APRIL 2008 NUMBER 764 - Part I

Solar-Geophysical Data prompt reports

Data for February and March 2008
Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

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Data for February and March 2008

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NATIONAL GEOPHYSICAL DATA CENTER
Christopher G. Fox, Director
Boulder, Colorado

SOLAR-GEOPHYSICAL DATA

Number 764

(Issued in Two Parts)

Editor: Edward H. Erwin

Division Chief: William F. Denig
Solar-Terrestrial Physics Division

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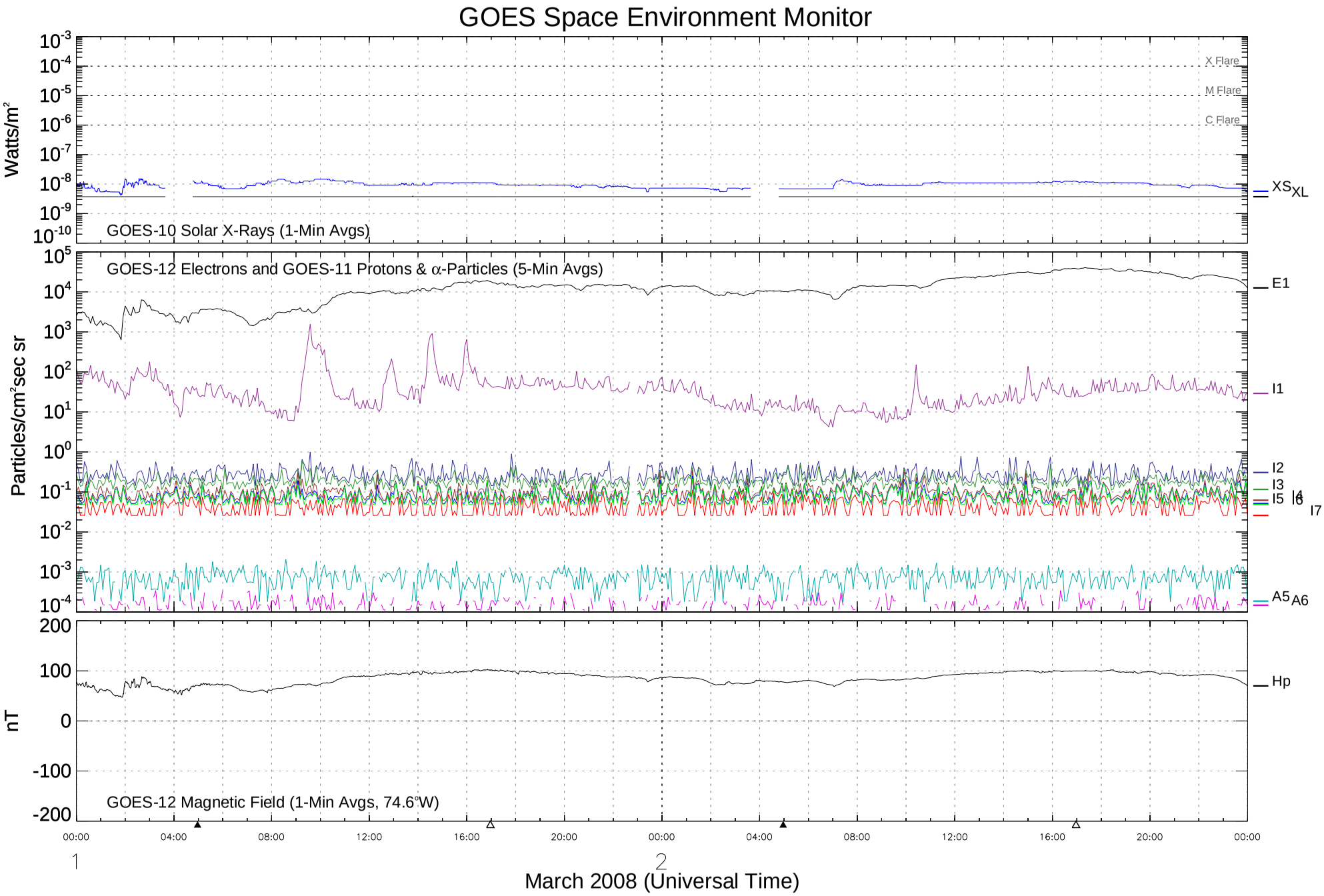
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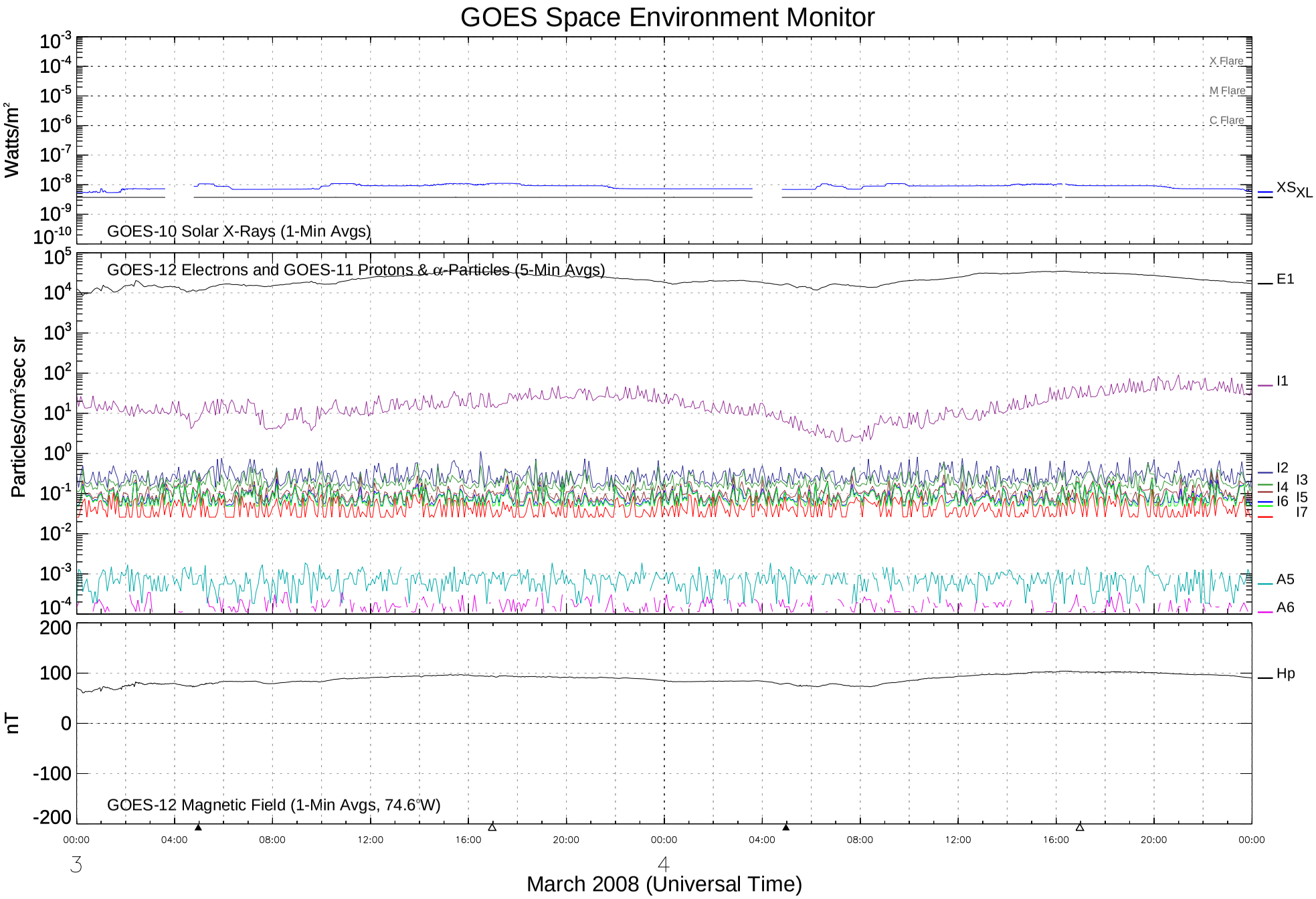
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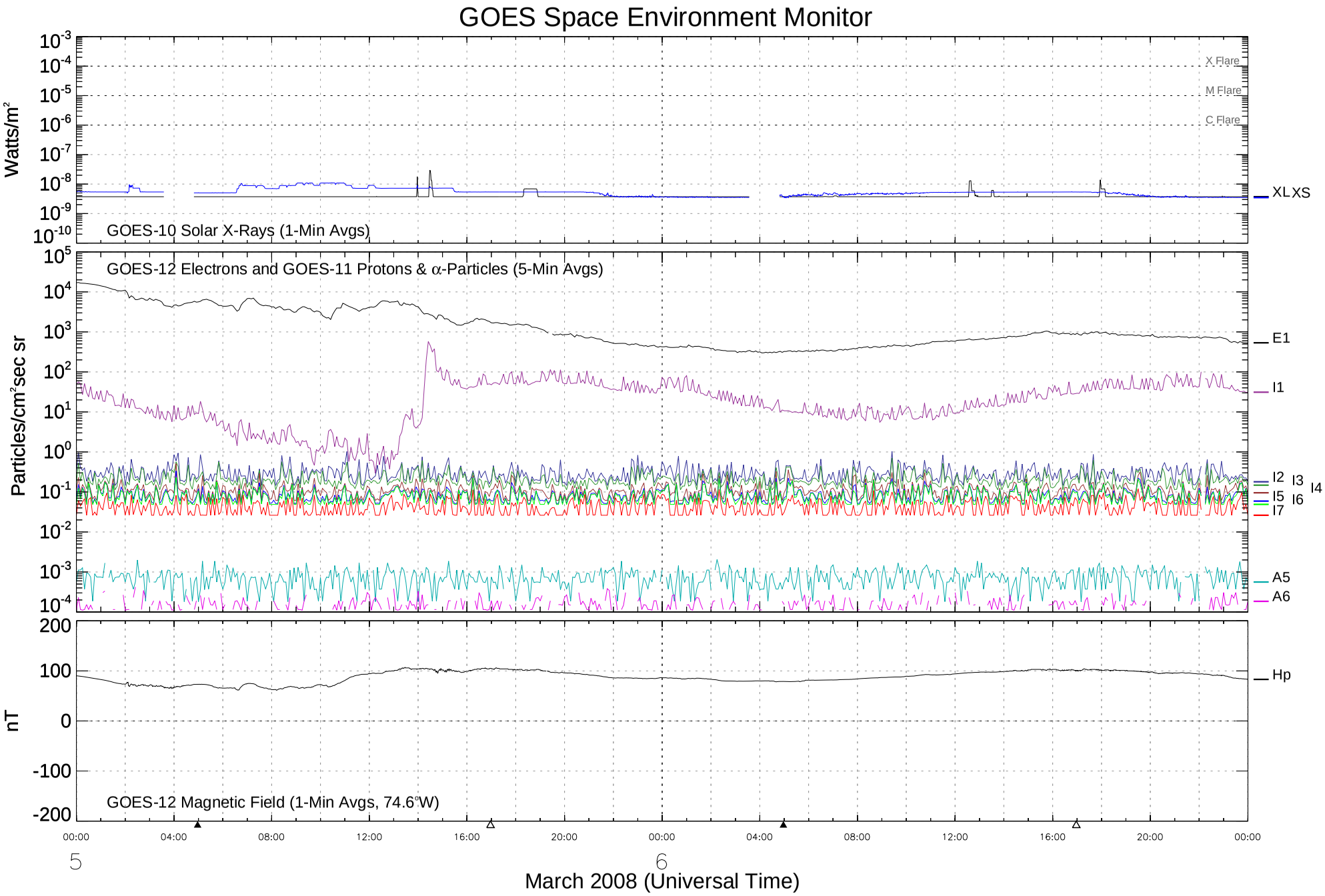
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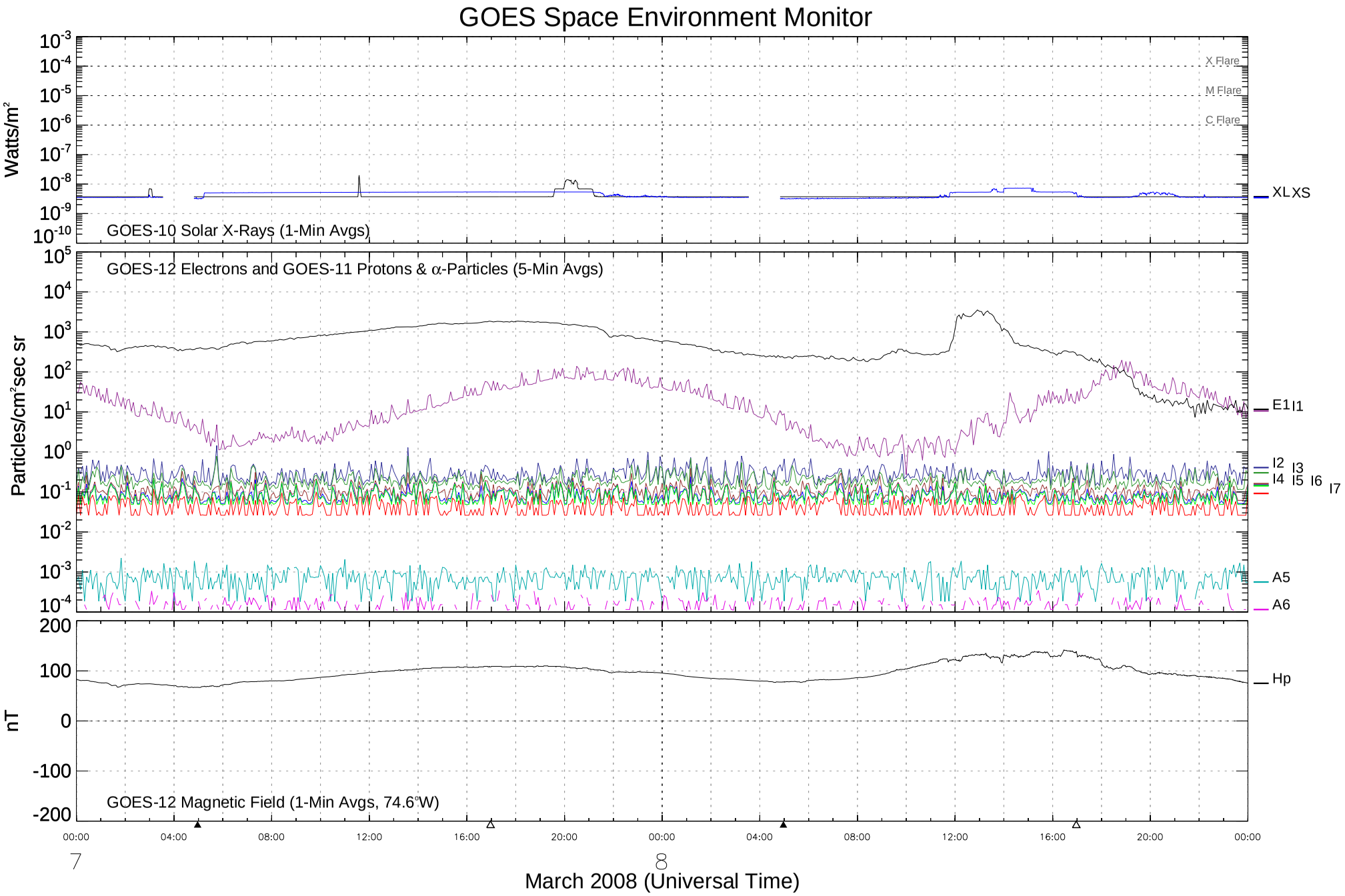
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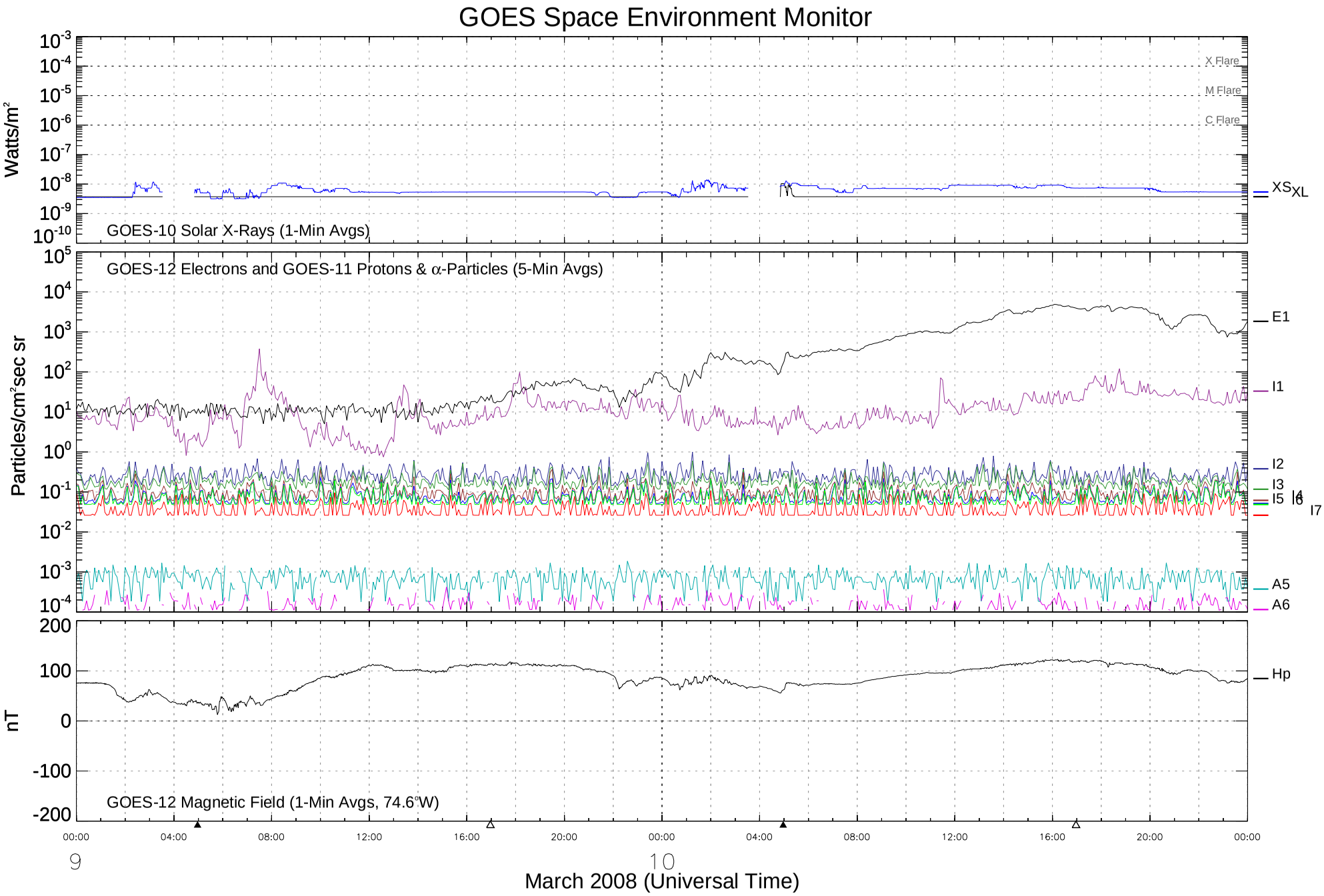
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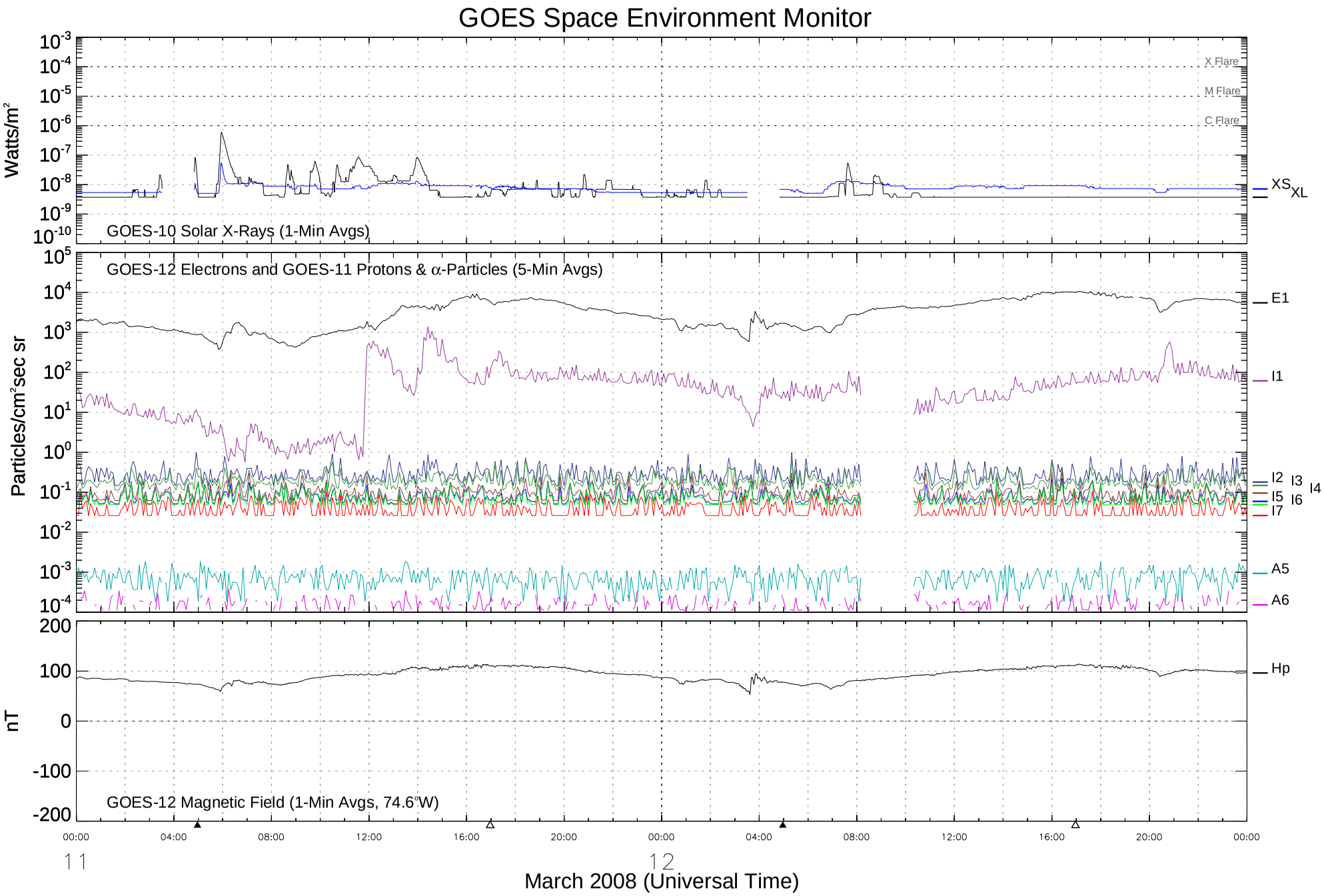
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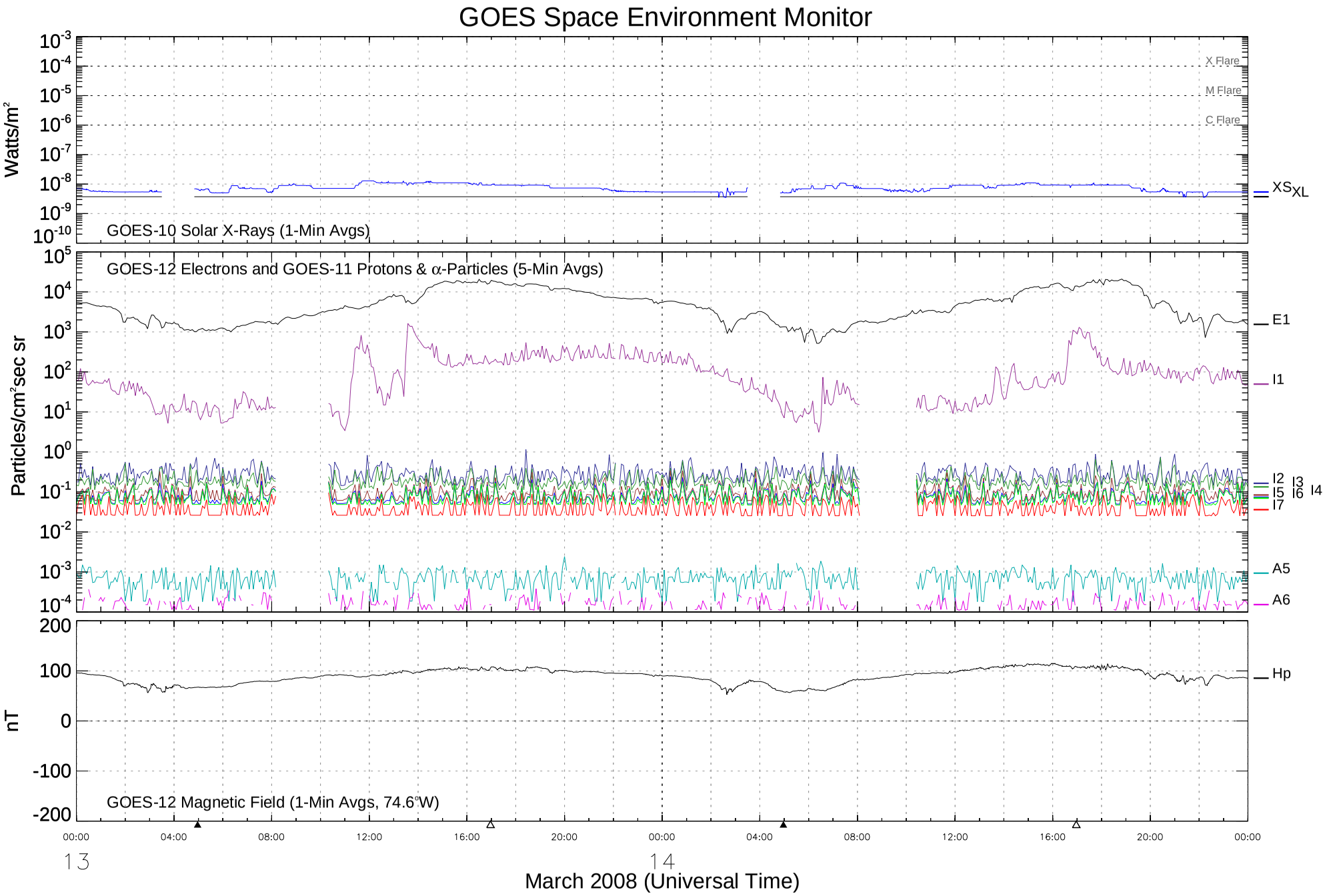
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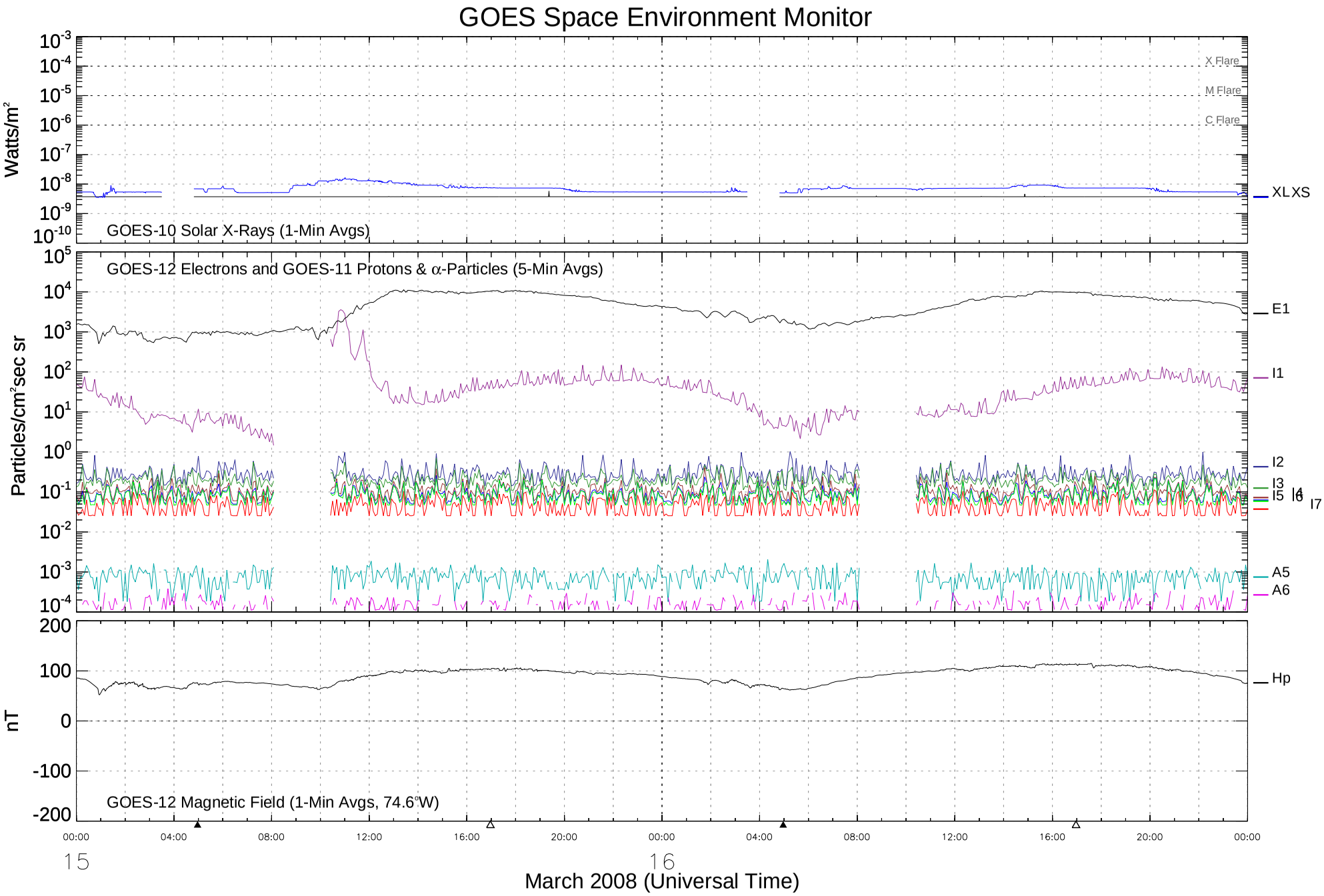
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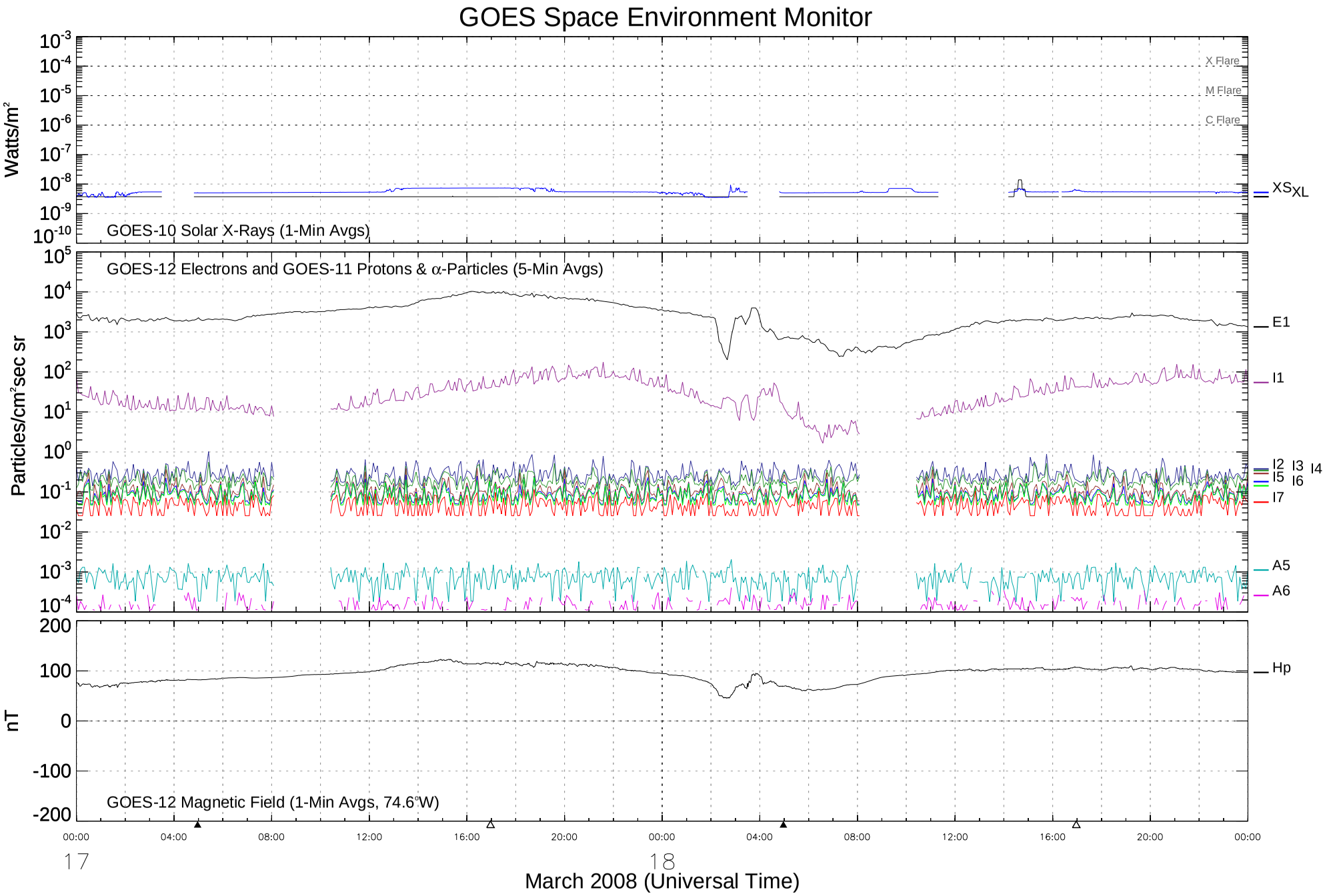
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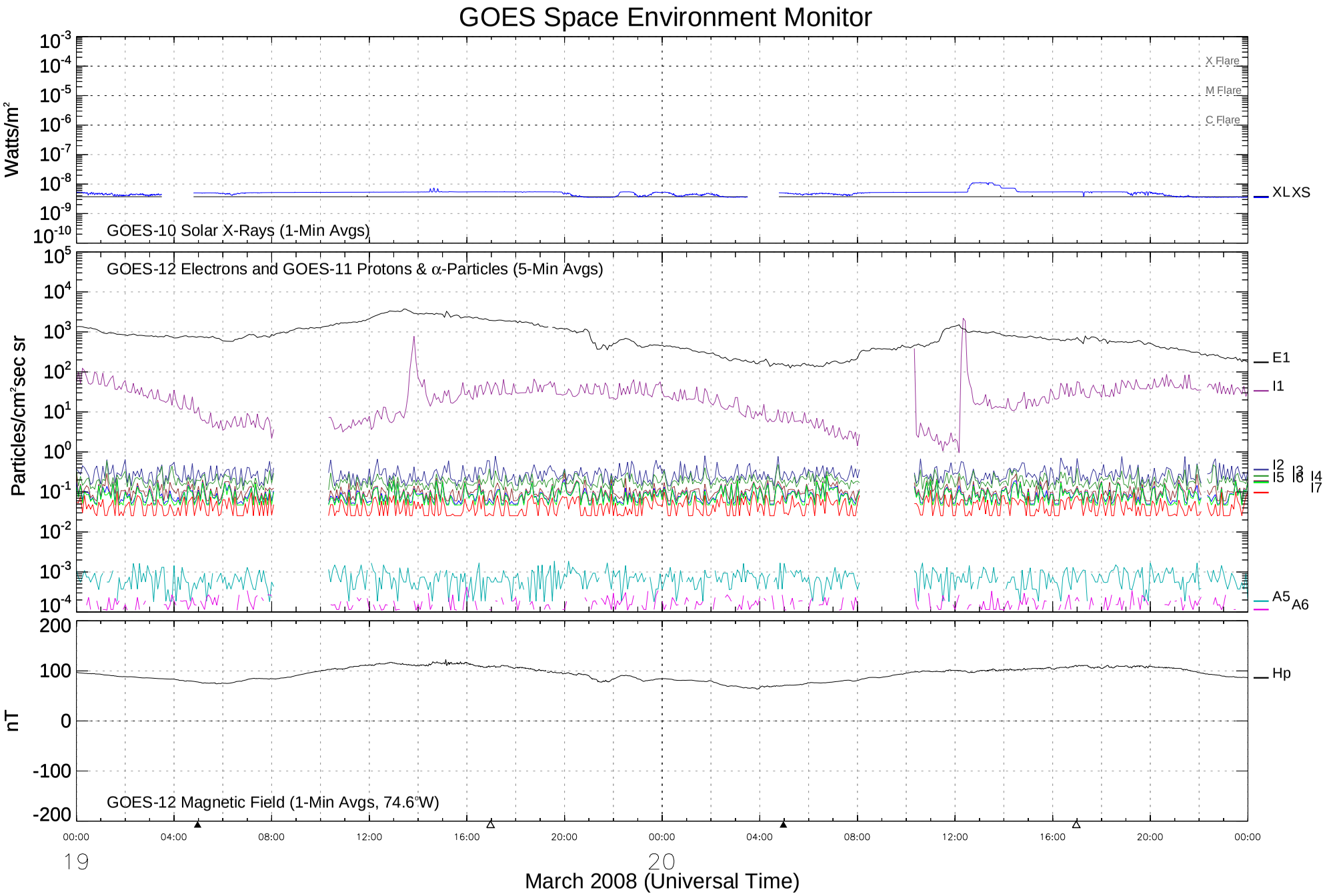
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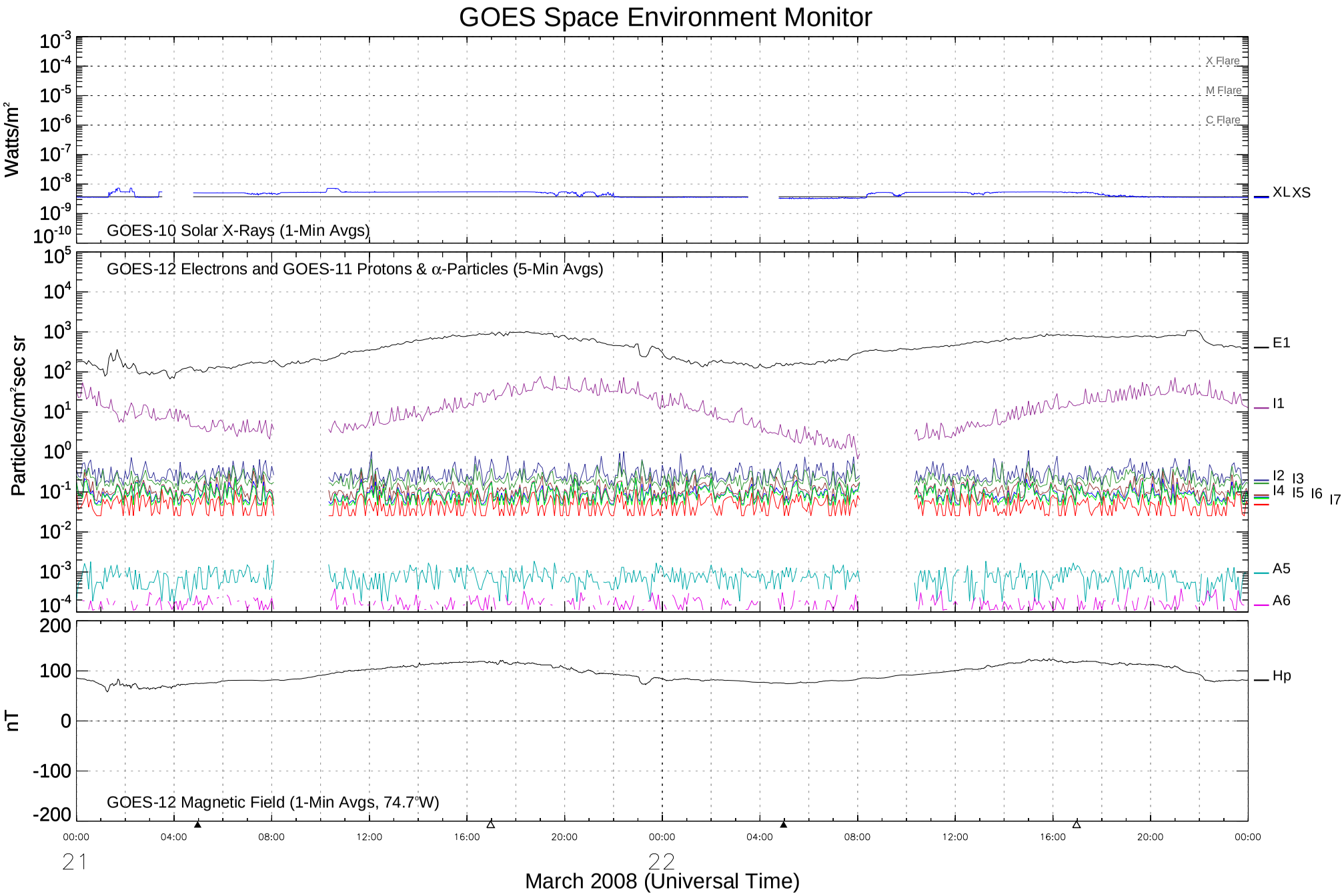
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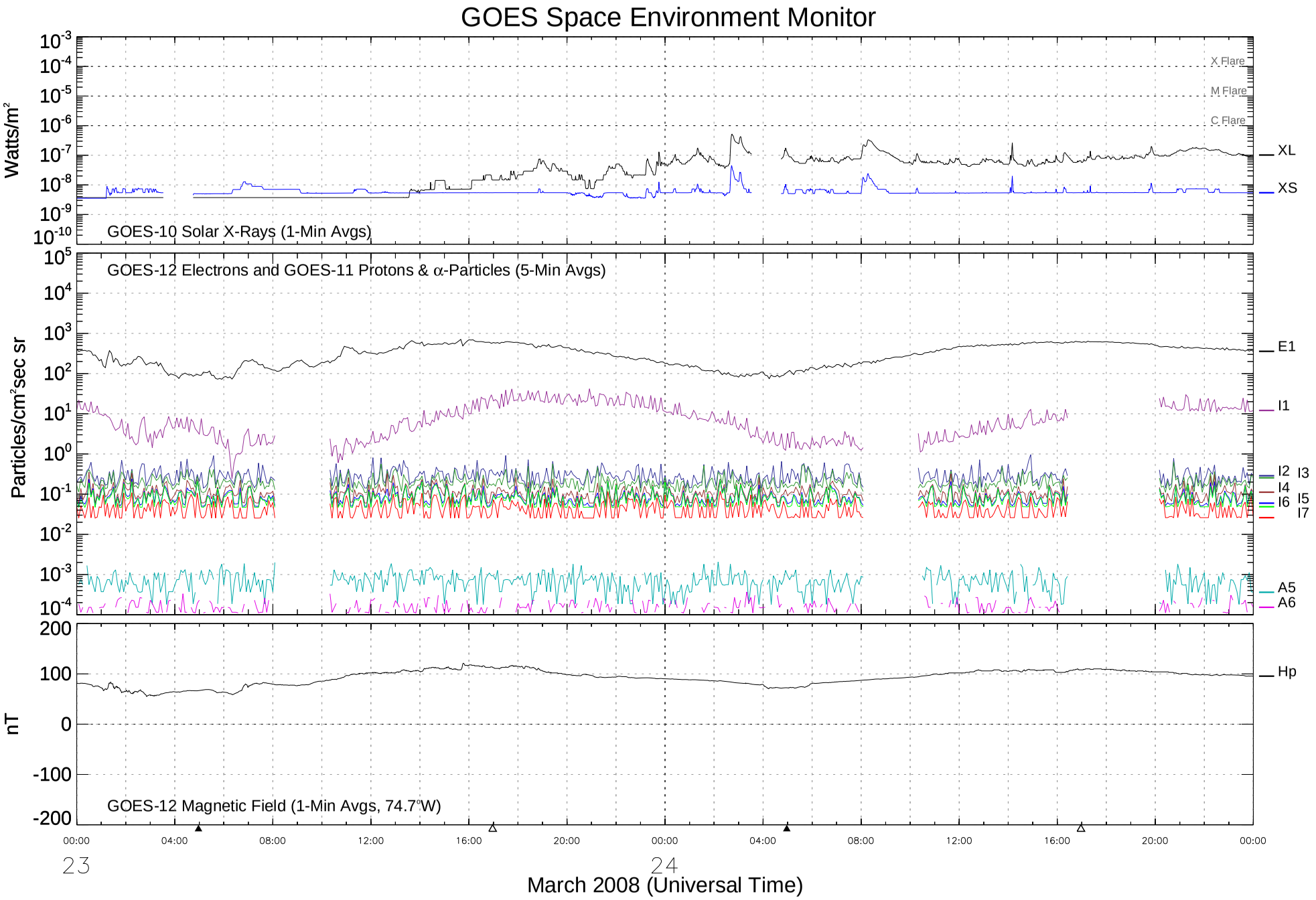
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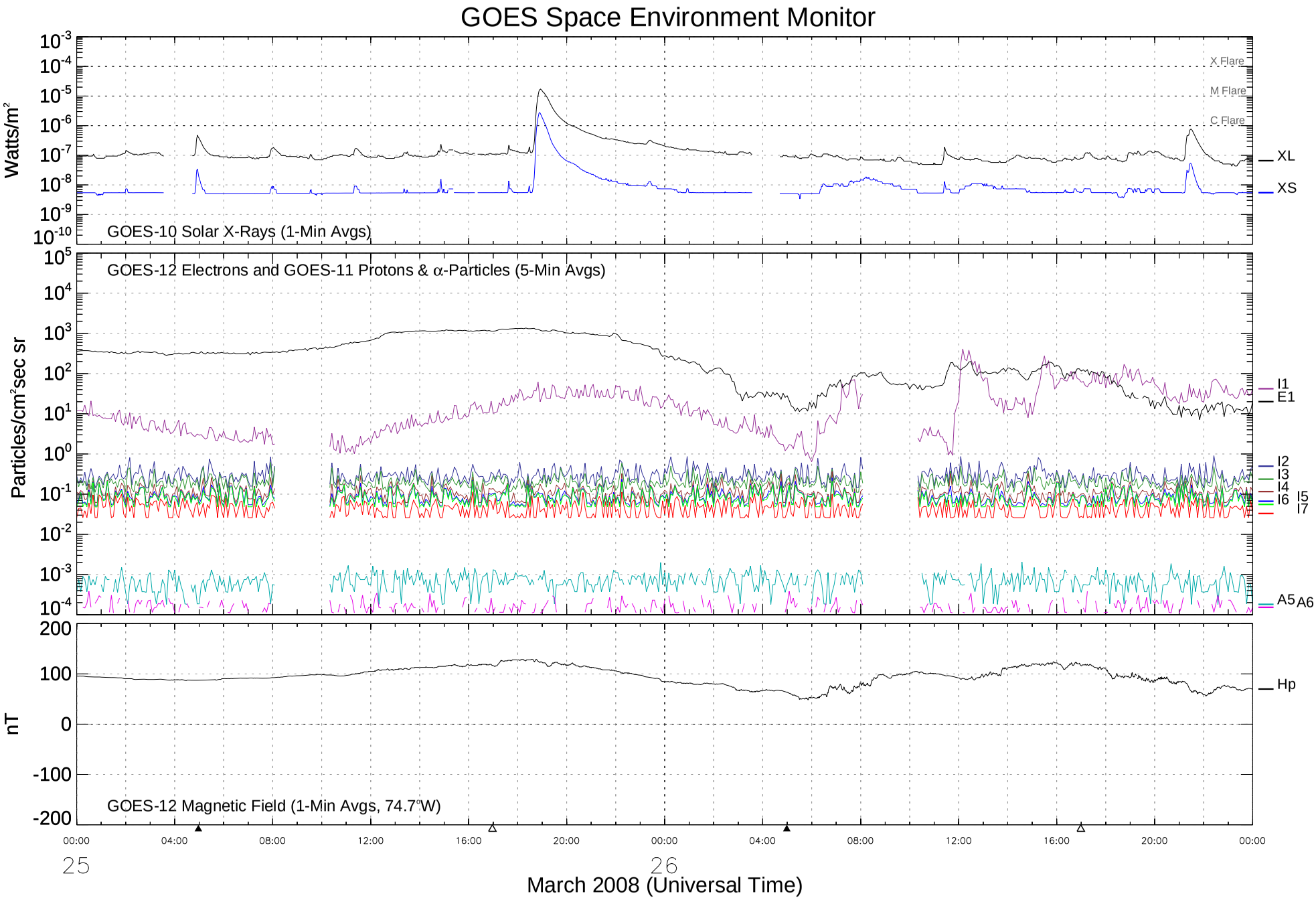
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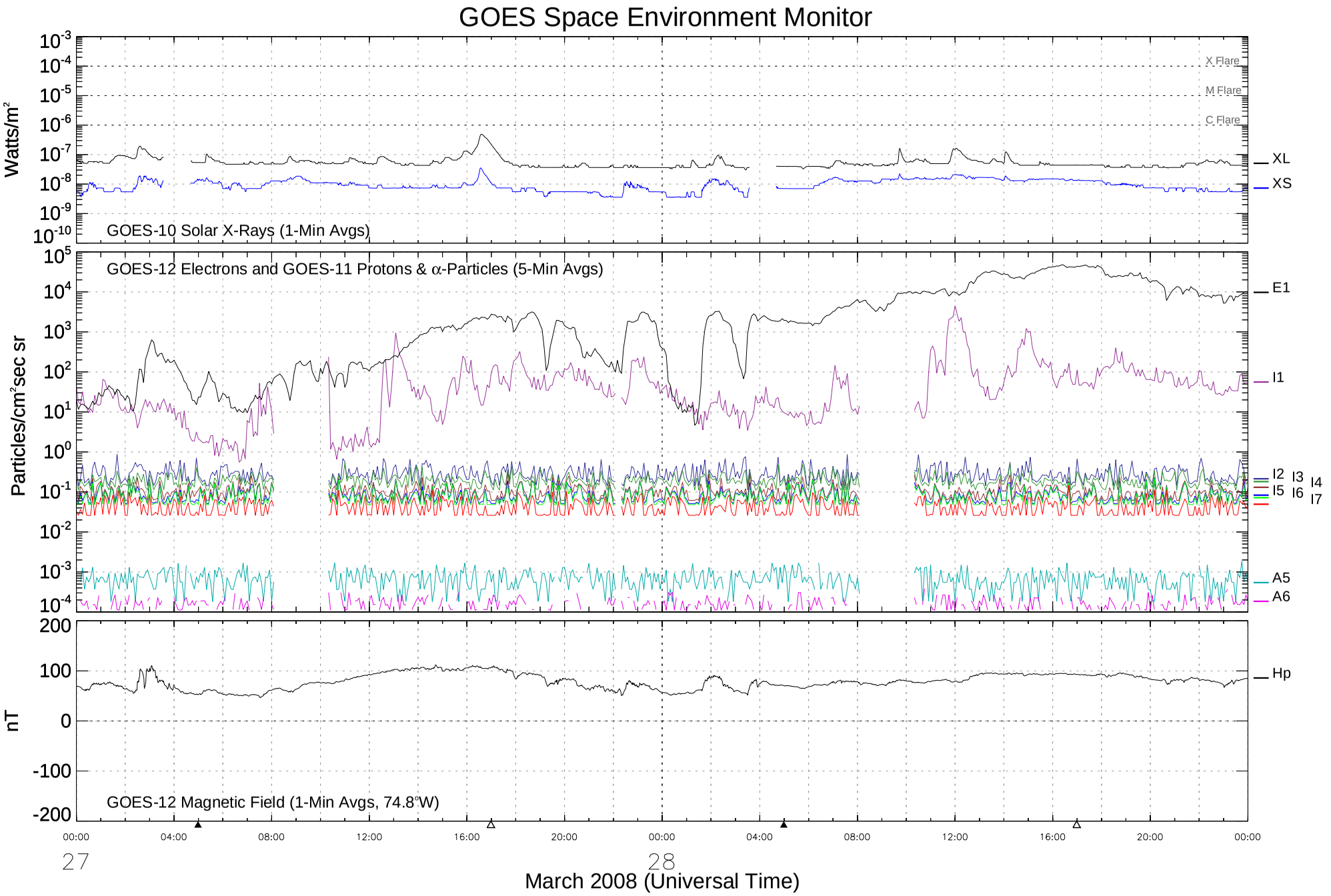
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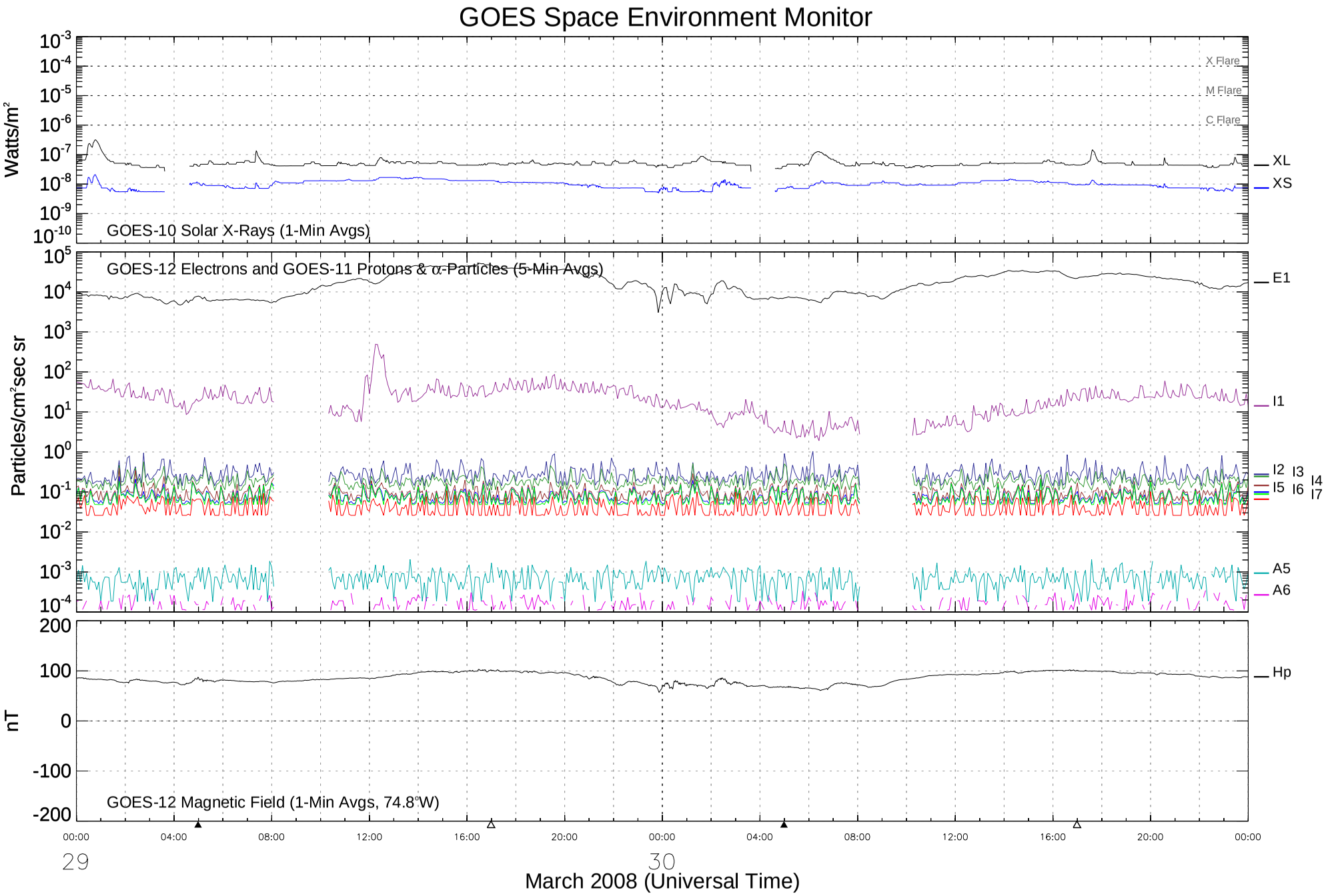
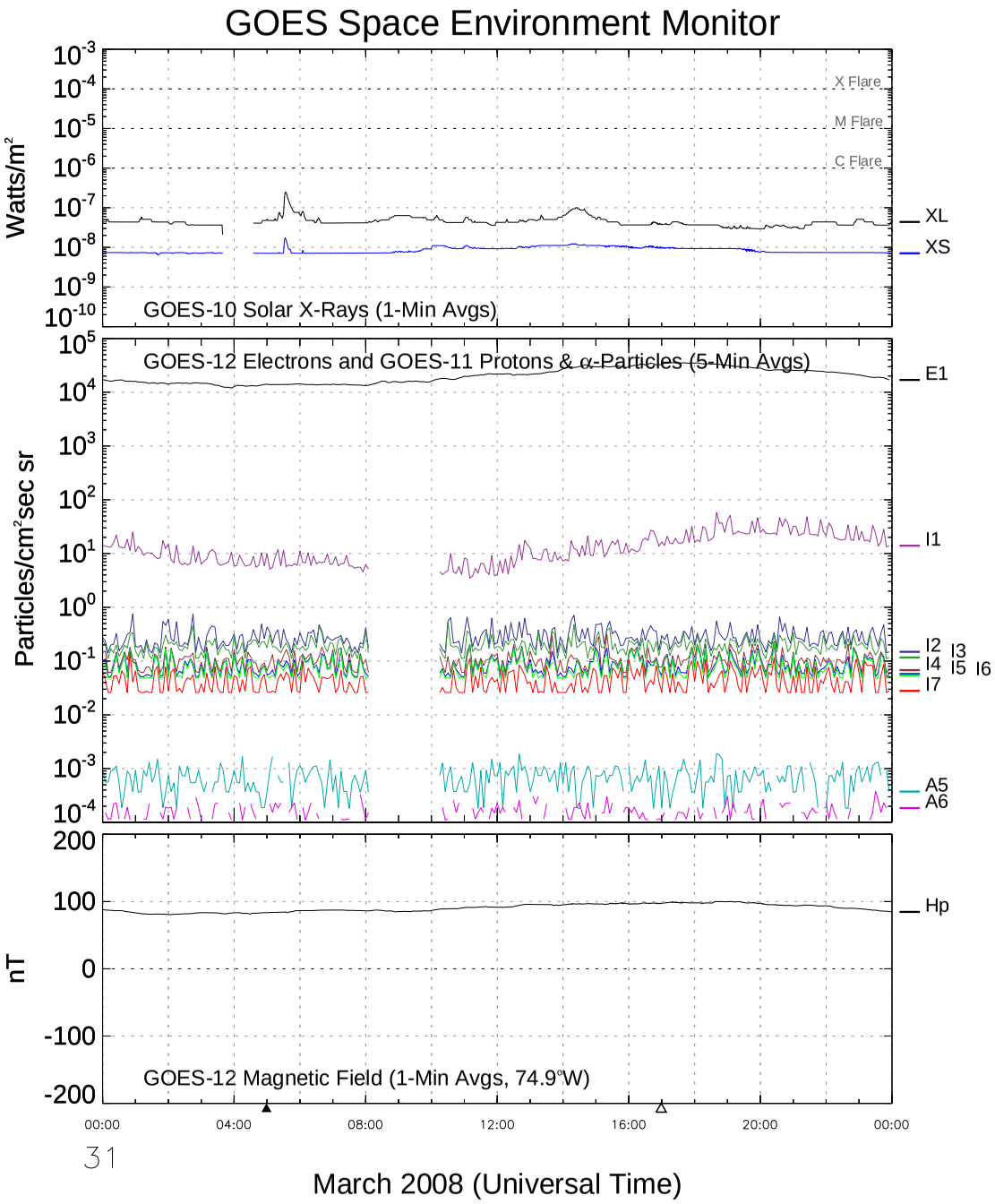
28
March 2008 (Universal Time)


GOES Space Environment Monitor
Watts/m²
X Flare
M Flare
C Flare
XL
XS
GOES-10 Solar X-Rays (1-Min Avgs)
GOES-12 Electrons and GOES-11 Protons & α-Particles (5-Min Avgs)
Particles/cm²sec sr
E1
I1
I2 I3 I4
I5 I6 I7
A5
A6
nT
Hp
GOES-12 Magnetic Field (1-Min Avgs, 74.8°W)
00:00 04:00 08:00 12:00 16:00 20:00 00:00 04:00 08:00 12:00 16:00 20:00 00:00
29
30
March 2008 (Universal Time)


GOES Space Environment Monitor
Watts/m²
X Flare
M Flare
C Flare
XL
XS
GOES-10 Solar X-Rays (1-Min Avgs)
GOES-12 Electrons and GOES-11 Protons & α-Particles (5-Min Avgs)
Particles/cm²sec sr
E1
I1
I2
I3
I4
I5
I6
I7
A5
A6
nT
Hp
GOES-12 Magnetic Field (1-Min Avgs, 74.9°W)
00:00
04:00
08:00
12:00
16:00
20:00
00:00
31
March 2008 (Universal Time)

A L E R T P E R I O D S
The International Space Environment Service

MARCH 2008

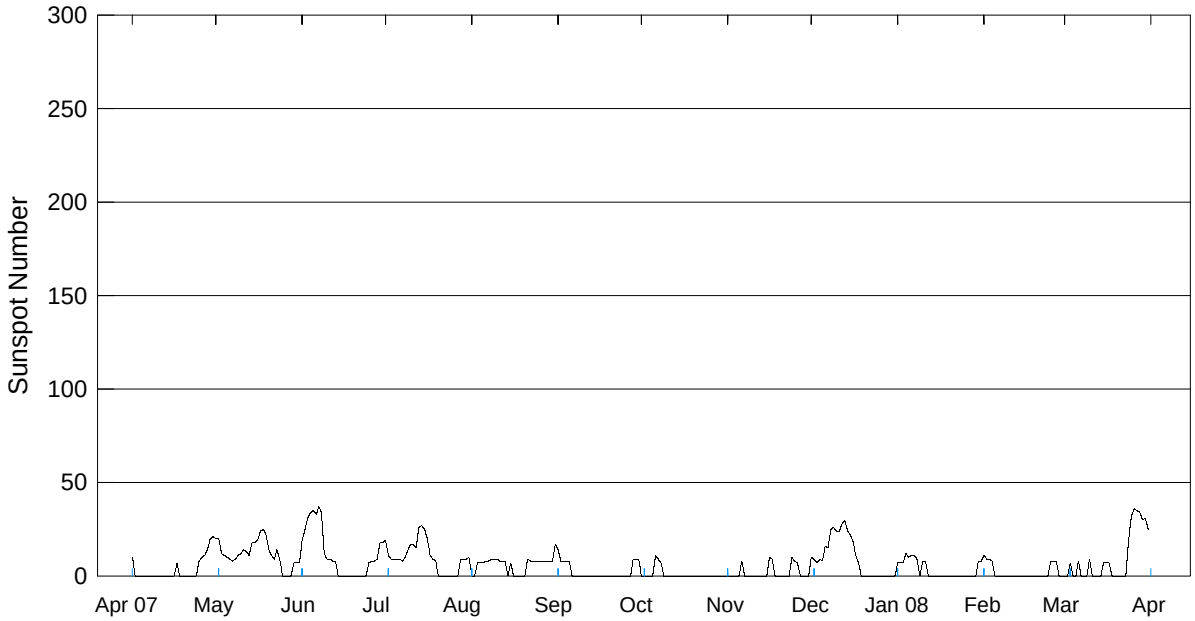
Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location Lat	Location Lon	Flares Opt	Flares M	Flares X	Date of Fcst	Region Fcst(1)	Geoadvice(1)
061	01	29	0	70	29				0	0	0	01		SOL: Quiet
									0	0	0	01		MAG: Quiet
									0	0	0	01		PRO: Quiet
062	02	01	0	69	19				0	0	0	02		SOL: Quiet
									0	0	0	02		MAG: Active
									0	0	0	02		PRO: Quiet
063	03	02	0	69	11				0	0	0	03		SOL: Quiet
									0	0	0	03		MAG: Quiet
									0	0	0	03		PRO: Quiet
064	04	03	0	68	7				0	0	0	04		SOL: Quiet
									0	0	0	04		MAG: Quiet
									0	0	0	04		PRO: Quiet
065	05	04	0	68	6				0	0	0	05		SOL: Quiet
									0	0	0	05		MAG: Quiet
									0	0	0	05		PRO: Quiet
066	06	05	13	69	10	10984	S05	W69	0	0	0	06	Q	SOL: Quiet
									0	0	0	06		MAG: Quiet
									0	0	0	06		PRO: Quiet
067	07	06	12	70	1	10984	S08	W80	0	0	0	07	Q	SOL: Quiet
									0	0	0	07		MAG: Quiet
									0	0	0	07		PRO: Quiet
068	08	07	0	71	2				0	0	0	08		SOL: Quiet
									0	0	0	08		MAG: Quiet
									0	0	0	08		PRO: Quiet
069	09	08	0	70	10				0	0	0	09		SOL: Quiet
									0	0	0	09		MAG: Active
									0	0	0	09		PRO: Quiet
070	10	09	0	70	21				0	0	0	10		SOL: Quiet
									0	0	0	10		MAG: Active
									0	0	0	10		PRO: Quiet
071	11	10	12	70	17	10985	S10	W83	0	0	0	11	Q	SOL: Quiet
									0	0	0	11		MAG: Active
									0	0	0	11		PRO: Quiet
072	12	11	0	70	12				0	0	0	12		SOL: Quiet
									0	0	0	12		MAG: Quiet
									0	0	0	12		PRO: Quiet
073	13	12	0	69	14				0	0	0	13		SOL: Quiet
									0	0	0	13		MAG: Quiet
									0	0	0	13		PRO: Quiet
074	14	13	0	70	13				0	0	0	14		SOL: Quiet
									0	0	0	14		MAG: Quiet
									0	0	0	14		PRO: Quiet
075	15	14	0	70	12				0	0	0	15		SOL: Quiet
									0	0	0	15		MAG: Quiet
									0	0	0	15		PRO: Quiet
076	16	15	12	70	10	10986	S04	W41	0	0	0	16	Q	SOL: Quiet
									0	0	0	16		MAG: Quiet
									0	0	0	16		PRO: Quiet
077	17	16	12	70	6	10986	S04	W56	0	0	0	17	Q	SOL: Quiet
									0	0	0	17		MAG: Quiet
									0	0	0	17		PRO: Quiet

A L E R T P E R I O D S
The International Space Environment Service

MARCH 2008

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location Lat	Location Lon	Flares Opt	Flares M	Flares X	Date of Fcst	Region Fcst(1)	Geoadvice(1)
078	18	17	11	70	4	10986	S04	W71	0	0	0	18	Q	SOL: Quiet
									0	0	0	18		MAG: Quiet
									0	0	0	18		PRO: Quiet
079	19	18	0	70	9				0	0	0	19		SOL: Quiet
									0	0	0	19		MAG: Quiet
									0	0	0	19		PRO: Quiet
080	20	19	0	69	6				0	0	0	20		SOL: Quiet
									0	0	0	20		MAG: Quiet
									0	0	0	20		PRO: Quiet
081	21	20	0	68	10				0	0	0	21		SOL: Quiet
									0	0	0	21		MAG: Quiet
									0	0	0	21		PRO: Quiet
082	22	21	0	68	5				0	0	0	22		SOL: Quiet
									0	0	0	22		MAG: Quiet
									0	0	0	22		PRO: Quiet
083	23	22	0	70	5				0	0	0	23		SOL: Quiet
									0	0	0	23		MAG: Quiet
									0	0	0	23		PRO: Quiet
084	24	23	14	72	9	10987	S08	E50	0	0	0	24	Q	SOL: Quiet
									0	0	0	24		MAG: Quiet
									0	0	0	24		PRO: Quiet
085	25	24	35	79	3	10987	S08	E36	2	0	0	25	Q	SOL: Quiet
						10988	S09	E59	1	0	0	25	Q	MAG: Quiet
									0	0	0	25		PRO: Quiet
086	26	25	52	89	4	10987	S08	E23	0	0	0	26	Q	SOL: Active
						10988	S09	E47	0	0	0	26	Q	MAG: Active
						10989	S10	E77	1	1	0	26	Q	PRO: Quiet
087	27	26	63	82	26	10987	S08	E09	0	0	0	27	Q	SOL: Eruptive
						10988	S09	E34	0	0	0	27	Q	MAG: Active
						10989	S12	E63	0	0	0	27	E	PRO: Quiet
088	28	27	57	85	22	10987	S07	W05	1	0	0	28	Q	SOL: Eruptive
						10988	S09	E20	0	0	0	28	Q	MAG: Active
						10989	S13	E48	0	0	0	28	Q	PRO: Quiet
089	29	28	63	83	25	10987	S08	W18	0	0	0	29	Q	SOL: Eruptive
						10988	S08	E07	0	0	0	29	Q	MAG: Active
						10989	S12	E36	0	0	0	29	Q	PRO: Quiet
090	30	29	50	83	11	10987	S06	W31	0	0	0	30	Q	SOL: Eruptive
						10988	S08	W06	0	0	0	30	Q	MAG: Quiet
						10989	S12	E23	0	0	0	30	Q	PRO: Quiet
091	31	30	41	81	9	10987	S06	W46	0	0	0	31	Q	SOL: Quiet
						10988	S06	W21	0	0	0	31	Q	MAG: Quiet
						10989	S12	E08	0	0	0	31	Q	PRO: Quiet

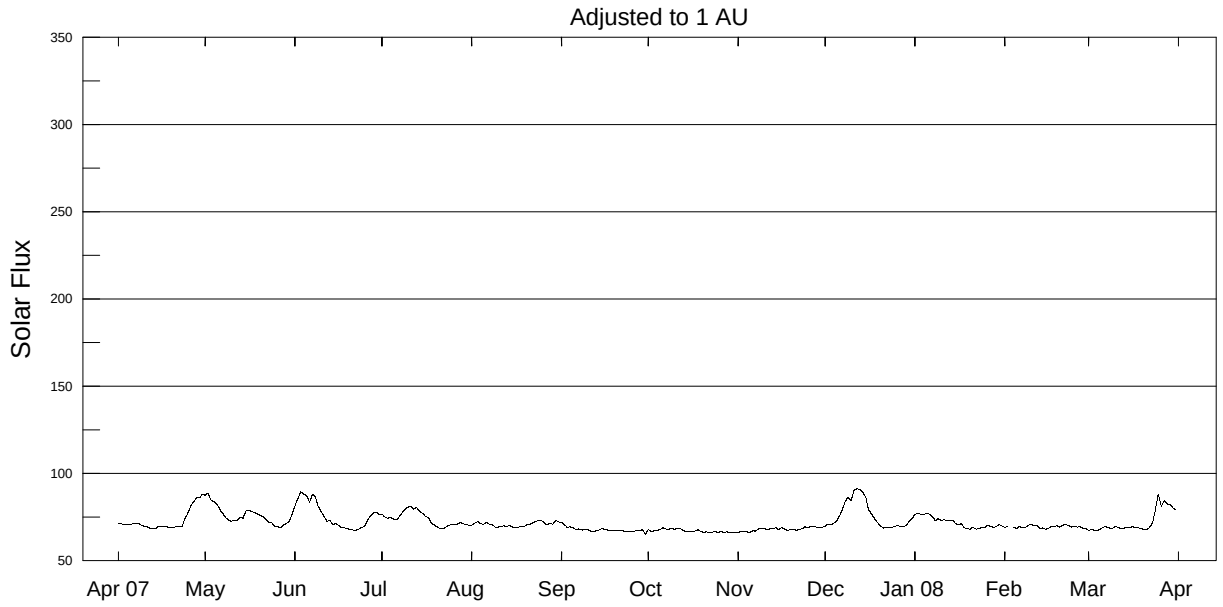
International Relative Sunspot Numbers
Apr 2007 - Mar 2008



Day	Apr 07	May	Jun	Jul	Aug	Sep	Oct*	Nov*	Dec*	Jan 08*	Feb*	Mar*
1	10	20	19	19	0	14	0	0	10	7	11	0
2	0	20	25	11	0	8	0	0	9	7	9	0
3	0	12	31	9	7	8	0	0	7	7	9	7
4	0	11	34	9	7	8	0	0	9	12	8	0
5	0	10	35	9	7	8	0	0	8	10	0	0
6	0	9	33	9	8	0	11	8	16	11	0	8
7	0	8	37	8	8	0	9	0	15	11	0	0
8	0	9	34	10	9	0	7	0	25	9	0	0
9	0	11	12	14	9	0	0	0	26	0	0	0
10	0	12	9	17	9	0	0	0	24	8	0	9
11	0	14	9	17	8	0	0	0	24	8	0	0
12	0	13	8	15	8	0	0	0	28	0	0	0
13	0	11	8	26	8	0	0	0	30	0	0	0
14	0	18	0	27	0	0	0	0	24	0	0	0
15	0	18	0	25	0	0	0	0	22	0	0	7
16	0	19	0	20	0	0	0	10	18	0	0	7
17	7	24	0	11	0	0	0	9	11	0	0	7
18	0	25	0	9	0	0	0	0	7	0	0	0
19	0	22	0	8	0	0	0	0	0	0	0	0
20	0	14	0	0	0	0	0	0	0	0	0	0
21	0	11	0	0	9	0	0	0	0	0	0	0
22	0	9	0	0	8	0	0	0	0	0	0	0
23	0	14	0	0	8	0	0	0	0	0	0	0
24	0	9	0	0	8	0	0	10	0	0	0	19
25	8	0	7	0	8	0	0	8	0	0	8	32
26	10	0	8	0	8	0	0	7	0	0	8	36
27	11	0	8	0	8	0	0	0	0	0	8	35
28	14	0	9	9	8	9	0	0	0	0	0	34
29	20	7	18	9	8	9	0	0	0	0	0	30
30	21	7	18	9	8	9	0	0	0	8		31
31		7		0	17		0		0	8		25
Mean	3.4	11.7	12.1	9.7	6.0	2.4	0.9	1.7	10.1	3.4	2.1	9.3

* = Provisional.

Penticton 2800 MHz (10.7cm) Solar Flux
Apr 2007 - Mar 2008



Day	Apr 07	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 08	Feb	Mar
1	71.6	87.6	81.6	76.8	70.4	72.1	67.8	66.3	69.9	76.7	69.0	67.4
2	71.1	88.8	85.6	75.1	71.5	70.6	66.5	66.8	71.0	77.0	69.8	68.0
3	70.8	84.4	89.5	74.2	72.4	69.1	67.3	66.5	70.5	76.7	*	67.3
4	70.8	83.9	88.2	74.9	71.4	69.4	67.4	66.5	71.5	76.4	69.3	67.2
5	71.0	82.4	87.1	73.9	70.9	68.8	67.8	66.2	73.1	77.1	68.5	68.2
6	71.1	79.4	83.6	73.5	72.0	67.8	68.9	67.3	75.9	76.6	69.6	69.3
7	71.4	77.1	88.1	75.5	71.0	68.2	68.1	66.9	79.8	75.2	68.9	69.5
8	71.3	74.7	86.8	77.6	71.0	67.6	67.9	68.4	84.4	73.0	69.0	68.8
9	70.2	73.5	81.0	79.7	69.3	67.7	68.6	68.2	86.2	74.0	70.3	68.5
10	69.7	72.6	78.2	80.8	69.3	67.9	67.9	68.4	84.3	73.2	70.7	69.4
11	69.5	72.9	75.6	81.1	69.5	67.0	68.6	67.7	90.5	73.5	70.2	69.3
12	68.6	72.9	72.6	79.5	70.0	66.7	68.3	68.3	91.1	73.2	70.3	68.5
13	68.6	75.0	73.1	80.6	69.5	67.2	67.3	68.4	90.9	72.9	68.7	68.7
14	68.6	74.4	70.6	78.2	70.3	67.6	66.7	68.9	89.0	73.1	68.8	69.1
15	69.8	78.5	71.3	77.1	69.3	68.5	66.8	67.7	86.1	71.3	68.0	68.8
16	69.8	78.9	70.2	75.3	69.0	67.8	66.7	69.1	79.1	70.6	68.6	69.6
17	69.8	78.3	68.9	74.7	69.3	67.6	67.0	68.2	76.9	71.3	69.4	69.1
18	69.3	77.6	68.8	71.8	69.6	67.1	67.7	67.2	74.4	68.8	69.5	69.0
19	68.9	76.6	68.5	70.5	69.4	67.4	66.8	67.9	72.1	68.6	70.0	68.4
20	69.1	75.9	67.8	69.5	70.7	67.4	66.3	68.0	70.2	68.0	69.3	67.9
21	69.4	75.0	67.6	68.6	70.9	67.4	66.6	67.4	68.7	69.3	70.3	67.7
22	69.7	73.7	67.5	68.3	71.6	67.2	66.0	68.0	69.1	68.1	70.8	69.1
23	69.8	71.9	68.1	69.3	72.4	66.8	66.4	68.3	69.1	68.4	70.1	71.5
24	74.0	71.7	69.1	70.2	73.2	66.5	66.8	69.5	69.1	69.1	69.3	79.0
25	77.4	69.9	69.8	70.8	73.1	66.6	66.3	68.8	69.7	68.9	69.9	88.2
26	81.5	69.5	72.8	70.6	71.6	66.8	66.7	69.6	70.2	70.3	69.3	81.2
27	83.8	68.8	75.7	70.9	70.7	67.4	66.2	69.6	69.7	69.8	69.4	84.5
28	86.1	70.5	77.4	72.1	71.6	67.4	66.6	69.3	69.5	69.2	68.7	82.6
29	86.0	71.5	77.8	71.1	71.0	67.8	66.2	69.3	70.3	69.5	68.5	82.4
30	88.2	72.6	76.4	71.0	73.0	65.1	66.3	69.2	72.5	70.6		80.4
31		76.7		70.1	72.2		66.1		74.2	69.9		79.1
Mean	72.9	76.0	76.0	74.0	70.9	67.8	67.1	68.1	76.1	71.9	69.4	72.2

* = No data available.

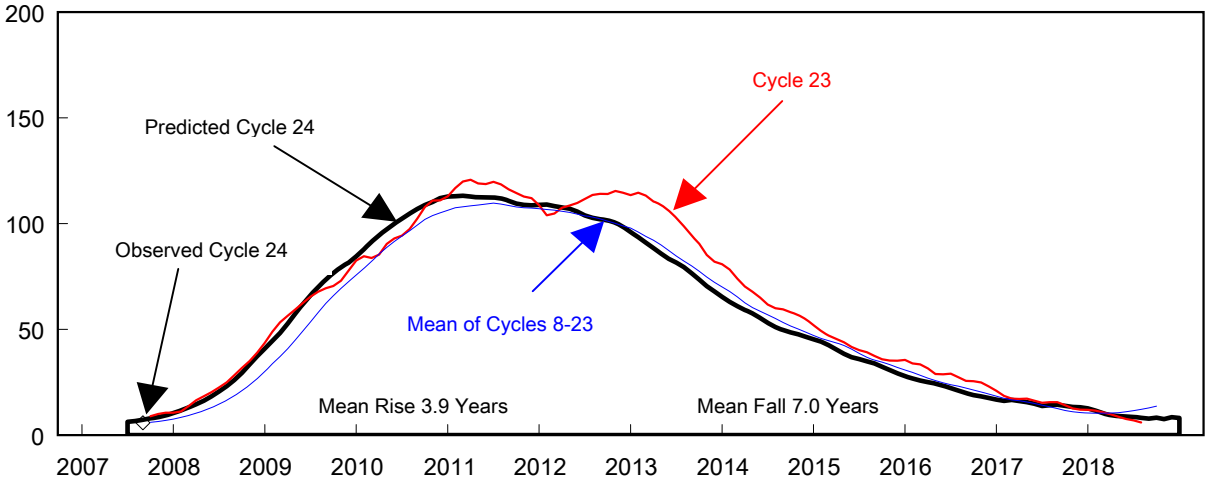
DAILY SOLAR INDICES

March 2008

	Day	Bartels	Sunspot		Obs Flux				-----Solar Flux Adjusted to 1 Astronomical Unit--------					
	of	Cycle	Numbers		Penticton	SGMR	SGMR	SGMR	Penticton	SGMR	SGMR	SGMR	SGMR	SGMR
Day	Year	Day	Int	Amer	(2800)	(15400)	(8800)	(4995)	(2800)	(2695)	(1415)	(610)	(410)	(245)
1	61	19	0	0	68.6	414	167	121	67.4	63	48	31	22	10
2	62	20	0	0	69.2	449	178	125	68.0	61	48	35	22	10
3	63	21	7	3	68.4	432	168	120	67.3	60	48	35	21	12
4	64	22	0	1	68.3	432	174	133	67.2	60	49	33	19	11
5	65	23	0	1	69.3	391	175	117	68.2	59	50	33	21	10
6	66	24	8	4	70.3	450	177	151	69.3	63	49	30	21	11
7	67	25	0	0	70.5	446	181	130	69.5	62	49	34	22	11
8	68	26	0	0	69.8	401	173	121	68.8	66	49	34	21	10
9	69	27	0	0	69.5	445	174	125	68.5	60	48	35	22	11
10	70	1	9	4	70.3	444	179	127	69.4	63	49	34	22	12
11	71	2	0	1	70.2	449	178	127	69.3	64	50	34	21	11
12	72	3	0	0	69.4	417	168	120	68.5	62	49	32	20	11
13	73	4	0	0	69.5	452	178	127	68.7	62	49	34	21	11
14	74	5	0	0	69.9	448	179	132	69.1	65	50	34	21	9
15	75	6	7	4	69.5	399	167	111	68.8	57	46	33	20	10
16	76	7	7	3	70.3	428	172	126	69.6	65	49	35	22	10
17	77	8	7	2	69.8	451	181	127	69.1	65	50	36	21	10
18	78	9	0	1	69.6	453	180	128	69.0	67	51	35	21	10
19	79	10	0	0	69.0	328	109	115	68.4	62	48	33	21	13
20	80	11	0	0	68.4	366	176	127	67.9	65	49	35	22	11
21	81	12	0	0	68.2	448	177	126	67.7	64	49	32	21	12
22	82	13	0	0	69.6	451	174	126	69.1	62	50	34	18	10
23	83	14	0	5	72.0	453	179	129	71.5	67	51	32	21	10
24	84	15	19	25	79.4	455	186	137	79.0	73	54	37	24	14
25	85	16	32	38	88.6	449	191	145	88.2	83	60	40	26	16
26	86	17	36	42	81.6	453	179	149	81.2	82	62	33	23	17
27	87	18	35	39	84.8	456	185	154	84.5	83	63	43	27	23
28	88	19	34	37	82.9	329	167	131	82.6	78	61	36	21	8
29	89	20	30	36	82.6	450	182	137	82.4	79	62	40	23	12
30	90	21	31	33	80.5	450	182	137	80.4	78	61	40	24	12
31	91	22	25	24	79.2	425	183	134	79.1	74	59	33	22	12
MEAN			9.3	9.8	72.9	429	174	129	72.2	66	51	34	21	11

NOTE: Radio flux values are from Sagamore Hill, Massachusetts, USA.

Cycle 24 Smoothed Sunspot Numbers: Observed and Predicted
PRELIMINARY Based on September 2007 Smoothed Data



Smoothed Sunspot Numbers (Observed and Predicted) for Parts of Solar Cycles 23 and 24

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1996	10	10	10	9	8*	9	8	8	8	9**	10	10	8
1997	11	11	14	17	18	20	23	25	28	32	35	39	23
1998	44	49	53	57	59	63	65	68	69	71	73	78	62
1999	83	85	84	85	90	93	94	98	102	108	111	111	95
2000	113	117	120	120.8+	119	119	120	119	116	115	113	112	107
2001	109	104	105	108	109	110	112	114	114	114	115	115	111
2002	114	115	113	111	109	106	103	99	95	91	85	82	102
2003	81	79	74	70	68	65	62	60	60	58	57	57	66
2004	53	49	47	46	46	42	40	39	38	36	35	35	42
2005	35	34	34	32	29	29	29	27	26	26	25	23	29
2006	21	19	17	17	17	16	15	16	16	14	13	13	16
2007	12	12	11	10	9	8	7	6	6##	6	7	7	8
										(0)	(1)	(2)	(0)
2008	8	8	9	11	12	13	15	17	19	21	24	27	15
	(3)	(4)	(5)	(6)	(7)	(8)	(10)	(12)	(14)	(16)	(18)	(21)	(10)
2009	30	34	37	41	45	49	54	58	62	66	69	73	52
	(23)	(26)	(29)	(32)	(35)	(39)	(43)	(47)	(50)	(53)	(55)	(58)	(41)

Solar Cycle 22 | Solar Cycle 23

*** May 1996 marks Cycle 22's mathematical minimum.** **** October 1996 marks the consensus minimum.**

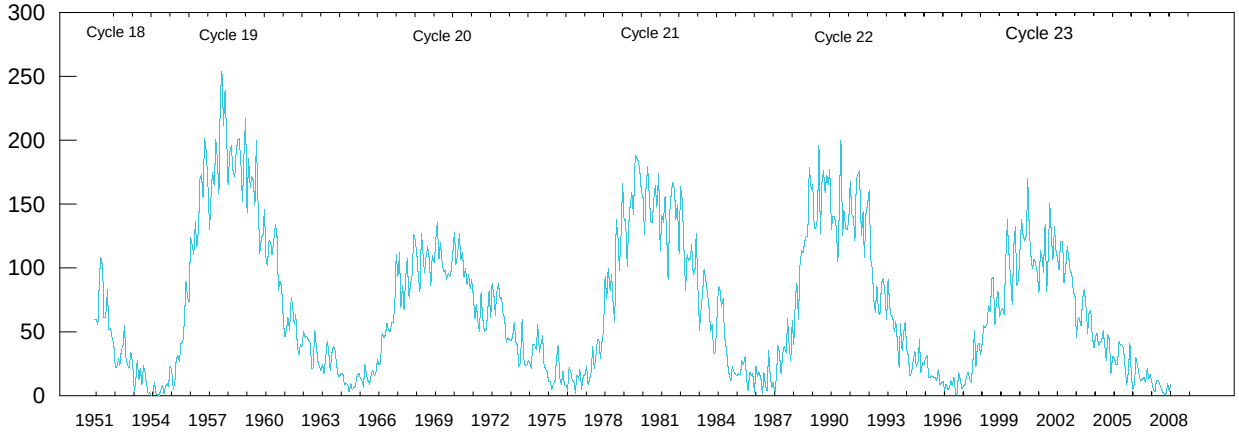
+ April 2000 marks Cycle 23 maximum. ## - Preliminary Cycle 24 Minumum

NOTE: This is a preliminary prediction using September 2007 as solar minimum.

OBSERVED AND PREDICTED NUMBERS: For the end of Cycle 23, and the rise and decline of Cycle 24, 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 Sep 2007 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 September 2008 prediction. There exists a 90% chance that in September 2008, the actual smoothed number will fall somewhere between 5 and 33.

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 16 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 a PRELIMINARY minimum of September, 2007. This will be updated monthly until the actual minimum is reached.

Mean Monthly Sunspot Numbers
Jan 1951 -Mar 2008



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean	
1951	59.9	59.9	55.9	92.9	108.5	100.6	61.5	61.0	83.1	51.6	52.4	45.8	69.4	
1952	40.7	22.7	22.0	29.1	23.4	36.4	39.3	54.9	28.2	23.8	22.1	34.3	31.5	
1953	26.5	3.9	10.0	27.8	12.5	21.8	8.6	23.5	19.3	8.2	1.6	2.5	13.9	
1954	0.2	0.5	10.9	1.8	0.8	0.2	4.8	8.4	1.5	7.0	9.2	7.6	4.4	m
1955	23.1	20.8	4.9	11.3	28.9	31.7	26.7	40.7	42.7	58.5	89.2	76.9	38.0	
1956	73.6	124.0	118.4	110.7	136.6	116.6	129.1	169.6	173.2	155.3	201.3	192.1	141.7	
1957	165.0	130.2	157.4	175.2	164.6	200.7	187.2	158.0	235.8	253.8	210.9	239.4	190.2	M
1958	202.5	164.9	190.7	196.0	175.3	171.5	191.4	200.2	201.2	181.5	152.3	187.6	184.8	
1959	217.4	143.1	185.7	163.3	172.0	168.7	149.6	199.6	145.2	111.4	124.0	125.0	159.0	
1960	146.3	106.0	102.2	122.0	119.6	110.2	121.7	134.1	127.2	82.8	89.6	85.6	122.3	
1961	57.9	46.1	53.0	61.4	51.0	77.4	70.2	55.8	63.6	37.7	32.6	39.9	53.9	
1962	38.7	50.3	45.6	46.4	43.7	42.0	21.8	21.8	51.3	39.5	26.9	23.2	37.6	
1963	19.8	24.4	17.1	29.3	43.0	35.9	19.6	33.2	38.8	35.3	23.4	14.9	27.9	
1964	15.3	17.7	16.5	8.6	9.5	9.1	3.1	9.3	4.7	6.1	7.4	15.1	10.2	m
1965	17.5	14.2	11.7	6.8	24.1	15.9	11.9	8.9	16.8	20.1	15.8	17.0	15.1	
1966	28.2	24.4	25.3	48.7	45.3	47.7	56.7	51.2	50.2	57.2	57.2	70.4	47.0	
1967	110.9	93.6	111.8	69.5	86.5	67.3	91.5	107.2	76.8	88.2	94.3	126.4	93.8	
1968	121.8	111.9	92.2	81.2	127.2	110.3	96.1	109.3	117.2	107.7	86.0	109.8	105.9	M
1969	104.4	120.5	135.8	106.8	120.0	106.0	96.8	98.0	91.3	95.7	93.5	97.9	105.5	
1970	111.5	127.8	102.9	109.5	127.5	106.8	112.5	93.0	99.5	86.6	95.2	83.5	104.5	
1971	91.3	79.0	60.7	71.8	57.5	49.8	81.0	61.4	50.2	51.7	63.2	82.2	66.6	
1972	61.5	88.4	80.1	63.2	80.5	88.0	76.5	76.8	64.0	61.3	41.6	45.3	68.9	
1973	43.4	42.9	46.0	57.7	42.4	39.5	23.1	25.6	59.3	30.7	23.9	23.3	38.0	
1974	27.6	26.0	21.3	40.3	39.5	36.0	55.8	33.6	40.2	47.1	25.0	20.5	34.5	
1975	18.9	11.5	11.5	5.1	9.0	11.4	28.2	39.7	13.9	9.1	19.4	7.8	15.5	
1976	8.1	4.3	21.9	18.8	12.4	12.2	1.9	16.4	13.5	20.6	5.2	15.3	12.6	m
1977	16.4	23.1	8.7	12.9	18.6	38.5	21.4	30.1	44.0	43.8	29.1	43.2	27.5	
1978	51.9	93.6	76.5	99.7	82.7	95.1	70.4	58.1	138.2	125.1	97.9	122.7	92.5	
1979	166.6	137.5	138.0	101.5	134.4	149.5	159.4	142.2	188.4	186.2	183.3	176.3	155.4	M
1980	159.6	155.0	126.2	164.1	179.9	157.3	136.3	135.4	155.0	164.7	147.9	174.4	154.6	
1981	114.0	141.3	135.5	156.4	127.5	90.9	143.8	158.7	167.3	162.4	137.5	150.1	140.4	
1982	111.2	163.6	153.8	122.0	82.2	110.4	106.1	107.6	118.8	94.7	98.1	127.0	115.9	
1983	84.3	51.0	66.5	80.7	99.2	91.1	82.2	71.8	50.3	55.8	33.3	33.4	66.6	
1984	57.0	85.4	83.5	69.7	76.4	46.1	37.4	25.5	15.7	12.0	22.8	18.7	45.9	
1985	16.5	15.9	17.2	16.2	27.5	24.2	30.7	11.1	3.9	18.6	16.2	17.3	17.9	
1986	2.5	23.2	15.1	18.5	13.7	1.1	18.1	7.4	3.8	35.4	15.2	6.8	13.4	m
1987	10.4	2.4	14.7	39.6	33.0	17.4	33.0	38.7	33.9	60.6	39.9	27.1	29.4	
1988	59.0	40.0	76.2	88.0	60.1	101.8	113.8	111.6	120.1	125.1	125.1	179.2	100.2	
1989	161.3	165.1	131.4	130.6	138.5	196.2	126.9	168.9	176.7	159.4	173.0	165.5	157.6	M
1990	177.3	130.5	140.3	140.3	132.2	105.4	149.4	200.3	125.2	145.5	131.4	129.7	142.6	
1991	136.9	167.5	141.9	140.0	121.3	169.7	173.7	176.3	125.3	144.1	108.2	144.4	145.7	
1992	150.0	161.1	106.7	99.8	73.8	65.2	85.7	64.5	63.9	88.7	91.8	82.6	94.3	
1993	59.3	91.0	69.8	62.2	61.3	49.8	57.9	42.2	22.4	56.4	35.6	48.9	54.6	
1994	57.8	35.5	31.7	16.1	17.8	28.0	35.1	22.5	25.7	44.0	18.0	26.2	29.9	
1995	24.2	29.9	31.1	14.0	14.5	15.6	14.5	14.3	11.8	21.1	9.0	10.0	17.5	
1996	11.5	4.4	9.2	4.8	5.5	11.8	8.2	14.4	1.6	0.9	17.9	13.3	8.6	m
1997	5.7	7.6	8.7	15.5	18.5	12.7	10.4	24.4	51.3	22.8	39.0	41.2	21.5	
1998	31.9	40.3	54.8	53.4	56.3	70.7	66.6	92.2	92.9	55.5	74.0	81.9	64.3	
1999	62.0	66.3	68.8	63.7	106.4	137.7	113.5	93.7	71.5	116.7	133.2	84.6	93.2	
2000	90.1	112.9	138.5	125.5	121.6	124.9	170.1	130.5	109.7	99.4	106.8	104.4	119.6	M
2001	95.6	80.6	113.5	107.7	96.6	134.0	81.8	106.4	150.7	125.5	106.5	132.2	111.0	
2002	114.1	107.4	98.4	120.7	120.8	88.3	99.9	116.4	109.3	97.5	95.5	80.8	104.0	
2003	79.7	46.0	61.1	60.0	54.6	77.4	83.3	72.7	48.7	65.5	67.3	46.5	63.9	
2004	37.7	45.8	49.1	39.3	41.5	43.2	51.0	40.9	27.7	48.0	43.5	17.9	40.4	
2005	31.3	29.1	24.8	24.2	42.7	39.3	40.1	36.4	21.9	8.7	18.0	41.1	29.8	
2006	15.4	4.7	10.8	30.2	22.2	13.9	12.2	12.9	14.4	10.5	21.4	13.6	15.2	
2007	16.8	10.7	4.5	3.4	11.7	12.1	9.7	6.0	2.4	0.9	1.7	10.1	7.5	
2008	3.4	2.1	9.3										4.9	

Values are preliminary after Sep 07. For the yearly means, each 'M' marks a sunspot cycle maximum and each 'm' a minimum.

Hà S O L A R F L A R E S
MARCH 2008

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
LEAR	11	0334	0341	0352	S10	W83	10985	03	4.9	18	SF		3	E		49		
LEAR		0446	0453	0459	S10	W84	10985	03	4.9	13	SF		3	E		67		F
LEAR		0553	0558	0614	S10	W85	10985	03	4.8	21	SF		3	E		50		
LEAR	23	2345	2346	2350	S09	E50	10987	03	27.7	5	SF		3	E		11		
LEAR	24	0108	0109	0110	S08	E49	10987	03	27.7	2	SF		3	E		18		
LEAR		0241	0248	0257	S08	E46	10987	03	27.6	16	SF		4	E		20		F
LEAR		0344	0345	0351	S11	E72		03	29.6	7	SF		3	E		11		
HOLL		1410E	1411	1435	S11	E66		03	29.5	25D	SF		3	E		36		
HOLL	25	1846	1855	1922	S13	E78	10989	03	31.7	36	1F		3	E		117		F
HOLL	26	2118	2126	2138	S09	E32	10988	03	29.3	20	SF		3	E		30		FH
HOLL	27	1634	1635	1641	S10	E01	10987	03	27.8	7	SF		3	E		10		
LEAR	31	0532	0532	0542	S11	W22	10988	03	29.6	10	SF		3	E		22		

"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

X - R A Y S O L A R F L A R E S
MARCH 2008

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Xray	Total Integrated Flux(1)	Total Area(2)	Total(3) Intensity
GOES	11	0550	0557	0604	S10	W85	10985			14	B 5.9	2.9E-04		
GOES	24	0117	0120	0123						6	B 1.7	5.4E-05		
GOES		0237	0244	0253	S08	E46	10987			16	B 5.1	3.2E-04		
GOES		0300	0305	0307						7	B 4.2	1.5E-04		
GOES		0450	0455	0459						9	B 1.7	7.5E-05		
GOES		0759	0818	0834						35	B 3.3	5.0E-04		
GOES		1013	1017	1021						8	B 1.1	4.6E-05		
GOES		1403	1410	1412	S11	E66	10988			9	B 2.6	6.4E-05		
GOES		1613	1618	1627						14	B 1.2	8.7E-05		
GOES		1718	1721	1723						5	B 1.3	3.0E-05		
GOES		1947	1951	1953						6	B 1.9	6.0E-05		
GOES	25	0449	0456	0504						15	B 4.7	2.9E-04		
GOES		0752	0802	0811						19	B 1.8	1.8E-04		
GOES		1118	1125	1132						14	B 1.7	1.3E-04		
GOES		1449	1452	1454						5	B 2.3	5.7E-05		
GOES		1734	1738	1741						7	B 2.1	7.0E-05		
GOES		1826	1829	1831			10988			5	B 1.8	4.8E-05		
GOES		1836	1856	1913	S13	E78	10989			37	M 1.7	2.1E-02		
GOES	26	1121	1125	1130						9	B 1.8	7.2E-05		
GOES		1851	1919	1926						35	B 1.3	2.4E-04		
GOES		2112	2129	2140	S09	E32	10988			28	B 7.6	8.3E-04		
GOES	27	0227	0236	0252						25	B 1.9	2.3E-04		
GOES		0517	0520	0532						15	B 1.0	7.9E-05		
GOES		1627	1636	1649	S10	E01	10987			22	B 4.8	5.3E-04		
GOES	28	0939	0944	0948						9	B 1.6	6.5E-05		
GOES		1149	1203	1216						27	B 1.6	2.3E-04		
GOES		1400	1406	1412						12	B 1.2	7.4E-05		
GOES	29	0023	0047	0058						35	B 3.1	4.7E-04		
GOES		0718	0722	0726						8	B 1.3	4.9E-05		
GOES	30	0600	0625	0648						48	B 1.2	2.9E-04		
GOES		1732	1737	1744						12	B 1.4	8.6E-05		
GOES	31	0528	0534	0540	S11	W22	10988			12	B 2.4	1.2E-04		

Note 1: Total integrated flux computed from the event start time to end if available (units=J/m*2).
Note 2: Total area is derived from SXI imagery in units of squared arc seconds of the largest flaring area.
Note 3: Total intensity is derived from SXI imagery in units of data numbers/second of the largest flaring area.

TABLE FORMAT CHANGE: Data are from the GOES full disk xray monitor supplemented with Solar Xray Imager (SXI) from January, 2004, to April 12, 2007. Positions, areas, and intensities are taken from SXI imagery using the largest flare event on the disk. Only the largest event is selected during multiple flares on the disk.

IMPORTANT NOTE: The xray sensor on GOES 12 was turned off on April 12, 2007, at 2250UT. The GOES SXI instrument is also inoperative. GOES 11 is now primary with GOES 10 backup for xray data. Effective April 13, 2007, xray flare locations will be determined by optical flare reports. Xray event times will still be from the xray data.

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

Selected Fixed Frequency Events

MARCH 2008

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	245	LEAR	20 GRF	0901.0	0902.0	3.0	100.0			QL=4 ST=2 TYP=2
25	2695	SGMR	48 C	1849.0	1851.0	6.0	290.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	1850.0	1851.0	4.0	290.0			QL=4 ST=2 TYP=8
	1415	PALE	8 S	1850.0	1851.0	1.0	450.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1850.0	1850.0	U	48.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1850.0	1851.0	2.0	400.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1850.0	1851.0	5.0	160.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1850.0E	1851.0U	1.0D	450.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1851.0	1851.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1851.0	1852.0	2.0	99.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1851.0	1851.0	2.0	74.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1852.0	1852.0	U	100.0			QL=4 ST=2 TYP=3
26	245	SVTO	8 S	1625.0	1625.0	U	100.0			QL=2 ST=2 TYP=3
27	8800	SGMR	8 S	1757.0	1758.0	1.0	220.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:
LEAR = Learmonth SGMR = Sagamore Hill SVTO = San Vito

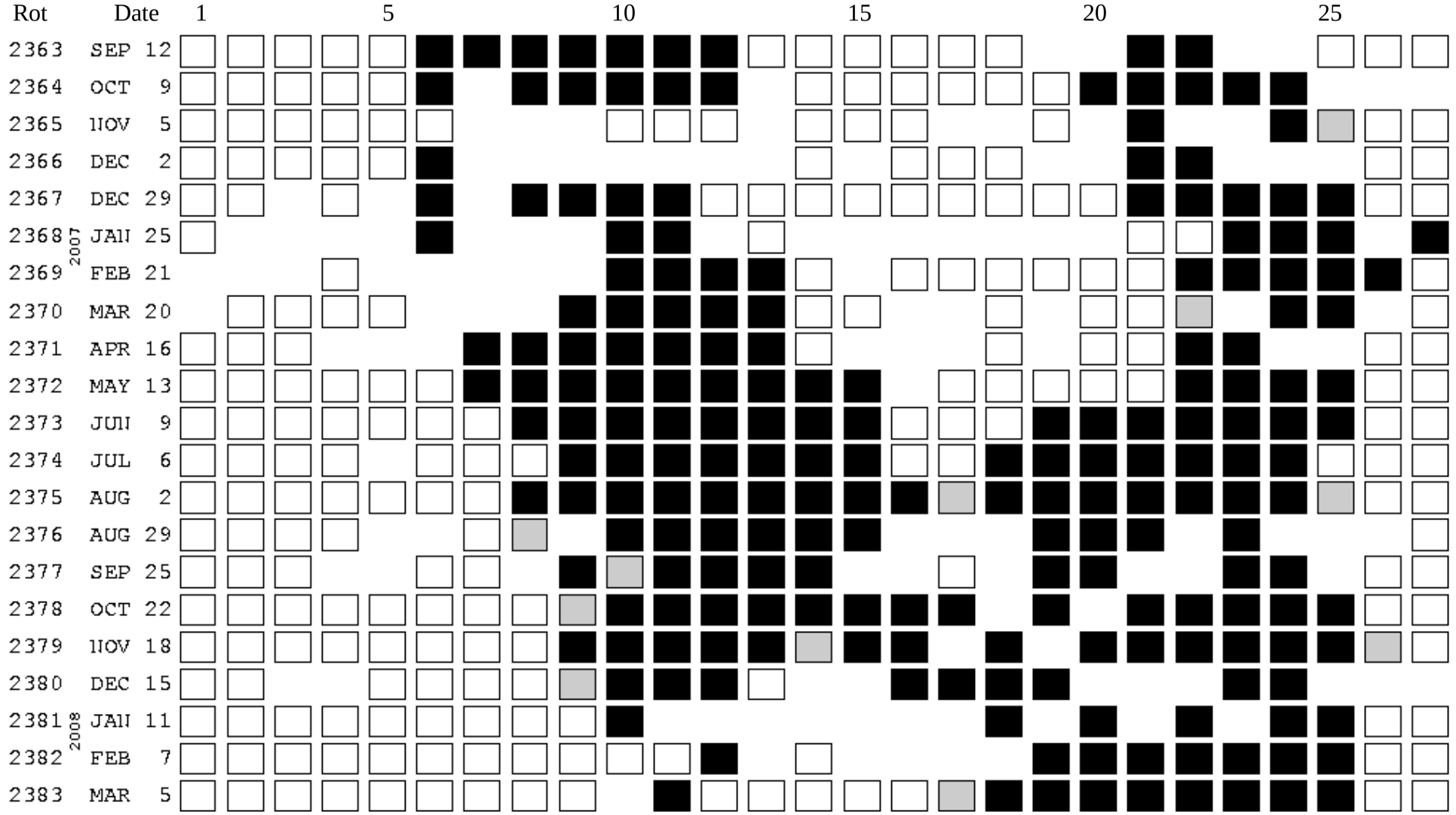
Explanation of Type Code:

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

1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F
3A Simple 2A	4O Rise Only	16A Fall A	27AF Rise and Fall AF
21A Simple 3A GRF	4OF Rise Only F	26O Fall Only	31A Post Burst Decrease A
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A

RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; and Hiraiso, Japan 500 and 200 MHz.

STANFORD MEAN SOLAR MAGNETIC FIELD

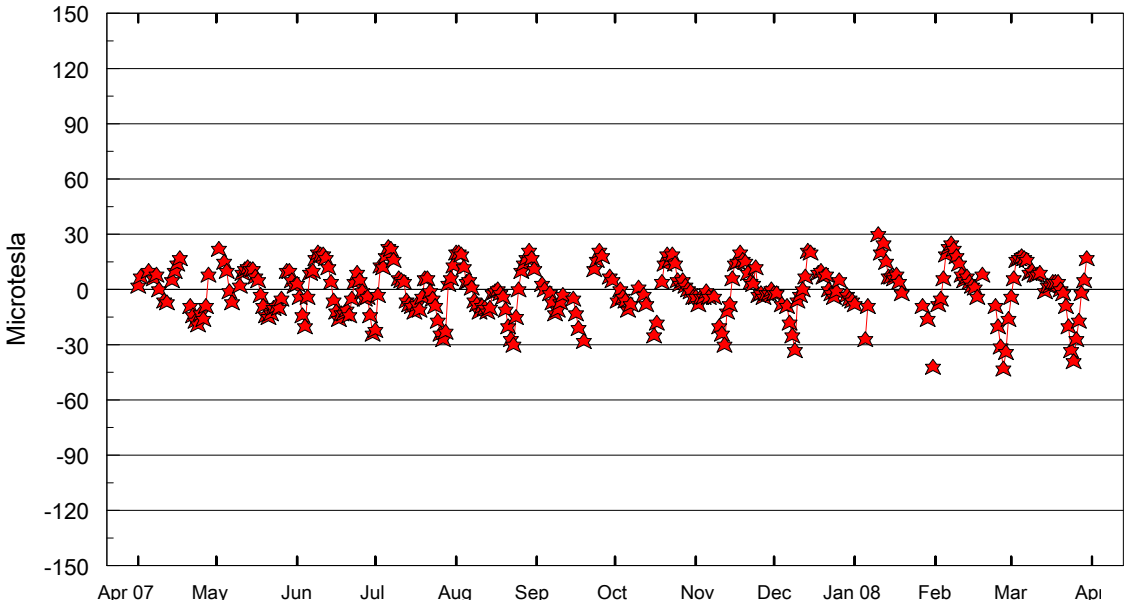


Mean Solar Magnetic Field Polarity: = field > 2 microT; = -2 microT ≤ field ≤ 2 microT = field < -2 microT; No box = no data available

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.

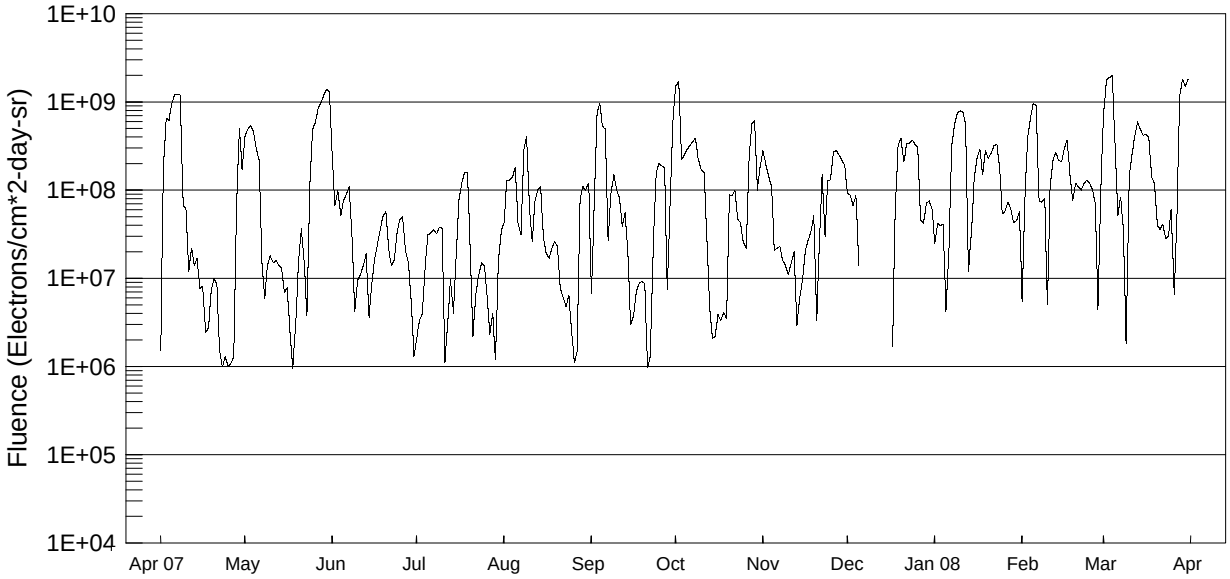
31
Mar 08

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



Day	Apr 07	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 08	Feb	Mar
1	-6	---	2	-24	13	11	5	-4	0	-6	-42	-16
2	2	---	3	-22	20	---	---	-4	-2	-8	---	-4
3	7	22	-4	-3	20	---	-6	-8	-2	---	-8	6
4	---	---	-14	13	19	3	0	-4	---	---	-5	16
5	---	15	-20	12	12	0	-4	-4	-8	---	6	17
6	10	10	-4	18	4	---	-6	-1	---	-27	19	18
7	.	-1	9	23	5	-2	-11	-4	-9	-9	23	17
8	6	-7	10	22	1	-7	-8	---	-18	---	25	16
9	8	---	17	16	-6	-13	---	-4	-25	---	22	9
10	0	---	20	---	-8	-11	---	---	-33	---	18	10
11	---	2	19	6	-12	-7	1	-20	-6	30	14	8
12	-6	9	19	5	-9	-3	---	-24	-3	20	8	8
13	-7	11	17	4	-10	---	-3	-30	0	25	5	9
14	---	12	12	-6	-12	---	-8	-12	7	15	7	---
15	5	11	4	-8	-10	---	---	-8	21	7	4	-1
16	10	11	-6	-9	-2	-5	---	6	20	7	2	2
17	14	7	-12	-12	-1	-13	-25	14	---	6	1	2
18	17	5	-16	-8	0	-21	-18	15	---	8	-4	4
19	---	-3	-13	-11	-2	---	---	20	9	4	---	4
20	---	-9	-13	-4	-4	-28	4	16	10	-2	8	4
21	---	-14	-11	6	-11	---	14	15	7	---	---	0
22	-9	-15	-14	6	-20	---	19	9	8	---	---	-2
23	-14	-13	-5	-1	-27	---	16	4	0	---	---	-9
24	-17	-10	4	-5	-30	11	19	3	-2	---	---	-20
25	-19	-9	9	-9	-15	16	14	12	-4	---	-9	-33
26	-13	-10	5	-17	0	21	5	-3	-1	---	-20	-39
27	-16	-5	-1	-24	10	18	3	-2	5	---	-31	-27
28	-9	---	-5	-27	14	---	5	-4	---	-9	-43	-17
29	8	10	-4	-23	17	---	2	-2	---	---	-34	-2
30	---	10	-14	3	21	7	0	-2	-3	-16		5
31		5		6	17		-1		-5	---		17

GOES Daily Electron Fluence
Apr 2007 - Mar 2008



Day	Apr 07	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 08	Feb	Mar
1	1.5E+06	4.0E+08	2.4E+08	2.1E+06	4.3E+07	6.8E+06	1.5E+09	2.8E+08	9.3E+07	2.5E+07	5.5E+06	7.5E+08
2	1.9E+08	4.9E+08	6.7E+07	3.4E+06	1.3E+08	6.3E+07	1.7E+09	2.0E+08	8.8E+07	4.2E+07	8.0E+07	1.8E+09
3	6.6E+08	5.4E+08	1.0E+08	3.9E+06	1.3E+08	7.5E+08	2.2E+08	1.4E+08	6.7E+07	4.0E+07	4.1E+08	1.9E+09
4	6.2E+08	4.6E+08	5.1E+07	1.3E+07	1.4E+08	9.6E+08	2.5E+08	1.1E+08	8.6E+07	4.1E+07	6.5E+08	2.0E+09
5	9.6E+08	2.9E+08	7.7E+07	3.1E+07	1.8E+08	5.3E+08	2.9E+08	2.1E+07	1.4E+07	4.2E+06	9.7E+08	3.6E+08
6	1.2E+09	2.2E+08	9.0E+07	3.3E+07	4.3E+07	4.9E+08	3.2E+08	2.2E+07	---	2.3E+07	9.1E+08	5.1E+07
7	1.2E+09	1.6E+07	1.1E+08	3.6E+07	3.1E+07	2.7E+07	3.5E+08	2.3E+07	---	3.2E+08	7.6E+07	8.4E+07
8	1.2E+09	5.9E+06	3.1E+07	3.2E+07	2.9E+08	9.6E+07	3.9E+08	1.6E+07	---	5.6E+08	7.3E+07	3.8E+07
9	6.7E+07	1.4E+07	4.2E+06	3.8E+07	4.1E+08	1.5E+08	2.3E+08	1.4E+07	---	7.5E+08	8.1E+07	1.8E+06
10	6.2E+07	1.8E+07	9.4E+06	3.7E+07	6.6E+07	1.0E+08	1.7E+08	1.1E+07	---	7.9E+08	5.0E+06	1.4E+08
11	1.2E+07	1.5E+07	1.1E+07	1.1E+06	2.6E+07	8.2E+07	1.6E+08	1.5E+07	---	7.7E+08	1.1E+08	2.5E+08
12	2.2E+07	1.6E+07	1.4E+07	3.0E+06	7.5E+07	3.9E+07	3.1E+07	2.0E+07	---	5.5E+08	2.2E+08	4.1E+08
13	1.4E+07	1.4E+07	1.9E+07	9.6E+06	1.0E+08	5.6E+07	5.0E+06	2.9E+06	---	1.2E+07	2.7E+08	6.0E+08
14	1.7E+07	1.3E+07	3.6E+06	4.0E+06	1.1E+08	2.1E+07	2.1E+06	6.1E+06	---	3.5E+07	2.2E+08	4.9E+08
15	7.7E+06	6.9E+06	8.6E+06	1.9E+07	2.8E+07	3.0E+06	2.2E+06	9.4E+06	---	1.4E+08	2.1E+08	4.2E+08
16	8.2E+06	7.8E+06	1.6E+07	8.1E+07	1.9E+07	3.8E+06	3.9E+06	2.0E+07	---	2.3E+08	3.0E+08	4.3E+08
17	2.4E+06	2.5E+06	2.4E+07	1.2E+08	1.7E+07	7.2E+06	3.3E+06	2.7E+07	1.7E+06	2.9E+08	3.7E+08	4.0E+08
18	2.8E+06	9.6E+05	3.5E+07	1.6E+08	2.2E+07	8.8E+06	4.1E+06	3.3E+07	6.4E+07	1.5E+08	1.5E+08	1.4E+08
19	7.3E+06	3.1E+06	5.0E+07	1.6E+08	2.6E+07	9.3E+06	3.5E+06	5.2E+07	3.2E+08	2.8E+08	7.6E+07	1.2E+08
20	1.0E+07	1.6E+07	5.7E+07	2.3E+07	2.3E+07	8.8E+06	8.9E+07	3.3E+06	3.9E+08	2.3E+08	1.2E+08	4.0E+07
21	8.5E+06	3.7E+07	2.1E+07	2.2E+06	7.7E+06	9.8E+05	8.7E+07	2.6E+07	2.1E+08	2.6E+08	1.1E+08	3.6E+07
22	1.5E+06	1.5E+07	1.4E+07	7.0E+06	6.2E+06	1.3E+06	9.9E+07	1.5E+08	3.4E+08	3.2E+08	1.0E+08	4.1E+07
23	9.9E+05	3.8E+06	1.6E+07	1.1E+07	4.8E+06	2.2E+07	4.7E+07	3.0E+07	3.4E+08	3.3E+08	1.2E+08	2.8E+07
24	1.3E+06	1.0E+08	3.3E+07	1.5E+07	6.5E+06	1.6E+08	4.3E+07	1.3E+08	3.7E+08	1.8E+08	1.3E+08	3.0E+07
25	1.0E+06	4.9E+08	4.6E+07	1.4E+07	2.5E+06	2.0E+08	2.6E+07	1.3E+08	3.3E+08	5.4E+07	1.2E+08	6.0E+07
26	1.1E+06	5.8E+08	5.0E+07	6.3E+06	1.1E+06	1.9E+08	2.2E+07	2.7E+08	3.0E+08	5.8E+07	1.0E+08	6.6E+06
27	1.3E+06	8.6E+08	2.1E+07	2.3E+06	1.5E+06	1.8E+08	2.3E+08	2.8E+08	4.6E+07	7.3E+07	7.1E+07	5.7E+07
28	7.0E+07	9.9E+08	1.5E+07	4.0E+06	7.9E+07	7.5E+06	5.7E+08	2.5E+08	4.2E+07	6.2E+07	4.4E+06	1.2E+09
29	5.0E+08	1.2E+09	5.4E+06	1.2E+06	1.1E+08	7.1E+07	6.2E+08	2.2E+08	7.1E+07	4.3E+07	1.1E+08	1.8E+09
30	1.7E+08	1.4E+09	1.3E+06	1.6E+07	1.0E+08	6.1E+08	1.0E+08	1.9E+08	7.6E+07	4.5E+07		1.5E+09
31		1.3E+09		3.5E+07	1.2E+08		1.9E+08		6.1E+07	5.7E+07		1.8E+09

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. '--' indicates data not available.
NOTE: GOES9 data began April, 1996 and ended on 26 July, 1998. GOES12 is primary satellite as of 15 May 2003.

CONTENTS

Prompt Reports Number 764 Part I

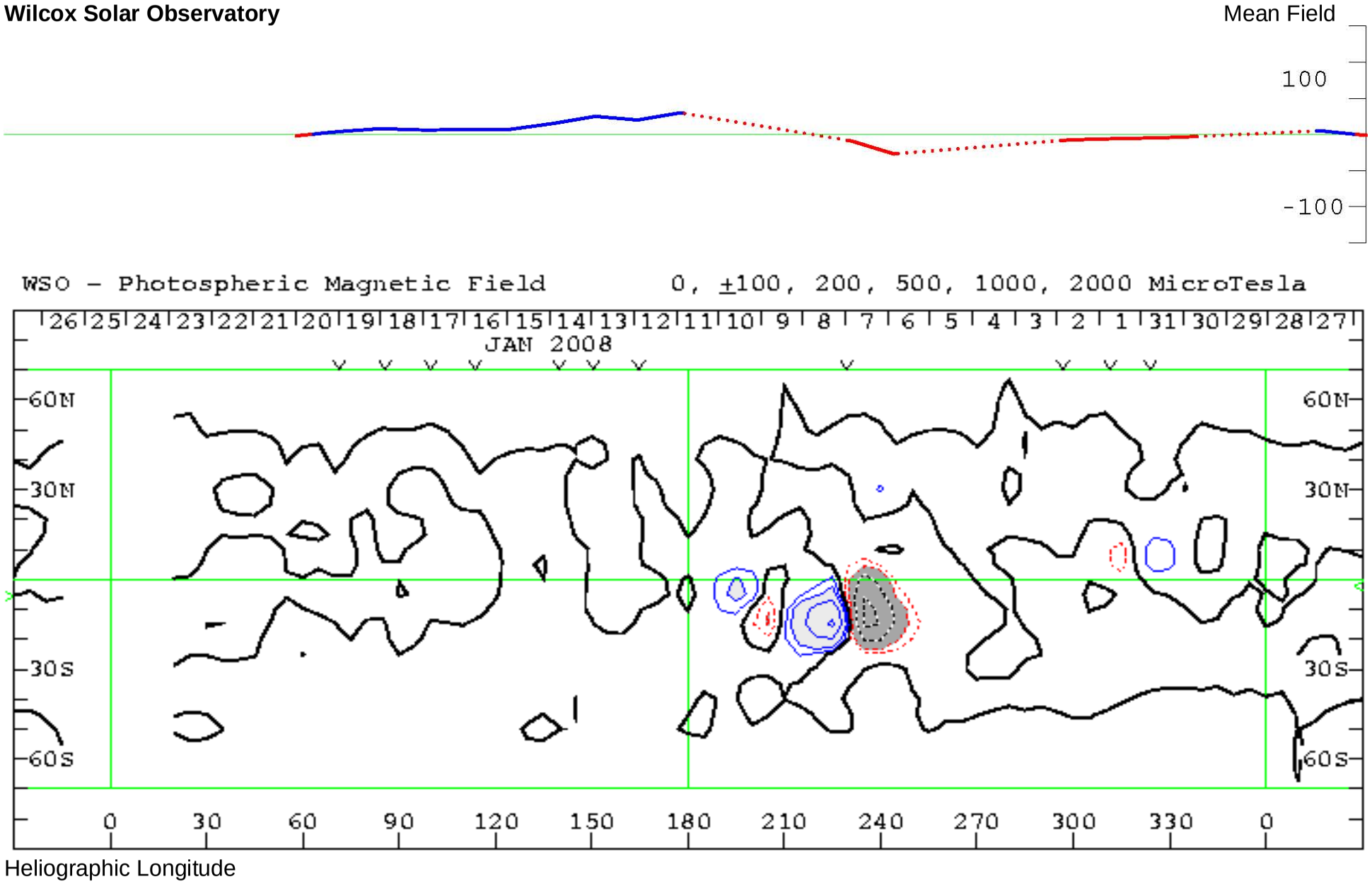
DATA FOR **FEBRUARY 2008**

SOLAR MAGNETIC FIELD SYNOPTIC CHART

CARRINGTON ROTATION NUMBER 2065

(29 Dec 2007 to 25 Jan 2008)

Wilcox Solar Observatory



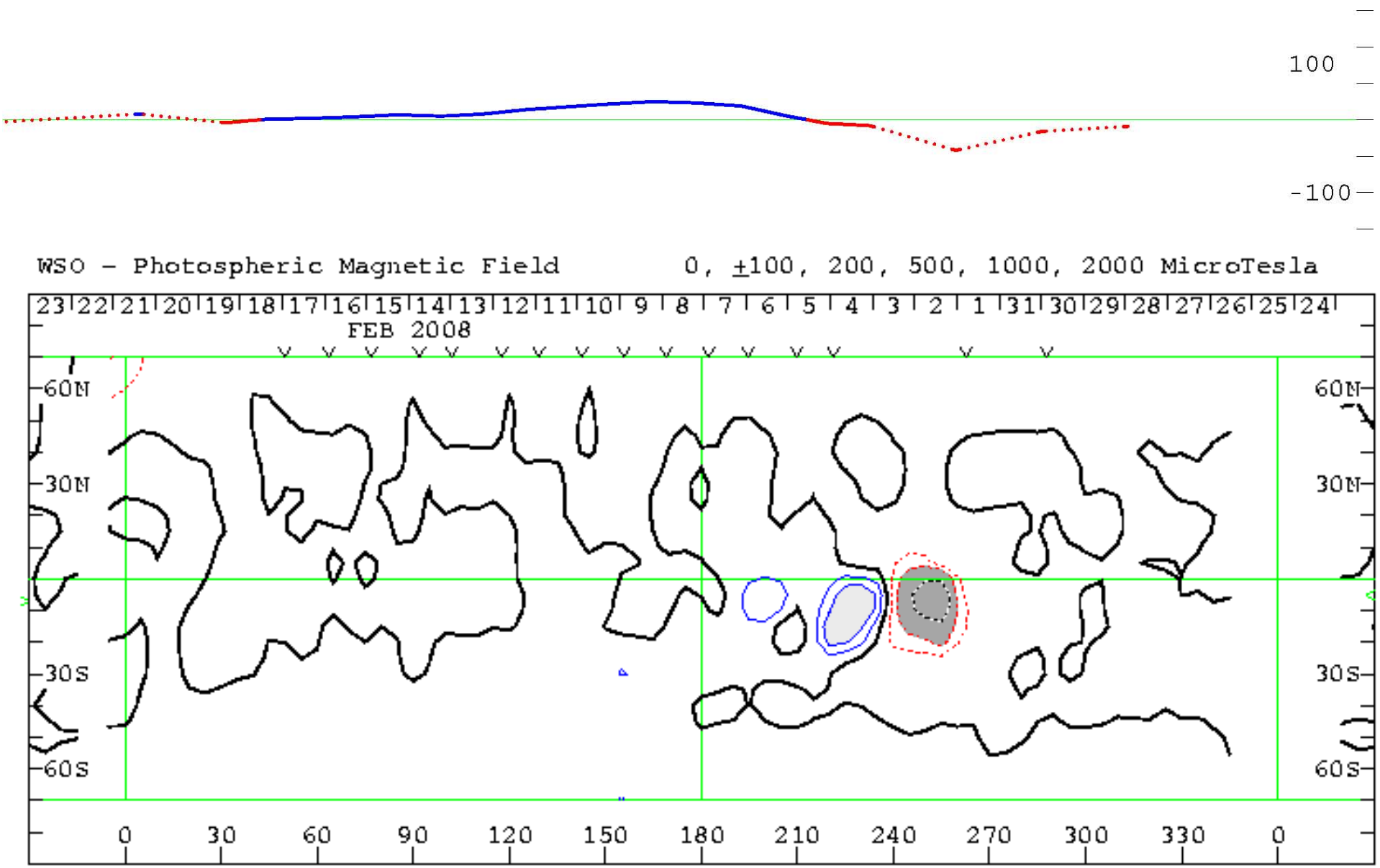
SOLAR MAGNETIC FIELD SYNOPTIC CHART

CARRINGTON ROTATION NUMBER 2066

(25 Jan 2008 to 21 Feb 2008)

Wilcox Solar Observatory

Mean Field



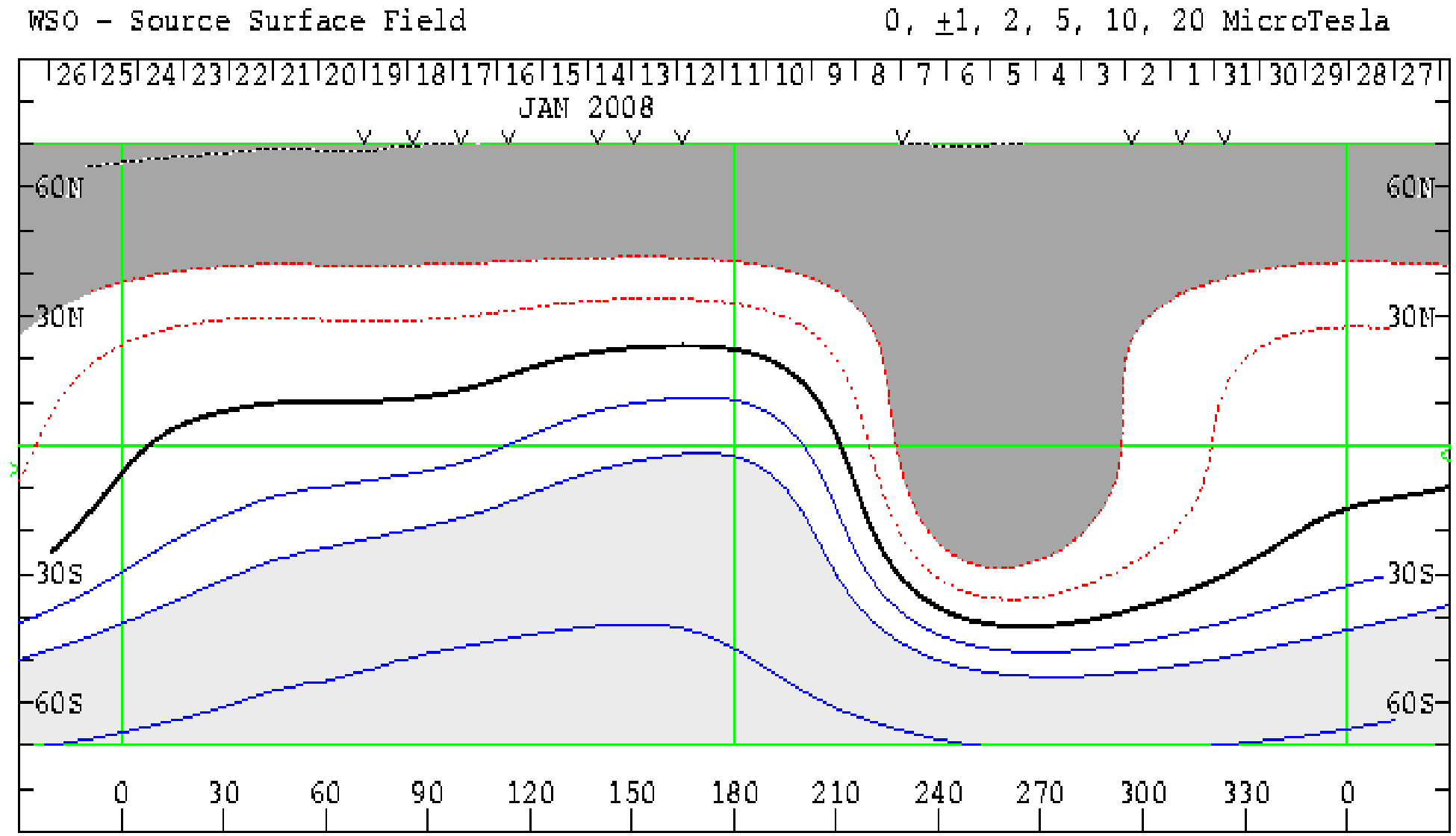
Heliographic Longitude

S O L A R M A G N E T I C F I E L D S Y N O P T I C C H A R T

SOURCE SURFACE FIELD

CARRINGTON ROTATION NUMBER 2065

(29 Dec 2007 to 25 Jan 2008)

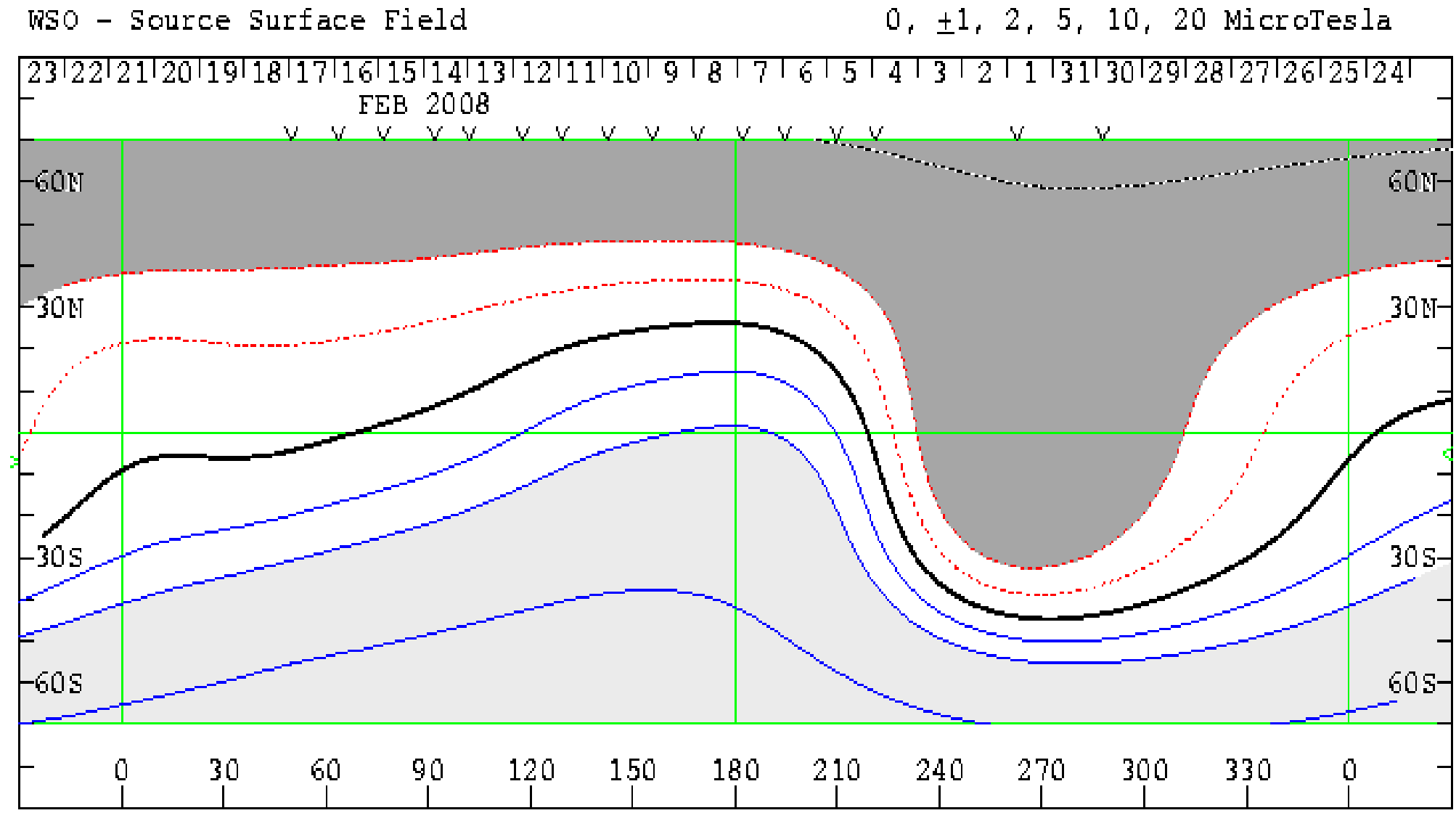


SOLAR MAGNETIC FIELD SYNOPTIC CHART

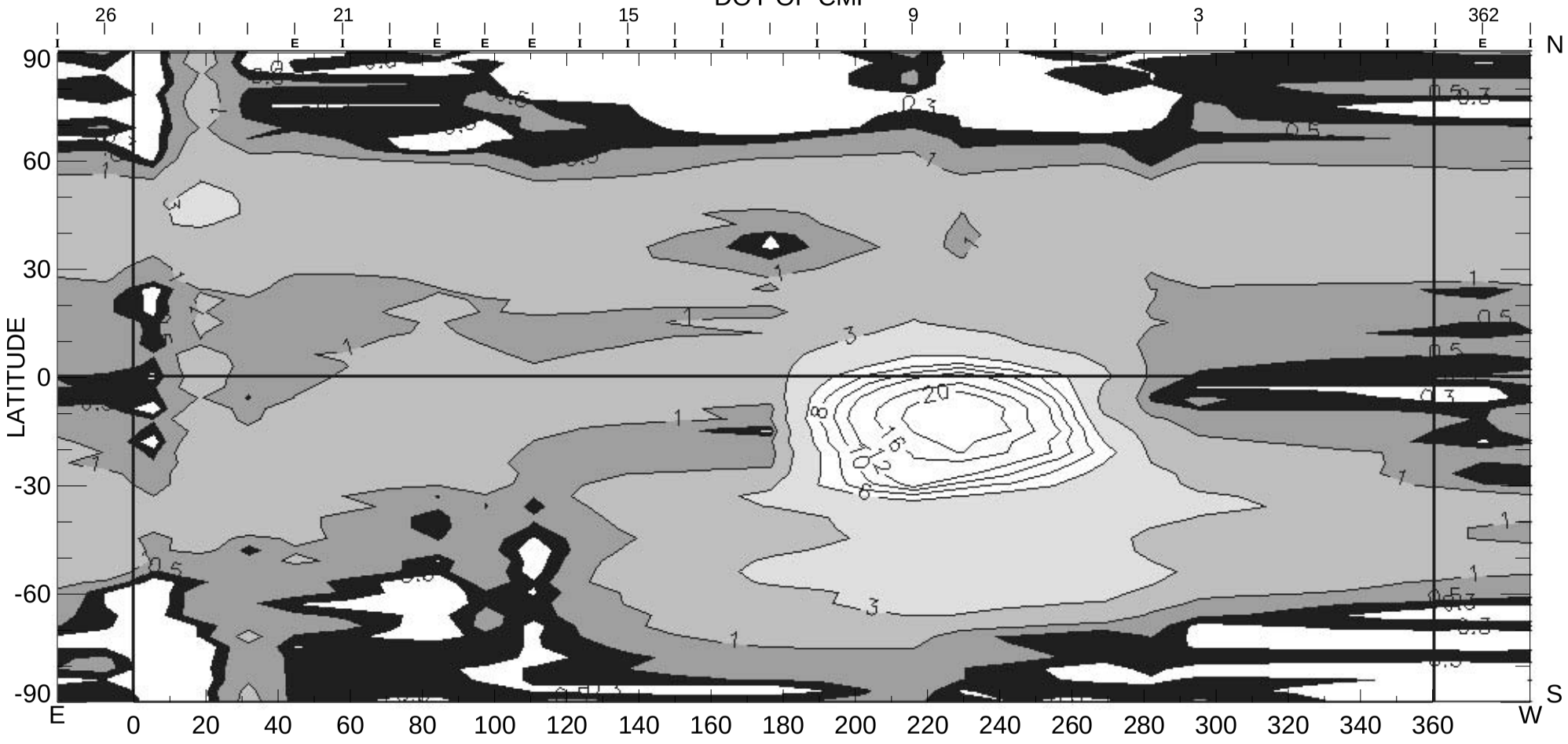
SOURCE SURFACE FIELD

CARRINGTON ROTATION NUMBER 2066

(25 Jan 2008 to 21 Feb 2008)



CARRINGTON ROTATION NUMBER 2065 ; NSO/SACRAMENTO PEAK FE XIV @ R = 1.15R_o



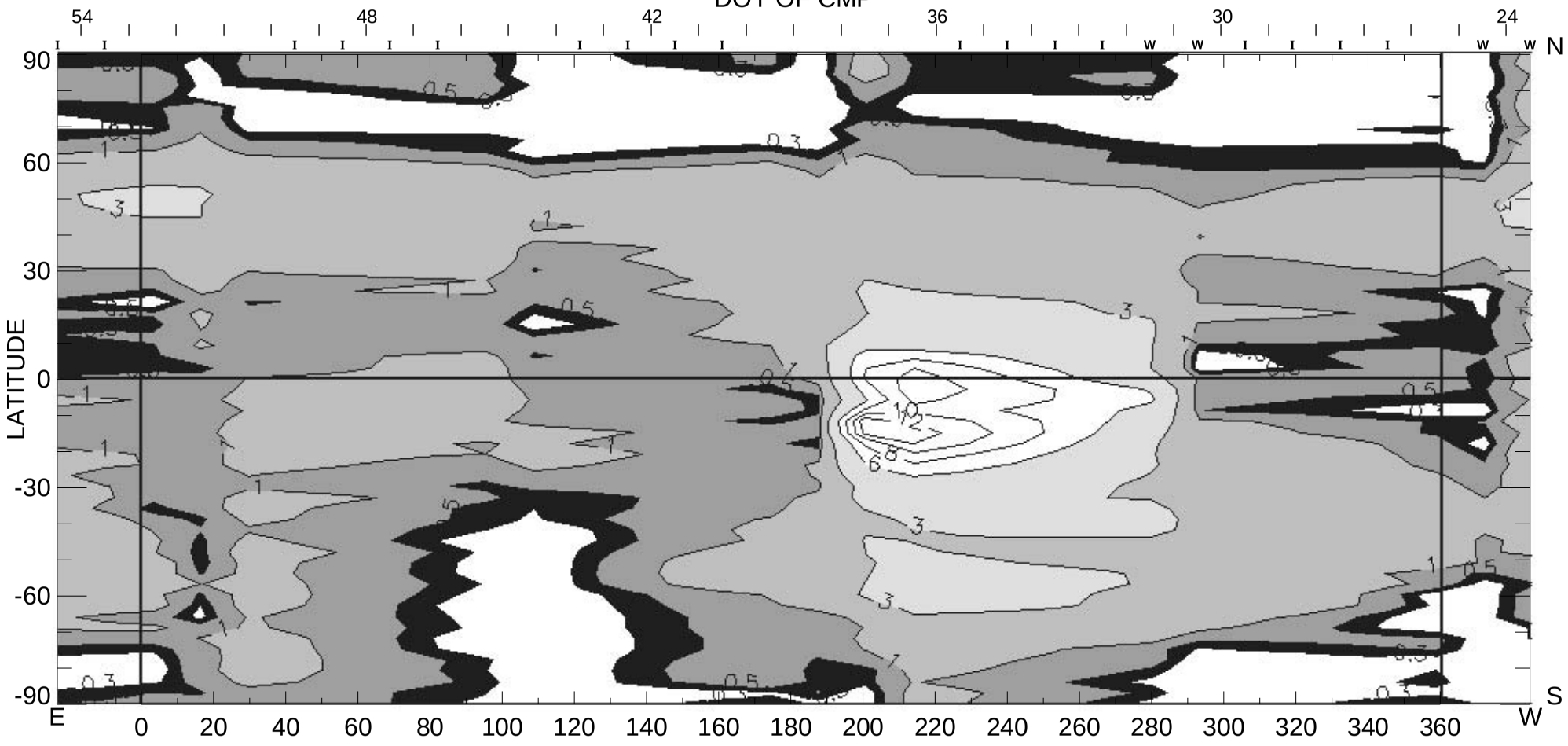
<I> = 1.58μ

(16-Apr-08) 2008 W+E LIMB CONTOURS: 0.3, 0.5, 1, 3, 6, 8, 10, 12, 16, 20 MILLIONTHS OF I_o

CORONAL HOLES ARE SHOWN AS WHITE BORDERED BY BLACK

tex Wed Apr 16 14:58:12 2008

CARRINGTON ROTATION NUMBER 2066 ; NSO/SACRAMENTO PEAK FE XIV @ R = 1.15R_o

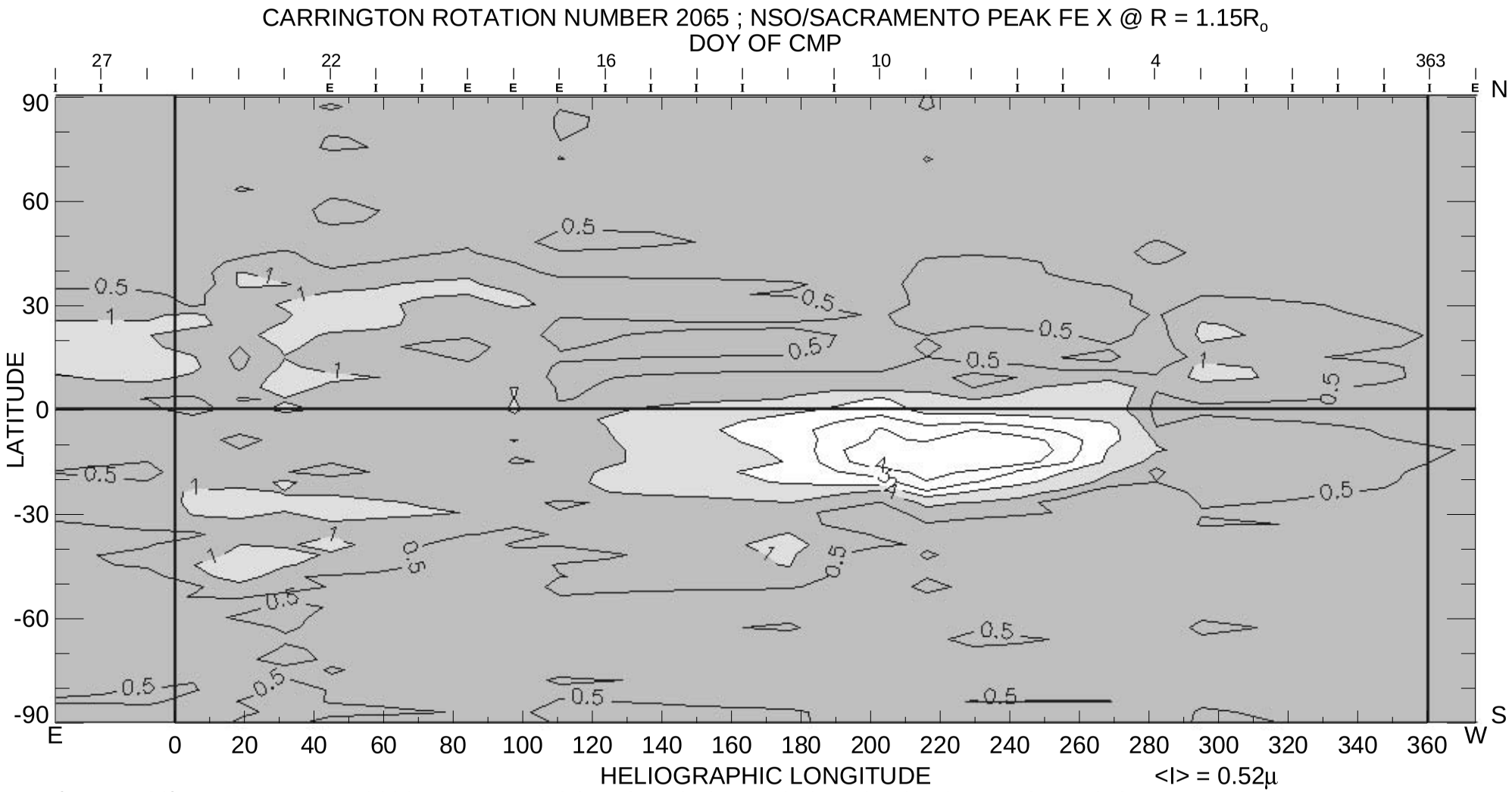


<I> = 1.34μ

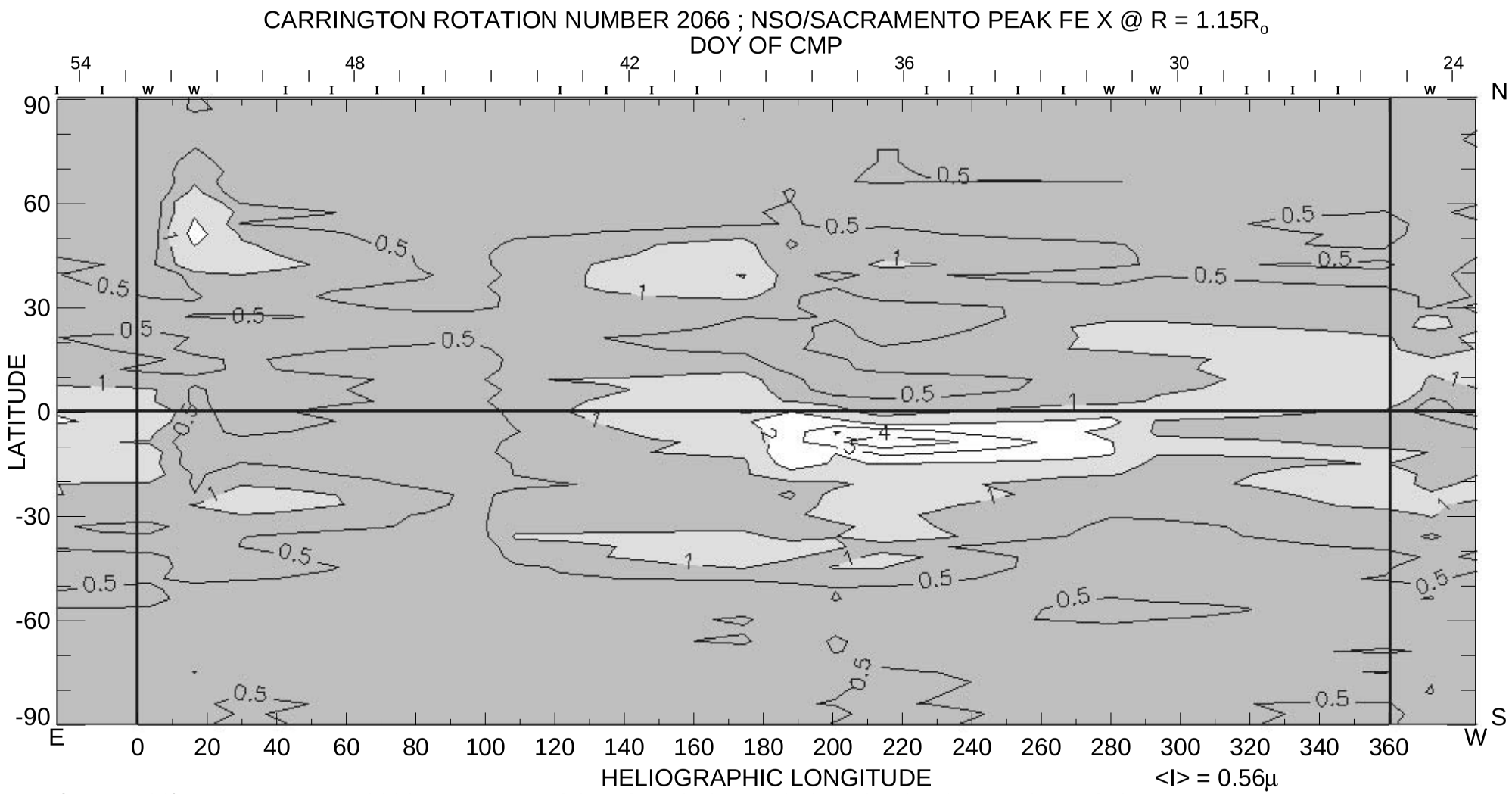
(16-Apr-08) 2008 E+W LIMB CONTOURS: 0.3, 0.5, 1, 3, 6, 8, 10, 12, 16, 20 MILLIONTHS OF I_o

CORONAL HOLES ARE SHOWN AS WHITE BORDERED BY BLACK

tex Wed Apr 16 14:58:41 2008



tex Fri Apr 11 12:48:41 2008



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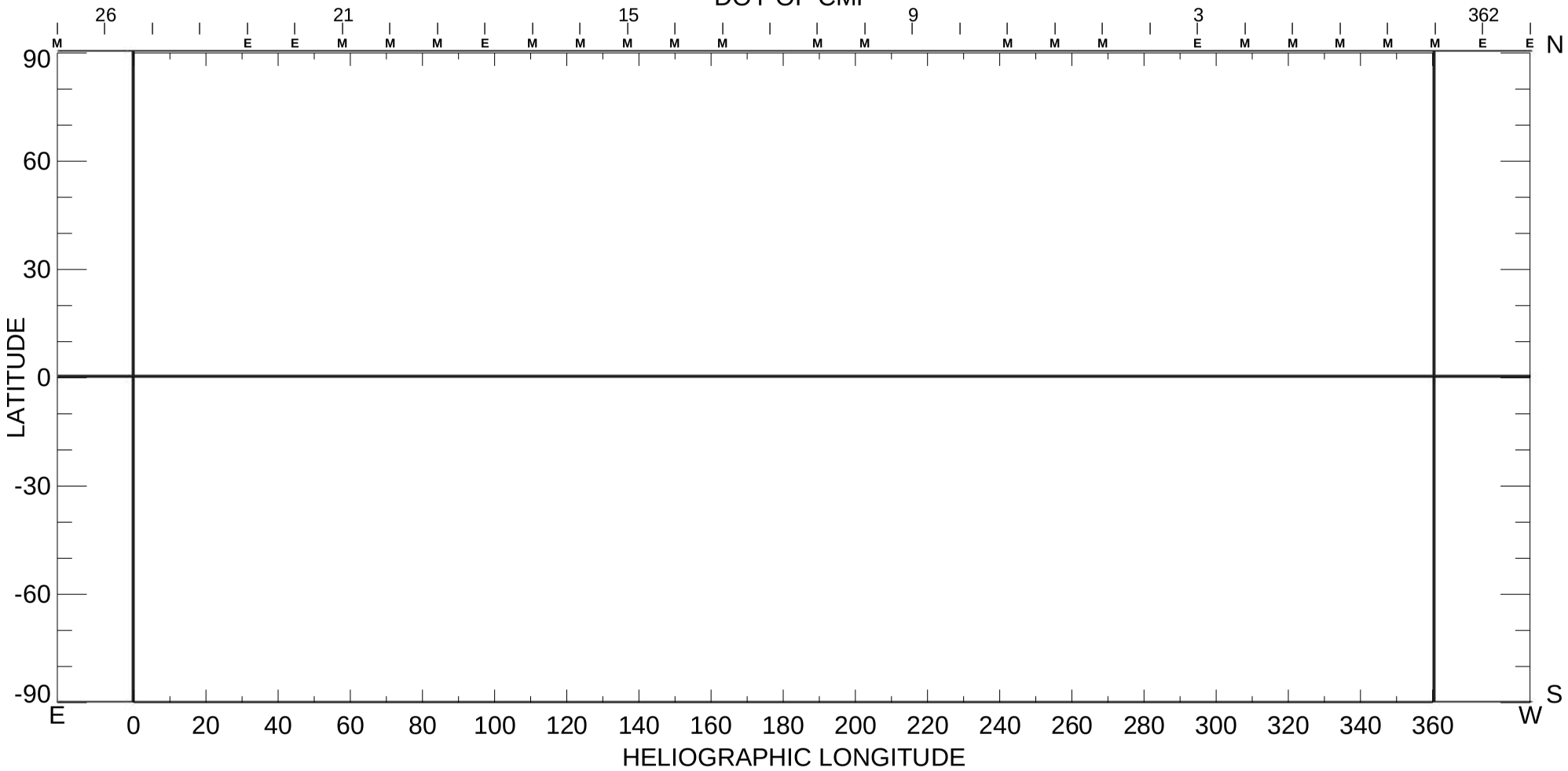
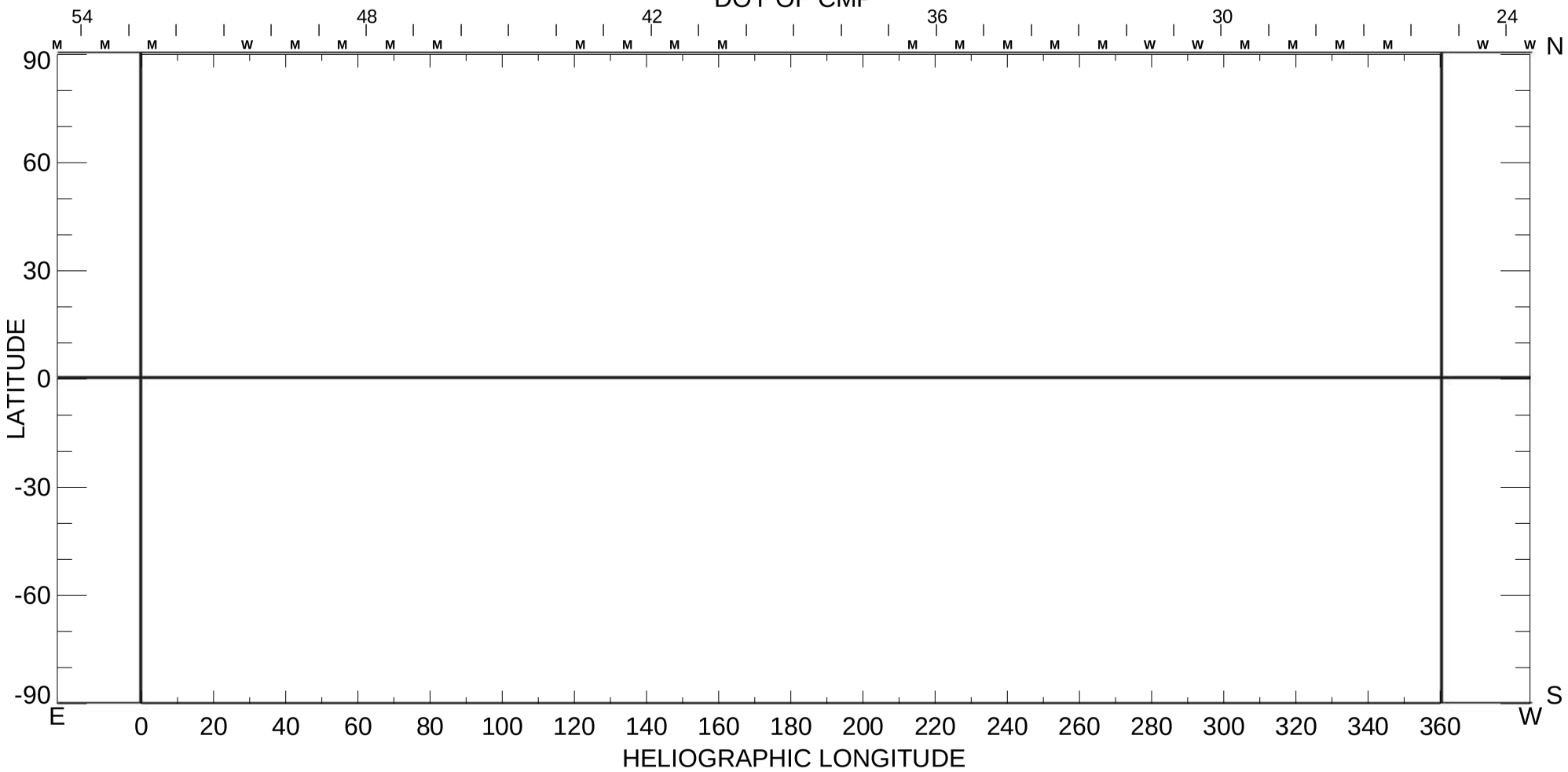


(11-Apr-08) 2008 W+E LIMB CONTOURS: YELMIN, 1, 2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20 MILLIONTHS OF I_o

tex Fri Apr 11 11:33:18 2008

CARRINGTON ROTATION NUMBER 2066 ; NSO/SACRAMENTO PEAK CA XV @ R = 1.15R_o



(11-Apr-08) 2008 E+W LIMB CONTOURS: 1, 2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20 MILLIONTHS OF I_o

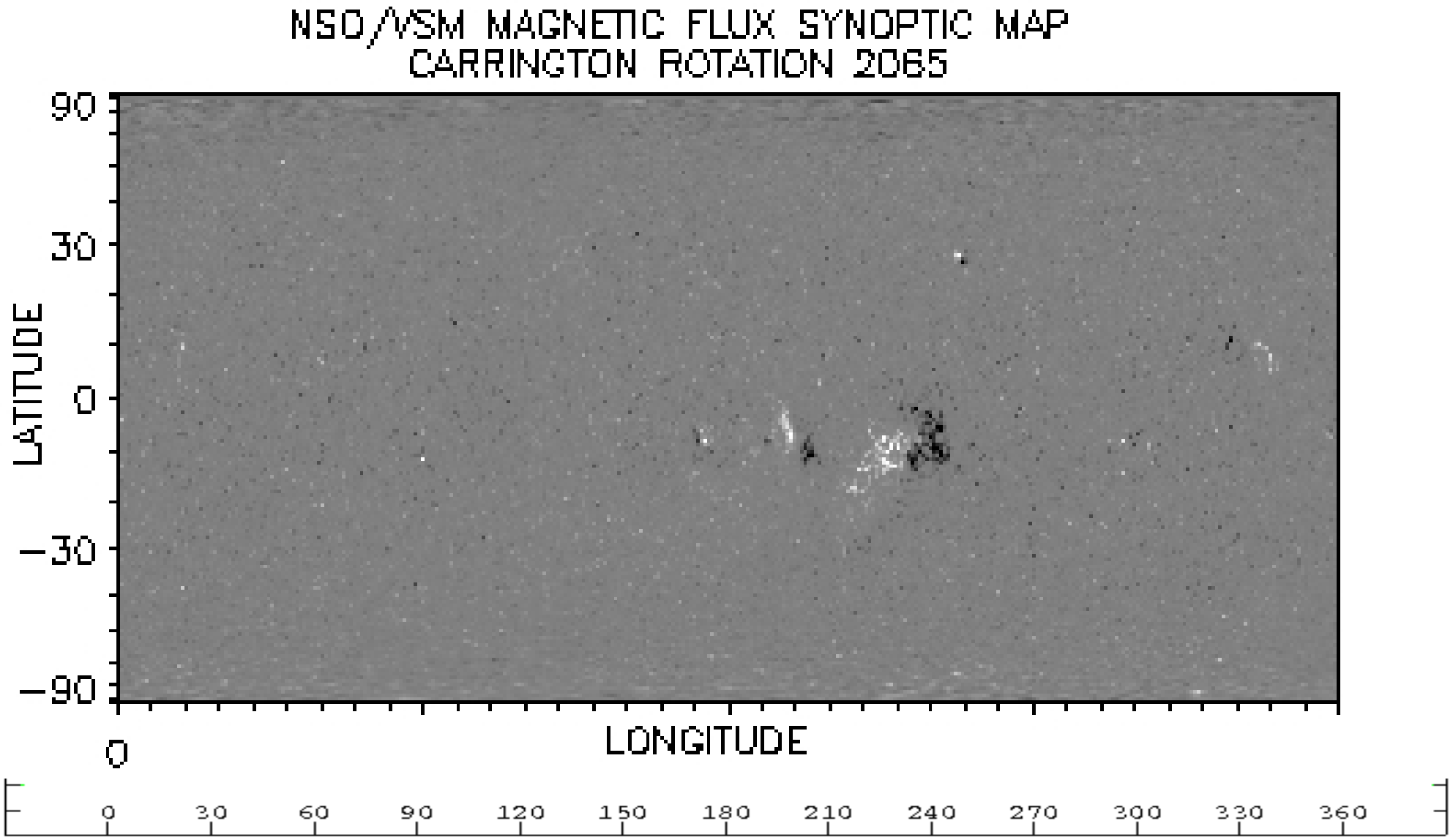
tex Fri Apr 11 12:51:38 2008

SOLAR MAGNETIC FIELD SYNOPTIC CHART

CARRINGTON ROTATION NUMBER 2065

(29 Dec 2007 to 25 Jan 2008)

National Solar Observatory/Kitt Peak



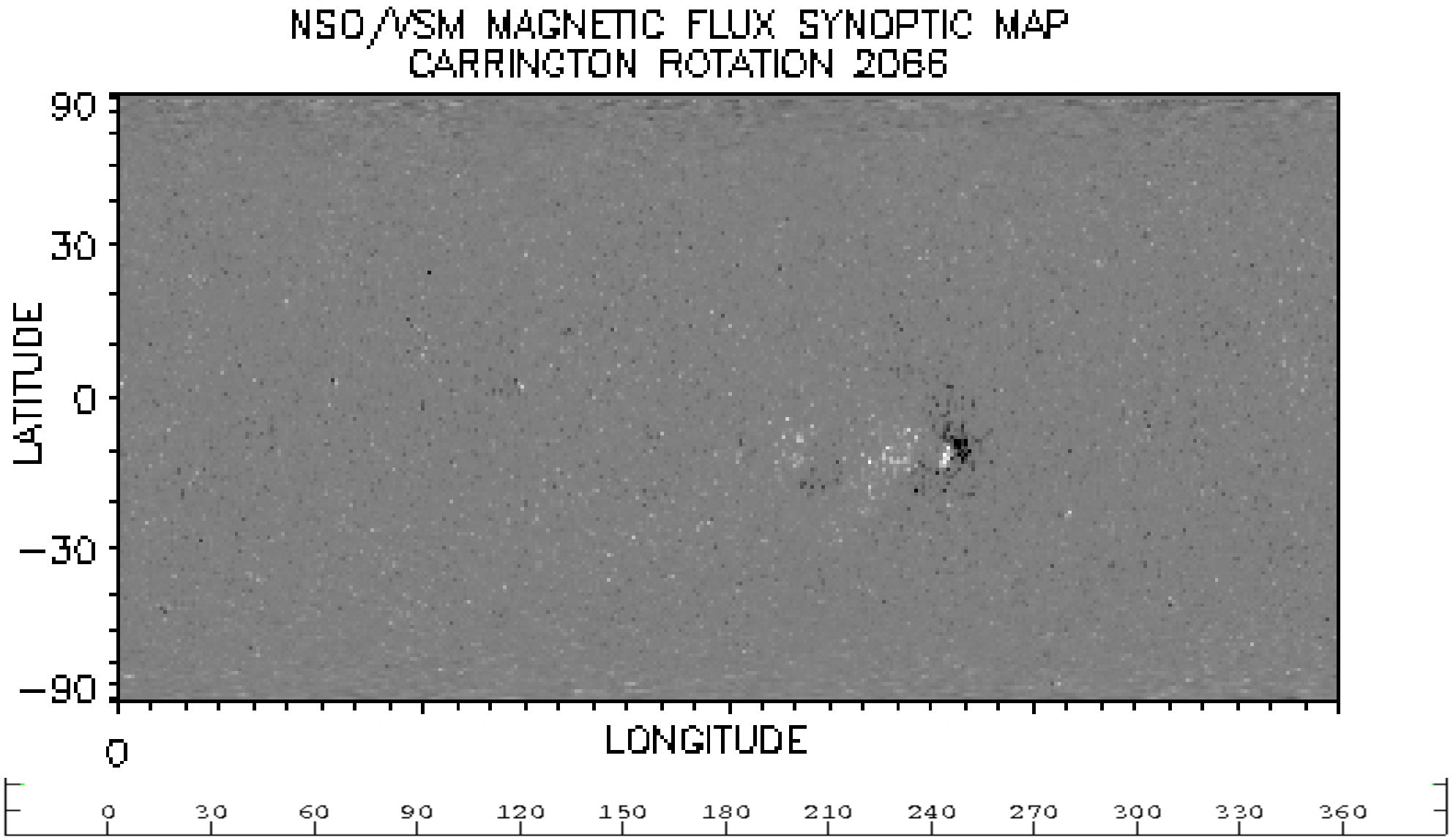
Heliographic Longitude

SOLAR MAGNETIC FIELD SYNOPTIC CHART

CARRINGTON ROTATION NUMBER 2066

(25 Jan 2008 to 21 Feb 2008)

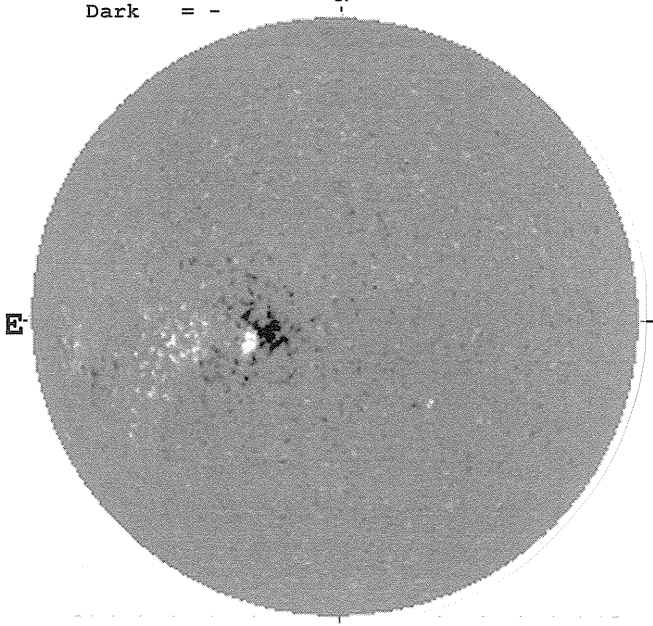
National Solar Observatory/Kitt Peak



Heliographic Longitude

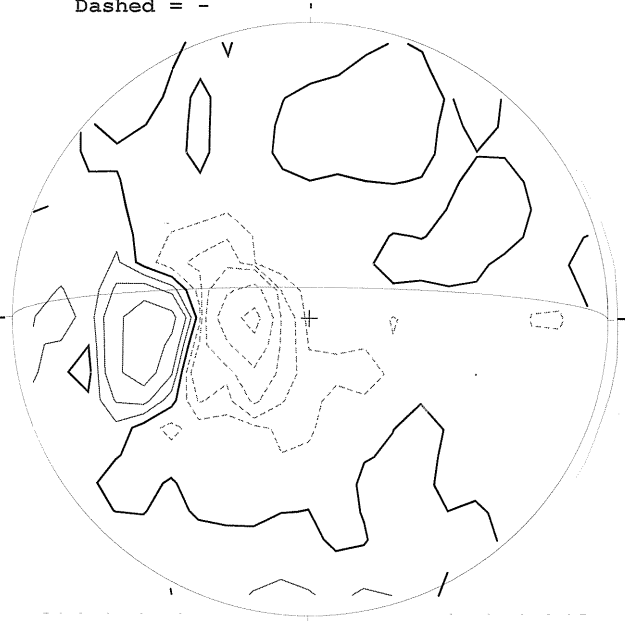
February 01, 2008 (P=-11.92, Bo=-5.98, Lo= 272.96)

KITT PEAK MAGNETOGRAM -- SOLIS
Bright = +
Dark = -
** 854.2NM **



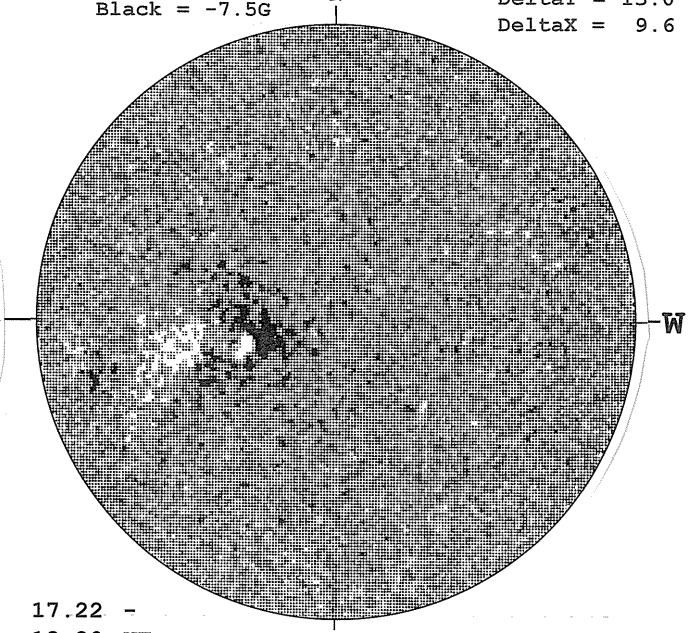
1908 UT

STANFORD MAGNETOGRAM
Solid = +
Dashed = -



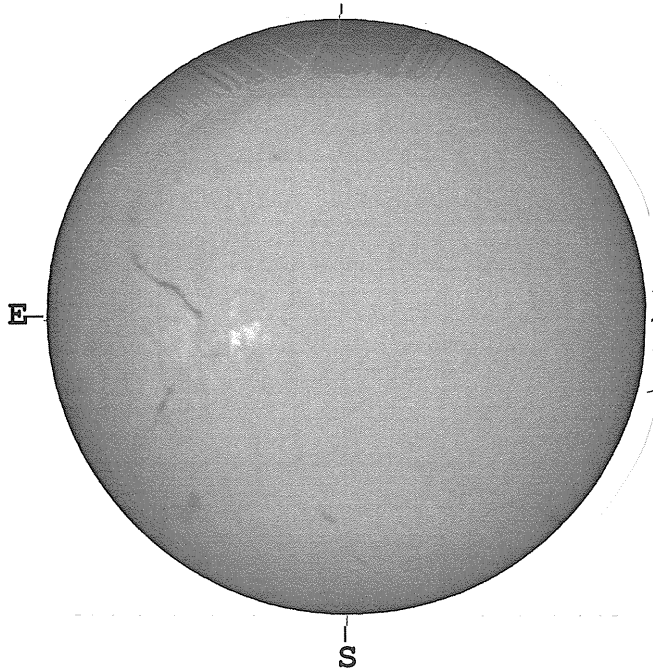
1840 UT

MT. WILSON MAGNETOGRAM
White = +7.5G
Black = -7.5G
DeltaY = 13.0
DeltaX = 9.6



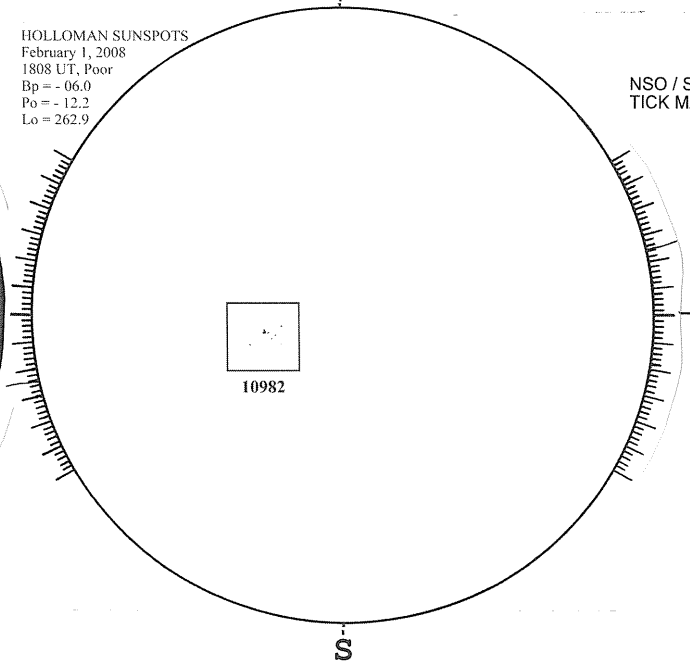
17.22 -
18.20 UT

CATANIA H-ALPHA



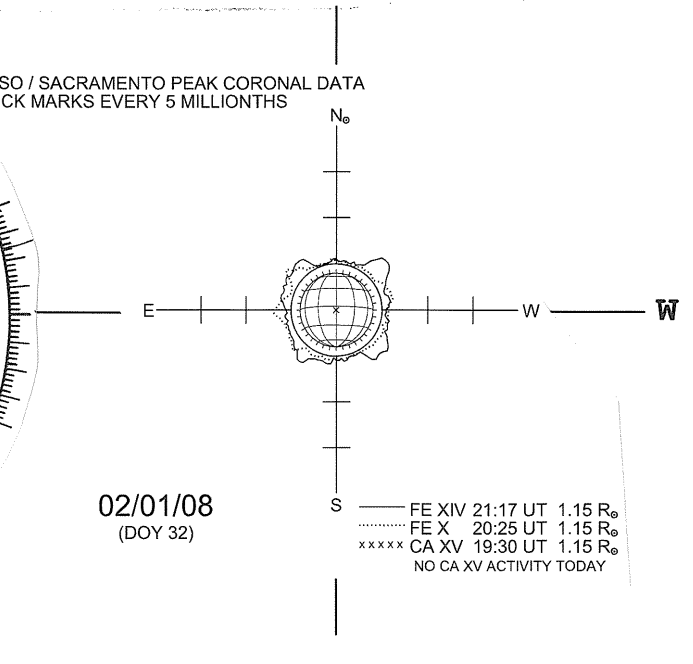
0922 UT

HOLLOMAN SUNSPOTS



1808 UT

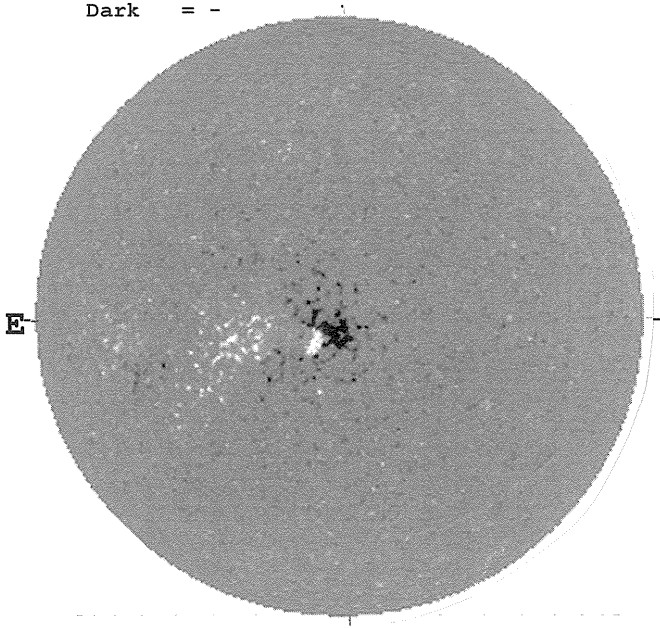
SACRAMENTO PEAK CORONA (1.15 Radii)-----



February 02, 2008 (P=-12.32, Bo=-6.05, Lo= 259.79)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

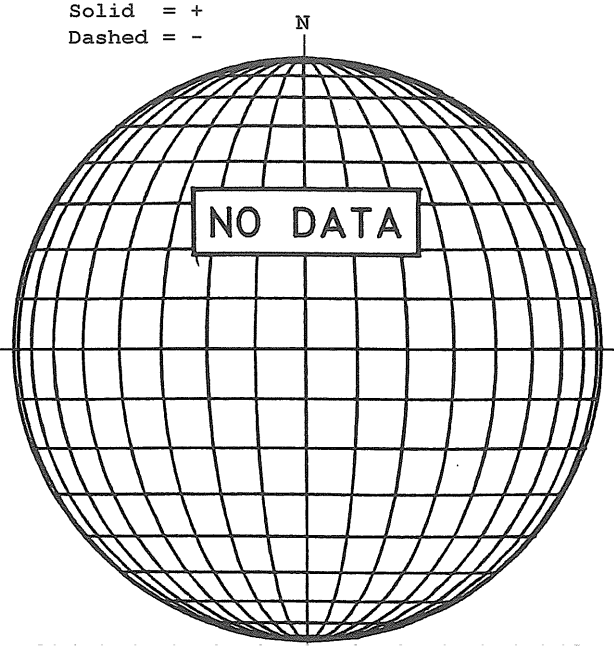


** 854.2NM **

1643 UT

STANFORD MAGNETOGRAM

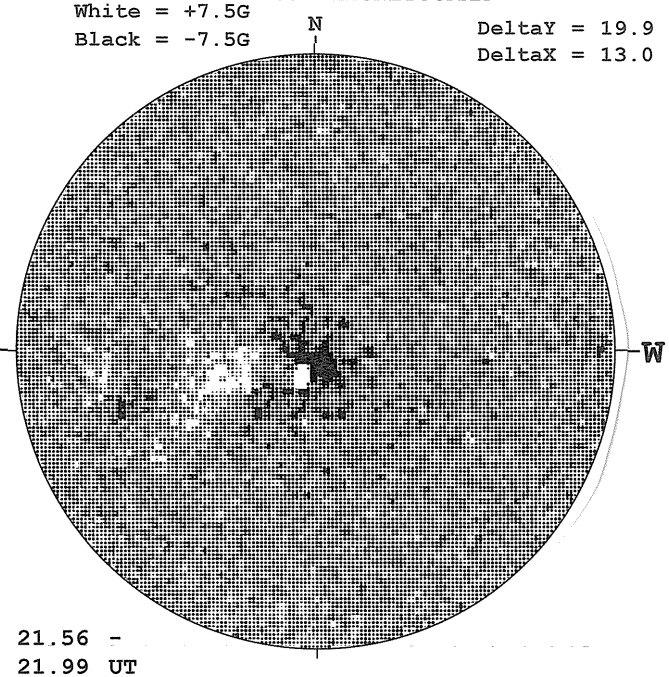
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

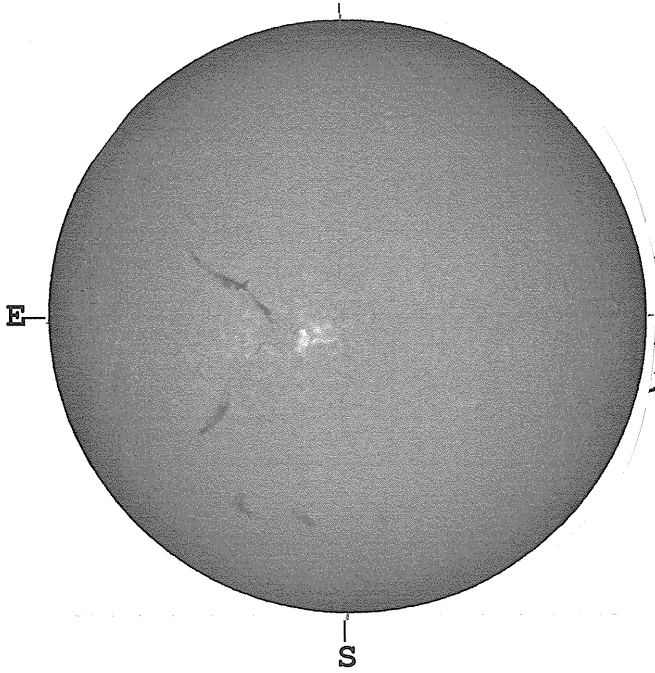
White = +7.5G
Black = -7.5G

DeltaY = 19.9
DeltaX = 13.0



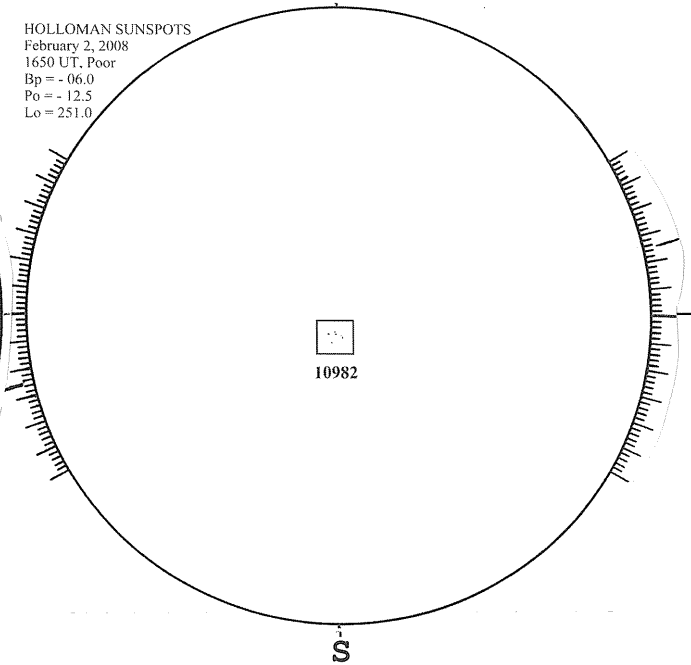
21.56 -
21.99 UT

CATANIA H-ALPHA



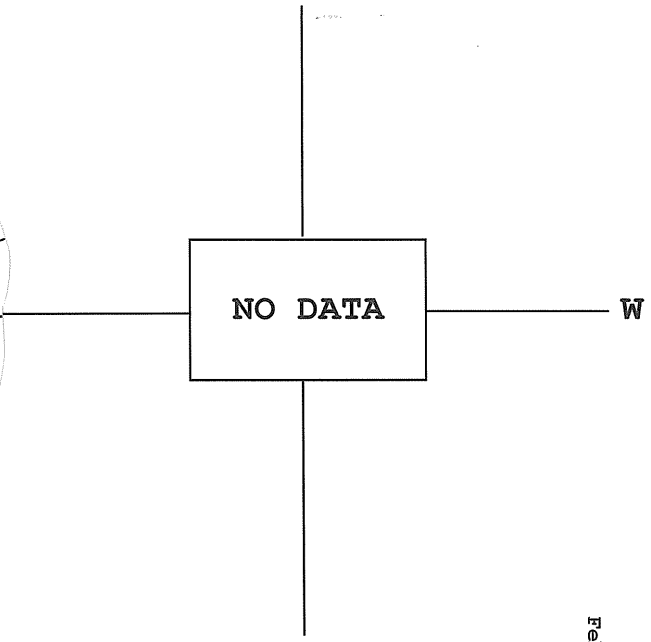
0947 UT

HOLLOMAN SUNSPOTS



1650 UT

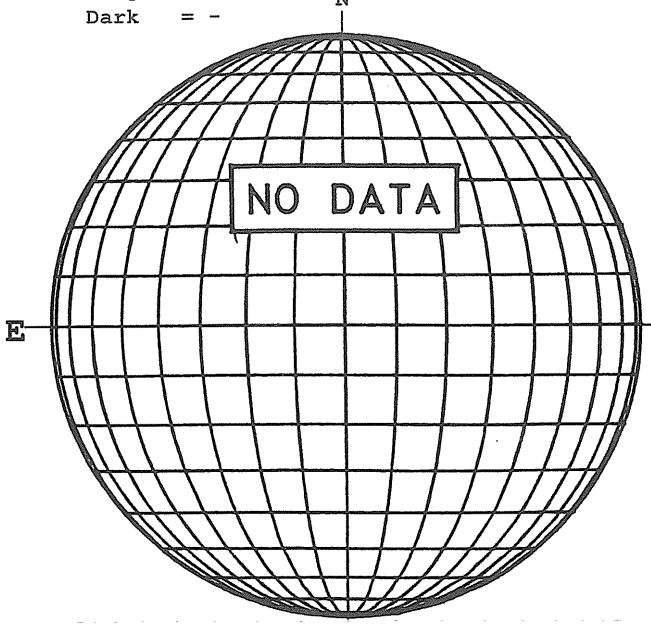
SACRAMENTO PEAK CORONA (1.15 Radii)-----



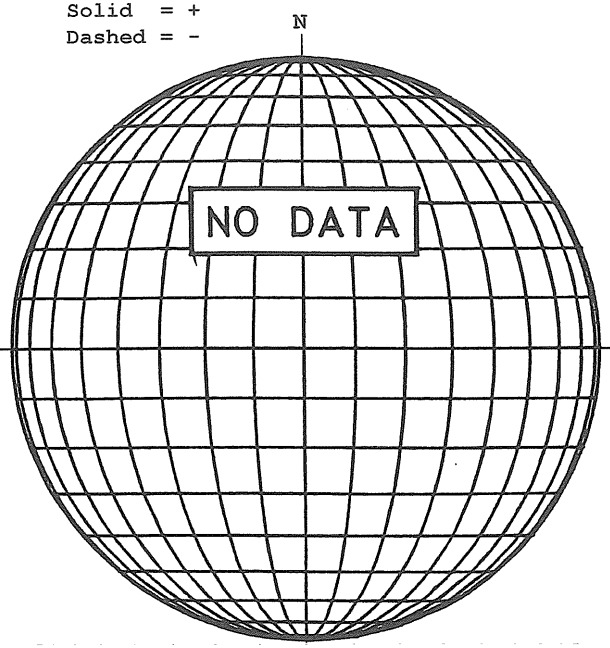
47
Feb 08

February 03, 2008 (P=-12.73, Bo=-6.12, Lo= 246.63)

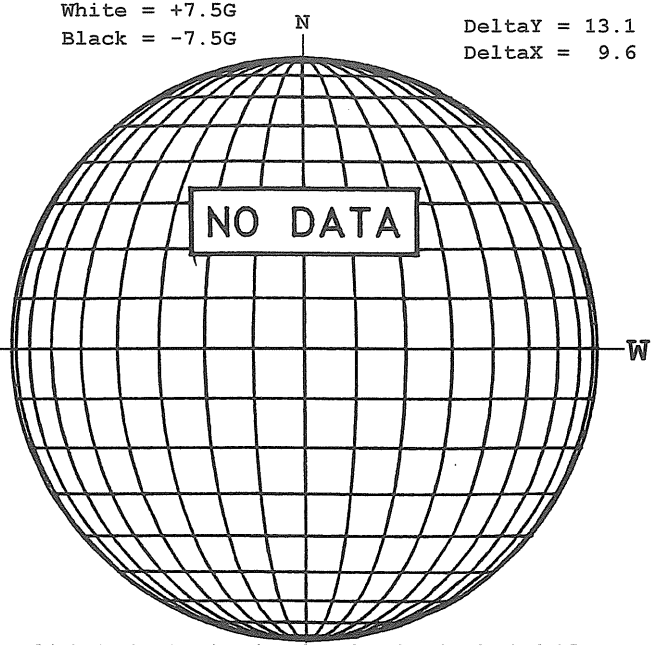
KITT PEAK MAGNETOGRAM -- SOLIS
Bright = +
Dark = -
** 854.2NM **



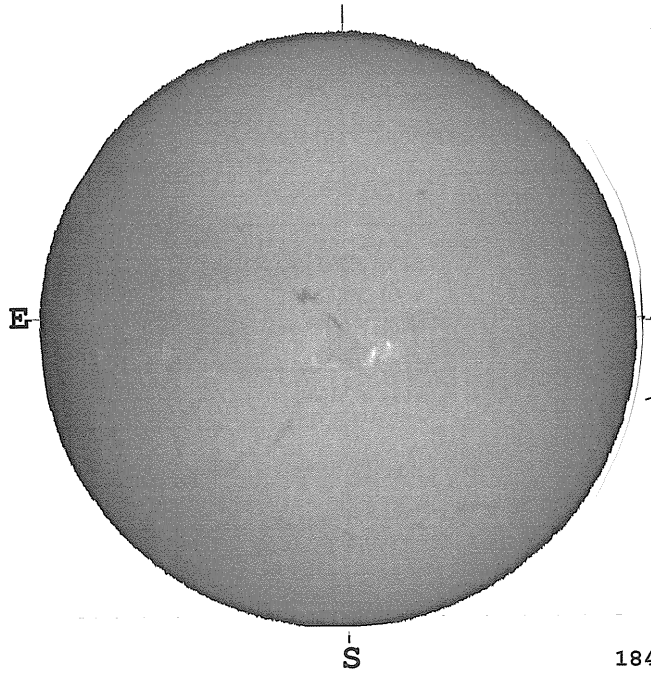
STANFORD MAGNETOGRAM
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM
White = +7.5G
Black = -7.5G
DeltaY = 13.1
DeltaX = 9.6

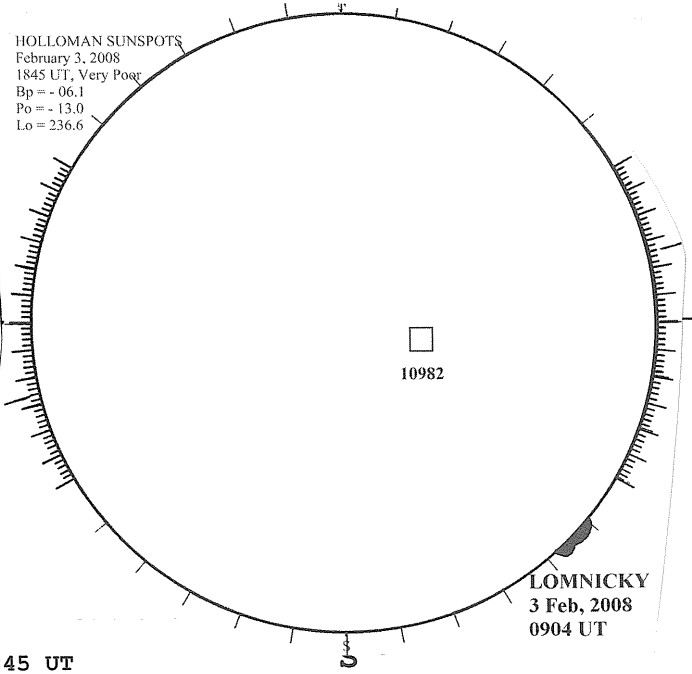


MEUDON H-ALPHA



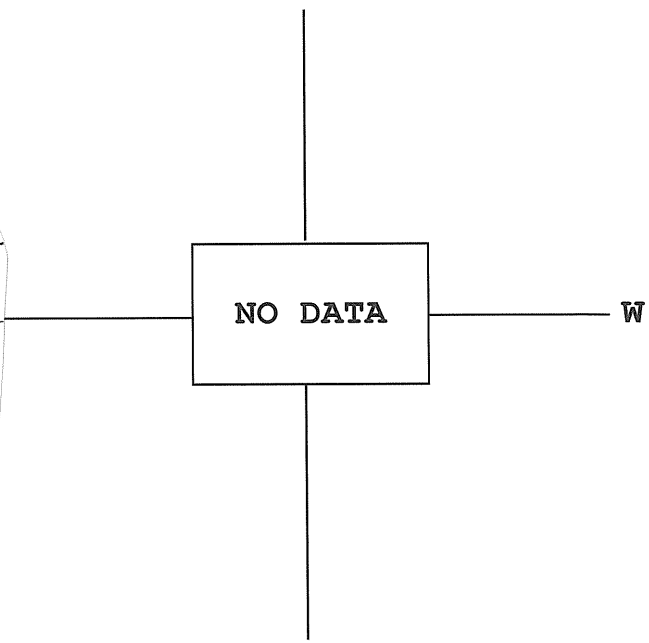
1321 UT

HOLLOMAN SUNSPOTS



1845 UT
0904 UT LOMN PROM

LOMNICKY PEAK CORONA (1.04 Radii)

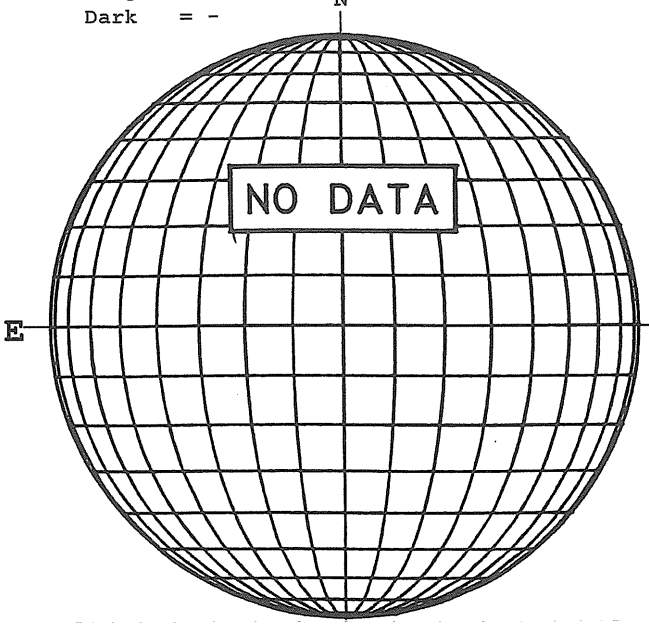


February 04, 2008 (P=-13.13, Bo=-6.19, Lo= 233.46)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

** 854.2NM **



STANFORD MAGNETOGRAM

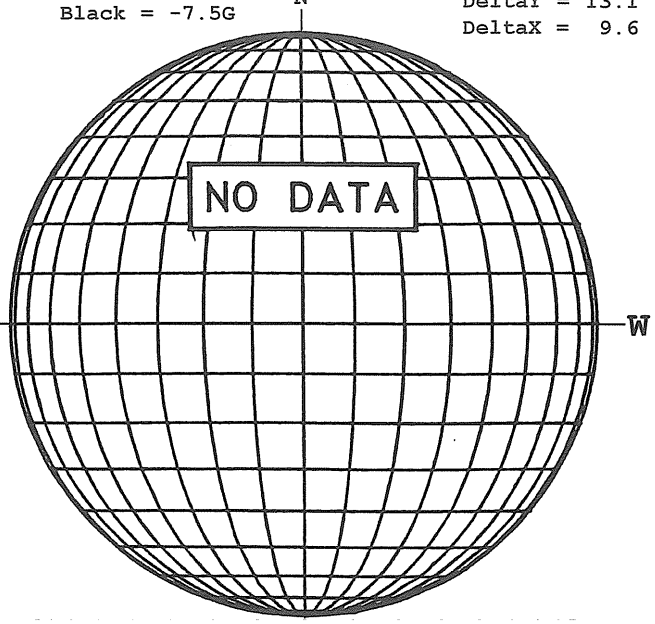
Solid = +
Dashed = -

2213 UT

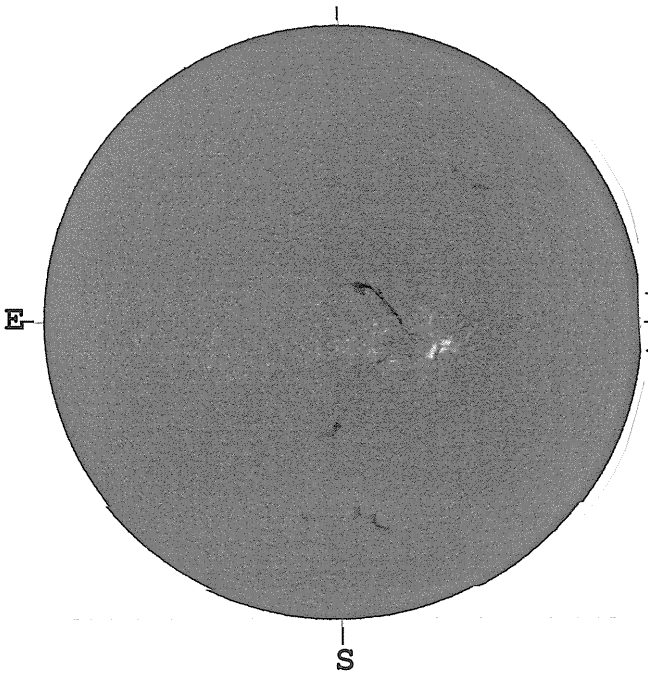
MT. WILSON MAGNETOGRAM

White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6

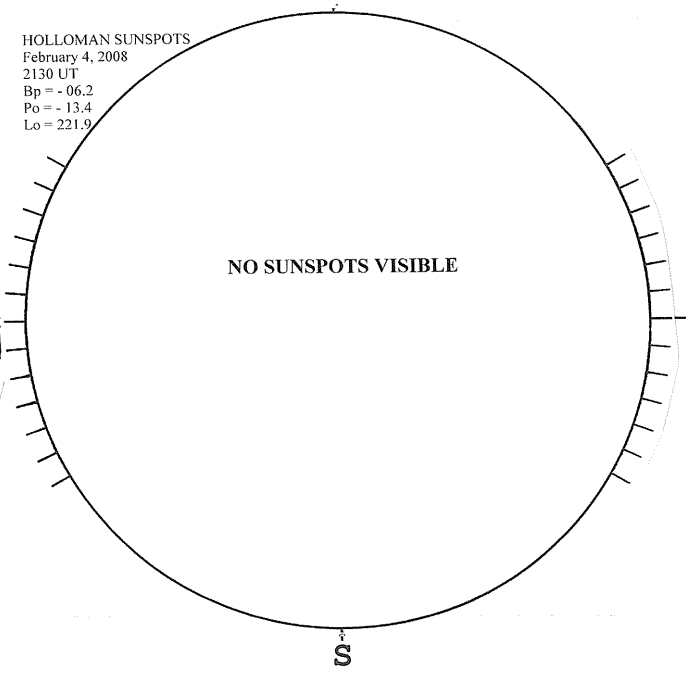


CATANIA H-ALPHA



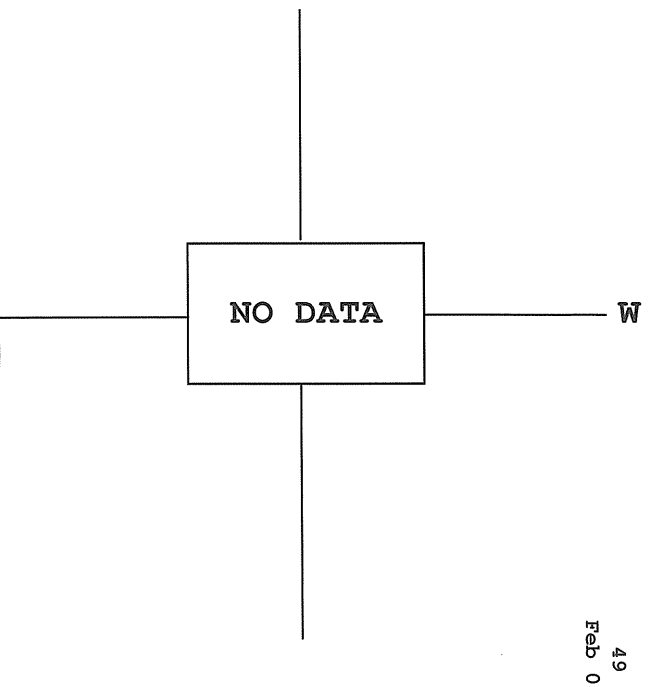
0842 UT

HOLLOMAN SUNSPOTS



2310 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----



49
Feb 08

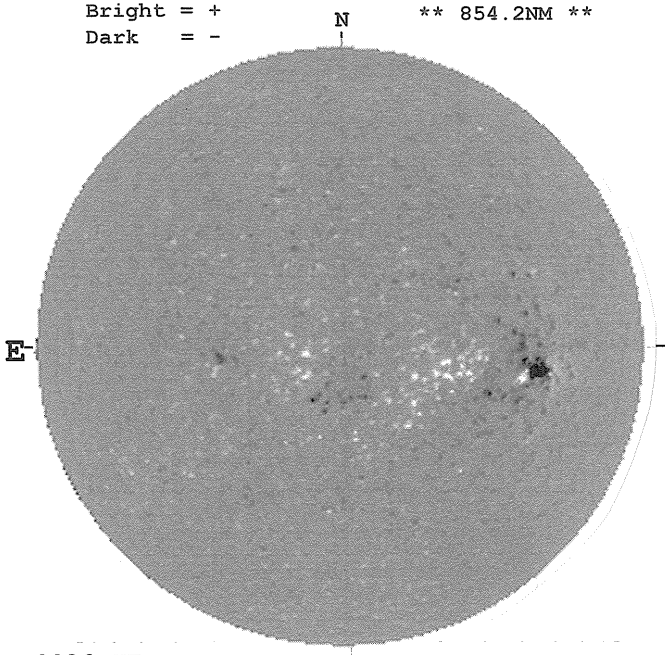
February 05, 2008 (P=-13.52, Bo=-6.26, Lo= 220.29)

Feb 08 50

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

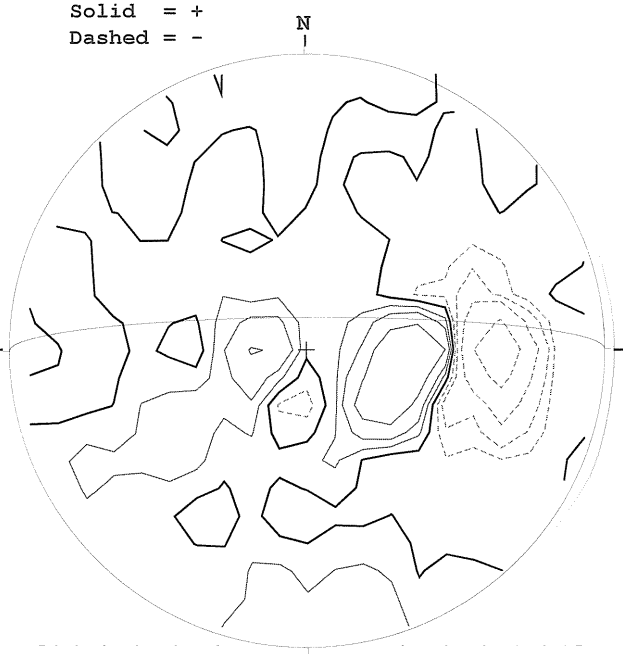
** 854.2NM **



2036 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

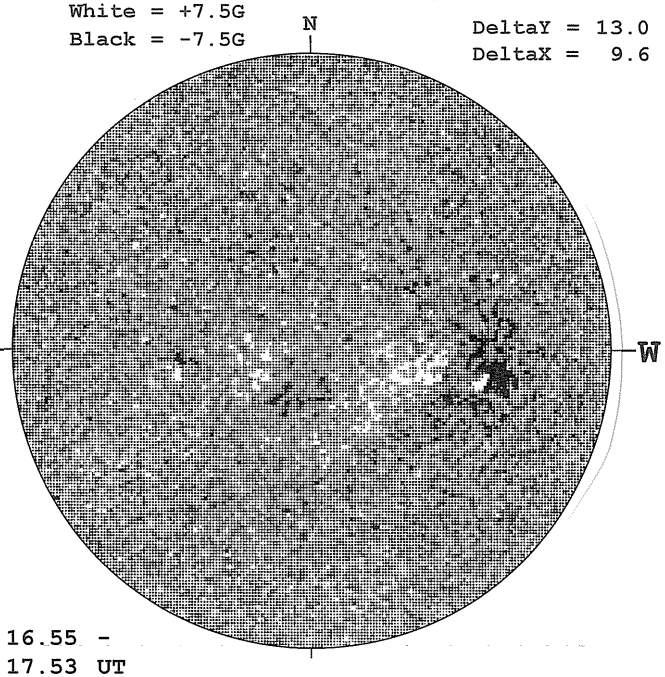


1907 UT

MT. WILSON MAGNETOGRAM

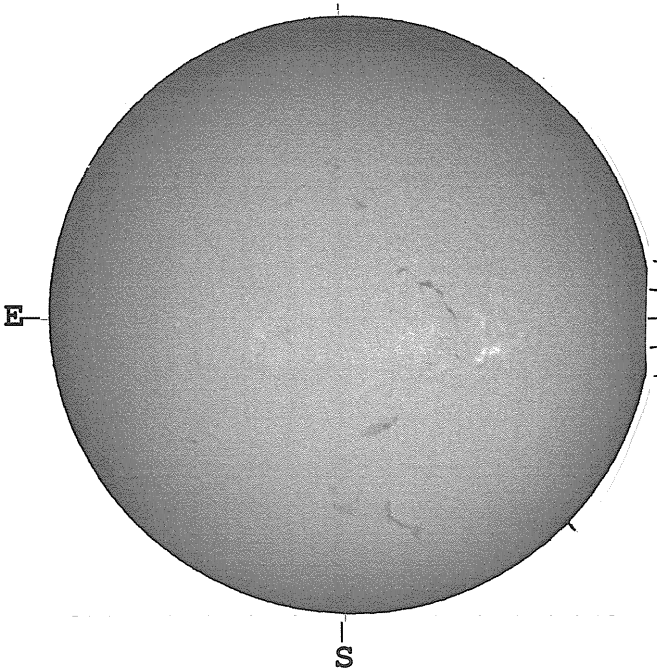
White = +7.5G
Black = -7.5G

DeltaY = 13.0
DeltaX = 9.6



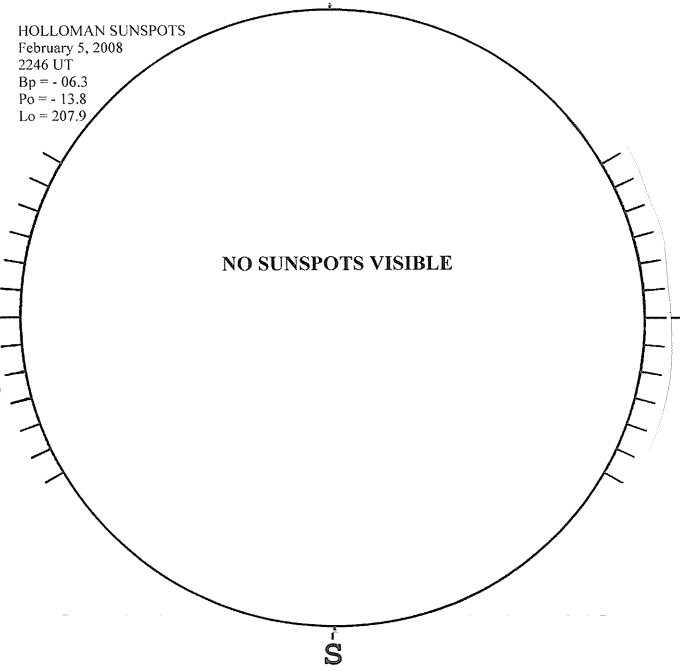
16.55 -
17.53 UT

YUNNAN H-ALPHA



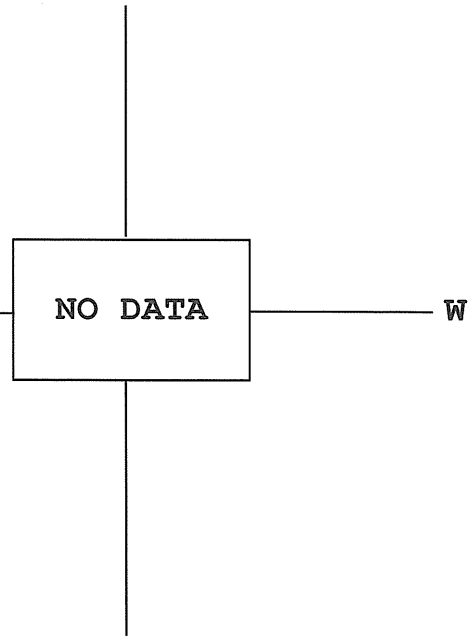
0131 UT

HOLLOMAN SUNSPOTS



2246 UT

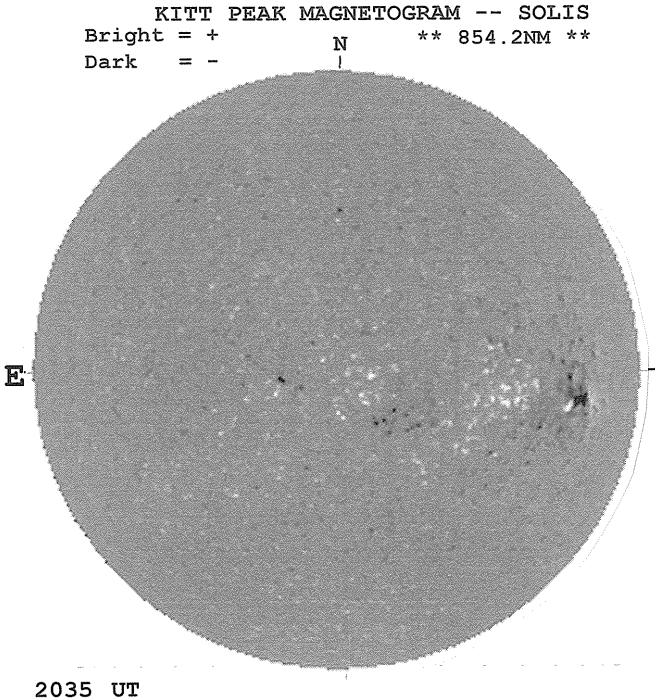
SACRAMENTO PEAK CORONA (1.15 Radii)-----



February 06, 2008 (P=-13.91, Bo=-6.32, Lo= 207.13)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

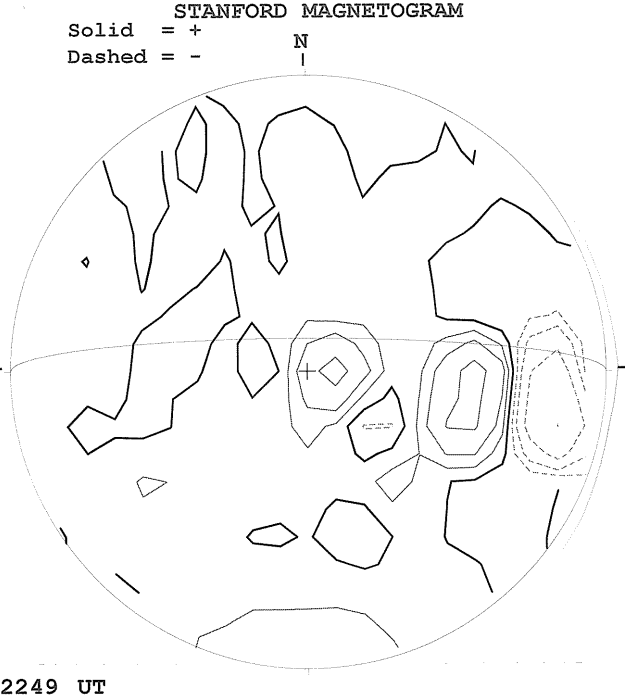


** 854.2NM **

2035 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

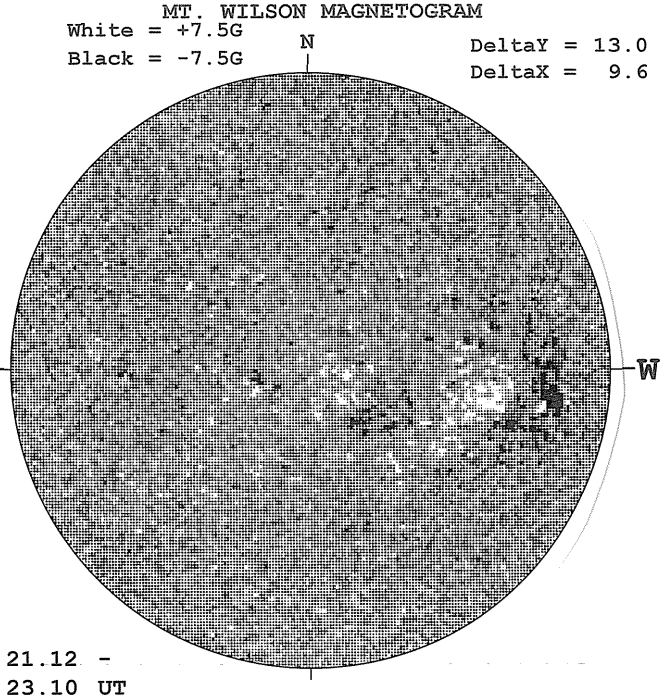


2249 UT

MT. WILSON MAGNETOGRAM

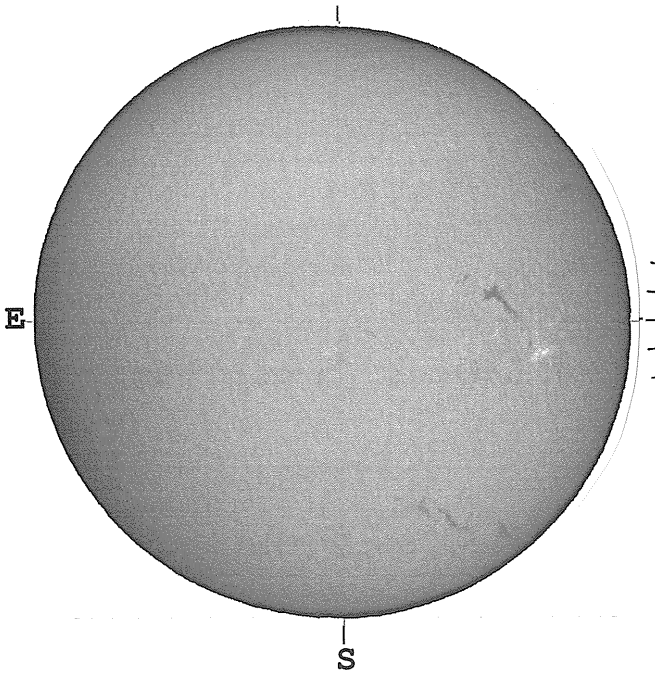
White = +7.5G
Black = -7.5G

DeltaY = 13.0
DeltaX = 9.6



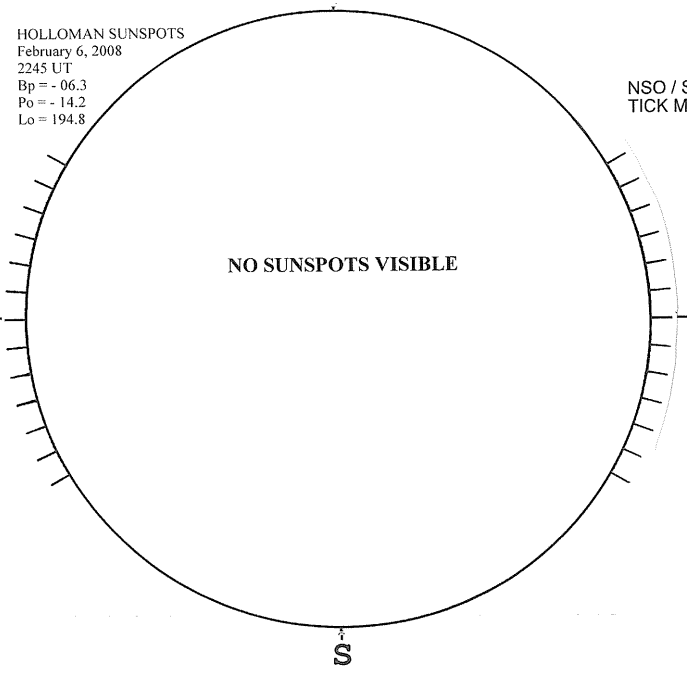
21.12 -
23.10 UT

MEUDON H-ALPHA



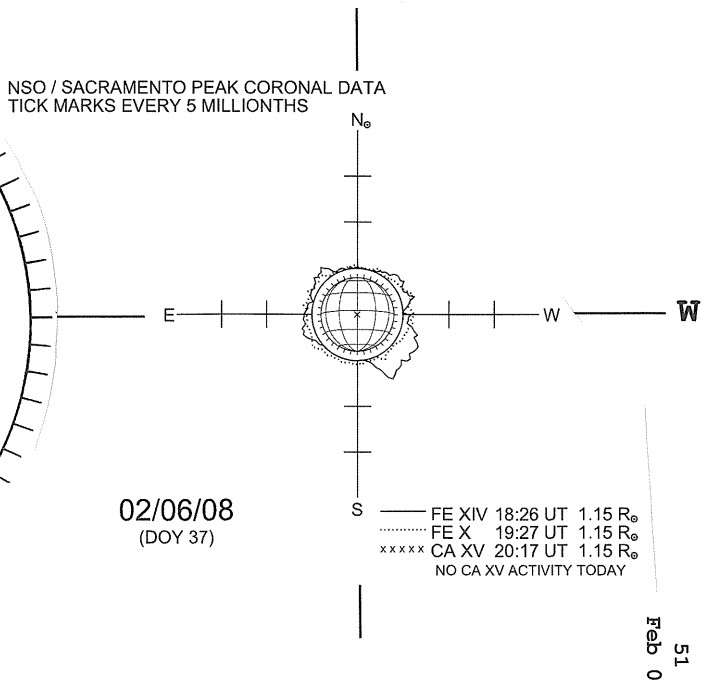
0829 UT

HOLLOMAN SUNSPOTS



2245 UT

SACRAMENTO PEAK CORONA (1.15 Radii)-----



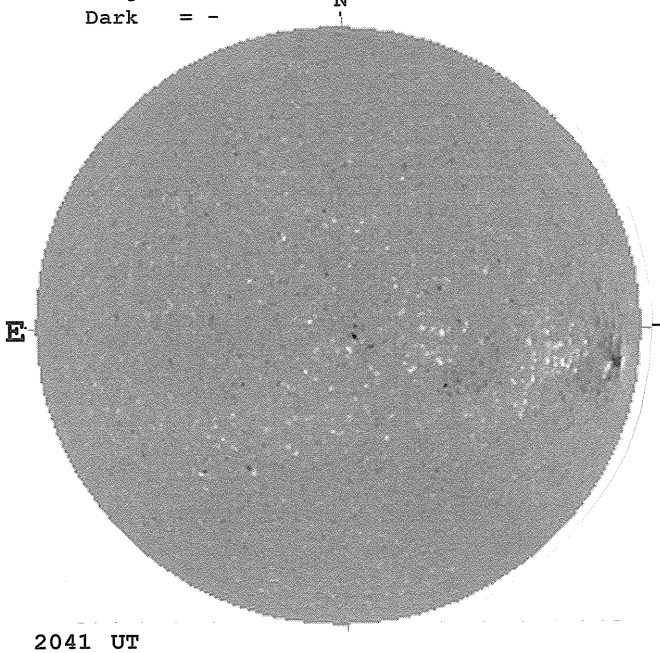
51
Feb 08

February 07, 2008 (P=-14.30, Bo=-6.38, Lo= 193.96)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

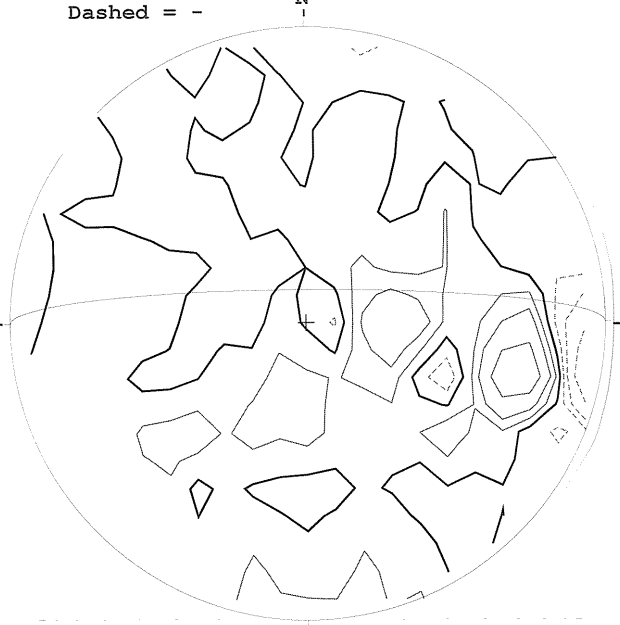
** 854.2NM **



2041 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

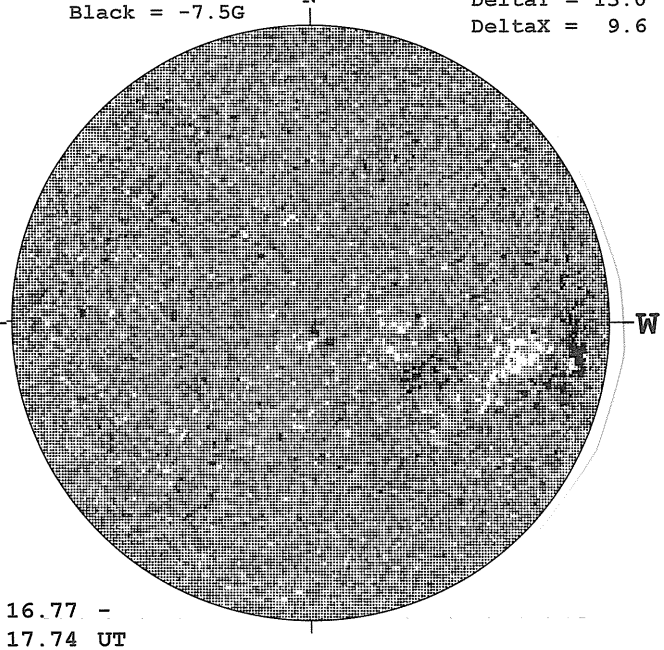


2123 UT

MT. WILSON MAGNETOGRAM

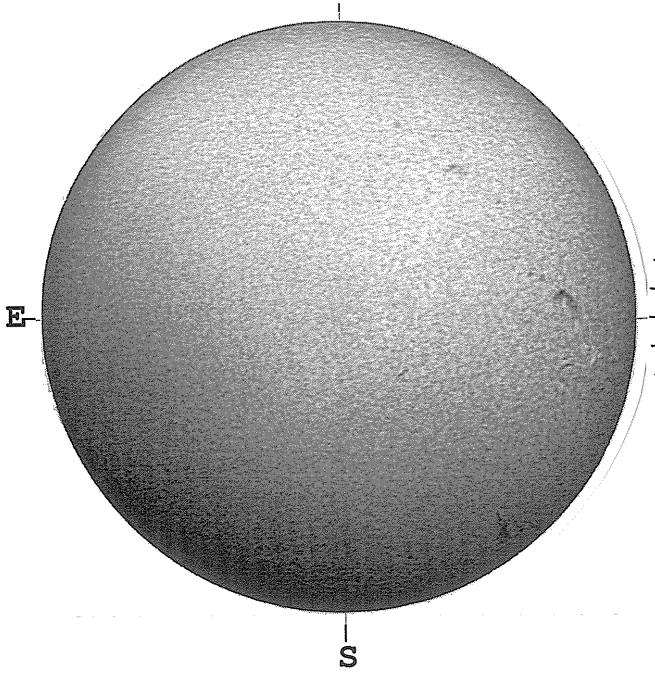
White = +7.5G
Black = -7.5G

DeltaY = 13.0
DeltaX = 9.6



16.77 -
17.74 UT

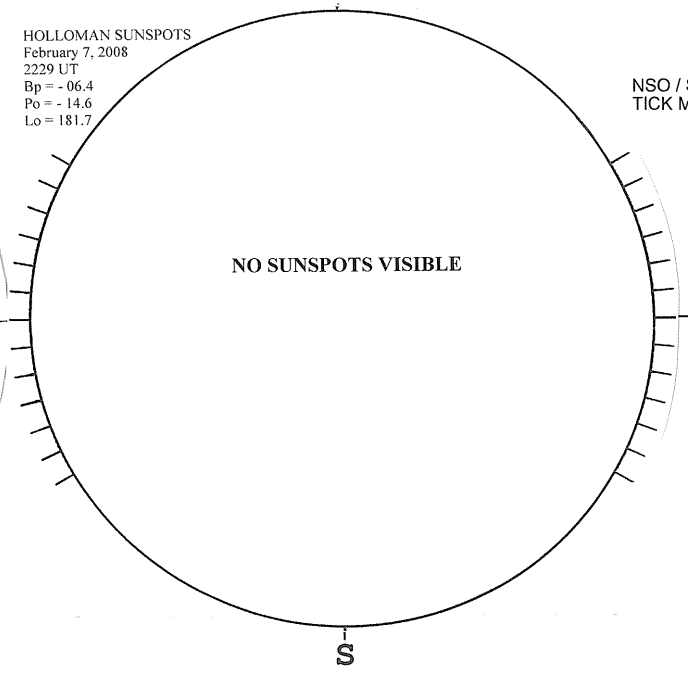
--- PIC DU MIDI H-ALPHA



1249 UT

HOLLOMAN SUNSPOTS

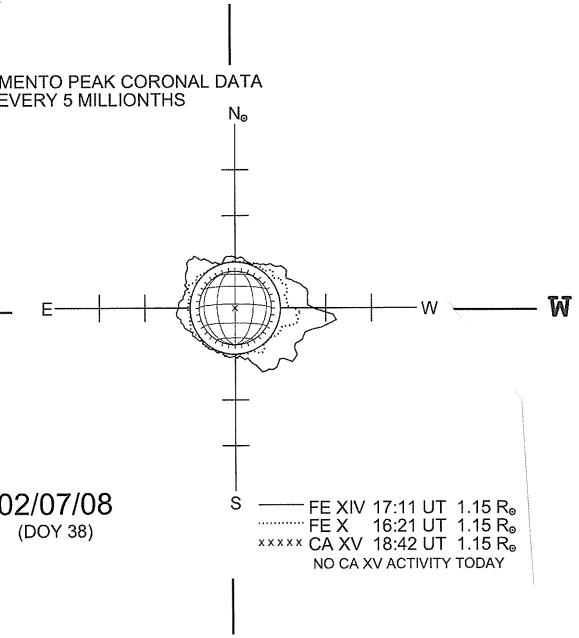
HOLLOMAN SUNSPOTS
February 7, 2008
2229 UT
Bp = - 06.4
Po = - 14.6
Lo = 181.7



2229 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 5 MILLIONTHS



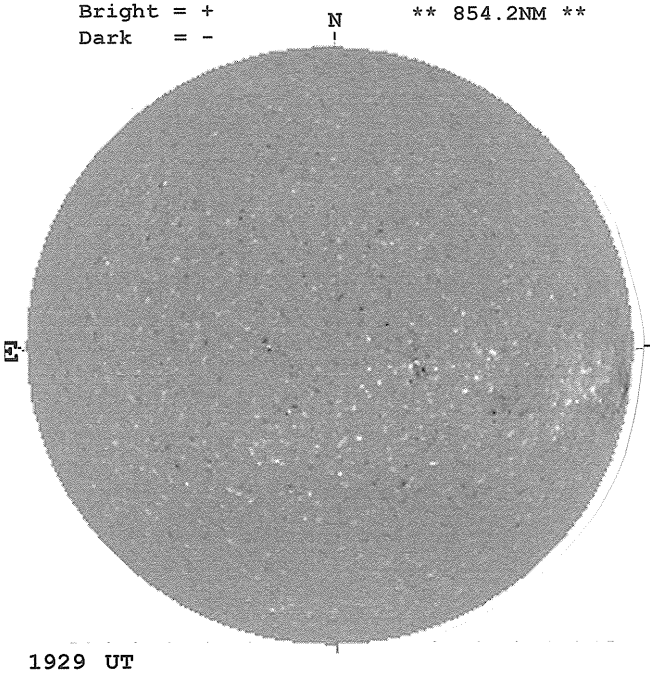
02/07/08
(DOY 38)

FE XIV 17:11 UT 1.15 R⊙
FE X 16:21 UT 1.15 R⊙
xxxxx CA XV 18:42 UT 1.15 R⊙
NO CA XV ACTIVITY TODAY

February 08, 2008 (P=-14.67, Bo=-6.44, Lo= 180.80)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -



** 854.2NM **

1929 UT

STANFORD MAGNETOGRAM

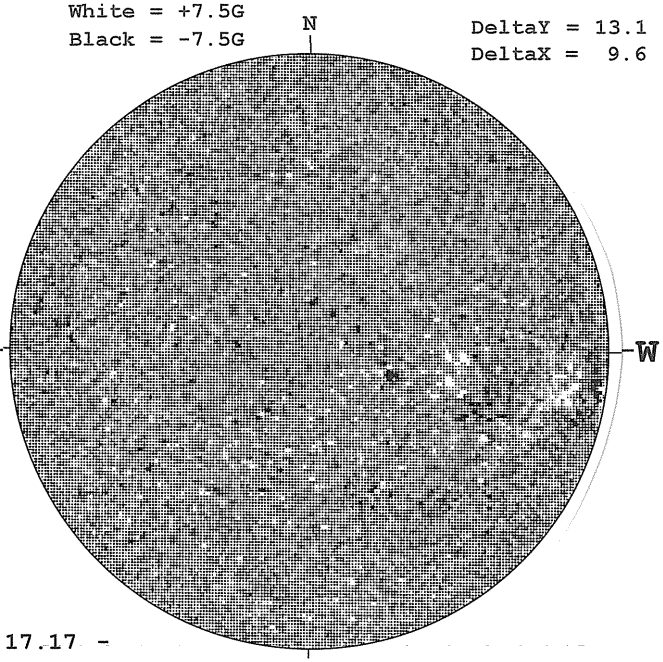
Solid = +
Dashed = -

2126 UT

MT. WILSON MAGNETOGRAM

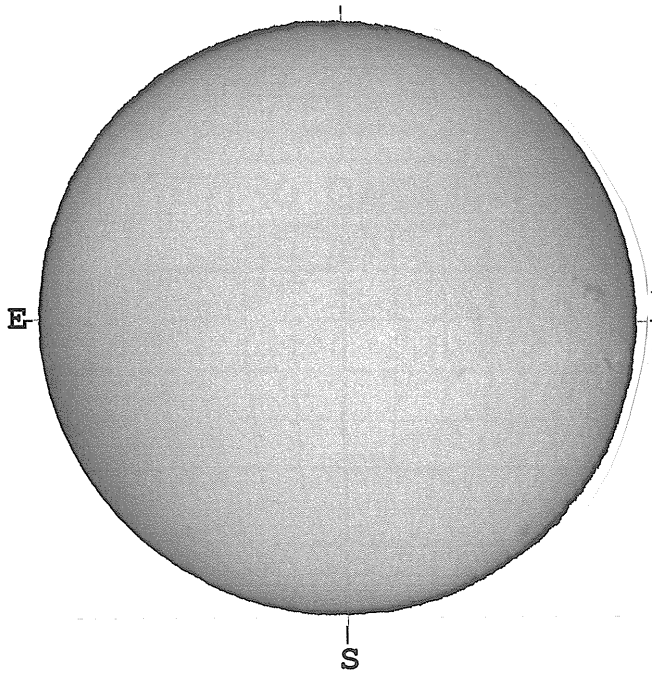
White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6



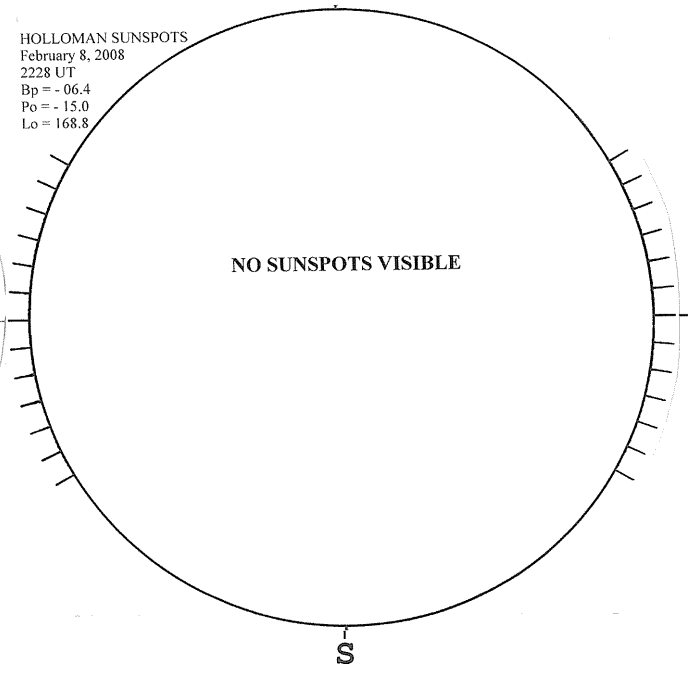
17.17 -
18.14 UT

MEUDON H-ALPHA



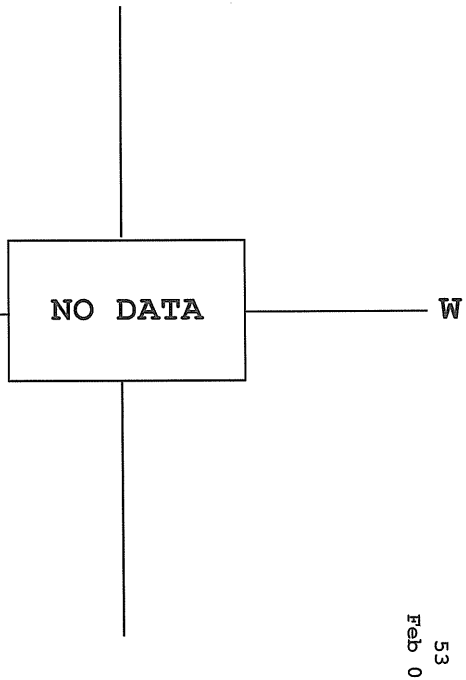
0922 UT

HOLLOMAN SUNSPOTS



2228 UT

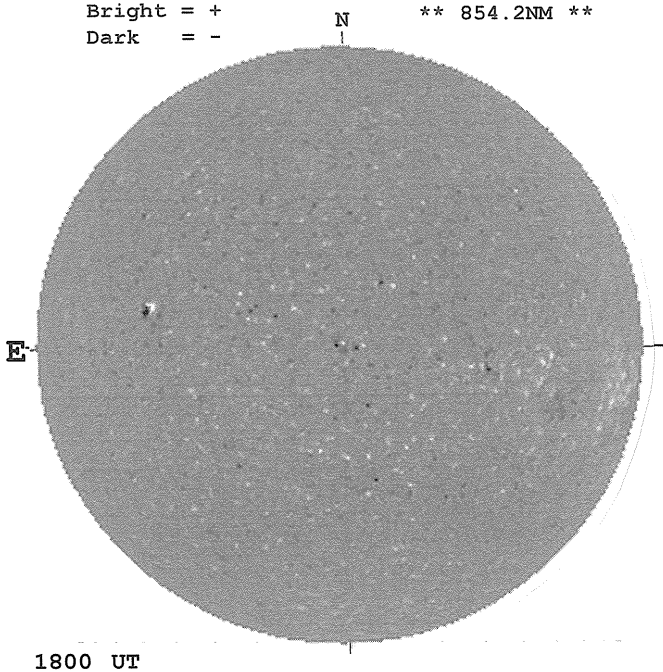
SACRAMENTO PEAK CORONA (1.15 Radii)-----



53
Feb 08

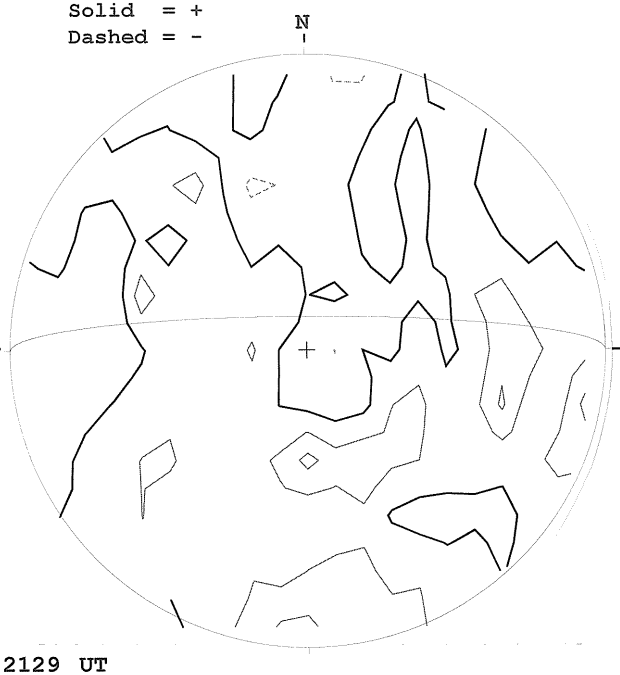
February 09, 2008 (P=-15.05, Bo=-6.50, Lo= 167.63)

KITT PEAK MAGNETOGRAM -- SOLIS
Bright = +
Dark = -
** 854.2NM **



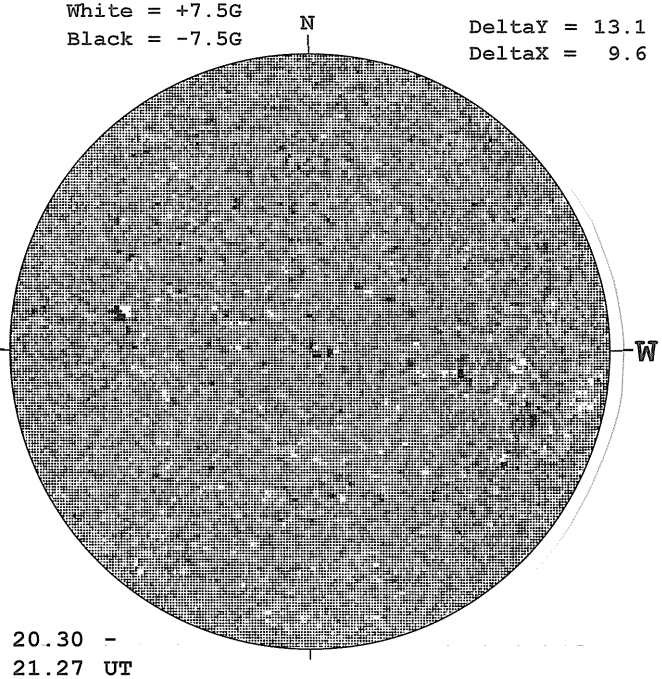
1800 UT

STANFORD MAGNETOGRAM
Solid = +
Dashed = -



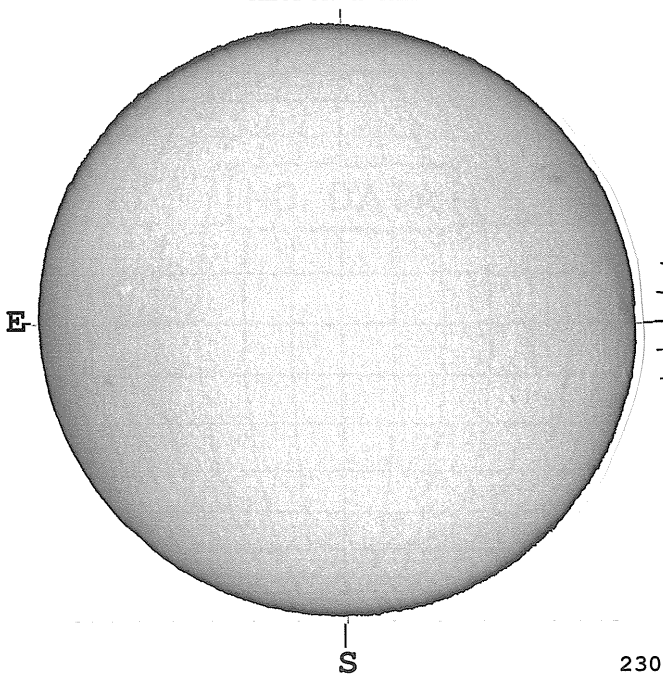
2129 UT

MT. WILSON MAGNETOGRAM
White = +7.5G
Black = -7.5G
DeltaY = 13.1
DeltaX = 9.6



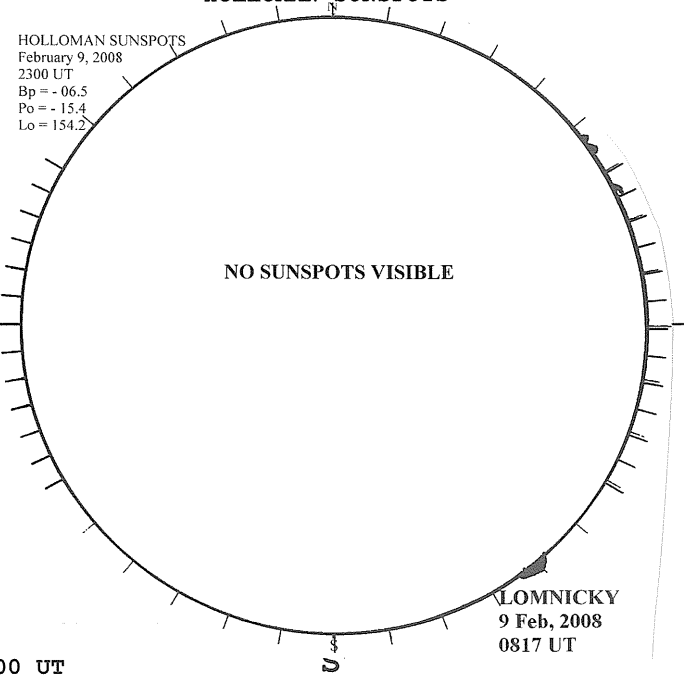
20.30 -
21.27 UT

--- MEUDON H-ALPHA



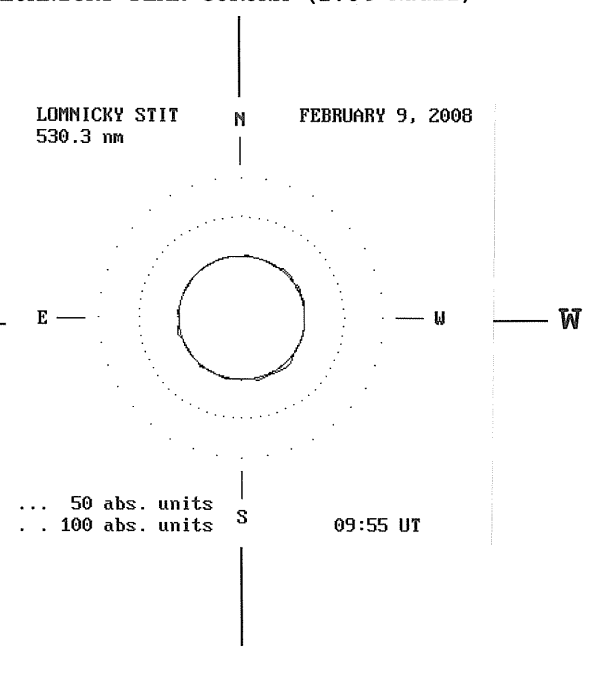
0806 UT

HOLLOMAN SUNSPOTS



2300 UT
0817 UT LOMN PROM

LOMNICKY PEAK CORONA (1.04 Radii)------

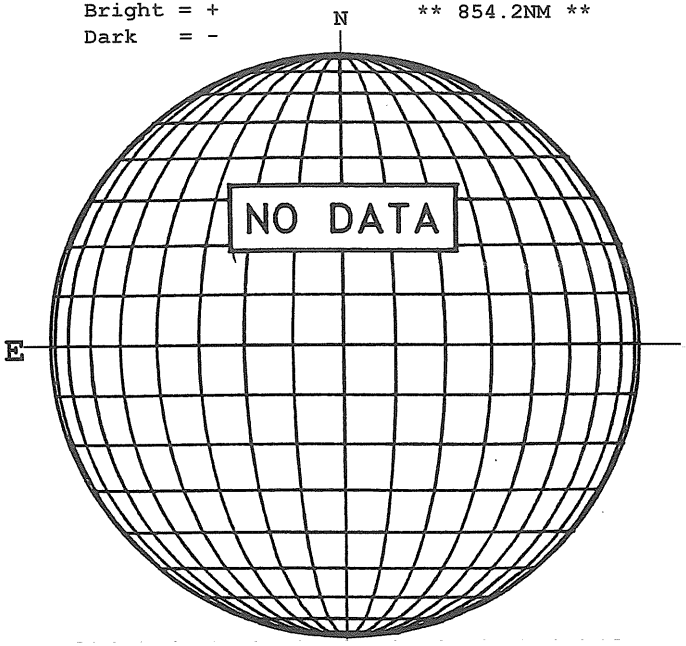


February 10, 2008 (P=-15.42, Bo=-6.56, Lo= 154.46)

KITT PEAK MAGNETOGRAM -- SOLIS

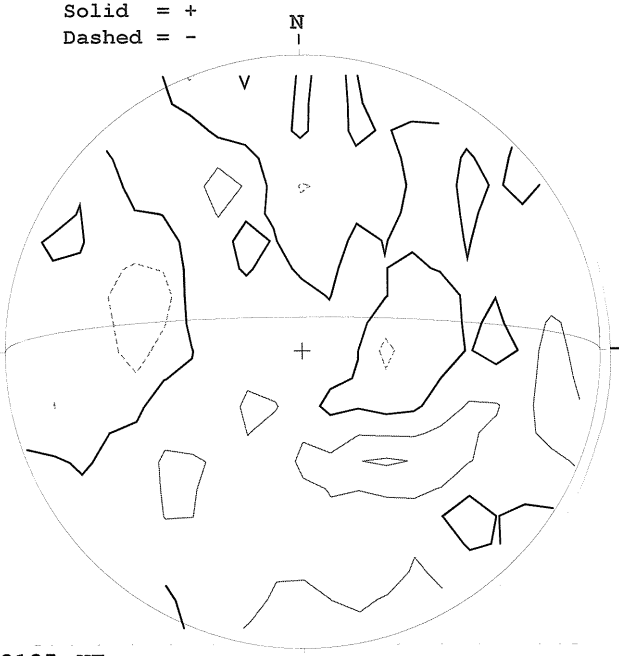
Bright = +
Dark = -

** 854.2NM **



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

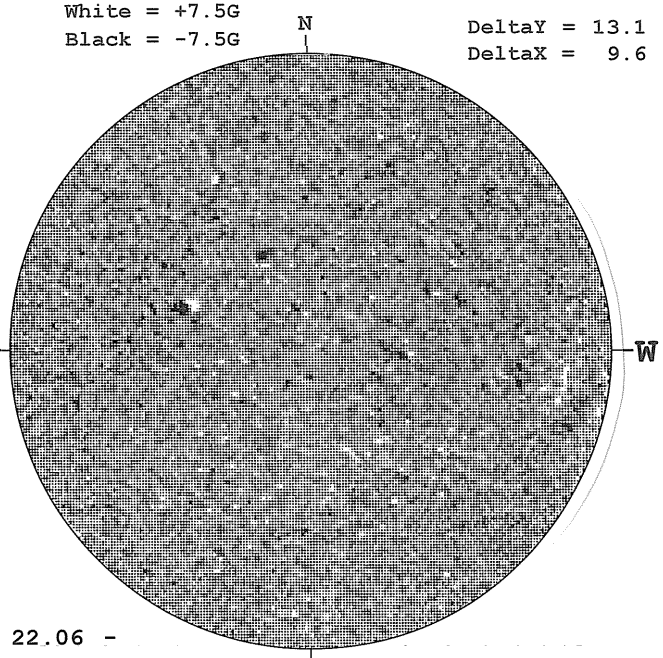


2125 UT

MT. WILSON MAGNETOGRAM

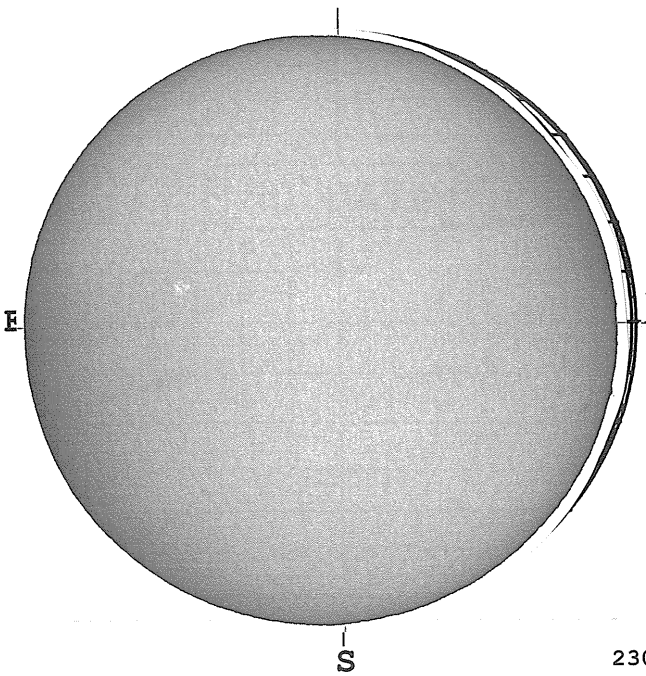
White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6



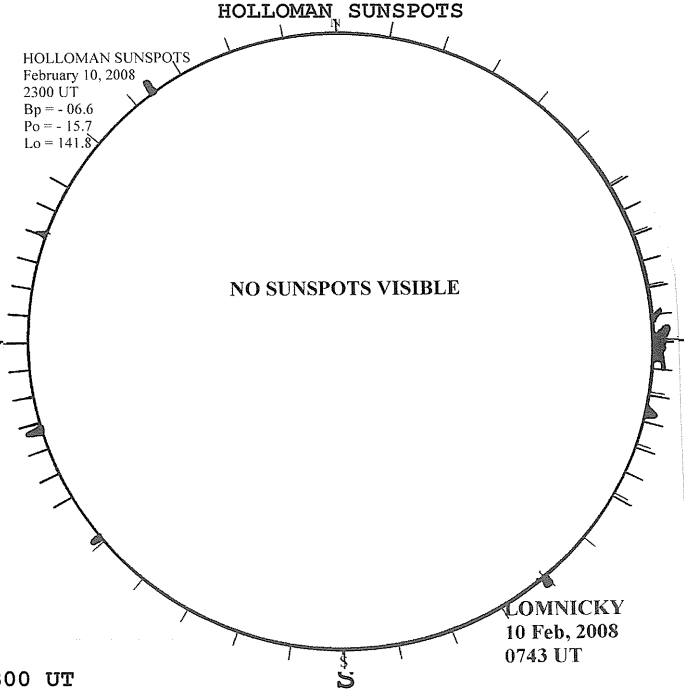
22.06 -
23.03 UT

--- MEUDON H-ALPHA



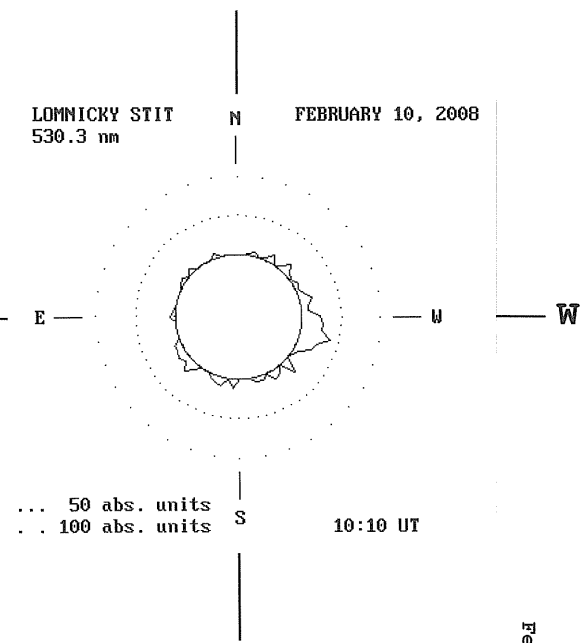
1429 UT

HOLLOMAN SUNSPOTS



2300 UT
0743 UT LOMN PROM

LOMNICKY PEAK CORONA (1.04 Radii)------

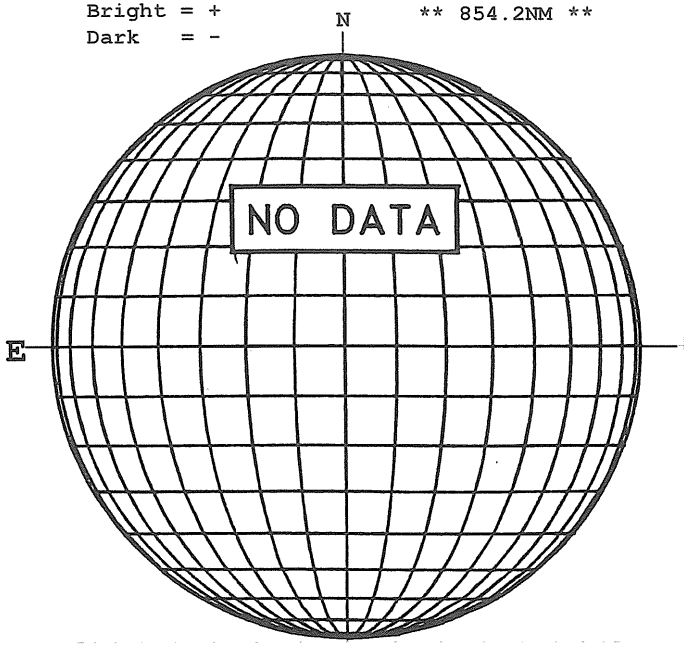


55
Feb 08

February 11, 2008 (P=-15.78, Bo=-6.61, Lo= 141.30)

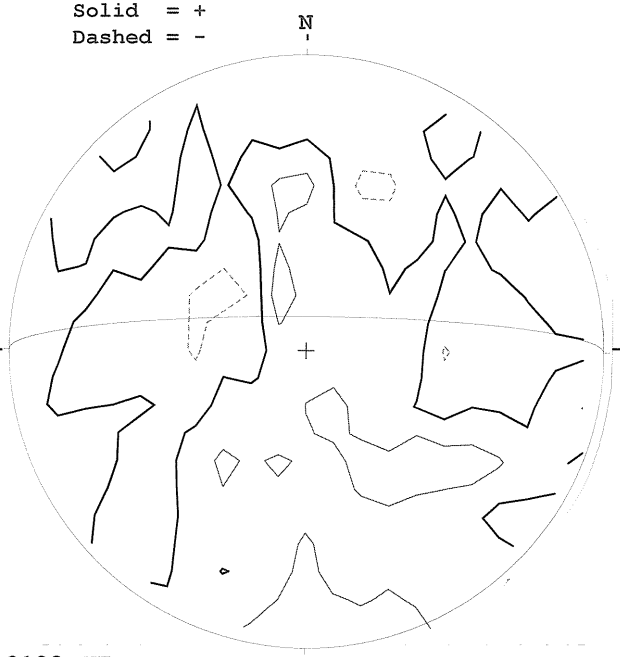
KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -
** 854.2NM **



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

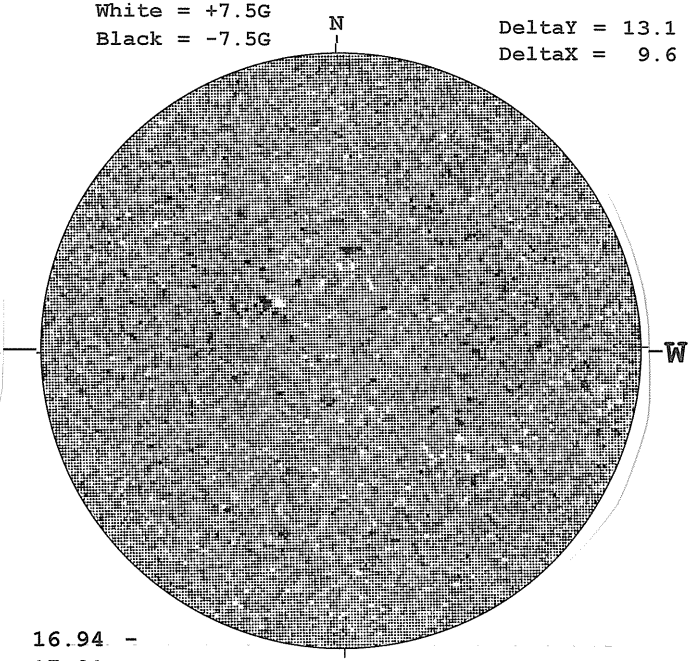


2128 UT

MT. WILSON MAGNETOGRAM

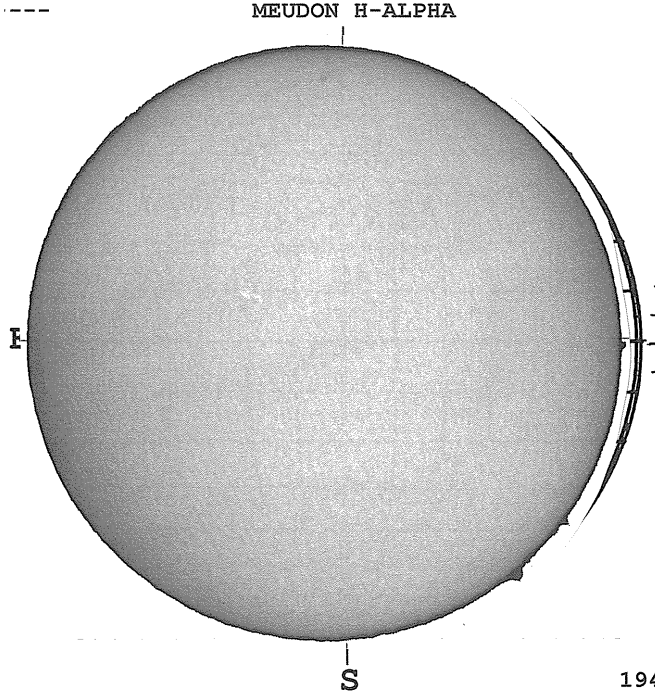
White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6



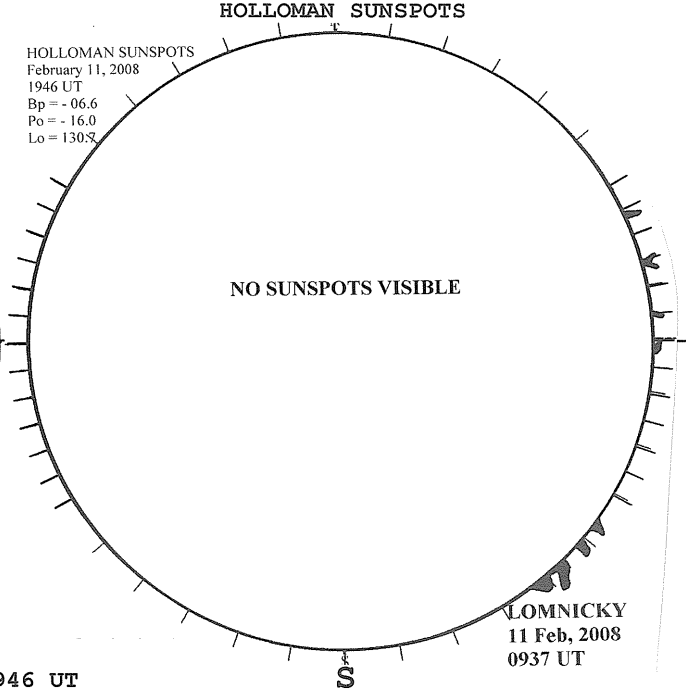
16.94 -
17.91 UT

MEUDON H-ALPHA



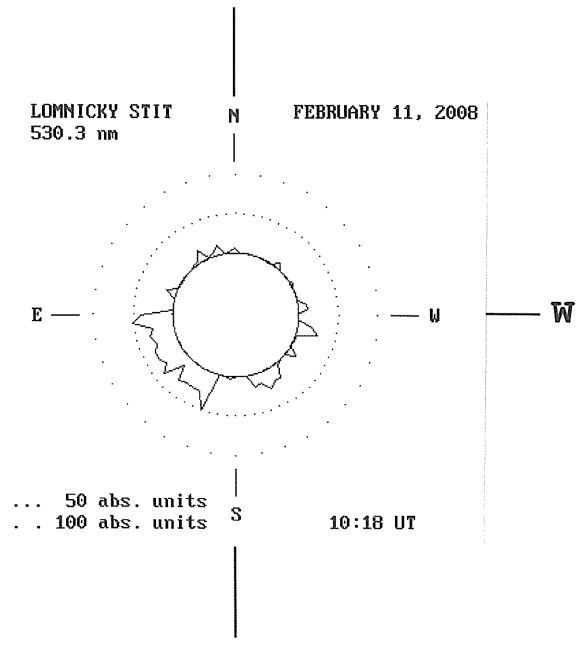
1443 UT

HOLLOMAN SUNSPOTS



1946 UT
0937 UT LOMN PROM

LOMNICKY PEAK CORONA (1.04 Radii)

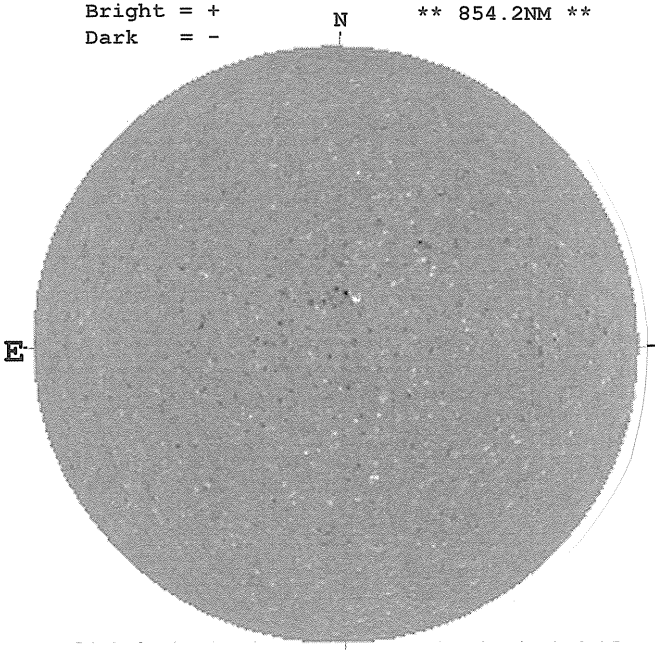


February 12, 2008 (P=-16.14, Bo=-6.66, Lo= 128.13)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

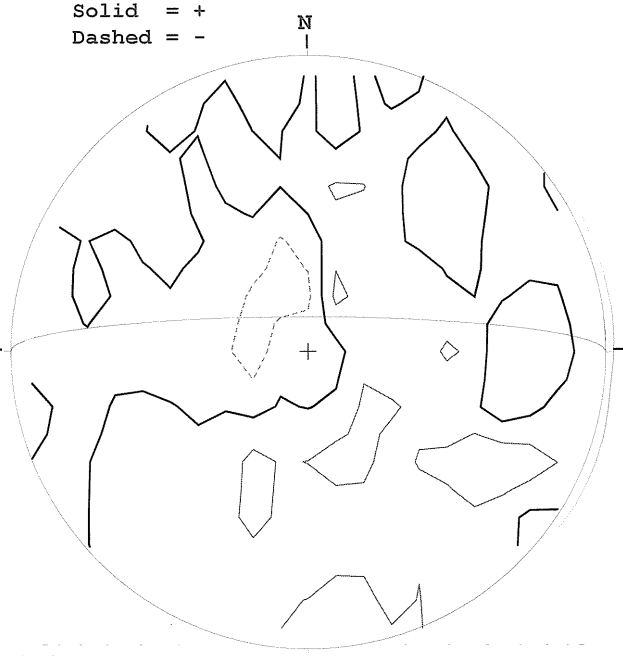
** 854.2NM **



2032 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

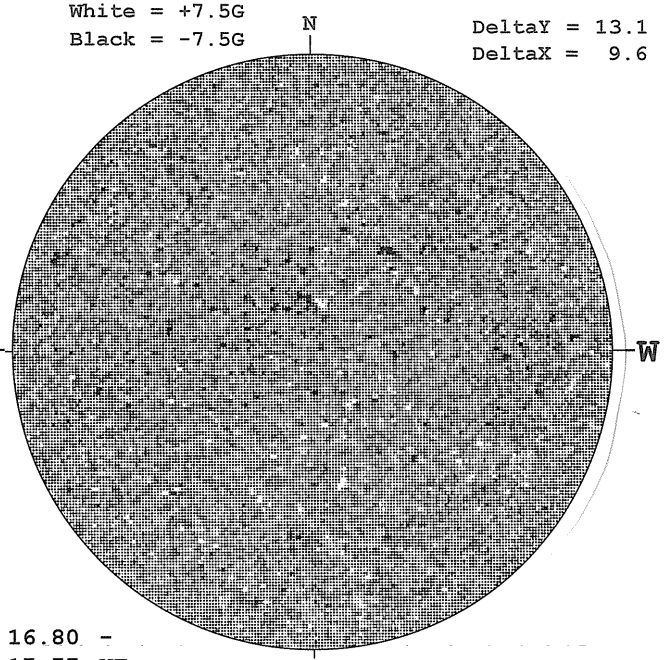


1858 UT

MT. WILSON MAGNETOGRAM

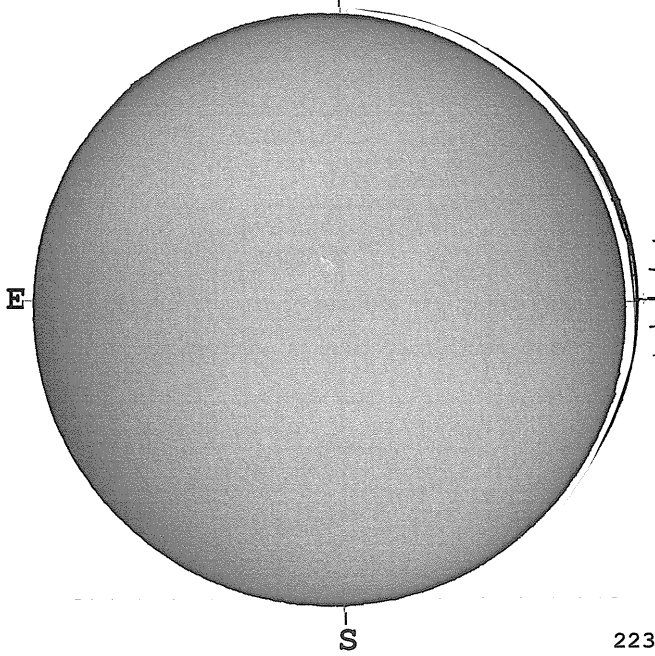
White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6



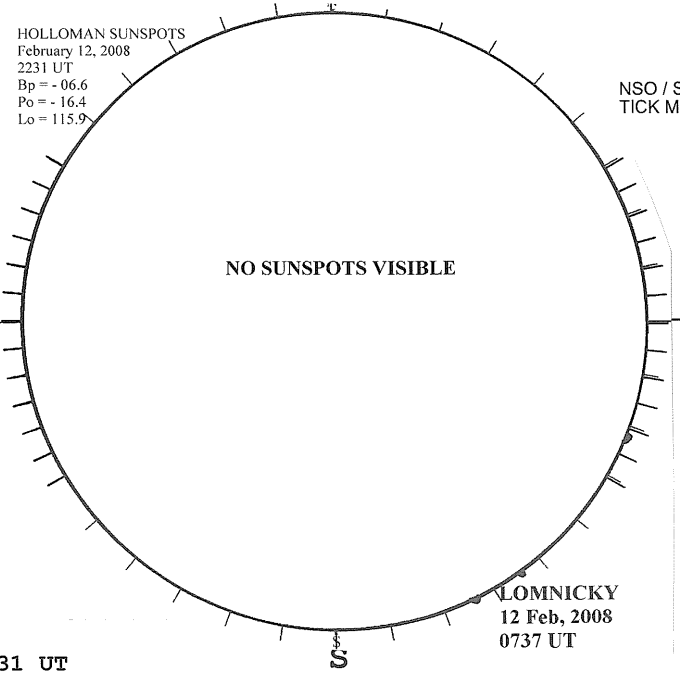
16.80 -
17.77 UT

--- MEUDON H-ALPHA



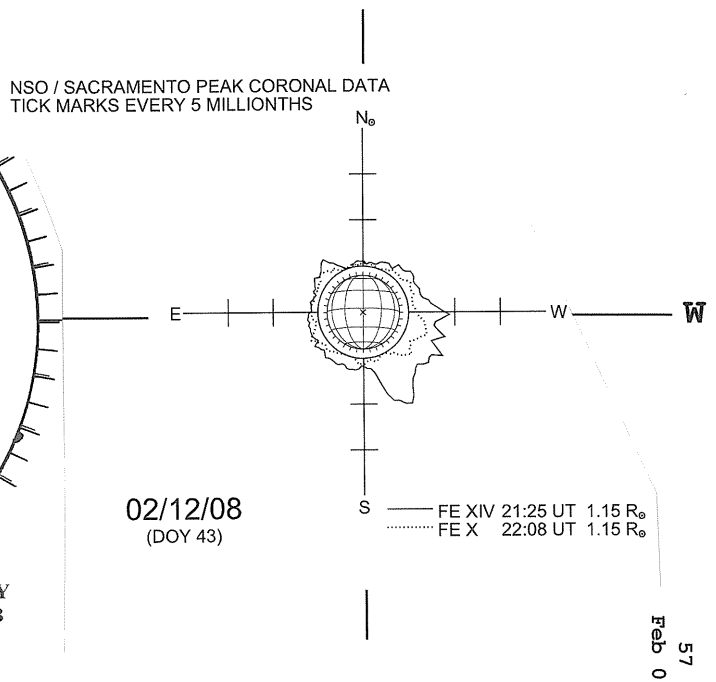
1459 UT

HOLLOMAN SUNSPOTS



2231 UT
0737 UT LOMN PROM

SACRAMENTO PEAK CORONA (1.15 Radii)-----



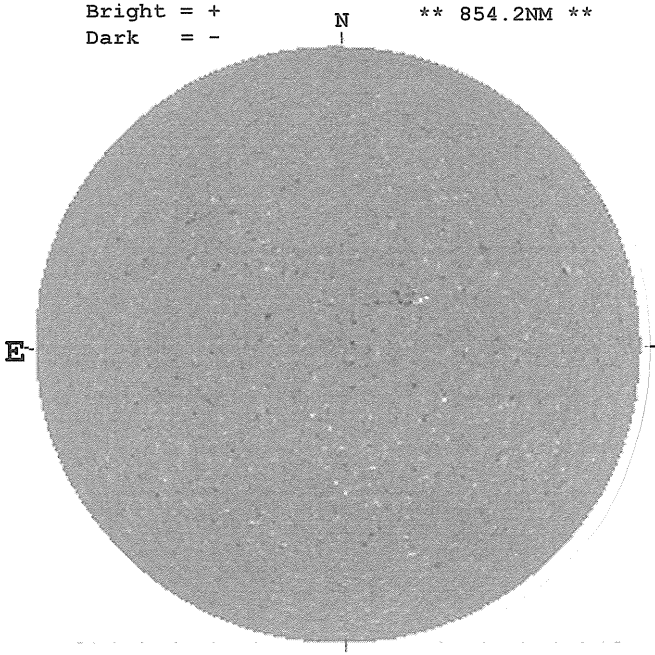
57
Feb 08

February 13, 2008 (P=-16.49, Bo=-6.71, Lo= 114.96)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

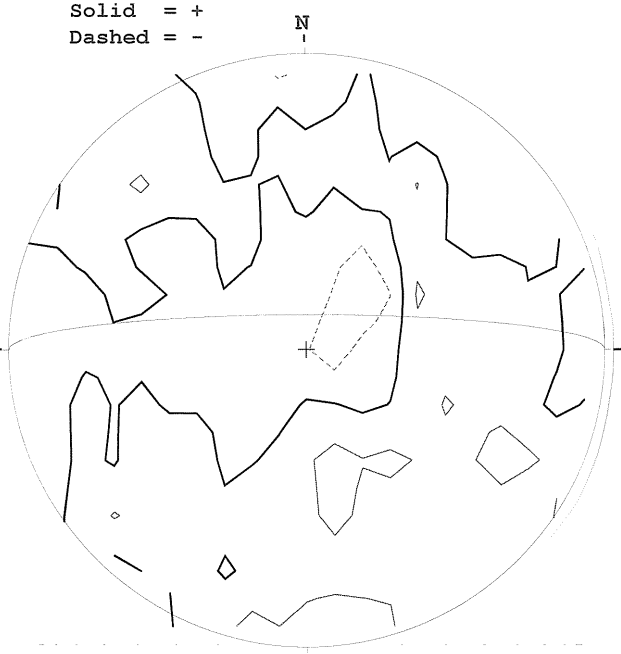
** 854.2NM **



1827 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

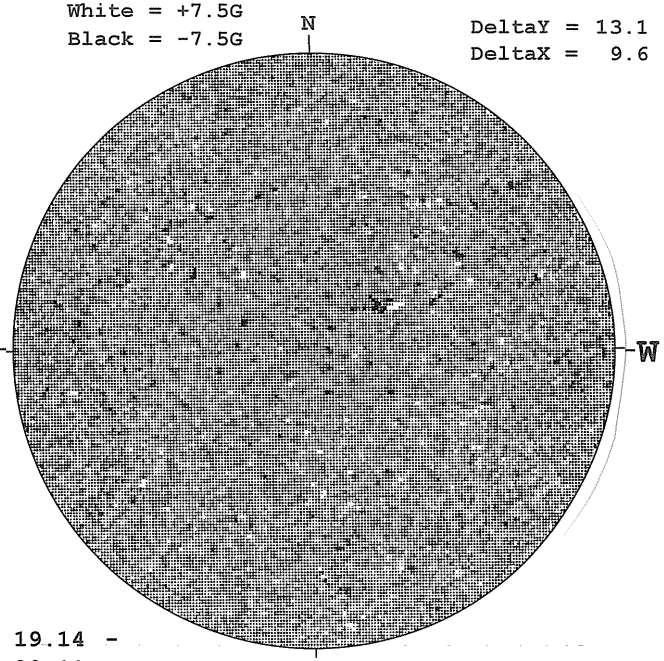


2326 UT

MT. WILSON MAGNETOGRAM

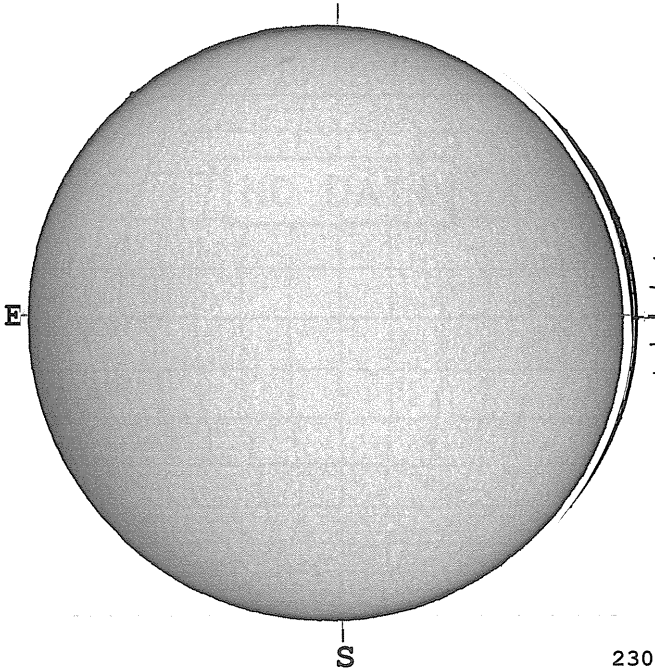
White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6



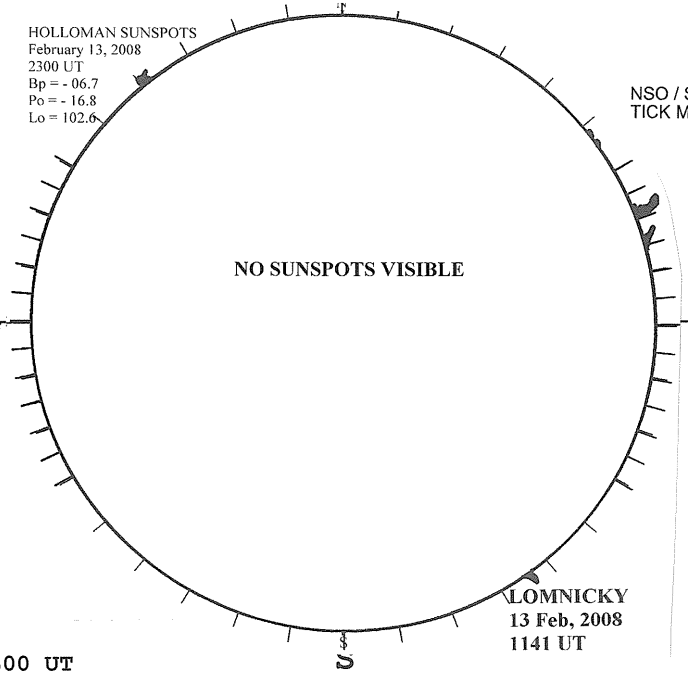
19.14 -
20.11 UT

--- MEUDON H-ALPHA



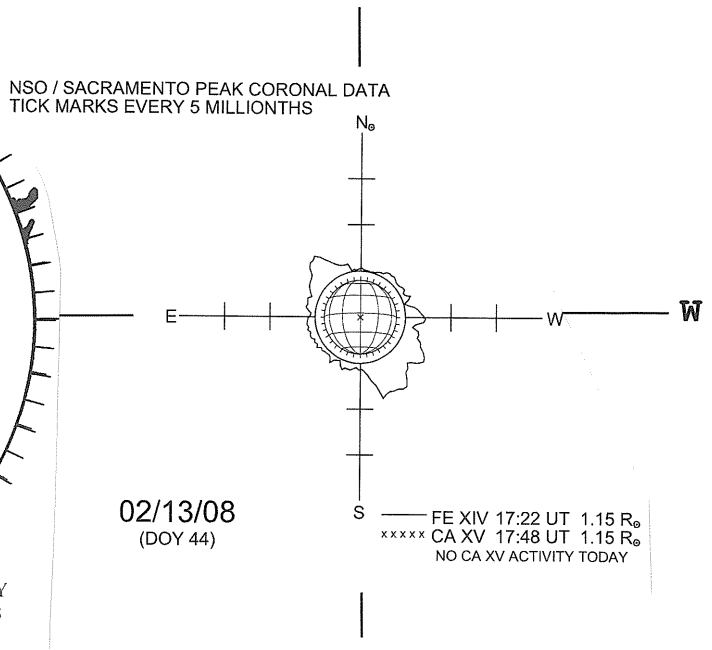
1423 UT

HOLLOMAN SUNSPOTS



2300 UT
1141 UT LOMN PROM

SACRAMENTO PEAK CORONA (1.15 Radii)-----

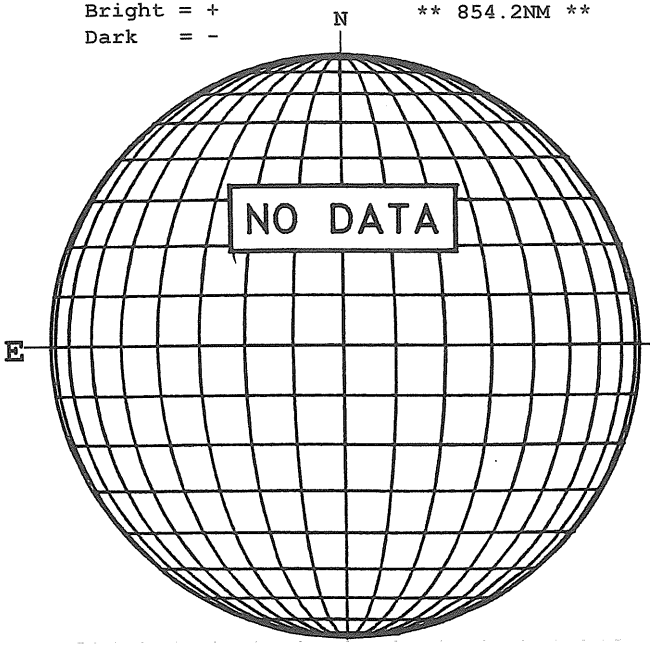


February 14, 2008 (P=-16.84, Bo=-6.76, Lo= 101.79)

KITT PEAK MAGNETOGRAM -- SOLIS

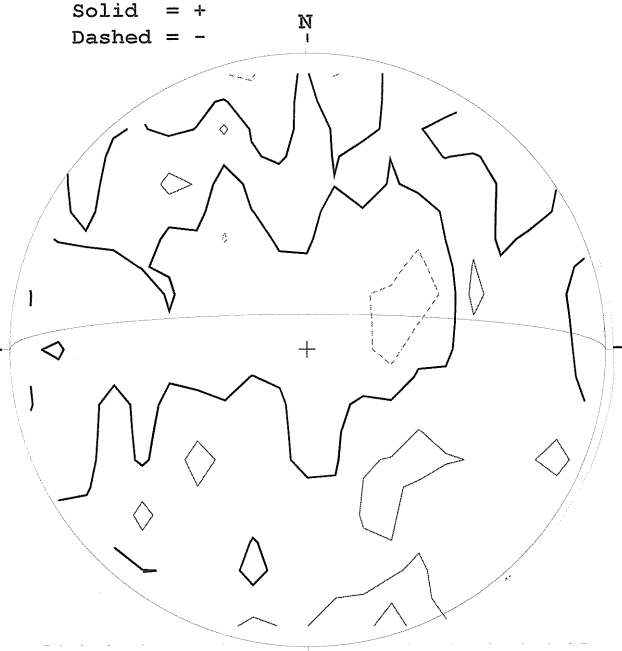
Bright = +
Dark = -

** 854.2NM **



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

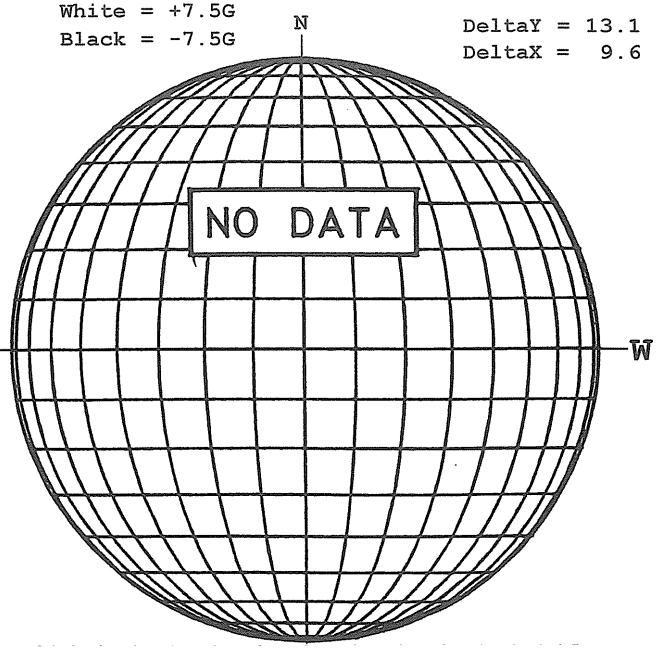


1800 UT

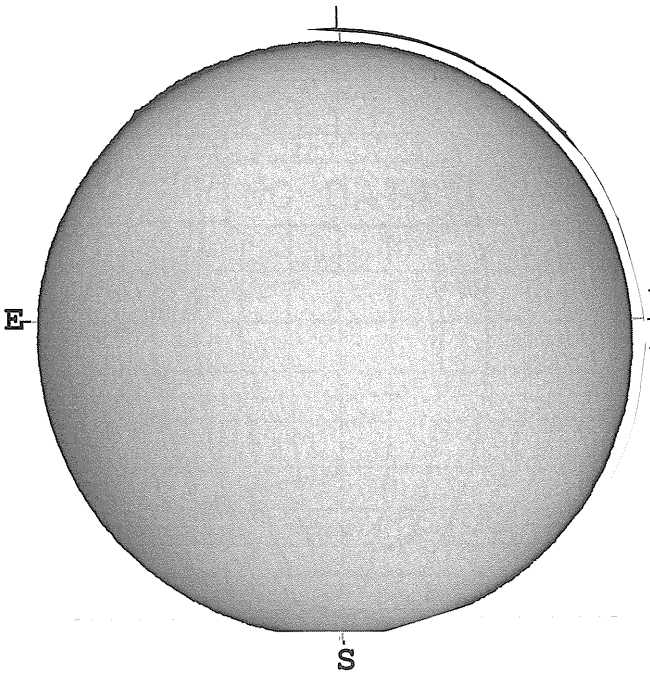
MT. WILSON MAGNETOGRAM

White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6



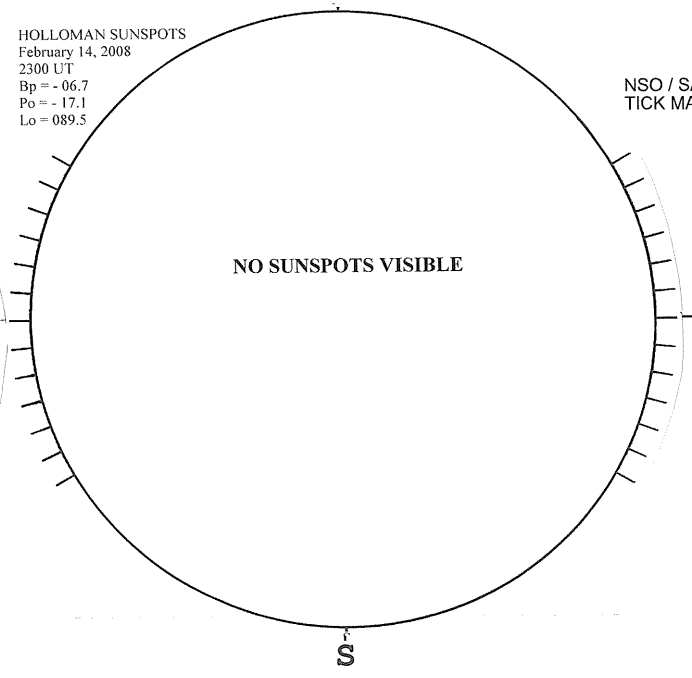
MEUDON H-ALPHA



1439 UT

HOLLOMAN SUNSPOTS

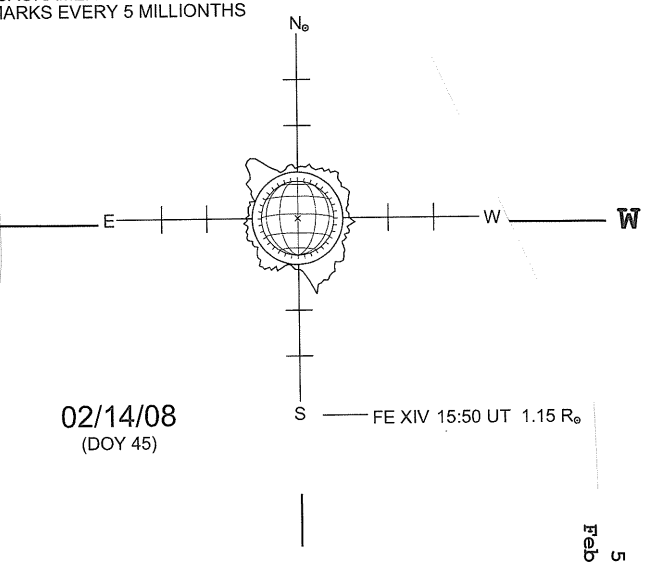
HOLLOMAN SUNSPOTS
February 14, 2008
2300 UT
Bp = - 06.7
Po = - 17.1
Lo = 089.5



2300 UT

SACRAMENTO PEAK CORONA (1.15 Radii)-----

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 5 MILLIONTHS



02/14/08
(DOY 45)

FE XIV 15:50 UT 1.15 R⊙

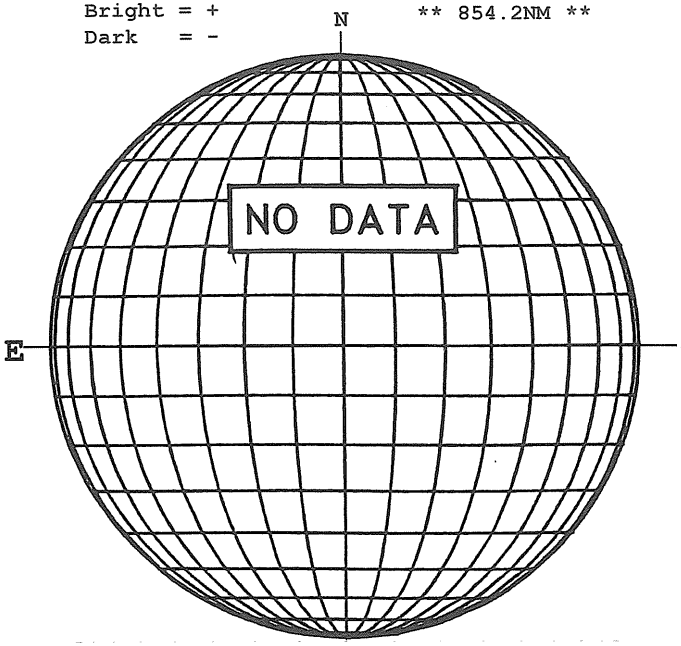
59
Feb 08

February 15, 2008 (P=-17.18, Bo=-6.80, Lo= 88.63)

KITT PEAK MAGNETOGRAM -- SOLIS

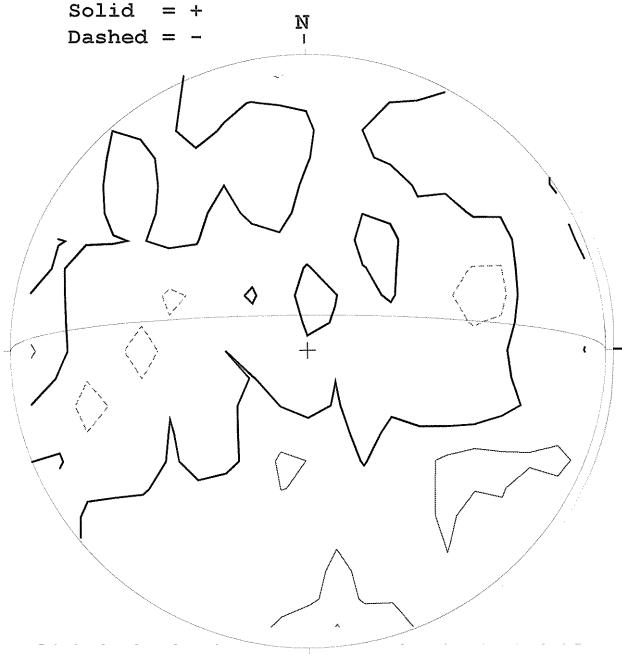
Bright = +
Dark = -

** 854.2NM **



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

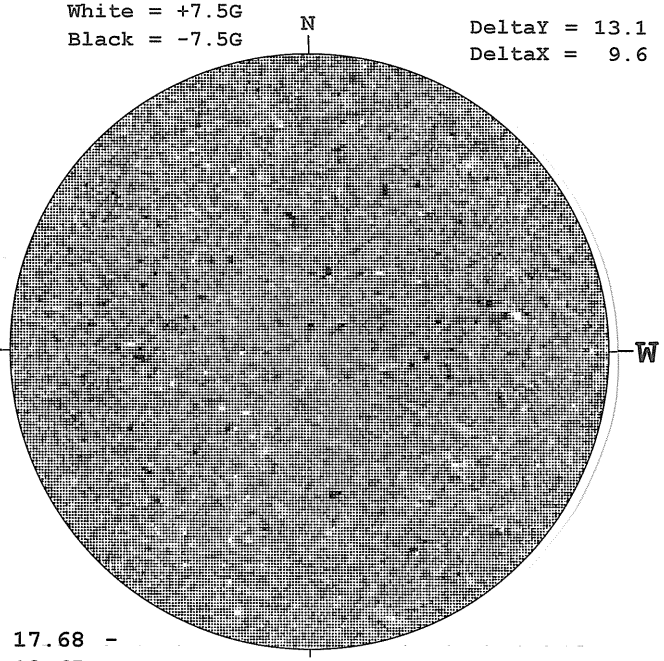


2124 UT

MT. WILSON MAGNETOGRAM

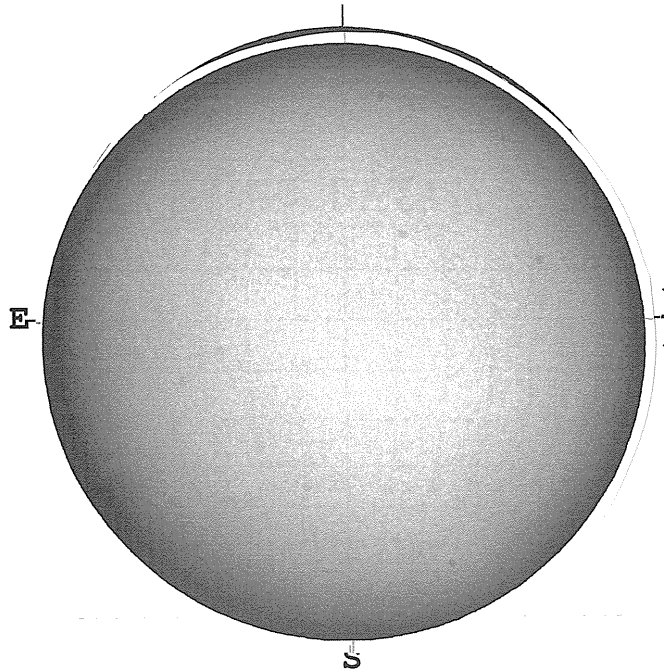
White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6



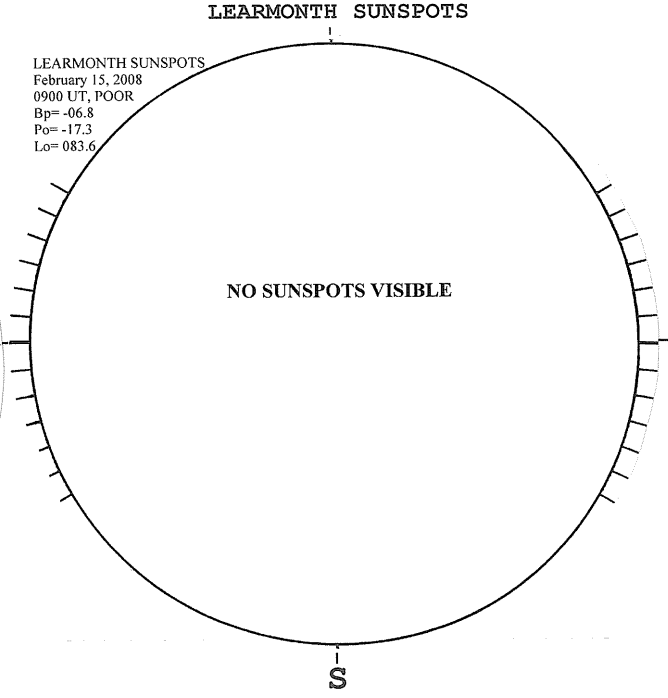
17.68 -
18.65 UT

HUAIROU H-ALPHA



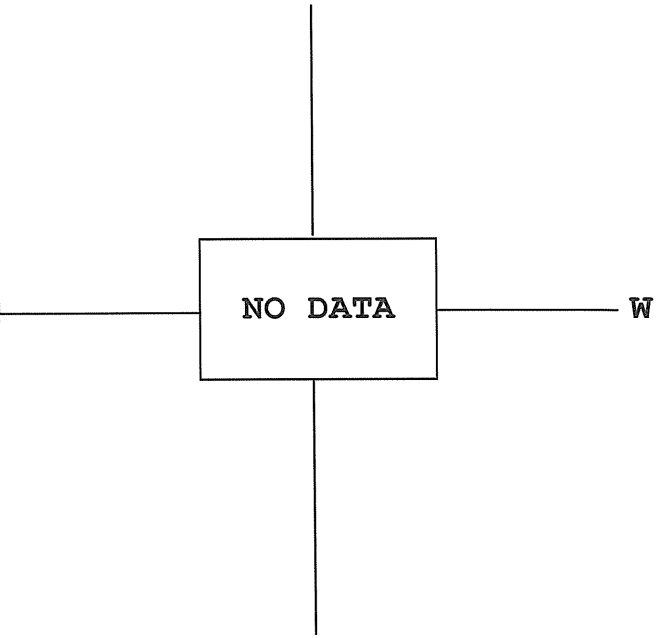
0353 UT

LEARMONTH SUNSPOTS



0900 UT

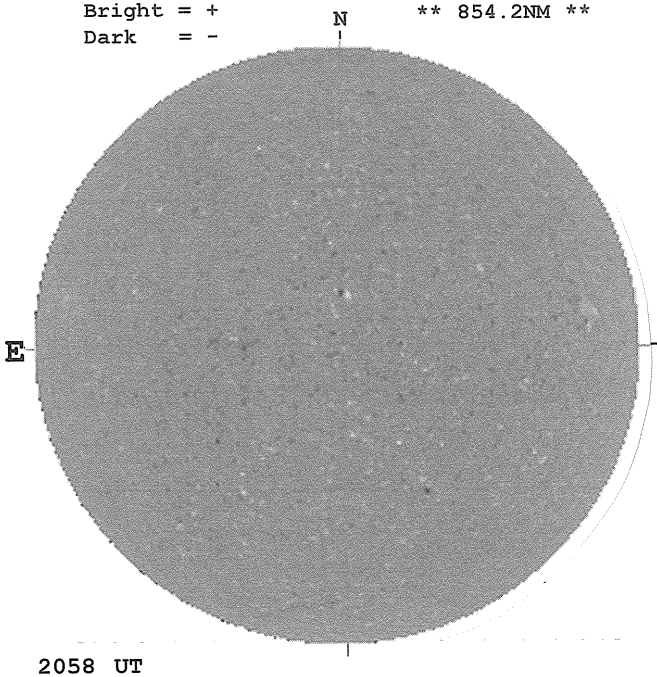
SACRAMENTO PEAK CORONA (1.15 Radii)-----



February 16, 2008 (P=-17.52, Bo=-6.85, Lo= 75.46)

KITT PEAK MAGNETOGRAM -- SOLIS

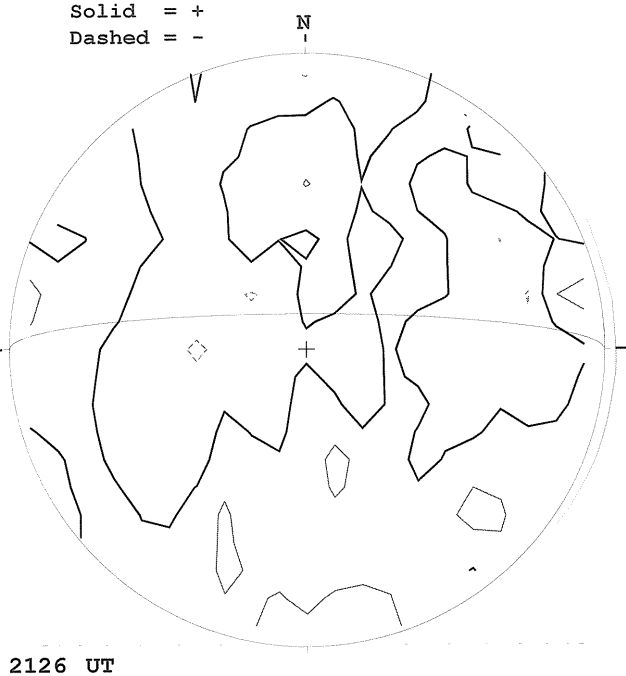
Bright = +
Dark = -



2058 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

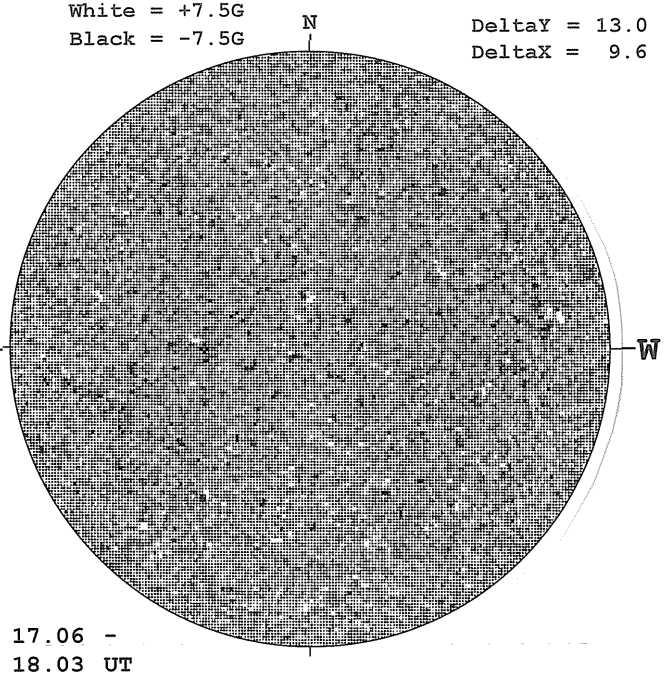


2126 UT

MT. WILSON MAGNETOGRAM

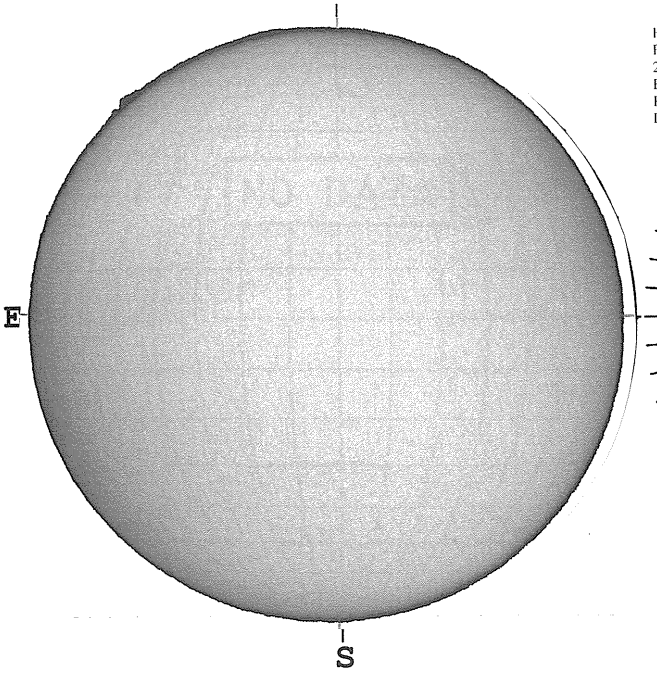
White = +7.5G
Black = -7.5G

DeltaY = 13.0
DeltaX = 9.6



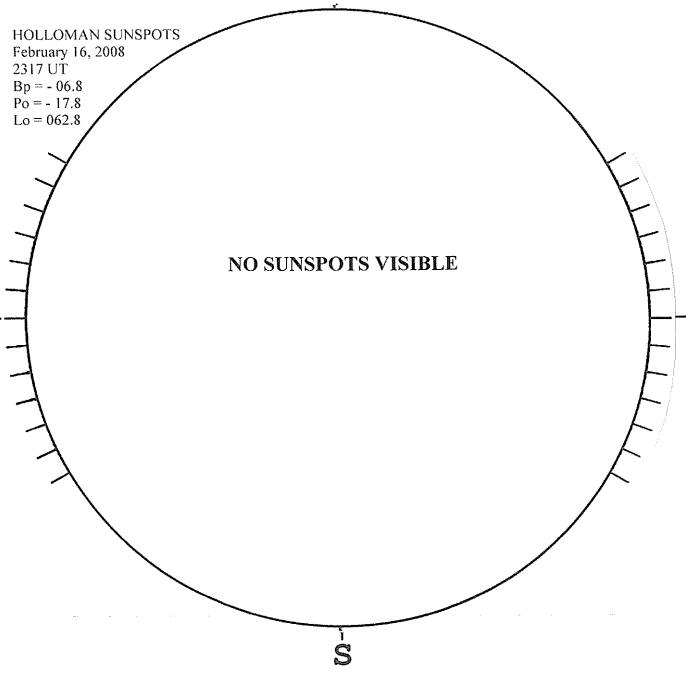
17.06 -
18.03 UT

MEUDON H-ALPHA



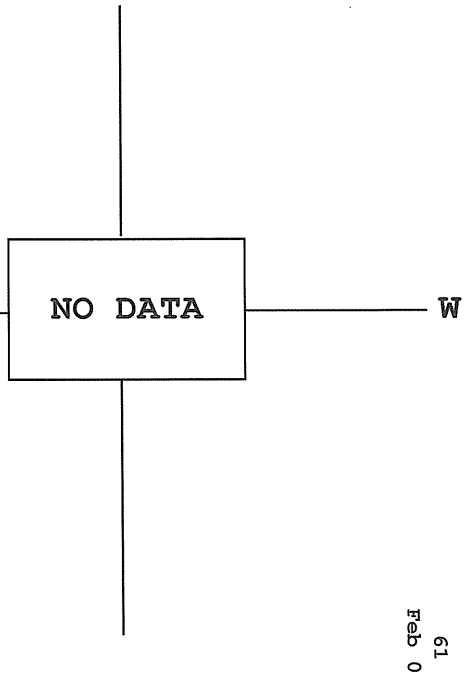
1501 UT

HOLLOMAN SUNSPOTS



2317 UT

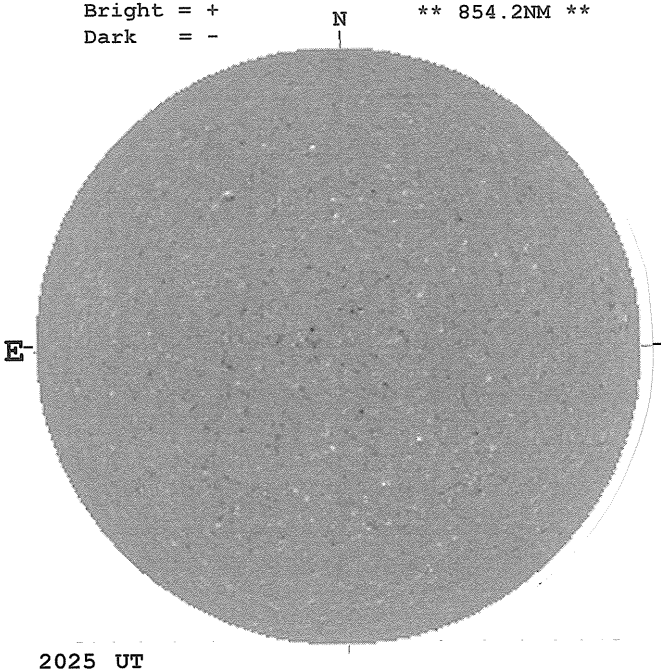
SACRAMENTO PEAK CORONA (1.15 Radii)-----



61
Feb 08

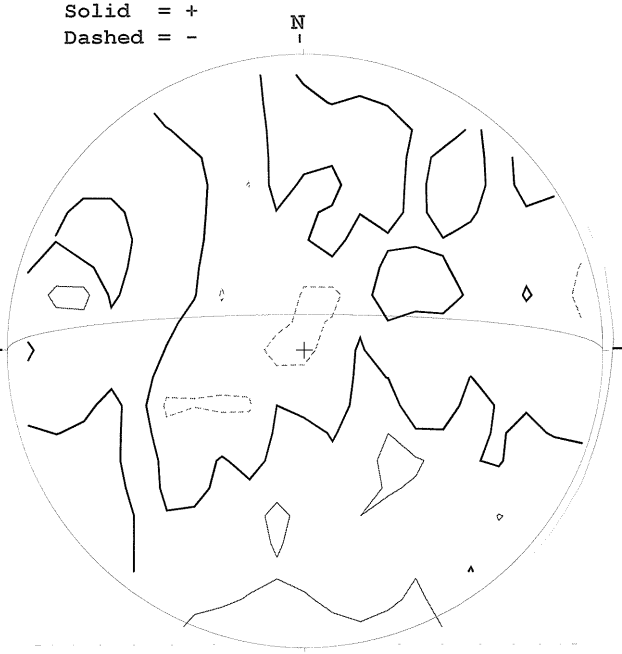
February 17, 2008 (P=-17.85, Bo=-6.89, Lo= 62.29)

KITT PEAK MAGNETOGRAM -- SOLIS
Bright = +
Dark = -
** 854.2NM **



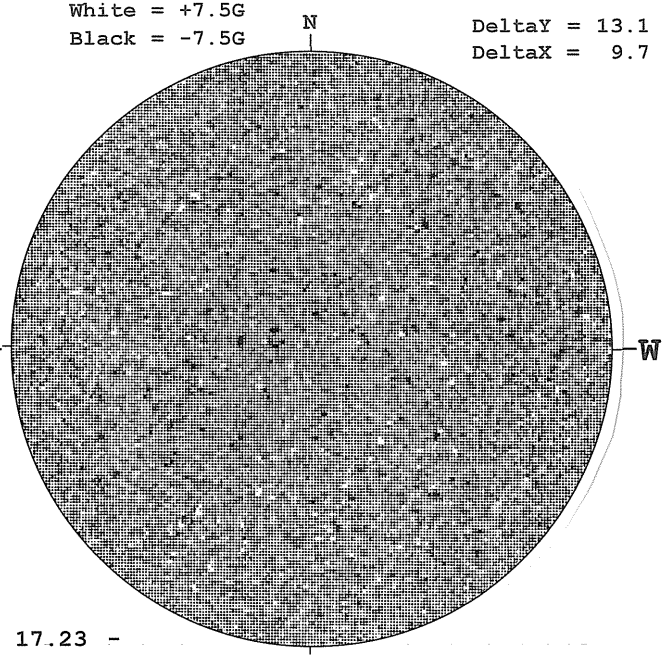
2025 UT

STANFORD MAGNETOGRAM
Solid = +
Dashed = -



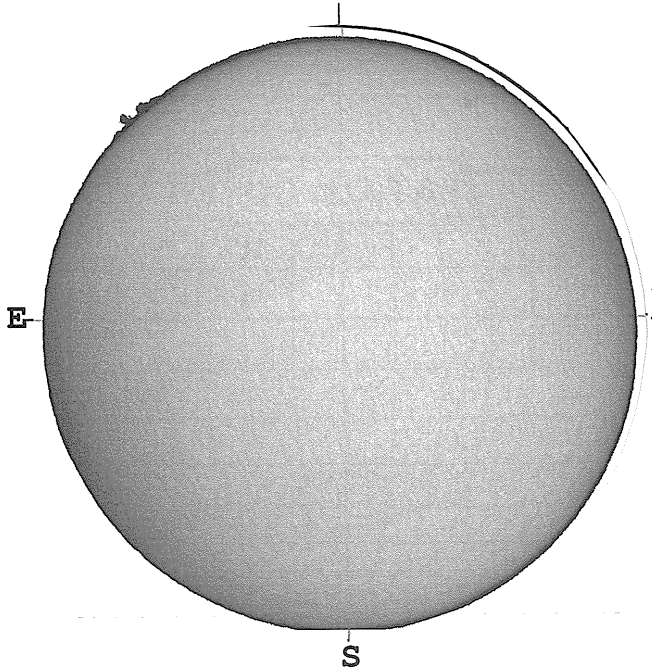
2235 UT

MT. WILSON MAGNETOGRAM
White = +7.5G
Black = -7.5G
DeltaY = 13.1
DeltaX = 9.7



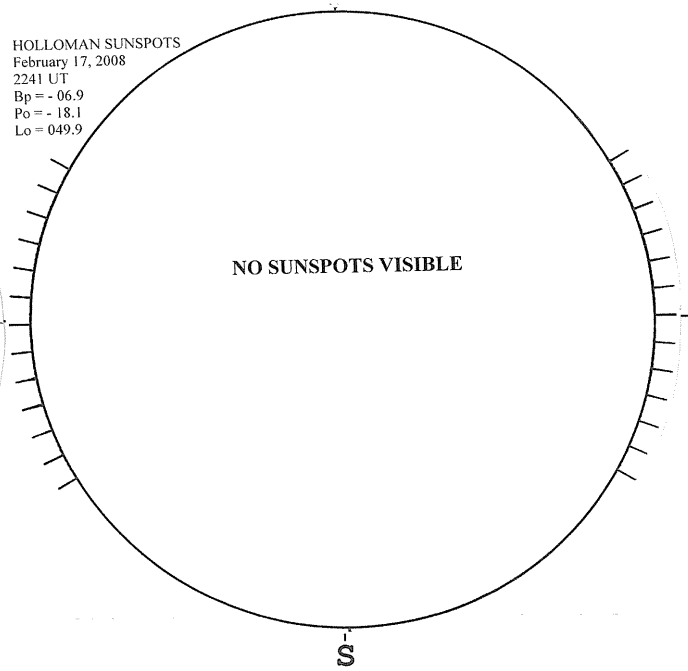
17.23 -
18.20 UT

MEUDON H-ALPHA



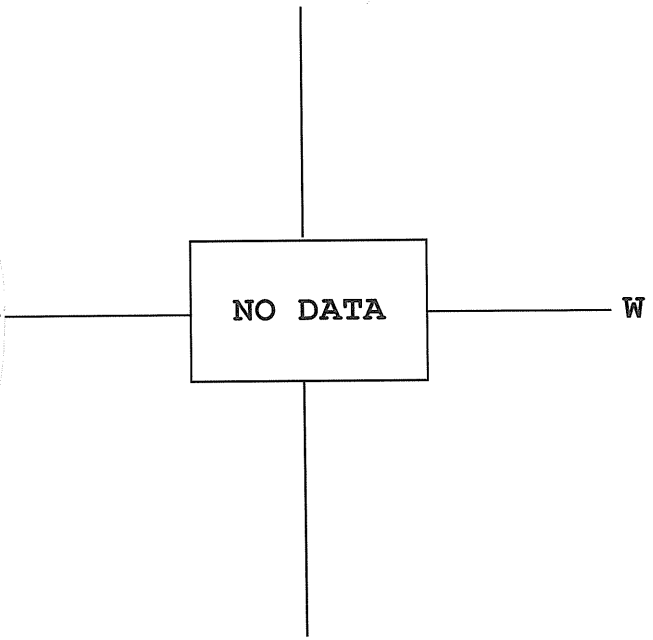
1453 UT

HOLLOMAN SUNSPOTS



2241 UT

SACRAMENTO PEAK CORONA (1.15 Radii)-----

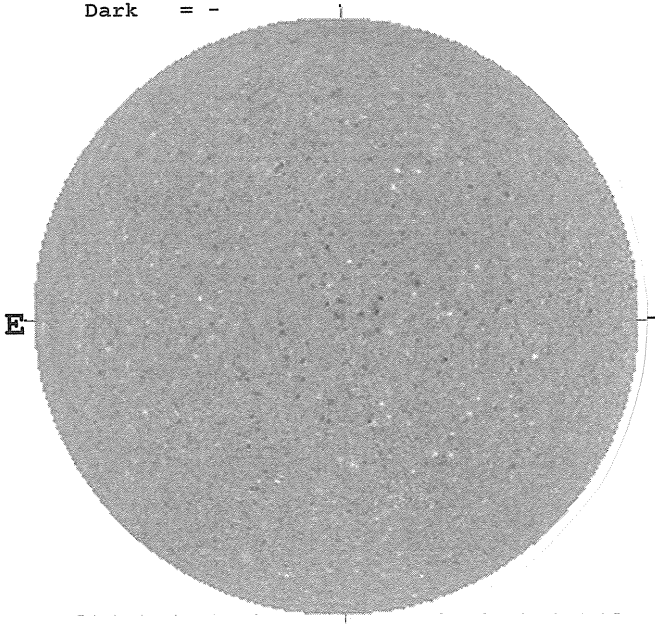


February 18, 2008 (P=-18.18, Bo=-6.93, Lo= 49.12)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

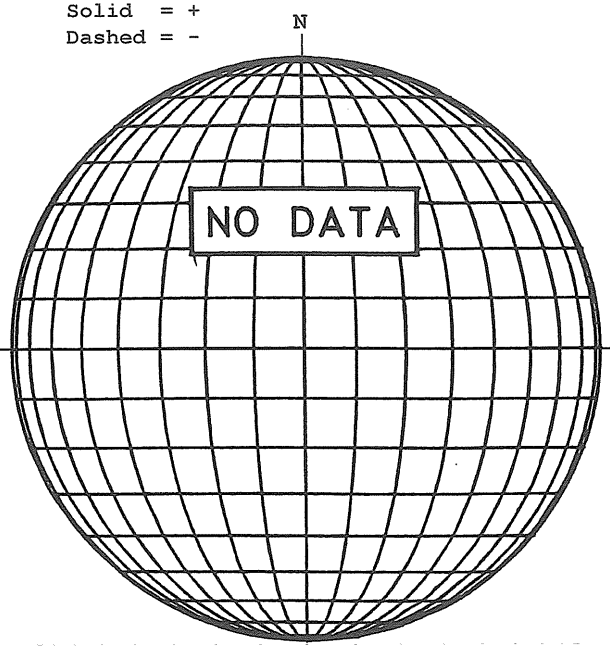
** 854.2NM **



1805 UT

STANFORD MAGNETOGRAM

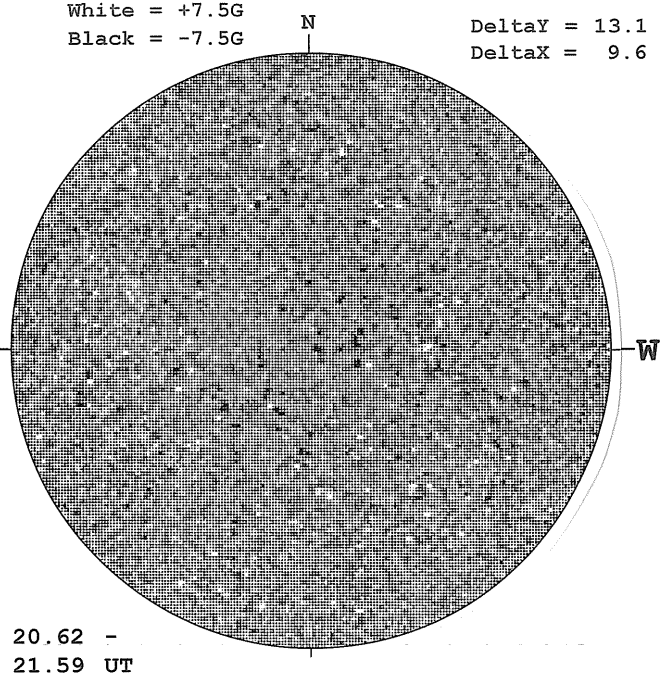
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

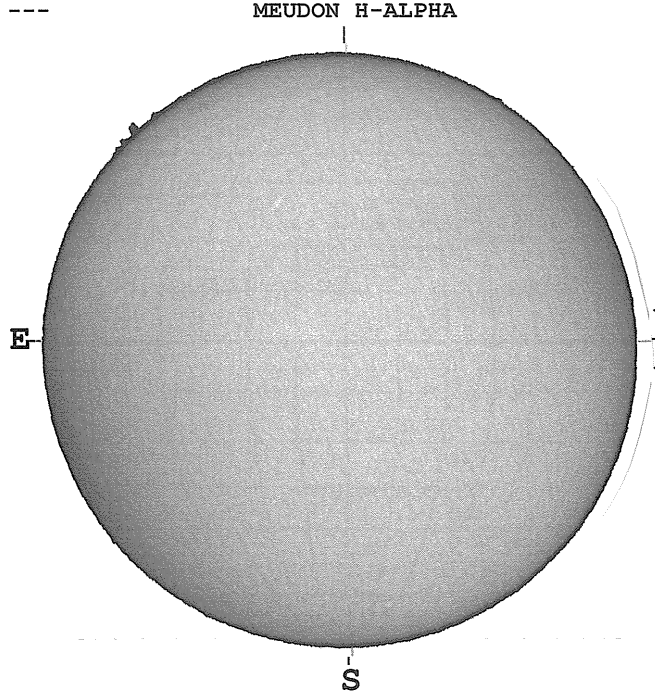
White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6



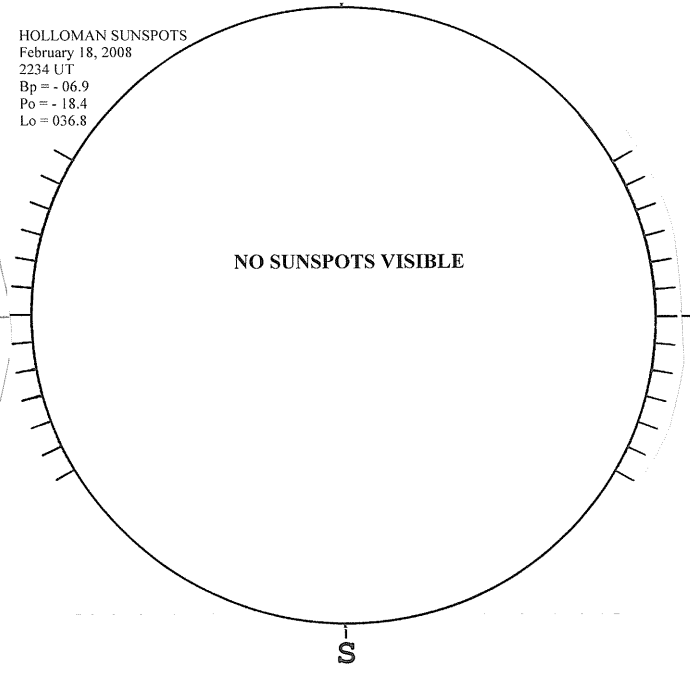
20.62 -
21.59 UT

--- MEUDON H-ALPHA



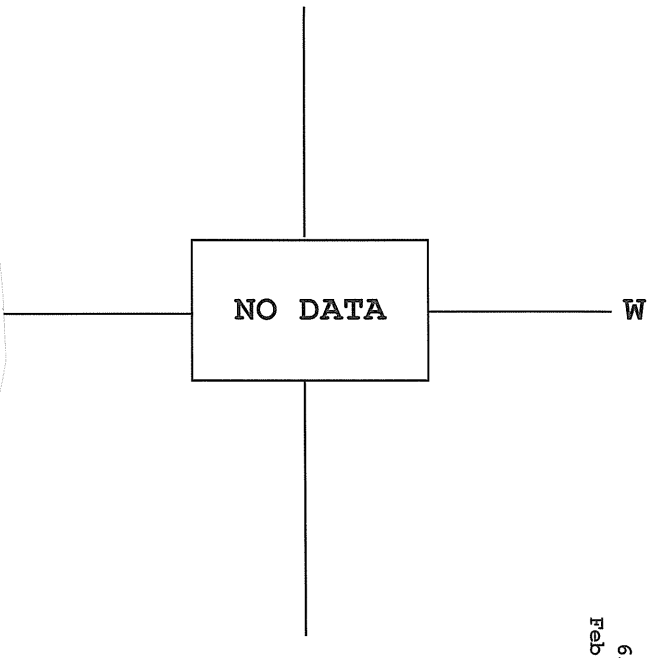
1500 UT

HOLLOMAN SUNSPOTS



2234 UT

SACRAMENTO PEAK CORONA (1.15 Radii)-----



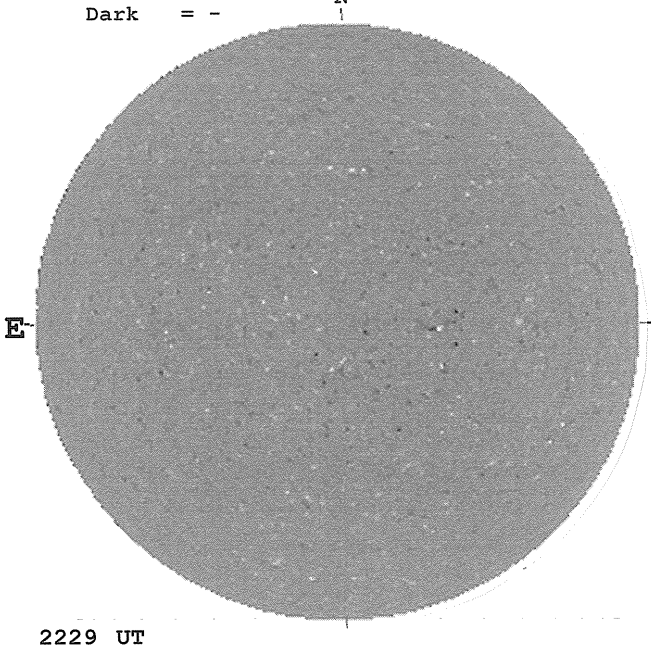
63
Feb 08

February 19, 2008 (P=-18.50, Bo=-6.96, Lo= 35.95)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

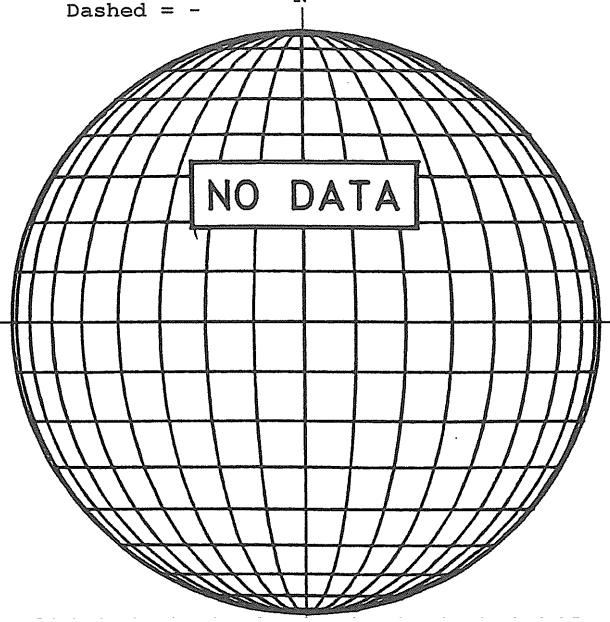
** 854.2NM **



2229 UT

STANFORD MAGNETOGRAM

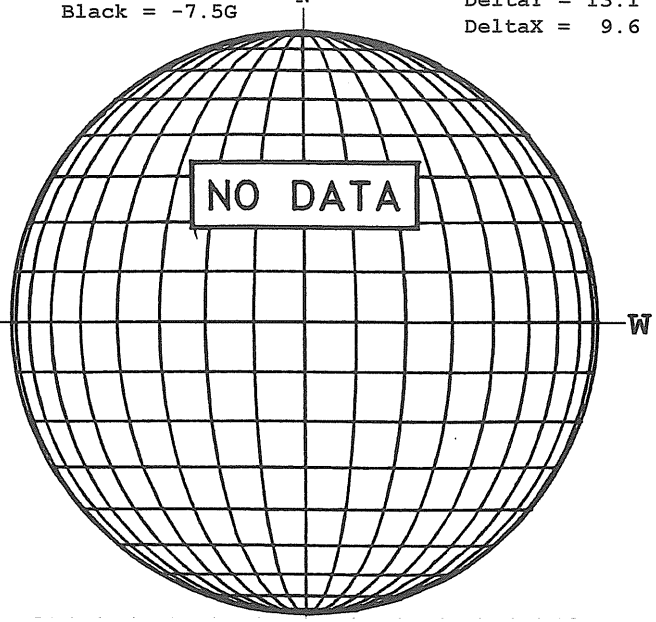
Solid = +
Dashed = -



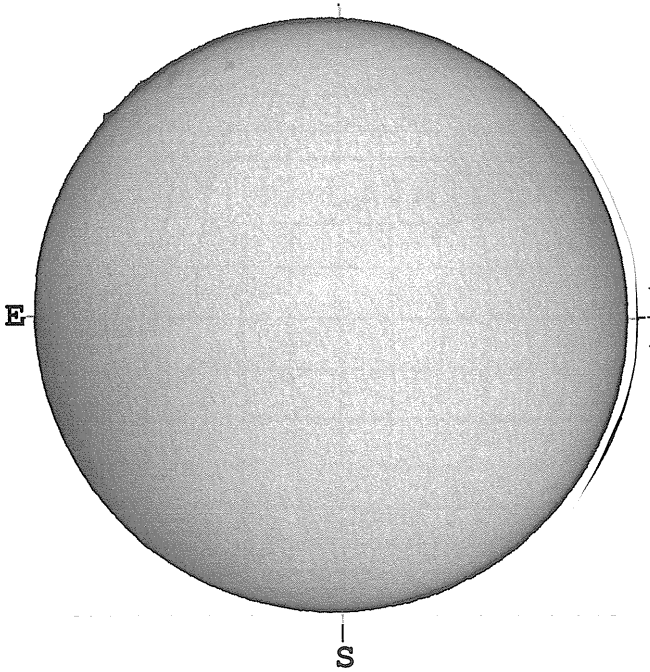
MT. WILSON MAGNETOGRAM

White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6

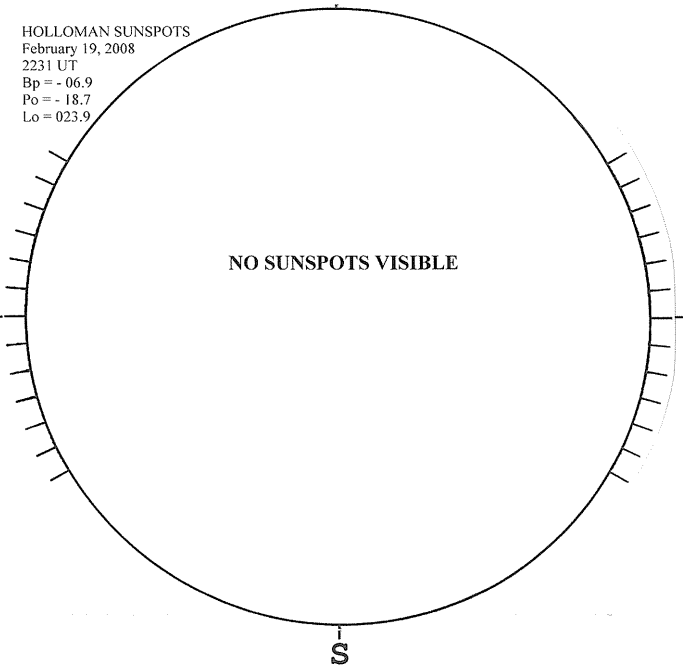


MEUDON H-ALPHA



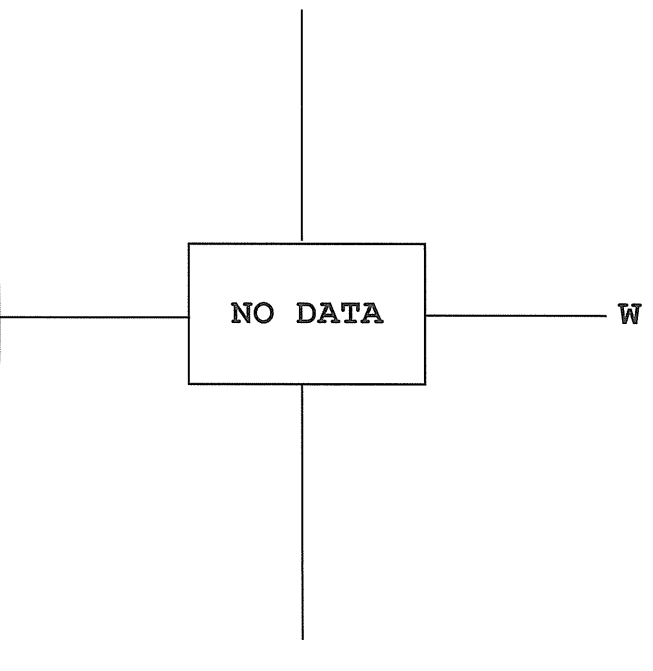
1505 UT

HOLLOMAN SUNSPOTS



2231 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

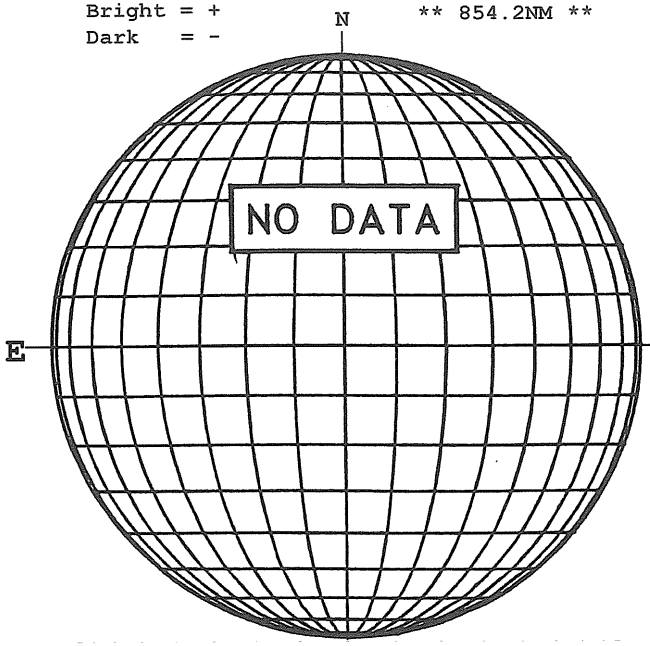


February 20, 2008 (P=-18.81, Bo=-7.00, Lo= 22.78)

KITT PEAK MAGNETOGRAM -- SOLIS

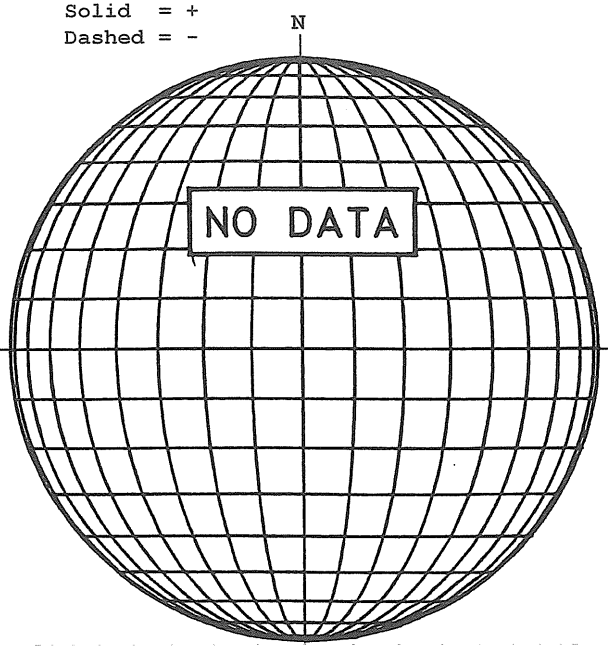
Bright = +
Dark = -

** 854.2NM **



STANFORD MAGNETOGRAM

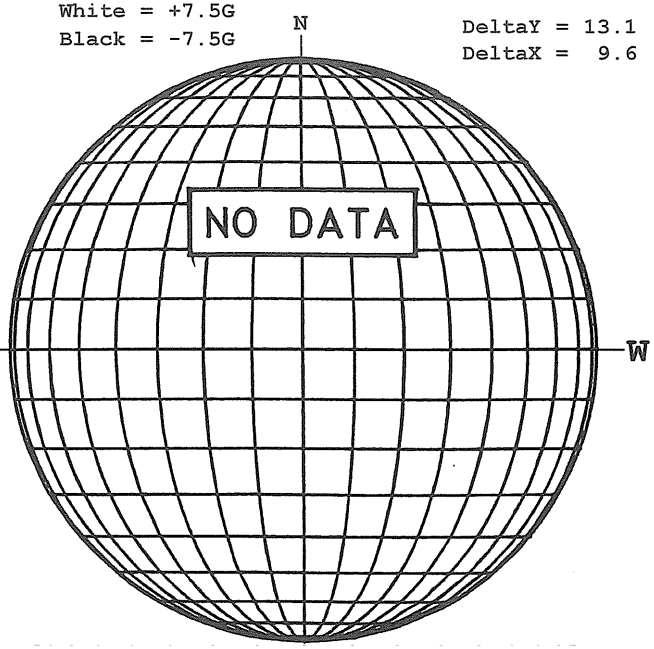
Solid = +
Dashed = -



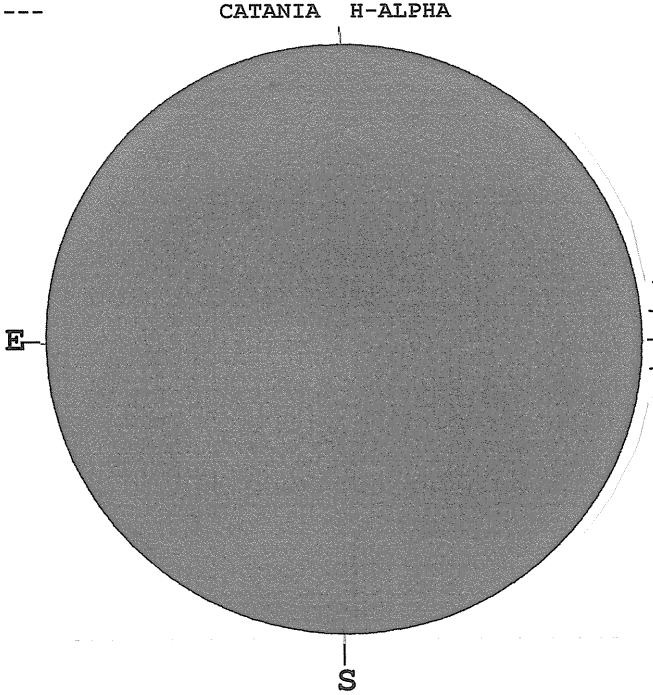
MT. WILSON MAGNETOGRAM

White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6

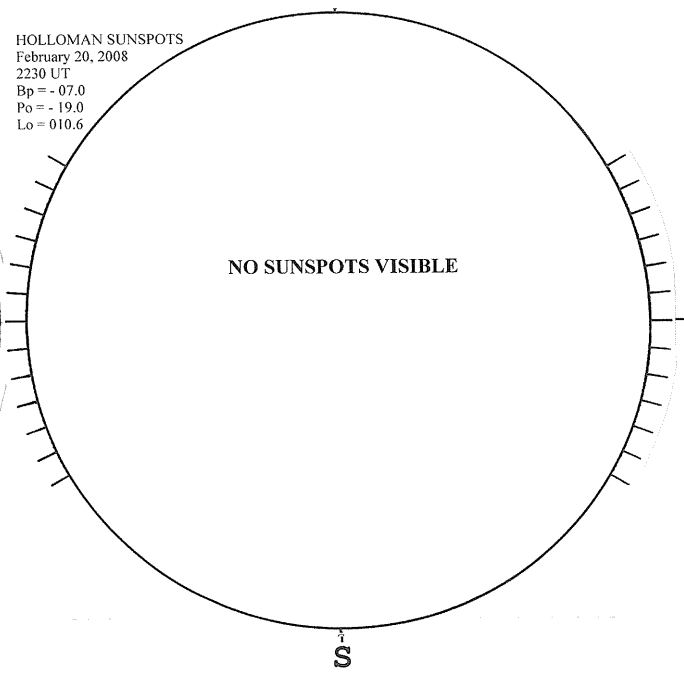


--- CATANIA H-ALPHA



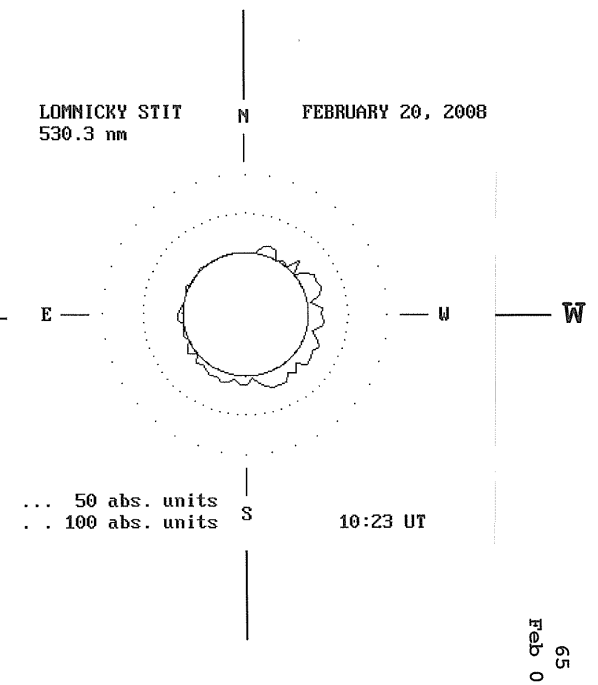
0808 UT

HOLLOMAN SUNSPOTS



2230 UT

LOMNICKY PEAK CORONA (1.04 Radii)------



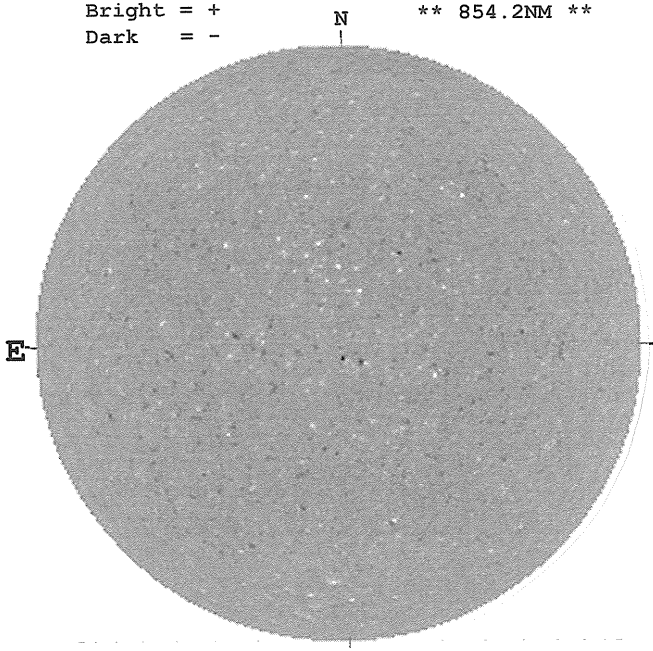
65
Feb 08

February 21, 2008 (P=-19.12, Bo=-7.03, Lo= 9.61)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

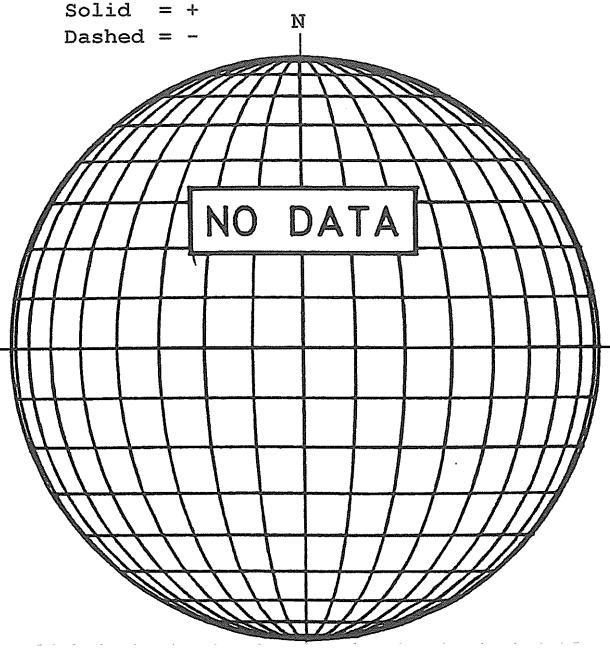
** 854.2NM **



1925 UT

STANFORD MAGNETOGRAM

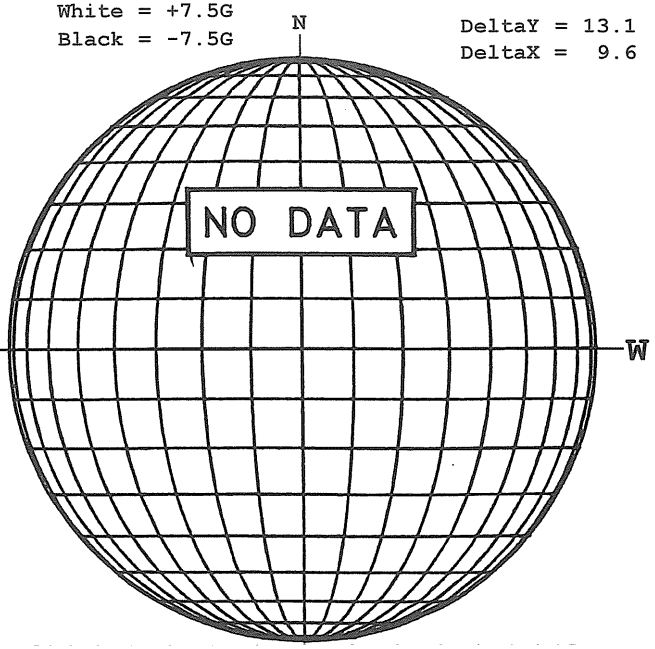
Solid = +
Dashed = -



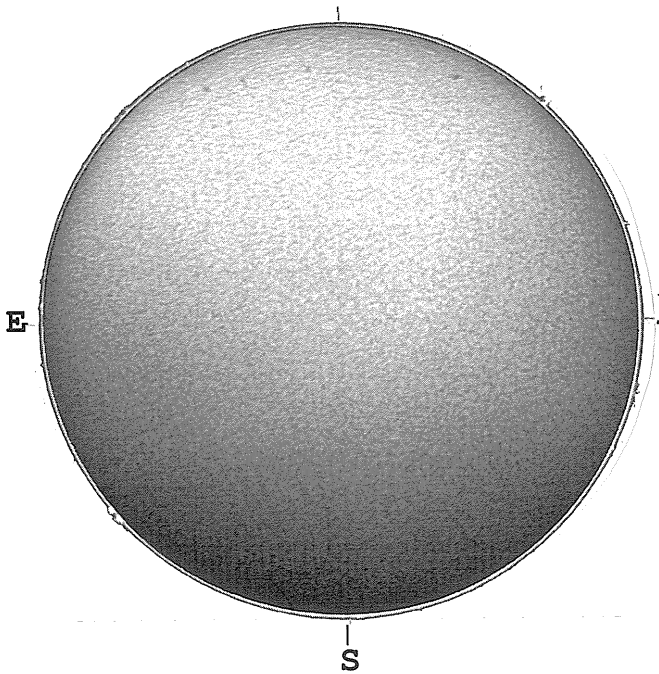
MT. WILSON MAGNETOGRAM

White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6

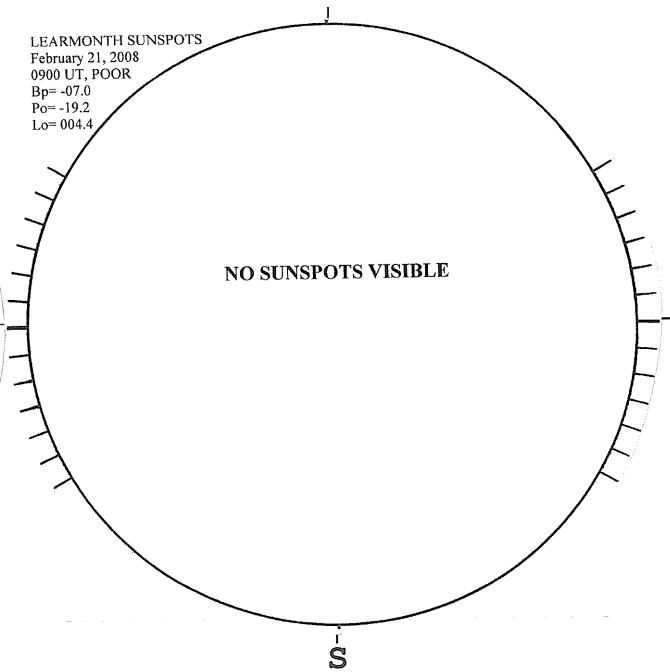


--- PIC DU MIDI H-ALPHA



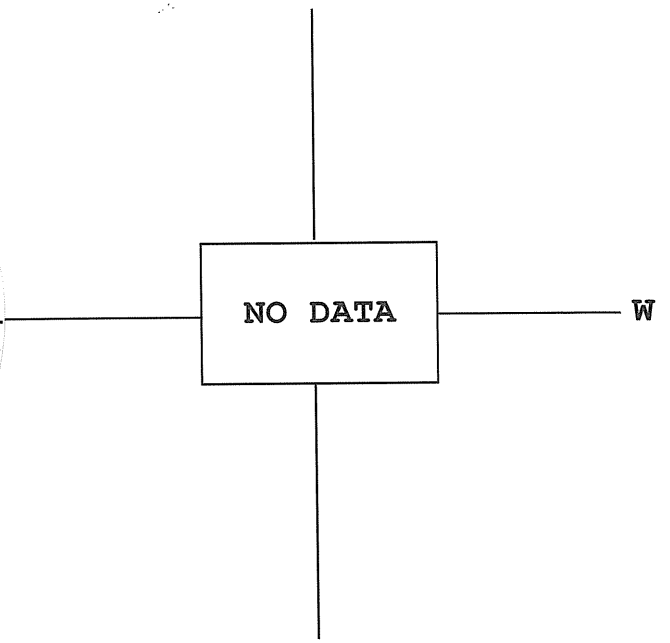
1124 UT

LEARMONTH SUNSPOTS



0900 UT

SACRAMENTO PEAK CORONA (1.15 Radii)-----

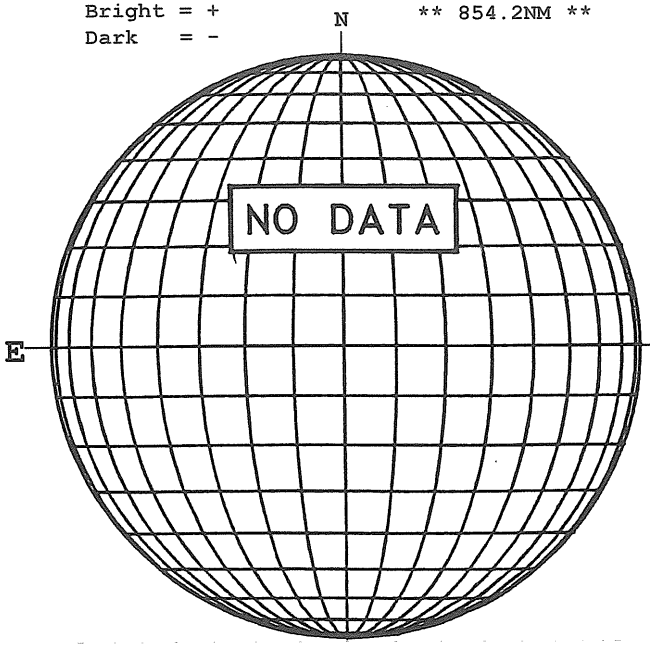


February 22, 2008 (P=-19.42, Bo=-7.06, Lo= 356.44)

KITT PEAK MAGNETOGRAM -- SOLIS

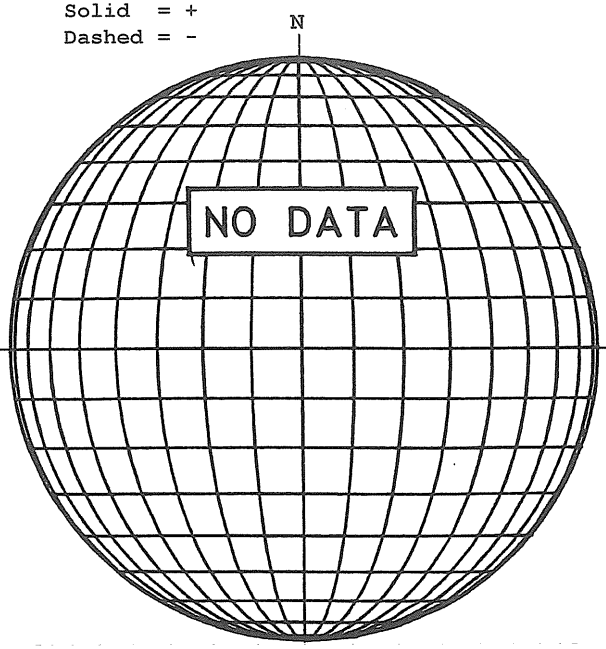
Bright = +
Dark = -

** 854.2NM **



STANFORD MAGNETOGRAM

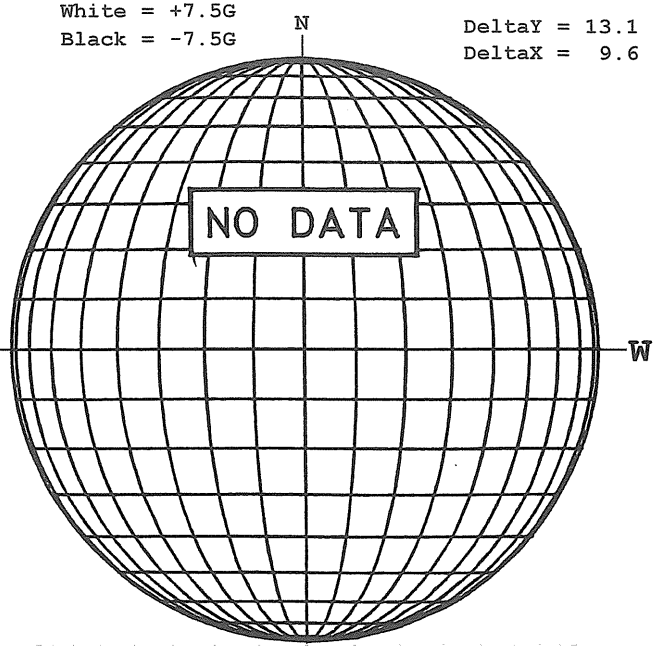
Solid = +
Dashed = -



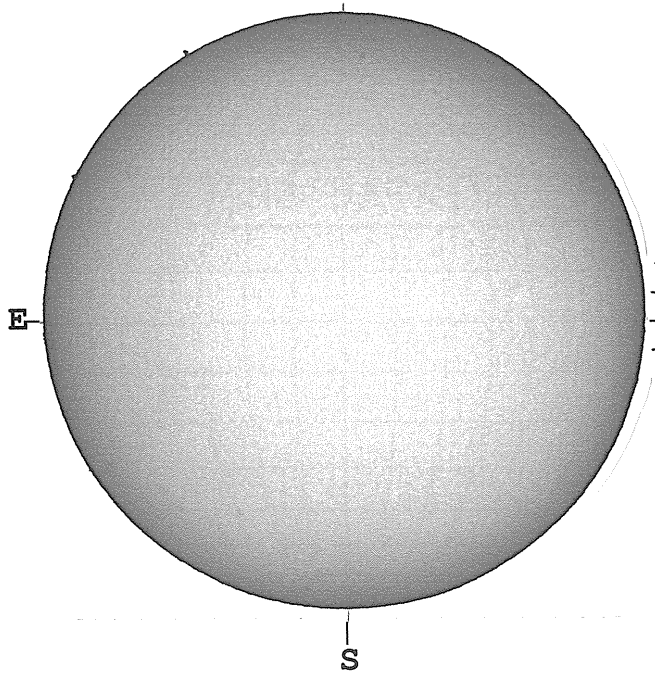
MT. WILSON MAGNETOGRAM

White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6

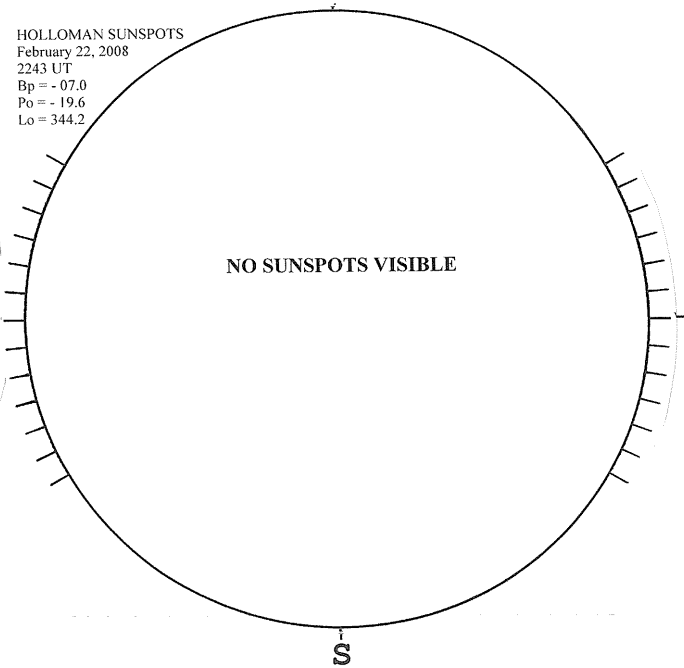


--- YUNNAN H-ALPHA



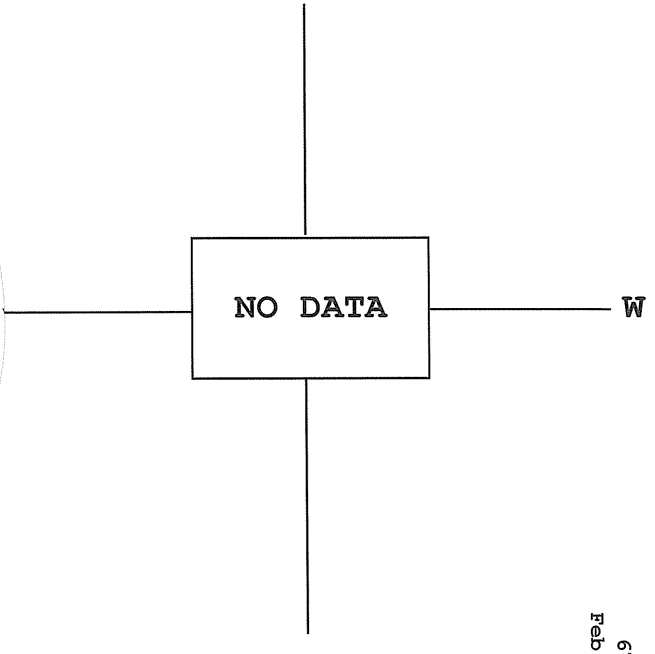
0310 UT

HOLLOMAN SUNSPOTS



2243 UT

SACRAMENTO PEAK CORONA (1.15 Radii)-----



67
Feb 08

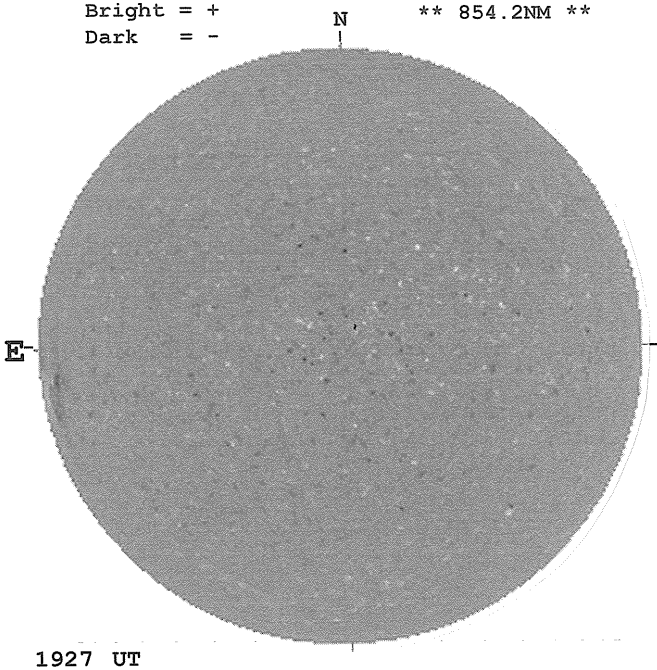
February 23, 2008 (P=-19.72, Bo=-7.09, Lo= 343.27)

Feb 08

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

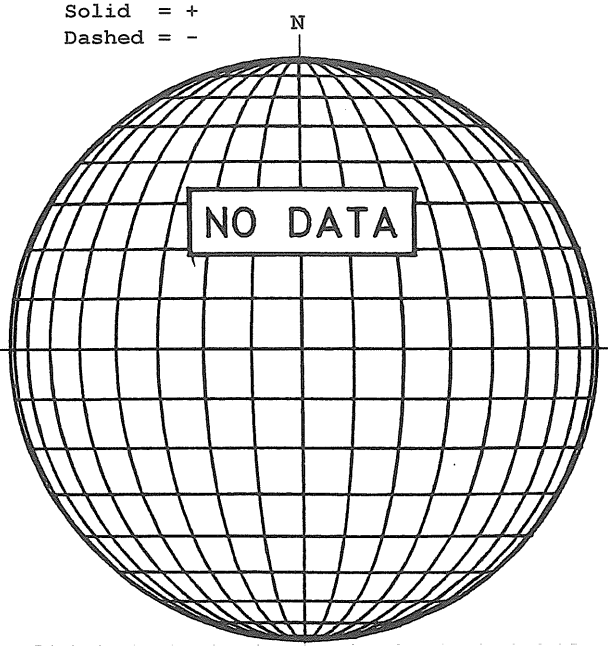
** 854.2NM **



1927 UT

STANFORD MAGNETOGRAM

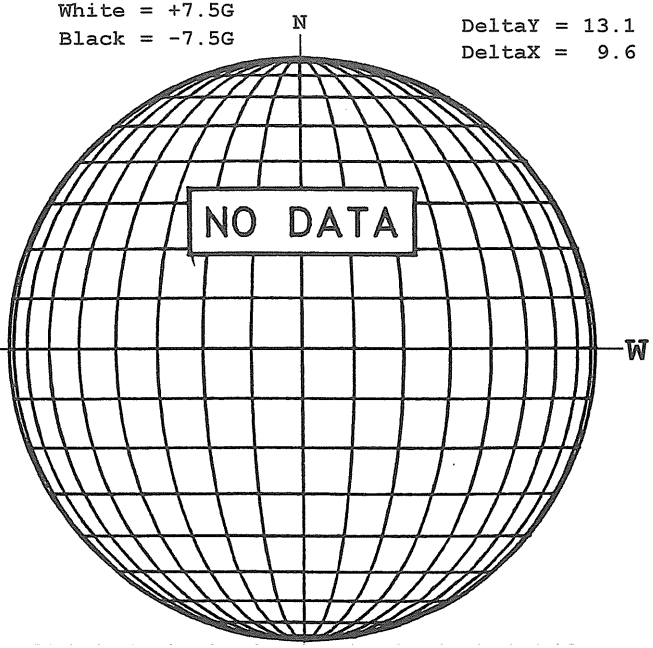
Solid = +
Dashed = -



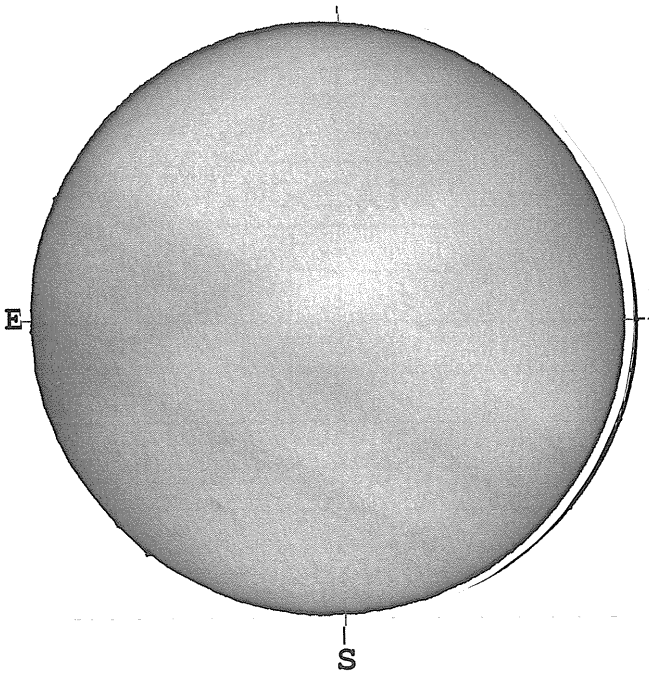
MT. WILSON MAGNETOGRAM

White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6

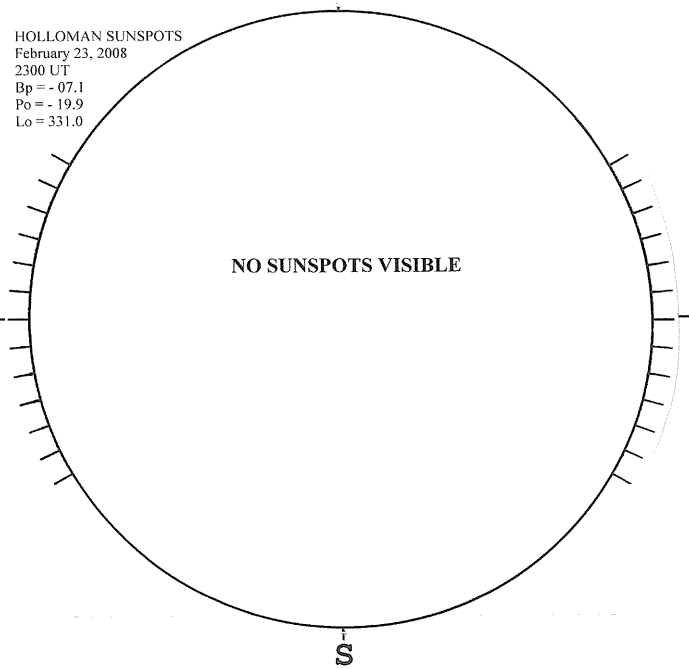


MEUDON H-ALPHA



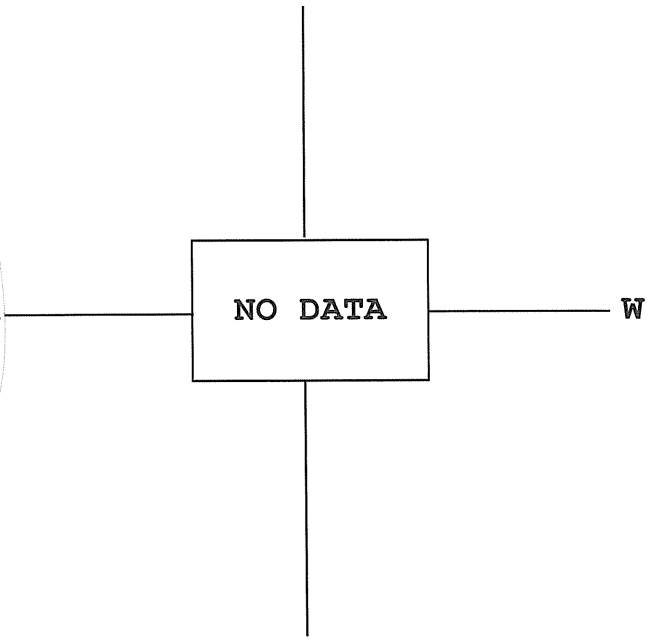
1508 UT

HOLLOMAN SUNSPOTS



2300 UT

SACRAMENTO PEAK CORONA (1.15 Radii)-----

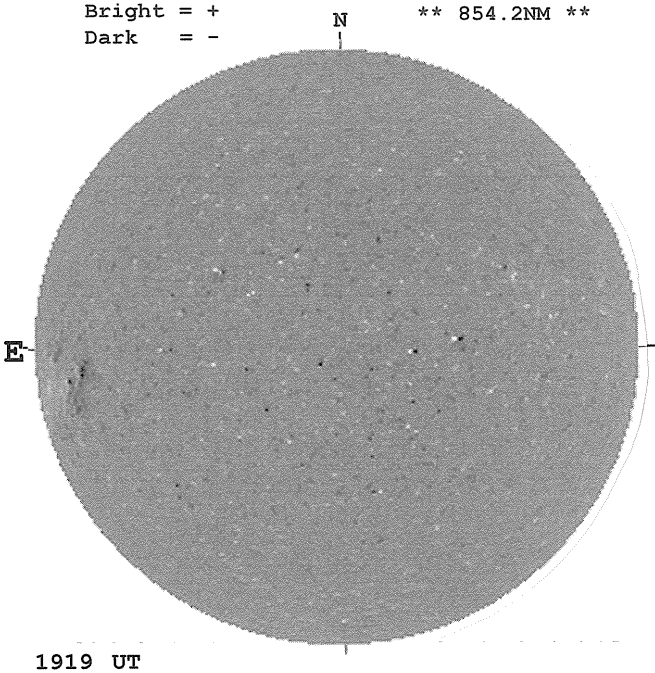


February 24, 2008 (P=-20.01, Bo=-7.11, Lo= 330.10)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

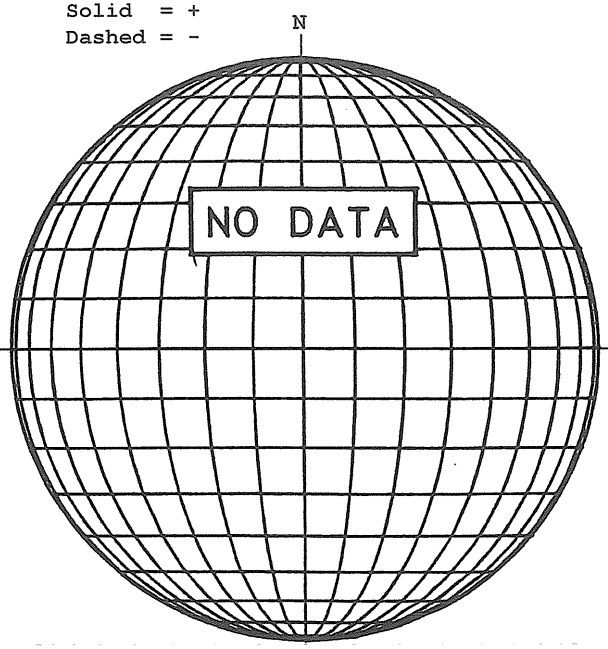
** 854.2NM **



1919 UT

STANFORD MAGNETOGRAM

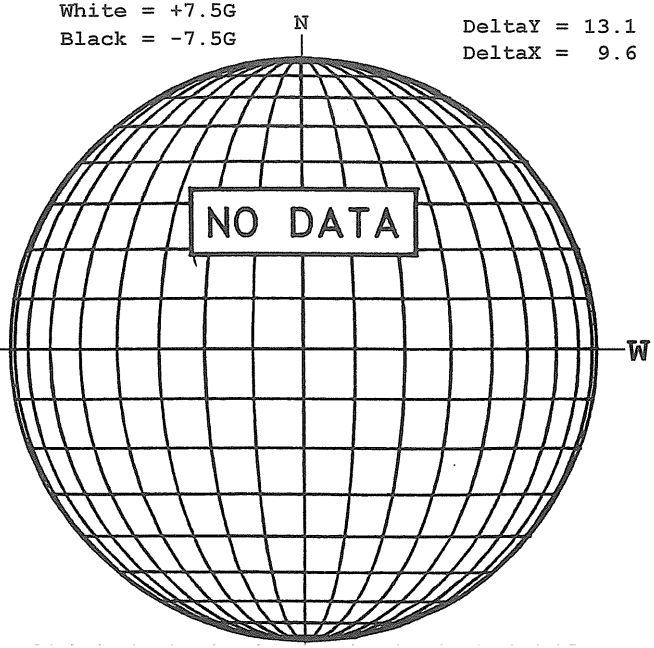
Solid = +
Dashed = -



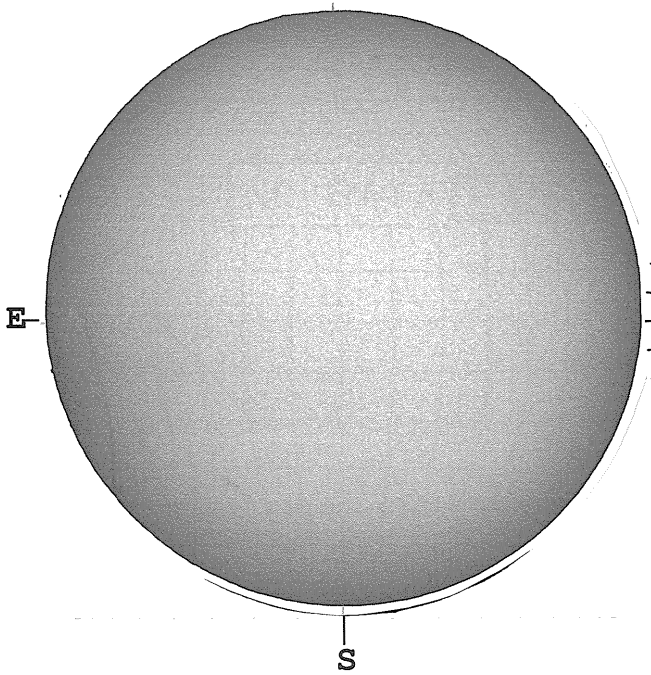
MT. WILSON MAGNETOGRAM

White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6

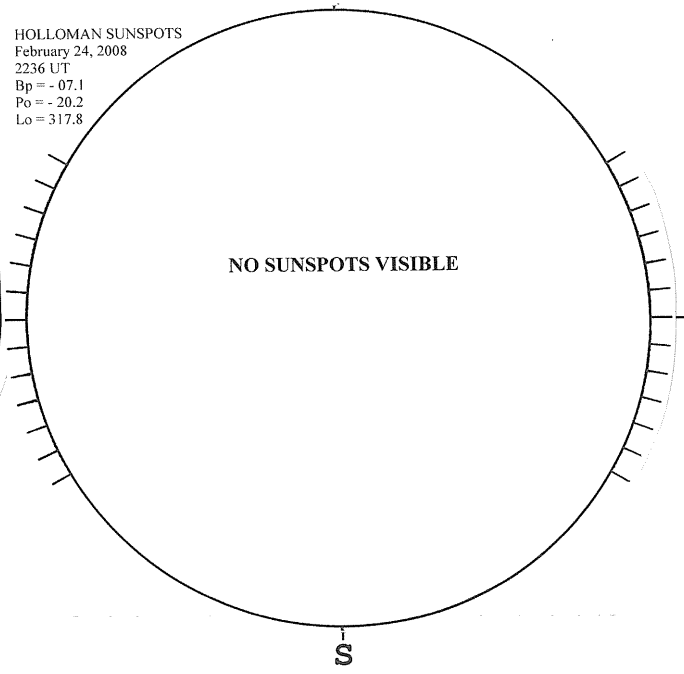


YUNNAN H-ALPHA



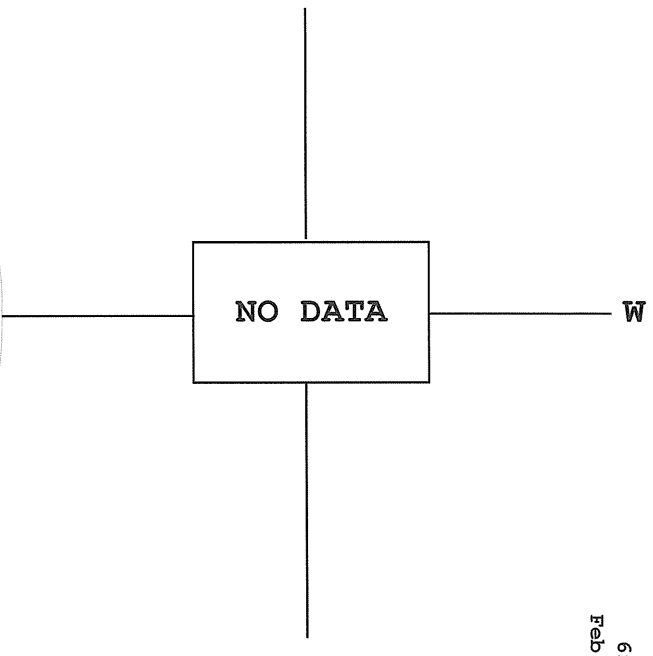
0213 UT

HOLLOMAN SUNSPOTS



2236 UT

SACRAMENTO PEAK CORONA (1.15 Radii)-----

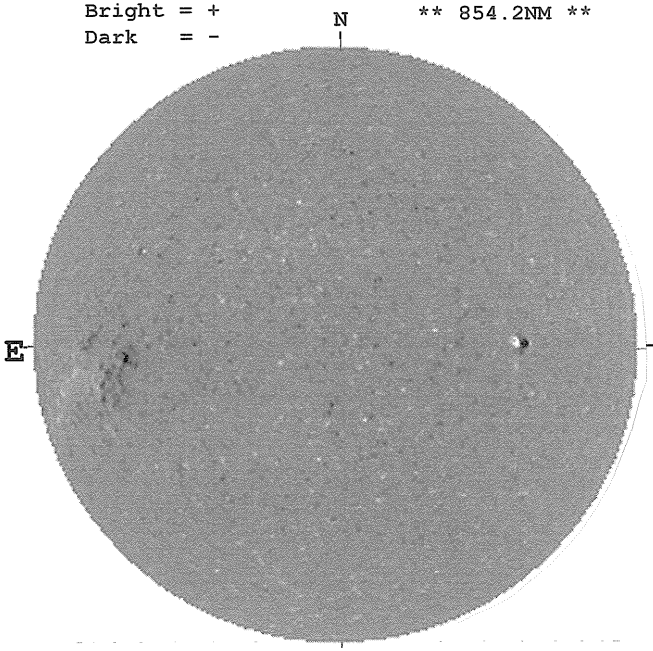


69
Feb 08

February 25, 2008 (P=-20.29, Bo=-7.14, Lo= 316.93)

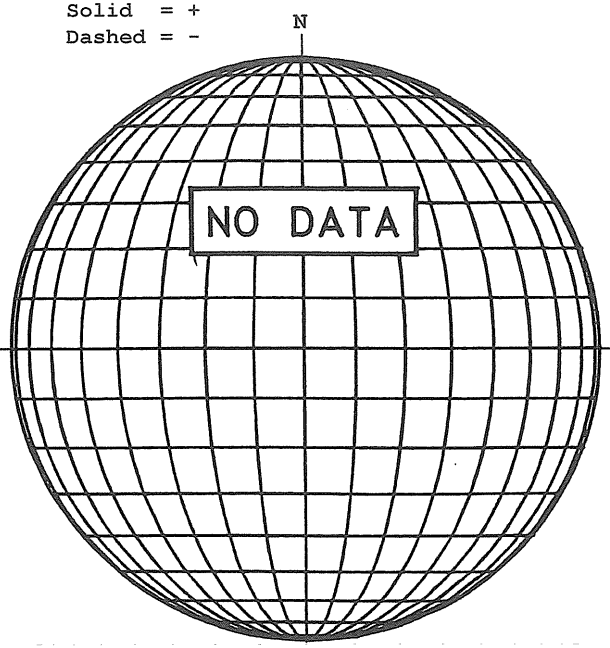
Feb 08 70

KITT PEAK MAGNETOGRAM -- SOLIS
Bright = +
Dark = -
** 854.2NM **

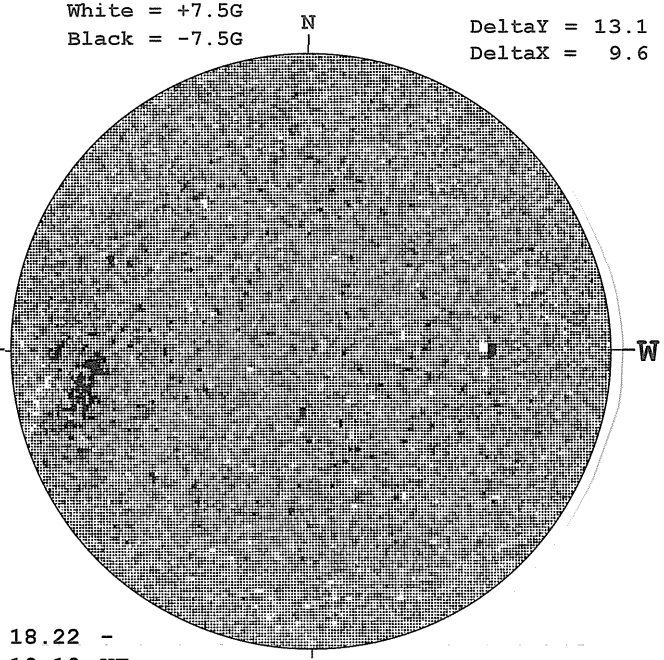


1936 UT

STANFORD MAGNETOGRAM
Solid = +
Dashed = -

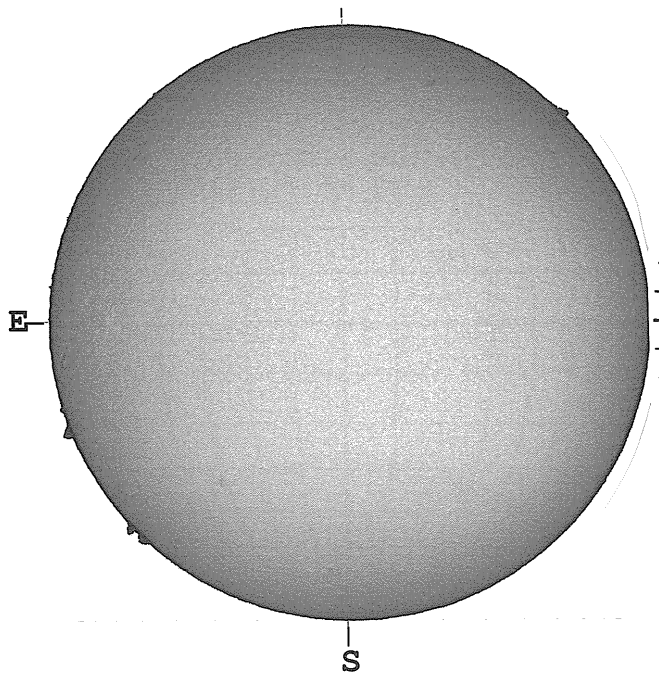


MT. WILSON MAGNETOGRAM
White = +7.5G
Black = -7.5G
DeltaY = 13.1
DeltaX = 9.6



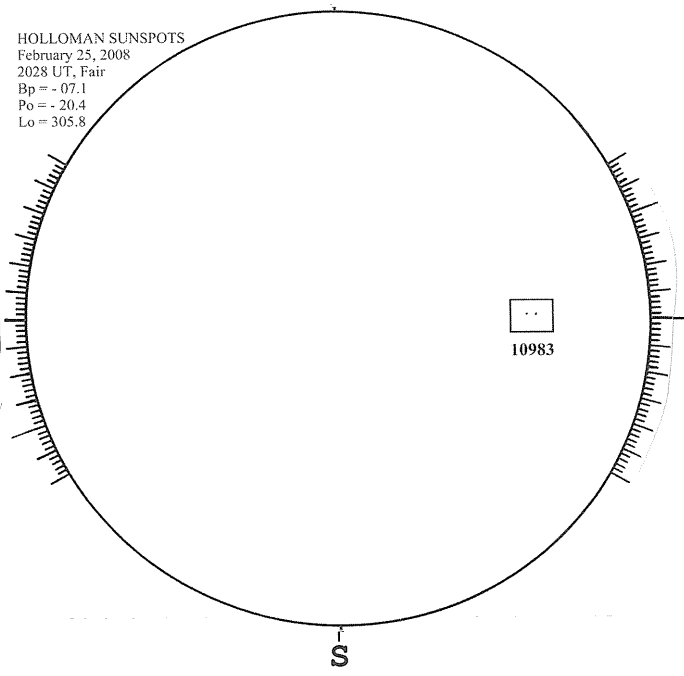
18.22 -
19.19 UT

--- YUNNAN H-ALPHA



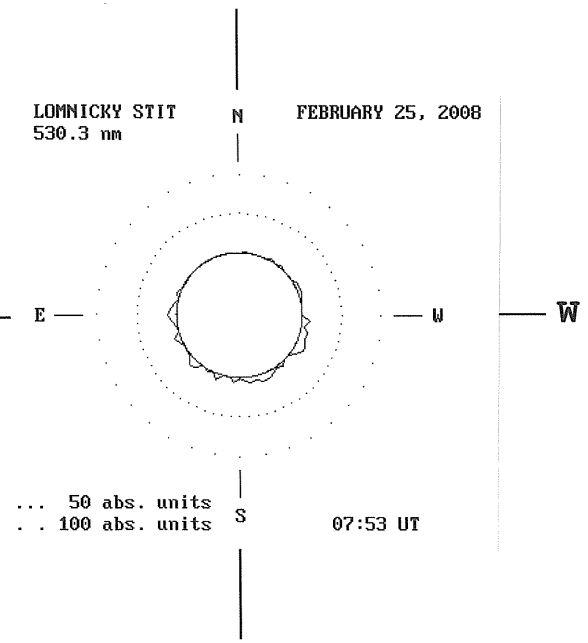
0149 UT

HOLLOMAN SUNSPOTS



2028 UT

LOMNICKY PEAK CORONA (1.04 Radii)------

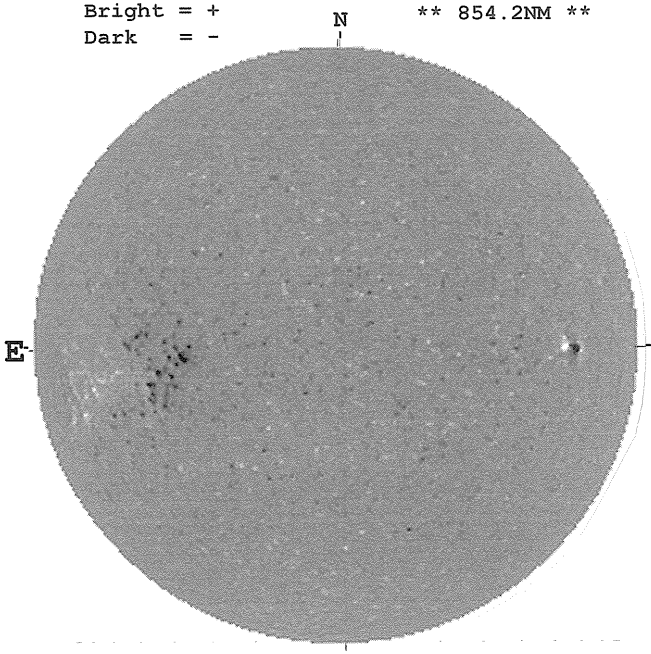


February 26, 2008 (P=-20.57, Bo=-7.16, Lo= 303.76)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

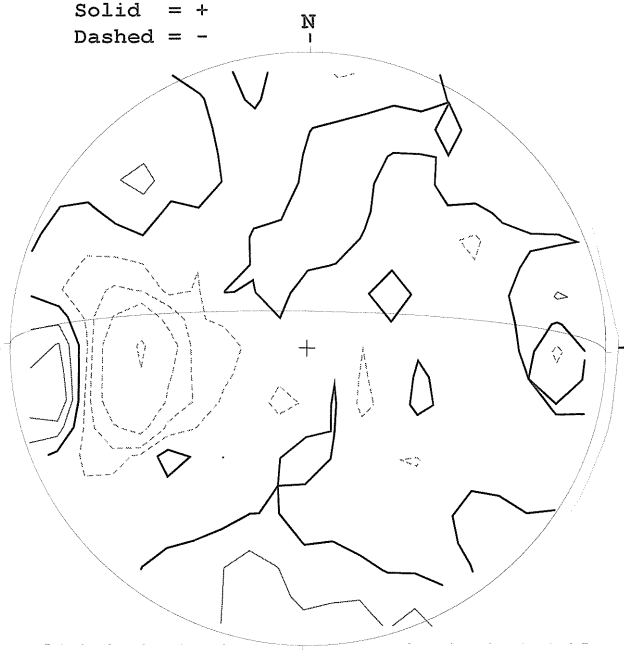
** 854.2NM **



2004 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

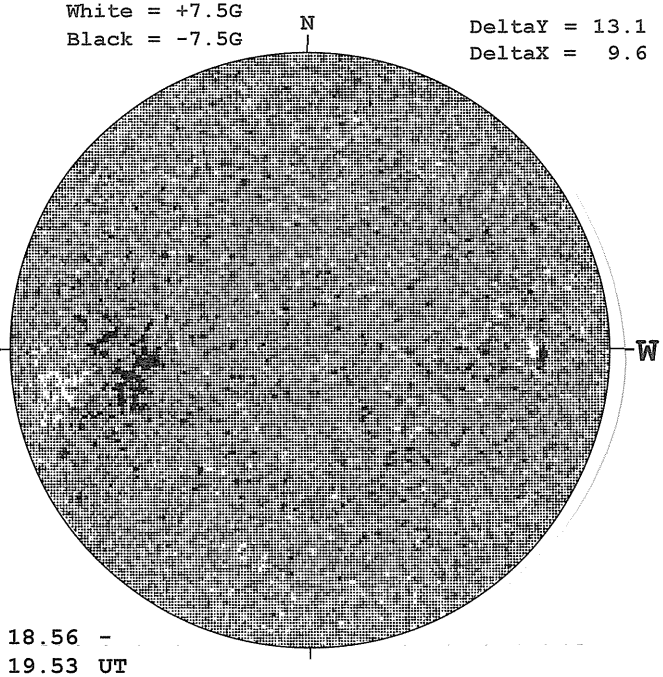


2131 UT

MT. WILSON MAGNETOGRAM

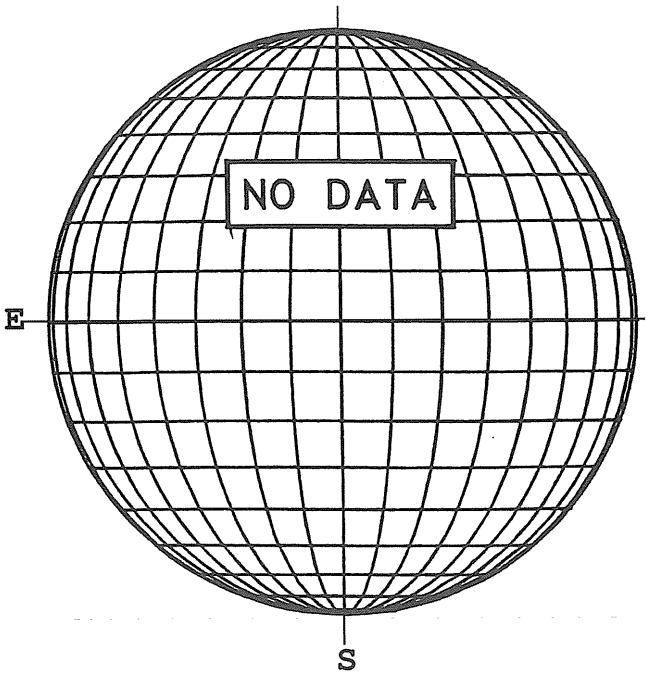
White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6

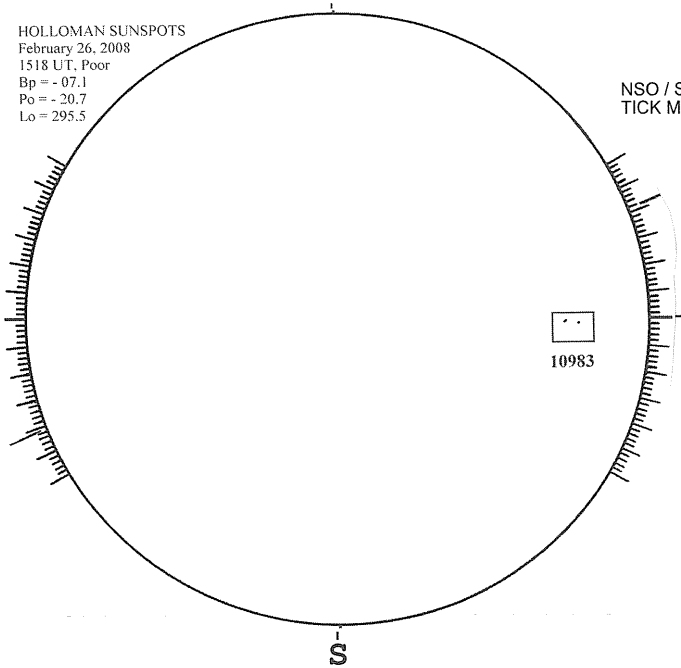


18.56 -
19.53 UT

MEUDON H-ALPHA

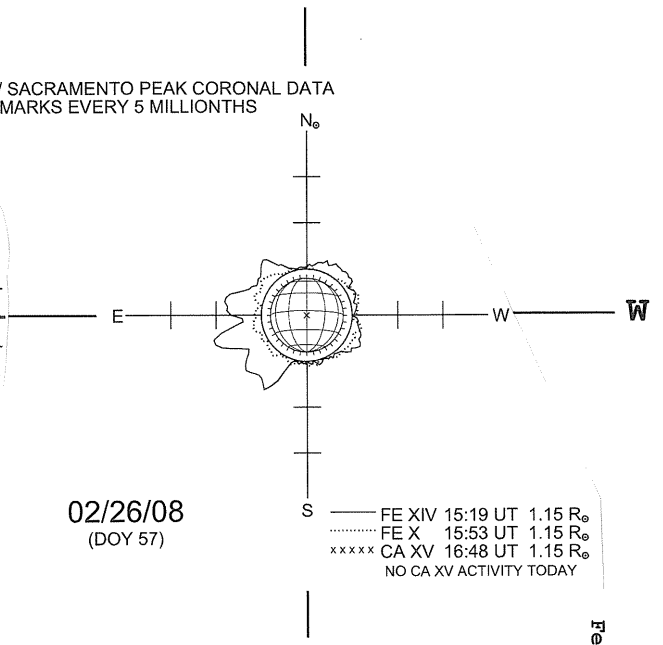


HOLLOMAN SUNSPOTS



1518 UT

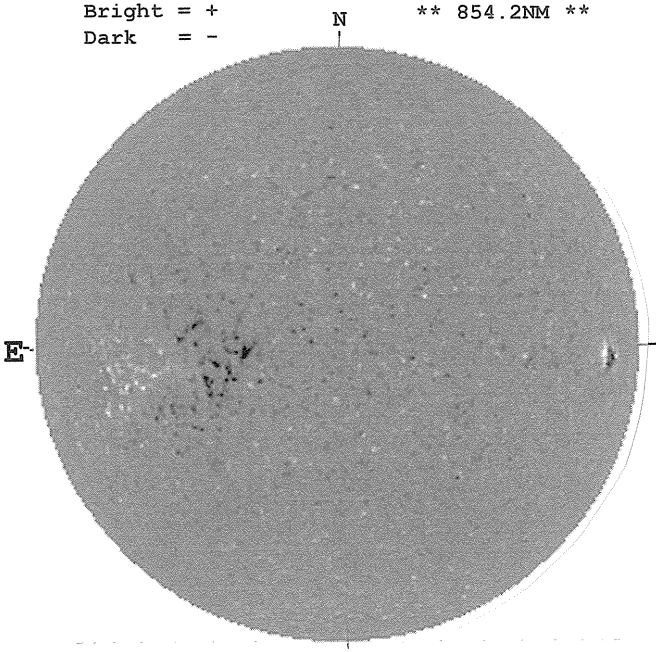
SACRAMENTO PEAK CORONA (1.15 Radii)-----



71
Feb 08

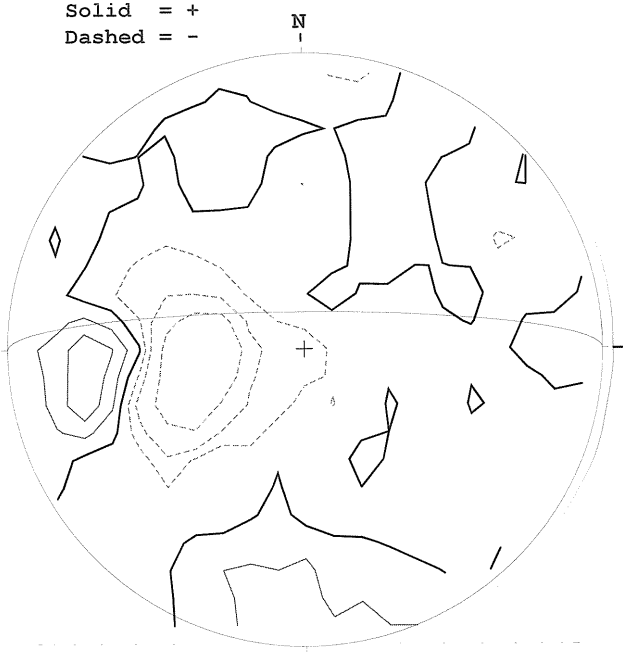
February 27, 2008 (P=-20.84, Bo=-7.18, Lo= 290.59)

KITT PEAK MAGNETOGRAM -- SOLIS
Bright = +
Dark = -
** 854.2NM **



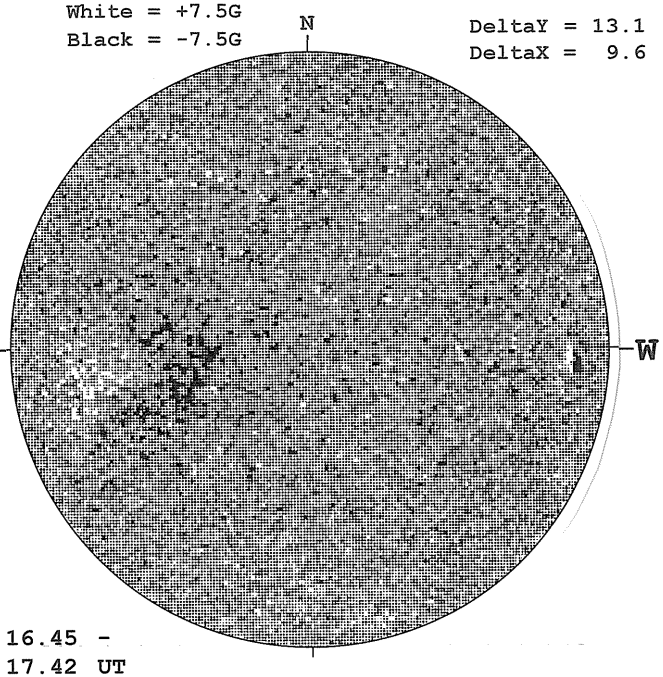
1852 UT

STANFORD MAGNETOGRAM
Solid = +
Dashed = -



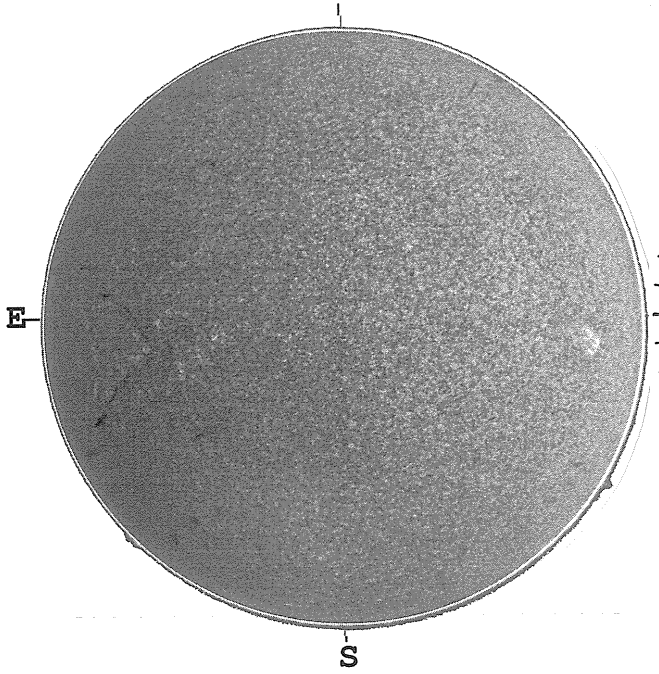
2214 UT

MT. WILSON MAGNETOGRAM
White = +7.5G
Black = -7.5G
DeltaY = 13.1
DeltaX = 9.6



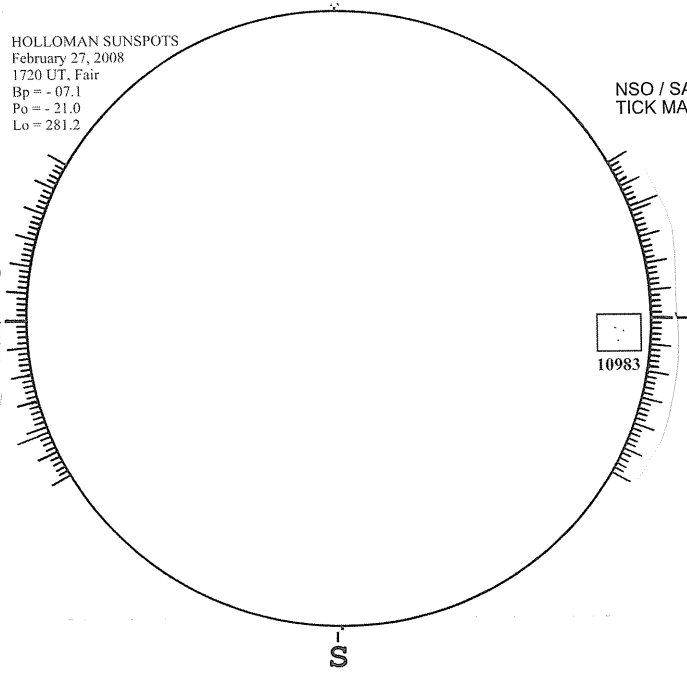
16.45 -
17.42 UT

HUAIROU H-ALPHA



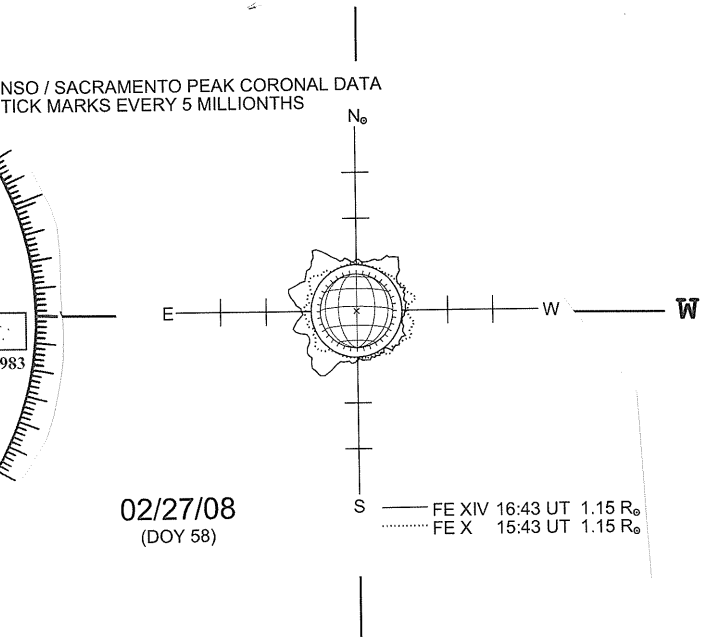
0506 UT

HOLLOMAN SUNSPOTS



1720 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



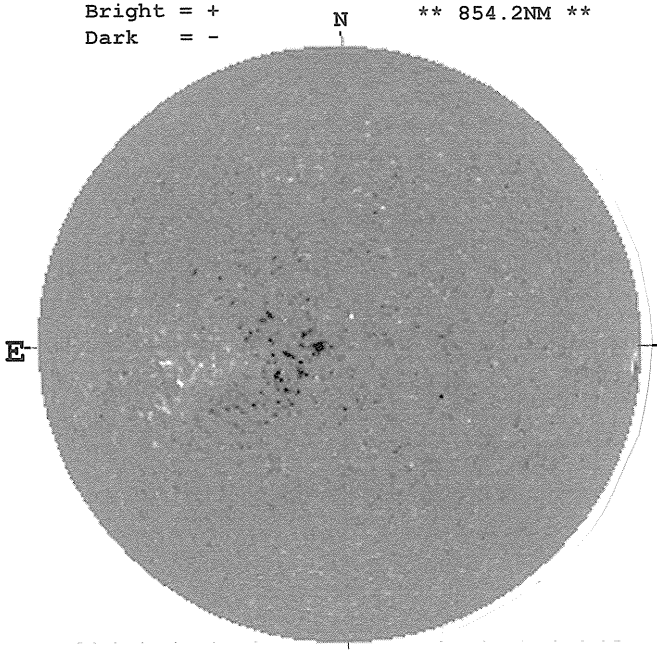
02/27/08
(DOY 58)

February 28, 2008 (P=-21.10, Bo=-7.20, Lo= 277.42)

KITT PEAK MAGNETOGRAM -- SOLIS

Bright = +
Dark = -

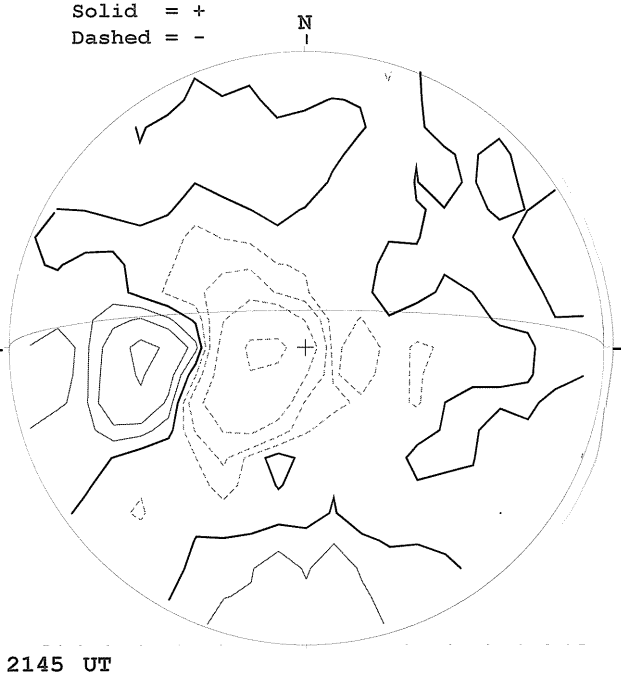
** 854.2NM **



2039 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

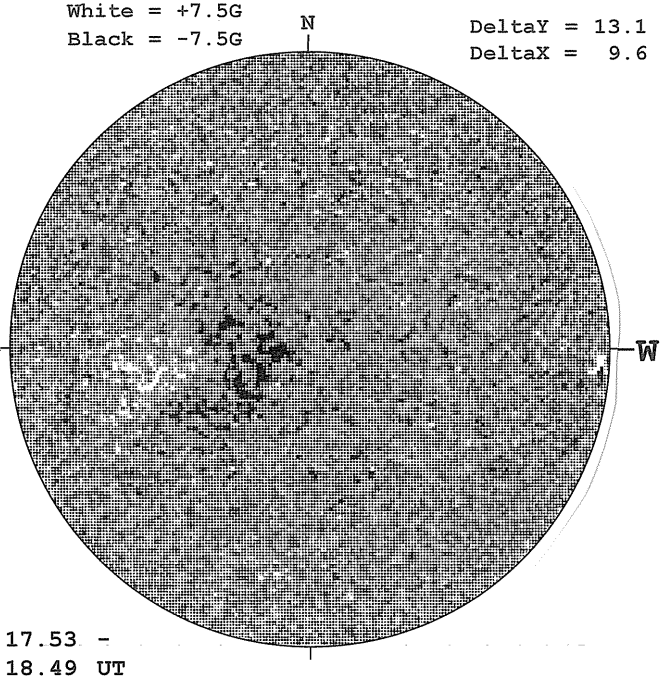


2145 UT

MT. WILSON MAGNETOGRAM

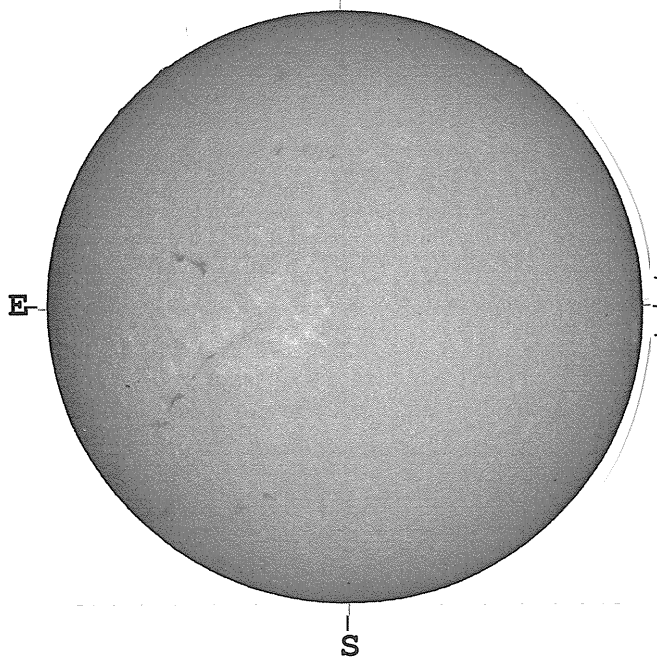
White = +7.5G
Black = -7.5G

DeltaY = 13.1
DeltaX = 9.6



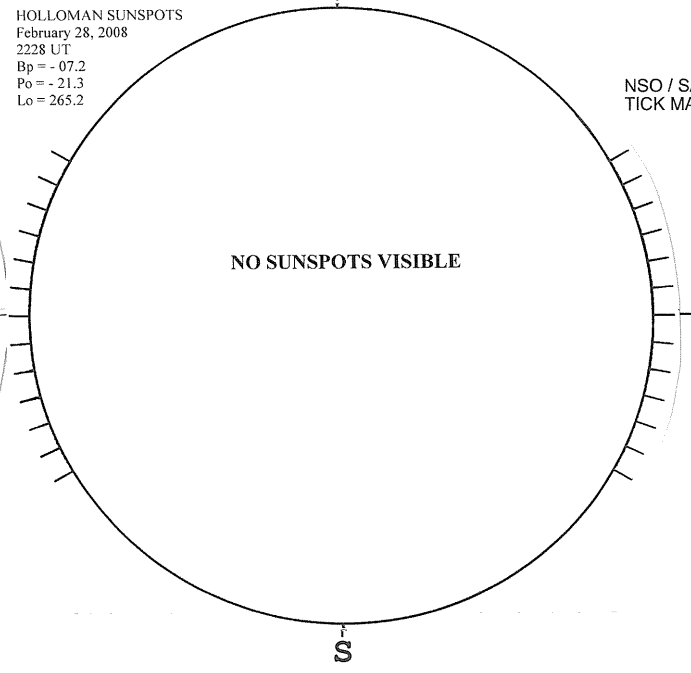
17.53 -
18.49 UT

BIG BEAR H-ALPHA



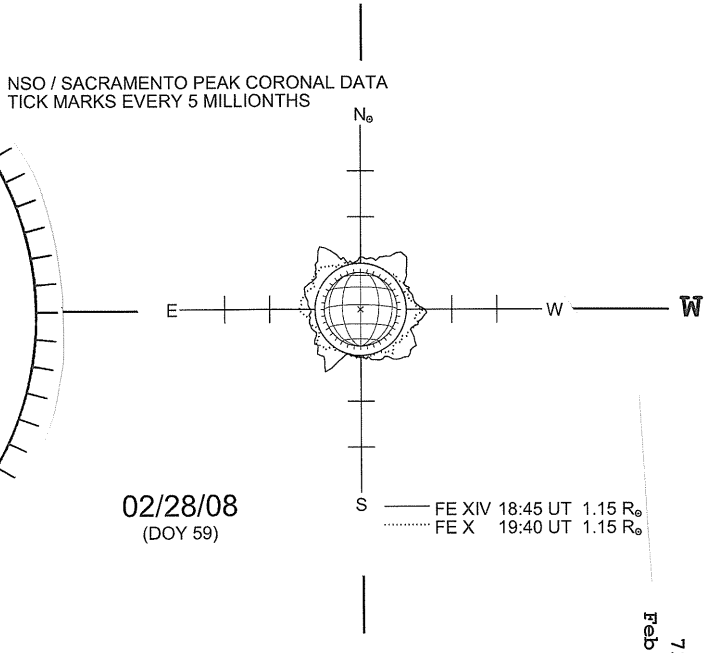
2120 UT

HOLLOMAN SUNSPOTS



2228 UT

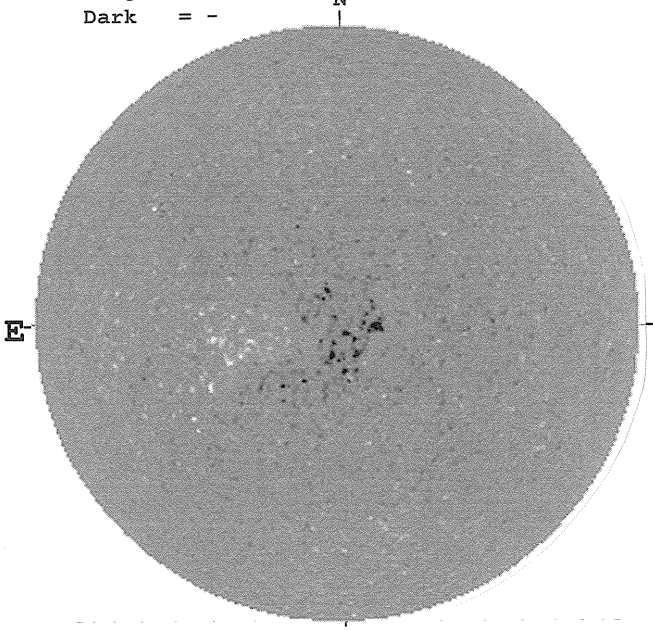
SACRAMENTO PEAK CORONA (1.15 Radii)----



73
Feb 08

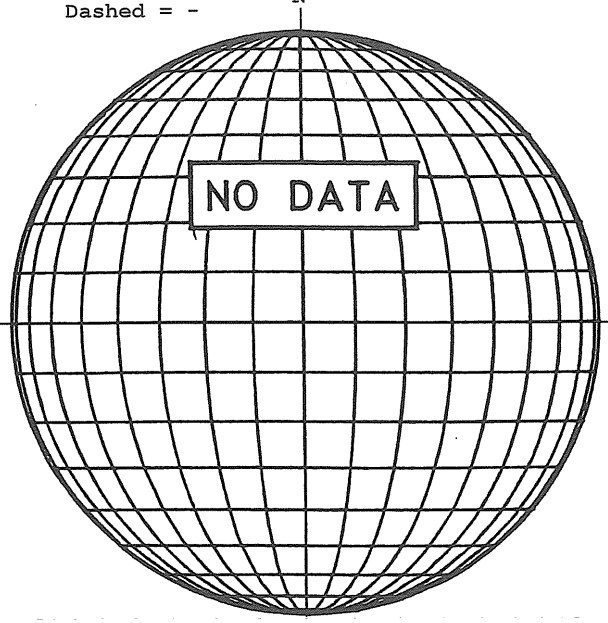
February 29, 2008 (P=-21.36, Bo=-7.21, Lo= 264.25)

KITT PEAK MAGNETOGRAM -- SOLIS
Bright = +
Dark = -
** 854.2NM **

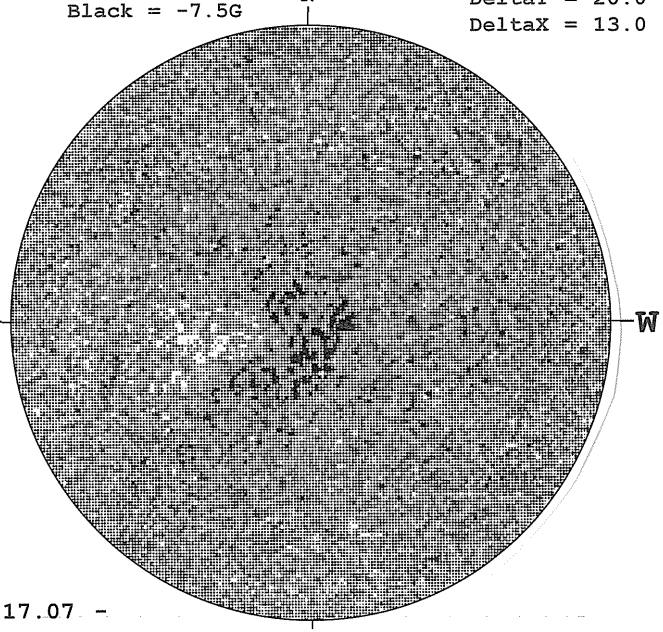


1734 UT

STANFORD MAGNETOGRAM
Solid = +
Dashed = -

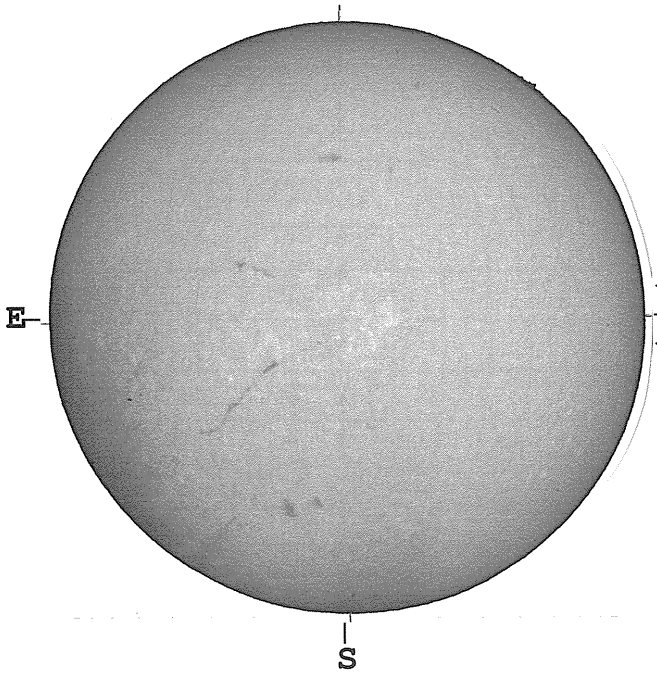


MT. WILSON MAGNETOGRAM
White = +7.5G
Black = -7.5G
DeltaY = 20.0
DeltaX = 13.0



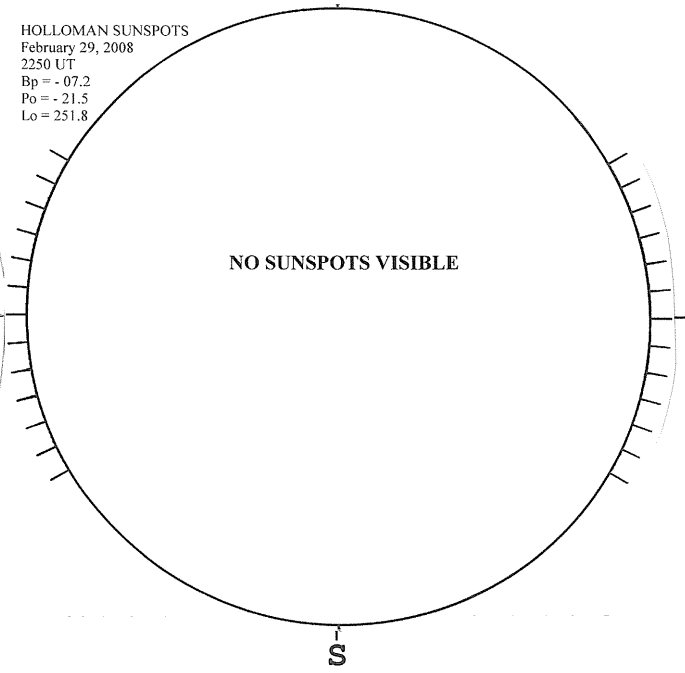
17.07 -
18.03 UT

BIG BEAR H-ALPHA



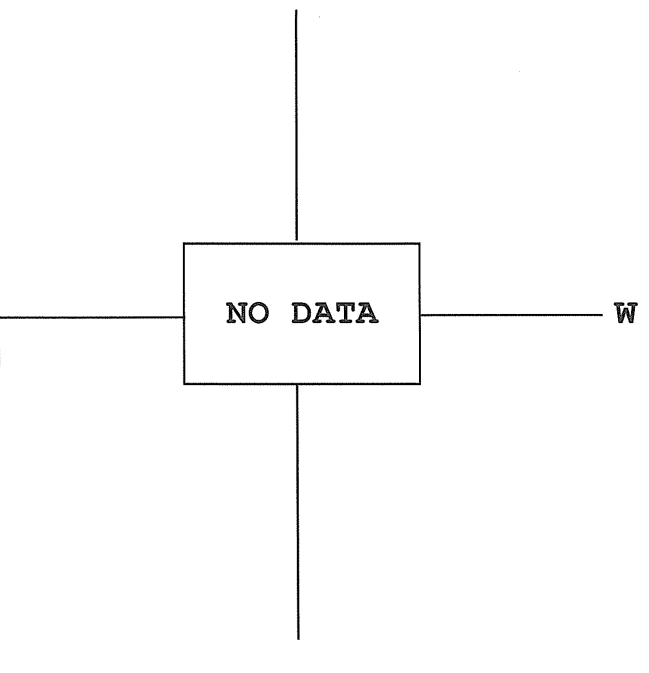
2007 UT

HOLLOMAN SUNSPOTS

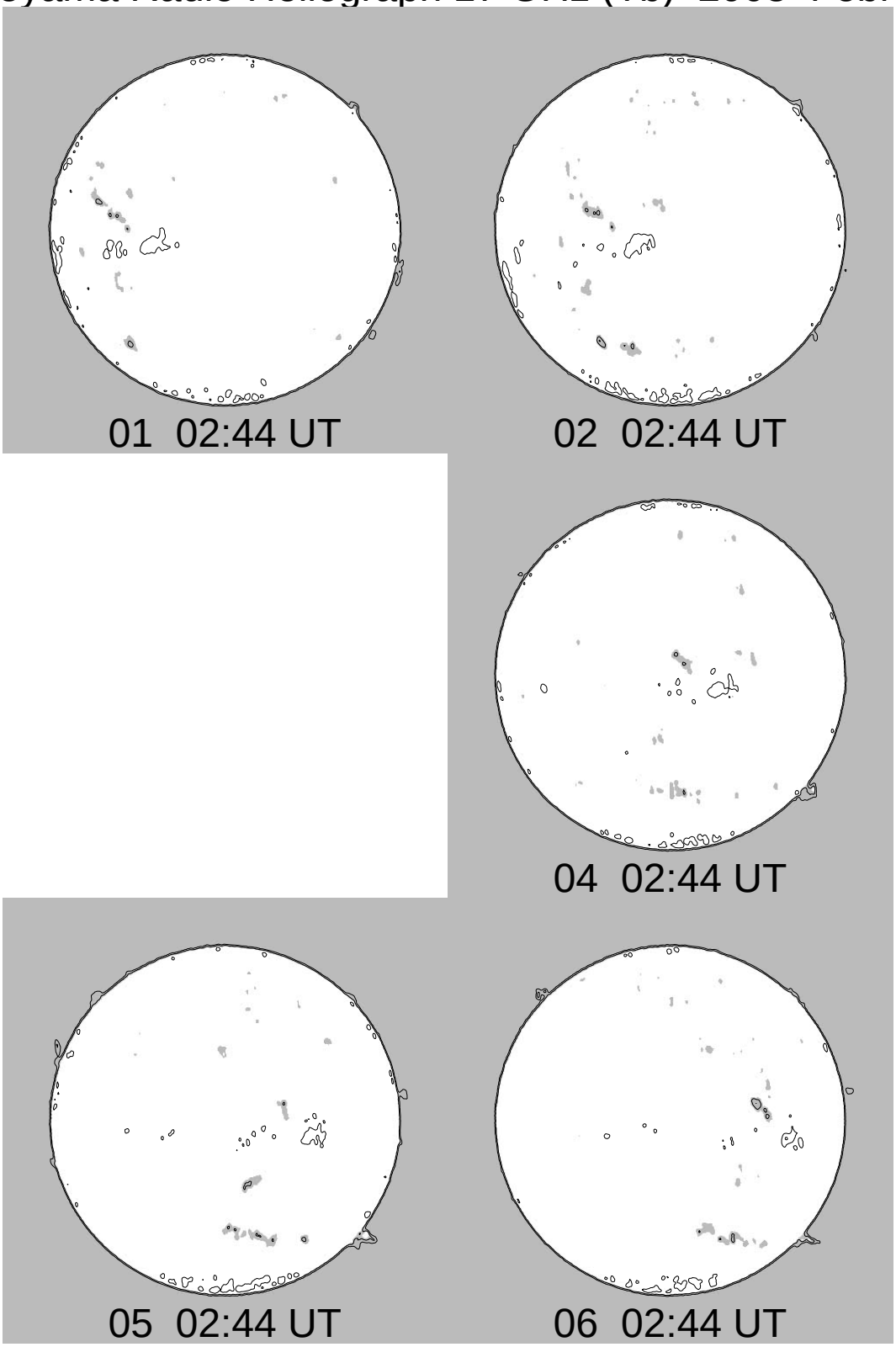


2250 UT

SACRAMENTO PEAK CORONA (1.15 Radii)-----

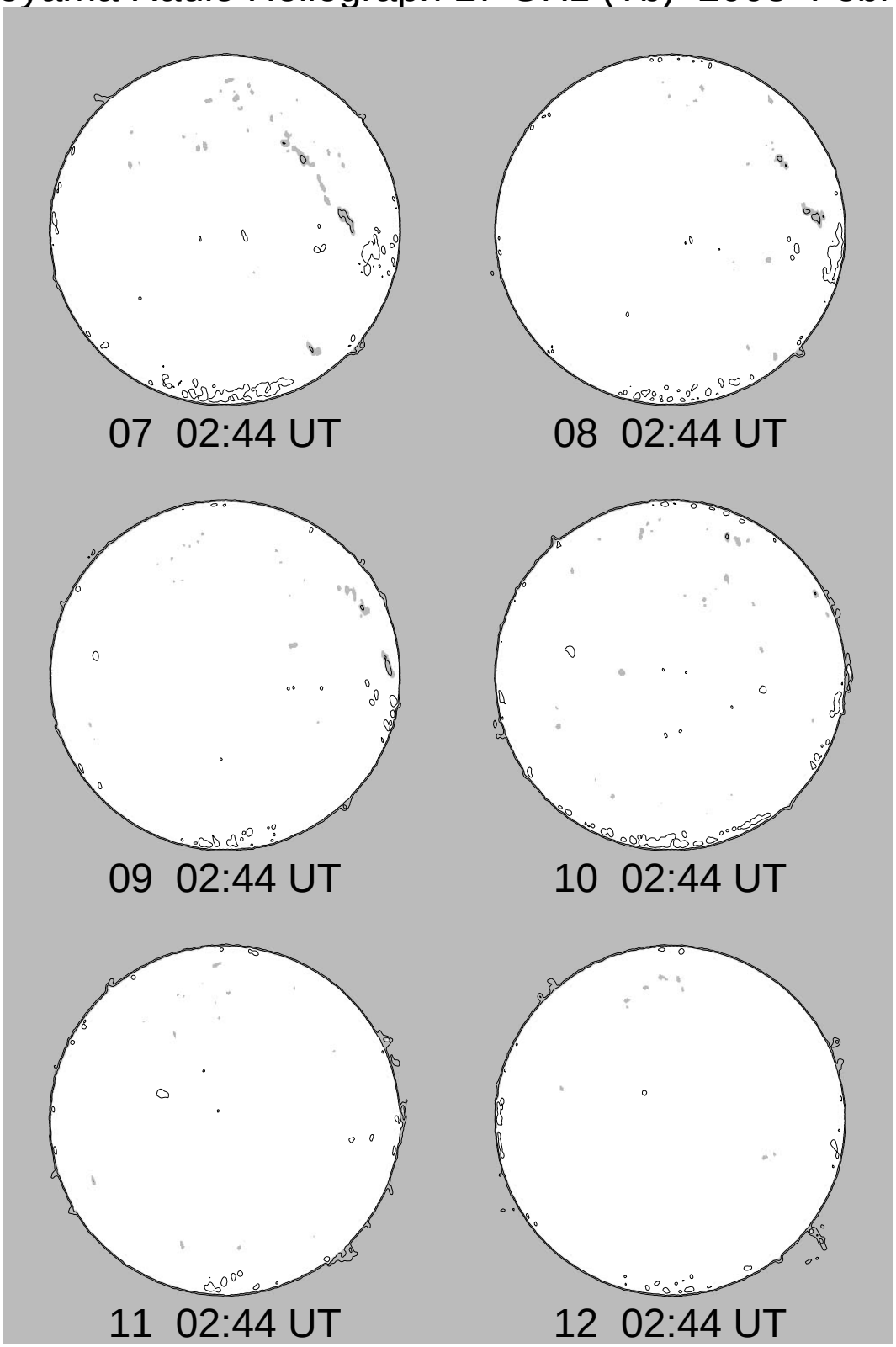


Nobeyama Radio Heliograph 17 GHz (Tb) 2008 February



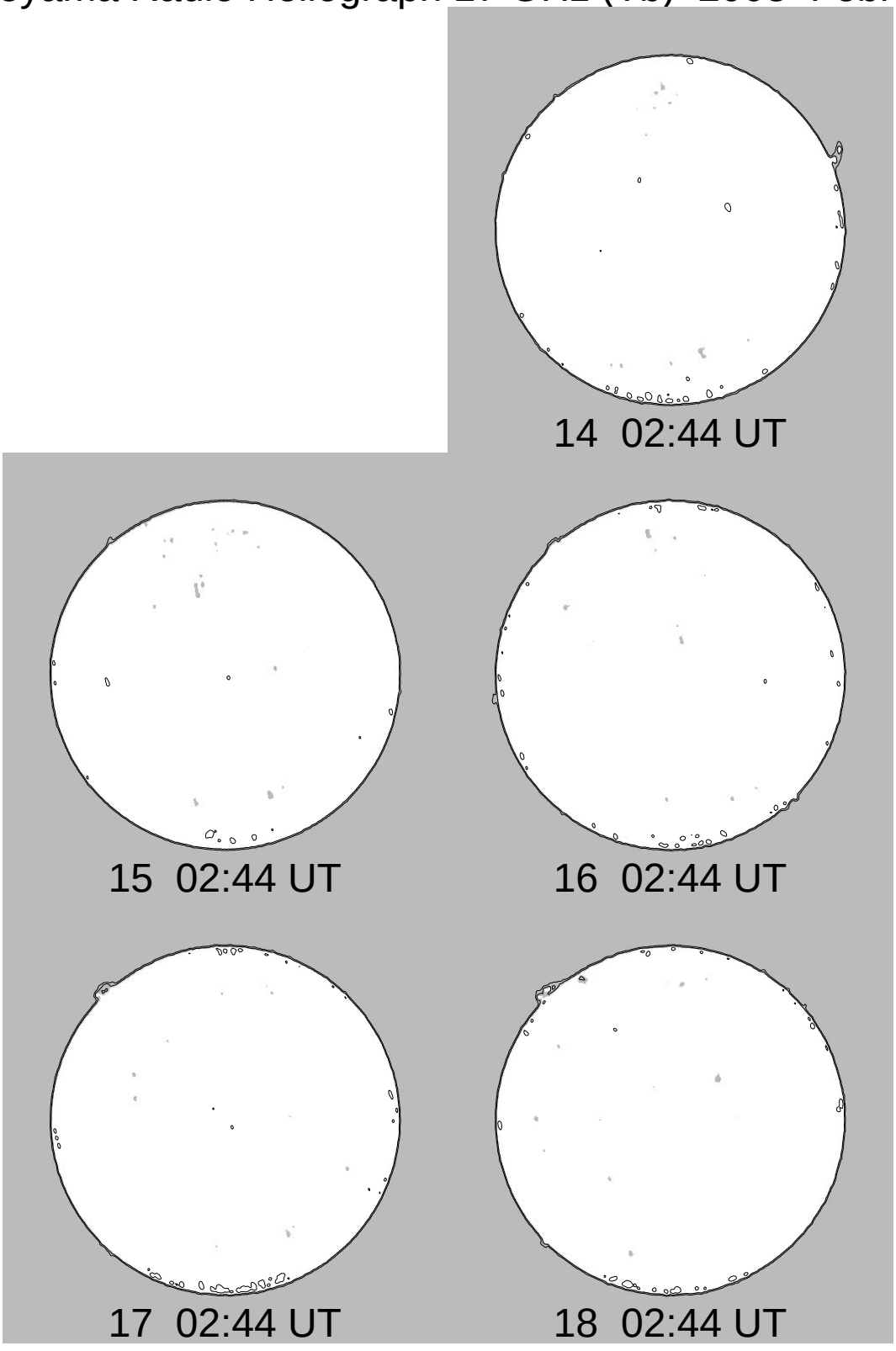
Contour Levels Tb=[5,8,12,20,50,100] x 10^3 K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2008 February



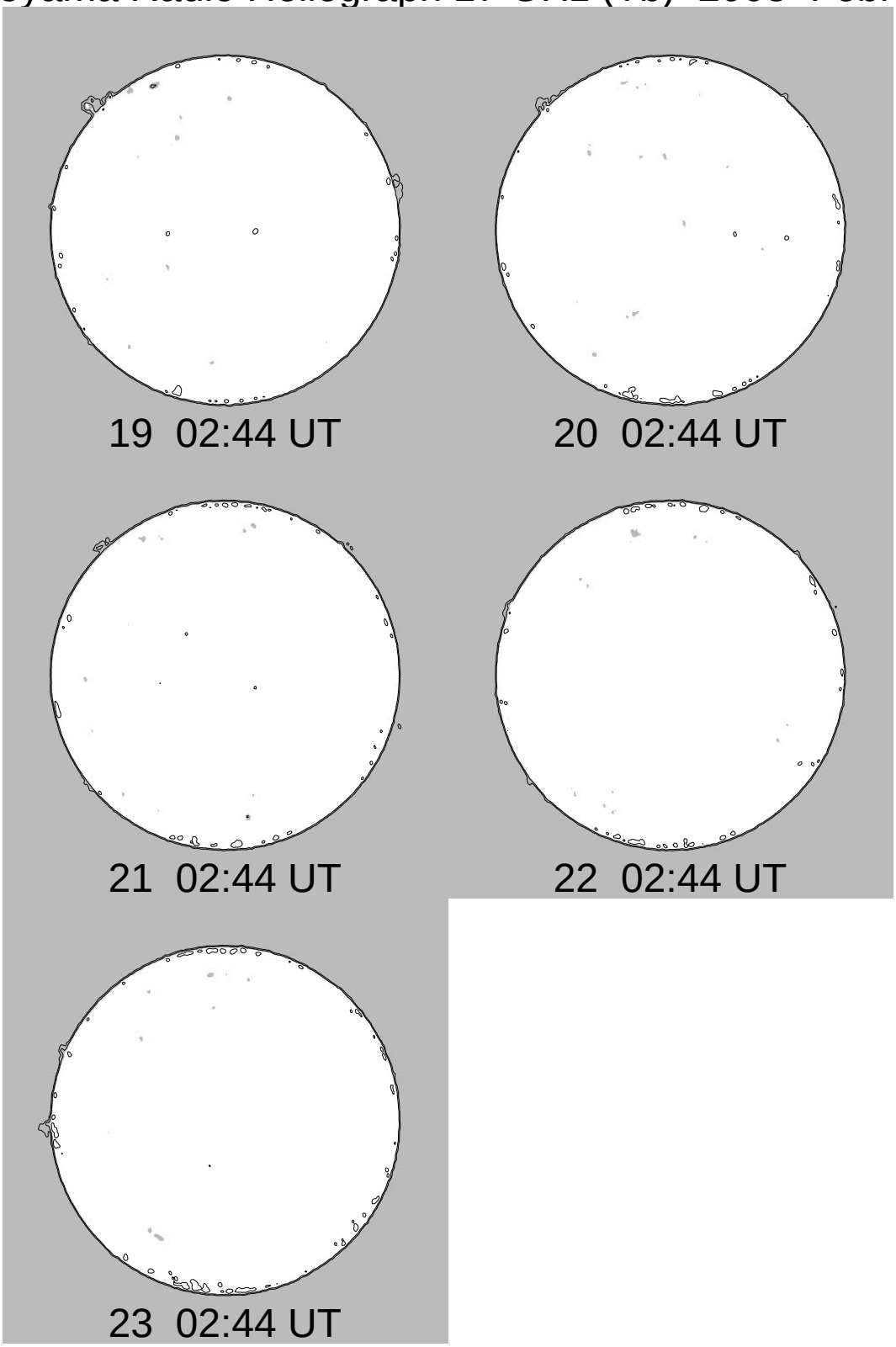
Contour Levels Tb=[5,8,12,20,50,100] x 10^3 K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2008 February



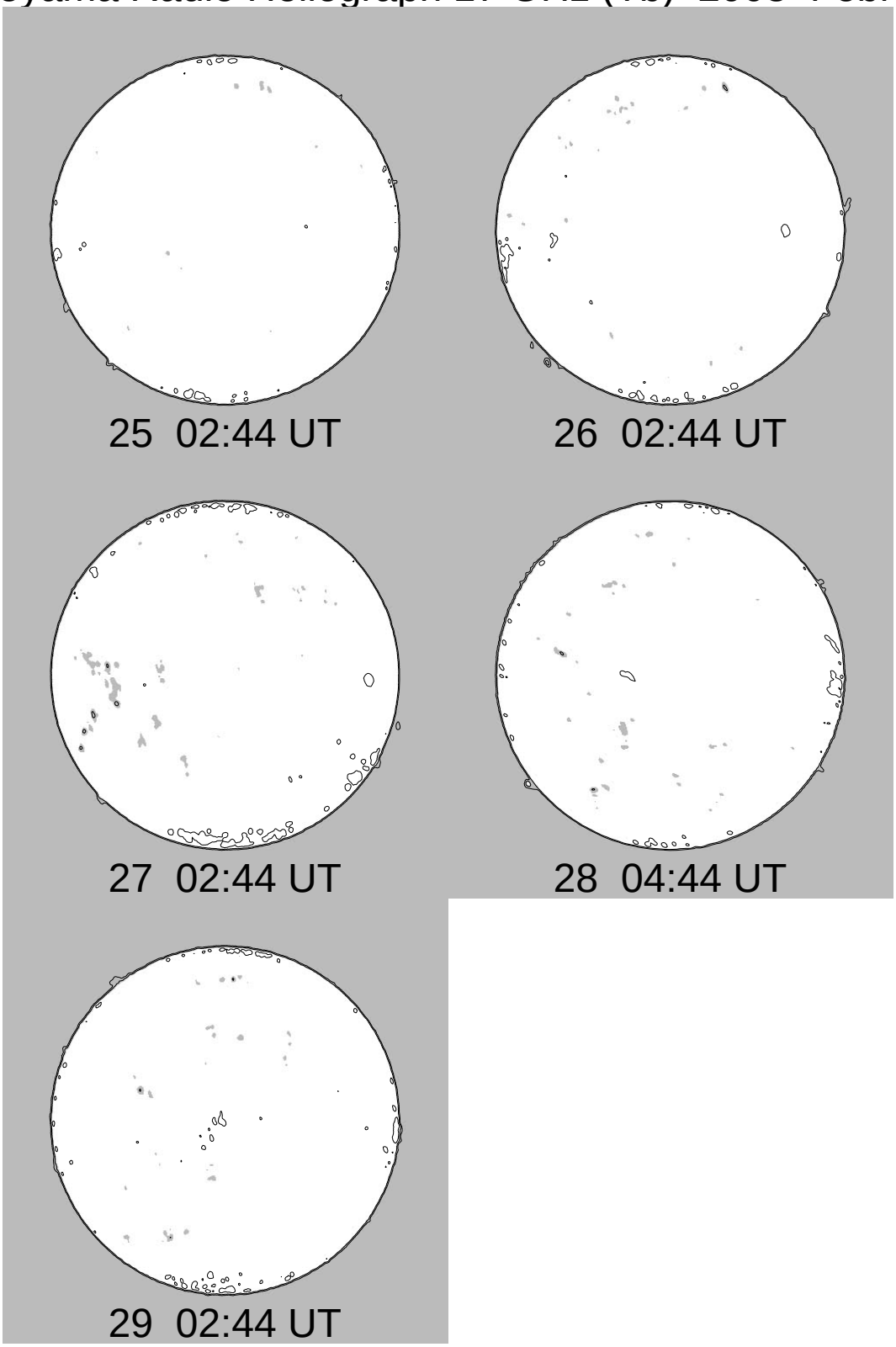
Contour Levels Tb=[5,8,12,20,50,100] x 10^3 K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2008 February



Contour Levels Tb=[5,8,12,20,50,100] x 10^3 K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2008 February



Contour Levels Tb=[5,8,12,20,50,100] x 10^3 K
Grey level Tb <= 9,500 K

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)
FEBRUARY 2008

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
10982		HOLL	01	29	1616	S09	E57	02	2.9		B	BXO	20	3	4	3
10982		LEAR	01	30	0043	S10	E52	02	2.9		B	BXO	50	4	4	3
10982		VORO	01	30	0052	S09	E52	02	2.9			BRO	32	5	3	3
10982		SVTO	01	30	0815	S08	E48	02	2.9		B	BXO	60	4	6	3
10982		KAND	01	30	0830	S10	E48	02	3.0			BXO		4	5	4
10982		TACH	01	30	0926	S10	E48	02	3.0			BRI	8	4	5	4
10982		VORO	01	31	0031	S09	E38	02	2.9			BRO	46	5	4	3
10982		LEAR	01	31	0115	S10	E37	02	2.8		B	CAO	30	7	4	3
10982		PURP	01	31	0250	S09	E38	02	3.0			DSO	32	4	5	3
10982		TACH	01	31	0525	S11	E35	02	2.8			BRO	6	4	4	3
10982		SVTO	01	31	0825	S09	E34	02	2.9		B	BXO	60	3	5	2
10982		KAND	01	31	0830	S10	E35	02	3.0			BXO		3	6	4
10982		HOLL	01	31	1640	S02	E28	02	2.8		B	DSO	80	5	6	2
10982		VORO	02	01	0057	S10	E25	02	2.9			CAI	51	6	5	3
10982		VORO	02	02	0117	S09	E11	02	2.9			AXX	9	2		3
10982		VORO	02	03	0247	S09	W05	02	2.7			AXX	7	3	1	3
10982		KAND	01	30	0830	S10	E48	02	3.0			BXO		4	5	4
10982		KAND	01	31	0830	S10	E35	02	3.0			BXO		3	6	4
10982		LEAR	02	01	0110	S10	E25	02	2.9		B	BXO	20	12	6	3
10982		TACH	02	01	0541	S10	E22	02	2.9			BRI	8	4	5	3
10982		KAND	02	01	0815	S09	E20	02	2.8			DAO		7	6	3
10982		SVTO	02	01	1000	S11	E22	02	3.1		B	DRO	20	6	7	3
10982		HOLL	02	01	1808	S09	E15	02	2.9		B	CSO	70	8	7	2
10982		LEAR	02	02	0137	S08	E09	02	2.7		B	BXO	20	8	4	3
10982		SVTO	02	02	1005	S08	E06	02	2.9		B	BXO	50	4	3	3
10982		HOLL	02	02	1650	S09	E01	02	2.8		B	BXO	30	6	3	2
10982		LEAR	02	03	0119	S09	W04	02	2.7		B	BXO	10	4	2	2
10982		SVTO	02	03	0945	S08	W08	02	2.8		A	AXX	40	3	2	2
10982		KAND	02	03	1120	S09	W11	02	2.6			BXO		2	2	2
10982		HOLL	02	03	1845	S08	W14	02	2.7		B	BXO	20	3	3	1
10982		LEAR	02	04	0127	S10	W19	02	2.6		B	BXO	10	4	4	3
10982		SVTO	02	04	1020	S07	W18	02	3.1		A	AXX	10	2	2	2
10983		KAND	02	25	0845	S06	W33	02	22.9			AX		1		4
10983		SVTO	02	25	0930	S01	W32	02	23.0		A	AXX	10	1	1	3
10983		HOLL	02	25	2028	S03	W37	02	23.1		A	AXX	20	2	4	3
10983		VORO	02	26	0030	S06	W40	02	23.0			BXO	8	2	3	3
10983		LEAR	02	26	0156	S06	W43	02	22.9		B	BXO	20	4	3	4
10983		LEAR	02	26	0156	S06	W43	02	22.9		B	BXO	200	4	3	4
10983		TACH	02	26	0736	S06	W43	02	23.1			BRO	9	3	3	4
10983		KAND	02	26	0845	S06	W46	02	22.9			BXO		3	5	4
10983		SVTO	02	26	1136	S05	W48	02	22.9		B	BXO	50	3	5	2
10983		HOLL	02	26	1518	S05	W49	02	23.0		B	DSO	30	2	5	2
10983		VORO	02	26	2354	S06	W53	02	23.0			BRO	24	2	4	3
10983		LEAR	02	27	0005	S05	W53	02	23.0		B	BXO	20	2	4	3
10983		TACH	02	27	0811	S05	W57	02	23.1			BXO	6	2	4	3
10983		KAND	02	27	0945	S05	W59	02	23.0			AX		1		2
10983		SVTO	02	27	1150	S05	W62	02	22.8		B	BXO	20	2	5	2
10983		HOLL	02	27	1720	S06	W65	02	22.8		B	BXO	40	3	7	3
10983		SVTO	02	28	0915	S06	W77	02	22.6		B	BXO	30	2	6	2
10984		HOLL	03	05	1509	S05	W65	02	29.8		A	AXX	20	3	3	3
10984		VORO	03	05	2350	S08	W69	02	29.8			CAO	25	3	3	4
10984		LEAR	03	06	0110	S08	W68	02	29.9		B	BXO	30	2	1	2
10984		HOLL	03	06	1855	S05	W75	03	1.2		A	AXX	20	1	1	2
10984		VORO	03	06	2320	S09	W82	02	29.8			AXX	11	2		3

Stations reporting:

HOLL = Holloman LEAR = Learmonth PURP = Purple Mountain TACH = Tashkent
KAND = Kandilli PALE = Palehua SVTO = San Vito VORO = Voroshilov

SUDDEN IONOSPHERIC DISTURBANCES
FEBRUARY 2008

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
03	1013	1018	1039	1							No flare		
07	0714	0725	0800	1	1						No flare		
11	1439	1448	1522	1	1						No flare		
24	0920	0940	0956	1	1						No flare		

OBSERVATORIES REPORTING FOR FEBRUARY 2008

Panska Ves, Czech Republic	SES, SEA, SWF
Upice, Czech Republic	SEA

Observations are not necessarily continuous.
* = No Flare Patrol

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

Spectral Observations

FEBRUARY 2008

OBSERVATION			EVENT					FREQUENCY		
Start	End		Start	End	Spectral	Event	Int	Lower	Upper	Remarks
Day (UT)	(UT)	Sta	(UT)	(UT)	Class	Remarks	(1-3)	(MHz)	(MHz)	
01 0000	0735	CULG								
0000	0807	HIRA								
0800	1432	ONDR								
0825	1530	BLEN								
2000	2400	CULG								
2133	2400	HIRA								
02 0000	0800	CULG								
0000	0809	HIRA								
0758	1434	ONDR								
0825	1530	BLEN								
2000	2400	CULG	2156.0	2157.0	III	G	2	18X	200	
		CULG	2305.0	2306.0	III	G	1	18X	90	
		LEAR	2305.0	2312.0	III		2	25	179	
		PALE	2305.0	2312.0	III		2	25	180	
2132	2400	HIRA	2305.5	2312.0	III	G	1	25X	280	
		CULG	2309.0	2310.0	III	G	2	18X	260	
		CULG	2312.0	2312.0	III	B	1	18X	90	
		CULG	2316.0	2316.0	III	B	1	20	70	
03		LEAR	0008.0	0038.0	III	N	1	25	83	
0000	0800	CULG	0017.0	0018.0	III	G	1	20	80	
0000	0810	HIRA	0034.5	0038.0	III	G	1	25X	210	
		CULG	0035.0	0038.0	III	G	1	18	100	
		LEAR	0108.0	0115.0	III		1	25	83	
		PALE	0108.0	0115.0	III	N	1	25	71	
		HIRA	0108.5	0109.0	III	G	1	90	210	
		CULG	0109.0	0109.0	III	B	1	18	90	
		HIRA	0114.0	0116.0	III	B	1	90	210	
		CULG	0116.0	0116.0	III	B	1	18	90	
		LEAR	0141.0	0153.0	III	N	1	25	80	
		PALE	0141.0	0153.0	III	N	1	48	58	
		CULG	0142.0	0145.0	III	G	1	18	75	
		HIRA	0153.5	0154.0	III	B	1	40	120	
		CULG	0154.0	0154.0	III	B	1	18	90	
		HIRA	0259.0	0259.5	III	B	1	60	110	
		CULG	0300.0	0300.0	III	B	1	23	75	
		LEAR	0322.0	0323.0	III		1	25	179	
		CULG	0323.0	0323.0	III	G	1	18X	90	
		HIRA	0323.0	0324.0	III	G	1	30	230	
		PALE	0323.0	0323.0	III		2	29	178	
		LEAR	0513.0	0515.0	III		1	25	176	
		HIRA	0513.5	0515.0	III	G	1	25X	210	
		CULG	0514.0	0514.0	III	B	1	20	70	
		LEAR	0550.0	0551.0	III		1	25	178	
		CULG	0551.0	0551.0	III	B	1	18	80	
		HIRA	0551.0	0552.0	III	G	1	25X	480	
		LEAR	0604.0	0606.0	III		1	25	75	
		HIRA	0605.5	0606.0	III	B	1	50	220	
0756	1436	ONDR								
		SVTO	0817.0	0952.0	III	N	1	25	74	
		LEAR	0844.0	0844.0	III		1	25	99	
2000	2400	CULG								
2131	2400	HIRA								
04 0000	0800	CULG								
0000	0812	HIRA								
0754	1439	ONDR								
0825	1530	BLEN								
2000	2400	CULG								
2130	2400	HIRA								
05 0000	0800	CULG								
0000	0813	HIRA								
		LEAR	0445.0	0445.0	III		1	25	52	
0752	1430	ONDR								
0815	1530	BLEN								
2000	2400	CULG								
2130	2400	HIRA								

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

Spectral Observations

FEBRUARY 2008

OBSERVATION			EVENT				FREQUENCY			
Start	End		Start	End	Spectral	Event	Int	Lower	Upper	Remarks
Day (UT)	(UT)	Sta	(UT)	(UT)	Class	Remarks	(1-3)	(MHz)	(MHz)	
06 0000	0800	CULG								
0000	0814	HIRA								
0750	1443	ONDR								
0810	1530	BLEN								
2000	2400	CULG								
2129	2400	HIRA								
07 0000	0800	CULG								
0000	0815	HIRA								
0748	1445	ONDR								
0810	1535	BLEN								
2000	2400	CULG								
2128	2400	HIRA								
08		LEAR	0659.0	0701.0	III		2	25	180	
0000	0816	HIRA	0659.5	0701.5	III	G	1	25X	230	
		SVTO	0700.0	0701.0	III		1	25	149	
0000	0800	CULG	0700.0	0702.0	III	G	1	20	90	
0746	1447	ONDR								
0805	1535	BLEN								
2000	2400	CULG								
2127	2400	HIRA								
09 0000	0800	CULG								
0000	0817	HIRA								
0744	1450	ONDR								
0800	1540	BLEN								
2000	2400	CULG								
2126	2400	HIRA								
10 0000	0800	CULG								
0000	0818	HIRA								
0741	1437	ONDR								
0755	1540	BLEN								
2000	2400	CULG								
2125	2400	HIRA								
11 0000	0800	CULG								
0000	0819	HIRA								
0739	1451	ONDR								
0745	1540	BLEN								
2000	2400	CULG								
2124	2400	HIRA								
12 0000	0800	CULG								
0000	0820	HIRA								
0737	1456	ONDR								
0745	1540	BLEN								
2000	2400	CULG								
2123	2400	HIRA								
13 0000	0800	CULG								
0000	0821	HIRA								
0735	1458	ONDR								
0745	1540	BLEN								
2000	2400	CULG								
2122	2400	HIRA								
14 0000	0800	CULG								
0000	0822	HIRA								
0733	1445	ONDR								
0745	1545	BLEN								
2000	2400	CULG								
2121	2400	HIRA								
15 0000	0800	CULG								
0000	0823	HIRA								
0731	1502	ONDR								
0740	1545	BLEN								

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

Spectral Observations

FEBRUARY 2008

OBSERVATION				EVENT				FREQUENCY			
Day	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	Lower (MHz)	Upper (MHz)	Remarks
15	2000	2400	CULG								
	2120	2400	HIRA								
16	0000	0800	CULG								
	0000	0824	HIRA								
	0728	1505	ONDR								
	0740	1545	BLEN								
	2000	2400	CULG								
	2118	2400	HIRA								
17	0000	0800	CULG								
	0000	0825	HIRA								
	0726	1507	ONDR								
	0740	1545	BLEN								
	2000	2400	CULG								
	2117	2400	HIRA								
18	0000	0800	CULG								
	0000	0826	HIRA								
	0724	1509	ONDR								
	0735	1100	BLEN								
	2000	2400	CULG								
	2116	2400	HIRA								
19	0000	0800	CULG								
	0000	0827	HIRA								
	0722	1511	ONDR								
	0735	1550	BLEN								
	2000	2400	CULG								
	2115	2400	HIRA								
20	0000	0800	CULG								
	0000	0828	HIRA								
	0720	1513	ONDR								
	0730	1550	BLEN								
	2000	2400	CULG								
	2114	2400	HIRA								
21	0000	0800	CULG								
	0000	0829	HIRA								
	0717	1515	ONDR								
	0730	1550	BLEN								
	2000	2400	CULG								
	2113	2400	HIRA								
22	0000	0800	CULG								
	0000	0830	HIRA								
	0715	1517	ONDR								
	0730	1550	BLEN								
	2000	2400	CULG								
	2112	2400	HIRA								
23	0000	0800	CULG								
	0000	0831	HIRA								
	0713	1519	ONDR								
	0730	1555	BLEN								
	2000	2400	CULG								
	2111	2400	HIRA								
24	0000	0800	CULG								
	0000	0832	HIRA								
	0711	1521	ONDR								
	0730	1600	BLEN								
	2000	2400	CULG								
	2109	2400	HIRA								
25	0000	0800	CULG								
	0000	0833	HIRA								
	0708	1523	ONDR								

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

Spectral Observations

FEBRUARY 2008

OBSERVATION			EVENT				FREQUENCY			
Day	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	Lower (MHz)	Upper (MHz)	Remarks
25	0730	1600	BLEN								
			SVTO	1045.0	1045.0	III		1	74	156	
	2000	2400	CULG								
	2107	2400	HIRA								
26	0000	0800	CULG								
	0000	0834	HIRA								
	0706	1525	ONDR								
	0725	1600	BLEN								
			SGMR	1846.0	1846.0	III		1	30	180	
	2000	2400	CULG								
	2106	2400	HIRA								
27	0000	0800	CULG								
	0000	0834	HIRA								
	0704	1527	ONDR								
	0725	1600	BLEN								
	2000	2400	CULG								
	2105	2400	HIRA								
28	0000	0800	CULG								
	0000	0835	HIRA								
	0702	1518	ONDR								
	2000	2400	CULG								
	2104	2400	HIRA								
29	0000	0800	CULG								
	0000	0836	HIRA								
	0659	1531	ONDR								
	2000	2400	CULG								
	2103	2400	HIRA								

Event Remarks:

- B = Single burst
- C = Underlyling continuum (particularly with Type I)
- DC = Drifting chains
- DP = Drifting pairs
- F = Fundamental emission (Type II)
- FS = Fine structures (Type IV)
- G = Small group of bursts (<10)
- GG = Large group of bursts (>10)
- H = Herringbone
- HARM = Harmonic
- N = Intermittent activity in this period
- MOV = Moving (Type IV)
- MWB = Meter wave burst
- RS = Reverse slope burst
- S = Storm in the sense of intermittent but apparently connected actively
- SH = Secondary harmonic emission
- STA = Stationary (Type IV)
- U = U-shaped burst of Type III
- UE = Uncertain emission (Type II)
- W = Weak

Frequency qualifiers:

- X = Extends beyond instrument range
- U = Uncertain frequency

Remarks:

SWF = Associated short wave fade observed
ESS = Estimated shock speed in km/s (Type II)
FLA = Associated flare observed (class optional)

Stations Reporting:

CULG = Culgoora IZMI = Izmiran LEAR = Learmonth ONDR = Ondrejov BLEN = Bleien
PALE = Palehua POTS = Potsdam SGMR = Sagamore Hill SVTO = San Vito

NOTE 1: Beginning June 26, 2001, the Bleien observatory changed to higher frequencies (1-4Ghz).
NOTE 2: Potsdam has reduced sensitivity in the 400-800 MHz range.

SOLAR RADIO NOISE STORM AT 150.9 MHZ

FROM NANÇAY RADIOHELIOGRAPH

FEBRUARY 2008

	HELIOGRAPHICS POSITIONS MEAN VALUES[1]		IMP[2]	OBSERVING TIME[3]	
DAY	E-W	S-N		START(UT)	END(UT)

SOLAR RADIO NOISE STORM AT 327 MHZ

FROM NANÇAY RADIOHELIOGRAPH

FEBRUARY 2008

	HELIOGRAPHICS POSITIONS MEAN VALUES[1]		IMP[2]	OBSERVING TIME[3]	
DAY	E-W	S-N		START(UT)	END(UT)

OTHERS DAYS: NO DETECTABLE NOISE STORM

- For the days marked by an asterisk, intense ionospheric gravity waves are observed during the whole day. Without a mode detailed analysis leadind to increase uncertainties in the deviation , the positions which are indicated are estimated within 0.2 R

** Following a large burst

*** importance not well determined due to the proximity off the very strong other source

**** no flux measurements available

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[1] POSITIVE E-W AND S-N COORDINATES CORRESPOND TO THE N-W QUADRANT

[2] IMP1: FLUX< 5 SFU IMP2: 5< FLUX < 20 SFU IMP3: 20< FLUX <100 SFU
IMP4: 100< FLUX <300 SFU IMP5> 300 SFU

[3] E NOISE STORM IN PROGRESS AT THE BEGINNING OF THE NANÇAY OBSERVATIONS
D NOISE STORM IN PROGRESS AT THE END OF THE NANCAY OBSERVATIONS

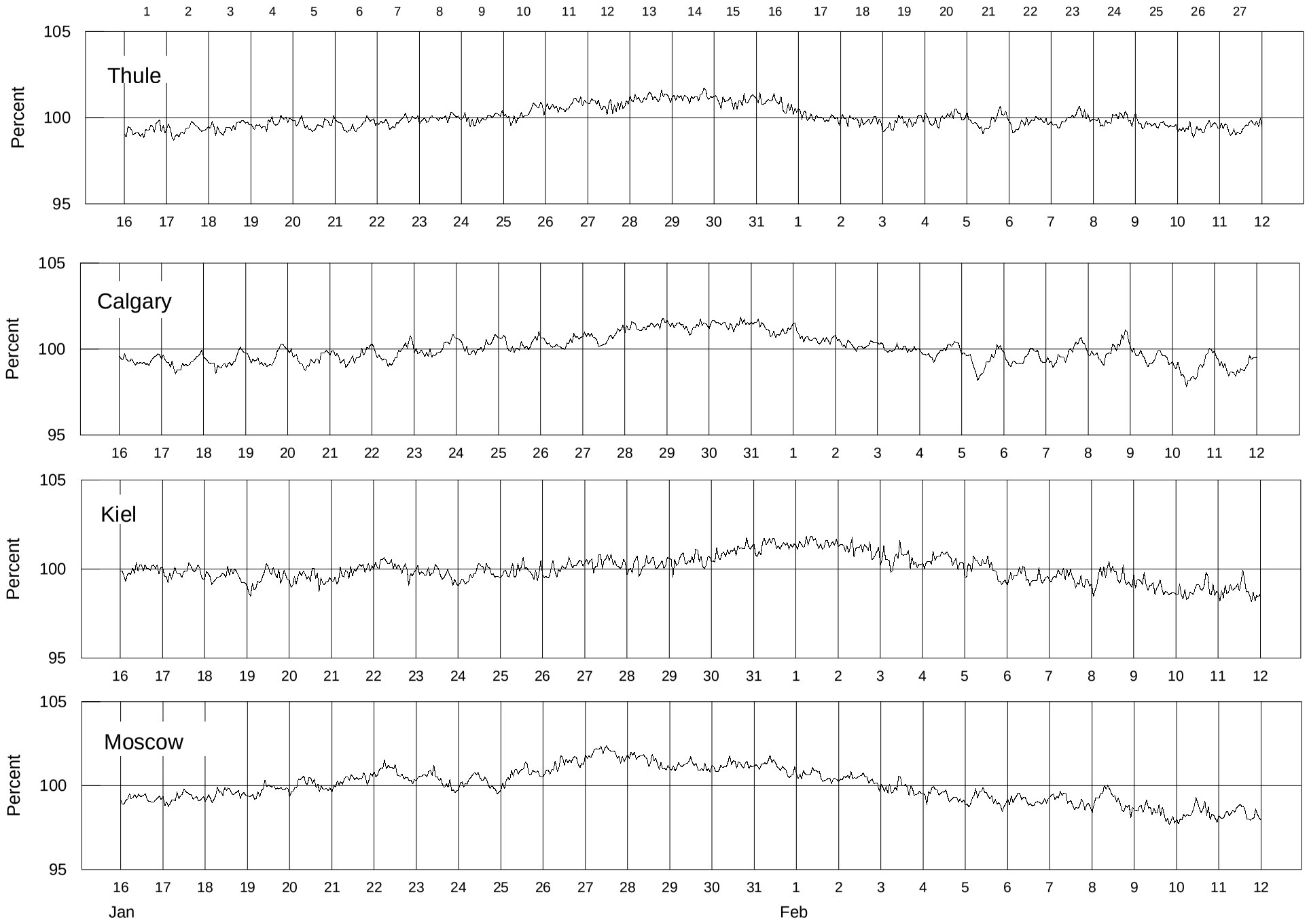
COSMIC RAY INDICES
(Neutron Monitor)
February 2008

Day	THULE Average (cts/h)/100	CALGARY Average (cts/h)/300	KIEL Average (cts/h)/100	MOSCOW Average (cts/h)/64	CLIMAX Average (cts/h)/100	BEIJING Average (cts/h)/256	HALEAKALA Average (cts/h)/1000
1	4565.4	4025.7	6407.4	9509.4		2098.4	
2	4557.4	4010.2	6388.5	9492.9		2097.5	
3	4550.5	4000.8	6351.0	9438.9		2090.7	
4	4563.7	3995.2	6349.7	9400.1		2089.1	
5	4556.0	3973.3	6316.2	9377.7		2086.5	
6	4549.9	3977.3	6287.6	9370.7		2089.8	
7	4561.8	3989.5	6283.1	9369.0	data	2096.5	data
8	4559.5	3997.5	6286.6	9373.5	not	2099.4	not
9	4546.6	3981.3	6253.9	9305.2	available	2085.1	available
10	4536.0	3954.5	6241.3	9298.5		2078.9	
11	4538.5	3960.0	6239.2	9298.4		2094.3	
12	4536.3	3952.0	6242.4	9325.3		2090.2	
13	4530.0	3958.5	6252.2	9380.7		2087.5	
14	4539.8	3966.8	6263.2	9477.1		2085.5	
15	4550.3	3972.5	6289.1	9508.0		2088.0	
16	4553.7	3982.8	6299.0	9495.5		2086.1	
17	4555.1	3989.7	6298.3	9517.1		2086.1	
18	4548.7	3988.3	6303.3	9561.4		2081.3	
19	4550.0	3985.8	6312.0	9570.0		2064.8	
20	4566.5	4000.0	6319.2	9546.3		2067.6	
21	4579.5	4012.8	6330.4	9543.8		2077.3	
22	4595.8	4017.0	6324.3	9564.6		2085.7	
23	4590.7	4026.3	6334.2	9624.9		2085.9	
24	4596.6	4032.5	6337.1	9571.6		2096.5	
25	4576.7	4031.3	6339.6	9553.1		2096.3	
26	4585.1	4023.2	6349.3	9558.9		2094.7	
27	4602.8	4023.3	6360.0	9570.8		2089.3	
28	4578.1	3999.5	6336.6	9553.1		2093.8	
29	4551.8	3978.8	6311.8	9518.5		2083.0	
30							
31							
Mean	4561.0	3993.3	6310.6	9471.6		2087.8	

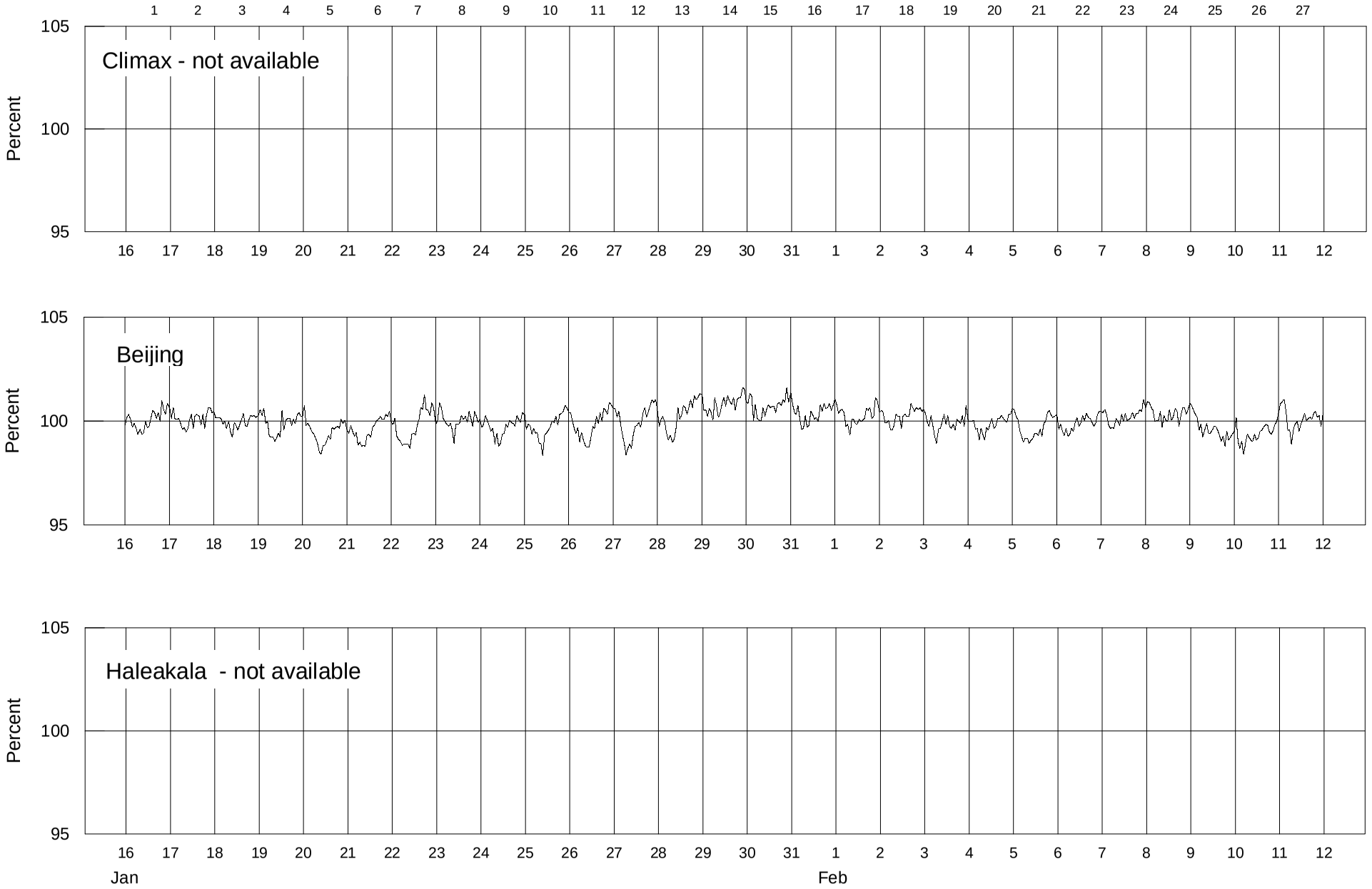
For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours, and for Haleakala, whenever the sum of all three sections falls below 60 hours.

COSMIC RAY INDICES
(Neutron Monitor)

Bartels Rotation 2381 - Beginning 16 Jan 2008

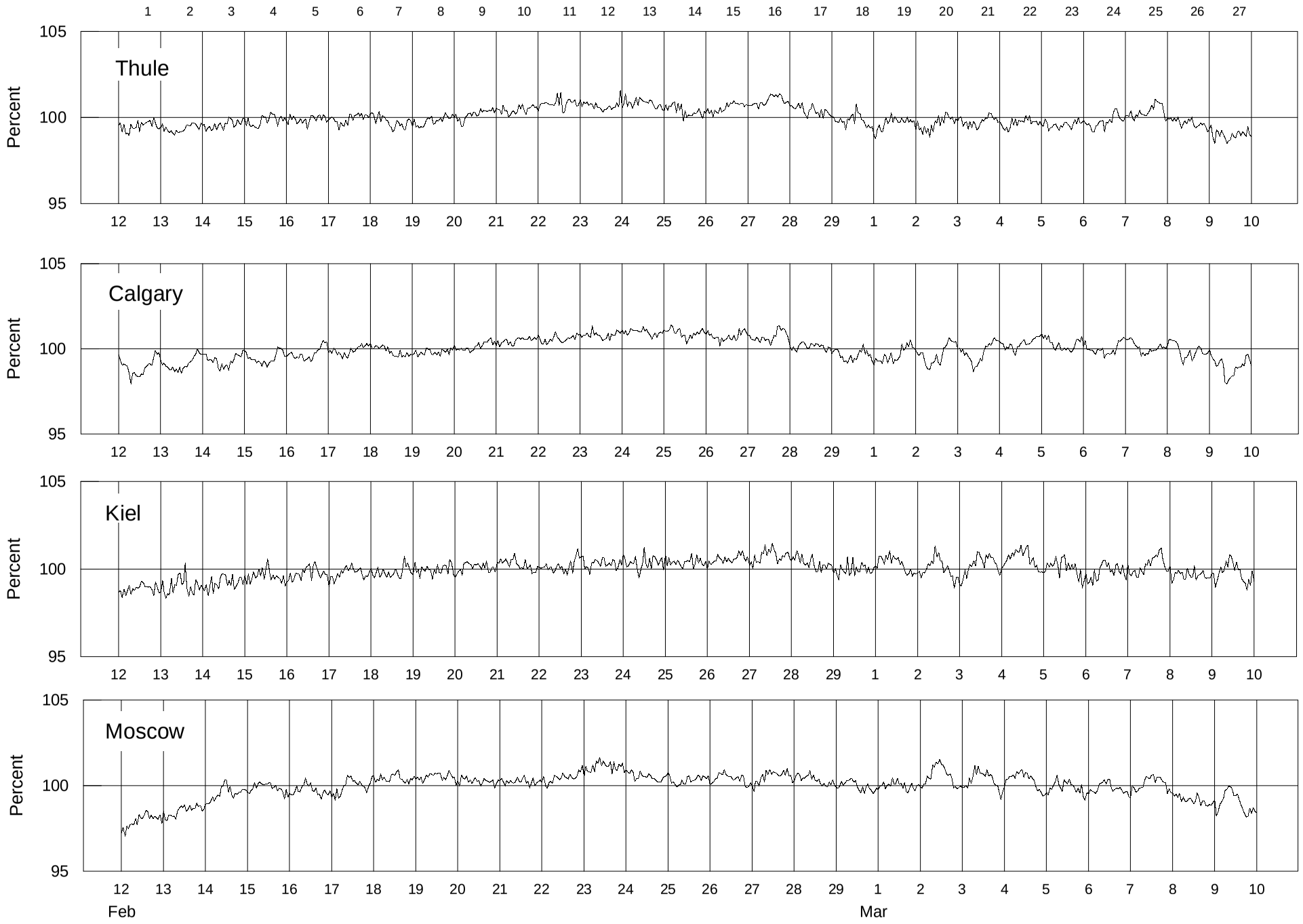


COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2381 - Beginning 16 Jan 2008

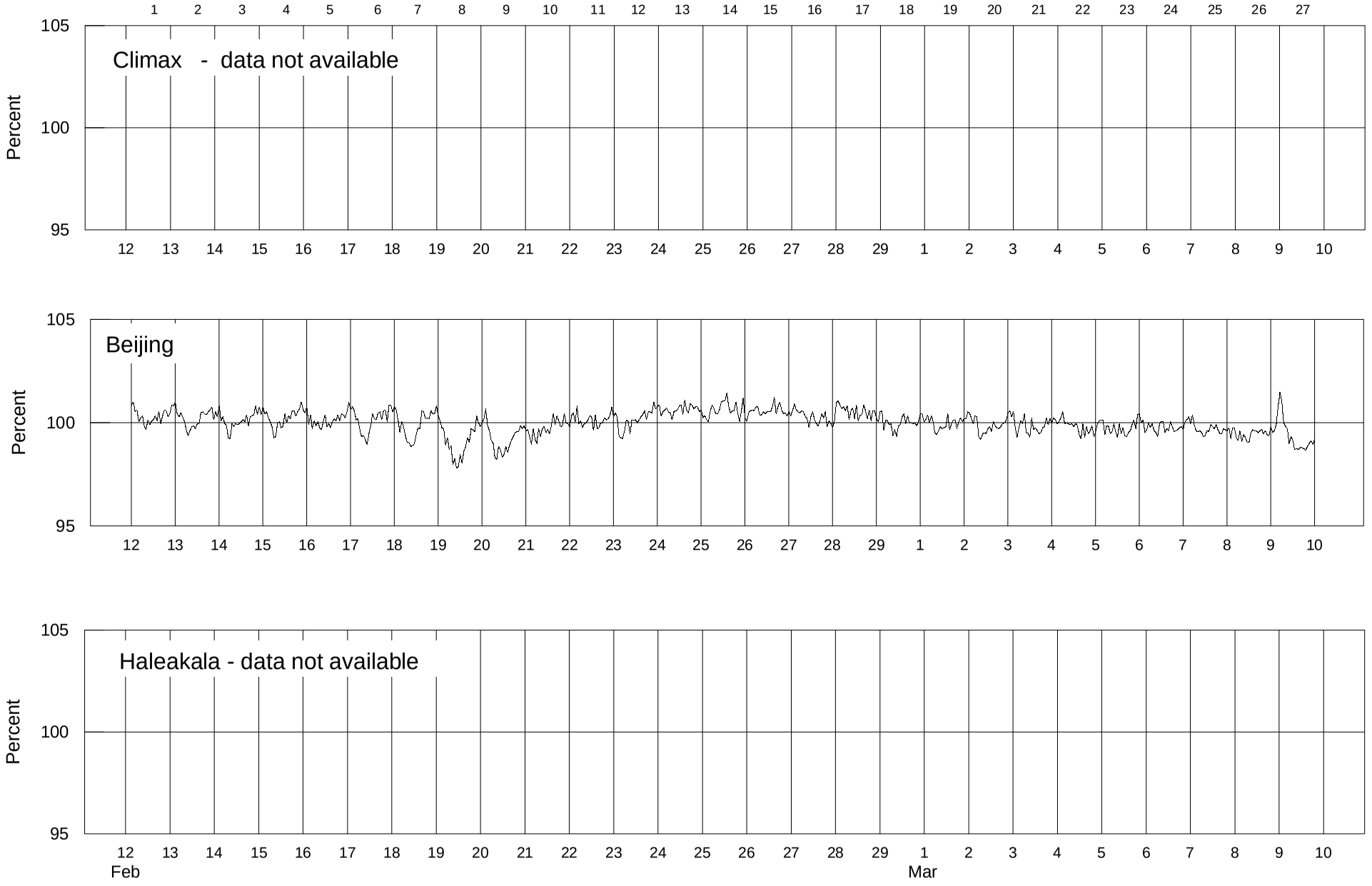


COSMIC RAY INDICES
(Neutron Monitor)

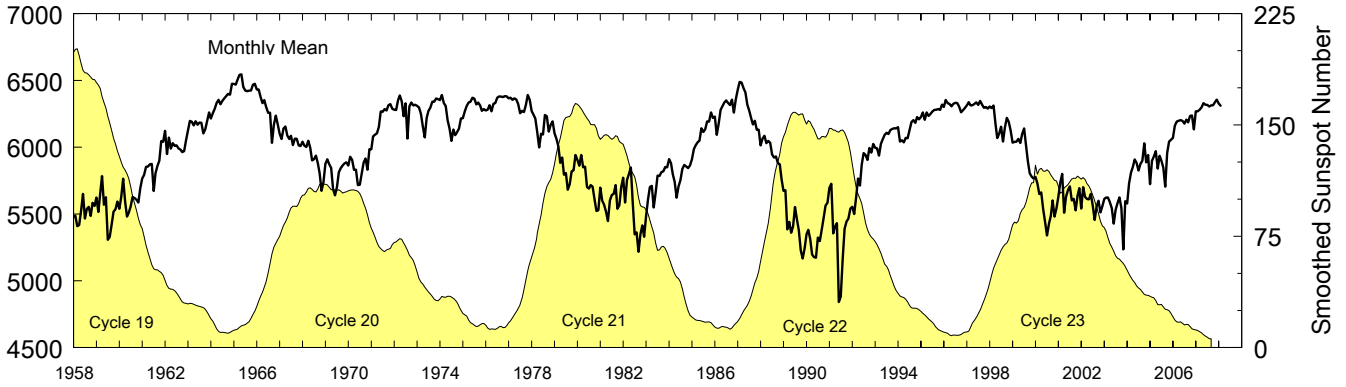
Bartels Rotation 2382 - Beginning 12 Feb 2008



COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2382 - Beginning 12 Feb 2008



Kiel Neutron Monitor Pressure-Corrected Values
Jan 1958 - Feb 2008



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1958	5481	5488	5409	5417	5523	5651	5466	5538	5553	5485	5584	5561	5513
1959	5623	5515	5659	5783	5569	5625	5307	5328	5420	5518	5536	5593	5540
1960	5539	5628	5764	5596	5480	5509	5557	5628	5620	5607	5586	5692	5601
1961	5766	5793	5853	5856	5872	5874	5672	5804	5859	5898	6046	6041	5861
1962	6122	5949	6072	5989	6030	6010	6013	5991	5982	5963	5971	6052	6012
1963	6125	6197	6191	6163	6194	6168	6185	6182	6103	6133	6197	6260	6175
1964	6215	6253	6287	6331	6355	6321	6347	6366	6383	6399	6393	6475	6344
1965	6474	6469	6506	6542	6545	6451	6424	6420	6423	6424	6467	6475	6468
1966	6433	6432	6375	6330	6353	6300	6258	6258	6033	6168	6236	6172	6279
1967	6101	6061	6139	6155	6088	6061	6086	6016	6064	6063	6014	6009	6071
1968	6041	6011	6001	6048	5997	5901	5910	5937	5878	5805	5673	5739	5912
1969	5876	5909	5872	5845	5686	5640	5700	5812	5843	5864	5879	5887	5818
1970	5863	5928	5906	5830	5831	5716	5719	5803	5885	5915	5832	5985	5851
1971	5985	6081	6094	6103	6151	6268	6265	6286	6275	6314	6322	6288	6203
1972	6281	6278	6351	6387	6344	6232	6328	6065	6306	6334	6313	6318	6295
1973	6309	6298	6250	6155	6074	6220	6271	6296	6341	6340	6365	6360	6273
1974	6353	6391	6331	6308	6201	6139	6047	6132	6090	6113	6139	6215	6205
1975	6217	6267	6308	6334	6341	6370	6363	6320	6334	6313	6272	6286	6310
1976	6275	6281	6314	6269	6325	6331	6370	6380	6379	6375	6383	6380	6339
1977	6366	6371	6355	6366	6357	6322	6254	6272	6263	6317	6391	6355	6332
1978	6271	6242	6215	6113	5998	6101	6095	6241	6232	6117	6167	6193	6165
1979	6104	6063	6006	5883	5923	5794	5806	5682	5723	5820	5827	5942	5881
1980	5905	5862	5942	5850	5854	5702	5690	5717	5704	5611	5522	5528	5741
1981	5697	5600	5569	5517	5447	5600	5642	5650	5717	5539	5564	5702	5604
1982	5772	5586	5755	5799	5848	5582	5347	5362	5217	5349	5414	5329	5530
1983	5481	5606	5702	5711	5549	5659	5787	5785	5814	5820	5852	5849	5718
1984	5911	5880	5799	5740	5622	5706	5753	5837	5867	5856	5844	5864	5807
1985	5911	5986	6016	6038	6049	6142	6114	6135	6193	6192	6260	6220	6105
1986	6229	6093	6176	6280	6308	6336	6350	6331	6315	6356	6259	6359	6283
1987	6429	6489	6484	6443	6410	6319	6273	6217	6171	6198	6131	6131	6308
1988	6013	6064	6085	6030	6047	6033	5945	5922	5931	5880	5872	5761	5965
1989	5673	5678	5385	5441	5360	5407	5552	5460	5378	5228	5167	5241	5414
1990	5348	5381	5313	5197	5177	5173	5324	5297	5382	5471	5563	5584	5351
1991	5696	5726	5355	5405	5431	4841	4882	5162	5390	5443	5466	5540	5361
1992	5553	5500	5624	5766	5713	5869	5956	5942	5905	5994	5960	6024	5817
1993	5996	5992	5937	6026	6061	6094	6108	6099	6129	6137	6142	6141	6072
1994	6150	6042	6052	6067	6070	6068	6129	6189	6203	6183	6226	6209	6132
1995	6225	6260	6205	6260	6234	6250	6267	6279	6281	6285	6279	6319	6262
1996	6301	6354	6330	6324	6306	6325	6332	6331	6303	6262	6277	6294	6312
1997	6313	6337	6313	6314	6324	6336	6317	6347	6319	6295	6301	6289	6317
1998	6305	6293	6312	6177	6069	6101	6154	6042	6149	6220	6190	6124	6178
1999	6034	6040	6041	6062	6032	6100	6140	6023	5898	5805	5780	5765	5977
2000	5778	5729	5650	5661	5537	5441	5339	5425	5487	5602	5481	5542	5556
2001	5629	5736	5800	5509	5631	5678	5707	5602	5614	5527	5637	5694	5647
2002	5540	5701	5628	5613	5610	5651	5562	5455	5556	5599	5512	5558	5582
2003	5613	5624	5624	5588	5543	5428	5532	5582	5624	5544	5235	5595	5544
2004	5579	5730	5810	5854	5908	5882	5856	5874	5898	6029	5887	5941	5854
2005	5723	5898	5931	5970	5840	5936	5899	5847	5705	5956	6042	6056	5900
2006	6070	6161	6192	6198	6202	6197	6176	6206	6186	6234	6238	6133	6183
2007	6270	6268	6281	6298	6330	6317	6316	6304	6313	6314	6336	6357	6309
2008	6327	6311											6319

Multiply table entries by 100 to obtain hourly counting rate. Kiel, Germany: N54, E10, Alt= 54 m, Cutoff Rigidity= 2.32GV.

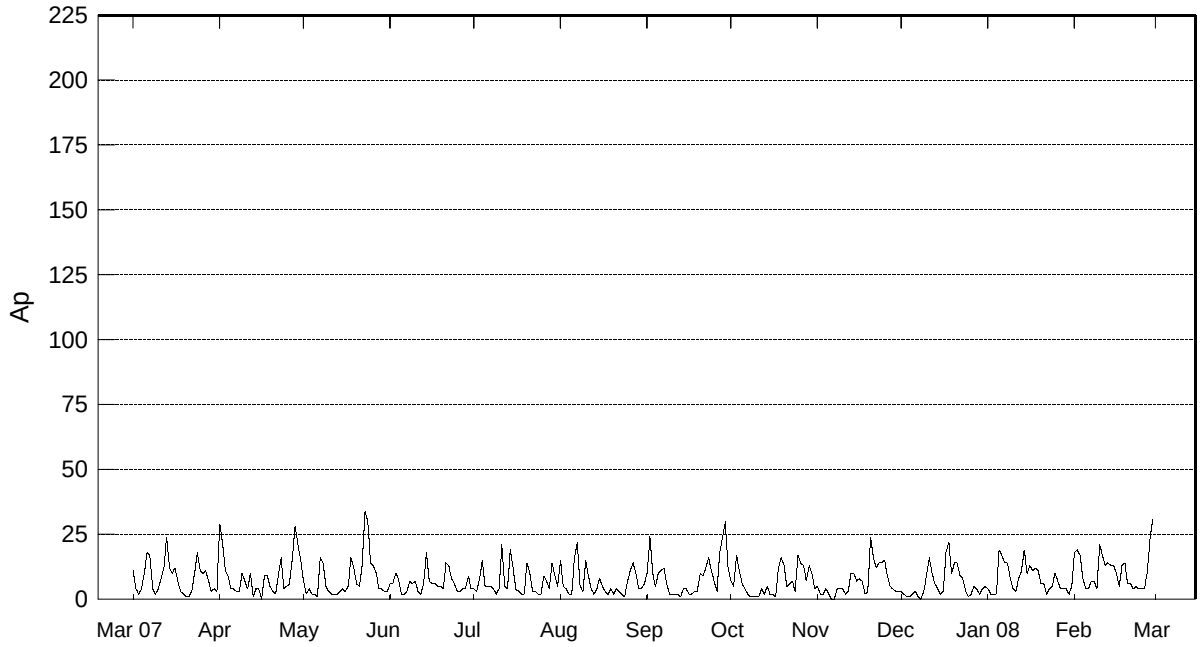
Geomagnetic Activity Indices

FEBRUARY 2008

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	Am	aa Provisional N	S	M	
1	D5*	3+	2+	3+	3-	2-	3+	4+	4+	25+	18	1.0	3-	2o	3o	3o	2-	3+	4+	4o	33	46	28	31	43	
2	D4*	4+	5-	3	2	3+	2+	3+	3	26	19	1.0	3+	4o	2+	2-	3+	2+	3o	3o	30	36	26	31	31	
3		3	3	3+	3+	2+	3+	4-	3+	25+	17	0.9	3-	3-	3-	3+	2+	3+	3+	3o	28	34	35	30	40	
4		3-	3-	2	2	1	1+	2+	2	16	8	0.4	2+	2-	1+	3-	2-	2-	2+	2o	16	19	18	18	19	
5	Q6	2	2	0	0+	1	1+	1+	0+	8+	4	0.1	1+	1o	0+	0+	2-	2-	1+	0+	7	7	11	8	11	CC
6	Q7	0	0+	1-	0+	1	1+	2+	2	8	4	0.1	0o	0+	1-	0+	1+	2-	2+	2o	8	13	9	5	17	CC
7		3	2+	0	0	0+	2+	1+	3	12+	7	0.3	2+	2o	0+	0+	0+	2+	1+	3o	12	14	13	10	17	K
8		3+	1+	1+	1-	1-	1	2	2+	13-	7	0.3	2+	1o	1o	1+	1+	1+	2o	2o	11	14	9	12	11	CK
9	Q5	1	0+	0	1-	2	1	2-	2-	8+	4	0.1	1+	0+	0o	1o	2+	1+	2-	2-	8	9	11	6	14	C
10	D3	0+	3-	3	4-	4+	5-	3+	4	26	21	1.1	1-	2+	3-	3o	4+	4+	3+	4-	36	45	41	28	59	
11		3+	4	3-	4-	3+	3+	2+	3-	25+	17	0.9	3+	3o	2+	4-	3+	3o	3-	2+	29	33	27	32	28	
12		3-	3	3-	3-	3	3-	3-	3-	22	13	0.7	2+	3-	2+	3-	3+	3-	3o	2+	23	33	21	23	31	
13		3-	3-	4-	2	4-	3+	2+	2-	22	14	0.8	2+	2+	3o	2+	4-	3-	2+	1+	23	27	21	22	26	
14		2+	2	2+	2	3	1+	4+	4-	21	13	0.8	2-	1+	2o	2o	3o	1+	4-	3o	22	32	19	15	36	
15		2	3	3	3+	3+	3	2	2	22-	13	0.7	2o	2+	3-	3o	3+	3-	2+	2-	22	26	25	24	27	
16		3	3+	2+	2	3-	1	3-	0	17	10	0.5	2+	3-	2o	2+	2+	1+	2+	0+	16	21	15	20	16	
17	Q9	0+	2	2	2	2-	1-	1	1+	11	5	0.2	1-	2-	2-	2o	2-	0+	1o	1o	9	10	10	10	10	CK
18		1-	1	2	3	4-	3+	3	3+	20	13	0.7	1o	1o	2-	3-	4-	3o	3-	3+	23	24	20	14	30	
19		3+	3	4-	3-	3-	3-	3-	1+	22	14	0.8	3o	2+	3o	2+	3-	3-	2+	2-	22	29	21	26	24	
20		1+	3	2	1+	1+	1+	0+	1	12-	6	0.3	1+	2o	2o	2-	1+	2-	0+	1o	10	11	13	15	10	C
21	Q10	1-	1-	1+	2-	2+	2+	2-	1-	11+	6	0.2	1-	1-	1o	2o	3-	3-	2-	1-	12	11	15	8	18	KC
22	Q3	1-	1	2-	1	1	1-	0+	1	7+	4	0.1	1-	1o	2o	1+	2-	1-	0+	1+	8	6	8	8	7	CC
23	Q8	0+	1-	1	1-	1	2	2+	2	10	5	0.2	1-	1-	1o	1o	2-	2+	2+	2-	10	11	13	7	18	CC
24	Q1	1	1-	1-	1-	1-	1	1	1+	7	4	0.1	1o	1-	1-	1+	1o	1+	1+	1+	7	8	7	7	8	C
25	Q2	1+	1+	1	1+	0+	1-	0+	0+	7-	4	0.1	1o	1+	1o	2o	0+	1-	1-	1-	6	6	37	21	22	
26	Q4	0+	2-	1-	1-	1	1	1+	1+	8	4	0.1	1-	1+	1-	1o	1+	1+	2-	1+	8	8	37	20	26	
27		2	2	1	1	2-	3-	4+	3-	17+	10	0.6	2-	2-	1-	1o	2o	3-	4-	3-	18	25	37	23	40	
28	D2	4-	3+	3-	3+	3	4+	4+	4+	29	23	1.1	3+	3o	3-	3+	3-	4+	4+	4+	43	50	37	32	56	
29	D1	4+	3+	4	4-	3	5+	4+	5	33	31	1.3	4-	3o	3+	4-	3o	5o	4-	5o	51	68	41	35	74	
Mean											11	0.53									19.0	23.4	21.7	22.5		

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-	3o	3o	2-	4-	4+	4-	33	2+	2+	3-	3o	2-	3+	4o	4o	32	69.0	11	10	13	
2	3+	4-	3-	2o	3+	3-	3o	3-	30	3+	4o	2o	1+	3+	2+	3-	3+	29	69.8	9	4	13	
3	3-	2+	3o	3+	3-	3+	3+	3-	28	3-	3-	3-	3o	2+	3+	3+	3o	28	---	9	7	---	
4	2+	2o	1+	3-	2-	2-	2+	2o	15	3-	2-	1+	3-	1+	2-	3-	2o	16	69.3	8	3	13	
5	1+	1+	0+	0+	2o	2-	1+	0+	8	1+	1o	1-	0+	2-	2-	1o	0+	7	68.5	0	1	12	
6	0o	0+	0+	0o	1o	2-	3-	2o	8	0+	0+	1o	1-	1+	2-	2+	2o	9	69.6	0	0	13	
7	2+	2-	0o	0o	0+	3-	1+	3-	11	2+	2+	0+	0+	0+	2+	1+	3+	13	68.9	0	0	12	
8	2+	1-	1-	1+	1o	1o	2-	2-	10	2+	1+	1+	1+	1+	1+	2o	2o	12	69.0	0	0	13	
9	1-	0o	0o	1o	3-	1+	2-	1+	9	1+	0+	0+	1o	2-	1o	2-	2-	8	70.3	0	2	14	
10	0+	2o	3-	3o	4+	5-	4-	3+	37	1o	3-	3o	3+	4o	4-	3o	4-	34	70.7	0	1	14	
11	3+	3+	2+	4o	4-	3o	3-	2+	33	3+	3-	2o	3+	3-	3-	2+	2o	24	70.2	0	0	14	
12	2o	3-	3-	3o	4-	3-	3o	3-	26	3-	3-	2o	2+	3o	2+	3-	2o	20	70.3	0	0	14	
13	2+	2o	3+	2+	4o	3o	2+	1+	26	3-	2+	3-	2o	3+	2+	2o	2-	20	68.7	0	0	12	
14	2-	1+	2+	2o	3+	2-	4o	3o	24	2o	2-	2o	2-	3-	1+	4-	3-	19	68.8	0	0	12	
15	2o	3-	3-	3+	4-	3-	2+	1+	23	2o	2o	3-	3o	3+	2+	2+	2o	21	68.0	0	0	11	
16	3-	3-	2+	3-	3-	1+	3-	0+	19	2+	2+	2-	2o	2o	1+	2o	1-	14	68.6	0	0	12	
17	0o	2-	2o	2+	2o	1-	1-	1o	10	1+	2-	2-	2-	2-	0+	1+	1+	9	69.4	0	0	13	
18	0+	1-	2-	3o	4o	3o	3-	3+	25	2-	1o	1+	3-	3o	3-	3-	3+	21	69.5	0	0	13	
19	3o	2+	3o	2o	3o	3-	2+	1+	22	3o	2o	3+	3-	2+	2+	3-	2-	22	70.0	0	0	14	
20	1o	2+	2o	2-	1+	2o	0+	1-	11	2-	2o	2o	1+	1+	1+	0+	1o	10	69.3	0	0	13	
21	0o	1-	1+	2o	3-	3-	2o	1-	12	1o	1o	1o	2-	2+	2+	2-	1o	11	70.3	0	0	14	
22	1-	1-	2+	2-	2-	1o	0+	1o	8	1o	1+	2o	1+	2-	0+	0+	2o	9	70.8	0	0	14	
23	0+	0+	1+	1-	1+	3-	2o	2-	9	1o	1o	1o	1o	2-	2o	3-	2-	11	70.1	0	0	14	
24	1o	1-	1-	1o	1o	1+	1+	1o	7	1o	1o	0+	1+	1o	1o	2-	1+	8	69.3	0	0	13	
25	1o	1-	1+	2o	0+	1-	0o	0o	5	1+	1+	1o	2o	0+	1-	1o	1o	8	69.9	8	5	13	
26	0o	1o	0o	0+	1+	1+	1+	1+	6	1o	1+	1o	1+	1+	1+	2-	1+	9	69.3	8	8	13	
27	2-	1+	1-	1o	2o	3o	4o	3-	19	2-	2o	1-	1o	2-	3-	4-	3-	18	69.4	8	5	13	
28	3+	3o	3-	4-	3o	4+	4o	4+	43	3+	3-	2+	3+	3-	4o	5-	5-	44	68.7	0	0	12	
29	4-	3o	3+	4-	3o	5+	4o	5-	55	4-	3-	3+	3+	3-	4+	3+	5+	47	68.5	0	0	12	
Mean									19.7									18.4	69.4	2.1	1.6	13.0	

Daily Average Indices Ap
Mar 2007 - Feb 2008



Day	Mar 07	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 08	Feb
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3	2	11	4	10	8	4	10	9	2	1	2	17
4	4	9	2	8	15	2	5	10	4	1	2	8
5	10	4	2	2	5	2	10	11	2	2	19	4
6	18	4	1	2	5	16	11	4	0	3	17	4
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8	4	3	14	7	4	5	6	1	4	0	14	7
9	2	10	5	6	2	3	2	1	4	3	8	4
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11	8	4	2	3	21	9	2	1	2	16	3	17
12	12	10	2	2	5	4	2	4	3	10	8	13
13	24	1	2	6	4	2	1	2	10	6	11	14
14	12	4	3	18	19	4	4	5	10	4	19	13
15	10	4	4	7	12	8	4	2	7	2	10	13
16	12	0	3	6	4	5	2	2	8	3	13	10
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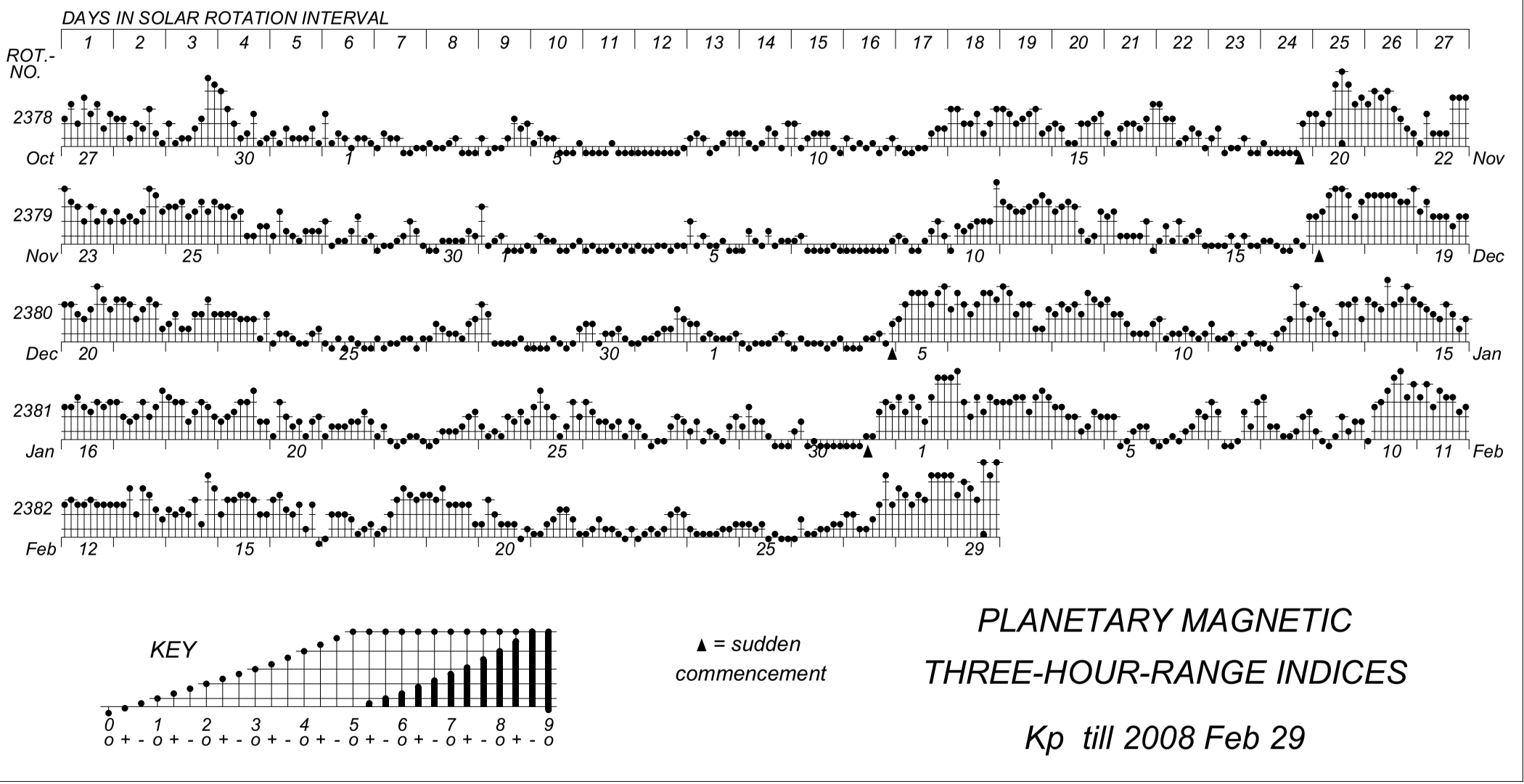
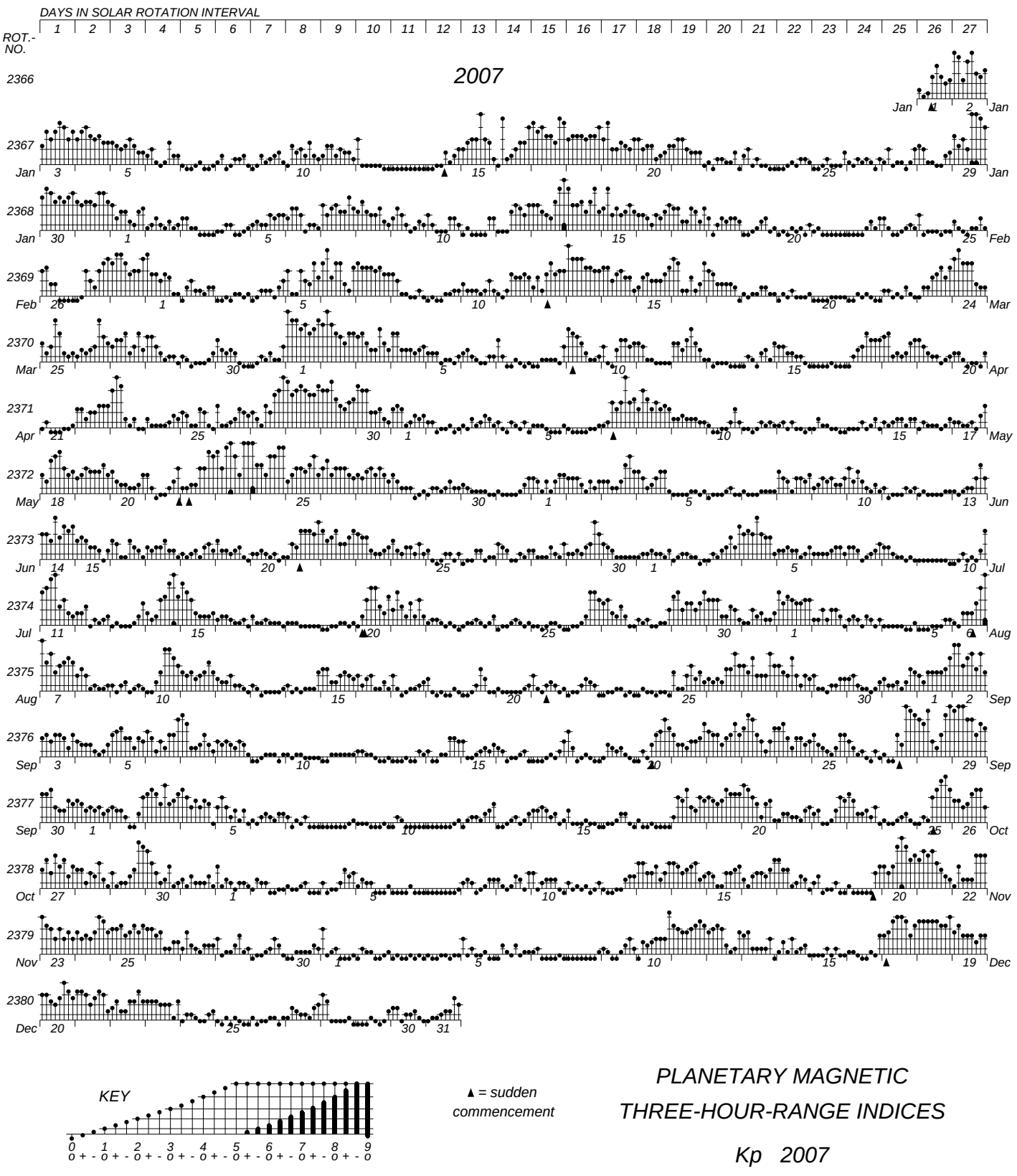
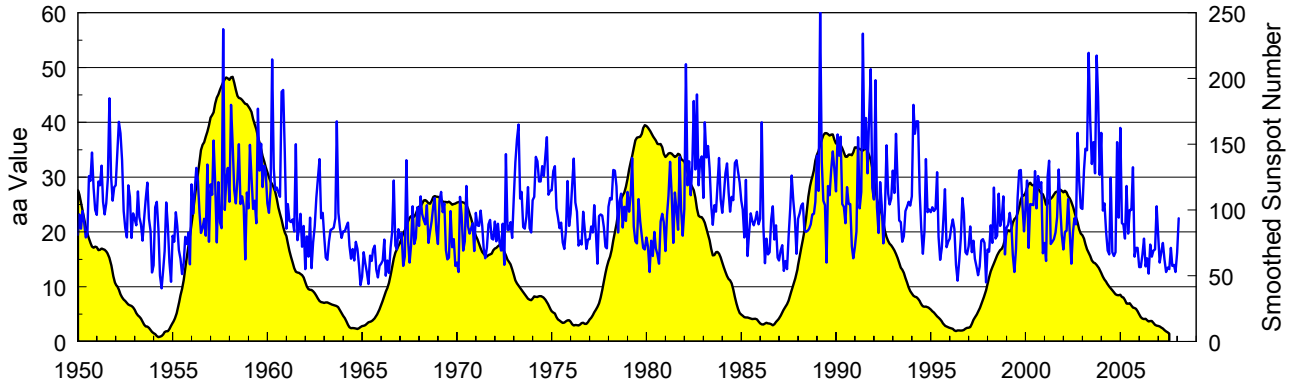
21	1	2	5	14	10	4	9	5	16	14	6	6
22	3	9	13	13	3	3	12	6	12	9	2	4
23	10	16	34	8	3	2	16	7	14	8	4	5
24	18	4	30	6	2	1	11	3	14	3	5	4
25	11	5	14	3	2	7	7	17	15	1	10	4
26	10	6	13	3	9	11	3	14	9	2	7	4
27	11	16	10	4	7	14	18	13	5	5	4	10
28	7	28	4	4	4	10	24	7	4	4	4	23
29	3	21	4	9	14	4	30	13	3	2	4	31
30	4	15	3	4	9	4	12	10	3	4	2	
31	3		3		5	6		4		5	5	
Mean	8	9	8	6	7	6	9	7	7	6	8	11


DAYS IN SOLAR ROTATION INTERVAL
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
ROT.-NO.
2378
Oct 27 30 1 5 10 15 20 22 Nov
2379
Nov 23 25 30 1 5 10 15 19 Dec
2380
Dec 20 25 30 1 5 10 15 Jan
2381
Jan 16 20 25 30 1 5 10 11 Feb
2382
Feb 12 15 20 25 29
KEY
0 1 2 3 4 5 6 7 8 9
o + - o + - o + - o + - o + - o + - o + - o + - o + - o
▲ = sudden commencement
PLANETARY MAGNETIC
THREE-HOUR-RANGE INDICES
Kp till 2008 Feb 29


DAYS IN SOLAR ROTATION INTERVAL
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
ROT.-NO.
2007
2366
Jan 1 2 Jan
2367
Jan 3 5 10 15 20 25 29 Jan
2368
Jan 30 1 5 10 15 20 25 Feb
2369
Feb 26 1 5 10 15 20 24 Mar
2370
Mar 25 30 1 5 10 15 20 Apr
2371
Apr 21 25 30 1 5 10 15 17 May
2372
May 18 20 25 30 1 5 10 13 Jun
2373
Jun 14 15 20 25 30 1 5 10 Jul
2374
Jul 11 15 20 25 30 1 5 6 Aug
2375
Aug 7 10 15 20 25 30 1 2 Sep
2376
Sep 3 5 10 15 20 25 29 Sep
2377
Sep 30 1 5 10 15 20 25 26 Oct
2378
Oct 27 30 1 5 10 15 20 22 Nov
2379
Nov 23 25 30 1 5 10 15 19 Dec
2380
Dec 20 25 30 31
KEY
0 1 2 3 4 5 6 7 8 9
0 + - 0 + - 0 + - 0 + - 0 + - 0 + - 0 + - 0 + - 0
▲ = sudden commencement
PLANETARY MAGNETIC
THREE-HOUR-RANGE INDICES
Kp 2007

Monthly Mean aa Index Jan 1950 - Feb 2008



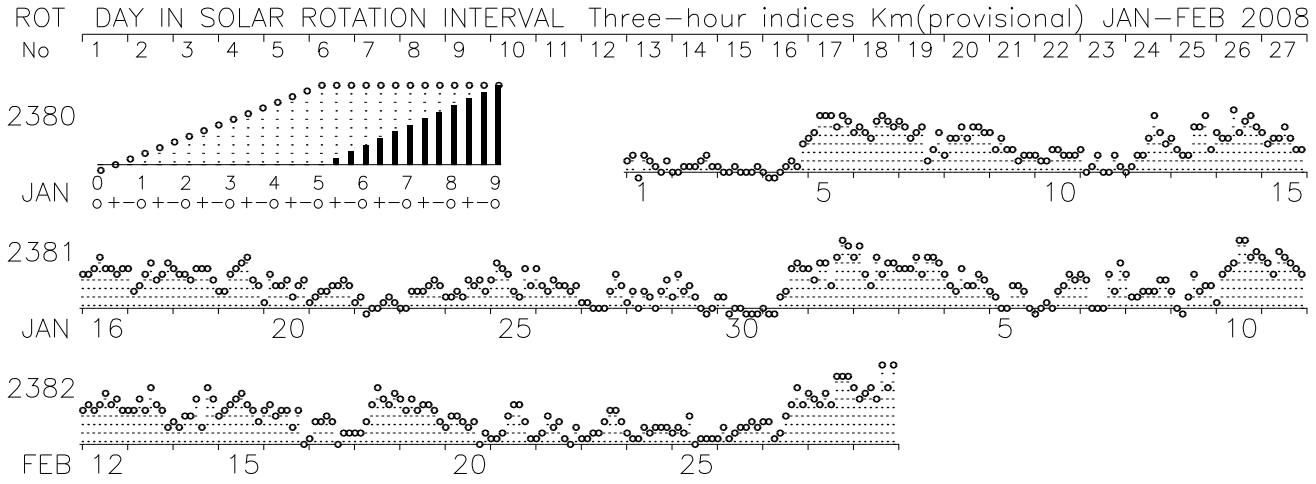
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1950	19.5	23.2	20.6	23.8	21.7	19.0	19.5	30.2	29.3	34.5	28.0	24.0	24.4
1951	23.1	29.2	28.5	32.1	25.5	23.2	25.2	29.7	44.4	30.3	25.7	28.2	28.8
1952	28.5	34.3	40.1	38.0	33.1	23.8	20.7	19.0	28.5	26.4	18.9	23.4	27.9
1953	22.3	21.2	27.4	22.7	21.4	18.4	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	40.2	40.2	27.2	20.6	16.0	20.2	33.3	23.6	24.1	29.4
1995	23.6	24.5	23.8	24.2	30.9	19.1	14.9	17.0	22.2	27.9	17.2	18.2	22.0
1996	18.8	20.8	22.3	20.5	14.0	11.1	14.7	18.8	26.2	23.5	16.3	15.9	18.6
1997	17.4	21.0	16.3	18.4	15.1	13.7	12.1	13.7	18.4	18.7	18.0	10.8	16.1
1998	16.8	16.4	21.2	18.0	28.1	18.8	19.3	27.0	21.1	22.4	26.5	15.9	21.0
1999	20.8	21.3	23.5	21.3	15.8	12.7	16.9	26.2	31.2	31.3	25.1	20.1	22.2
2000	24.2	29.4	17.1	25.1	25.0	24.9	31.1	24.3	30.2	28.1	29.1	16.1	25.4
2001	18.0	14.7	30.2	33.0	17.8	18.2	18.7	19.9	22.7	31.4	24.4	19.5	22.4
2002	16.8	20.0	20.2	26.0	19.9	14.2	19.9	22.5	21.4	38.1	29.3	24.4	22.7
2003	24.2	31.3	35.2	34.9	52.7	40.2	32.4	36.4	30.7	52.2	44.7	30.4	37.1
2004	38.1	23.9	25.2	20.1	16.6	15.9	29.9	16.3	15.6	16.3	36.4	22.6	23.1
2005	39.0	21.6	21.4	18.8	28.4	19.7	24.0	24.0	31.8	15.5	17.1	17.1	23.2
2006	13.6	13.6	15.8	18.8	13.7	15.2	12.4	17.7	15.5	16.6	16.8	24.7	16.2
2007	19.2	14.4	16.3	18.0	15.0	12.7	13.5	13.2	17.1	13.8	14.0	12.7	15.0
2008	16.2	22.5											19.4

PLANETARY GEOMAGNETIC ACTIVITY

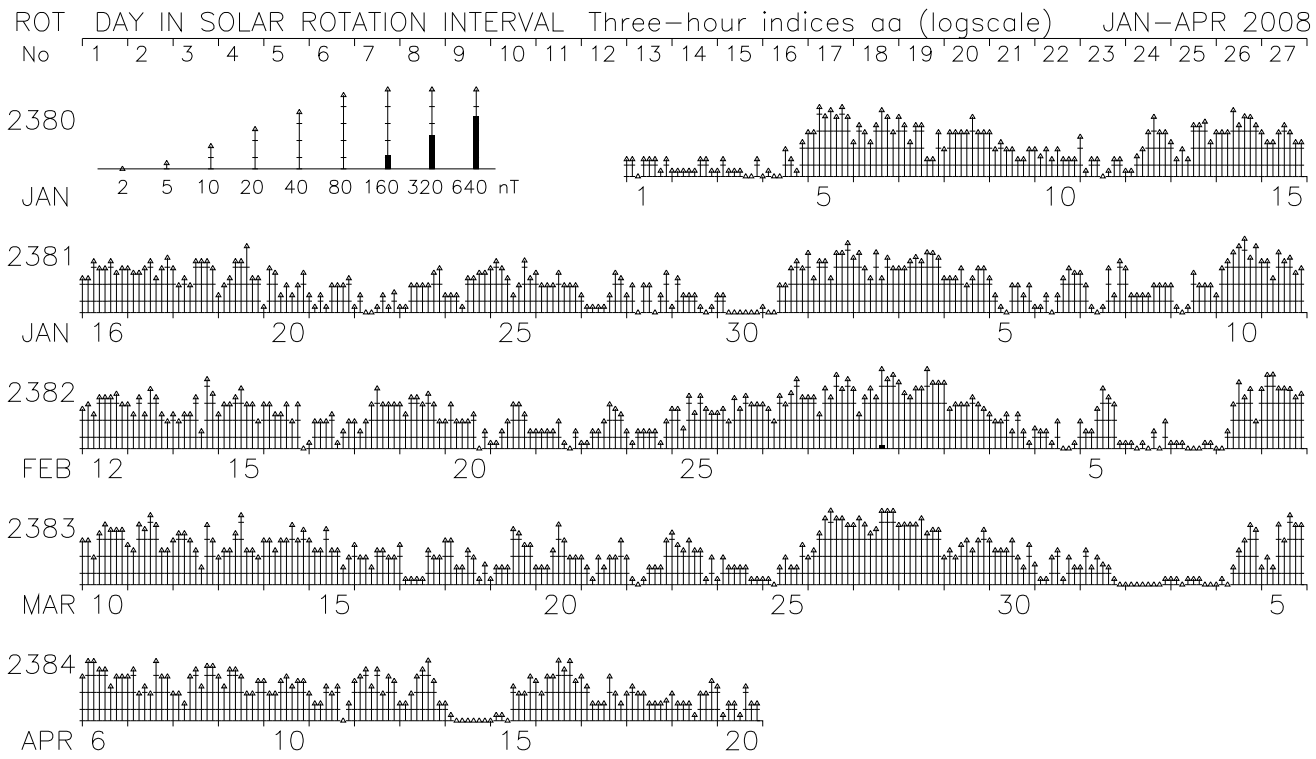
3-HOUR-RANGE INDICES Km AND aa BY 27-DAY SOLAR ROTATION INTERVAL

ISGI PUBLICATION OFFICE - EMail : ISGI.PUBOFF@cetp.ipsl.fr

CETP, 4 Avenue de Neptune, F-94107 Saint Maur des Fosses CEDEX - FRANCE



Indices Derivation at C.E.T.P.; Graph Prepared at ISGI Publication Office.



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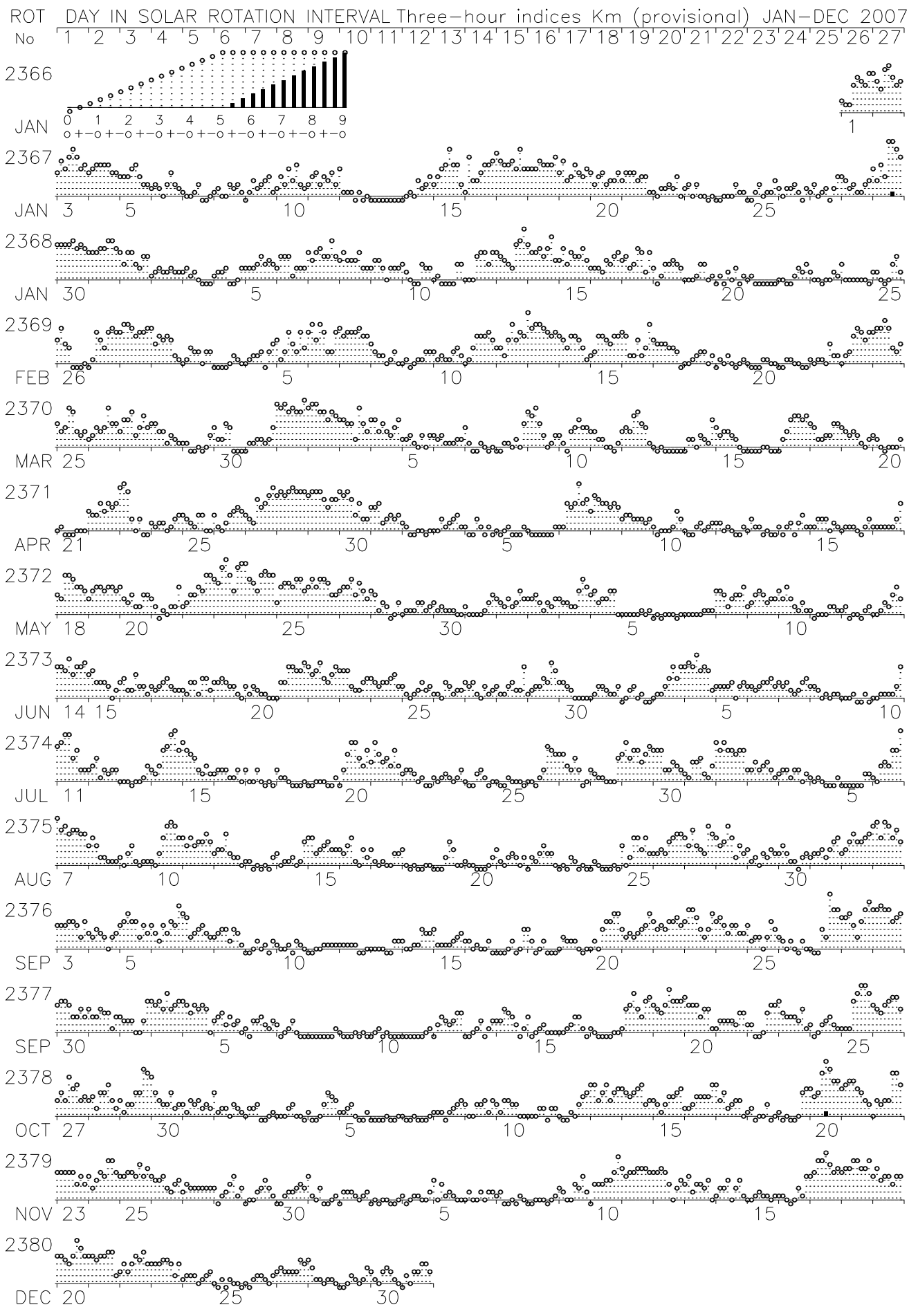
PLANETARY GEOMAGNETIC ACTIVITY – MUSICAL DIAGRAM OF Km 2007



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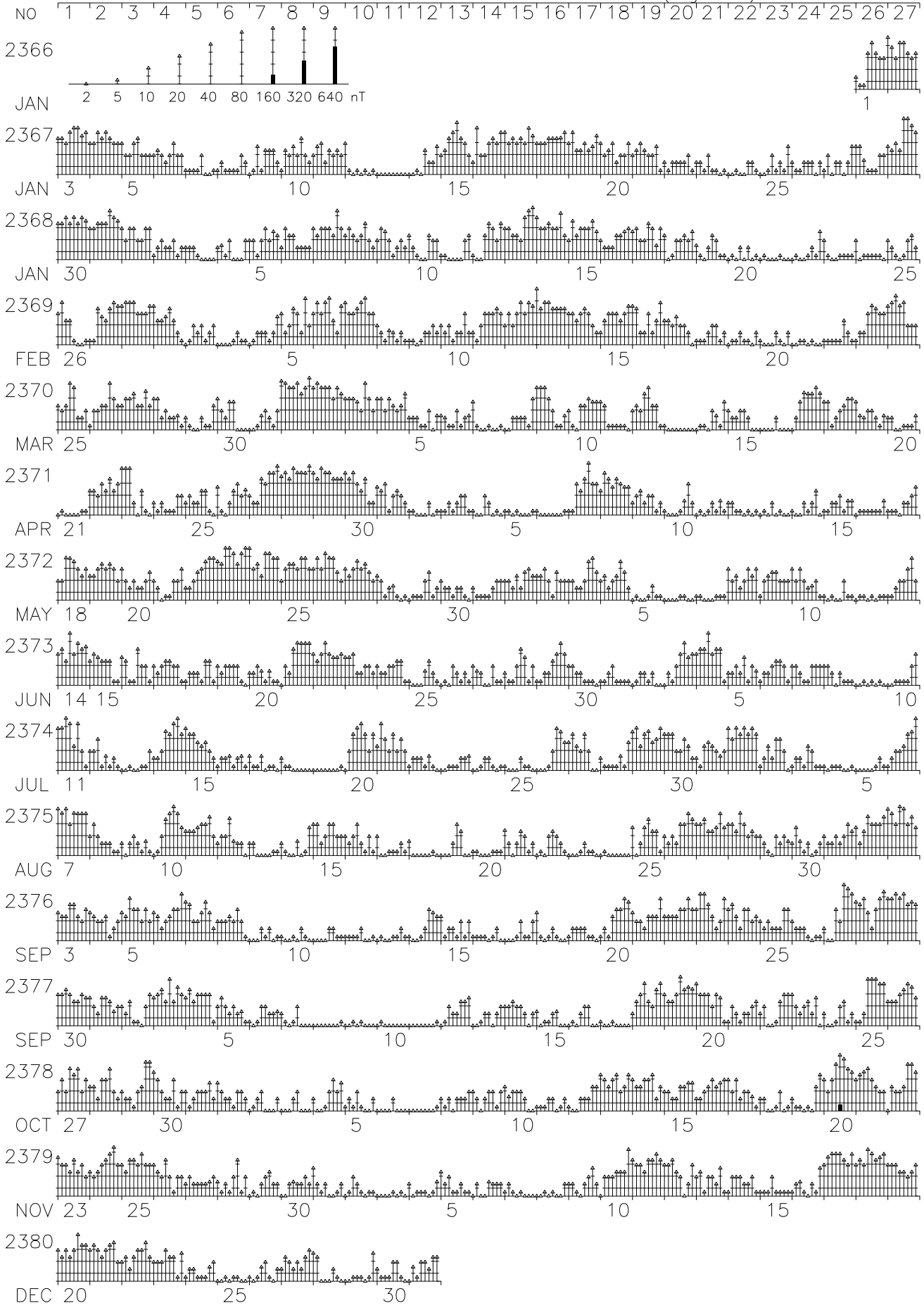
PLANETARY GEOMAGNETIC ACTIVITY — MUSICAL DIAGRAM OF aa 2007



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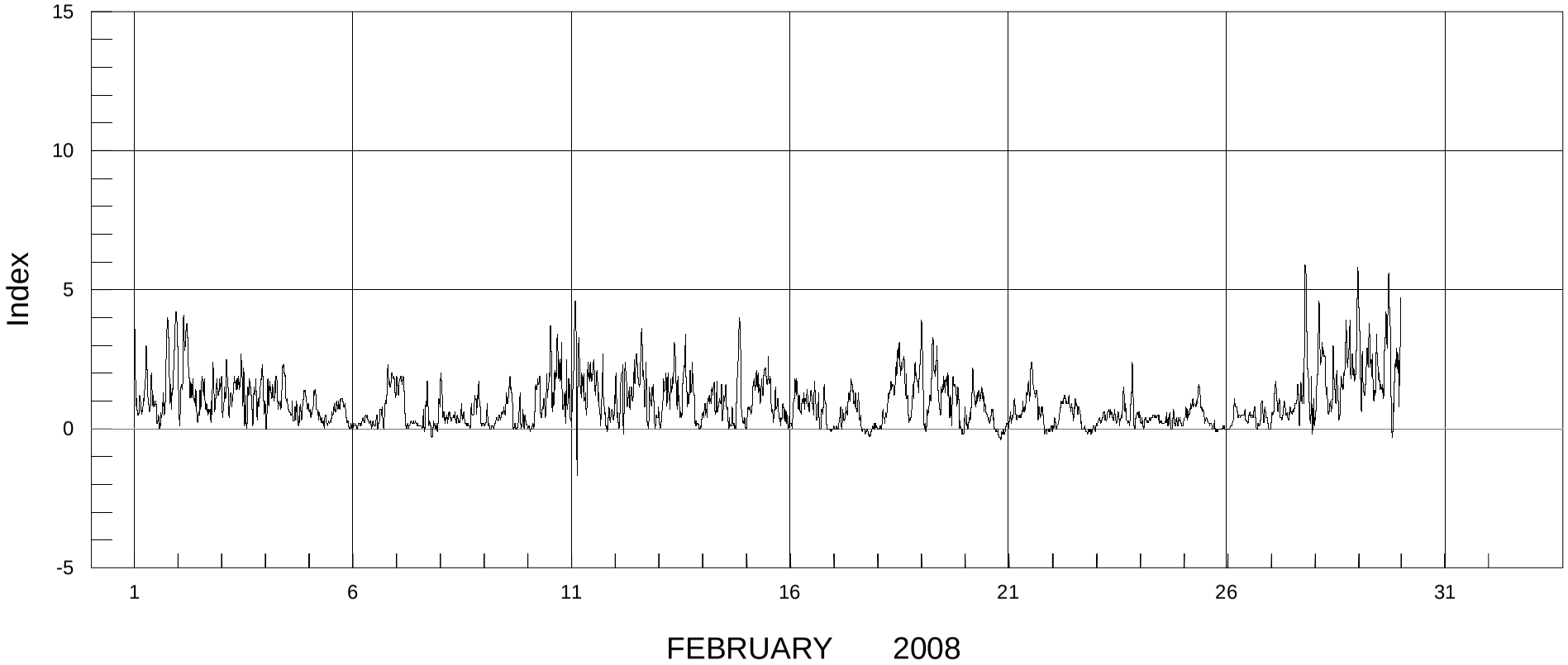
Polar Cap Index

Qaanaaq - Thule

WDC C1 for Geomagnetism, Copenhagen



Data Source: Geomagnetism and Space Physics
Danish Meteorological Institute

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

FEBRUARY 2007

Sta	Geomag Lat	Commencement Time Day	(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 Hour Day	(UT)
JAI	17.4N	01	0300	..	..	..	..		-	4	68	21	03	23
NGP	11.3N	01	0300	..	..	..	..		-	3	71	20	03	23
ABG	09.4N	01	0300	..	..	..	..	1(6)	5	3	74	27	11	22
HYB	07.6N	01	1200	..	..	..	..	2(5)	4	2	54	13	03	24
PND	02.0N	01	0300	..	..	..	..		-	3	83	41	03	23
TIR	00.6S	01	0300	..	..	..	..		-	3	104	50	03	23
JAI	17.4N	10	0300	..	..	..	..		-	5	119	14	11	22
NGP	11.3N	10	0300	..	..	..	..		-	4	116	15	11	22
ABG	09.4N	10	0300	..	..	..	..	10(4)	5	4	120	24	19	23
HYB	07.6N	10	0300	..	..	..	..	10(4)	5	4	121	17	11	23
PND	02.0N	10	0300	..	..	..	..		-	3	107	47	11	22
TIR	00.6S	10	0300	..	..	..	..		-	5	123	53	11	22
HYB	07.6N	12	1000	..	..	..	..	13(5)	4	3	77	11	13	22
HYB	07.6N	14	0600	..	..	..	..	14(7)	4	2	54	12	15	22
JAI	17.4N	18	0700	..	..	..	..		-	3	68	18	19	23
NGP	11.3N	18	0700	..	..	..	..		-	3	70	17	19	23
ABG	09.4N	18	0700	..	..	..	..	18(5,6,7,8)	4	3	69	23	01	02
HYB	07.6N	18	0700	..	..	..	..	19(6)	4	3	66	17	19	23
PND	02.0N	18	0700	..	..	..	..		-	2	70	34	19	23
TIR	00.6S	18	0700	..	..	..	..		-	3	106	32	19	23
JAI	17.4N	27	1430	..	..	..	..		-	4	72	19	01	02
NGP	11.3N	27	1430	..	..	..	..		-	3	87	19	01	02
ABG	09.4N	27	1430	..	..	..	..	28(6,7,8)	5	3	84	23	14	23
HYB	07.6N	27	1150	SC	- 0.2	- 9	- 5	28(6) 29(6)	5	3	96	13	01	24
PND	02.0N	27	1430	..	..	..	..		-	3	89	81	03	23
TIR	00.6S	27	1430	..	..	..	..		-	4	101	64	01	02

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

FEBRUARY 2008

Storm Sudden Commencements (SSC)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
			07	1817-1832	GUI
			16	0601-0611	GUI
			23	1106-1116	NAG

REPORTING OBSERVATORIES up to 03/04/2008):
NUR LER ESK NGK VAL HAD DOU BDV CLF HRB NAG MMB EBR SPT KAK KNY GUI HYB GNA CNB

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 ionospheric events, the name of the station is identified with a plus sign (+).

Note that we have included data of the Antartic Station LIVINGSTONE (62º 39' 44" S, 60º23' 41" W) -- Luis F.

Criterion on Provisional SSC data

From December 2002, we are giving as provisional SSC only the SSC reported by more than 4 observatories. This is a change with respect to the previous criterion according to which we used to give the SSC reported by more than 5 observatories. The change, pending IAGA confirmation, has been provisionally taken because of the decreasing number of reporting observatories in order to keep the homogeneity of the data. The idea is to keep the same minimum percentage of the observatories reporting an SSC, relative to the total number of reporting observatories, to be considered as a probable SSC.