63	72
9	D2	4+ 5+ 6 5-	5- 6- 6+ 6	43	61	1.7	4o 5- 5o 4o	4+ 5- 5+ 5+	84	88	64	63	89
10	D4	5- 4+ 5 5-	5 5 5 6	40-	48	1.6	4o 3+ 4+ 4+	4+ 4+ 4+ 5+	67	66	60	60	66
11		4- 5- 5- 5-	5+ 5- 4+ 5	37	39	1.4	4- 4o 4o 4+	5- 4o 4- 5o	62	57	57	55	60
12		4+ 4 5+ 4+	5- 4+ 5- 4+	36	36	1.4	4o 3+ 4+ 4+	5- 4- 4+ 5-	62	66	66	60	72
13		5- 5 3- 4-	3 3 3- 5	30-	26	1.2	4o 4o 3- 3+	3o 3+ 3- 4+	40	40	33	36	37
14		4+ 5 4 3+	5- 5 5- 4+	35+	35	1.4	4o 4o 4o 3+	4o 4o 4+ 4+	56	57	57	51	63
15	D5	5- 6- 4+ 5-	5+ 5+ 5- 4	39-	44	1.5	4+ 4+ 4o 4+	5- 5- 4+ 4-	65	60	62	58	64
16		4 3+ 4- 2+	4- 5 4- 4-	29+	24	1.1	4- 3- 3+ 3-	3+ 4+ 3+ 3+	39	45	33	31	47
17		4 5 5+ 5-	4 5- 4+ 3+	35+	36	1.4	4o 4+ 4+ 4o	4- 4+ 4o 3+	54	57	47	56	49
18		4 5- 4- 2	3+ 3 2- 4+	27-	21	1.1	4o 4+ 4- 2+	3+ 3o 2- 4o	39	33	32	35	31
19		4+ 3+ 4- 3+	2 2 2+ 3-	24-	16	0.9	4- 3+ 3+ 3+	2o 2o 3- 3o	31	34	21	39	16
20	Q10A	3+ 3 2 2-	2- 3 4- 3+	22-	13	0.8	3o 3- 2+ 2+	2o 3- 3o 3o	24	25	21	17	29
21		3 5 4- 3+	4- 5 4+ 3+	31+	28	1.2	3o 5- 3+ 3+	4- 4+ 4o 3+	47	48	46	46	49
22		5 3+ 2+ 3	5- 3- 2+ 3	26+	21	1.1	5- 3- 2o 3o	4+ 3- 2o 3o	35	34	34	34	35
23		4- 4+ 3+ 3-	4- 4- 3 2+	27-	19	1.0	3+ 4o 3+ 3-	4- 3+ 2+ 2o	33	36	29	31	34
24		3+ 3+ 2+ 5-	4- 3- 2 3	25	18	1.0	3- 3- 2o 4o	4- 3o 2+ 3-	29	31	29	31	30
25		4 2 2 2+	3+ 4+ 4- 3	25-	17	0.9	3+ 1+ 2+ 3-	3+ 4o 4o 3o	33	39	32	22	49
26	Q4A	3 3- 2 3+	1+ 2- 2- 1	17-	9	0.5	3- 3- 2o 3o	1o 2- 1+ 1o	15	19	12	21	10
27	Q7A	2- 1+ 2- 1+	2 1+ 3- 5-	17-	11	0.6	1+ 1o 2- 2-	3- 2o 3o 4-	19	23	15	8	31
28	Q9A	1+ 3- 2 3-	3+ 4- 3- 3-	21	12	0.7	1+ 3- 2+ 3-	3o 3o 2+ 3-	23	23	23	17	29
29	Q2	2 2- 2 1+	1- 1- 1+ 2-	11+	5	0.2	2+ 2- 2o 1+	1o 1o 1+ 2-	11	11	11	13	9 C
30		1+ 1+ 1+ 3	4- 4 4- 3+	22-	15	0.8	2- 2- 1+ 3o	3+ 3o 3+ 3+	26	29	23	16	37
31	Q3	2+ 2 1+ 2	2- 1- 1- 0+	11	5	0.2	2+ 2+ 2o 2o	2- 1o 1- 1-	12	11	11	14	8 C
Mean					24	1.00			39.0	40.5	35.4	37.9	

Day	Kn Three-Hourly Indices 1 2 3 4	5 6 7 8	An	Ks Three-Hourly Indices 1 2 3 4	5 6 7 8	As	Sa	Prov Ri	Ra	Rs	IMF
1	3o 2- 3+ 3-	2+ 2+ 2+ 3o	22	2o 2o 3o 3o	2- 2o 2+ 3o	20	92.4	49	49	38	
2	3+ 2+ 2o 3o	3- 3- 4- 4+	33	3o 3- 3- 3o	3- 2o 3+ 5-	32	96.3	56	59	42	
3	3o 4o 4o 5-	3o 2+ 2o 2o	38	3+ 4+ 4- 5-	2o 1o 2+ 2+	36	99.2	62	76	45	
4	1+ 1+ 1+ 1+	1- 1- 0+ 1o	7	2- 1o 2o 3-	1- 0+ 1- 1-	9	96.3	54	58	42	
5	2- 1- 1o 2-	1o 1- 2+ 4-	13	2o 1- 2o 2-	1o 1- 2- 4-	15	94.2	50	59	40	
6	3- 3- 3- 2+	1+ 2- 3o 3+	22	3- 3- 3o 2o	0+ 2- 3o 4o	23	94.1	60	71	40	
7	4+ 3+ 4- 5o	4+ 6- 5+ 6+	91	5o 4o 3+ 5o	4+ 6- 6- 6o	97	90.0	52	58	35	
8	4o 5- 5- 5-	5- 4+ 5- 4+	72	5- 4+ 5o 4o	4+ 4o 5o 5-	73	89.9	46	48	35	
9	4o 5o 5+ 4o	5- 5- 5o 5o	82	4- 4o 5o 4o	4+ 5- 6- 6-	86	88.7	41	44	34	
10	4o 3+ 4+ 5-	5- 5- 4+ 5o	67	4o 4- 5- 4+	4o 4o 4+ 5+	67	86.8	29	36	32	
11	4- 4o 4o 4+	5- 4o 4- 5-	59	4- 4o 4+ 4+	5- 4o 4- 5+	65	87.0	32	40	32	
12	4o 3+ 5- 4+	5- 3+ 4+ 4+	62	4o 3+ 4+ 4+	4+ 4- 5- 5-	61	91.7	40	48	37	
13	4o 4o 3- 3+	3o 3+ 3- 4o	39	4o 4- 3- 4-	3- 3o 3- 5-	41	89.1	36	42	34	
14	4- 4o 4- 3+	4+ 4o 4o 4o	52	4+ 4+ 4+ 3+	4o 4- 4+ 5-	59	86.2	18	22	31	
15	4+ 4+ 4o 4+	5- 5o 4o 3+	65	5- 5- 4o 4+	5- 5- 5- 4-	66	86.5	24	26	31	
16	4- 3o 3+ 3-	3+ 4o 3+ 3+	37	4- 3- 3+ 3o	4- 4+ 4- 3+	40	85.3	22	26	30	
17	3+ 4+ 4+ 4+	4o 4+ 4- 3o	55	4+ 4o 4o 4-	4- 4+ 4o 4-	54	84.3	22	24	29	
18	4o 4o 4- 3-	3+ 3- 2- 4-	37	4+ 5- 4- 2o	4- 3o 2- 4o	41	85.9	18	19	31	
19	4- 3+ 3o 3+	3- 2+ 3o 3-	30	4o 3+ 3+ 3+	2- 2o 3- 3+	31	88.3	16	10	33	
20	3- 3- 2+ 2o	2o 3- 3o 3-	22	3o 3- 2+ 3-	2o 3o 3+ 3o	26	87.9	8	11	33	
21	3o 4+ 3+ 3+	4- 5- 4o 3+	47	3o 5- 3o 4-	4- 4o 4o 3o	47	90.0	17	19	35	
22	4+ 3- 2+ 3o	4+ 3- 3- 3o	34	5- 3- 2- 3o	4+ 3o 2- 3o	35	90.5	24	29	36	
23	3+ 4+ 3+ 3o	4- 3+ 3- 2o	36	3o 3+ 3o 3-	4- 3+ 2o 2-	28	91.2	22	25	36	
24	3o 3- 2o 4o	4- 3o 2+ 3o	31	3- 3- 2o 4-	4- 3o 2o 3-	27	92.1	32	34	37	
25	3+ 1+ 2+ 3-	3+ 4o 4- 3-	31	3o 1+ 2o 3-	3o 4+ 4+ 3+	34	90.4	34	44	36	
26	3- 3- 3- 3o	1+ 2- 2- 1o	18	3- 3- 1+ 3o	1o 1+ 1- 1+	14	88.1	24	28	33	
27	1+ 1o 2o 2-	3- 2+ 3o 4-	21	1+ 1o 1+ 1+	2+ 1+ 3- 4-	17	88.0	15	22	33	
28	2- 2+ 2+ 3-	3o 3+ 3- 3-	22	1+ 3o 3- 3o	3o 3o 2+ 3-	23	87.3	14	19	32	
29	2+ 2- 2+ 2-	1o 1+ 2- 2-	12	2+ 2o 2o 1+	1o 0+ 1+ 1+	11	85.8	14	19	31	
30	2- 1+ 2- 3o	4- 4- 4- 3+	29	2- 2o 1+ 3o	3o 3- 3+ 3o	23	86.1	29	31	31	
31	2+ 2o 1+ 2o	2- 1+ 1o 1o	11	3- 3- 3- 2o	2- 0+ 1- 0+	13	84.9	24	35	30	
Mean			38.6			39.2	89.5	31.7	36.5	34.7	

Daily Average Indices Ap
Apr 1993 - Mar 1994

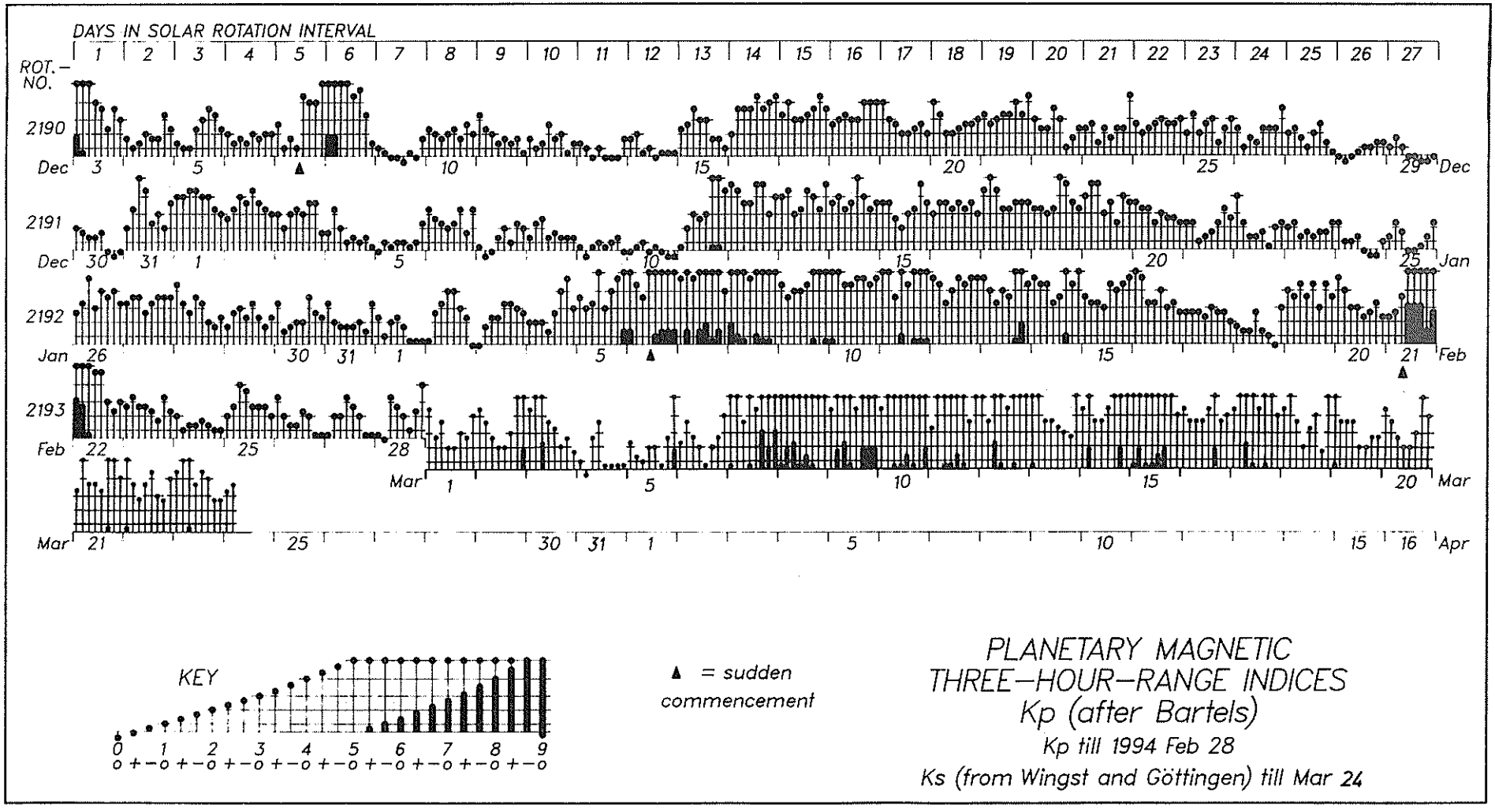


Day	Apr 93	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 94	Feb	Mar
1	8	7	4	22	3	3	26	11	29	26	6	12
2	4	6	6	29	3	6	7	4	48	21	14	20
3	4	8	14	21	6	36	5	15	37	15	11	22
4	58	5	54	8	25	25	6	77	8	6	15	4
5	87	6	36	5	18	13	5	34	11	4	33	8
6	14	9	18	5	14	12	13	26	6	12	61	10
7	12	18	21	8	15	8	3	23	20	5	62	66
8	26	40	14	14	7	8	16	17	47	6	60	52
9	28	48	6	15	11	5	48	11	3	3	38	61
10	18	48	28	12	7	4	31	12	8	2	40	48
11	8	4	9	20	4	6	28	6	7	24	48	39
12	16	16	12	8	6	16	18	4	6	29	33	36
13	32	10	12	10	4	91	11	8	3	26	39	26
14	20	14	8	3	2	28	8	14	4	26	36	35
15	28	13	5	5	14	16	3	13	11	20	25	44
16	16	12	3	4	78	6	5	10	23	19	24	24
17	10	18	4	3	27	4	8	6	21	27	11	36
18	20	7	3	5	18	4	7	31	20	24	7	21
19	9	11	5	5	12	4	9	31	12	25	26	16
20	23	7	5	16	6	21	4	9	13	14	18	13
21	33	3	2	14	4	14	5	8	20	9	90	28
22	21	4	5	10	6	6	16	5	11	9	57	21
23	12	2	17	6	3	12	12	7	11	7	12	19
24	9	3	26	4	4	18	10	5	12	4	5	18
25	10	2	18	5	4	11	40	6	11	5	14	17
26	5	4	7	4	6	10	17	17	9	22	7	9
27	4	18	6	10	26	9	38	7	7	20	8	11
28	5	23	4	6	11	8	21	4	3	16	10	12
29	12	10	10	18	10	24	11	11	2	10		5
30	13	4	10	6	4	18	3	4	4	11		15
31		5		6	5		7		20	9		5
Mean	19	12	12	10	12	15	14	15	14	15	29	24

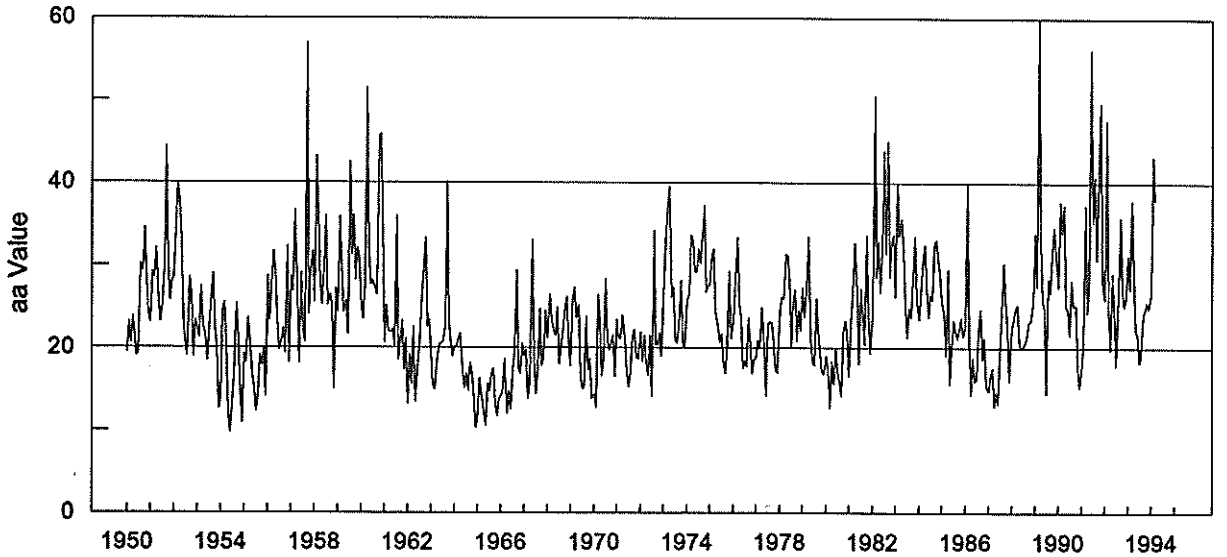
PLANETARY 3-HOUR-RANGE INDICES (Kp) BY 27-DAY SOLAR ROTATION INTERVAL

University of Gottingen

Kp through February 28, 1994



Monthly Mean aa Index Jan 1950 - Mar 1994



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1950	19.5	23.2	20.6	23.8	21.7	19.0	19.5	30.2	29.3	34.5	28.0	24.0	24.4
1951	23.1	29.2	28.5	32.1	25.5	23.2	25.2	29.7	44.4	30.3	25.7	28.2	28.8
1952	28.5	34.3	40.1	38.0	33.1	23.8	20.7	19.0	28.5	26.4	18.9	23.4	27.9
1953	22.3	21.2	27.4	22.7	21.4	18.4	22.5	26.1	29.0	22.4	20.2	12.6	22.2
1954	13.9	24.5	25.5	20.6	12.0	9.7	13.1	16.5	25.4	21.1	14.5	10.9	17.3
1955	19.3	18.2	23.6	21.1	16.7	15.1	12.3	14.3	19.1	17.8	19.9	14.1	17.6
1956	28.7	23.3	27.6	31.7	29.3	23.5	19.8	20.7	22.4	19.3	32.3	18.2	24.7
1957	28.7	26.8	36.7	28.8	18.1	29.1	21.7	20.7	57.0	24.0	29.5	31.7	29.4
1958	25.5	43.2	36.1	27.6	25.2	29.7	36.0	25.1	26.5	24.7	15.0	27.2	28.5
1959	24.3	35.9	29.9	24.2	25.7	21.6	42.5	31.2	36.1	28.2	32.1	30.8	30.2
1960	25.2	23.5	27.6	51.5	31.6	27.6	28.1	27.2	26.4	45.6	45.9	34.5	32.9
1961	20.6	25.1	22.0	21.8	22.3	20.1	36.0	18.5	20.7	23.3	17.3	21.1	22.4
1962	13.2	19.2	15.5	22.6	13.4	18.1	21.0	26.2	29.8	33.3	22.5	23.5	21.5
1963	19.3	15.3	14.9	18.2	20.4	20.5	20.8	22.5	40.2	23.5	20.7	18.9	21.3
1964	20.1	20.1	21.0	21.7	17.5	15.1	16.9	14.8	18.2	16.9	13.8	10.3	17.2
1965	11.8	16.3	14.3	12.6	10.5	15.7	14.7	16.8	17.5	13.1	11.7	13.8	14.1
1966	14.2	14.8	18.6	12.0	14.8	12.5	17.1	20.0	29.4	17.5	16.8	20.5	17.3
1967	18.9	19.8	13.8	15.5	33.1	18.6	14.4	17.5	24.7	17.8	18.9	24.5	19.8
1968	21.1	26.5	23.3	22.2	21.4	24.9	18.0	20.1	22.0	24.8	26.2	20.3	22.6
1969	17.8	25.8	27.3	23.6	25.2	16.7	15.0	15.3	23.8	17.2	18.7	13.8	20.0
1970	14.4	12.7	26.4	23.1	16.6	18.3	28.4	21.0	19.7	20.6	21.6	16.5	19.9
1971	23.5	21.2	21.1	23.9	21.1	17.0	15.2	17.1	21.4	22.2	18.8	18.6	20.1
1972	21.9	18.3	21.5	18.1	16.6	21.5	14.0	34.2	20.4	20.4	21.8	18.9	20.6
1973	26.1	32.7	36.9	39.6	26.1	27.3	20.9	20.6	22.8	28.2	20.7	19.9	26.8
1974	25.8	26.4	33.7	32.9	29.2	29.2	32.0	30.2	33.7	37.3	26.8	27.5	30.4
1975	27.6	31.1	32.0	24.3	22.7	20.7	21.7	18.1	16.9	20.2	29.3	21.1	23.8
1976	23.3	28.5	33.4	25.4	23.7	17.5	18.4	17.7	23.7	20.4	16.9	18.6	22.3
1977	18.7	21.0	19.9	24.9	20.1	14.2	22.9	23.2	23.0	20.9	17.3	17.0	20.3
1978	24.6	26.2	25.9	31.3	31.2	28.3	19.9	25.6	27.0	20.8	24.6	22.0	25.6
1979	27.3	23.7	26.9	33.5	21.0	18.3	17.9	26.0	22.0	19.3	17.1	16.8	22.5
1980	19.0	17.3	12.7	18.4	15.6	20.0	17.0	15.9	14.2	21.9	23.3	21.7	18.1
1981	16.5	23.1	26.6	32.8	26.9	18.0	27.2	24.0	20.4	33.7	24.1	19.3	24.4
1982	24.2	50.6	28.5	32.9	26.7	32.1	43.9	31.4	45.1	28.5	33.0	33.8	34.2
1983	26.2	40.0	33.6	35.7	31.6	24.9	21.3	24.9	23.7	28.3	33.5	26.0	29.1
1984	23.5	26.7	30.7	32.5	27.2	23.7	26.4	25.8	32.6	33.1	31.0	29.0	28.5
1985	25.7	24.1	19.0	29.5	15.6	19.9	23.4	22.0	21.2	22.2	23.7	21.4	22.3
1986	22.4	40.0	21.1	14.3	18.8	15.9	16.3	22.3	24.7	18.6	21.2	15.3	20.9
1987	14.8	16.6	17.6	12.9	14.7	13.2	19.3	24.3	30.3	25.8	22.4	16.0	19.0
1988	22.4	23.4	24.8	25.2	20.5	20.0	20.2	20.6	21.4	23.2	23.3	25.5	22.5
1989	33.9	27.5	60.1	32.8	25.7	24.9	14.4	28.4	26.7	31.4	34.7	31.4	31.0
1990	27.4	37.8	33.9	37.4	25.1	24.6	21.6	28.2	25.1	25.1	17.4	15.2	26.6
1991	17.2	20.1	37.3	24.3	27.3	56.2	35.2	40.8	30.7	44.1	49.7	28.0	34.2
1992	25.9	47.7	24.5	19.8	29.1	24.8	17.9	24.1	35.8	27.0	25.0	26.1	27.3
1993	31.2	27.1	37.9	29.2	22.1	21.8	18.2	19.2	23.8	24.6	25.5	24.8	25.5
1994	26.5	43.2	37.9										35.9

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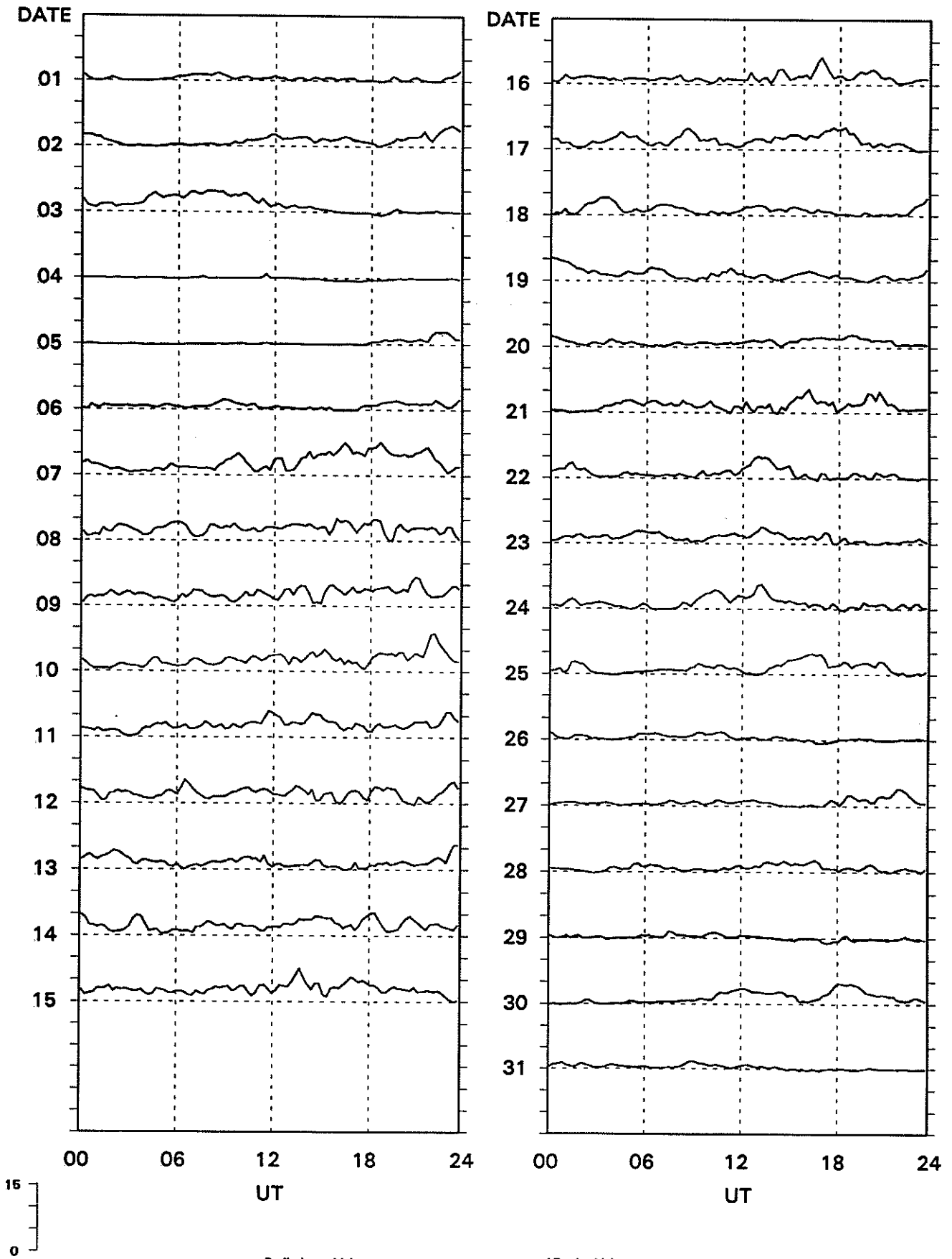
Mar 94

PC-INDEX

Thule

March, 1994



Preliminary Values.

15-min. Values.

Div. Geophys. D M I

P R I N C I P A L M A G N E T I C S T O R M S

MARCH 1994

Sta	Geomag Lat	Commencement Day	Time (UT)	Type	SC Amplitudes D (Min)	H (Gamma)	Z (Gamma)	Maximum 3-Hour K Index Day(3-Hour Periods)	K	Ranges D (Min)	H (Gamma)	Z (Gamma)	End Day	Hour (UT)
BJI	28.8N	02	20--	..	..	..	..	03(3)	5	11	135	24	03	24
KRC	16.4N	02	2047	..	..	..	..	03(3)	6	70	126	40	03	14
HER	33.6S	02	20--	..	..	..	..	02(8)	5	17	93	58	03	13
GUA	04.3N	03	04--	..	..	..	..	03(4)	5	--	140	10	03	17
AMS	46.8S	05	2159	SC	13	- 4	- 23	05(8)	5	13	21	36	06	03
FRD	49.4N	06	22--	..	..	..	..	07(8)	6	32	151	101	18	09
BJI	28.8N	06	18--	..	..	..	..	07(4)	6	15	140	38	09	24
KRC	16.4N	06	2236	..	..	..	..	07(4,5,6)	6	87	185	80	13	04
HYB	07.6N	06	1400	..	..	..	..	07(4,6,8)	6	6	204	20	10	23
GUA	04.3N	06	22--	..	..	..	..	07(1)	5	--	50	30	07	07
ETT	00.7S	06	1700	..	..	..	..		-	6	259	90	09	24
HER	33.6S	06	17--	..	..	..	..	07(8)	6	44	167	168	13	13
AMS	46.8S	06	15--	..	..	..	..	07(6) 09(6)	6	37	144	120	10	06
CZT	51.5S	06	18--	..	..	..	..	07(7,8) 08(7) 09(6,7,8)	7	39	240	188	10	06
PAF	57.2S	06	18--	..	..	..	..	07(8)	9	152	1477	593	10	06
GUA	04.3N	07	08--	..	..	..	..	07(4)	5	10	110	30	09	24
DRV	75.2S	07	0357	SC	40	- 32	104	08(1,2,3,8) 09(1,3) 10(1,3,4,8) 11(1,2,4,8)	5	660	830	762	13	15
GUA	04.3N	10	01--	..	..	..	..	10(4)	5	--	60	10	10	17
ETT	00.7S	10	0200	..	..	..	..		-	4	134	58	13	12
HYB	07.6N	12	0200	..	..	..	..	12(6)14(5)15(5,6)	5	3	92	26	15	21
GUA	04.3N	12	09--	..	..	..	..	12(4)	5	--	60	10	12	19
HER	33.6S	13	19--	..	..	..	..	13(8)14(2,7)15(1)17(7)	5	28	101	85	18	19
CZT	51.5S	13	21--	..	..	..	..	14(7,8) 15(5,6,7)	6	30	156	64	18	03
DRV	75.2S	13	2009	SC	- 64	- 40	80	15(5)	6	513	570	854	18	15
KRC	16.4N	14	1217	..	..	..	..	14(7)15(7)16(6)17(3)	5	45	85	51	17	21
ETT	00.7S	14	0200	..	..	..	..		-	5	148	61	18	10
HYB	07.6N	20	1400	..	..	..	..	21(2)	5	4	114	20	23	21
PAF	57.2S	20	16--	..	..	..	..	20(7) 21(7) 22(1)	5	20	208	130	23	21
FRD	49.4N	21	03--	..	..	..	..	21(2)22(1)24(4)	5	25	124	33	24	
KRC	16.4N	21	0225	..	..	..	..	21(2,7) 22(4) 23(4) 24(4) 25(6)	5	58	95	40	25	22
GUA	04.3N	21	02--	..	..	..	..	21(2)	6	--	120	20	21	20
DRV	75.2S	21	0255	SC	-216	-120	272	22(1) 23(1) 24(1)	5	388	385	573	24	18
AMS	46.8S	25	1518	SC	- 4	36	- 2	25(6,7)	4	11	57	22	25	21
PAF	57.2S	25	1517	SC	4	- 4	8	25(6,7)	5	21	141	131	25	22

Stations:

ABG = ALIBAG
AMS = MARTIN DE VIVIES
ANN = ANNAMALAINAGAR
BJI = BEIJING
CAN = CANBERRA
CMO = COLLEGE
CZT = PORT ALFRED
DRV = DUMONT D'URVILLE
ETT = ETAIYAPURAM
FRD = FREDERICKSBURG
GNA = GNANGARA
GUA = GUAM
HER = HERMANUS
HON = HONOLULU
HYB = HYDERABAD
JAI = JAIPUR
KRC = KARACHI
PAF = PORT AUX FRANCAIS
PMG = PORT MORESBY
SHL = SHILLONG
SIT = SITKA
TRD = TRIVANDRUM
UJJ = UJJAIN

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

MARCH 1994

Storm Sudden Commencements (SSC)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
None			01	1020-1026	MPO
			01	1341-1344	MPO
			03	0207-0313	LNP
			04	1126-1146	LER ESK HAD BDV CLF NAG EBR
			04	1139-1145	MPO
			18	0730-0733	MPO
			19	0412-0418	MPO
			19	1003-1008	MPO
			22	0819-0824	MPO
			24	1633-1638	MPO
			28	1054-1100	MPO
			28	1302-1316	TEN (ssc: QUE)
			29	1207-1213	MPO
			31	0441-0445	MPO

REPORTING OBSERVATORIES (up to the 1st of May):
SOD DOB NUR LER ESK WNG NGK HAD DOU BDV CLF HRB NAG MMB EBR COI BJI SPT FRD KAK HTY KNY QUE TEN LNP MPO HER AMS PAF DRV

Three-letter codes identify each observatory. Reporting stations have been grouped by the character of the observed event. The letter A means very remarkable; B means fair, but unmistakable; C means very poor, doubtful; and - means no quality figure given. The * means that the SSC, at least in one component, was preceded by a small reversed impulse. SSCs are given only when five or more stations report the event. SFEs include all reports. If an SFE is confirmed by solar or ionoshperic events, the name of the station is underlined.

CONTENTS

Prompt Reports Number 597 Part I

LATE DATA

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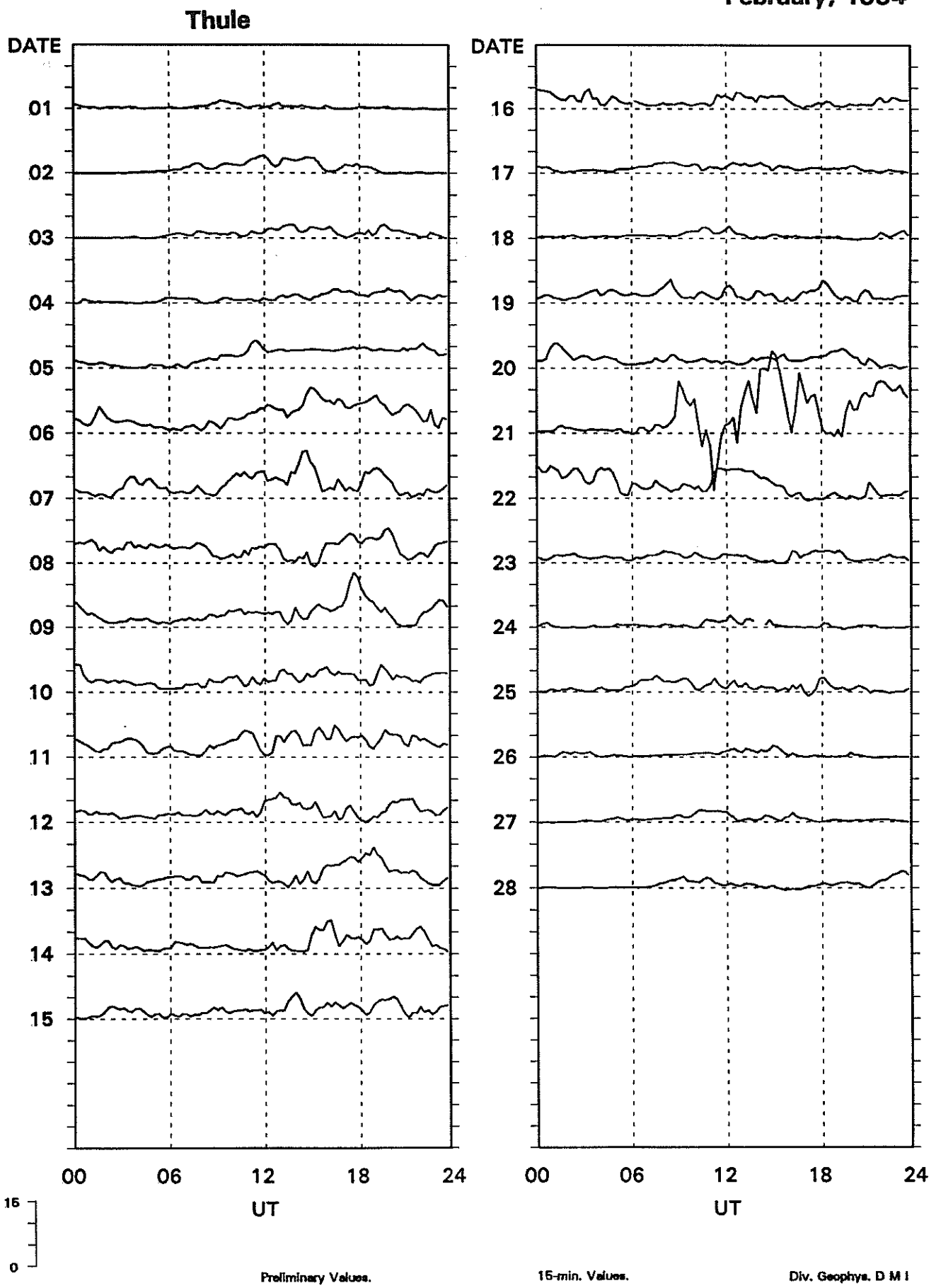
Late
Feb 94

PC-INDEX

February, 1994



Preliminary Values.

15-min. Values.

Div. Geophys. D M I

WDC-C2 FOR GEOMAGNETISM, KYOTO UNIVERSITY

HOURLY EQUATORIAL DST VALUES(PROVISIONAL)

AUGUST 1993

UNIT=NT

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	U.T. 24
1	-4	-1	1	1	2	3	4	6	4	3	6	10	13	14	15	16	15	14	10	8	8	6	6	9
2	12	9	4	3	5	7	6	7	7	8	9	8	6	4	4	4	3	0	-1	0	0	-3	-4	-8
3	-6	-1	0	0	1	-1	-1	-4	-5	-1	3	8	8	7	8	5	-2	-6	-1	2	2	2	-2	4
4	11	8	5	2	5	3	2	5	5	4	3	-5	-13	-15	-15	-25	-33	-43	-50	-44	-34	-29	-42	-69
5	-73	-67	-65	-58	-52	-51	-45	-37	-38	-38	-43	-42	-37	-37	-37	-36	-32	-29	-34	-30	-27	-24	-23	-19
6	-16	-15	-16	-20	-24	-24	-31	-24	-27	-30	-23	-21	-24	-34	-33	-33	-38	-37	-32	-27	-27	-24	-21	-22
7	-21	-21	-27	-35	-42	-36	-33	-36	-36	-34	-29	-32	-37	-36	-29	-27	-29	-28	-29	-30	-29	-30	-33	-21
8	-18	-16	-18	-18	-20	-29	-30	-29	-24	-20	-20	-27	-26	-26	-24	-24	-22	-20	-18	-16	-15	-16	-12	-9
9	-7	-12	-15	-21	-20	-18	-21	-22	-26	-24	-18	-15	-10	-12	-12	-15	-16	-14	-19	-22	-23	-19	-14	-12
10	-14	-15	-17	-14	-13	-11	-10	-10	-7	-6	-10	-9	-9	-8	-9	-12	-16	-15	-9	-11	-15	-17	-15	-13
11	-10	-9	-11	-11	-14	-13	-13	-15	-16	-16	-16	-13	-13	-9	-8	-6	-7	-7	-5	-5	-8	-7	-7	-7
12	-4	0	0	-2	-6	-14	-18	-17	-15	-13	-14	-18	-16	-11	-8	-6	-6	-8	-8	-8	-11	-9	-9	-8
13	-10	-9	-10	-7	-10	-18	-20	-12	-6	-3	2	-1	-2	-5	-9	-13	-10	-10	-9	-8	-11	-9	-6	-5
14	-3	-1	-3	-3	-2	1	1	1	1	2	3	2	3	3	4	4	6	8	9	9	10	9	11	14
15	12	9	8	8	7	9	8	9	12	14	12	9	7	6	4	8	7	6	6	12	7	-13	-36	-29
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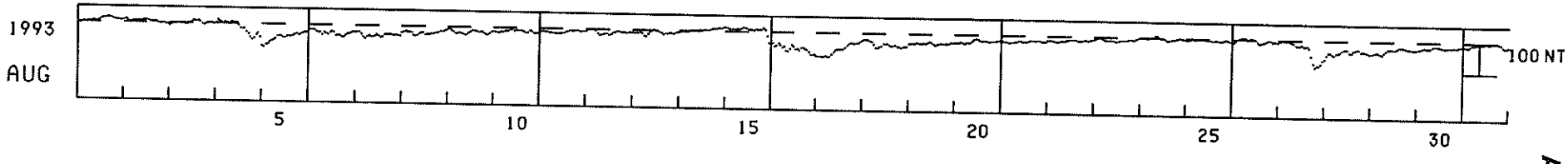

WDC-C2 FOR GEOMAGNETISM, KYOTO UNIVERSITY

HOURLY EQUATORIAL DST VALUES(PROVISIONAL)

SEPTEMBER 1993

UNIT=NT

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	U.T. 24
1	-12	-11	-9	-8	-10	-9	-7	-3	-3	-3	-2	-1	0	1	-1	0	-1	-3	-6	-6	-7	-7	-3	3
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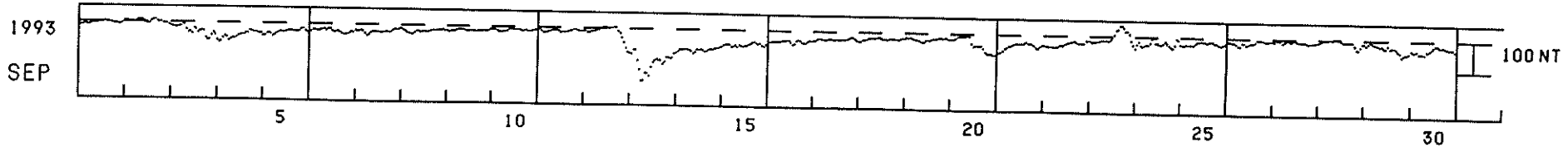

WDC-C2 FOR GEOMAGNETISM, KYOTO UNIVERSITY

HOURLY EQUATORIAL DST VALUES(PROVISIONAL)

OCTOBER 1993

UNIT=NT

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	U.T. 24
1	-30	-22	-16	-35	-39	-38	-33	-34	-29	-22	-19	-19	-22	-25	-23	-23	-22	-16	-20	-19	-19	-19	-15	-14
2	-16	-15	-14	-17	-18	-17	-14	-12	-9	-6	-6	-9	-10	-9	-11	-9	-5	-5	-7	-9	-12	-14	-15	-11
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4	5	4	5	6	4	5	4	7	9	14	16	14	11	7	4	3	7	9	5	-1	1	4	3	0
5	-2	-2	0	-1	1	6	11	15	17	19	16	16	14	13	13	15	14	5	-7	-17	-19	-13	-7	-5
6	-7	-9	-15	-28	-31	-28	-23	-26	-30	-21	-17	-16	-15	-12	-11	-4	-2	-4	-6	-9	-14	-13	-12	-13
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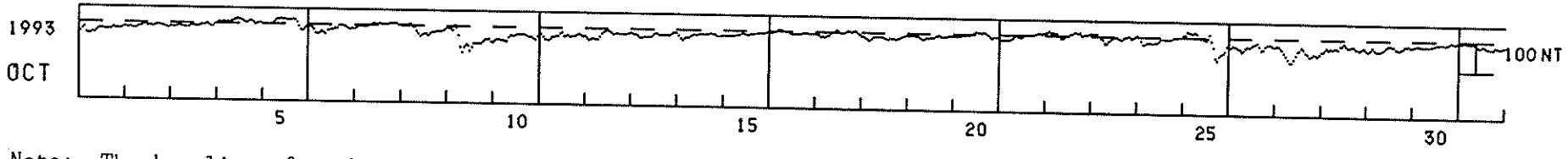

Note: The baselines for the observatories were adjusted for secular change. Therefore there is a small discontinuity in the Provisional Dst values between the last hour of September 1993 and the first hour of October 1993.

WDC-C2 FOR GEOMAGNETISM, KYOTO UNIVERSITY

HOURLY EQUATORIAL DST VALUES(PROVISIONAL)

NOVEMBER 1993

UNIT=NT

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	U.T. 24
1	-19	-12	-10	-8	1	2	0	-1	-7	-7	-8	-7	0	-10	-8	-12	-14	-15	-9	-9	-10	-10	-8	-11
2	-15	-11	-13	-10	-8	-9	-5	-7	-8	-8	-7	-7	-5	-5	-4	-2	-2	-5	-6	-8	-9	-8	-9	-9
3	-9	-5	-3	-2	-2	-1	-1	3	6	9	15	16	23	27	25	28	28	19	21	5	3	8	8	-25
4	-78	-90	-76	-70	-90	-95	-105	-103	-100	-100	-88	-116	-109	-102	-83	-77	-75	-73	-78	-69	-69	-69	-59	-67
5	-68	-56	-48	-48	-51	-50	-51	-46	-53	-55	-51	-55	-52	-50	-45	-44	-48	-47	-47	-42	-44	-47	-43	-39
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24	9	10	9	9	7	7	7	6	7	6	3	3	1	2	2	2	2	4	2	6	9	7	5	4
25	2	8	6	8	9	9	13	10	9	9	10	11	8	10	12	17	15	16	22	20	23	26	23	6
26	-1	6	8	4	-1	2	5	6	4	0	-3	-1	1	1	-2	-1	0	-2	-7	-10	-8	-3	-3	-1
27	-3	-8	-7	-6	-7	-5	-2	0	-2	-6	-6	-7	-7	-7	-6	-4	0	3	3	2	-2	-10	-9	-7
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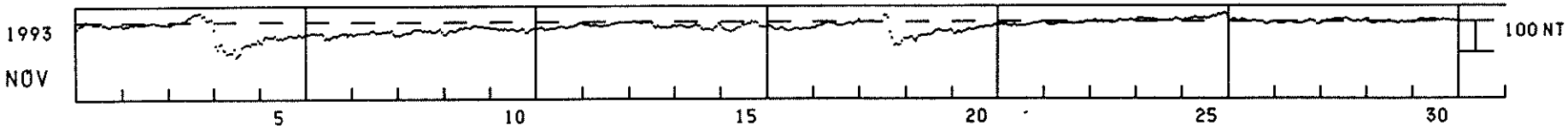

WDC-C2 FOR GEOMAGNETISM, KYOTO UNIVERSITY

HOURLY EQUATORIAL DST VALUES(PROVISIONAL)

DECEMBER 1993

UNIT=NT

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	U.T. 24
1	0	5	8	13	21	25	26	24	24	14	12	0	-21	-37	-42	-40	-53	-44	-38	-33	-32	-43	-39	-28
2	-42	-43	-36	-40	-42	-47	-45	-34	-35	-34	-28	-38	-43	-37	-35	-37	-32	-33	-34	-44	-76	-86	-97	-107
3	-111	-103	-97	-84	-86	-90	-87	-84	-77	-77	-77	-79	-74	-68	-61	-56	-52	-48	-42	-41	-47	-49	-48	-49
4	-50	-46	-40	-34	-34	-33	-30	-28	-27	-30	-33	-33	-29	-24	-22	-23	-22	-18	-19	-22	-33	-32	-31	-30
5	-30	-31	-28	-25	-22	-22	-20	-22	-22	-20	-19	-21	-20	-26	-28	-29	-27	-26	-26	-27	-28	-28	-24	-24
6	-25	-27	-24	-21	-20	-17	-13	-12	-12	-13	-15	-15	-12	-14	-15	-14	-10	-12	-14	-16	-16	-19	-20	-24
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8	-48	-55	-64	-74	-84	-85	-83	-81	-87	-89	-85	-71	-71	-59	-67	-66	-61	-65	-69	-71	-66	-61	-58	-59
9	-56	-51	-46	-45	-44	-44	-42	-39	-36	-34	-33	-32	-33	-31	-28	-28	-28	-24	-24	-23	-22	-22	-23	-23
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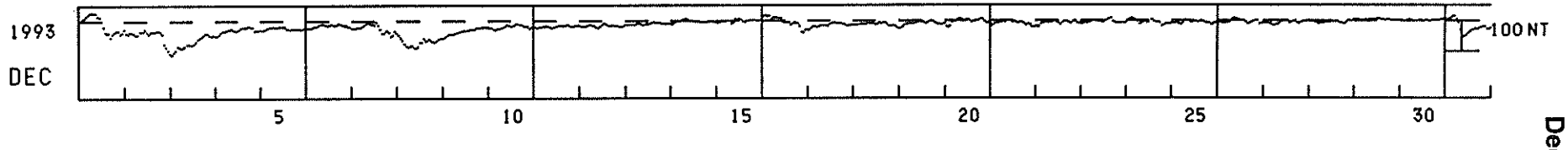

123
Late
Dec 93

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

NOVEMBER 1992

Storm Sudden Commencements (SSC)

Day	Time	Quality: Station Group*
01	2147	A: LER* ESK WNG HAD* HRB* NAG EBR* COI* BJI SPT* QUE TEN* LNP PMG* HER CNB* CZT KGL DUM*
		B: DOB NUR NGK BDV*
		C: FRD* KAK HTY KNY
04	1312	A: CZT* KGL
		B: LER HAD HER
		C: ESK COI SPT
		si: EBR

Solar Flare Effects (sfe)

Day	Begin-End	Station(s)
01	1031-1050	BDV
02	0249-0258	LNP
03	0050-0155	TEN
04	2300-0030	TEN
11	2107-2122	QUE
30	1425-1449	TEN

REPORTING OBSERVATORIES (up to the 5th of January 1993):
SOD DOB NUR LER ESK WNG NGK HAD BDV CLF HRB NAG MMB EBR COI BJI SPT FRD KAK HTY KNY QUE TEN LNP PMG GNA HER CNB CZT KGL DUM

Three-letter codes identify each observatory. Reporting stations have been grouped by the character of the observed event. The letter A means very remarkable; B means fair, but unmistakable; C means very poor, doubtful; and - means no quality figure given. The * means that the SSC, at least in one component, was preceded by a small reversed impulse. SSCs are given only when five or more stations report the event. SFEs include all reports. If an SFE is confirmed by solar or ionoshperic events, the name of the station is underlined.

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

DECEMBER 1992

Storm Sudden Commencements (SSC)

Day	Time	Quality: Station Group*
07	0755	A: BJI B: WNG QUE LNP HYB ETT* CNB* AMS CZT* KGL* DUM C: CLF SPT HER
07	1346	A: HRB* COI* QUE B: WNG NGK BDV* CLF* EBR* KGL* C: DOB
17	0616	A: COI BJI QUE LNP HYB ETT GNA HER CNB KGL* B: WNG HRB MMB EBR* SPT KAK HTY KNY AMS CZT* DUM C: NGK BDV* CLF* FRD*
27	2010	A: COI B: HRB BJI QUE GNA CNB* BDV CLF MMB EBR FRD* KAK HTY KNY LNP HYB ETT

Solar Flare Effects (sfe)

Day	Begin-End	Station(s)
04	1136-1145	BDV
05	1344-1354	NAG
15	0109-0113	LNP
16	0548-0554	LNP

REPORTING OBSERVATORIES (up to the 2nd of February 1993):
SOD DOB NUR WNG NGK BDV CLF HRB NAG MMB AQU EBR COI BJI SPT FRD KAK HTY KNY QUE LNP HYB ETT GNA HER CNB AMS CZT KGL DUM

Three-letter codes identify each observatory. Reporting stations have been grouped by the character of the observed event. The letter A means very remarkable; B means fair, but unmistakable; C means very poor, doubtful; and - means no quality figure given. The * means that the SSC, at least in one component, was preceded by a small reversed impulse. SSCs are given only when five or more stations report the event. SFEs include all reports. If an SFE is confirmed by solar or ionoshperic events, the name of the station is underlined.

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."