



Solar-Geophysical Data prompt reports

Data for February and March 2007

Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

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NATIONAL OCEANIC AND
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NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL
DATA CENTER

BOULDER,
COLORADO



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Gregory W. Withee, Assistant Administrator

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Data for February and March 2007

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NATIONAL GEOPHYSICAL DATA CENTER

Christopher G. Fox, Director

Boulder, Colorado

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SOLAR-GEOPHYSICAL DATA

Number 752

(Issued in Two Parts)

Editor: Edward H. Erwin

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

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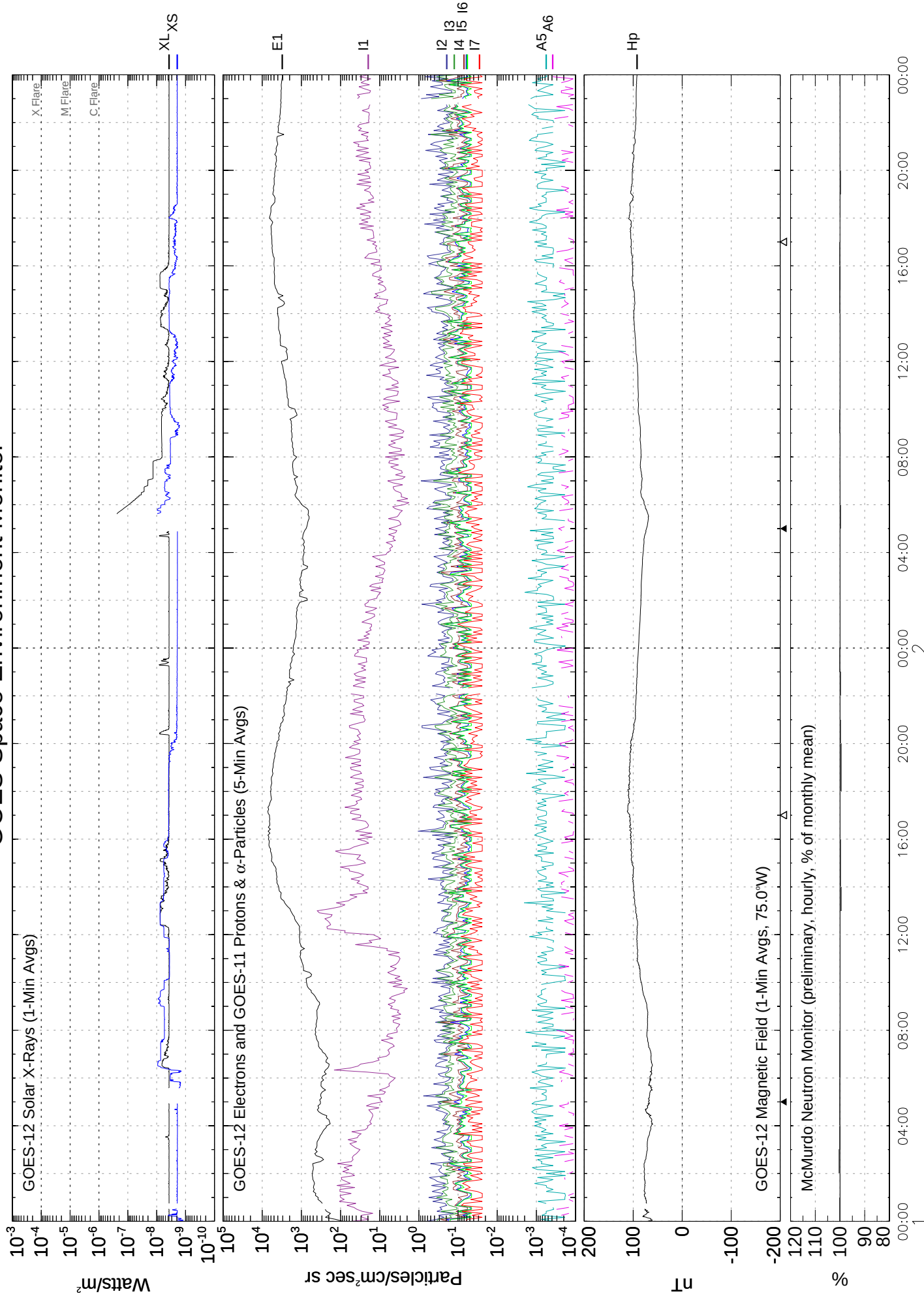
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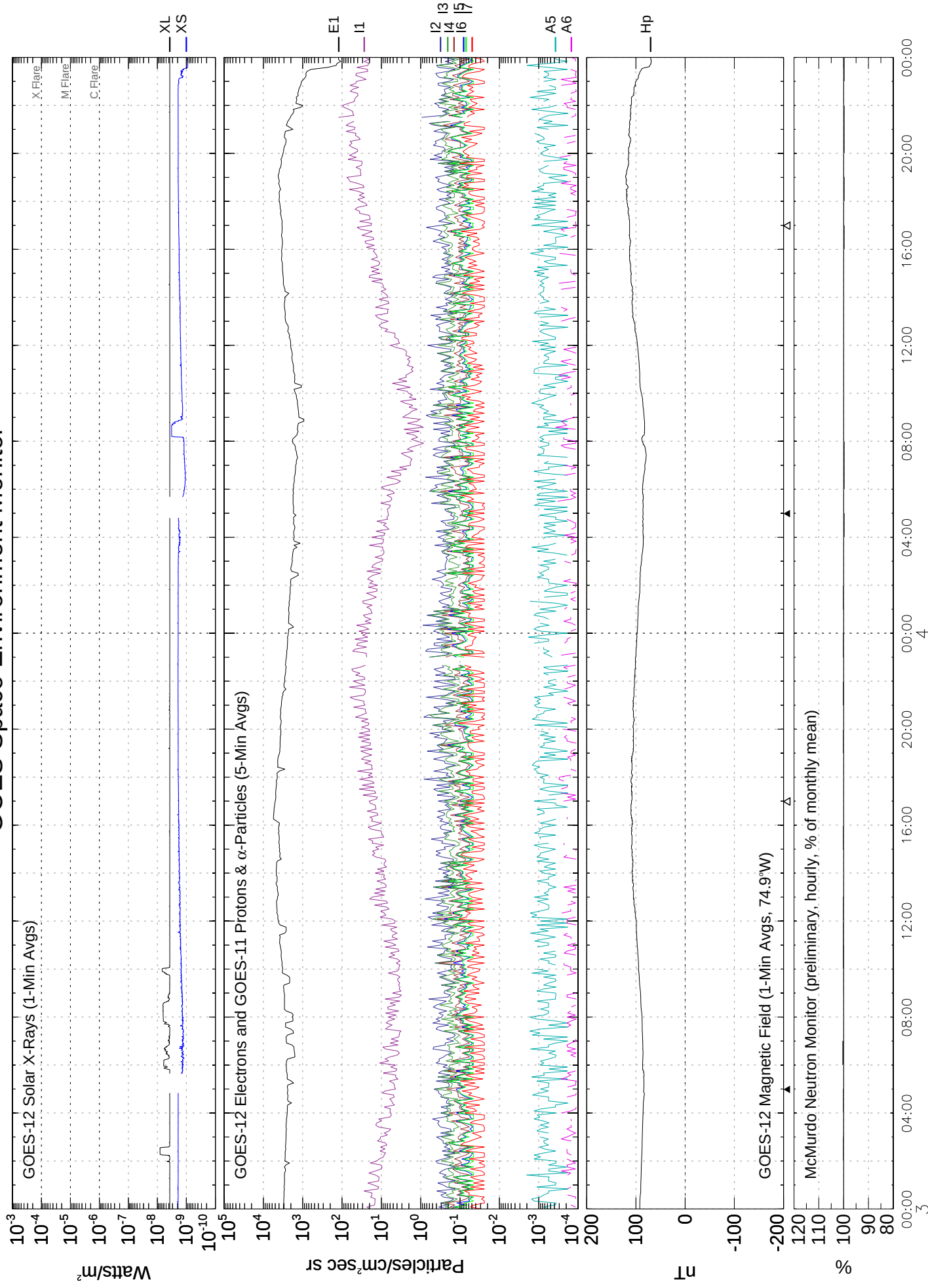
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GOES Space Environment Monitor

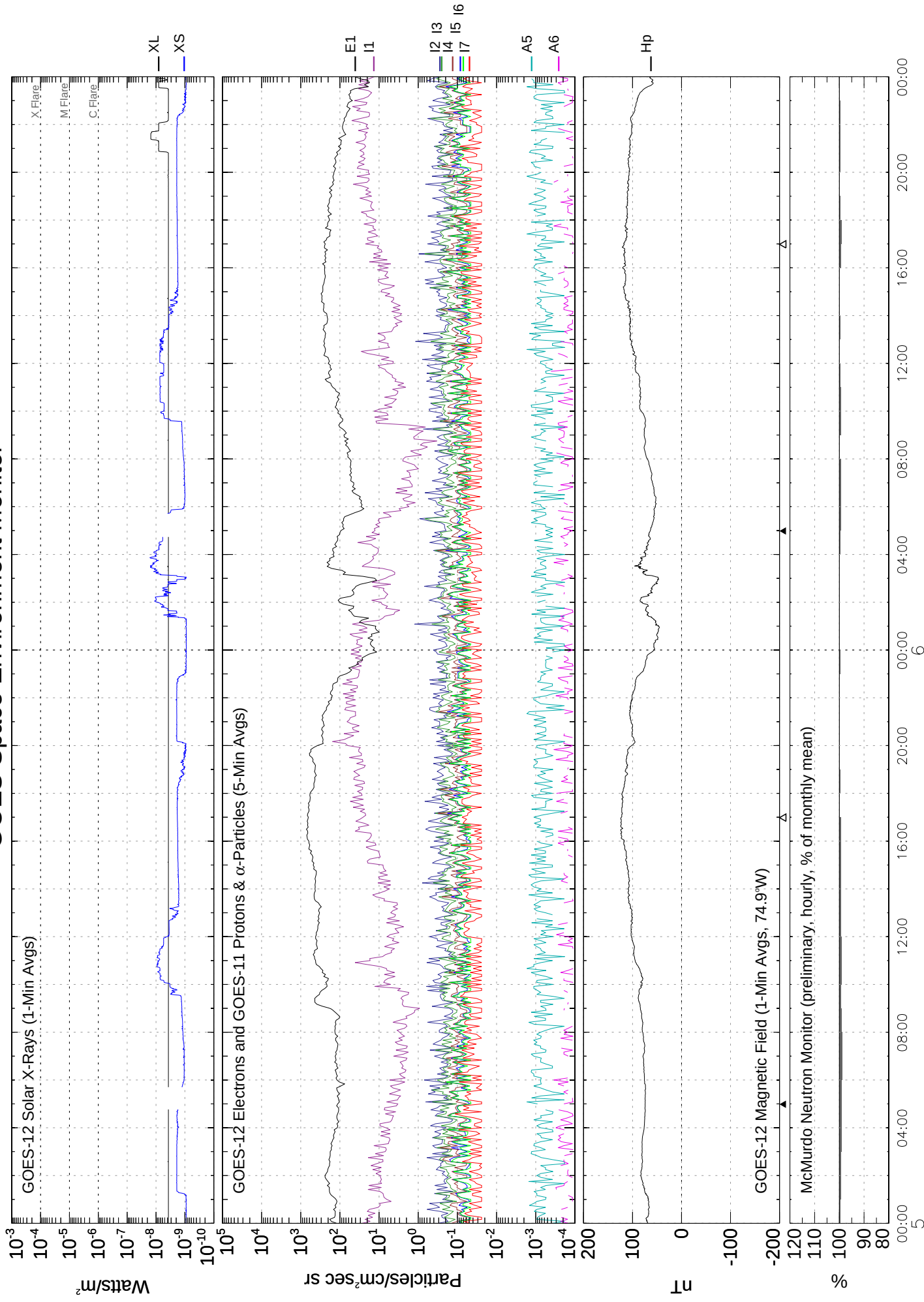


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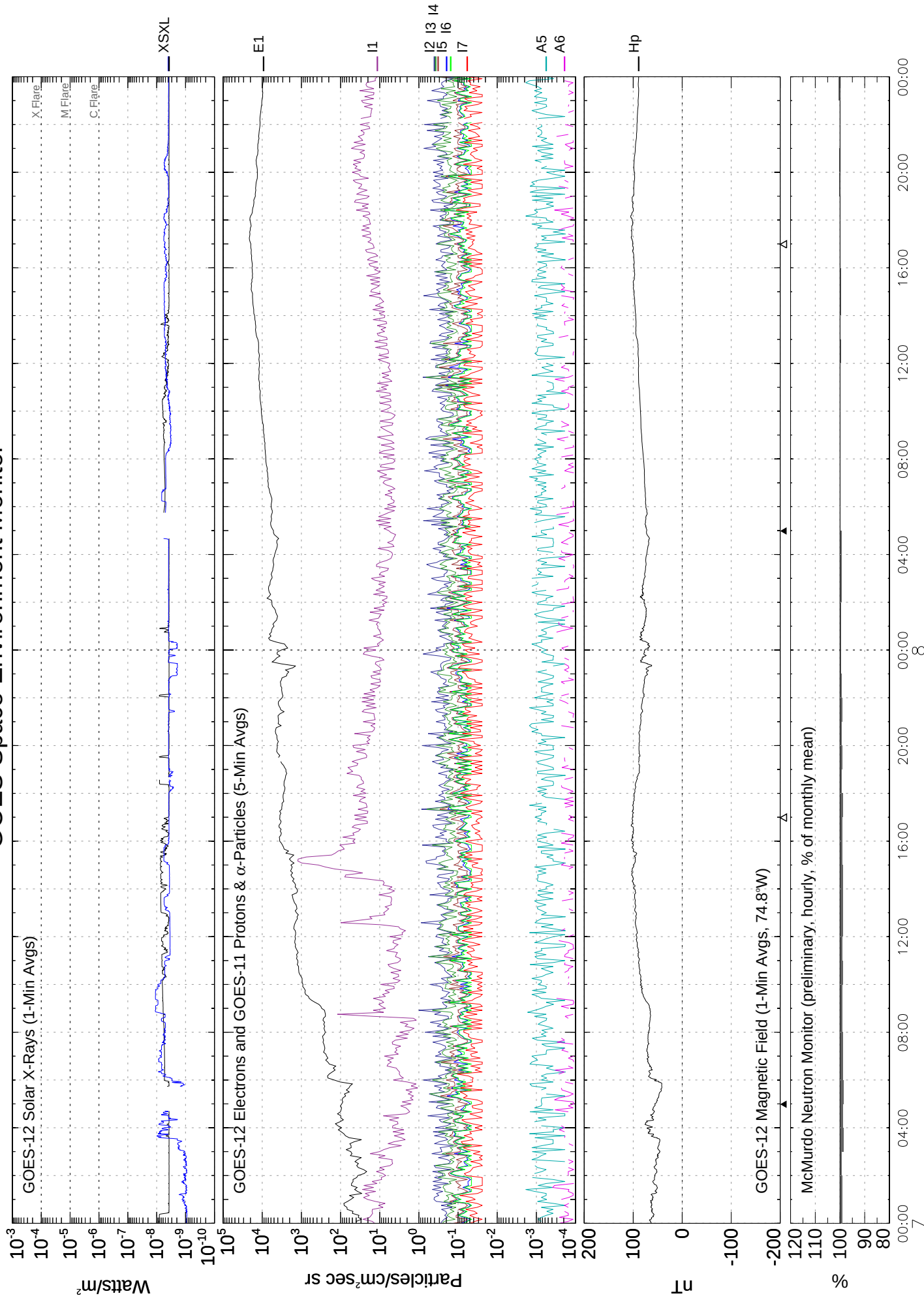


March 2007 (Universal Time)

GOES Space Environment Monitor

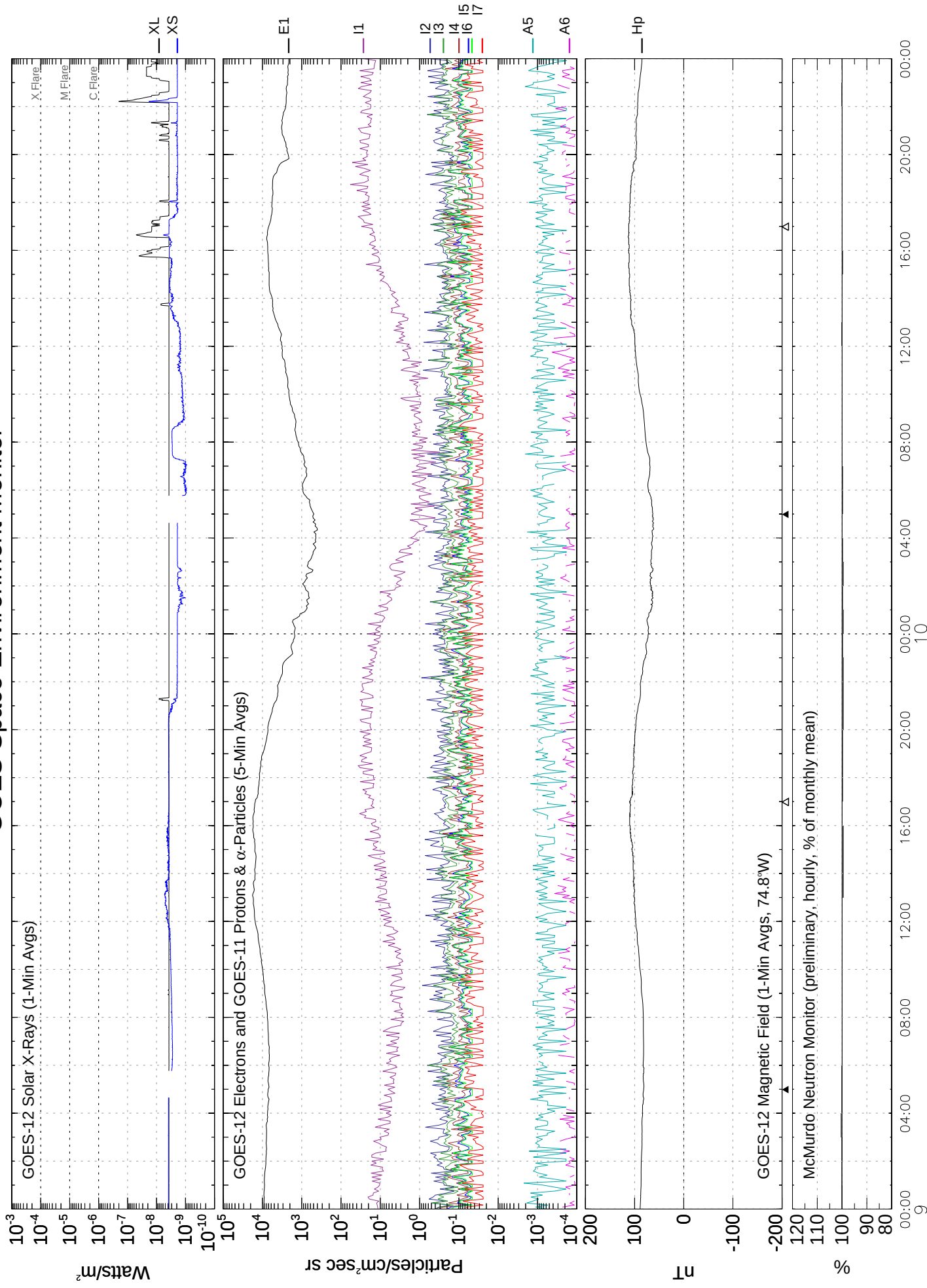


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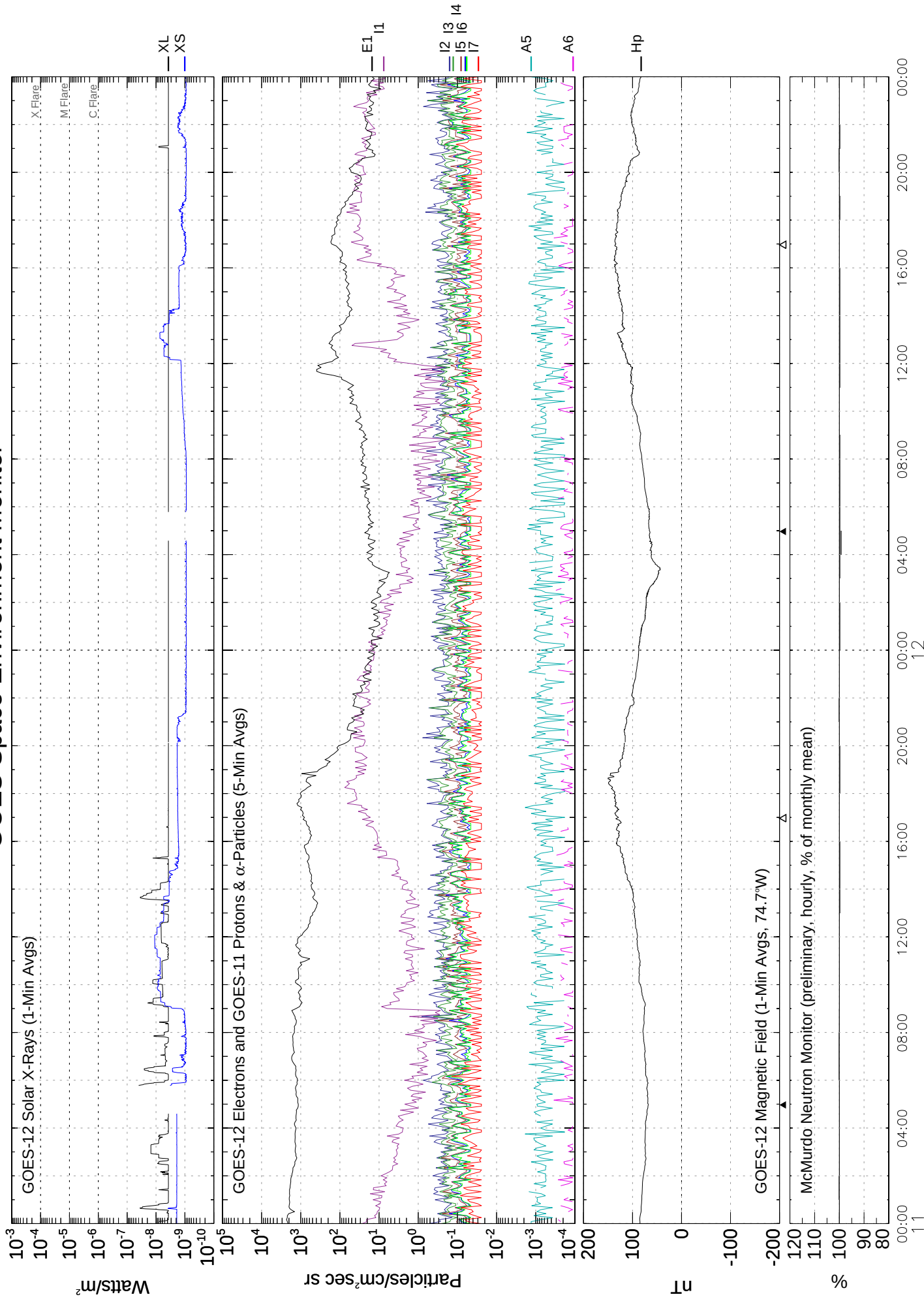
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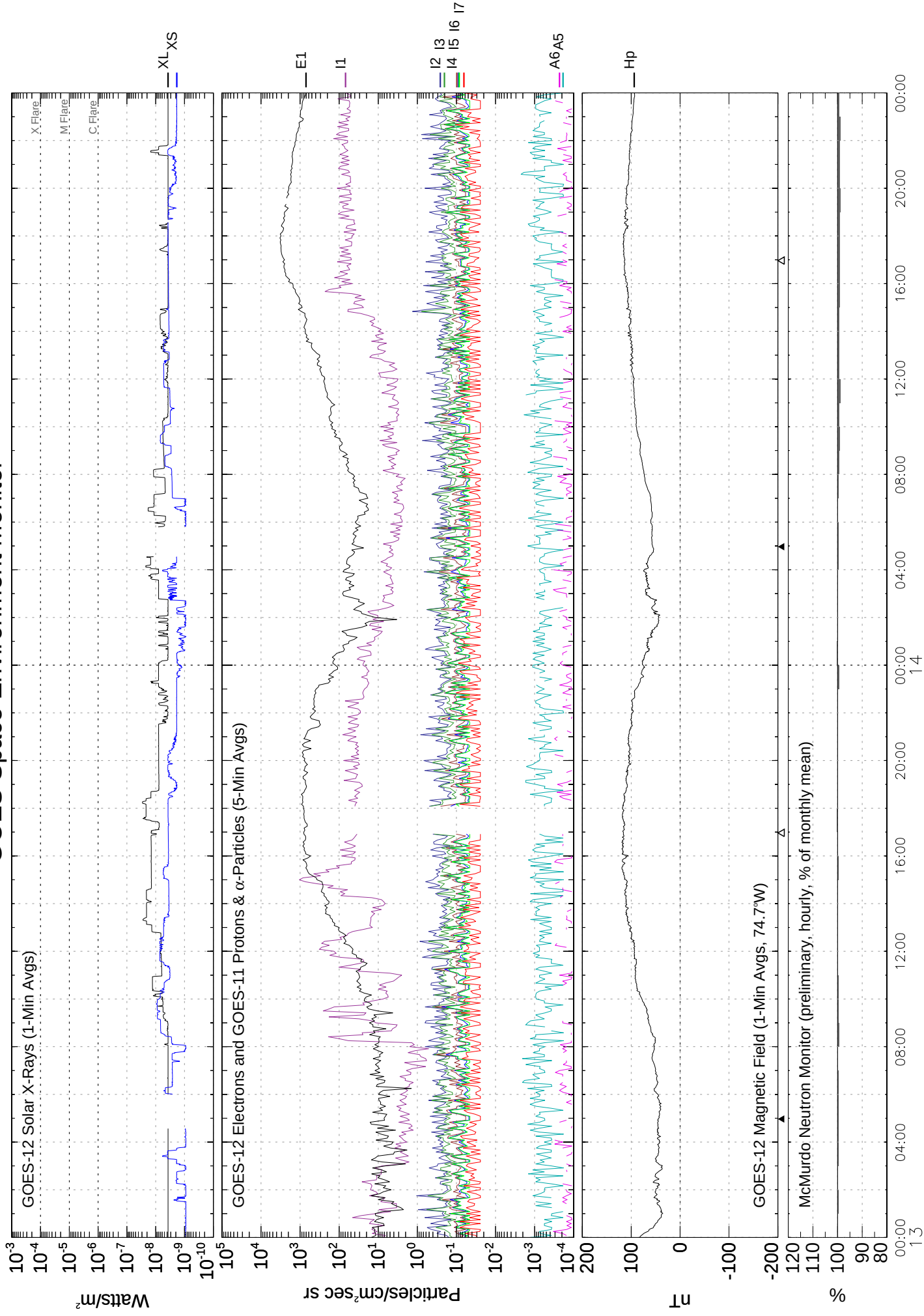
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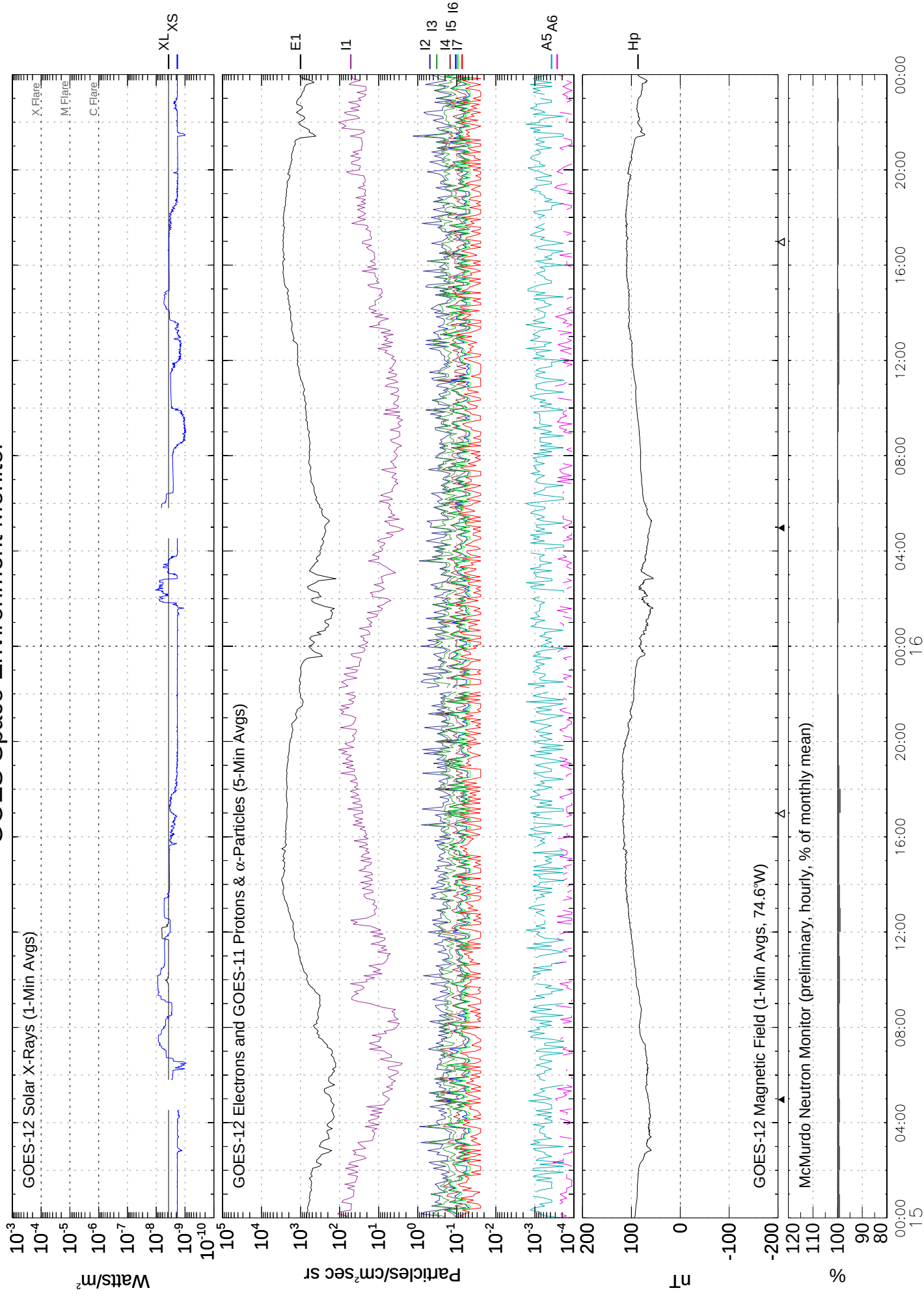
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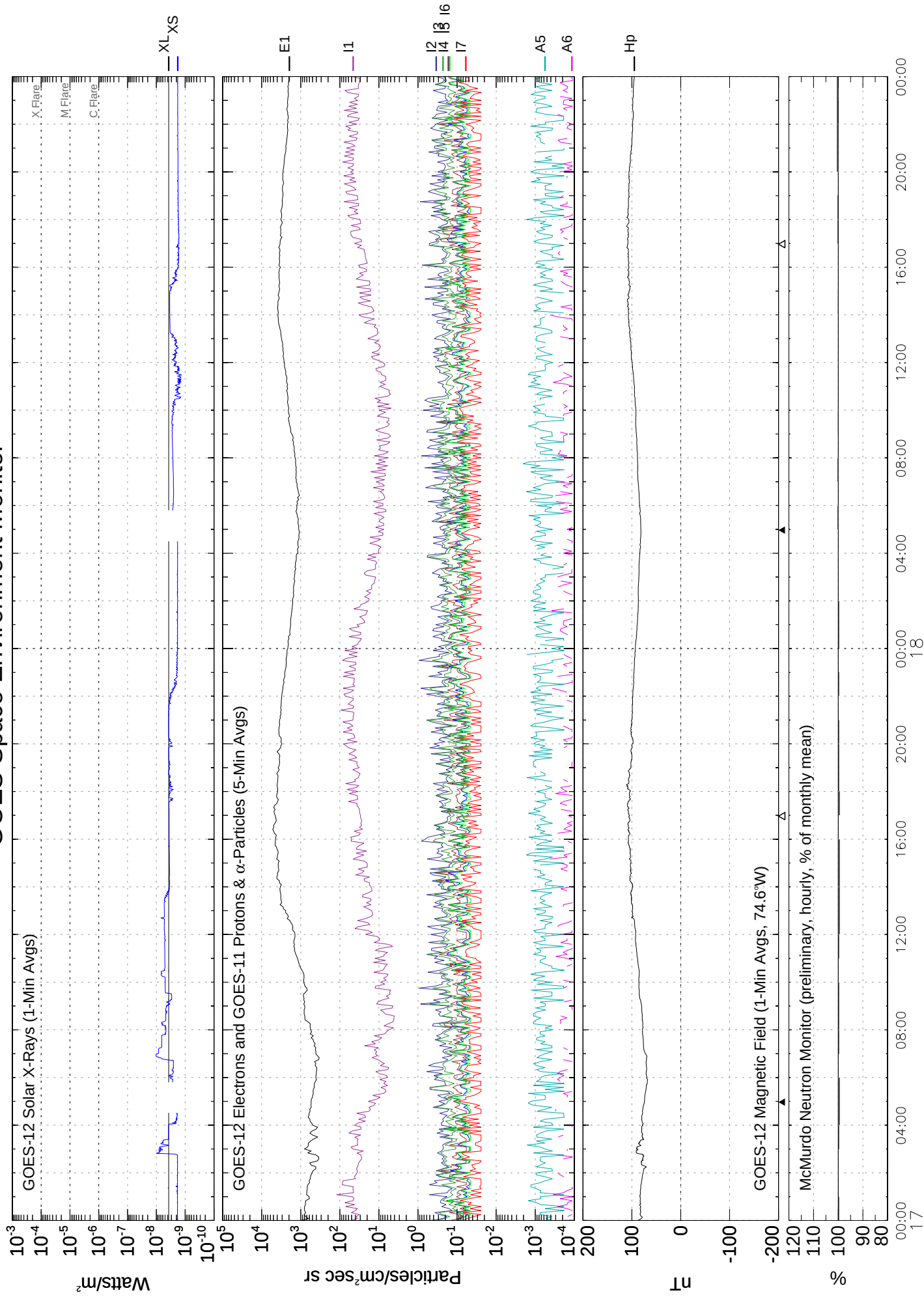
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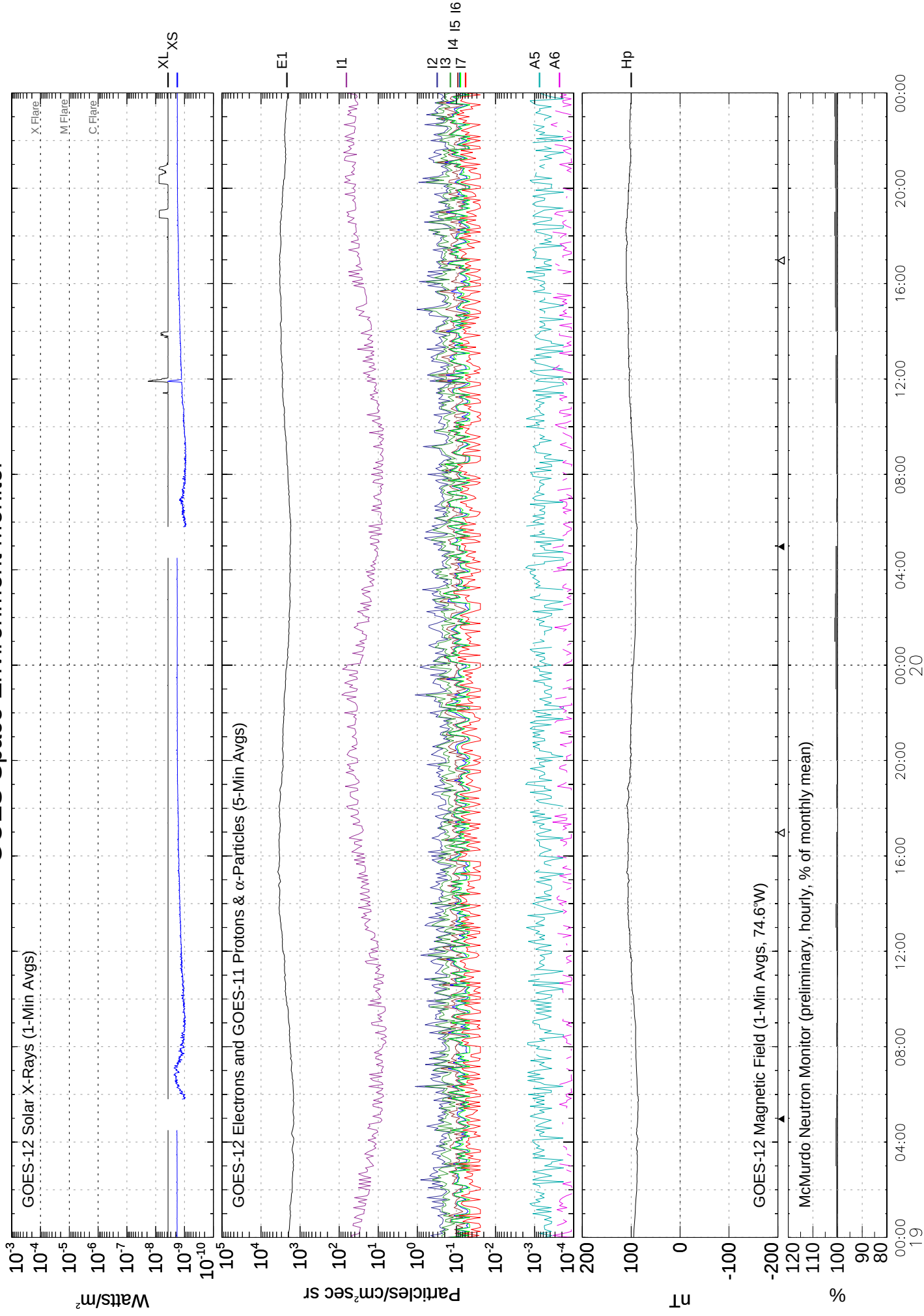
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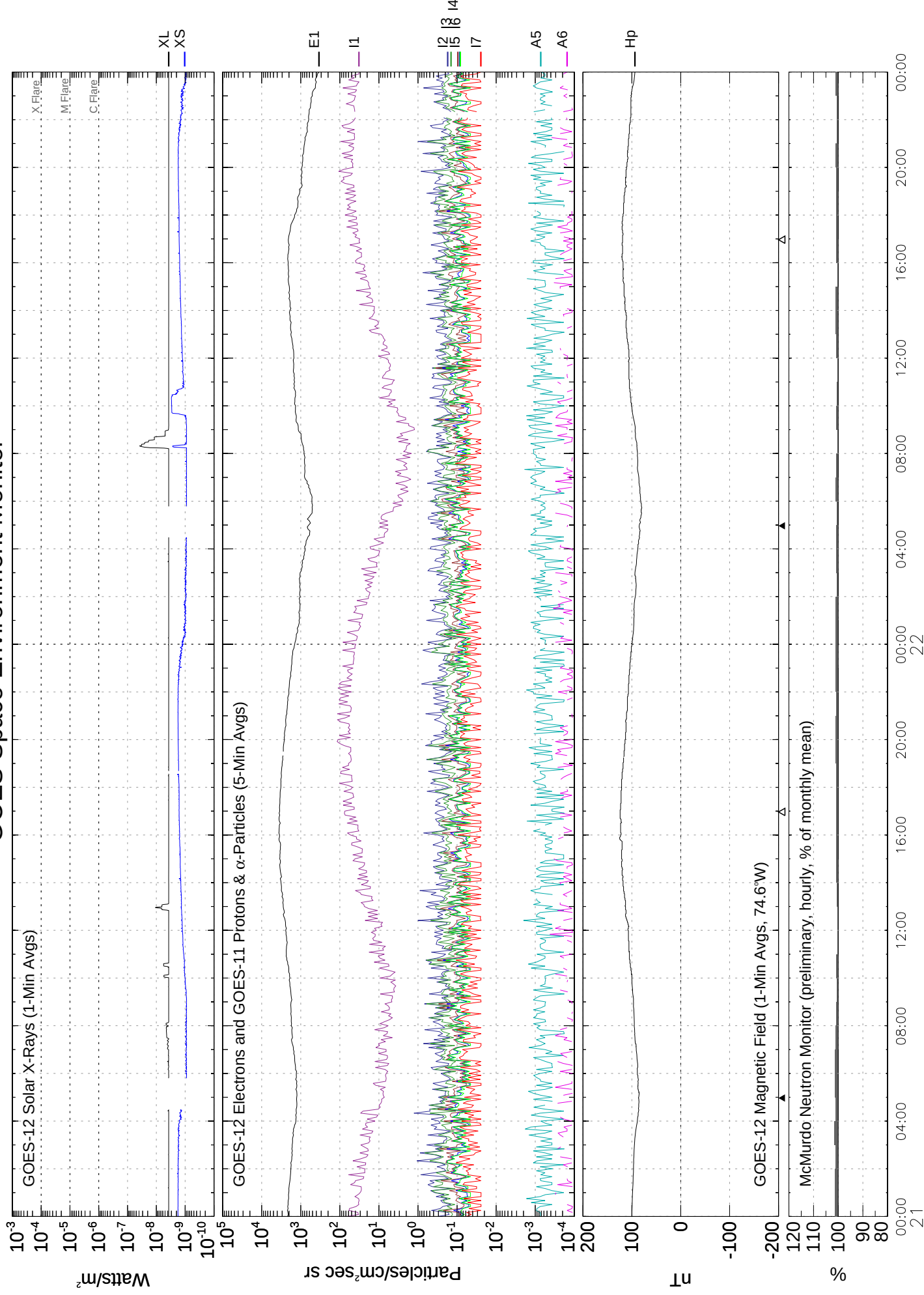
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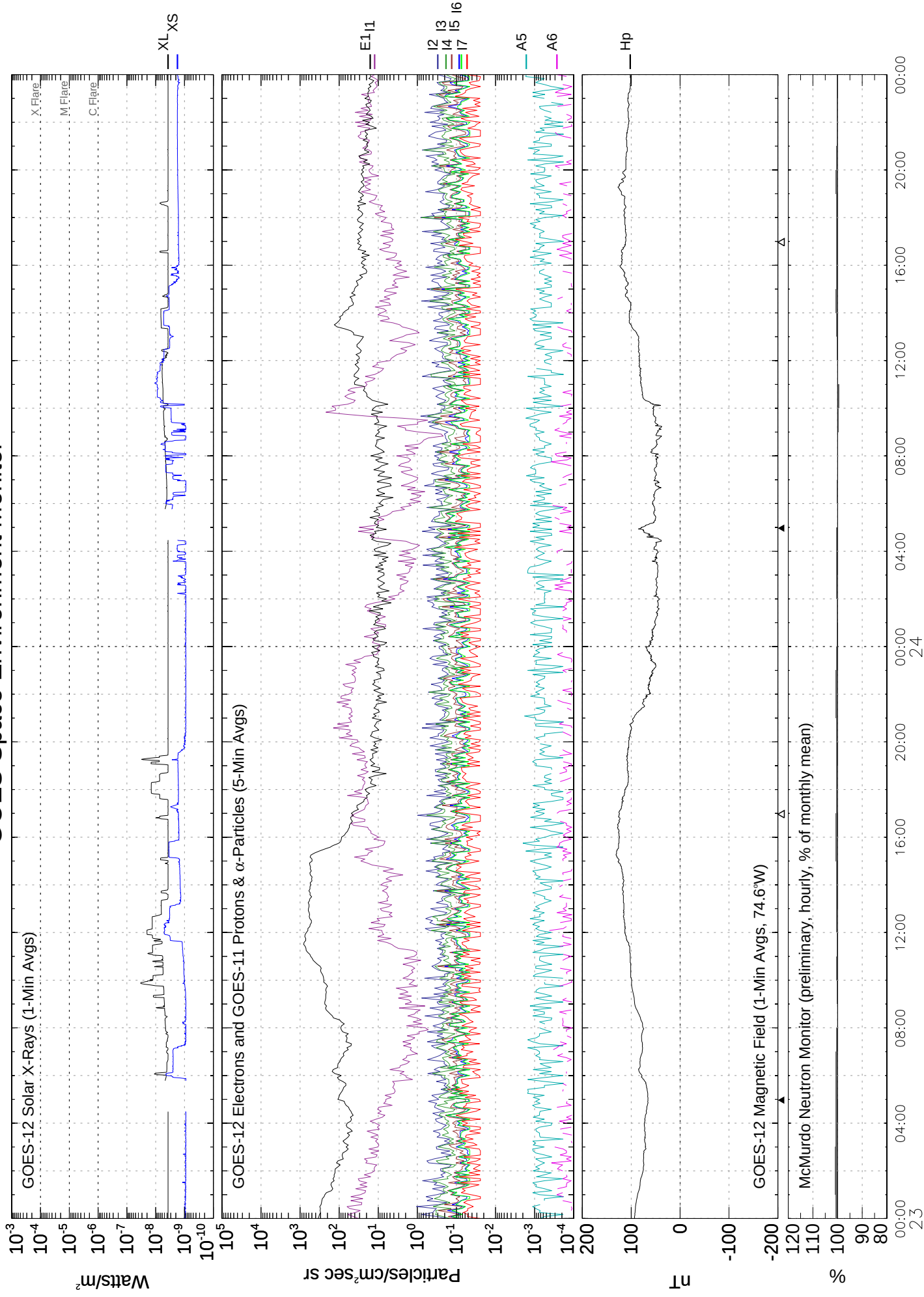
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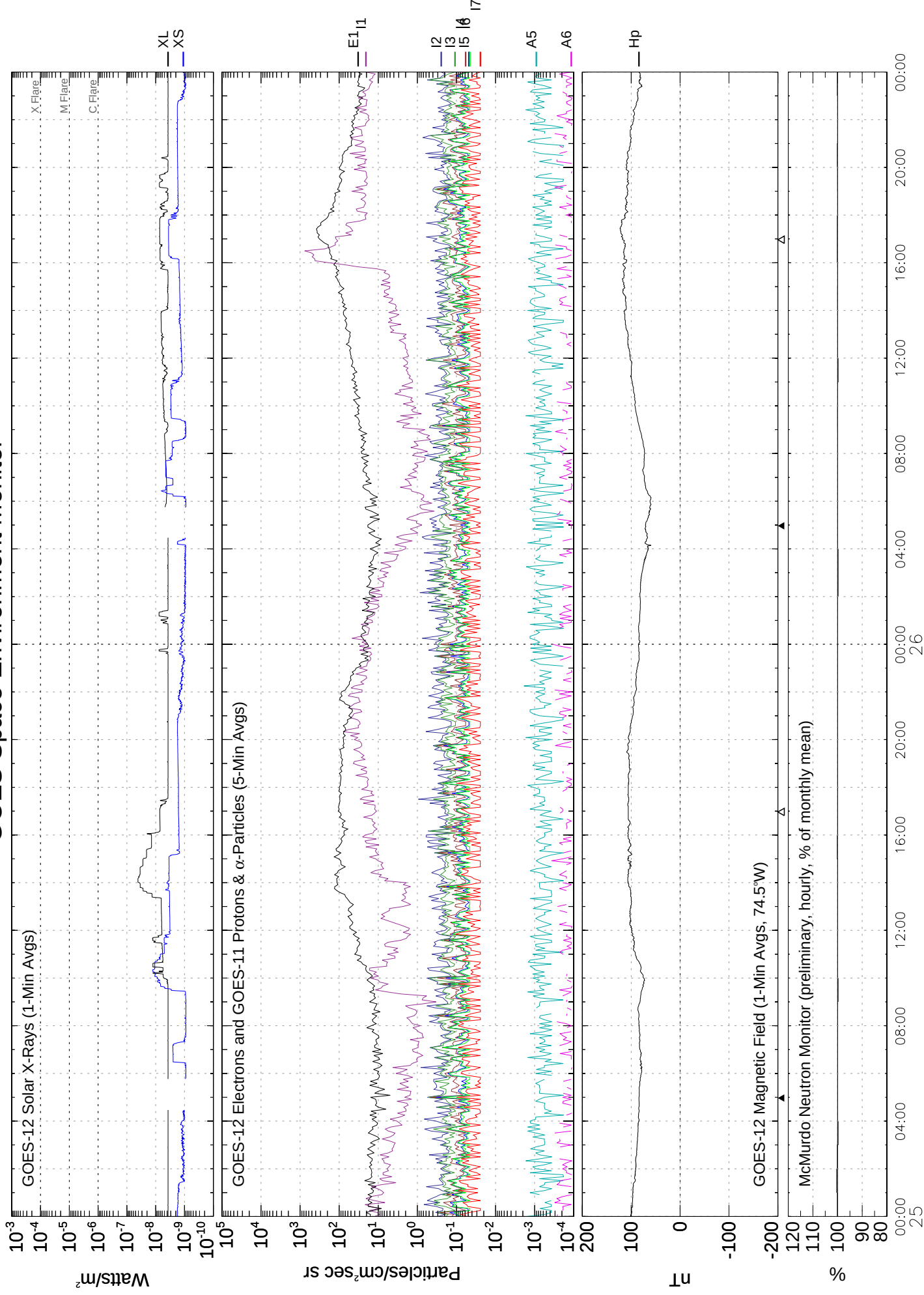
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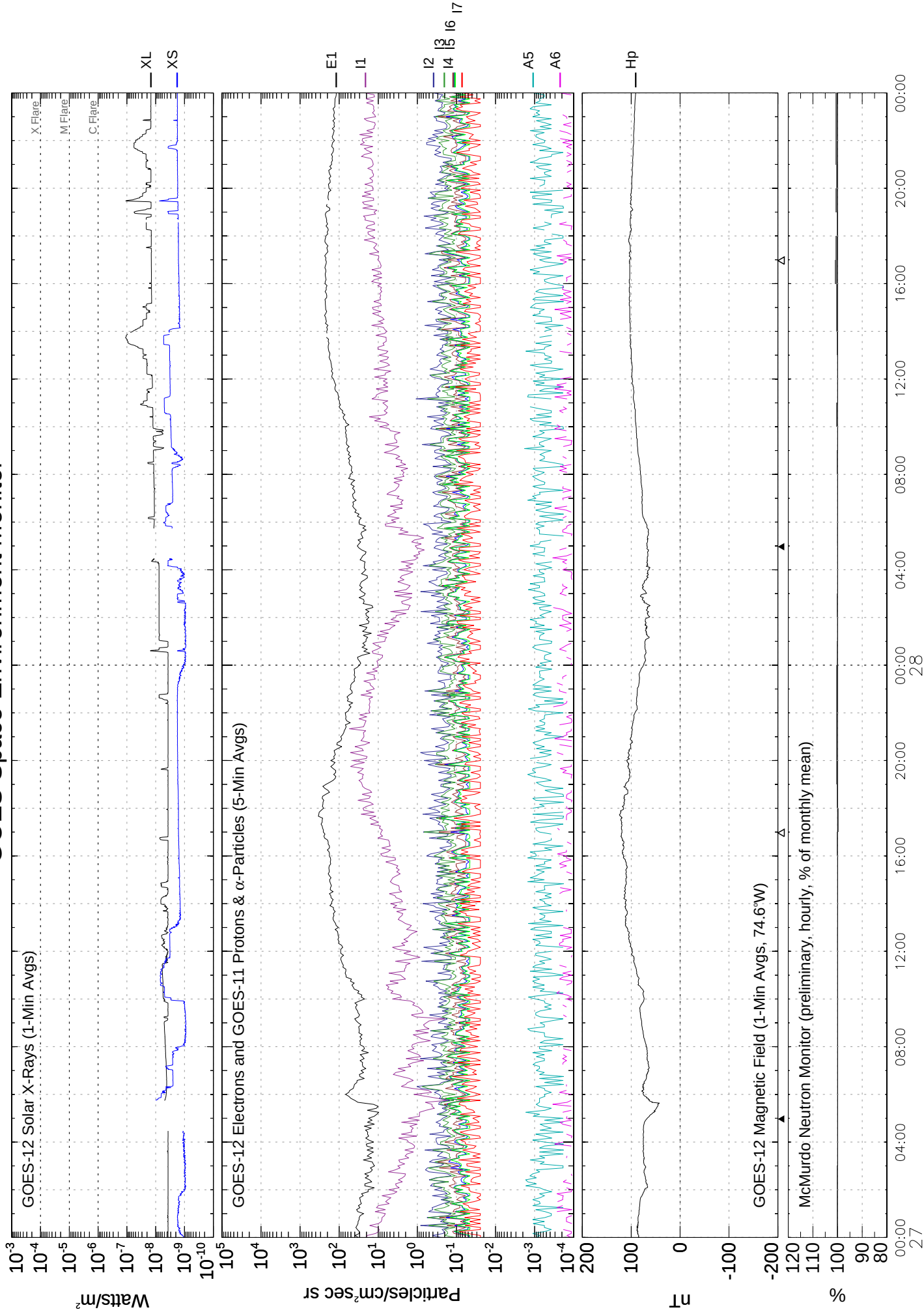
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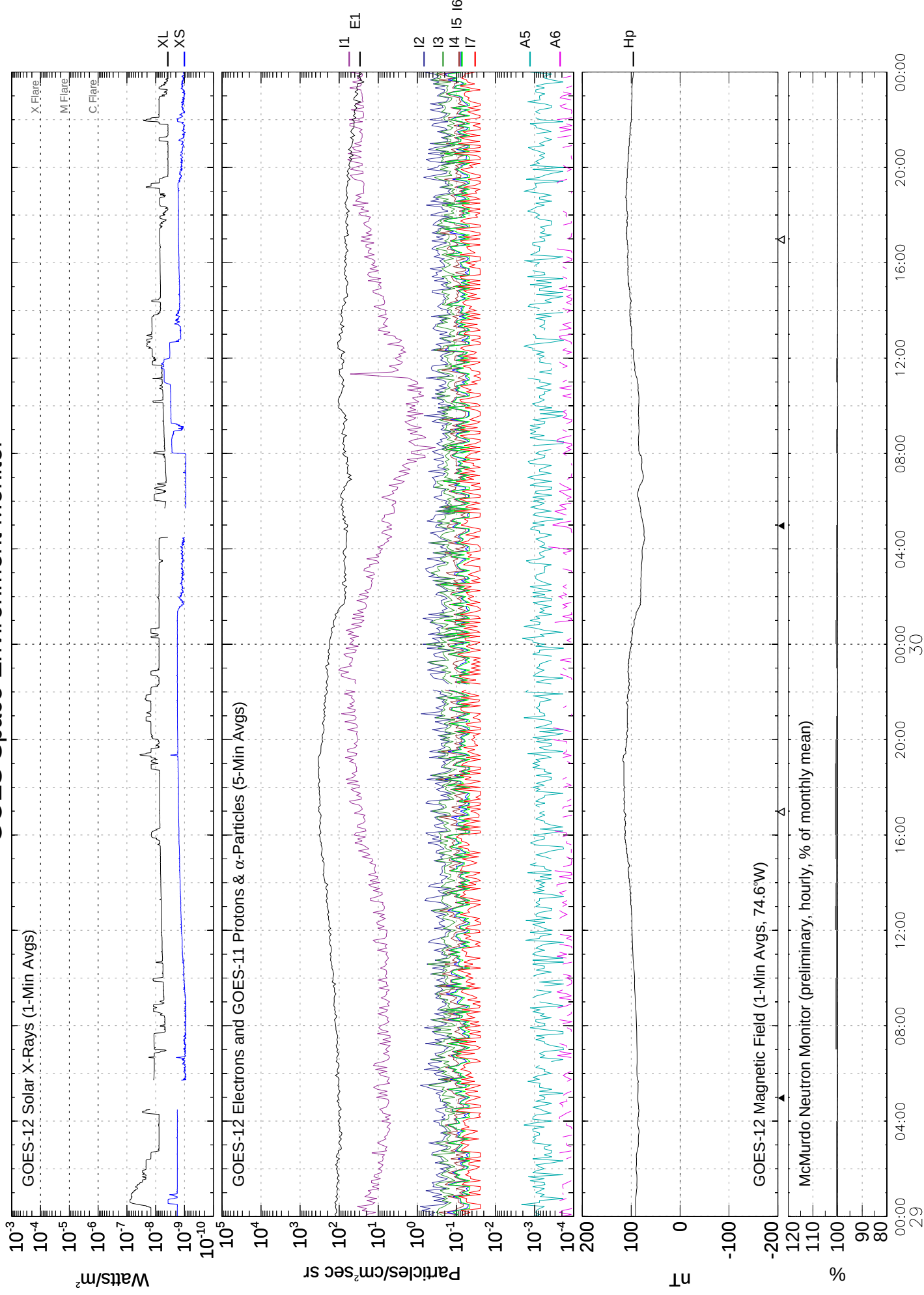
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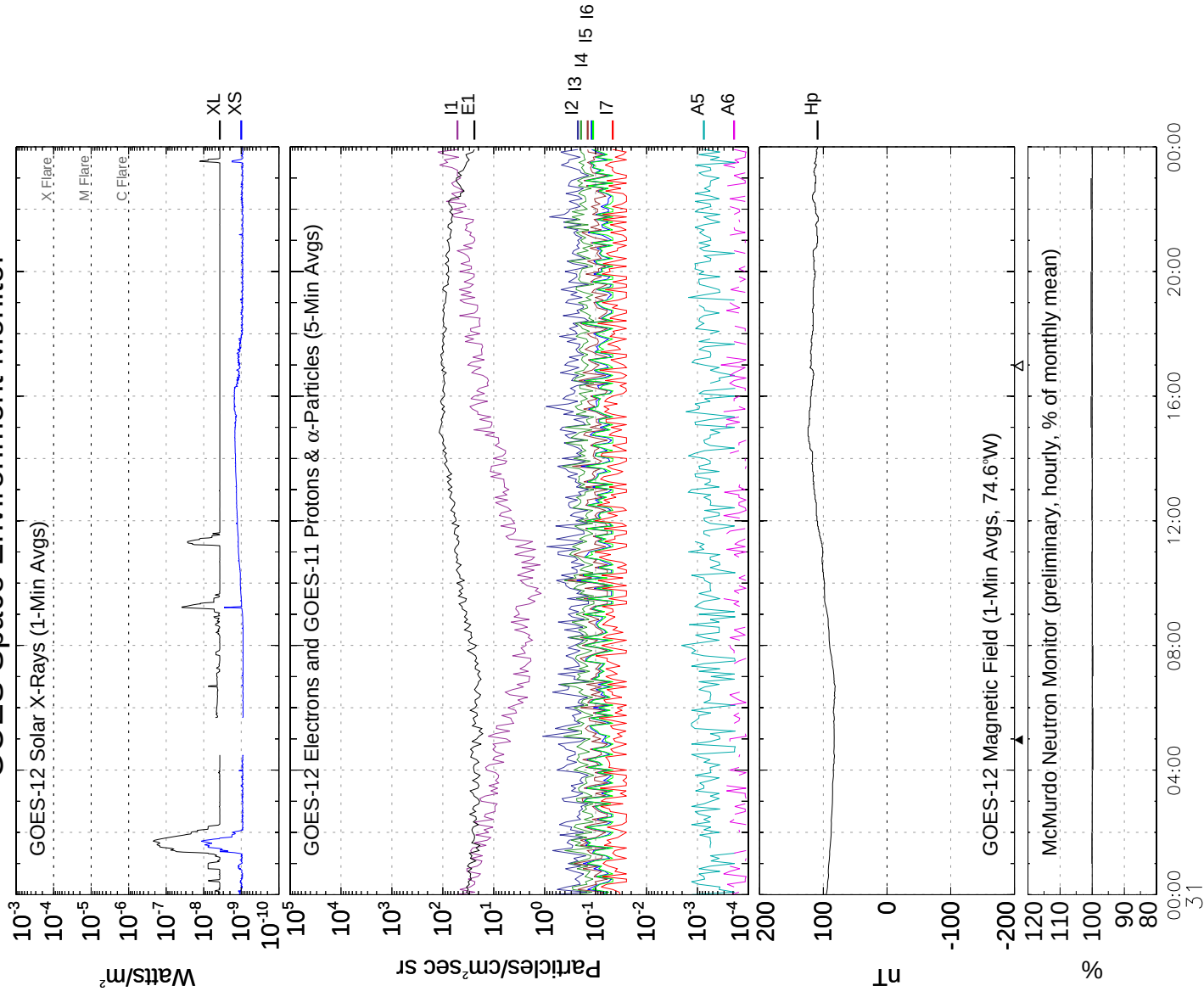
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March 2007 (Universal Time)

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Mar 07

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

MARCH 2007

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location		Flares			Date of Fcst	Region Fcst(1)	Geoadvice(1)
							Lat	Lon	Opt	M	X			
060	01	28	22	76	20	10944	S06	W04	0	0	0	01	Q	SOL: Quiet
						10945	S05	E34	0	0	0	01	Q	MAG: Active
									0	0	0	01		PRO: Quiet
061	02	01	11	75	12	10944	S06	W17	0	0	0	02	Q	SOL: Quiet
									0	0	0	02		MAG: Quiet
									0	0	0	02		PRO: Quiet
062	03	02	23	76	5	10944	S05	W30	0	0	0	03	Q	SOL: Quiet
						10945	S07	E11	0	0	0	03	Q	MAG: Quiet
									0	0	0	03		PRO: Quiet
063	04	03	11	73	2	10944	S06	W43	0	0	0	04	Q	SOL: Quiet
									0	0	0	04		MAG: Quiet
									0	0	0	04		PRO: Quiet
064	05	04	24	73	3	10944	S06	W57	0	0	0	05	Q	SOL: Quiet
						10945	S06	W17	0	0	0	05	Q	MAG: Quiet
									0	0	0	05		PRO: Quiet
065	06	05	27	72	12	10944	S05	W70	0	0	0	06	Q	SOL: Quiet
						10945	S06	W30	0	0	0	06	Q	MAG: Quiet
									0	0	0	06		PRO: Quiet
066	07	06	26	72	19	10944	S07	W84	0	0	0	07	Q	SOL: Quiet
						10945	S06	W43	0	0	0	07	Q	MAG: Active
									0	0	0	07		PRO: Quiet
067	08	07	11	73	17	10945	S07	W56	0	0	0	08	Q	SOL: Quiet
									0	0	0	08		MAG: Active
									0	0	0	08		PRO: Quiet
068	09	08	0	73	6				0	0	0	09		SOL: Quiet
									0	0	0	09		MAG: Quiet
									0	0	0	09		PRO: Quiet
069	10	09	0	72	1				0	0	0	10		SOL: Quiet
									0	0	0	10		MAG: Quiet
									0	0	0	10		PRO: Quiet
070	11	10	16	71	4	10946	N10	W46	0	0	0	11	Q	SOL: Quiet
									0	0	0	11		MAG: Quiet
									0	0	0	11		PRO: Quiet
071	12	11	14	71	6	10946	N10	W59	0	0	0	12	Q	SOL: Quiet
									0	0	0	12		MAG: Active
									0	0	0	12		PRO: Quiet
072	13	12	11	71	7	10946	N07	W72	0	0	0	13	Q	SOL: Quiet
									0	0	0	13		MAG: Active
									0	0	0	13		PRO: Quiet
073	14	13	0	71	21				0	0	0	14		SOL: Quiet
									0	0	0	14		MAG: Active
									0	0	0	14		PRO: Quiet
074	15	14	0	70	9				0	0	0	15		SOL: Quiet
									0	0	0	15		MAG: Quiet
									0	0	0	15		PRO: Quiet
075	16	15	0	69	9				0	0	0	16		SOL: Quiet
									0	0	0	16		MAG: Quiet
									0	0	0	16		PRO: Quiet
076	17	16	0	69	10				0	0	0	17		SOL: Quiet
									0	0	0	17		MAG: Quiet
									0	0	0	17		PRO: Quiet

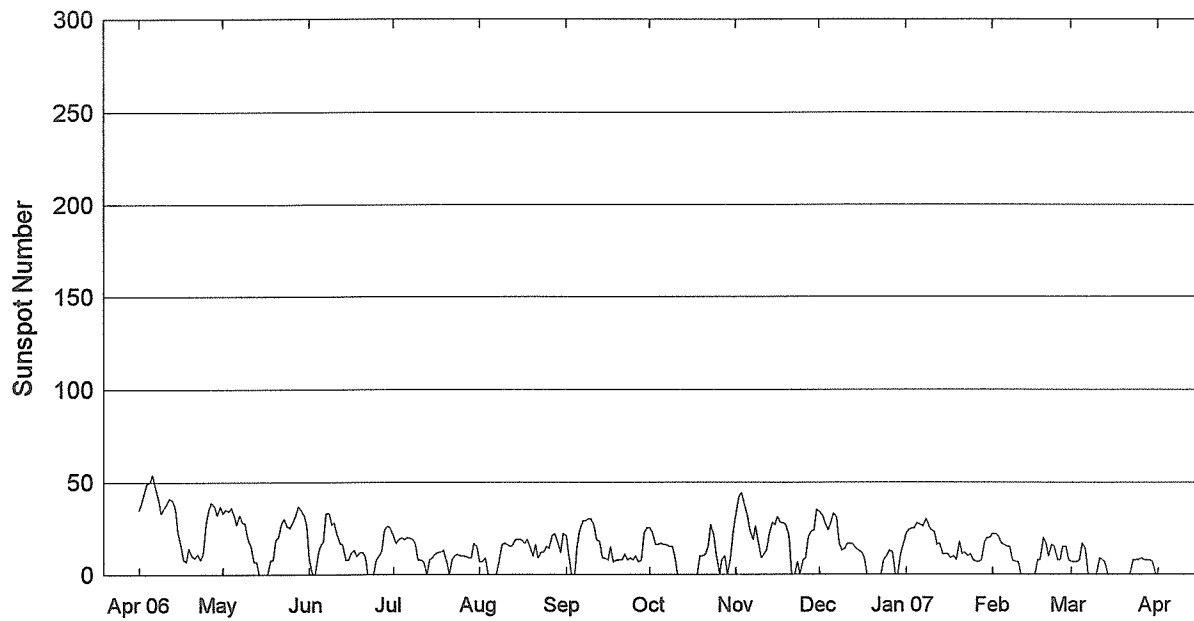
A L E R T P E R I O D S

The International Space Environment Service

MARCH 2007

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location		Flares			Date of Fcst	Region Fcst(1)	Geoadvice(1)
							Lat	Lon	Opt	M	X			
077	18	17	0	69	8				0	0	0	18		SOL: Quiet
									0	0	0	18		MAG: Quiet
									0	0	0	18		PRO: Quiet
078	19	18	0	71	4				0	0	0	19		SOL: Quiet
									0	0	0	19		MAG: Quiet
									0	0	0	19		PRO: Quiet
079	20	19	0	70	2				0	0	0	20		SOL: Quiet
									0	0	0	20		MAG: Quiet
									0	0	0	20		PRO: Quiet
080	21	20	0	73	0				0	0	0	21		SOL: Quiet
									0	0	0	21		MAG: Quiet
									0	0	0	21		PRO: Quiet
081	22	21	0	73	2				0	0	0	22		SOL: Quiet
									0	0	0	22		MAG: Quiet
									0	0	0	22		PRO: Quiet
082	23	22	0	73	2				0	0	0	23		SOL: Quiet
									0	0	0	23		MAG: Quiet
									0	0	0	23		PRO: Quiet
083	24	23	14	73	10	10947	S13	W60	0	0	0	24	Q	SOL: Quiet
									0	0	0	24		MAG: Quiet
									0	0	0	24		PRO: Quiet
084	25	24	11	73	20	10947	S14	W74	0	0	0	25	Q	SOL: Quiet
									0	0	0	25		MAG: Quiet
									0	0	0	25		PRO: Quiet
085	26	25	11	74	12	10947	S15	W86	0	0	0	26	Q	SOL: Quiet
									0	0	0	26		MAG: Quiet
									0	0	0	26		PRO: Quiet
086	27	26	17	74	12	10948	S02	W44	0	0	0	27	Q	SOL: Quiet
									0	0	0	27		MAG: Quiet
									0	0	0	27		PRO: Quiet
087	28	27	11	73	15	10948	S02	W56	0	0	0	28	Q	SOL: Quiet
									0	0	0	28		MAG: Quiet
									0	0	0	28		PRO: Quiet
088	29	28	23	75	9	10948 10949	S02 N07	W70 E62	0	0	0	29	Q	SOL: Quiet
									0	0	0	29	Q	MAG: Quiet
									0	0	0	29		PRO: Quiet
089	30	29	14	74	1	10949	N06	E48	0	0	0	30	Q	SOL: Quiet
									0	0	0	30		MAG: Quiet
									0	0	0	30		PRO: Quiet
090	31	30	13	74	5	10949	N07	E34	0	0	0	31	Q	SOL: Quiet
									0	0	0	31		MAG: Quiet
									0	0	0	31		PRO: Quiet

International Relative Sunspot Numbers Apr 2006 - Mar 2007



Day	Apr 06	May	Jun	Jul	Aug	Sep	Oct*	Nov*	Dec*	Jan 07*	Feb*	Mar*
1	35	33	8	21	7	21	25	32	34	22	22	7
2	39	35	0	17	7	10	23	42	32	24	22	7
3	44	34	0	19	9	0	16	44	28	25	21	7
4	49	36	11	20	0	0	16	39	24	25	17	8
5	50	32	15	19	0	16	17	32	28	28	16	17
6	54	27	18	20	0	24	16	24	33	27	15	14
7	46	32	33	20	0	29	16	19	31	26	15	0
8	41	31	33	19	7	29	15	26	17	30	8	0
9	33	28	27	17	16	30	15	18	13	27	7	0
10	36	19	28	8	17	30	10	9	14	24	7	0
11	38	16	21	8	16	27	0	11	17	23	0	9
12	41	7	17	7	15	19	0	13	17	16	0	8
13	40	7	16	0	16	18	0	21	16	17	0	7
14	36	0	8	8	19	9	0	28	14	11	0	0
15	23	0	8	9	19	9	0	27	13	11	0	0
16	15	0	12	11	19	8	0	31	12	11	0	0
17	8	0	13	12	17	15	0	28	9	9	8	0
18	7	8	10	12	19	7	0	28	0	10	8	0
19	14	8	12	13	15	8	10	27	0	8	20	0
20	10	19	12	8	10	8	10	21	0	18	17	0
21	9	20	10	0	16	8	11	0	0	11	10	0
22	11	28	0	8	9	11	15	0	0	12	16	0
23	8	30	0	10	12	8	27	7	0	10	15	8
24	11	26	0	11	12	9	21	0	8	11	8	8
25	28	25	8	10	15	8	10	8	10	8	8	8
26	35	28	10	10	14	10	0	9	13	7	15	9
27	39	32	13	10	21	7	8	20	12	7	15	8
28	37	37	24	9	22	8	10	23	0	8	8	8
29	32	35	26	9	17	22	0	24	0	18		8
30	37	32	25	17	12	25	9	35	10	20		7
31		27		15	22		23		17	20		0
Mean	30.2	22.3	13.9	12.2	12.9	14.4	10.4	21.5	13.6	16.9	10.6	4.8

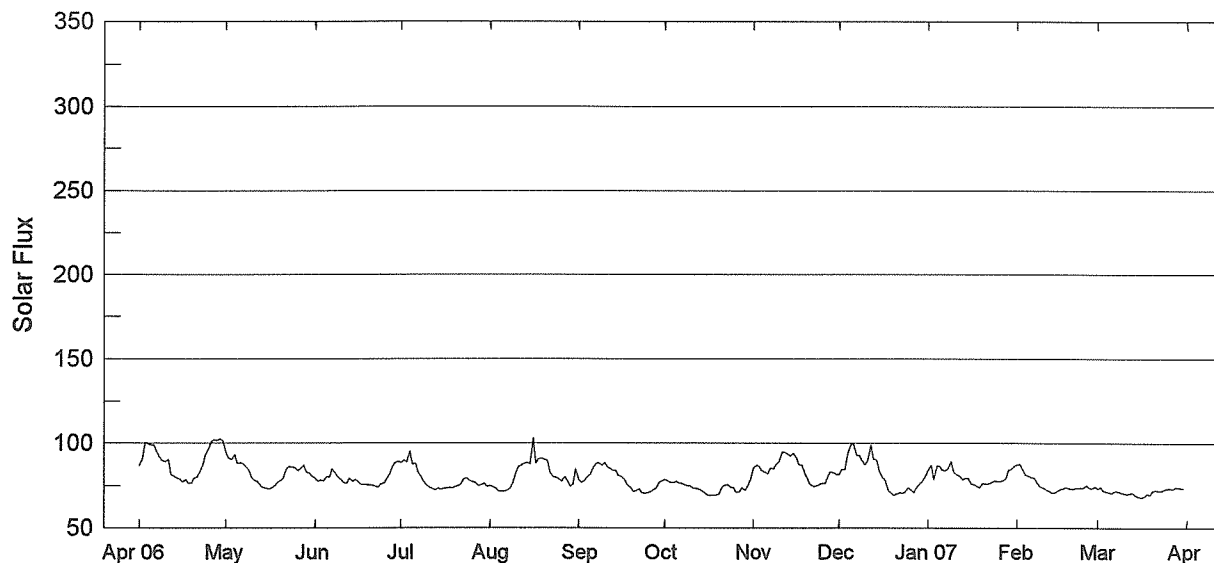
* = Provisional.

Penticton 2800 MHz (10.7cm) Solar Flux

Apr 2006 - Mar 2007

23
Mar 07

Adjusted to 1 AU



Day	Apr 06	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 07	Feb	Mar
1	86.9	94.8	79.4	88.4	74.9	78.3	78.6	85.3	81.8	84.1	87.3	73.4
2	91.1	90.9	77.5	90.0	74.3	76.9	78.0	86.8	84.8	87.0	87.7	74.2
3	100.4	90.4	78.1	88.8	73.4	77.8	76.7	86.0	84.6*	78.6	84.8	72.0
4	99.6	93.4	77.8	95.1	71.6	80.3	76.7	84.0	93.6#	86.4	81.3	71.3
5	99.1	88.2	80.2	87.5	71.5	81.7	77.3	83.2	99.4	86.5	80.7	70.8
6	99.1	88.6	80.3	87.9	71.5	85.3	76.3	82.1	99.7*	84.4	79.6	70.8
7	94.7	87.8	85.2	82.6	71.8	88.1	76.4	85.6	92.9*	83.9	79.8	71.8
8	91.3	86.3	82.5	80.0	73.4	88.5	75.1	84.8	93.1	85.1	76.3	71.4
9	89.5	84.2	80.0	77.1	76.1	86.7	74.8	87.7	89.6	89.1	74.6	70.6
10	89.1	79.8	78.5	75.2	82.5	88.5	75.0	89.3	87.3	83.3	73.9	70.2
11	90.1	77.9	76.7	73.6	86.2	85.7	73.3	95.0	89.4	81.2	72.8	70.1
12	81.6	77.3	76.5	72.9	87.0	85.1	73.3	94.7	98.9+	81.0	71.8	70.3
13	80.5	75.0	79.5	72.2	88.1	83.9	72.9	93.2	90.7	78.7	70.9	70.6
14	79.4	73.6	77.7	73.3	88.6	83.8	72.0	92.5	90.5	79.4	70.9	69.2
15	78.9	73.2	78.8	72.6	87.8	81.0	70.7	94.0	84.4	79.3	71.8	68.5
16	77.0	73.1	77.7	73.2	103.2	80.1	69.1	92.0	79.7	76.1	72.9	68.0
17	78.5	73.6	75.6	73.3	88.0	78.8	69.1	87.4	78.7	75.6	73.5	68.6
18	76.5	75.0	75.7	73.6	90.6	75.1	69.0	86.8	72.3	74.4	74.1	69.8
19	76.5	77.1	75.7	73.4	90.9	74.0	69.0	82.9	70.6	73.9	73.2	69.5
20	79.3	78.0	75.3	74.5	90.2	71.5	70.4	78.6	69.2	76.3	73.1	72.0
21	80.0	79.4	75.1	75.0	89.8	72.0	74.0	75.6	70.0	76.1	73.2	72.3
22	83.2	85.1	74.4	75.9	82.7	72.9	75.1	74.6	70.8	76.0	73.9	72.0
23	87.7	86.3	74.1	78.9	80.1	70.9	75.7	74.9	70.3	76.8	73.6	72.0
24	93.9	85.9	76.1	79.5	79.9	70.3	74.0	75.5	71.1	77.9	73.9	72.4
25	96.3	85.9	76.5	77.9	78.9	70.6	73.9	76.5	73.9	77.5	75.1	73.3
26	101.3	83.8	79.0	77.0	77.3	71.0	71.0	76.2	72.5	77.3	73.9	73.5
27	102.0	85.2	81.2	76.7	80.2	72.4	71.1	80.2	70.9	78.0	73.4	73.0
28	101.5	87.0	86.3	74.9	78.0	73.3	73.7	83.2	73.8	79.3	74.4	74.3
29	102.7	83.3	88.4	75.2	74.4	76.8	72.3	82.7	75.8	84.1		73.6
30	101.4	82.3	89.0	76.2	75.7	77.9	74.6	81.8	77.4	84.9		73.9
31		80.6		74.6	84.7		78.9		80.5	86.6		73.1
Mean	89.6	82.7	79.0	78.3	81.4	78.6	73.8	84.4	81.9	80.8	75.8	71.5

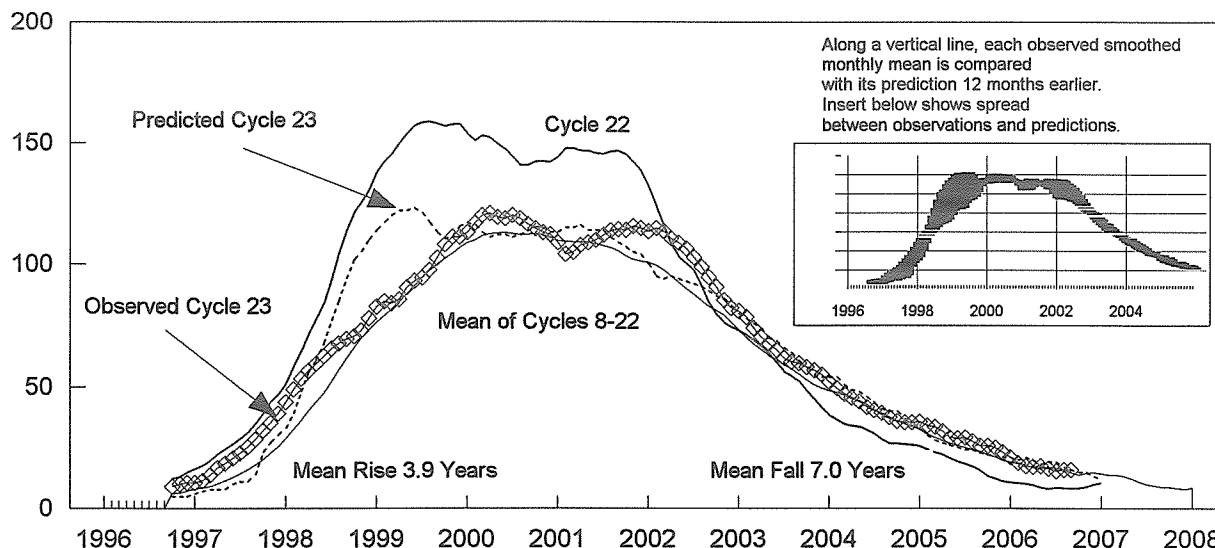
NOTE: # - 2200UT reading. * - 1800UT reading, + = Burst in progress.

DAILY SOLAR INDICES

March 2007

	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	60	4	7	9	74.8	443	221	123	73.4	80	41	31	24	9
2	61	5	7	11	75.5	284	143	98	74.2	65	39	29	23	10
3	62	6	7	8	73.3	452	212	126	72.0	65	43	28	23	10
4	63	7	8	9	72.5	441	215	128	71.3	67	42	30	24	11
5	64	8	17	13	71.9	442	212	126	70.8	68	42	30	23	12
6	65	9	14	6	71.9	435	235	127	70.8	70	39	30	24	8
7	66	10	0	2	72.9	444	233	130	71.8	71	41	30	23	9
8	67	11	0	0	72.5	445	231	130	71.4	70	41	32	23	11
9	68	12	0	0	71.6	---	---	---	70.6	---	---	---	---	---
10	69	13	0	0	71.2	440	222	127	70.2	66	40	31	23	9
11	70	14	9	8	71.0	440	214	126	70.1	59	40	29	23	10
12	71	15	8	5	71.2	445	210	125	70.3	76	40	29	23	8
13	72	16	7	1	71.4	445	199	125	70.6	59	42	30	22	9
14	73	17	0	0	70.0	418	214	126	69.2	65	40	28	23	8
15	74	18	0	0	69.2	410	210	122	68.5	65	39	29	23	8
16	75	19	0	0	68.7	437	222	125	68.0	68	38	28	26	9
17	76	20	0	0	69.3	408	214	121	68.6	65	38	---	---	---
18	77	21	0	0	70.5	443	220	126	69.8	57	40	31	24	9
19	78	22	0	1	70.1	446	219	126	69.5	66	44	28	23	8
20	79	23	0	0	72.6	---	---	---	72.0	---	---	---	---	---
21	80	24	0	1	72.8	445	219	128	72.3	69	42	30	25	9
22	81	25	0	0	72.5	436	209	127	72.0	69	41	31	25	8
23	82	26	8	6	72.5	450	213	130	72.0	67	42	31	25	11
24	83	27	8	4	72.8	452	219	130	72.4	73	44	31	25	8
25	84	1	8	1	73.7	449	223	132	73.3	73	44	31	25	11
26	85	2	9	8	73.8	438	221	131	73.5	70	43	31	25	8
27	86	3	8	3	73.3	435	216	129	73.0	70	43	30	25	8
28	87	4	8	6	74.6	452	216	129	74.3	69	45	31	26	8
29	88	5	8	6	73.8	450	221	131	73.6	69	43	33	32	11
30	89	6	7	6	74.1	445	218	130	73.9	74	46	32	35	10
31	90	7	0	2	73.2	447	219	130	73.1	70	42	31	24	9
MEAN			4.8	3.7	72.2	435	215	126	71.5	68	41	30	24	9

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



Smoothed Sunspot Numbers (Observed and Predicted) for Parts of Solar Cycles 22 and 23

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	15	14	13	16
										(1)	(3)	(4)	(1)
2007	13	12	12	12	12	12	13	13	14	15	16	17	13
	(4)	(5)	(5)	(7)	(8)	(10)	(11)	(13)	(15)	(17)	(19)	(21)	(11)
	Solar Cycle 22			Solar Cycle 23				Min, Max, and Predictions					

* May 1996 marks Cycle 22's mathematical minimum. ** October 1996 marks the consensus minimum NGDC is now using.

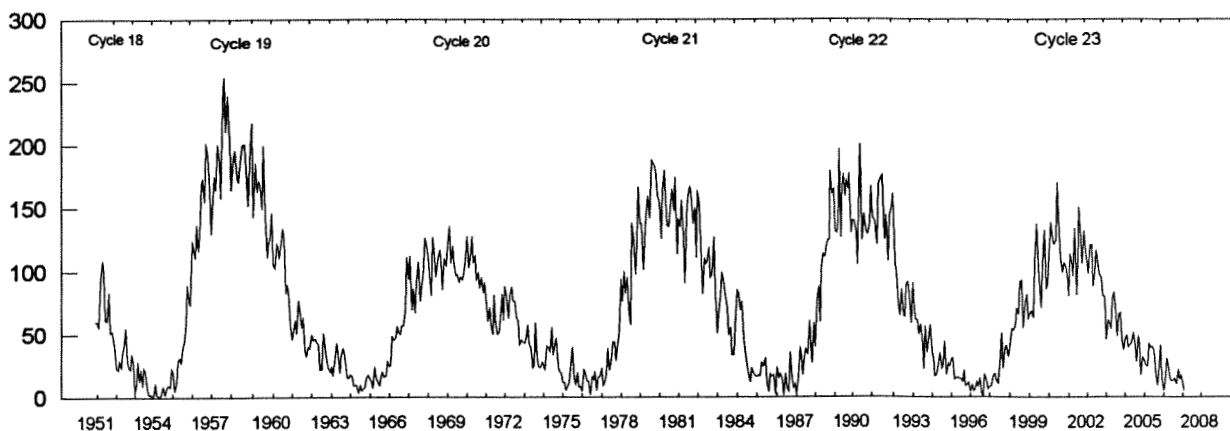
+ April 2000 marks Cycle 23 maximum.

Observed and Predicted Numbers. For the end of Cycle 22, and the rise and decline of Cycle 23, 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 2006 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 2007 prediction. There exists a 90% chance that in September, the actual smoothed number will fall somewhere between 0 and 29.

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 15 cycles of observations used in the computation. Moreover, the method remains very sensitive to the date defining the onset of the current cycle, that is, to the date of the most recent sunspot minimum. The new cycle predictions tabulated above are based on the consensus minimum value of 8.8 that occurred in October 1996.

Note: Please visit <http://www.sec.noaa.gov> for solar minimum and Cycle 23 discussions.

Mean Monthly Sunspot Numbers Jan 1951 - Mar 2007



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	10.4	21.5	13.6	15.2
2007	16.9	10.6	4.8										10.8

Values are preliminary after Sep 06. For the yearly means, each 'M' marks a sunspot cycle maximum and each 'm' a minimum.

H α SOLAR FLARES

MARCH 2007

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF		CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
							Region	Mo							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
LEAR	31	0137	0144	0153	N06	E33	10949	04	2.5	16	SF		3	E		20		FE

"Remarks"

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

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

28
Mar 07

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

MARCH 2007

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Xray	Total Integrated Flux(1)	Total Area(2)	Total(3) Intensity
GOES	02	0503	0529	0550			10944			47	B 2.5	1.5E-04		
GOES	10	2209	2213	2215						6	B 2.0	3.8E-05		
GOES	28	1316	1344	1357						41	B 1.1	1.9E-04		
GOES		1925	1928	1932	N09	E64	10949			7	B 1.0	2.8E-05	5.5E+02	1.2E+03
GOES	31	0128	0143	0148			10949			20	B 2.2	1.9E-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) data since January, 2004. 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.

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

Selected Fixed Frequency Events

29
Mar 07

MARCH 2007

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
14	245 PALE	8 s	0127.0	0127.0	U	170.0			QL=4 ST=2 TYP=3
15	245 LEAR	8 s	0833.0	0833.0	U	120.0			QL=4 ST=2 TYP=3
17	245 LEAR	8 s	0541.0	0541.0	U	100.0			QL=4 ST=3 TYP=3
	245 LEAR	8 s	0813.0	0813.0	U	120.0			QL=4 ST=2 TYP=3
	245 SVTO	8 s	0939.0	0940.0	1.0	200.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

LEAR = Learmonth

PALE = Palehua

SGMR = Sagamore Hill

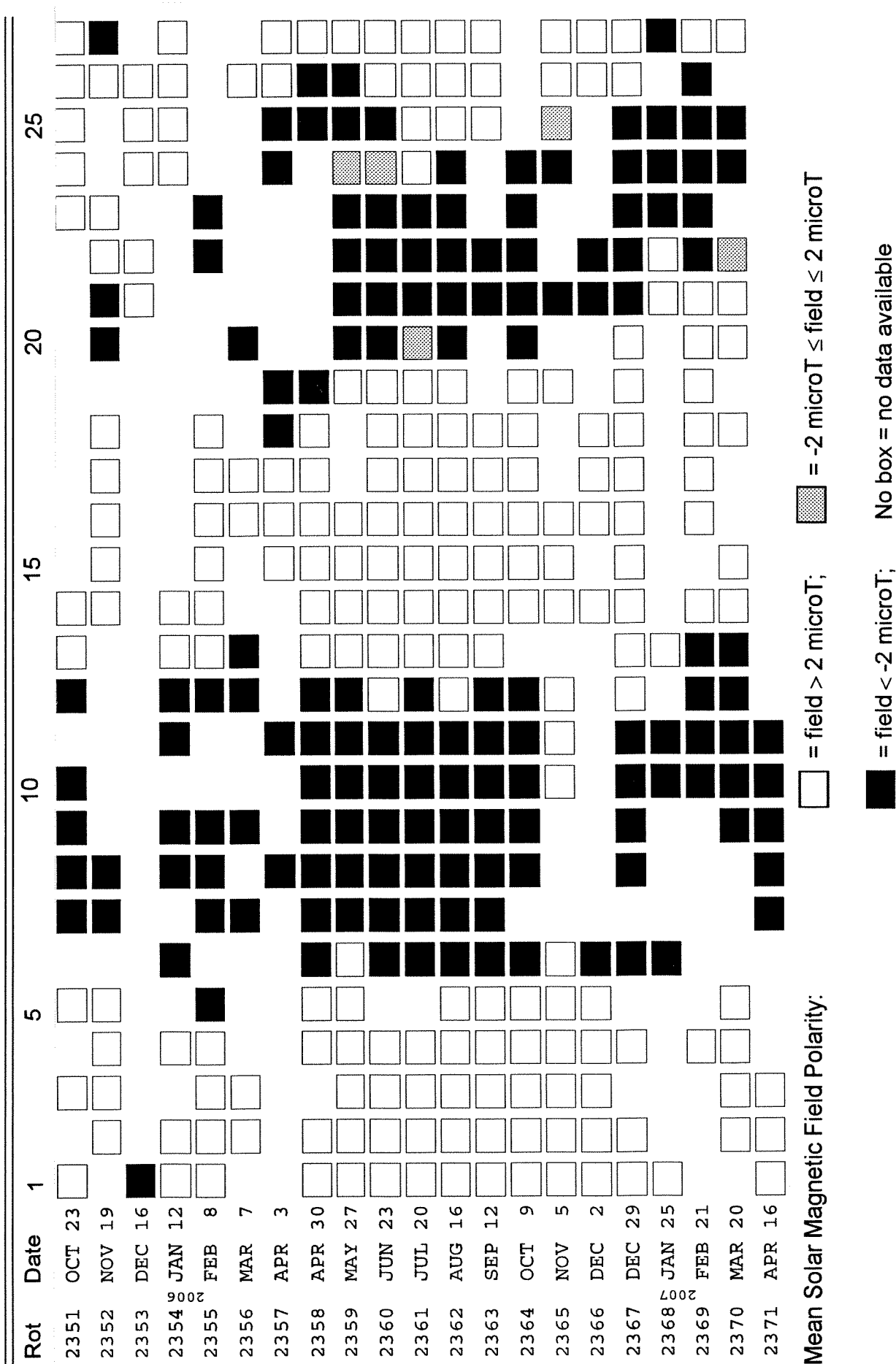
SVTO = San Vito

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 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	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 Hiraio, Japan 500 and 200 MHz.

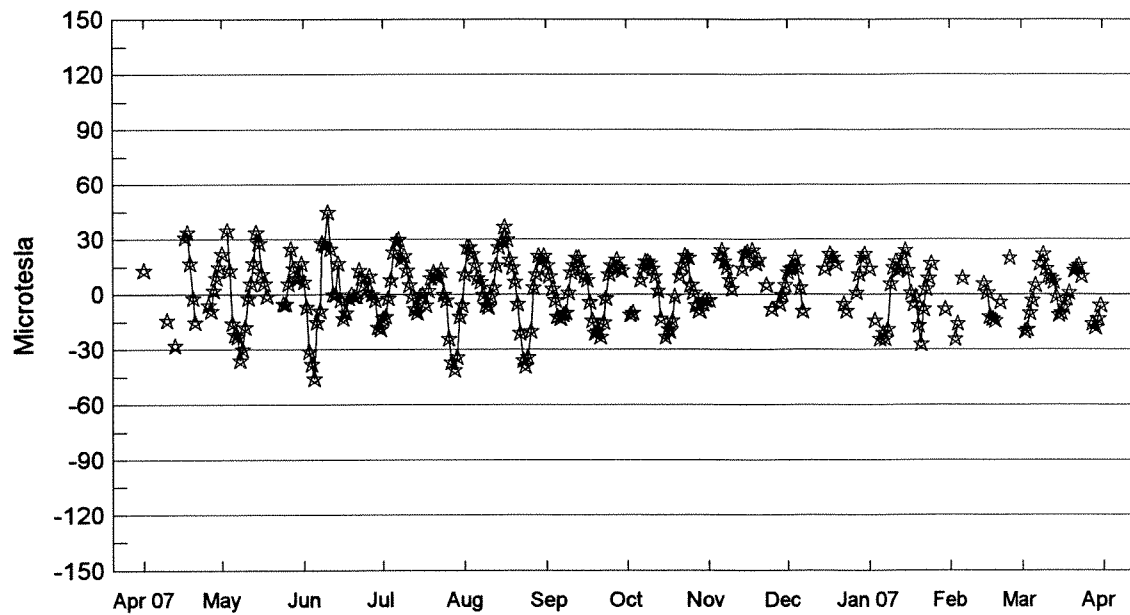
STANFORD MEAN SOLAR MAGNETIC FIELD



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

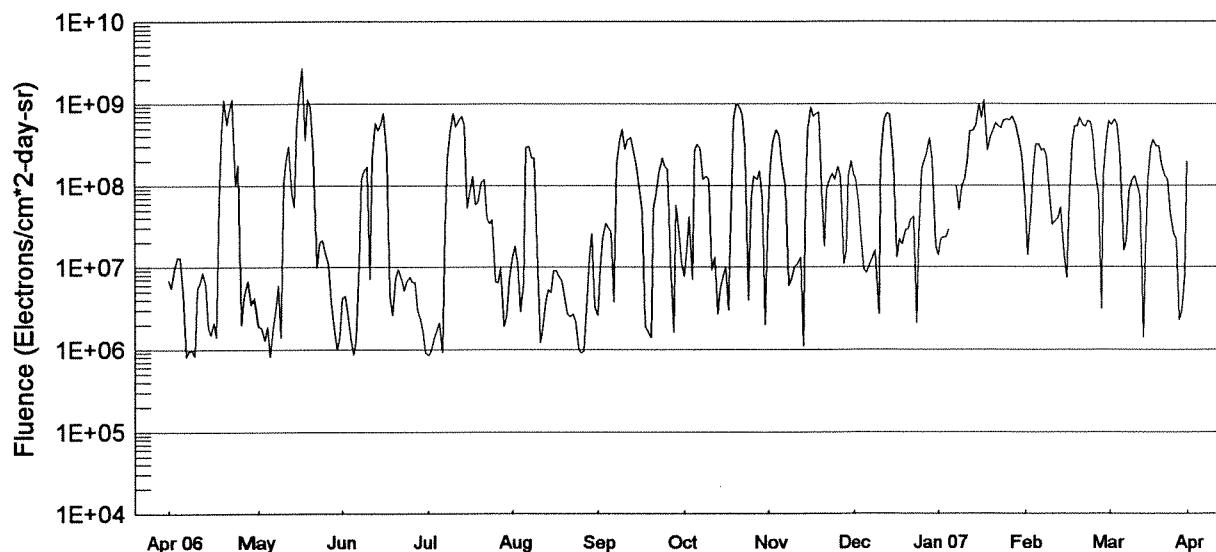
Stanford Mean Solar Magnetic Field (Microtesla) "Sun-As-A-Star"

31
Mar 07



Day	Apr 06	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 07	Feb	Mar
1	13	22	7	-13	11	16	—	-3	12	14	—	—
2	—	—	-7	-12	26	10	-11	—	14	—	—	-20
3	—	35	-31	-2	26	3	-10	—	15	-14	-24	-19
4	—	13	-38	8	22	-3	—	—	20	—	-16	-10
5	—	-16	-46	23	16	-12	—	21	15	-24	—	-3
6	—	-22	-15	29	9	-13	8	24	4	-21	9	5
7	—	-23	-9	30	7	-11	15	18	-9	-24	—	—
8	—	-36	28	19	0	-10	18	15	—	-19	—	17
9	—	-30	27	21	-6	1	18	8	—	6	—	22
10	-14	-18	45	13	-7	12	17	3	—	15	—	14
11	—	-2	25	5	-1	16	14	—	—	18	—	10
12	—	6	—	-1	4	20	10	—	—	13	—	9
13	-28	17	—	-8	16	20	2	—	—	15	—	7
14	—	34	17	-10	26	14	-13	14	—	21	6	-1
15	—	28	-3	-1	29	10	—	22	14	24	1	-11
16	.	11	-13	0	37	8	-23	23	—	13	-12	-10
17	31	6	-10	-6	30	-4	-19	—	22	1	-13	-7
18	34	-1	-2	2	19	-14	-20	24	20	-5	-14	-2
19	17	—	0	9	15	-21	-14	17	17	-1	—	1
20	-2	—	-1	12	7	-20	-1	19	—	-17	-4	—
21	-15	—	-1	10	-5	-23	—	—	—	-27	—	13
22	—	—	13	9	-21	-15	10	—	-5	-8	—	15
23	—	—	9	13	-36	-2	16	5	-9	3	—	16
24	—	-5	5	—	-39	11	21	—	—	9	20	10
25	—	-5	1	-3	-34	16	20	-8	—	17	—	—
26	-6	6	10	-24	-20	15	5	—	—	—	—	—
27	-9	25	—	-37	4	19	1	—	1	—	—	—
28	2	14	-3	-41	11	15	-6	-5	11	—	—	-16
29	9	9	-18	-34	21	13	-9	0	20	—	—	-18
30	15	9	-19	-12	19	—	-5	5	22	-8	—	-13
31	—	17	—	-6	21	—	-3	—	—	—	—	-6

GOES Daily Electron Fluence Apr 2006 - Mar 2007



Day	Apr 06	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 07	Feb	Mar
1	1.9E+06	4.2E+06	8.5E+05	1.3E+07	2.6E+06	7.7E+06	3.9E+07	1.4E+08	1.4E+07	7.0E+07	6.1E+08	2.0E+08
2	1.8E+06	4.4E+06	9.5E+05	1.8E+07	1.0E+07	1.6E+07	1.7E+08	1.2E+08	2.2E+07	1.4E+07	5.5E+08	2.5E+08
3	1.3E+06	2.6E+06	1.3E+06	1.1E+07	2.3E+07	4.2E+07	3.5E+08	5.7E+07	2.3E+07	4.9E+07	6.4E+08	2.9E+08
4	1.9E+06	1.3E+06	1.7E+06	2.9E+06	3.4E+07	7.0E+06	4.8E+08	2.1E+07	2.3E+07	1.6E+08	5.6E+08	1.9E+08
5	8.2E+05	8.6E+05	2.1E+06	6.3E+06	3.0E+07	2.7E+08	4.2E+08	9.2E+06	2.9E+07	3.2E+08	2.4E+08	2.5E+07
6	1.9E+06	1.3E+06	9.2E+05	2.9E+08	2.7E+07	3.2E+08	1.9E+08	8.5E+06	-999	3.2E+08	1.6E+07	1.1E+07
7	3.1E+06	1.1E+07	2.8E+07	3.0E+08	3.8E+06	2.8E+08	1.0E+08	1.1E+07	-999	2.7E+08	2.1E+07	1.4E+08
8	6.0E+06	1.2E+08	2.2E+08	2.2E+08	1.8E+08	1.2E+08	6.0E+06	1.3E+07	1.0E+08	2.8E+08	8.3E+07	9.6E+08
9	1.4E+06	1.5E+08	4.9E+08	2.2E+08	3.6E+08	1.3E+08	7.1E+06	1.6E+07	5.0E+07	2.4E+08	1.2E+08	8.4E+08
10	1.1E+08	1.7E+08	7.6E+08	9.5E+06	4.9E+08	1.2E+08	1.0E+07	2.7E+06	1.0E+08	7.9E+07	1.3E+08	2.5E+08
11	2.1E+08	7.2E+06	5.2E+08	1.2E+06	2.8E+08	9.2E+06	1.1E+07	2.2E+08	1.2E+08	3.3E+07	1.0E+08	8.0E+07
12	3.0E+08	2.2E+08	6.1E+08	1.9E+06	3.6E+08	1.3E+07	1.3E+07	6.3E+08	2.0E+08	3.6E+07	7.6E+07	4.5E+06
13	8.1E+07	5.7E+08	7.0E+08	4.0E+06	3.9E+08	2.7E+06	1.1E+06	7.6E+08	4.6E+08	4.0E+07	1.4E+06	2.2E+07
14	5.5E+07	4.7E+08	5.6E+08	5.3E+06	2.7E+08	5.3E+06	6.5E+07	7.3E+08	4.7E+08	5.4E+07	1.6E+07	6.8E+07
15	5.0E+08	5.6E+08	5.4E+07	4.9E+06	1.9E+08	7.8E+06	5.0E+08	2.0E+08	5.4E+08	1.4E+07	1.1E+08	1.0E+08
16	1.5E+09	7.6E+08	8.9E+07	9.1E+06	9.5E+07	1.0E+07	9.0E+08	1.3E+07	1.0E+09	7.4E+06	2.9E+08	1.0E+08
17	2.7E+09	2.4E+08	1.3E+08	9.0E+06	4.9E+07	3.0E+06	7.0E+08	2.2E+07	6.7E+08	6.3E+07	3.6E+08	1.8E+08
18	3.6E+08	4.4E+06	5.9E+07	7.6E+06	1.9E+06	3.6E+07	7.5E+08	1.9E+07	1.1E+09	3.3E+08	3.0E+08	2.0E+08
19	1.1E+09	2.6E+06	6.3E+07	6.9E+06	1.6E+06	6.5E+08	7.7E+08	2.8E+07	2.7E+08	5.3E+08	3.0E+08	2.1E+08
20	9.3E+08	7.6E+06	1.1E+08	4.1E+06	1.4E+06	9.8E+08	9.1E+07	2.9E+07	3.8E+08	5.3E+08	1.8E+08	2.1E+08
21	2.5E+08	9.3E+06	1.2E+08	2.7E+06	5.4E+07	9.5E+08	1.8E+07	3.8E+07	4.5E+08	6.7E+08	1.3E+08	2.0E+08
22	9.9E+06	7.1E+06	4.0E+07	2.5E+06	7.8E+07	7.4E+08	9.0E+07	4.2E+07	5.8E+08	5.5E+08	1.2E+08	1.0E+08
23	2.0E+07	5.2E+06	3.4E+07	2.7E+06	1.5E+08	2.9E+08	1.2E+08	2.1E+06	5.3E+08	5.2E+08	4.4E+07	1.6E+07
24	2.1E+07	6.7E+06	3.8E+07	2.2E+06	2.2E+08	4.0E+06	1.4E+08	2.4E+07	5.1E+08	6.1E+08	2.5E+07	1.9E+06
25	1.4E+07	7.5E+06	6.6E+06	9.9E+05	1.7E+08	6.8E+07	1.2E+08	1.6E+08	6.2E+08	5.9E+08	2.2E+07	4.0E+06
26	1.1E+07	6.5E+06	6.4E+06	9.1E+05	1.6E+08	1.3E+08	1.7E+08	2.0E+08	6.4E+08	4.1E+08	2.3E+06	5.4E+06
27	3.7E+06	6.5E+06	9.7E+06	9.5E+05	1.2E+07	1.2E+08	1.3E+08	2.5E+08	6.3E+08	1.4E+08	2.9E+06	7.6E+06
28	1.7E+06	3.0E+06	1.9E+06	4.0E+06	1.6E+06	1.5E+08	1.1E+07	3.8E+08	6.9E+08	7.6E+07	7.9E+06	9.9E+06
29	1.0E+06	2.3E+06	2.5E+06	1.3E+07	5.7E+07	7.1E+07	1.6E+07	2.1E+08	5.5E+08	3.1E+06		1.6E+07
30	1.4E+06	1.6E+06	6.9E+06	2.6E+07	3.2E+07	2.0E+06	1.3E+08	1.8E+07	3.9E+08	1.4E+08		6.3E+06
31		9.0E+05		3.3E+06	1.1E+07		2.0E+08		2.3E+08	3.6E+08		4.8E+06

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.

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Number 752 Part I

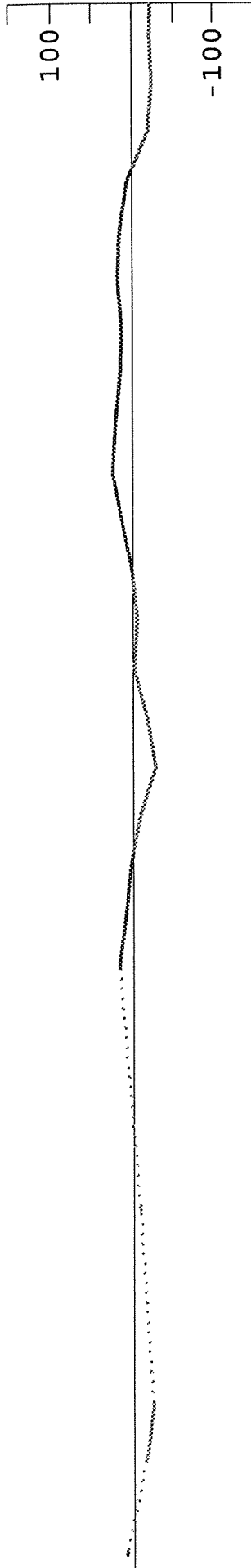
DATA FOR FEBRUARY 2007

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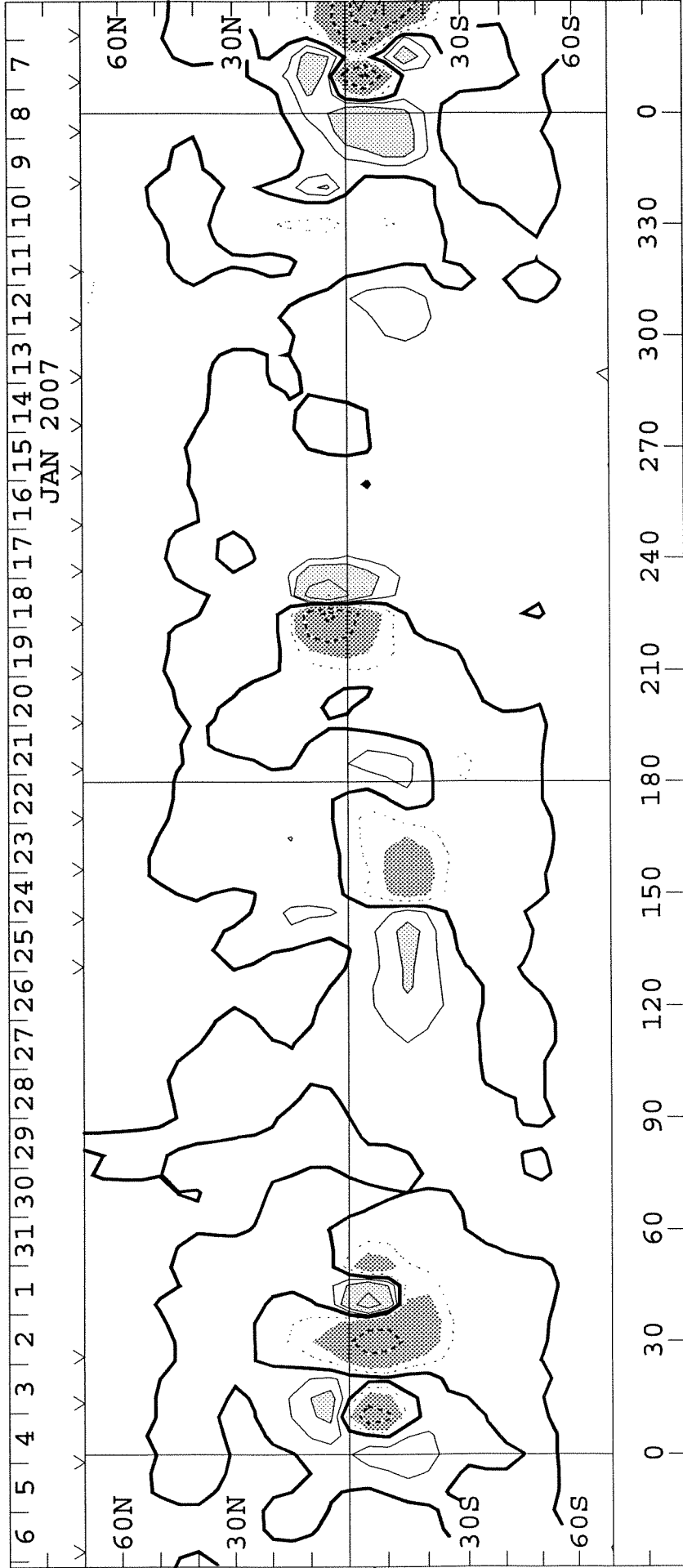
SOLAR MAGNETIC FIELD SYNOPTIC CHART
CARRINGTON ROTATION NUMBER 2052
(8 January 2007) to 4 February 2007

WILCOX SOLAR OBSERVATORY

Mean Field



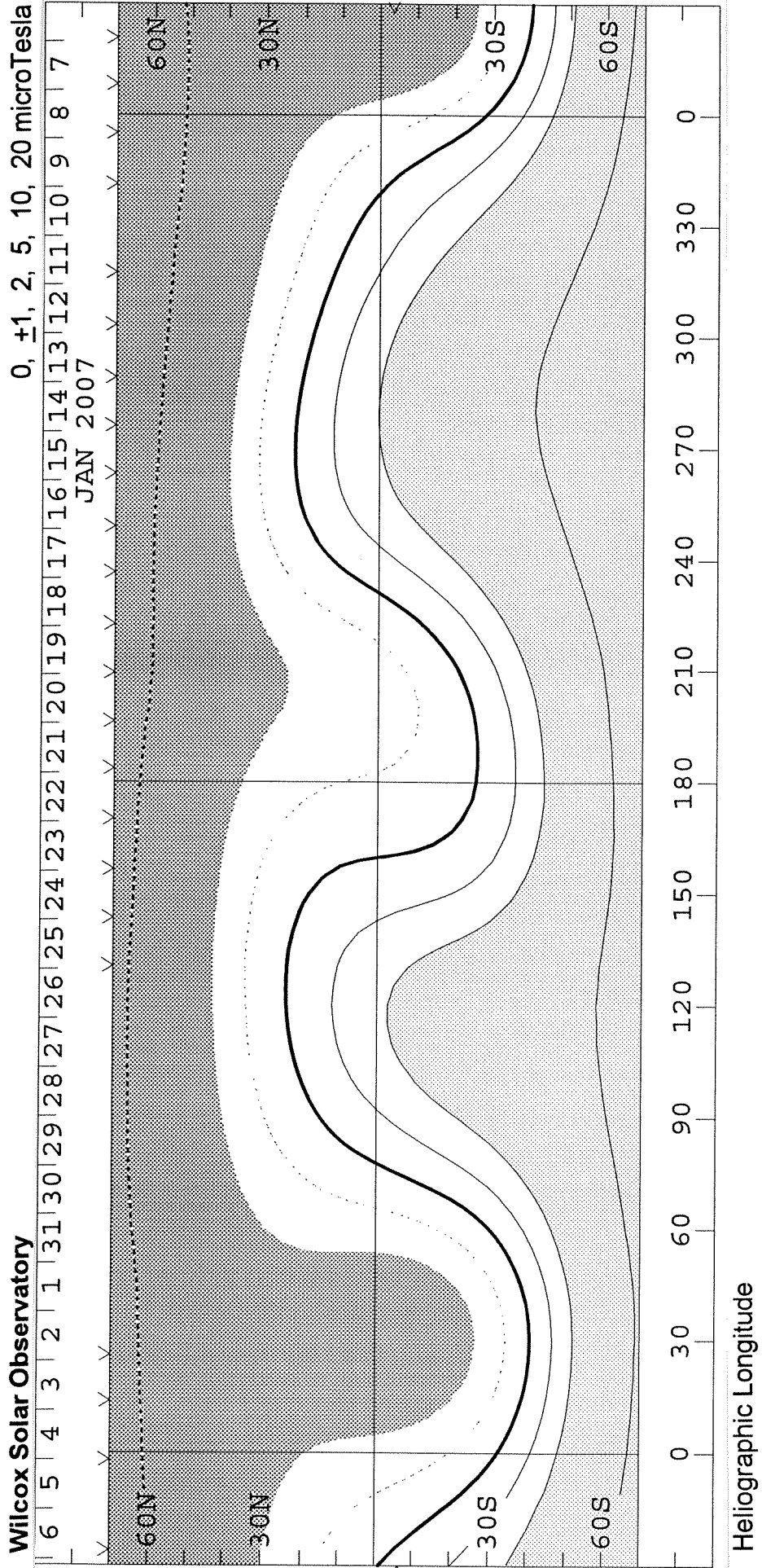
WSO - Photospheric Magnetic Field 0, +100, 200, 500, 1000, 2000 MicroTesla



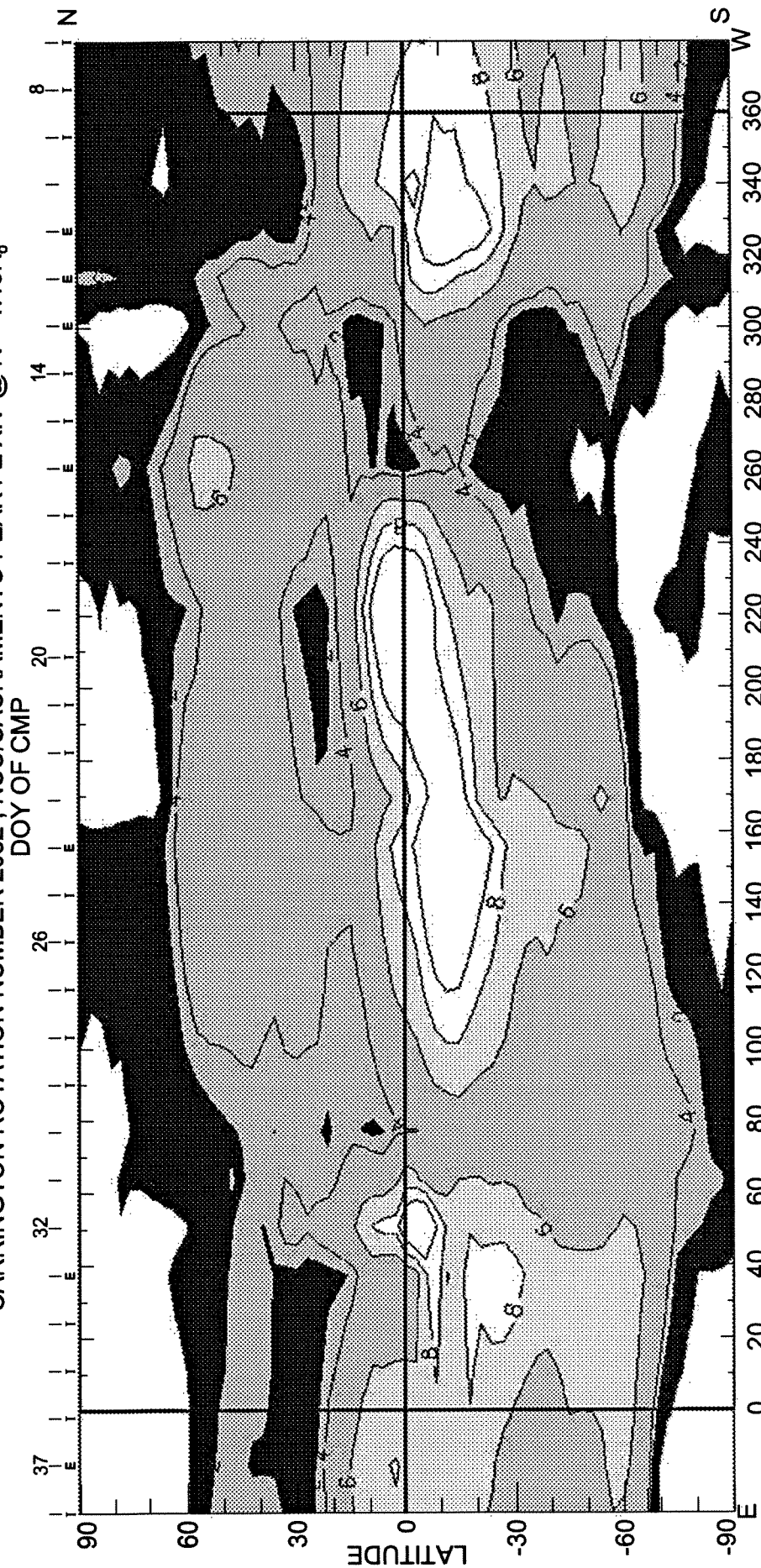
Heliographic Longitude

SOLAR MAGNETIC FIELD SYNOPSIS CHART

SOURCE SURFACE FIELD
CARRINGTON ROTATION NUMBER 2052
(8 January 2007 to 4 February 2007)

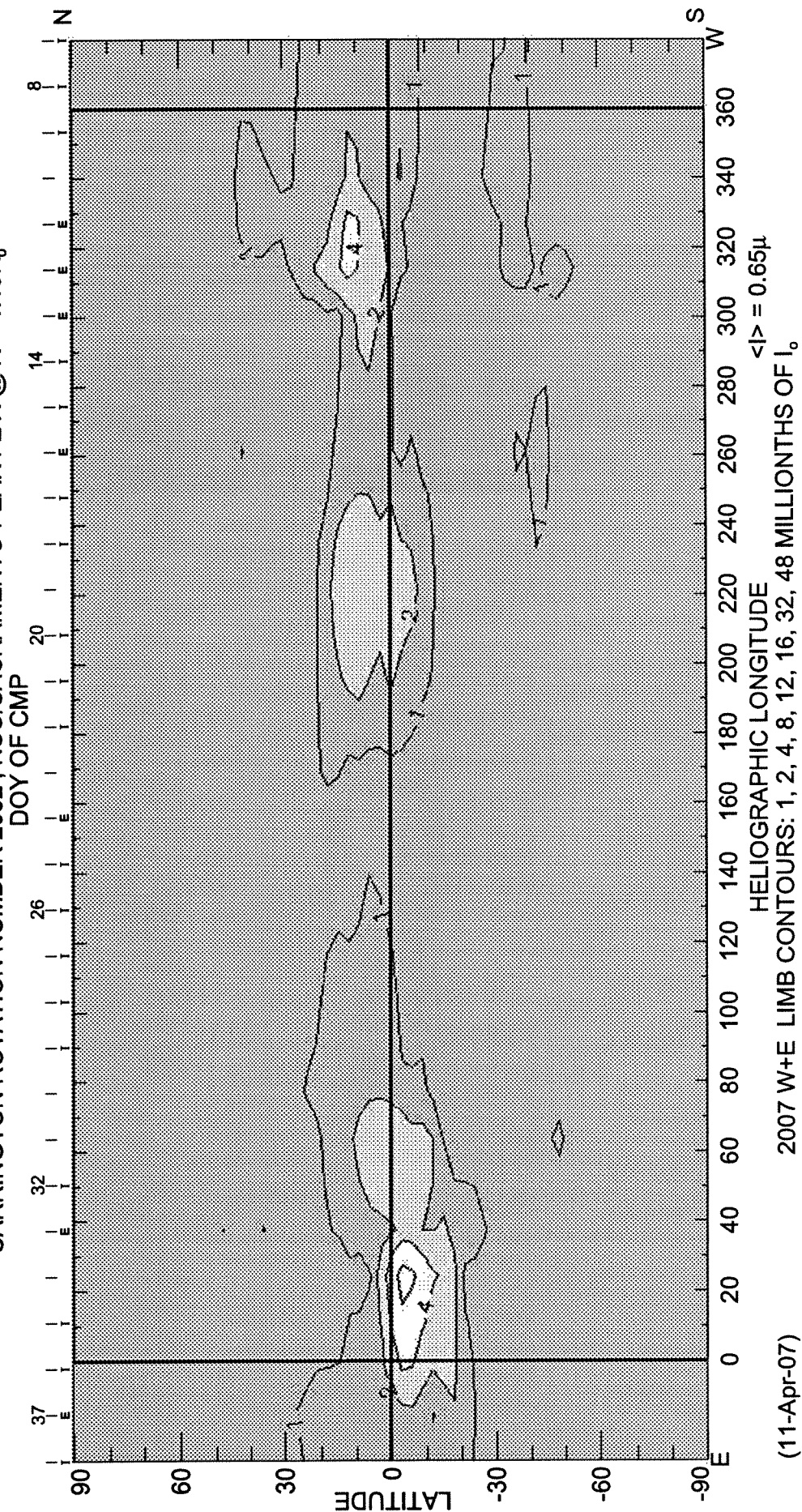


CARRINGTON ROTATION NUMBER 2052 ; NSO/SACRAMENTO PEAK FE XIV @ R = 1.15R_o



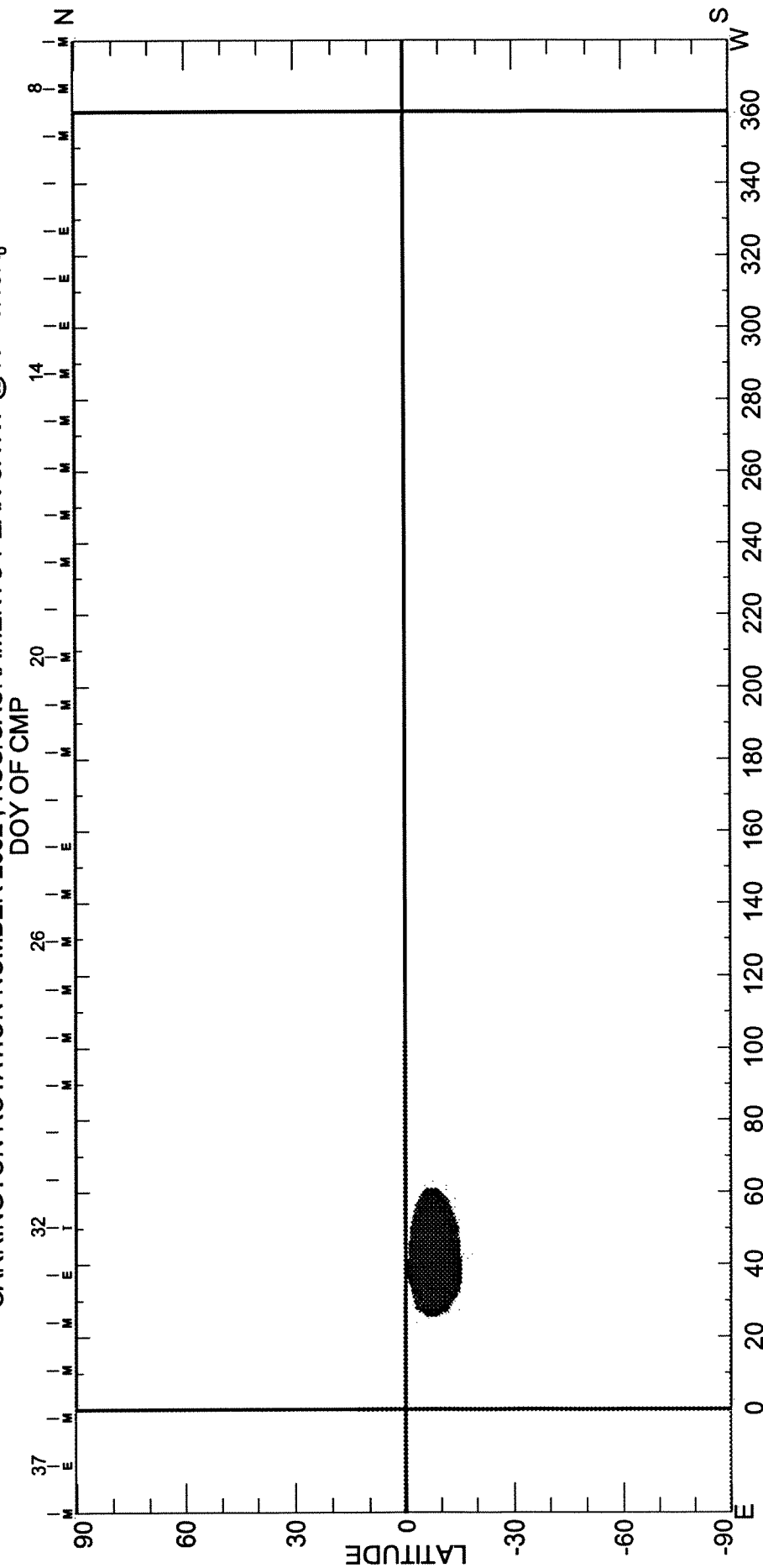
(11-Apr-07) 2007 W+E LIMB CONTOURS: 0.6, 1.5, 2, 4, 6, 8, 16, 25, 30, 35, 40, 100, 120,000 MILLIONTHS OF I_o
 HELIOGRAPHIC LONGITUDE
 CORONAL HOLES ARE SHOWN AS WHITE BORDERED BY BLACK

CARRINGTON ROTATION NUMBER 2052 ; NSO/SACRAMENTO PEAK FEX @ $R = 1.15R_{\odot}$



(11-Apr-07)

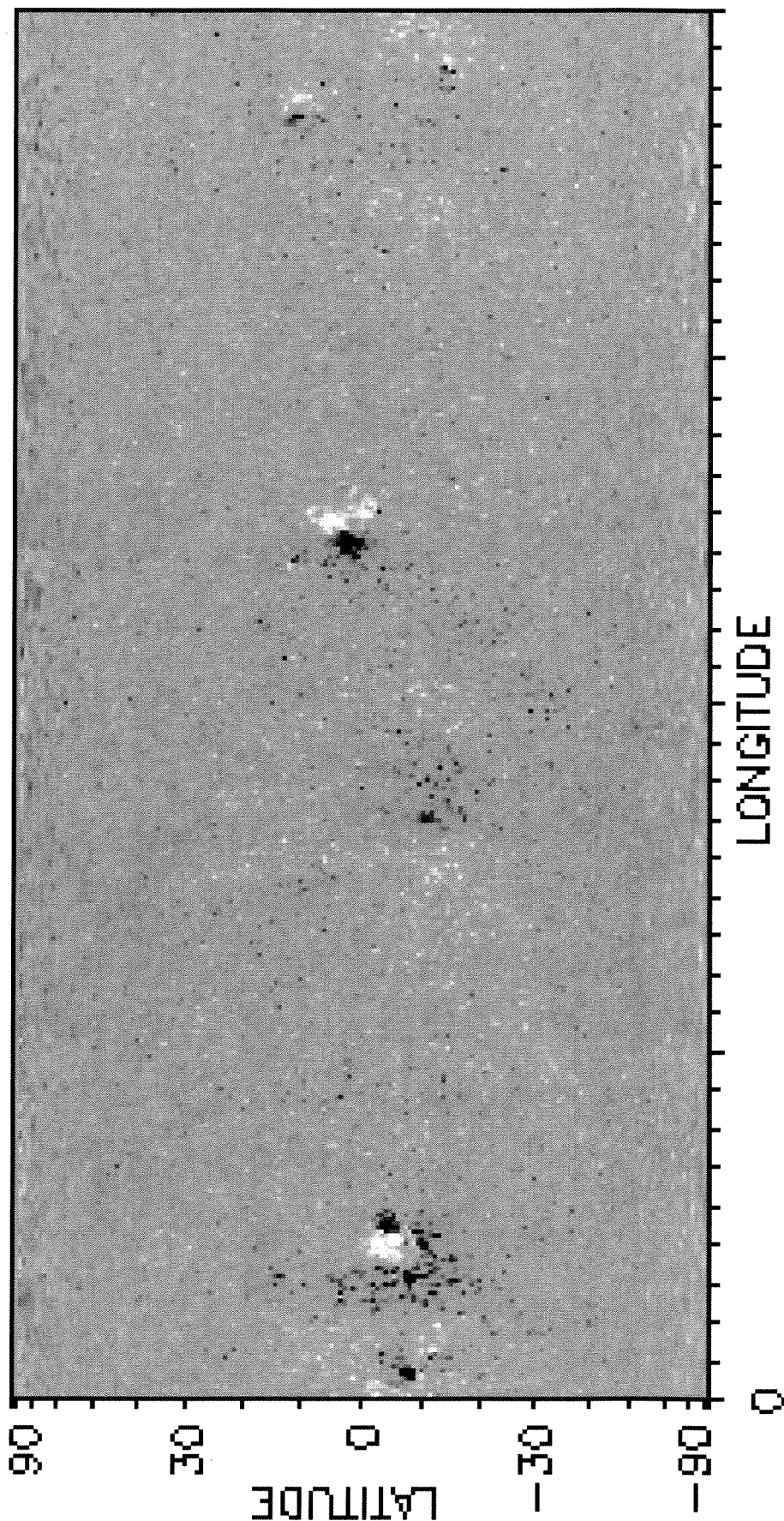
CARRINGTON ROTATION NUMBER 2052 ; NSO/SACRAMENTO PEAK CA XV @ $R = 1.15R_{\odot}$



SOLAR MAGNETIC FIELD SYNOPTIC CHART
CARRINGTON ROTATION NUMBER 2052
(8 January to 4 February 2007)

National Solar Observatory/Kitt Peak

NSO/VSM MAGNETIC FLUX SYNOPTIC MAP
CARRINGTON ROTATION 2052



FEBRUARY 01, 2007 (P=-12.02, Bo=-6.00, Lo= 50.52)

KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -

Solid = +
Dashed = -

STANFORD MAGNETOGRAM

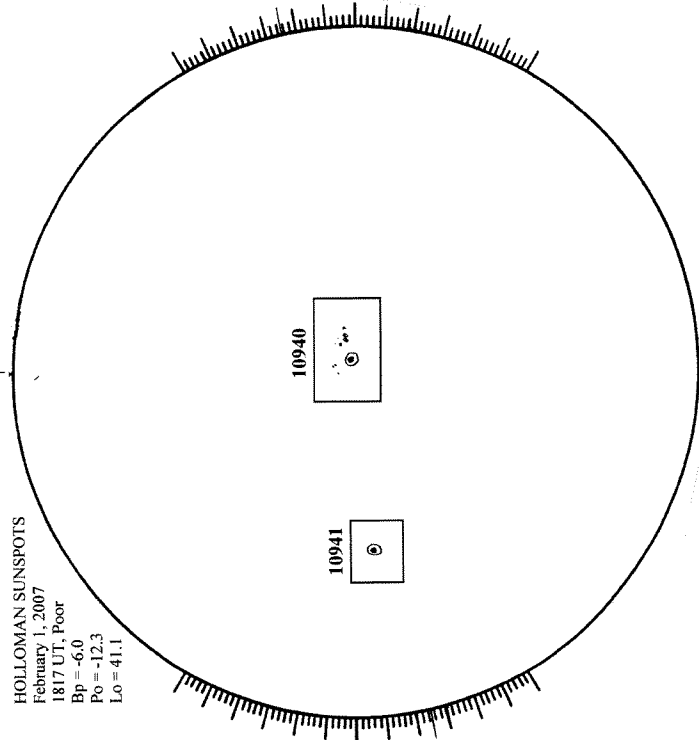
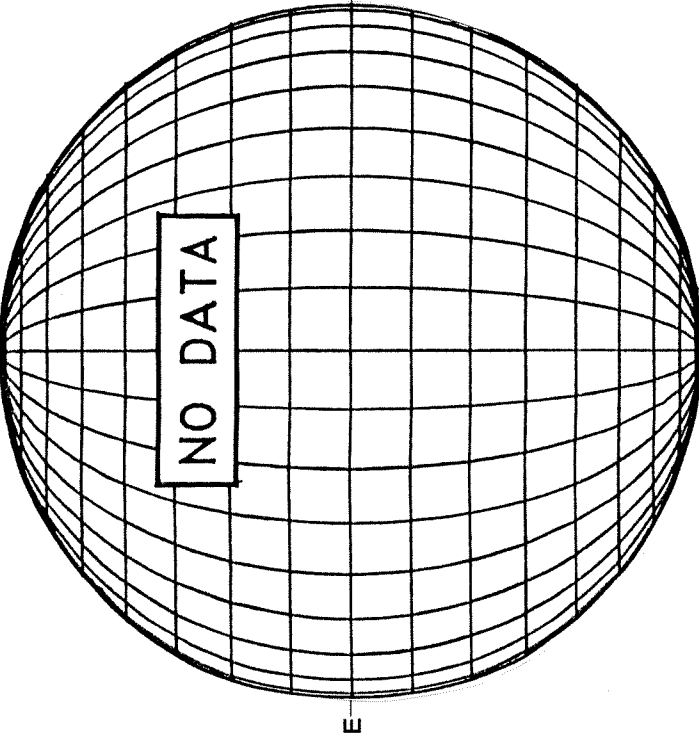
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =

White= +7.5G
Black = -7.5G

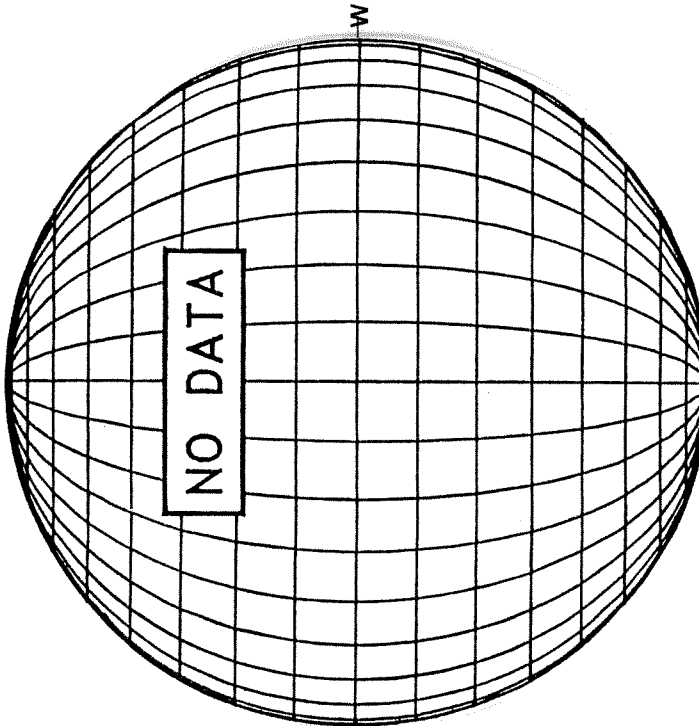
KANZELHOHE H-ALPHA

HOLLOMAN SUNSPOTS



HOLLOMAN SUNSPOTS
February 1, 2007
1817 UT, Poor
Bp = -6.0
Po = -12.3
Lo = 41.1

SACRAMENTO PEAK CORONA (1.15 Radii)----

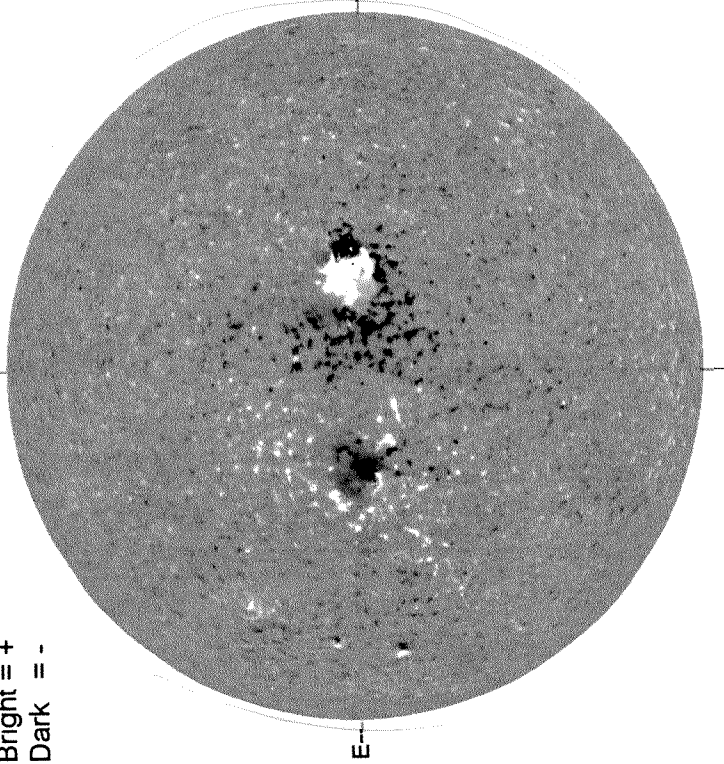


FEBRUARY 02, 2007 (P=-12.42, Bo=-6.07, Lo= 37.36)

KITT PEAK MAGNETOGRAM--SOLIS

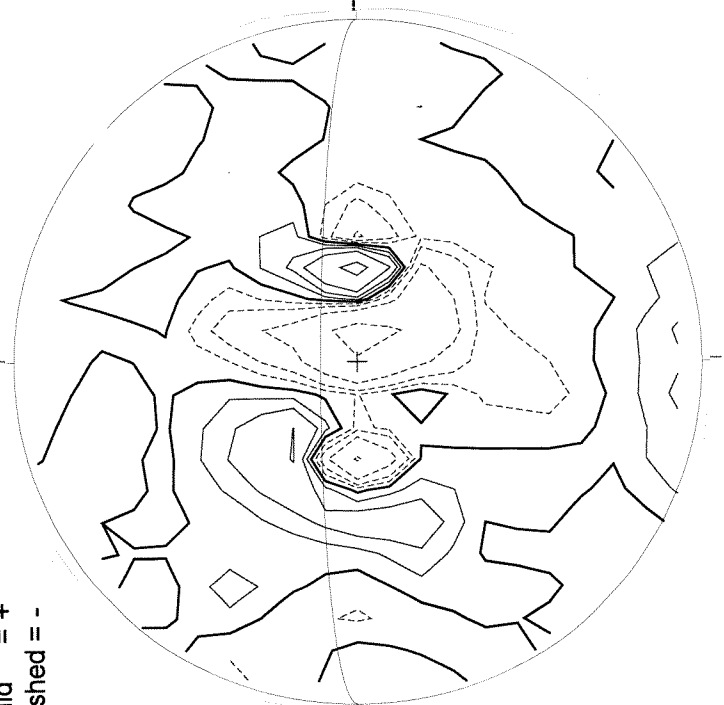
854.2 nm

Bright = +
Dark = -



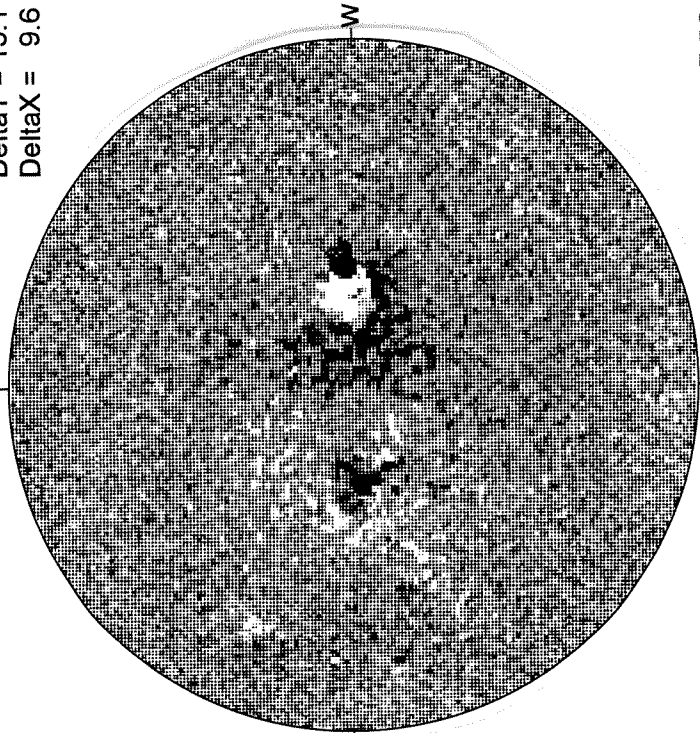
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

DeltaY = 13.1
DeltaX = 9.6



White= +7.5G
Black = -7.5G

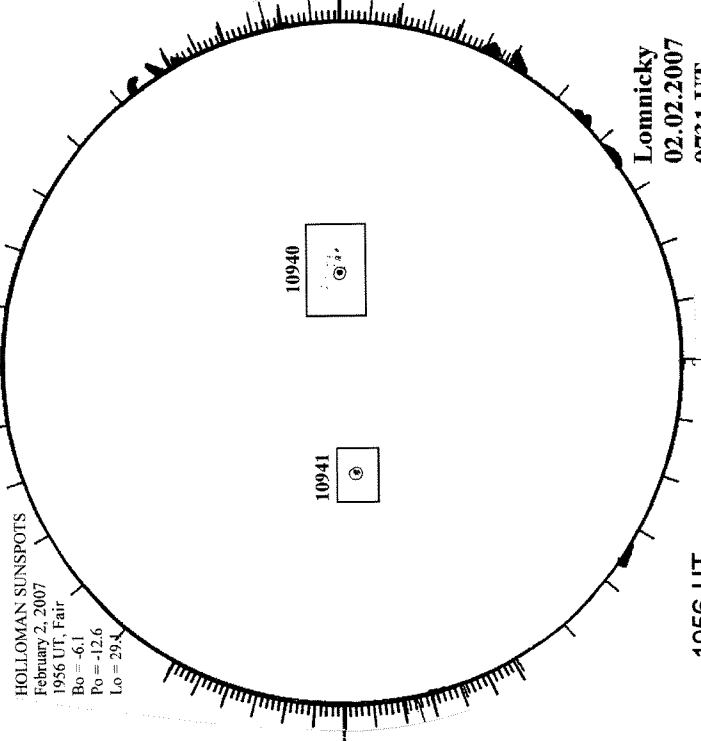
22.16 -
23.14 UT

KANZELHOHE H-ALPHA



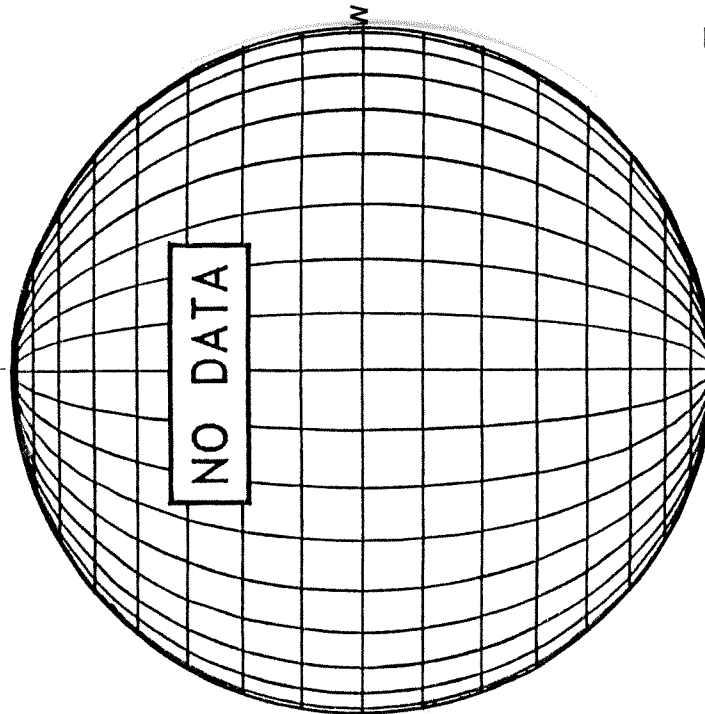
0805 UT

HOLLOMAN SUNSPOTS



1956 UT
0731 UT LOMN Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)---



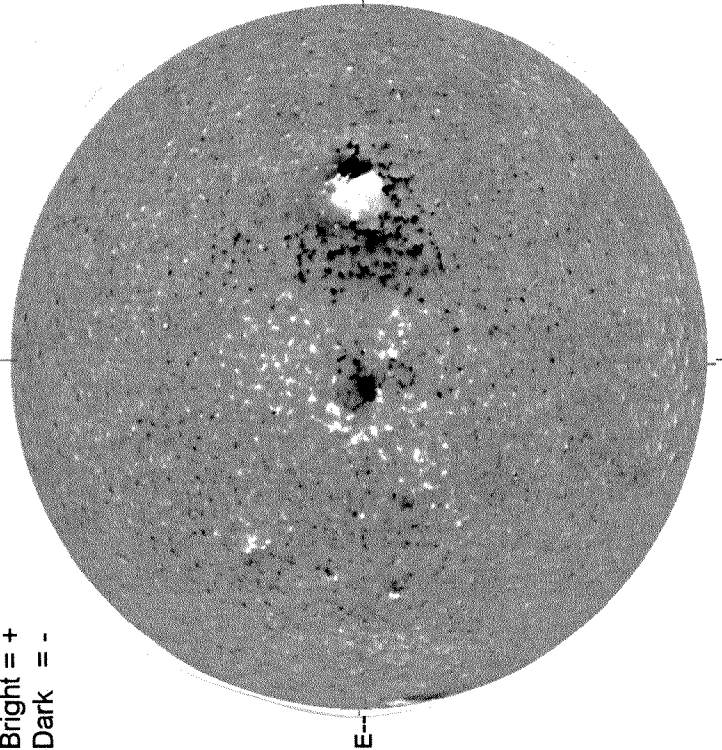
41
Feb 07

FEBRUARY 03, 2007 (P=-12.83, Bo=-6.14, Lo= 24.19)

KITT PEAK MAGNETOGRAM--SOLIS

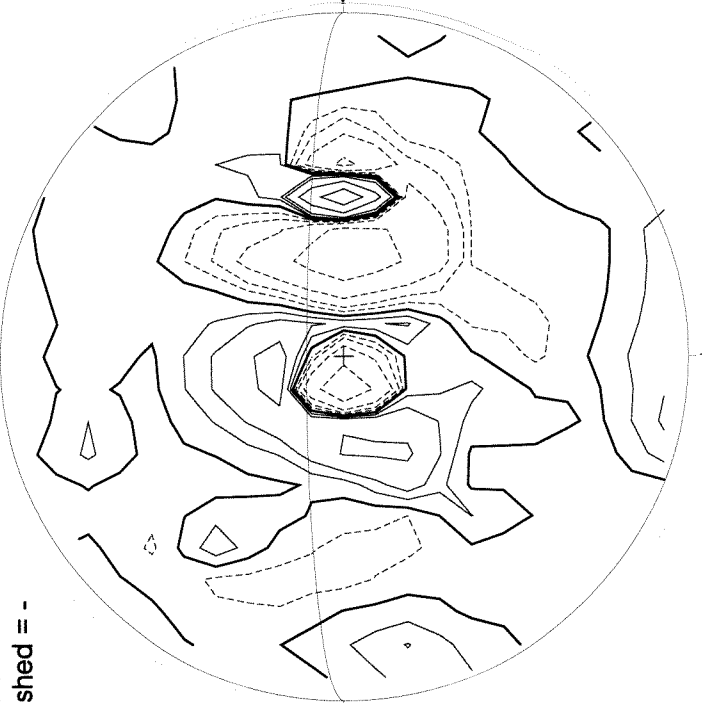
854.2 nm

Bright = +
Dark = -



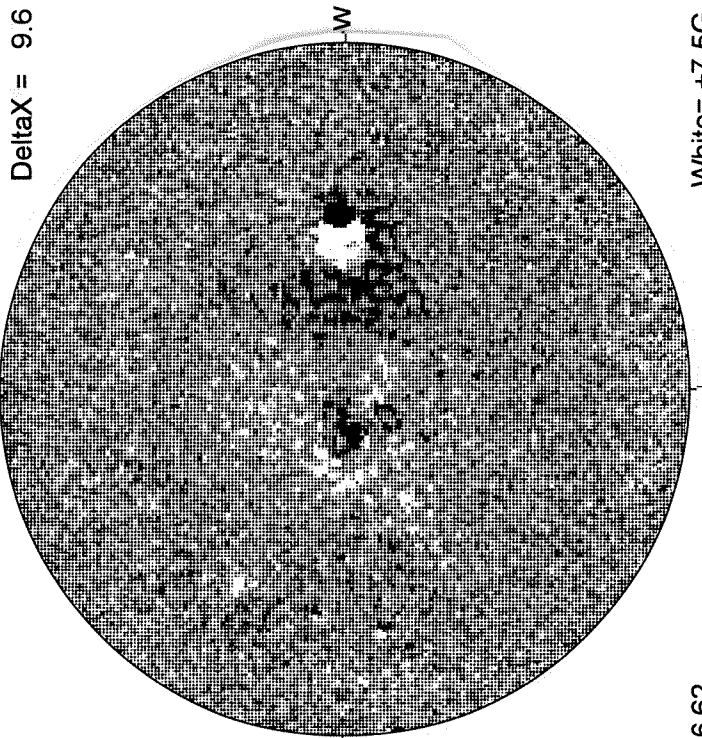
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

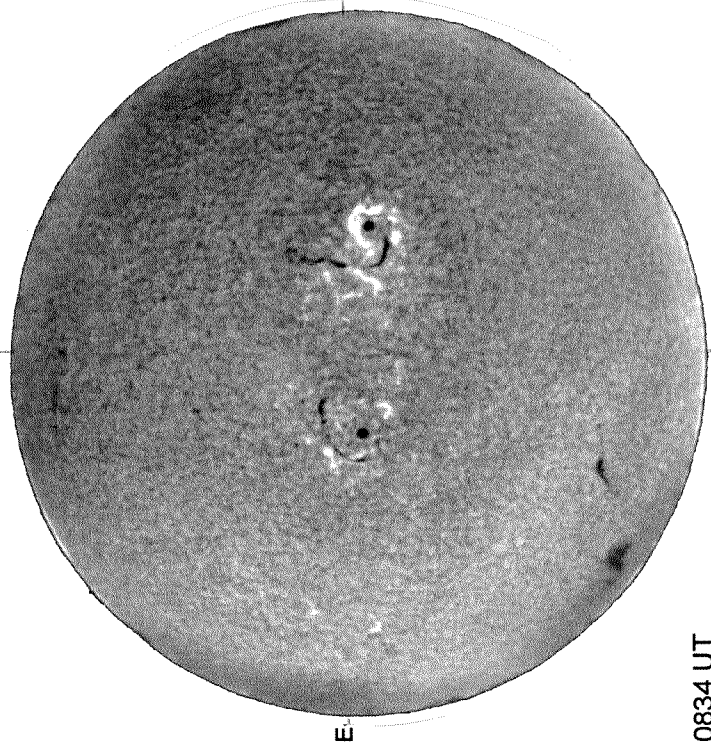
DeltaY = 13.1
DeltaX = 9.6



16.62 -
17.59 UT

White= +7.5G
Black = -7.5G

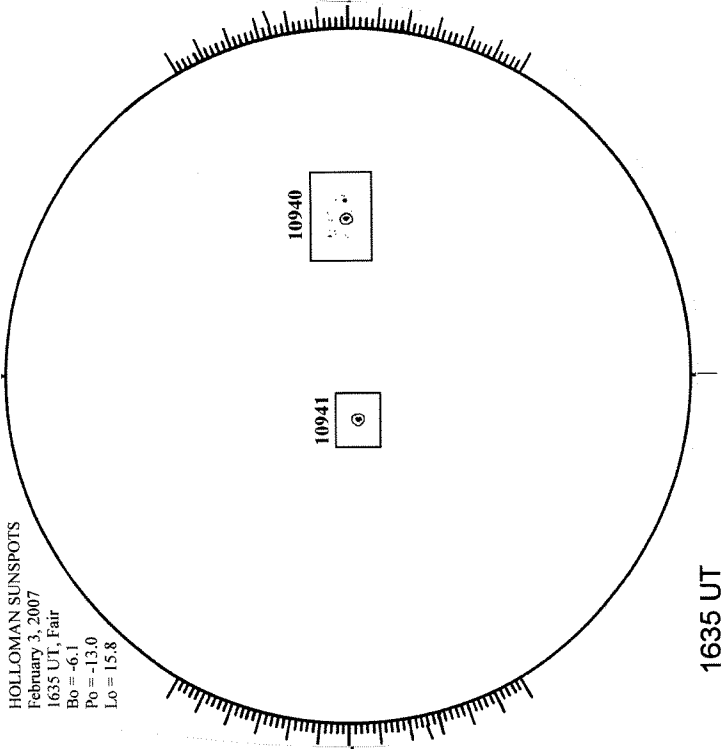
KANZELHOHE H-ALPHA



0834 UT

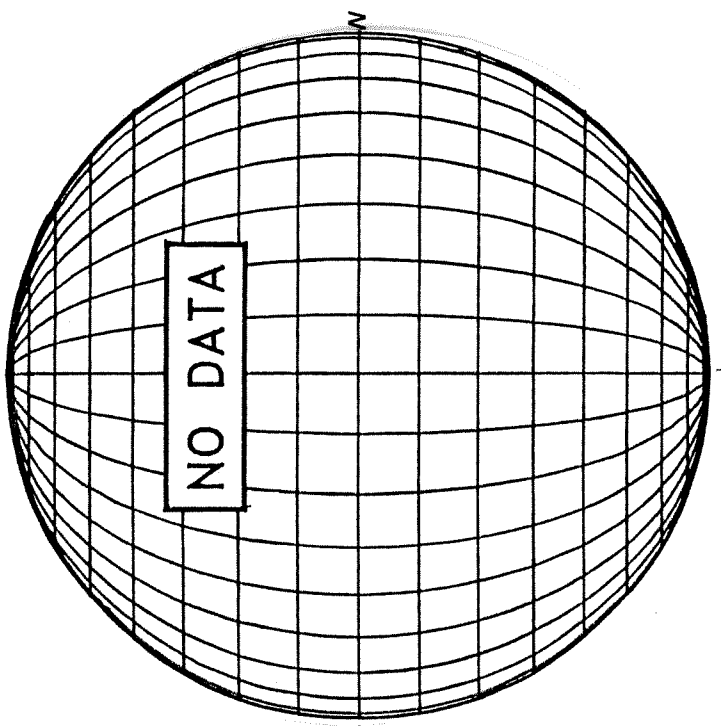
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 3, 2007
1635 UT, Fair
Bo = -6.1
Po = -13.0
Lo = 15.8



1635 UT

SACRAMENTO PEAK CORONA (1.15 Radii)---



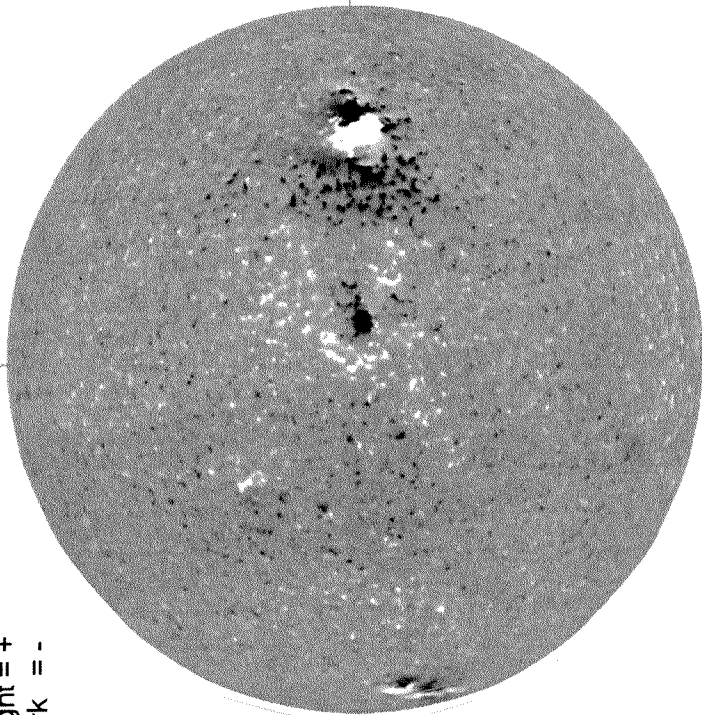
FEBRUARY 04, 2007 (P=-13.22, Bo=-6.21, Lo= 11.02)

KITT PEAK MAGNETOGRAM--SOLIS

854.2 nm

Bright = +
Dark = -

N

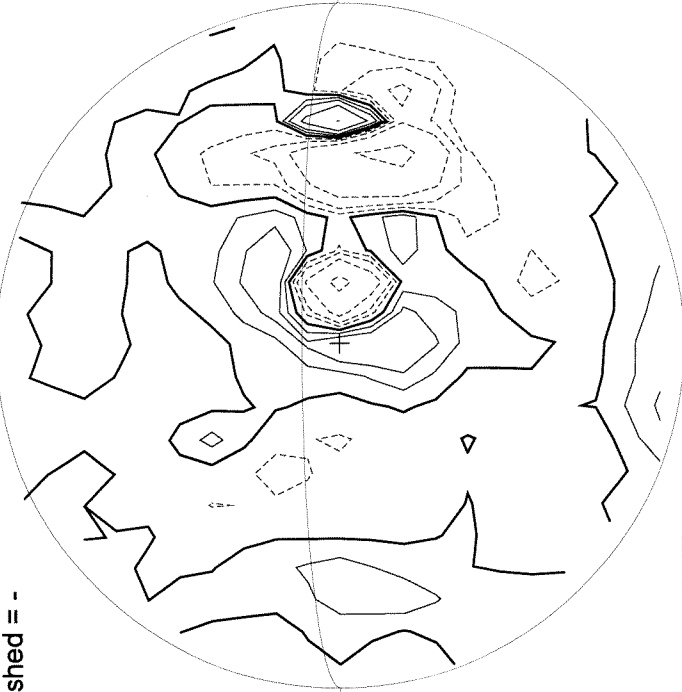


1702 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

N

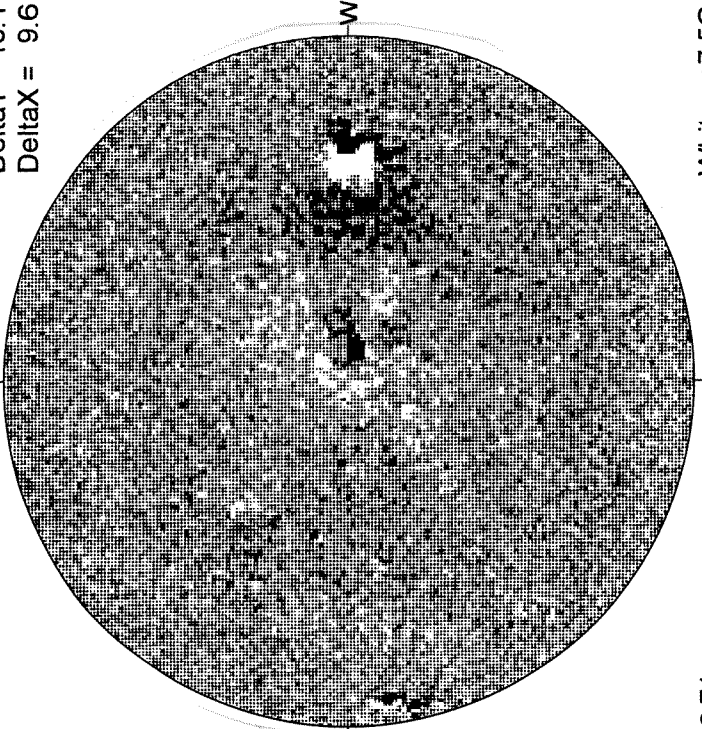


2337 UT

MT. WILSON MAGNETOGRAM

DeltaY = 13.1
DeltaX = 9.6

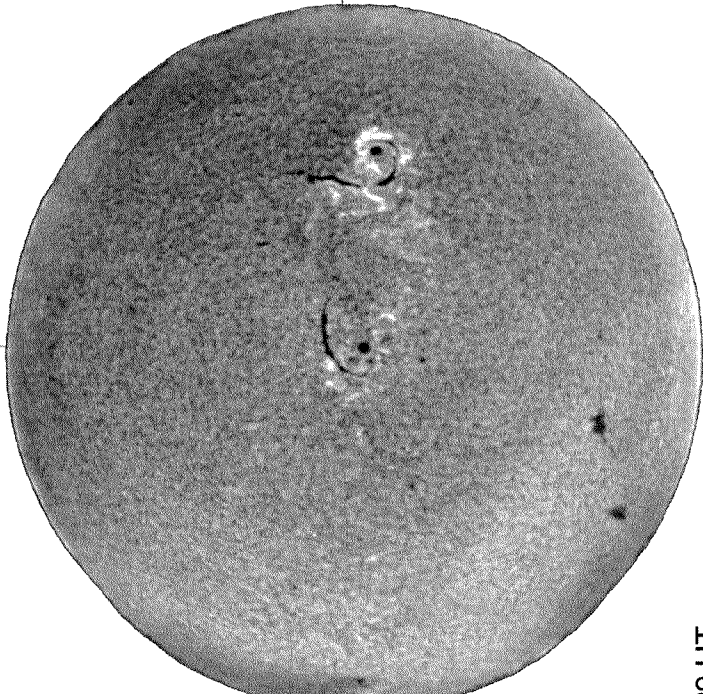
N



16.71 -
17.68 UT

White = +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA



0829 UT

HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 4, 2007
1549 UT, Fair
Bo = -6.2
Po = -13.4
Lo = 2.7

10941

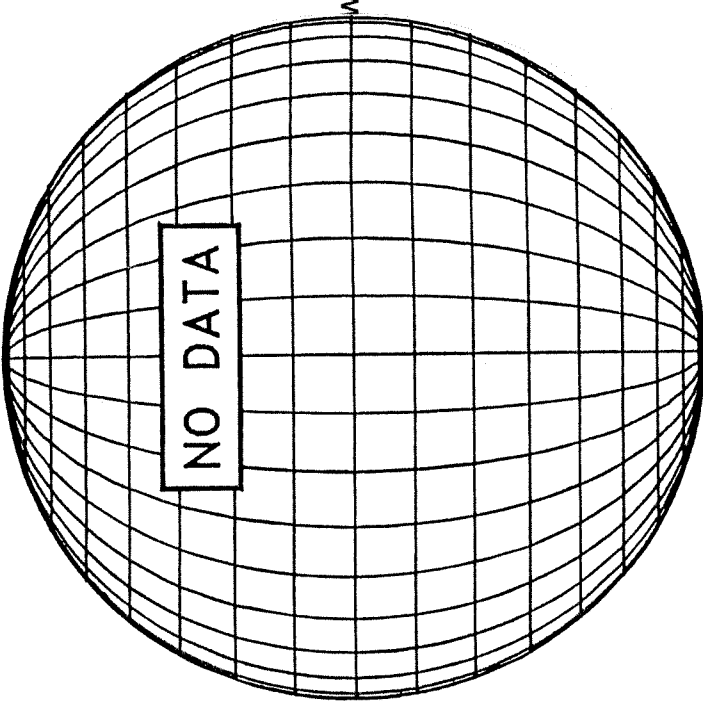
10940



1549 UT

S

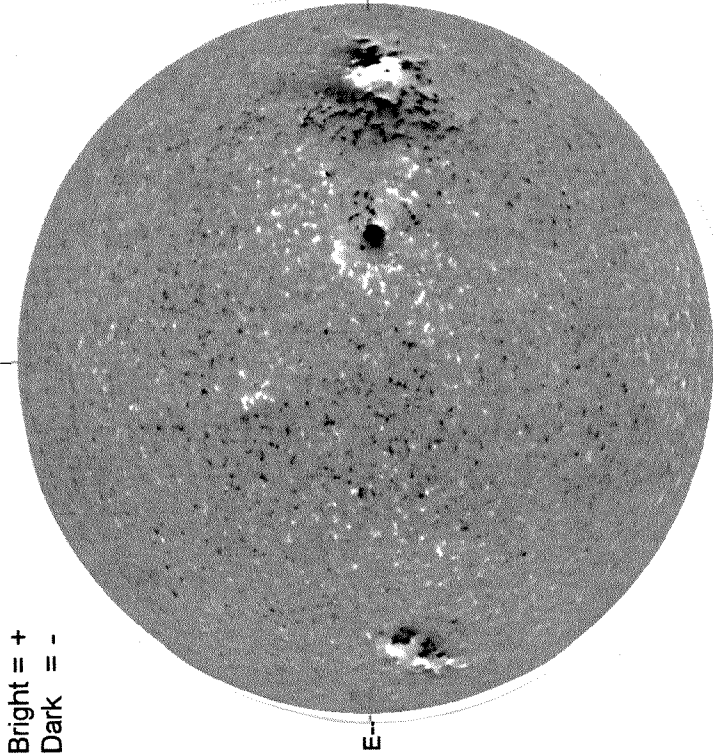
SACRAMENTO PEAK CORONA (1.15 Radii)----



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Feb 07

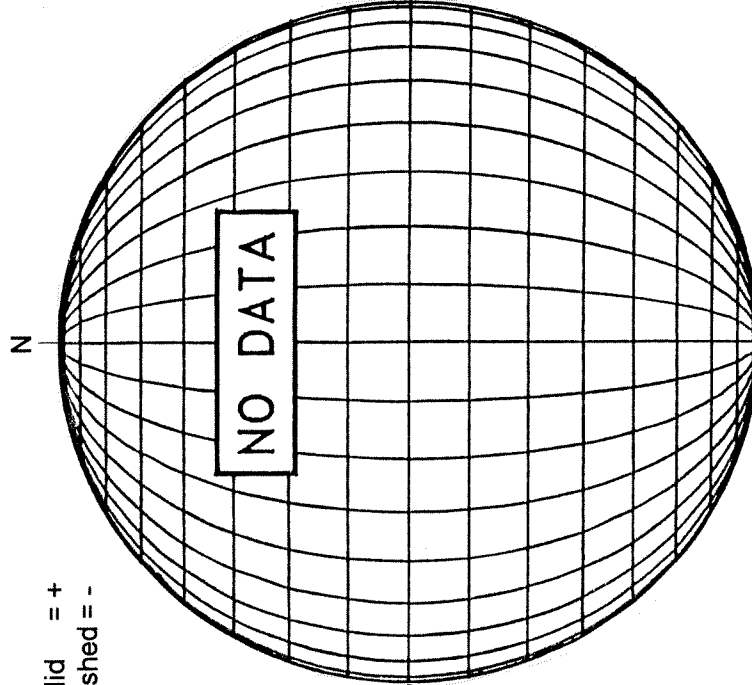
FEBRUARY 05, 2007 (P=-13.62, Bo=-6.27, Lo= 357.86)

KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm



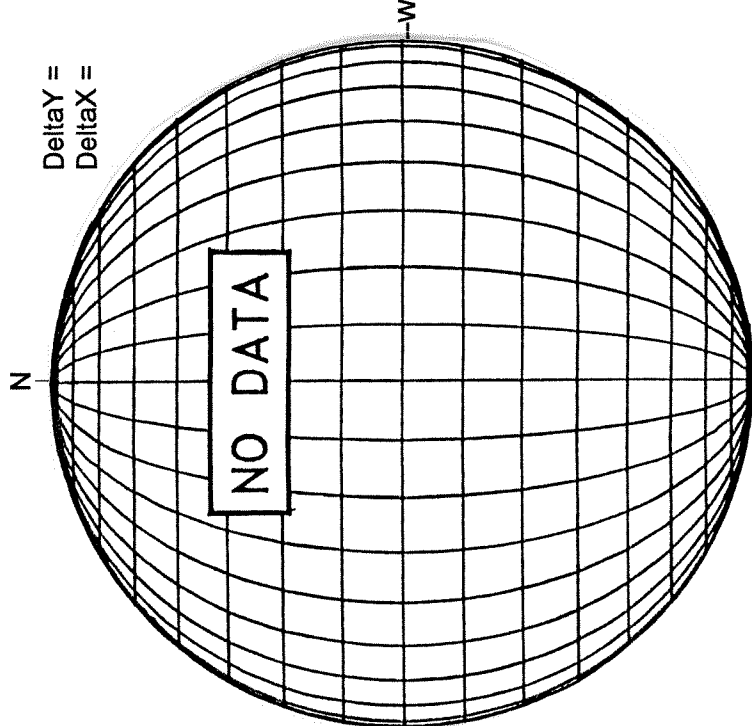
Bright = +
Dark = -

STANFORD MAGNETOGRAM



Solid = +
Dashed = -

MT. WILSON MAGNETOGRAM

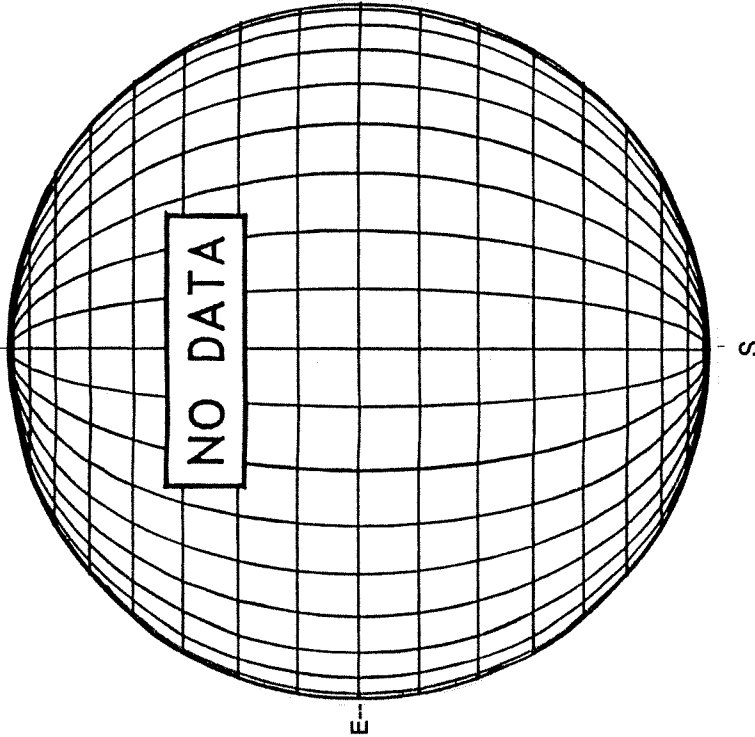


DeltaY =
DeltaX =

White= +7.5G
Black = -7.5G

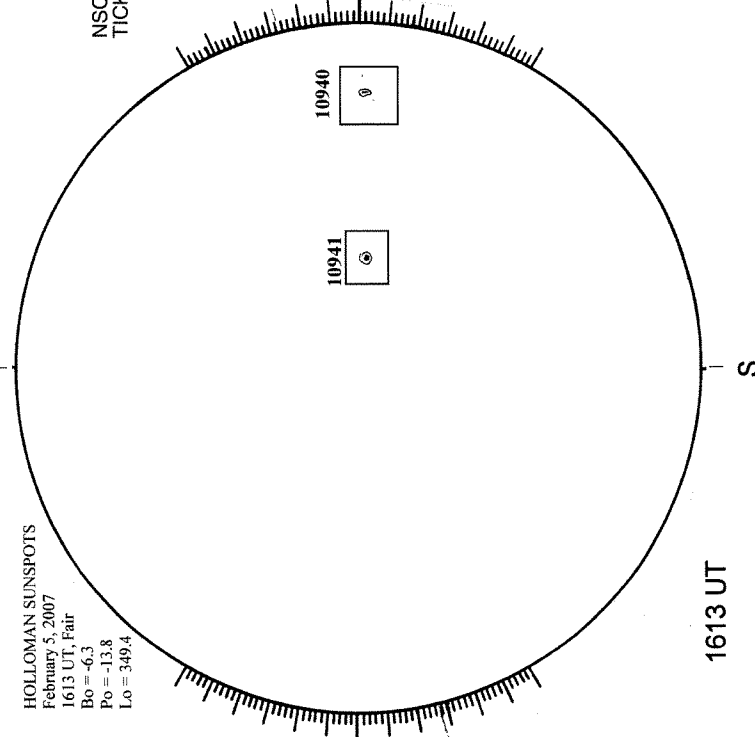
1917 UT

KANZELHOHE H-ALPHA



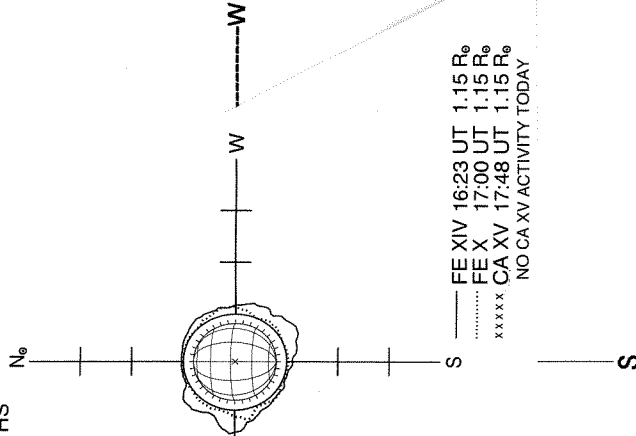
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 5, 2007
1613 UT, Fair
Bo = -6.3
Po = -13.8
Lo = 349.4



SACRAMENTO PEAK CORONA (1.15 Radii)---

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



02/05/07
(DOY 36)

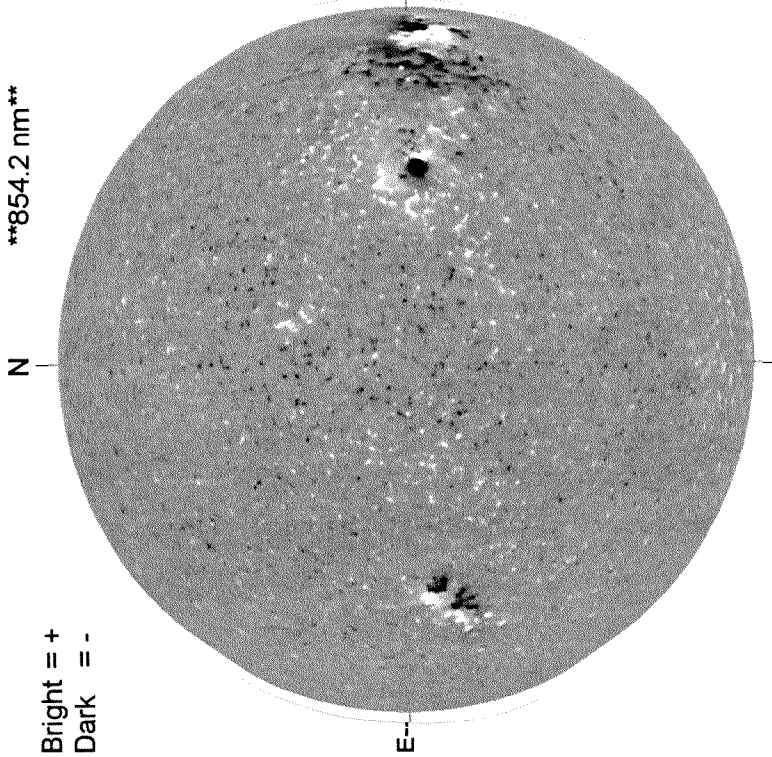
--- FE XIV 16:23 UT 1.15 R_o
..... FE X 17:00 UT 1.15 R_o
xxxxx CA XV 17:48 UT 1.15 R_o
NO CA XV ACTIVITY TODAY

FEBRUARY 06, 2007 (P=-14.00, Bo=-6.34, Lo= 344.69)

KITT PEAK MAGNETOGRAM--SOLIS

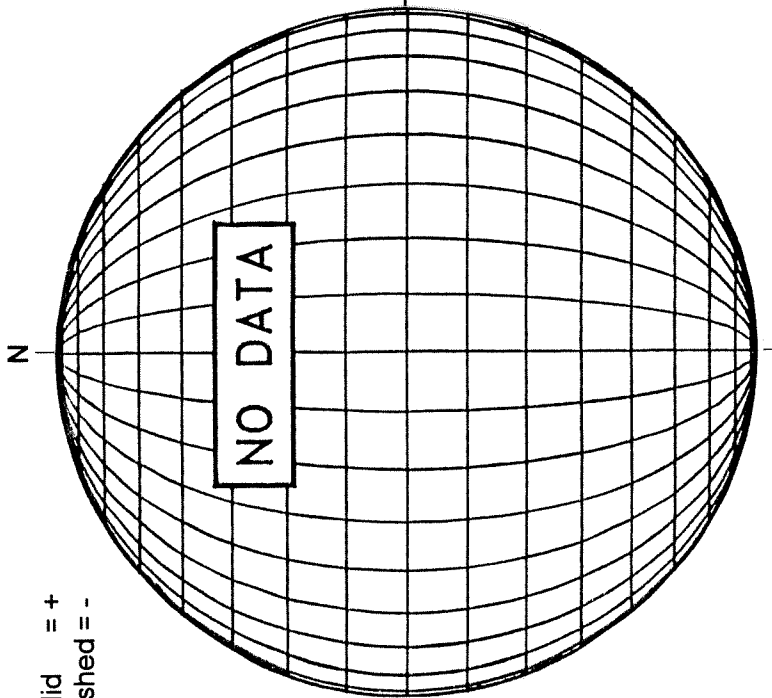
854.2 nm

Bright = +
Dark = -



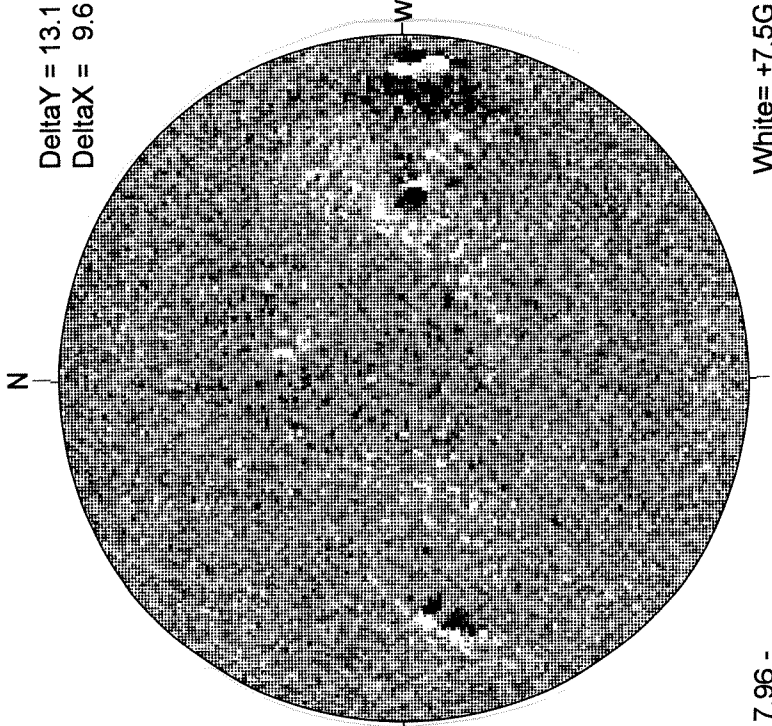
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



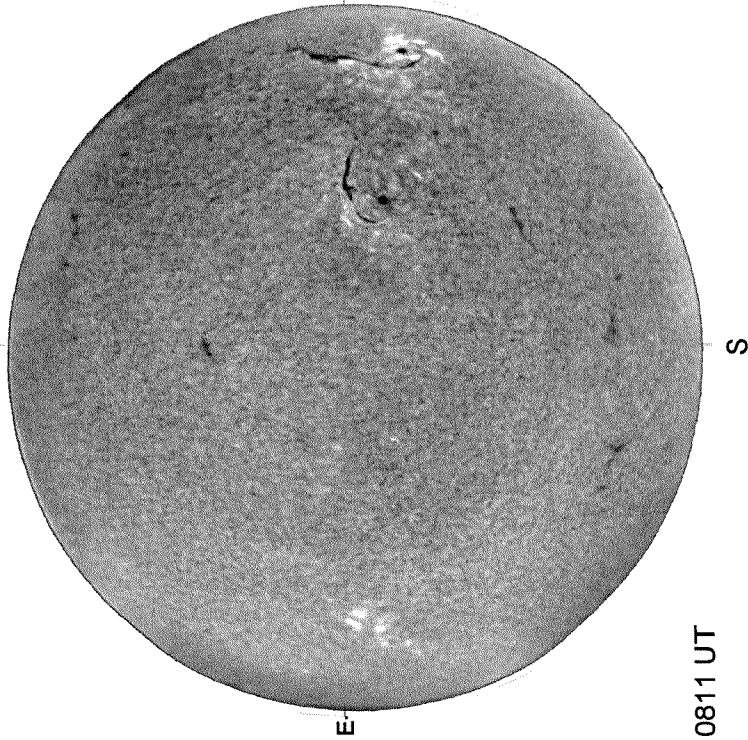
MT. WILSON MAGNETOGRAM

Delta Y = 13.1
Delta X = 9.6



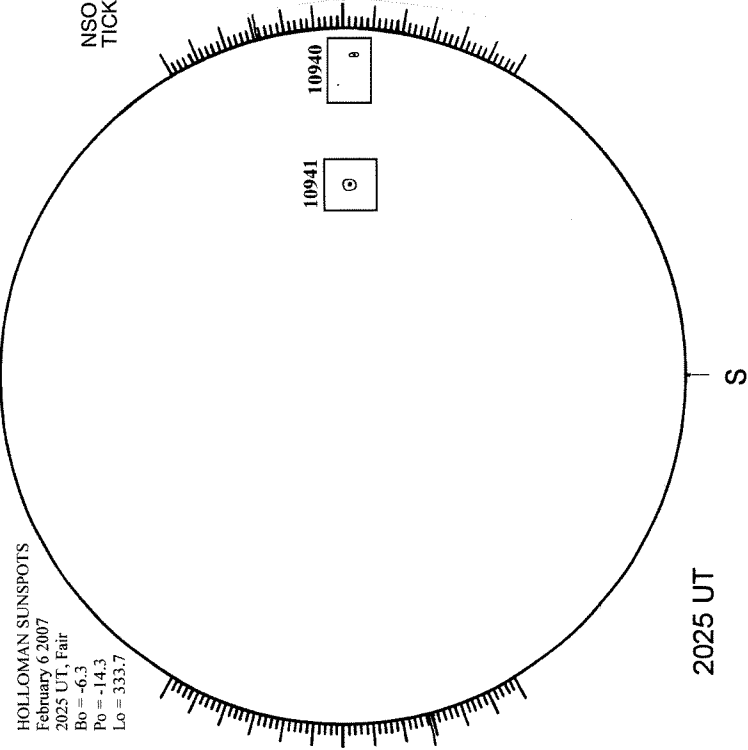
White = +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA



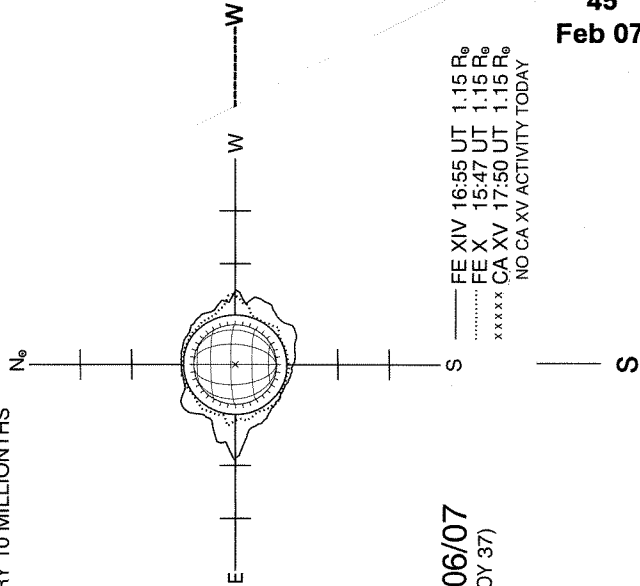
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 6 2007
2025 UT, Fair
Bo = -6.3
Po = -14.3
Lo = 333.7



SACRAMENTO PEAK CORONA (1.15 Radii)----

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS

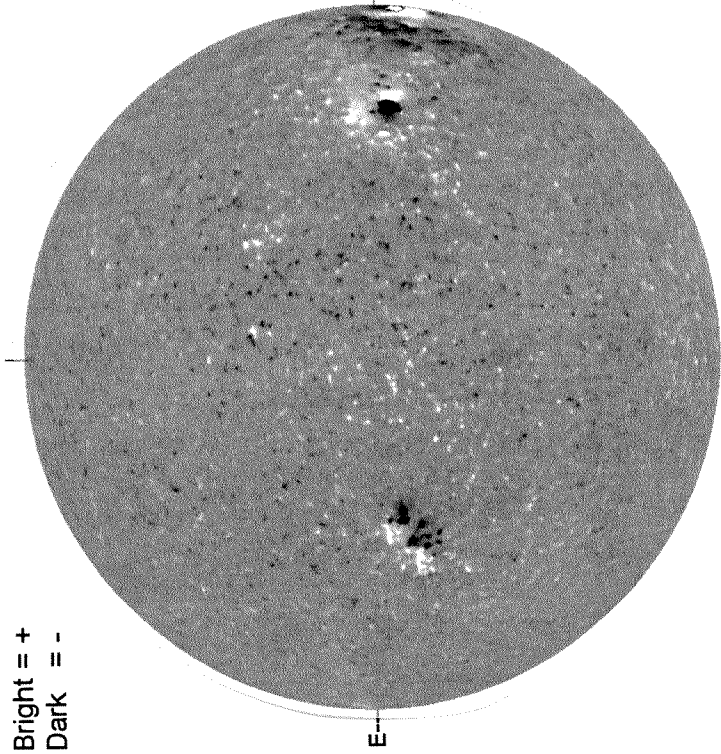


02/06/07
(DOY 37)

FE XIV 16:55 UT 1.15 R₀
FE X 15:47 UT 1.15 R₀
CA XV 17:50 UT 1.15 R₀
NO CA XV ACTIVITY TODAY

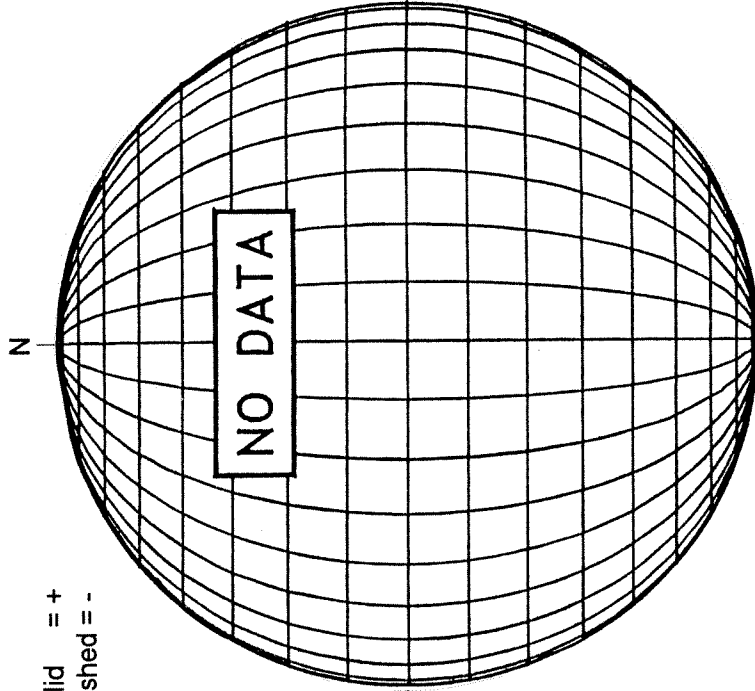
FEBRUARY 07, 2007 (P=-14.39, Bo=-6.40, Lo= 331.52)

KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm



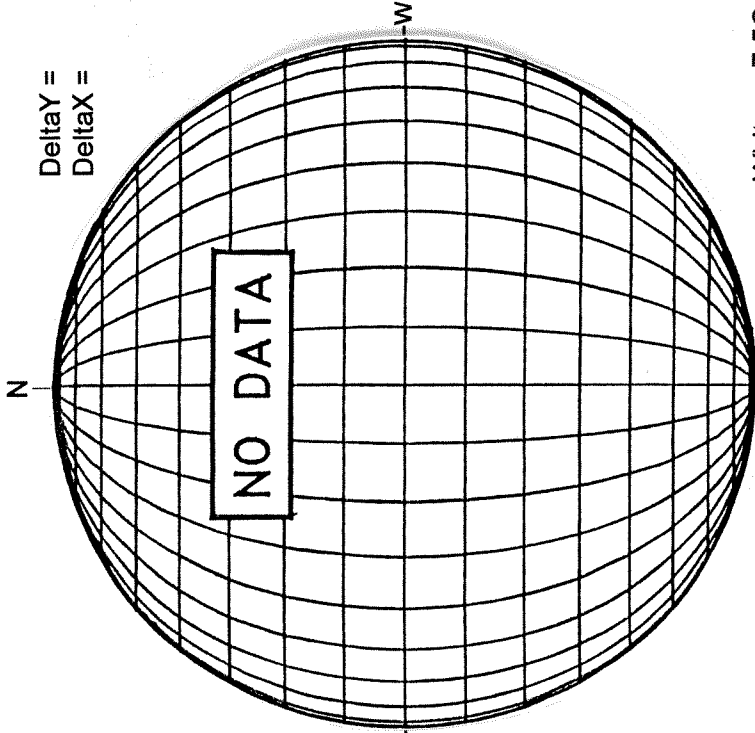
Bright = +
Dark = -

STANFORD MAGNETOGRAM



NO DATA

MT. WILSON MAGNETOGRAM



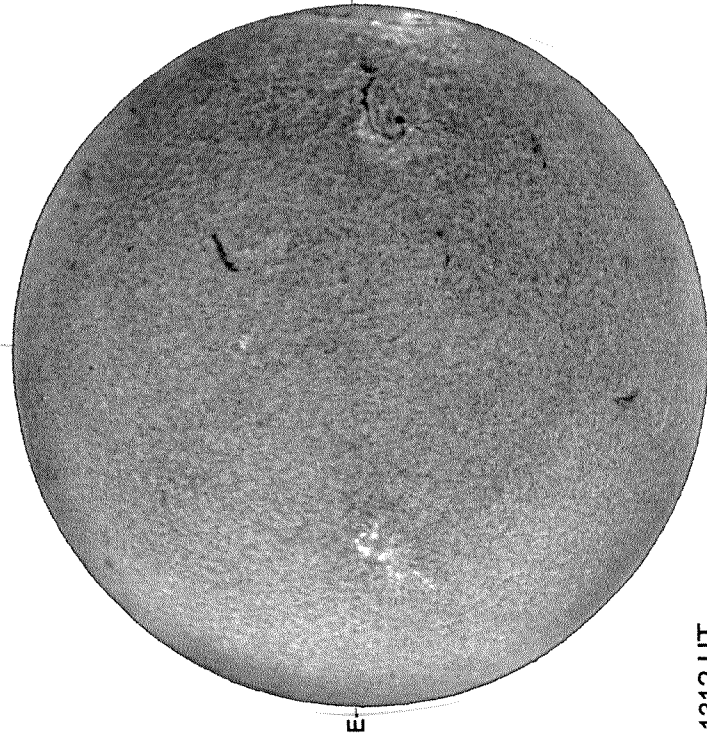
NO DATA

Delta Y =
Delta X =

White = +7.5G
Black = -7.5G

1748 UT

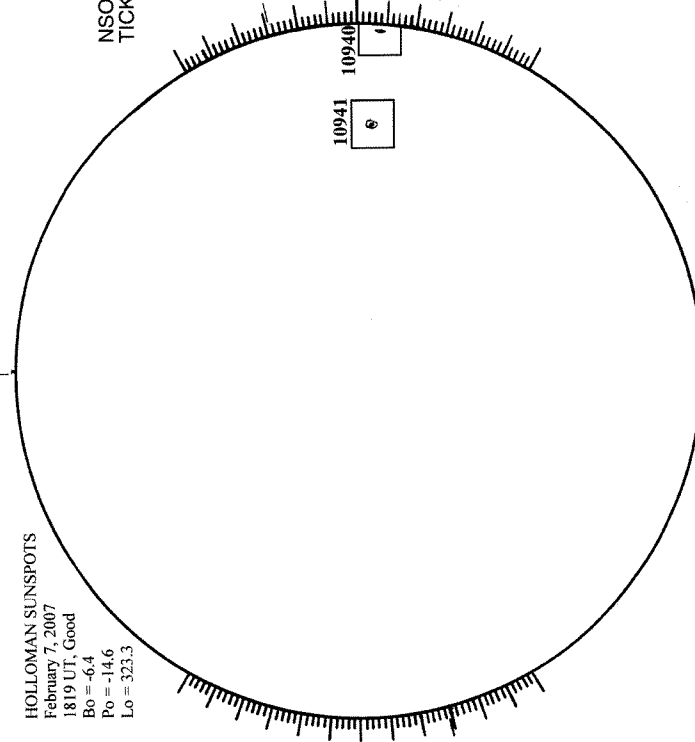
KANZELHOHE H-ALPHA



1312 UT

HOLLOMAN SUNSPOTS

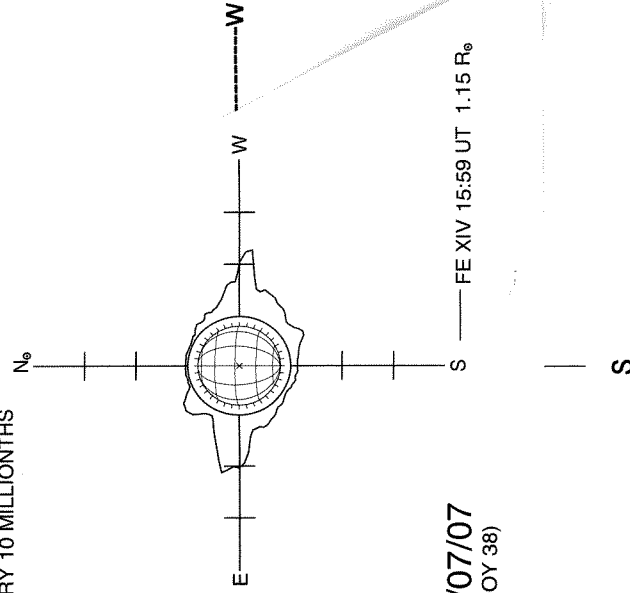
HOLLOMAN SUNSPOTS
February 7, 2007
1819 UT; Good
Bo = -6.4
Po = -14.6
Lo = 323.3



1819 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



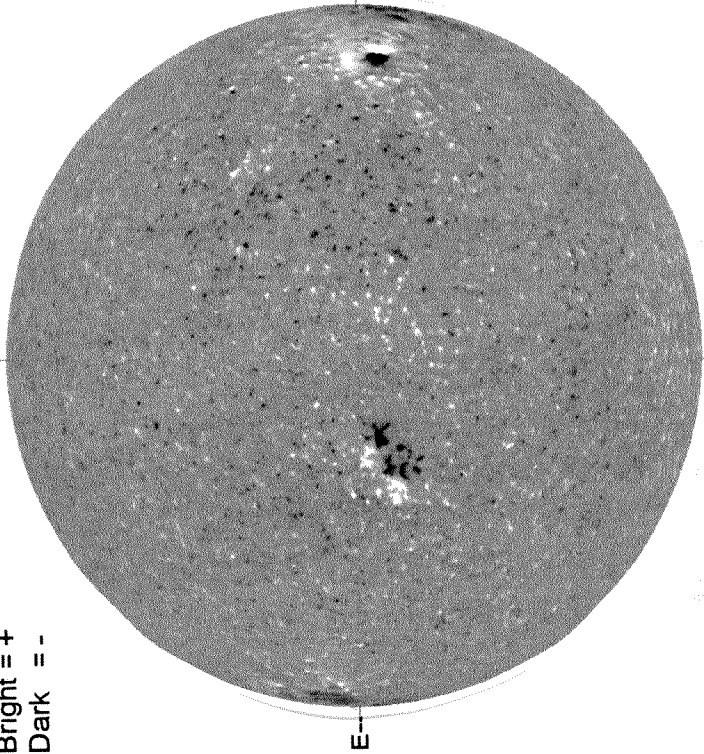
02/07/07
(DOY 38)

FE XIV 15:59 UT 1.15 R_o

FEBRUARY 08, 2007 (P=-14.77, Bo=-6.46, Lo= 318.36)

KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

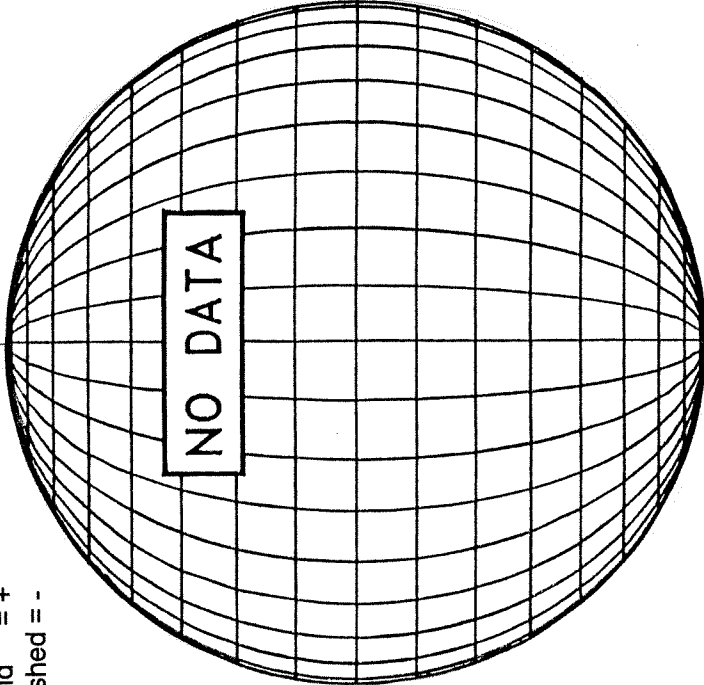
Bright = +
Dark = -



1751 UT

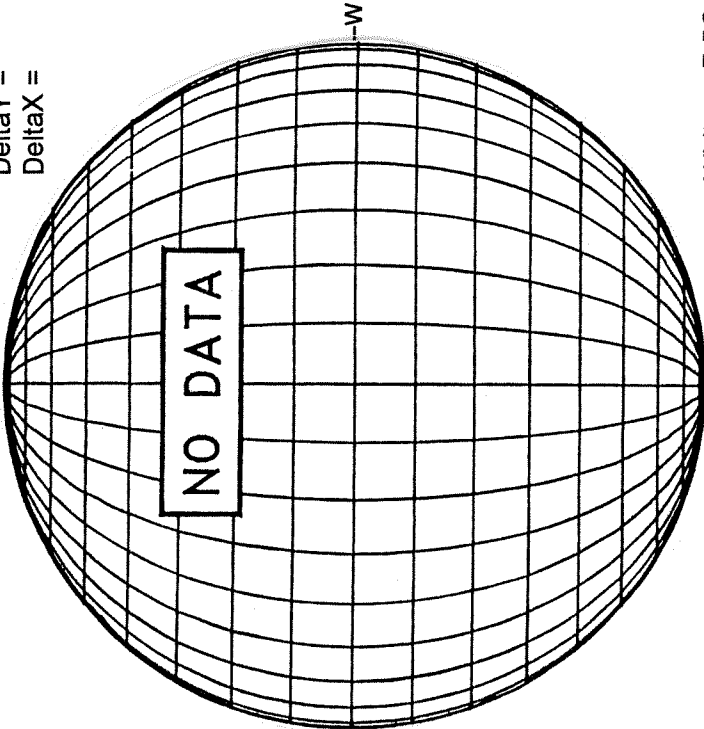
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



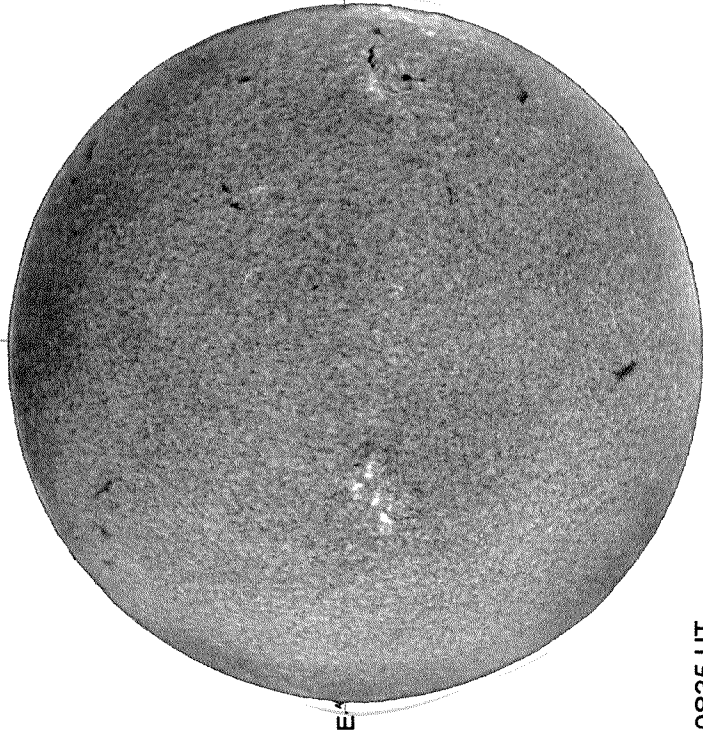
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =



White= +7.5G
Black = -7.5G

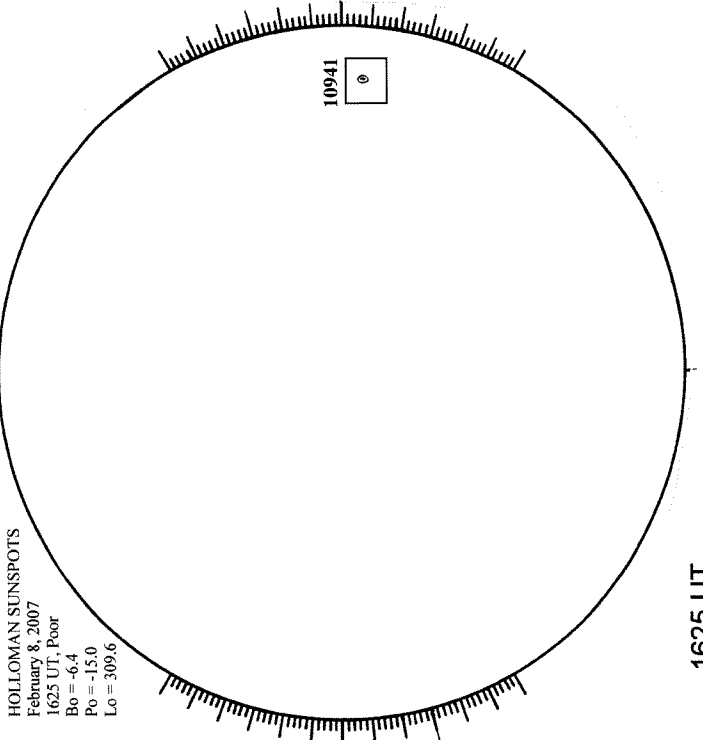
KANZELHOHE H-ALPHA



0835 UT

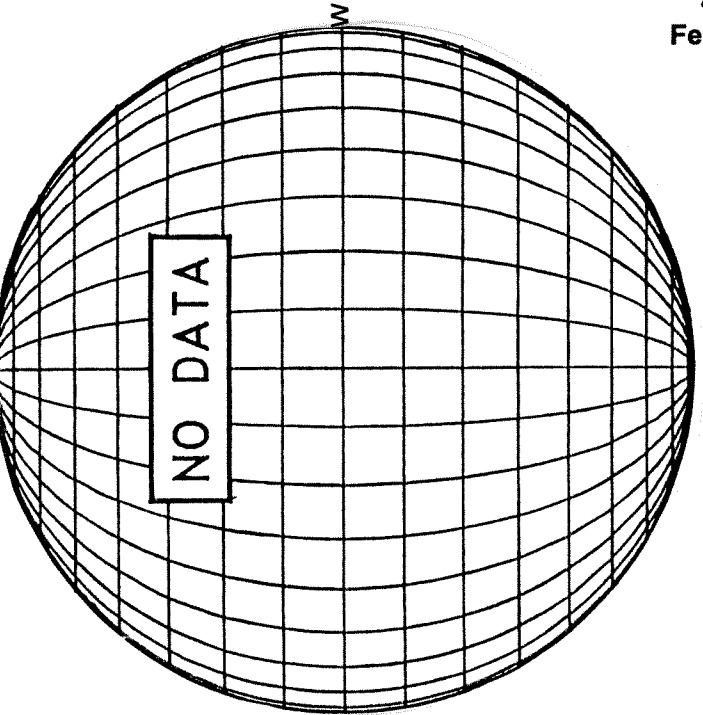
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 8, 2007
1625 UT, Poor
Bo = -6.4
Po = -15.0
Lo = 309.6



1625 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

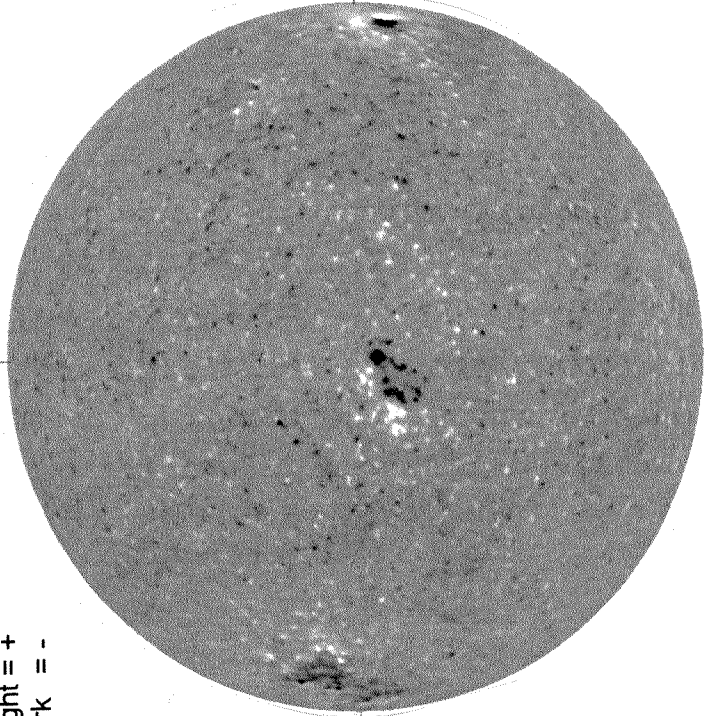


S

FEBRUARY 09, 2007 (P=-15.14, Bo=-6.51, Lo= 305.19)

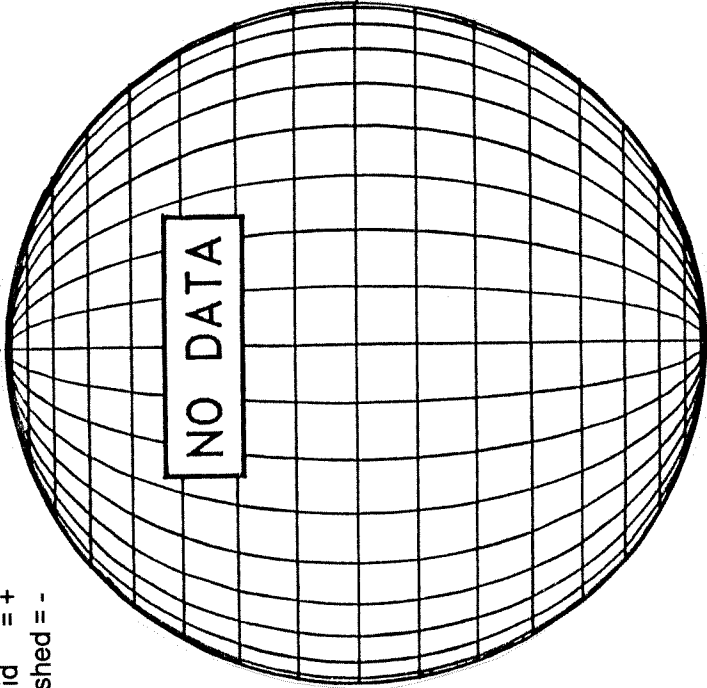
KITT PEAK MAGNETOGRAM--SOLIS
**854.2 nm

Bright = +
Dark = -



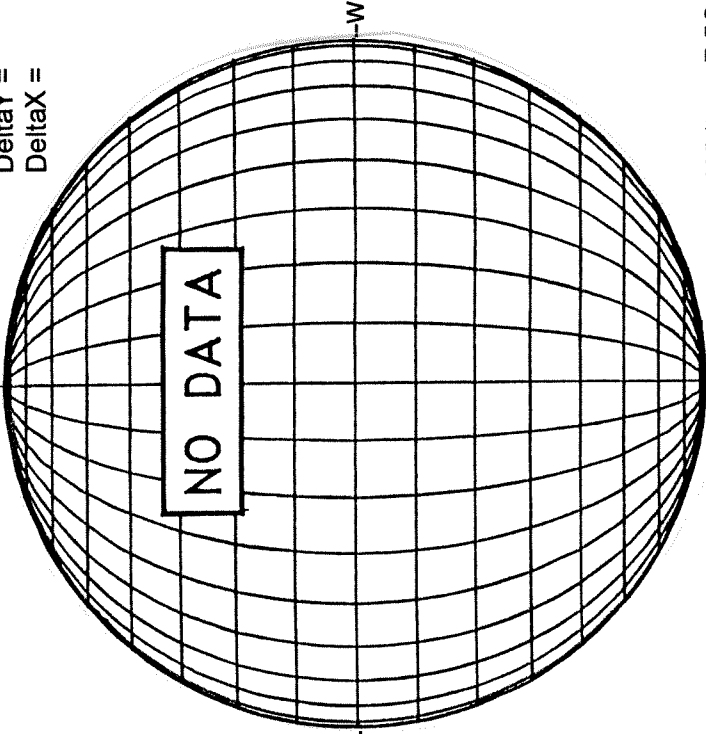
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



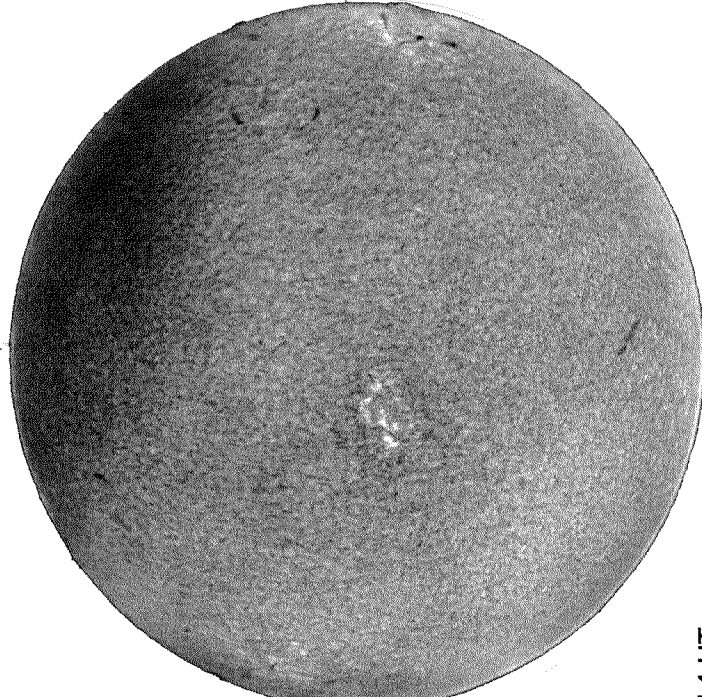
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =



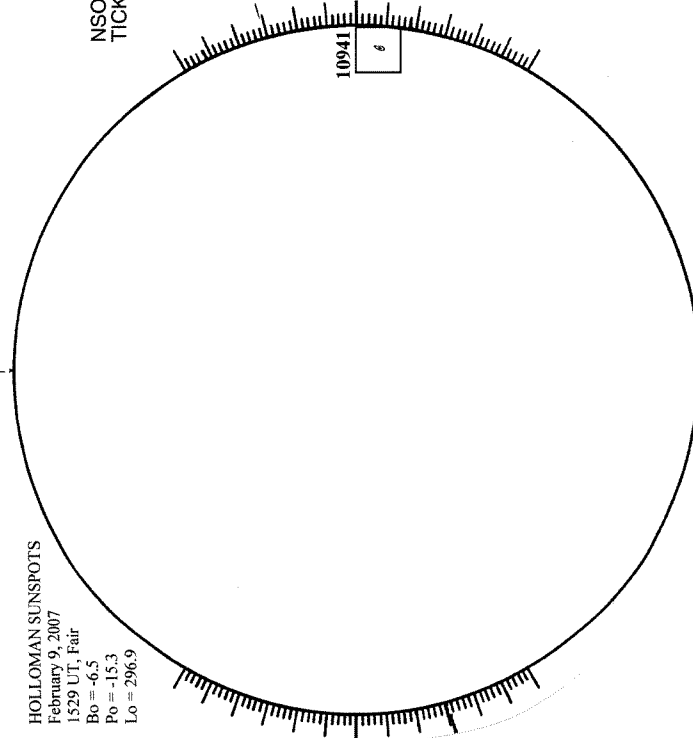
White= +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA

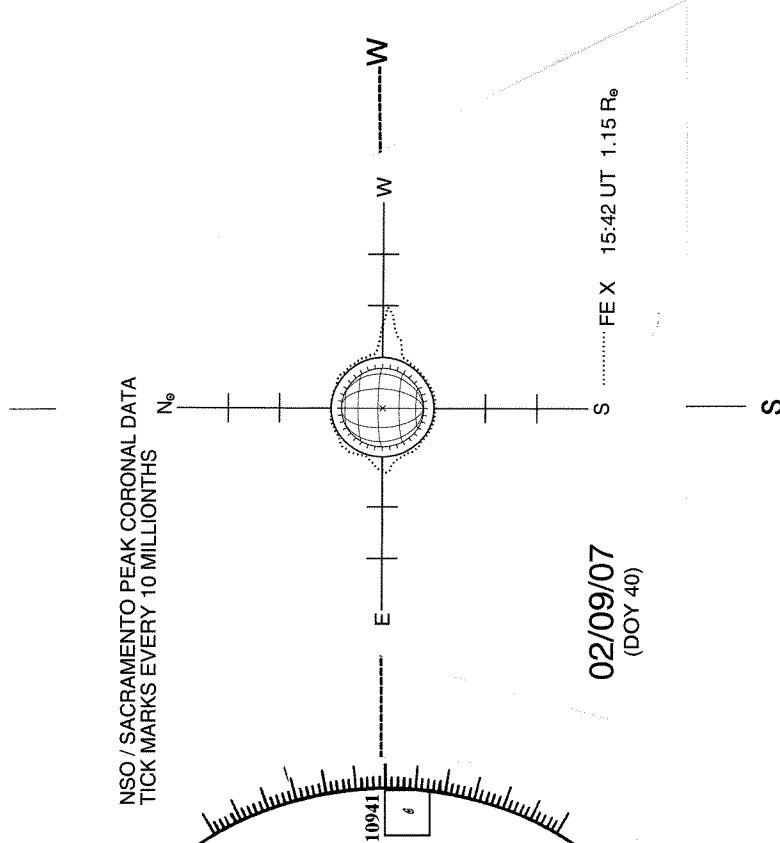


HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 9, 2007
1529 UT, Fair
Bo = -6.5
Po = -15.3
Lo = 296.9



SACRAMENTO PEAK CORONA (1.15 Radii)----



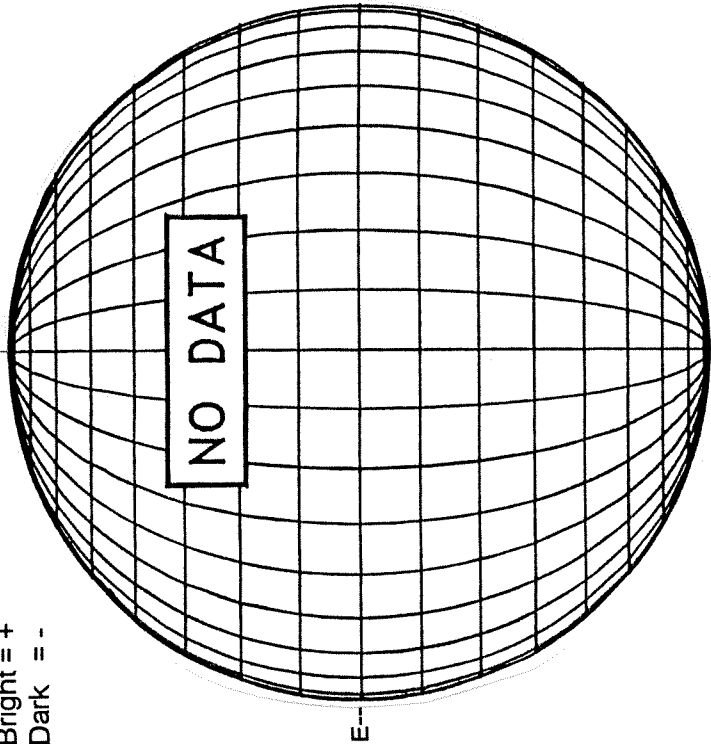
02/09/07
(DOY 40)

FE X 15:42 UT 1.15 R_o

FEBRUARY 10, 2007 (P=-15.51, Bo=-6.57, Lo= 292.02)

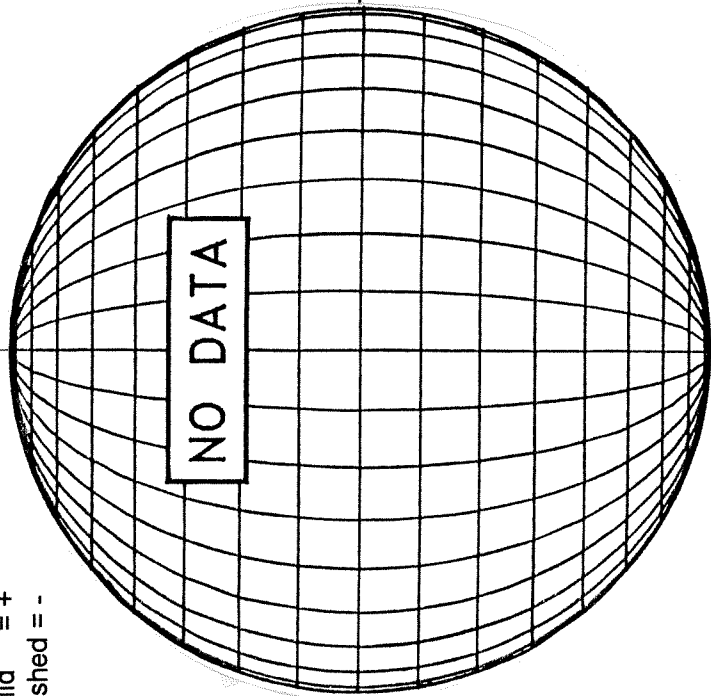
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



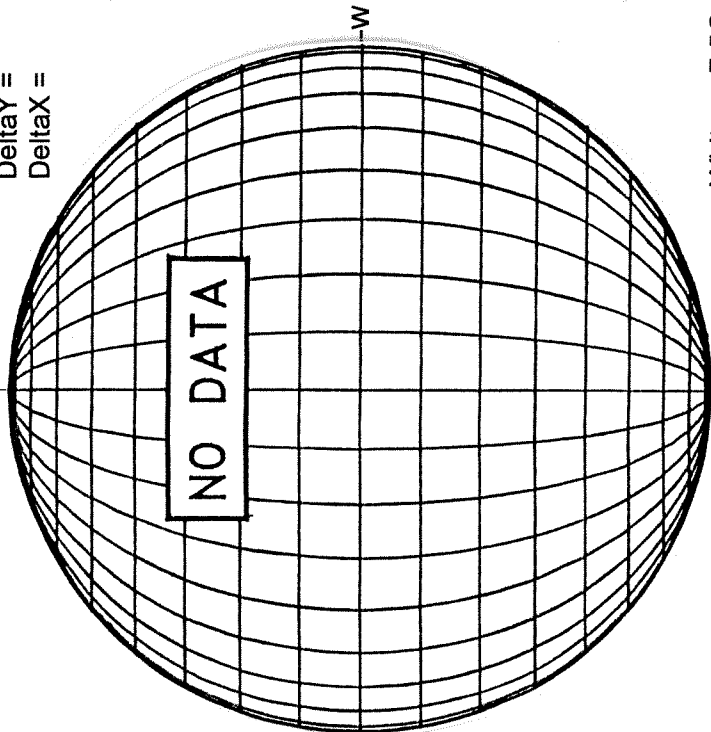
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



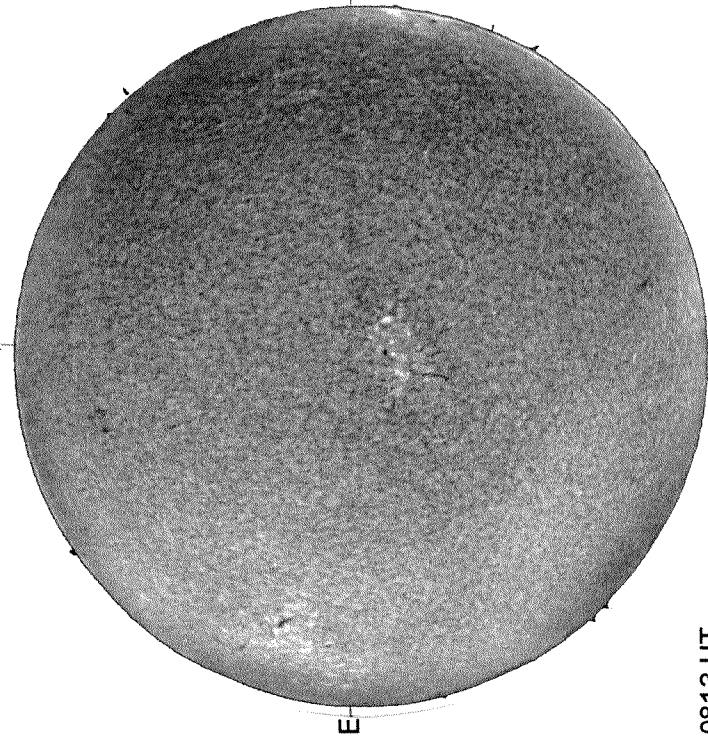
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =



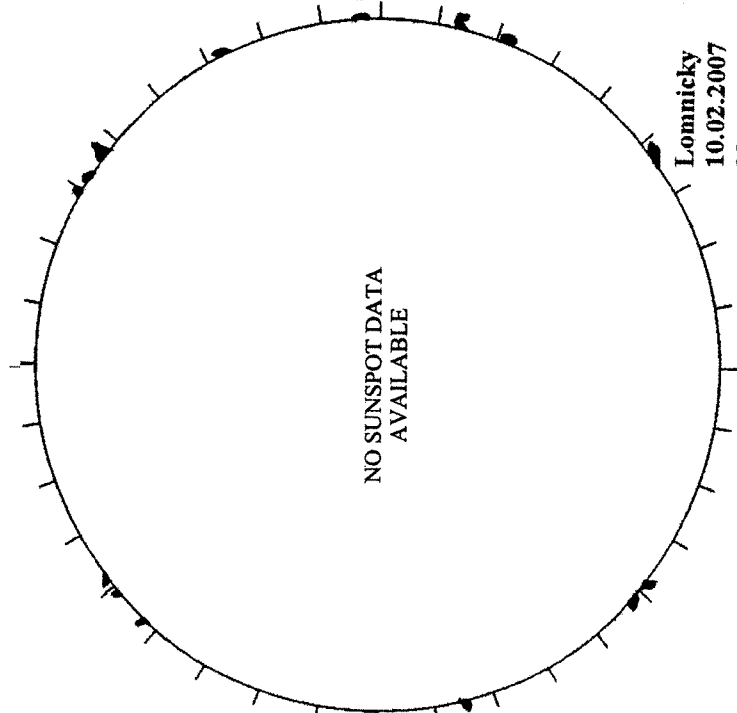
White= +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA



0813 UT

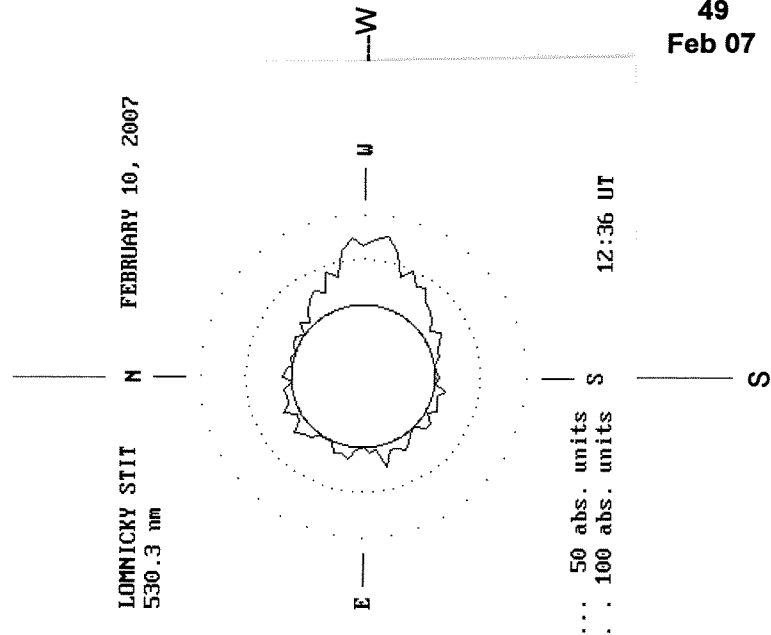
HOLLOMAN SUNSPOTS



0944 UT LOMN Prom S

Lomnický
10.02.2007
0944 UT

LOMNICKY PEAK CORONA (1.04 Radii)----

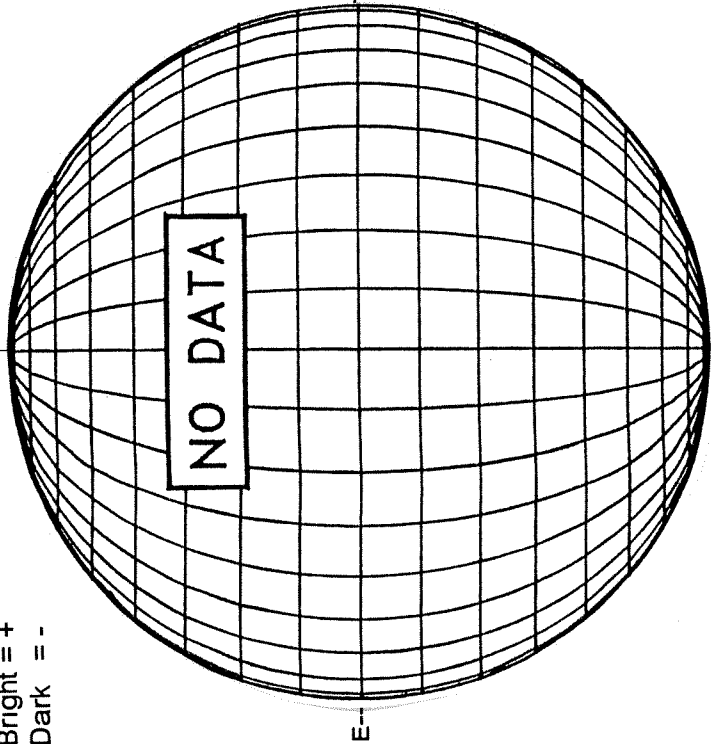


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Feb 07

FEBRUARY 11, 2007 (P=-15.87, Bo=-6.62, Lo= 278.86)

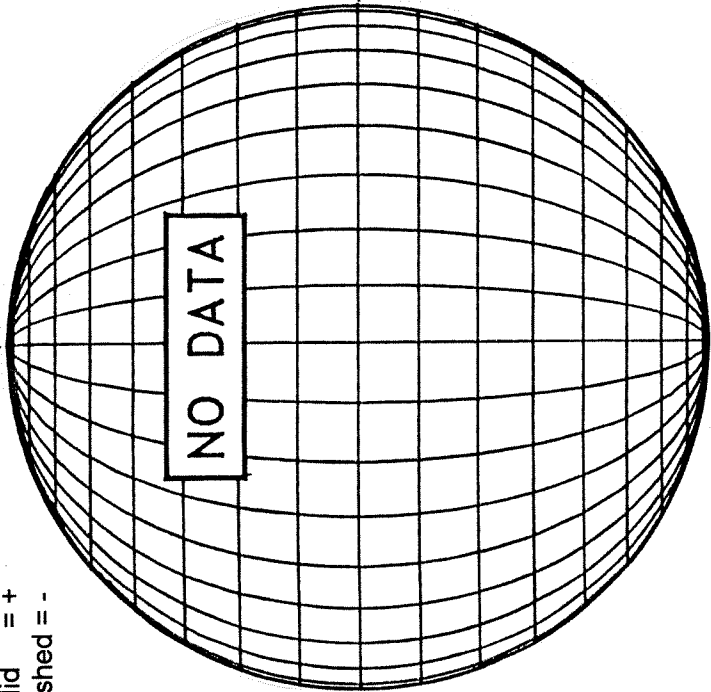
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



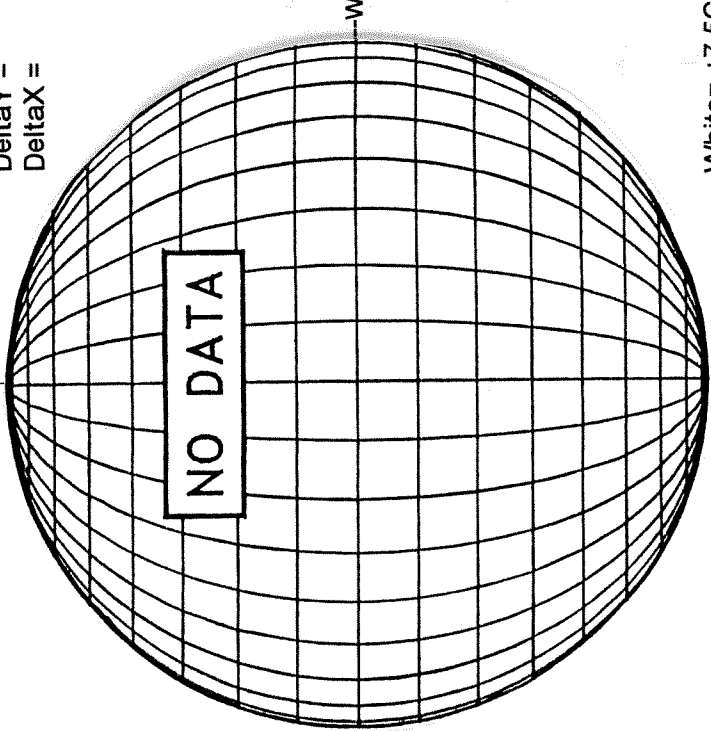
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



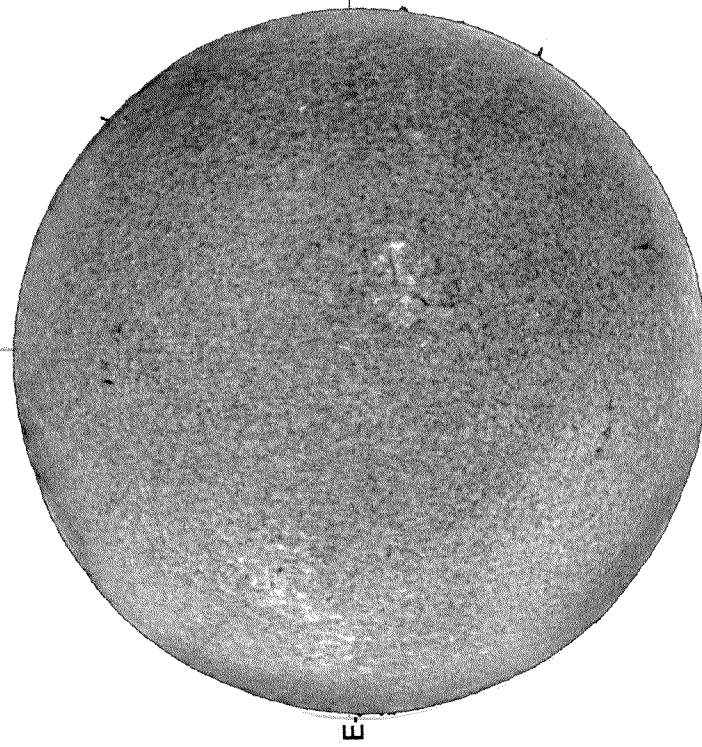
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =



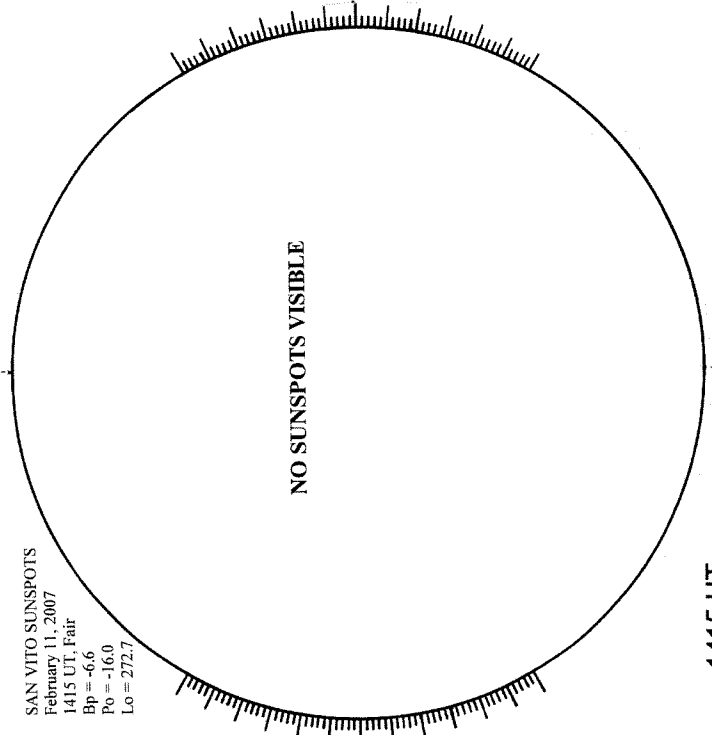
White= +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA

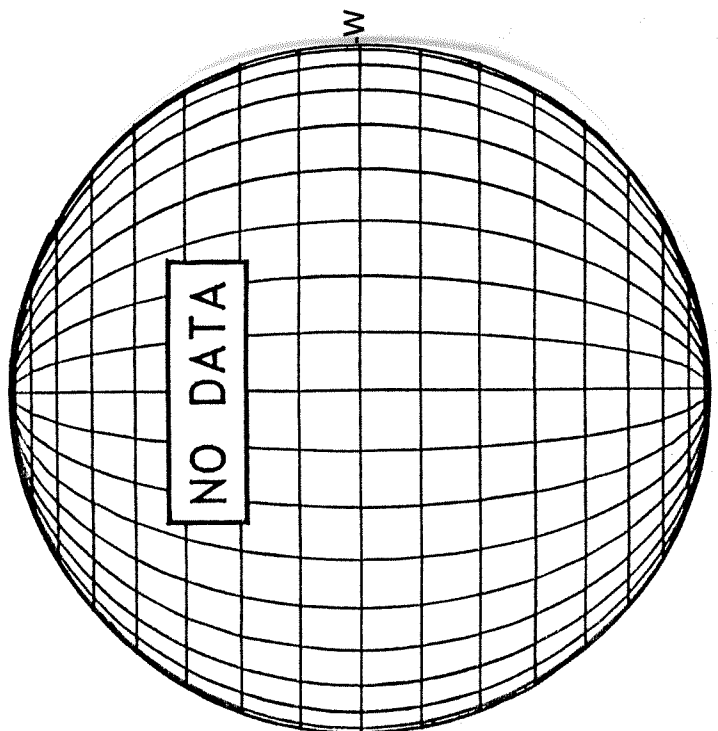


SAN VITO SUNSPOTS

SAN VITO SUNSPOTS
February 11, 2007
1415 UT, Fair
Bp = -6.6
Po = -16.0
Lo = 272.7



SACRAMENTO PEAK CORONA (1.15 Radii)----



0813 UT

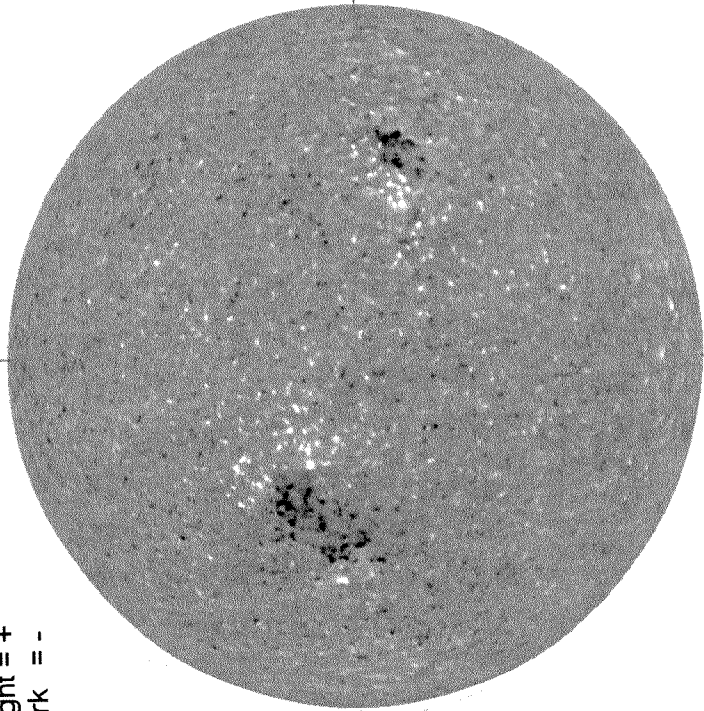
1415 UT

FEBRUARY 12, 2007 (P=-16.23, Bo=-6.67, Lo= 265.69)

KITT PEAK MAGNETOGRAM--SOLIS

854.2 nm

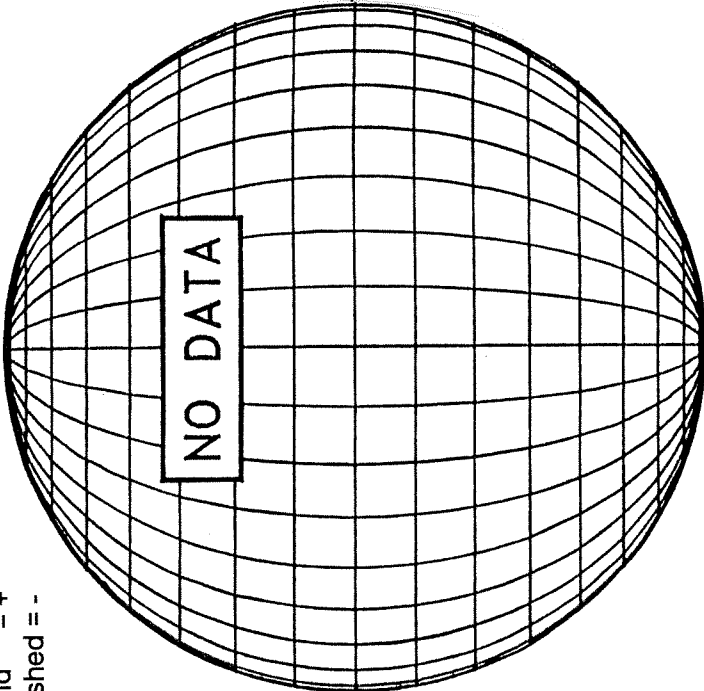
Bright = +
Dark = -



1826 UT

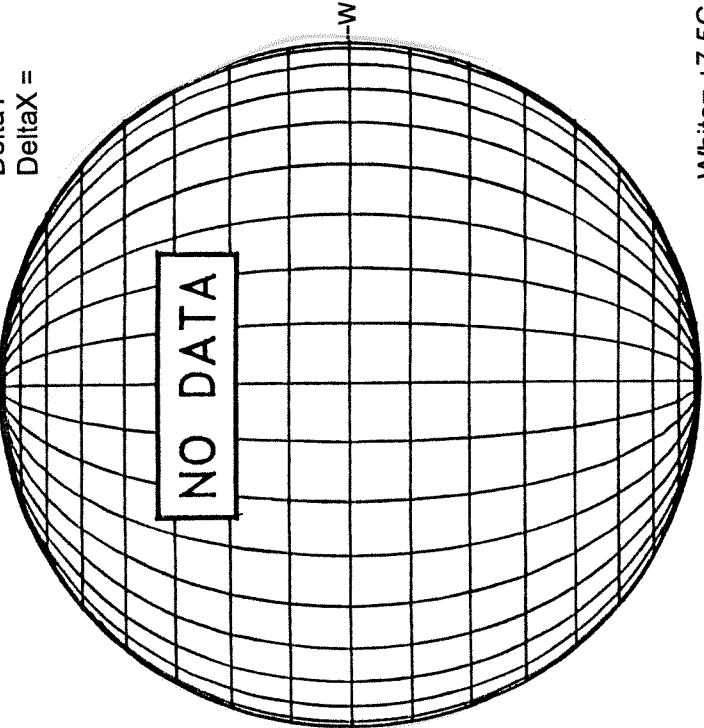
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



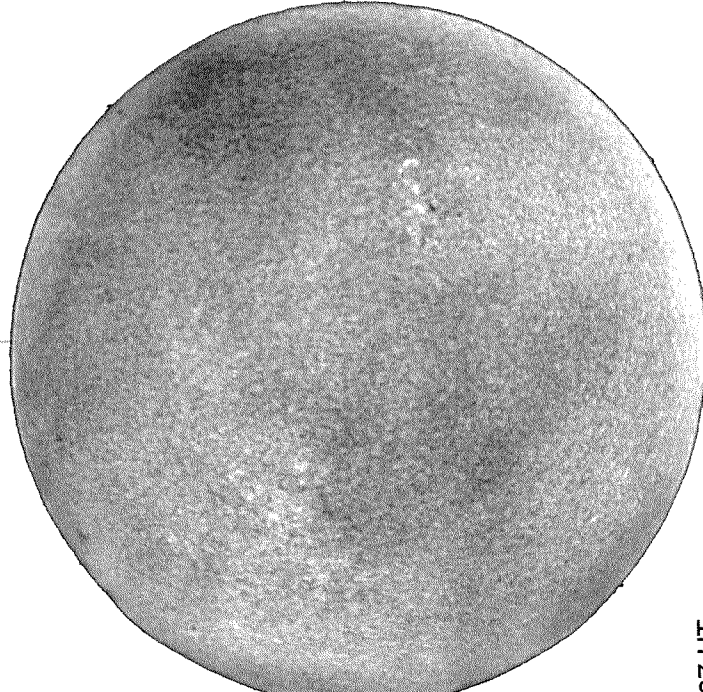
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =



White= +7.5G
Black = -7.5G

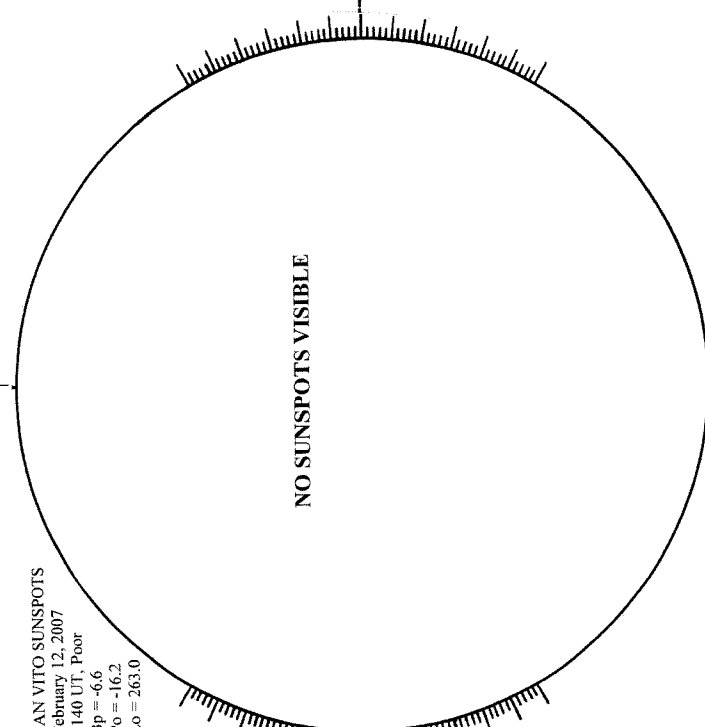
KANZELHOHE H-ALPHA



1107 UT

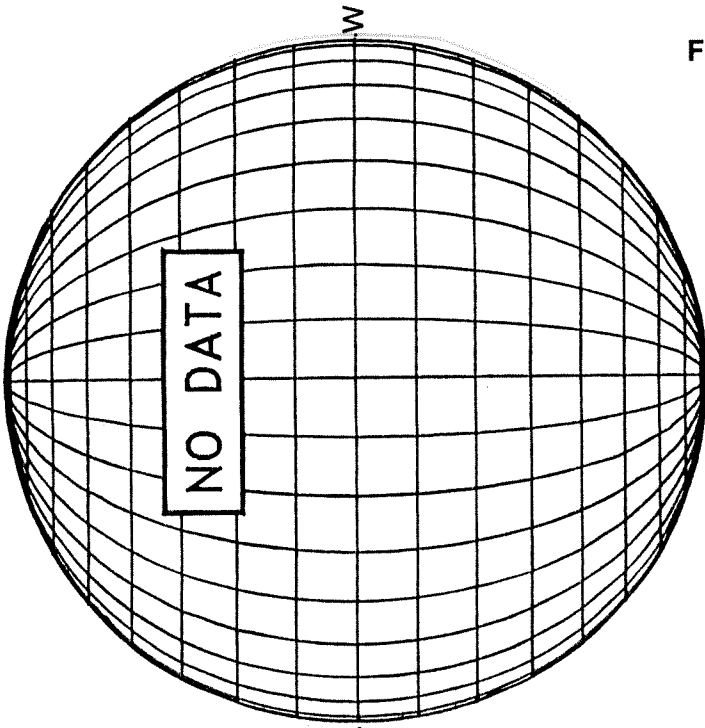
SAN VITO SUNSPOTS

SAN VITO SUNSPOTS
February 12, 2007
1140 UT, Poor
Bp = -6.6
Po = -16.2
Lo = 263.0



1140 UT

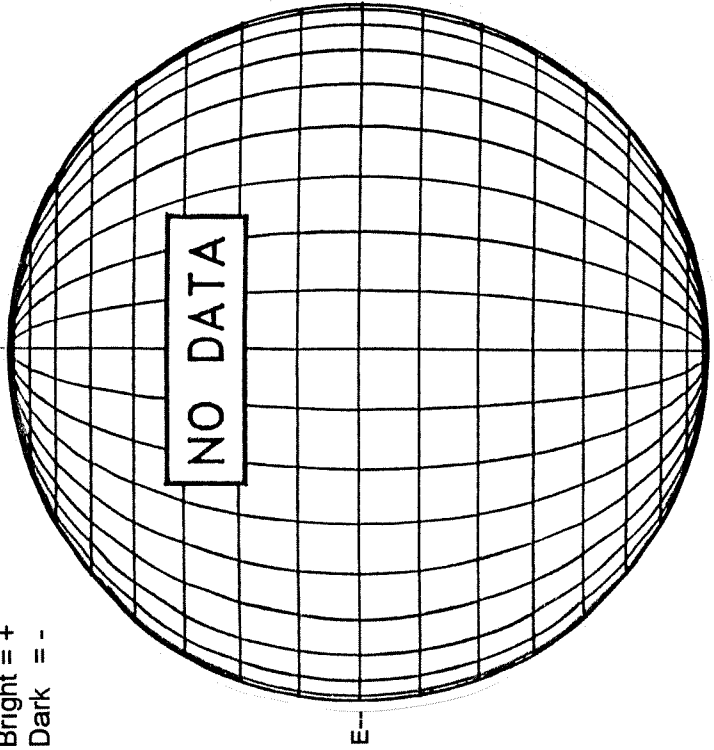
SACRAMENTO PEAK CORONA (1.15 Radii)----



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Feb 07

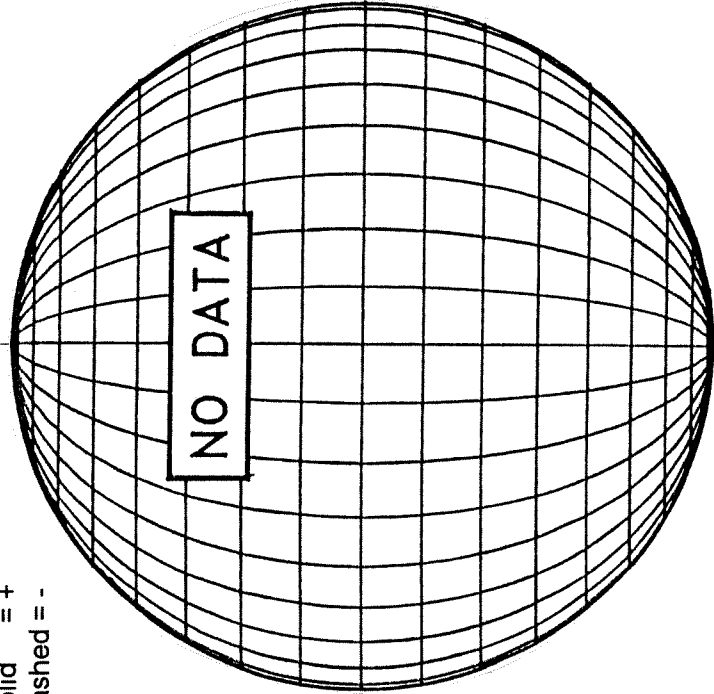
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



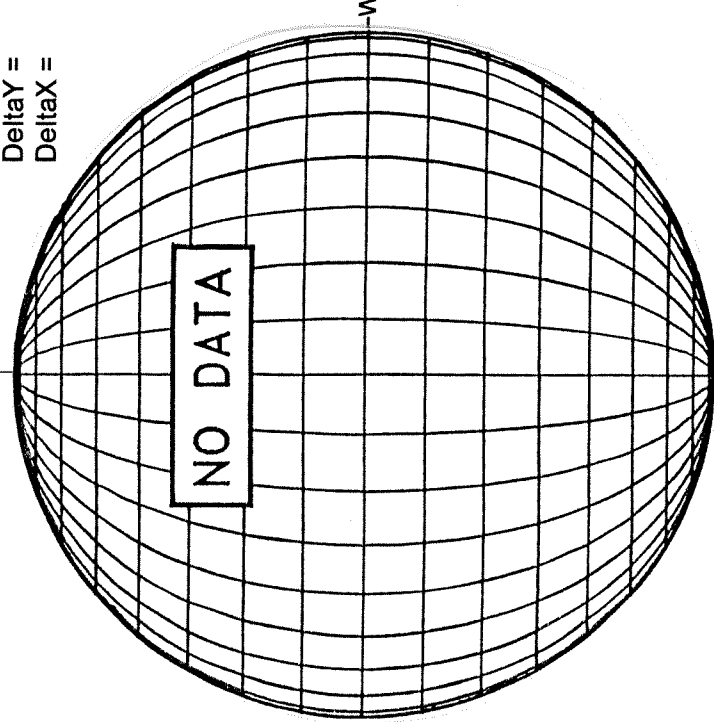
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



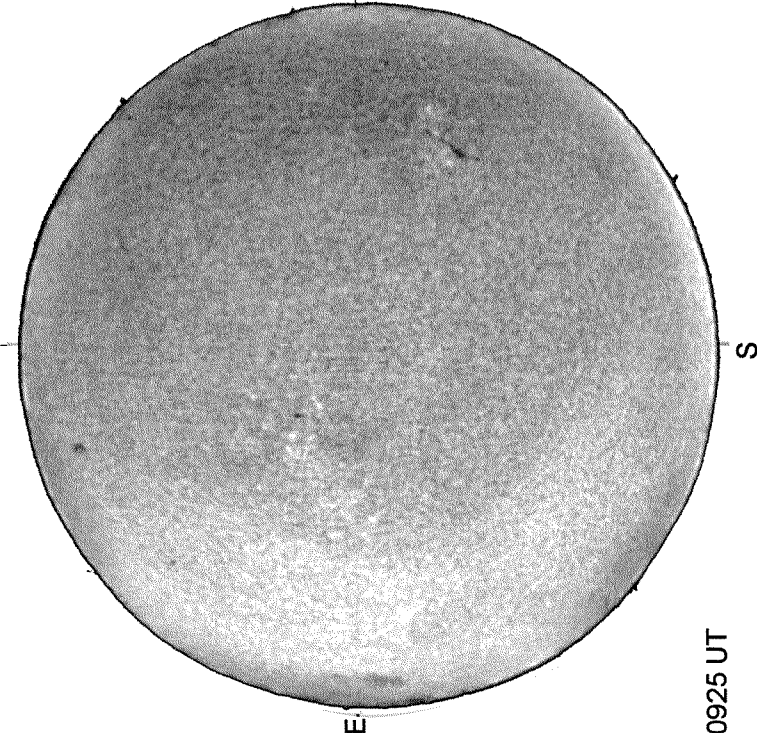
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =

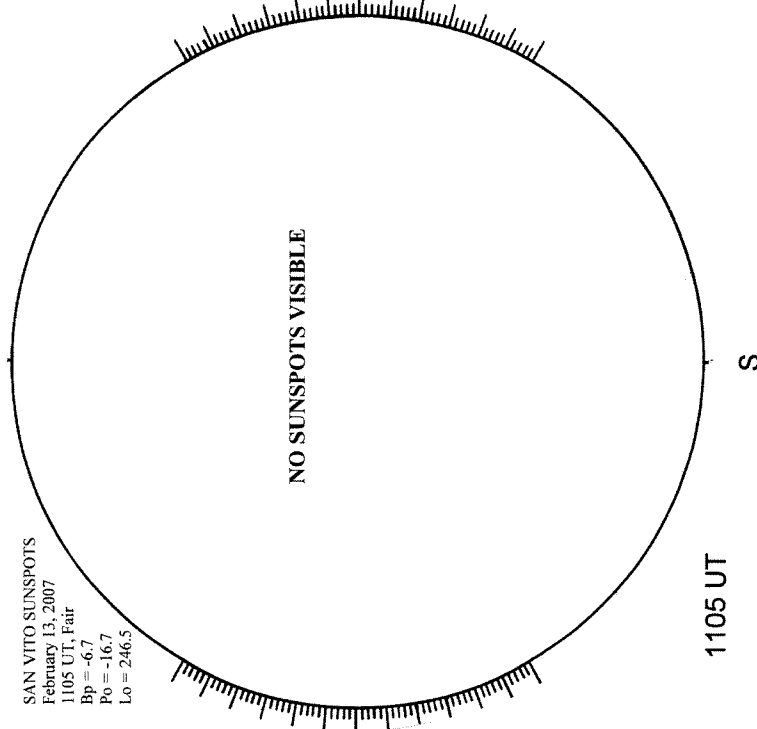


White= +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA

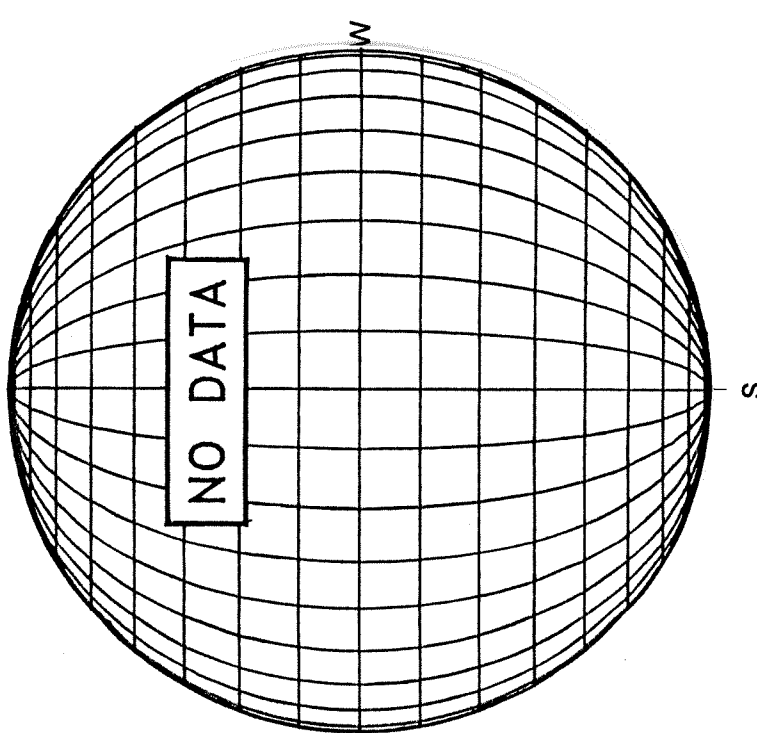


SAN VITO SUNSPOTS



SAN VITO SUNSPOTS
February 13, 2007
1105 UT, Fair
Bp = -6.7
Po = -16.7
Lo = 246.5

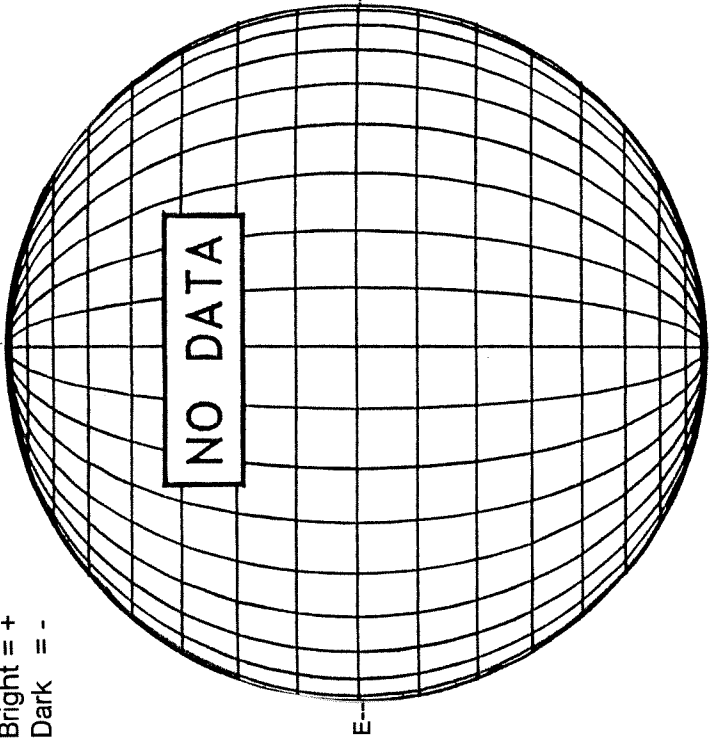
SACRAMENTO PEAK CORONA (1.15 Radii)----



KITT PEAK MAGNETOGRAM--SOLIS

854.2 nm

Bright = +
Dark = -



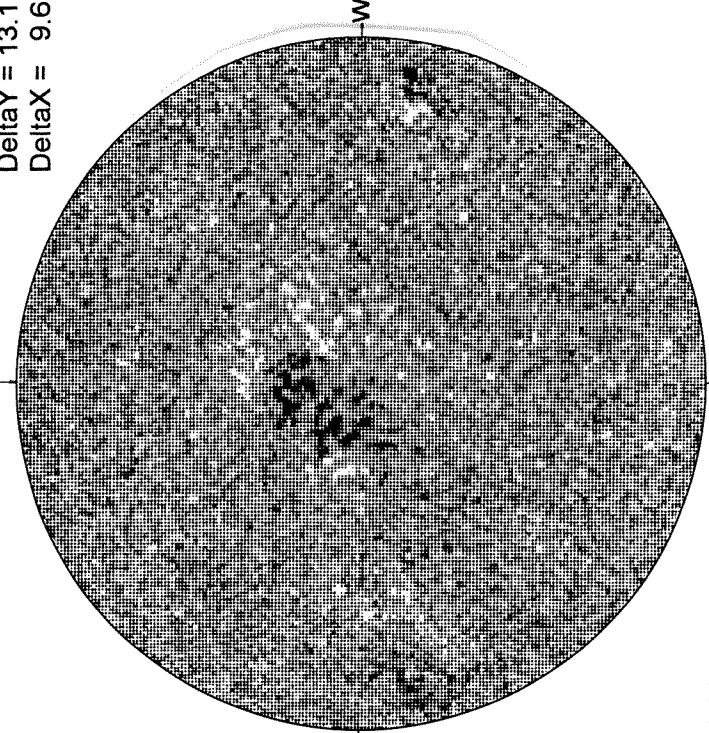
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

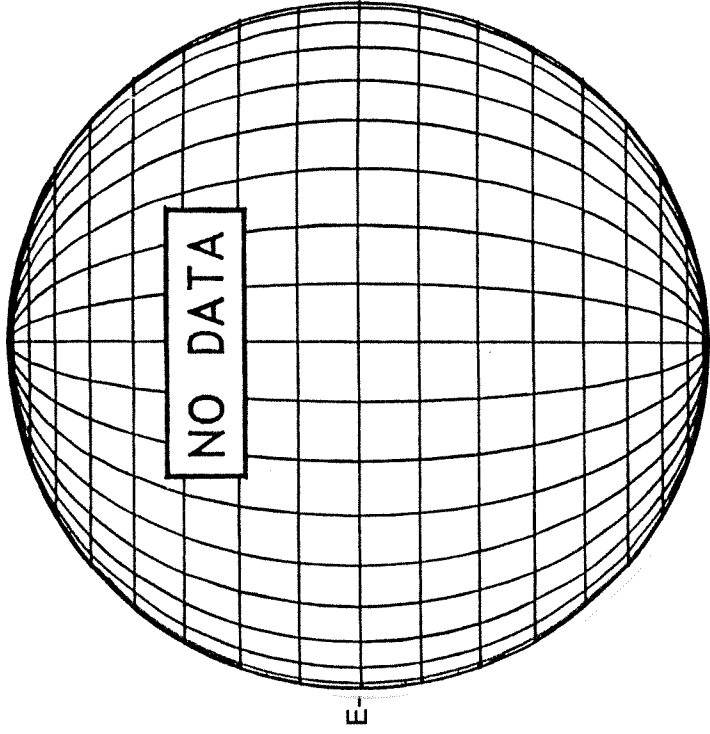
DeltaY = 13.1
DeltaX = 9.6



16.86 -
17.83 UT

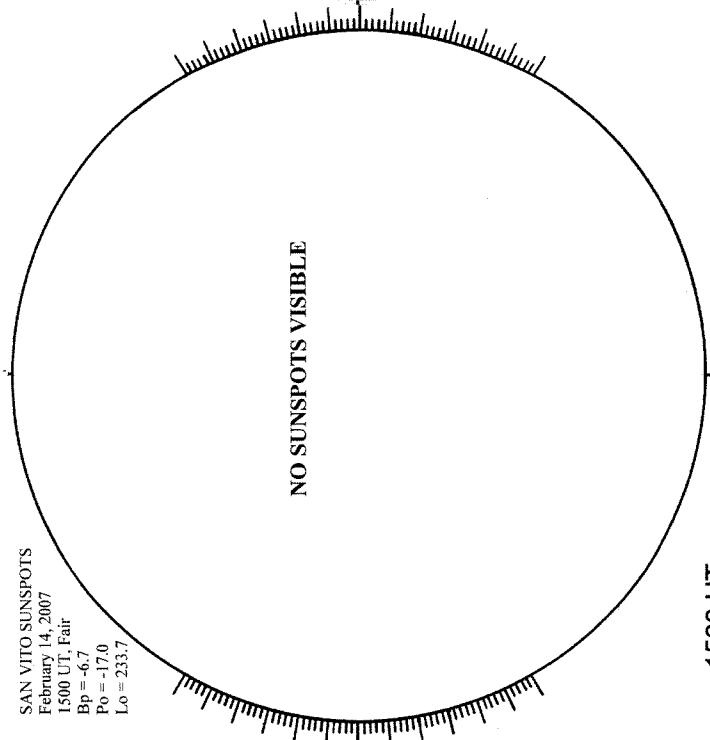
White= +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA

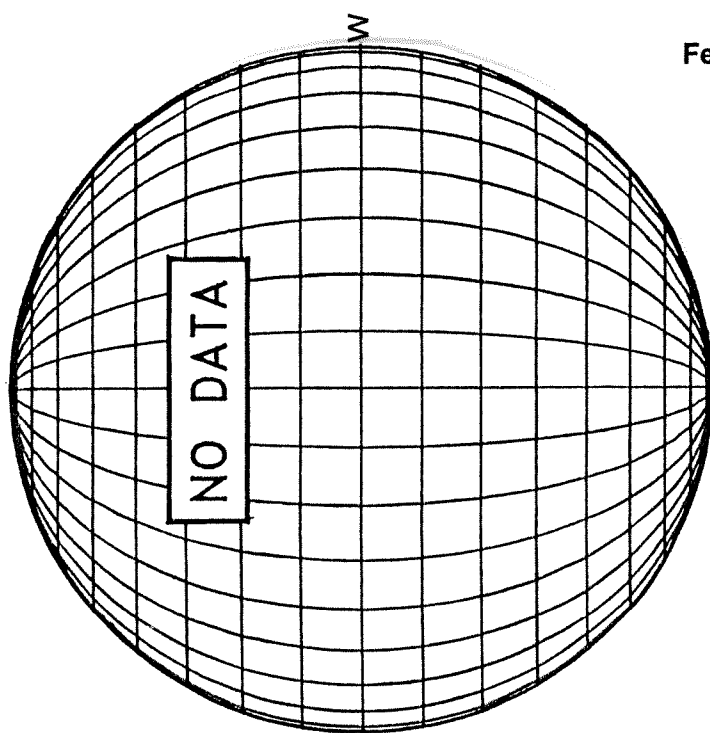


SAN VITO SUNSPOTS

SAN VITO SUNSPOTS
February 14, 2007
1500 UT, Fair
Bp = -6.7
Po = -17.0
Lo = 233.7



SACRAMENTO PEAK CORONA (1.15 Radii)----

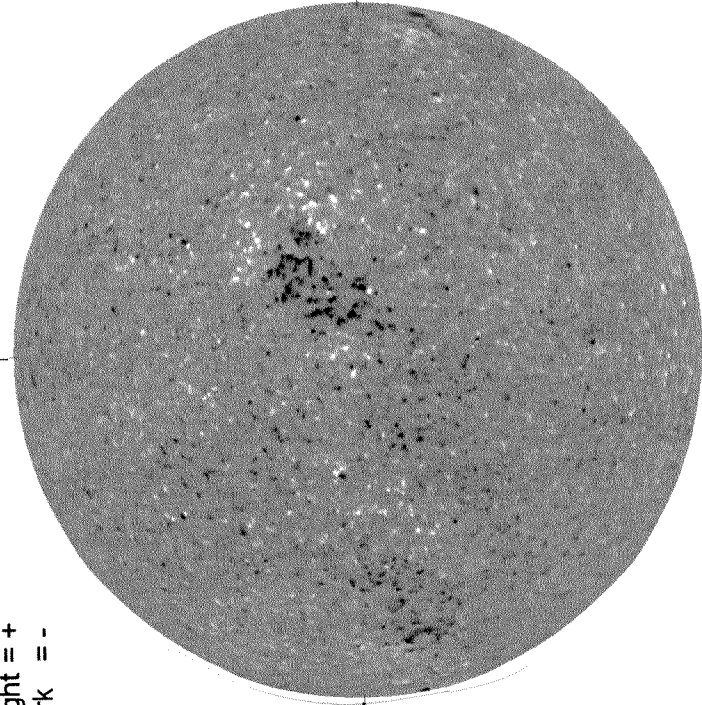


FEBRUARY 15, 2007 (P=-17.27, Bo=-6.81, Lo= 226.19)

KITT PEAK MAGNETOGRAM--SOLIS

854.2 nm

Bright = +
Dark = -



1834 UT

STANFORD MAGNETOGRAM

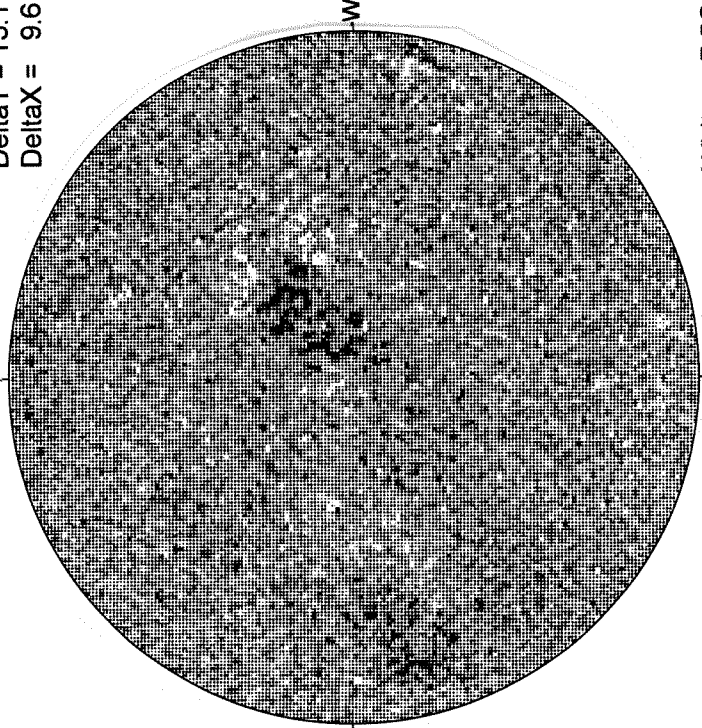
Solid = +
Dashed = -



1849 UT

MT. WILSON MAGNETOGRAM

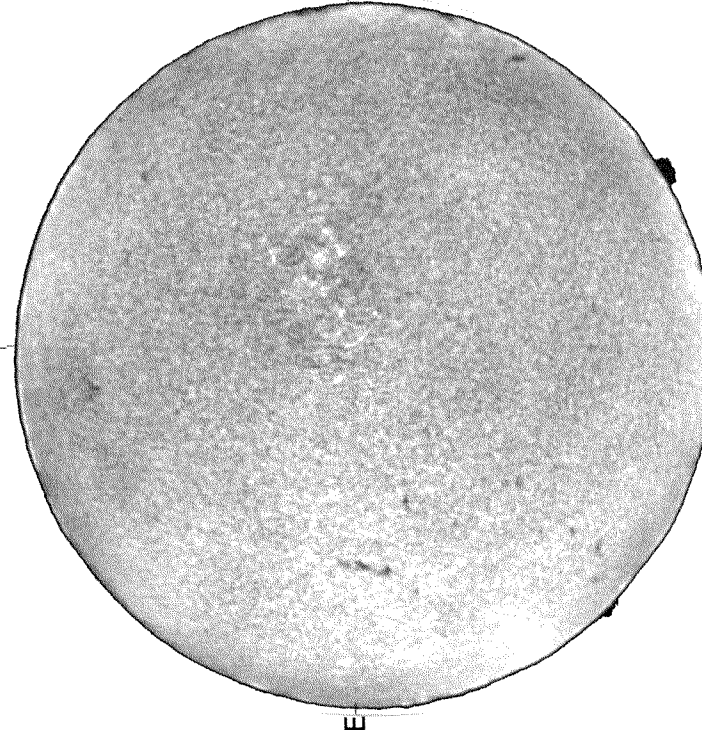
DeltaY = 13.1
DeltaX = 9.6



17.11 -
18.08 UT

White= +7.5G
Black = -7.5G

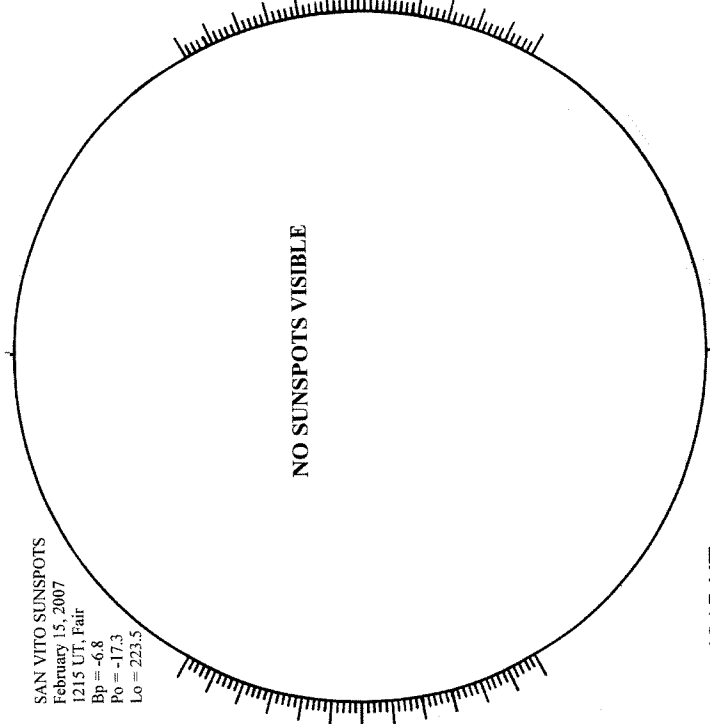
KANZELHOHE H-ALPHA



1257 UT

SAN VITO SUNSPOTS

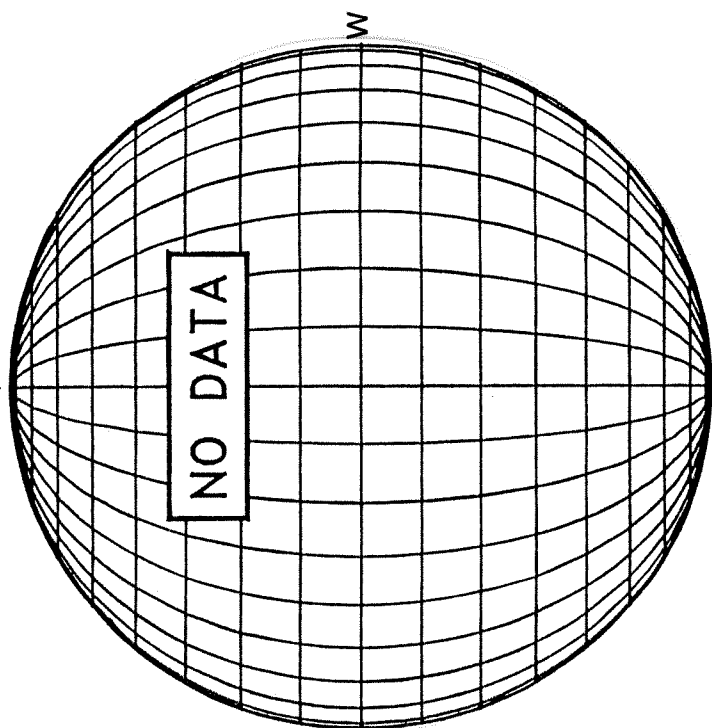
SAN VITO SUNSPOTS
February 15, 2007
1215 UT, Fair
Bp = -6.8
Po = -17.3
Lo = 223.5



1215 UT

NO SUNSPOTS VISIBLE

SACRAMENTO PEAK CORONA (1.15 Radii)----



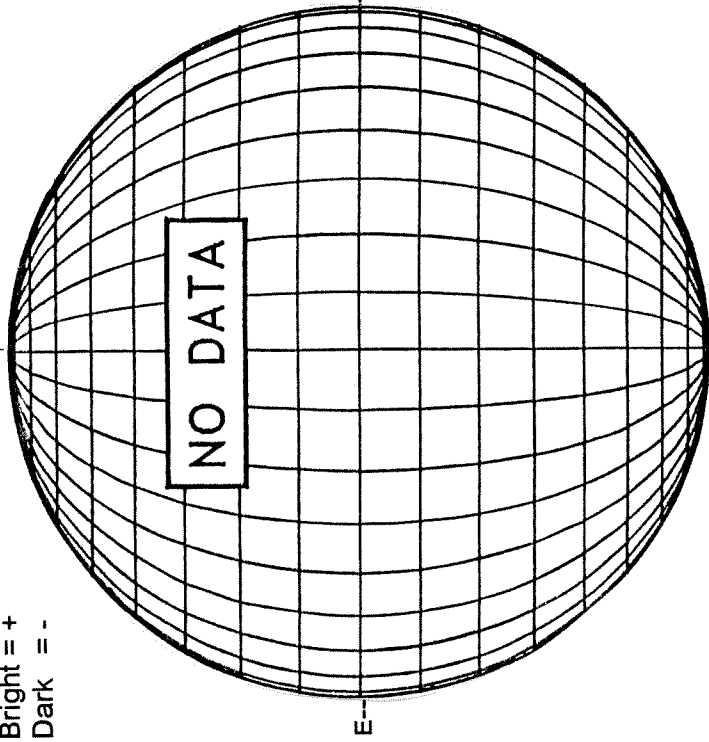
S

NO DATA

FEBRUARY 16, 2007 (P=-17.60, Bo=-6.86, Lo= 213.02)

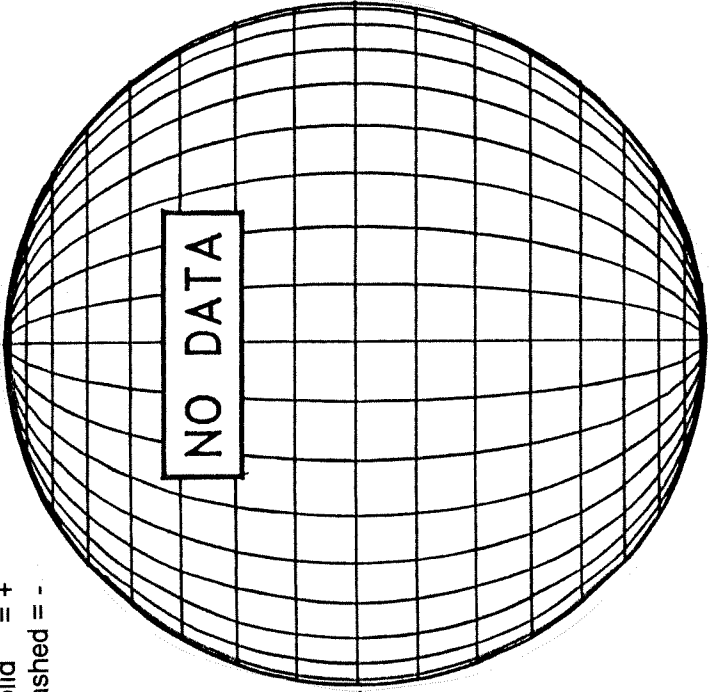
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



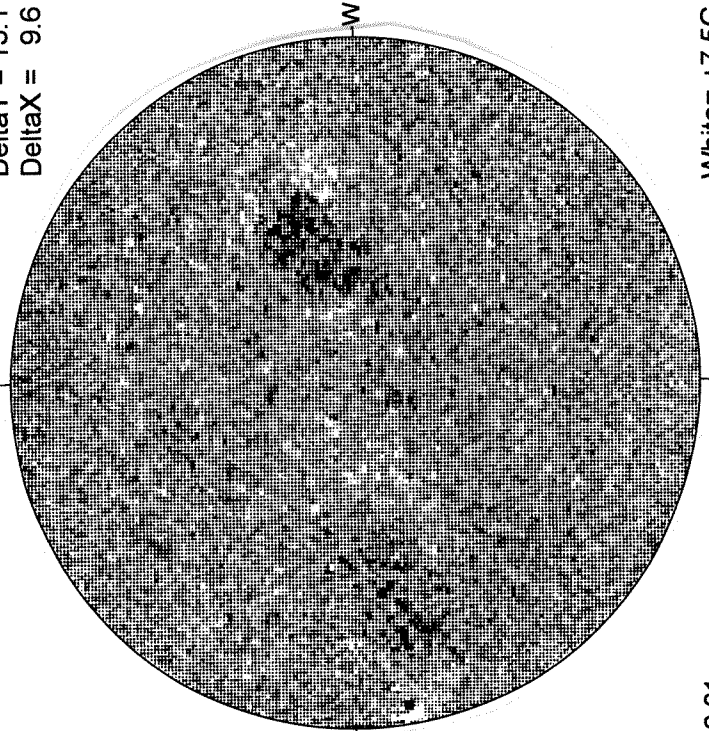
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

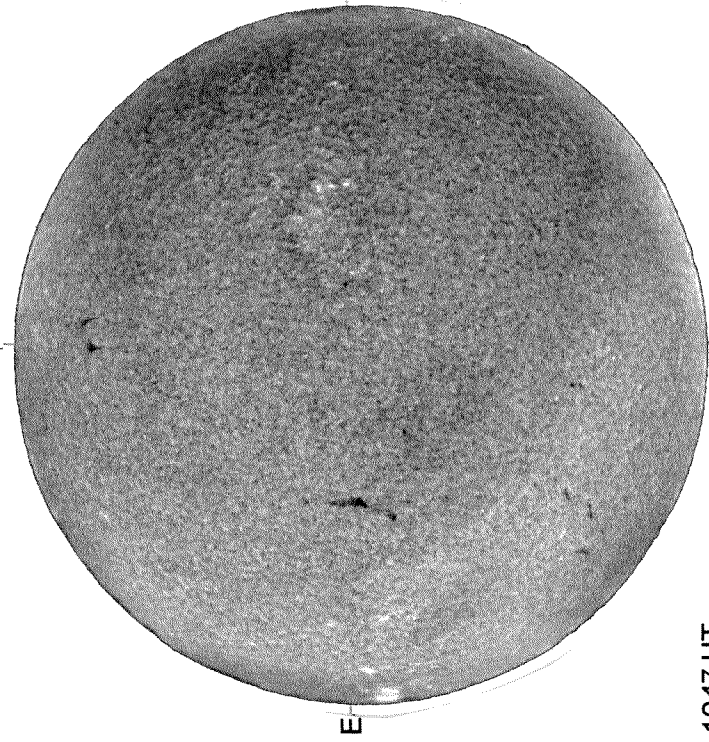
DeltaY = 13.1
DeltaX = 9.6



16.81 -
17.77 UT

White= +7.5G
Black = -7.5G

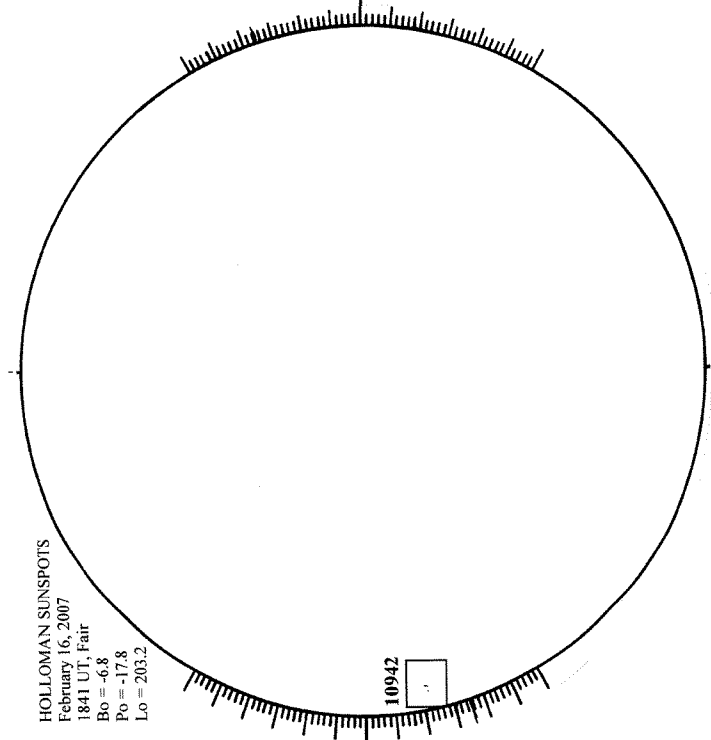
KANZELHOHE H-ALPHA



1047 UT

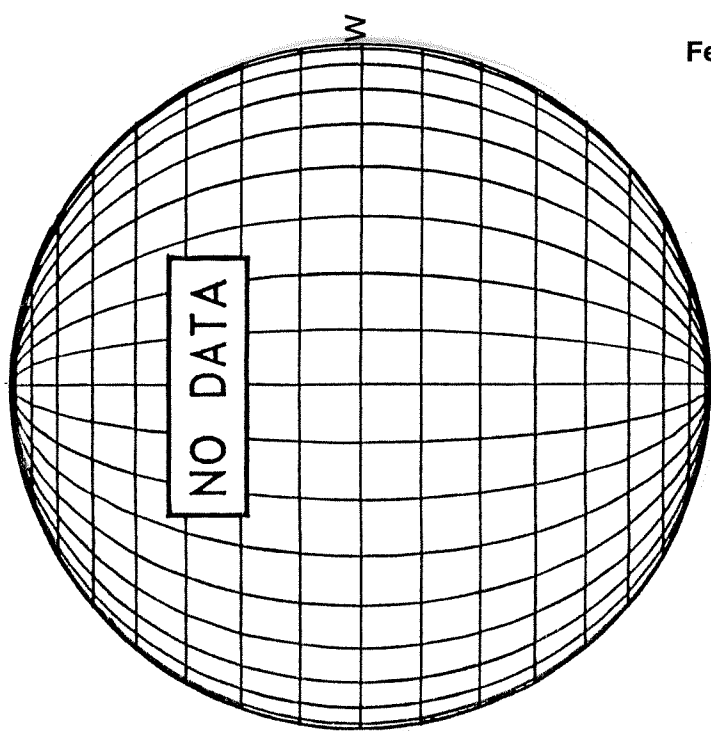
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 16, 2007
1841 UT, Fair
Bo = -6.8
Po = -17.8
Lo = 203.2



1841 UT

SACRAMENTO PEAK CORONA (1.15 Radii)---

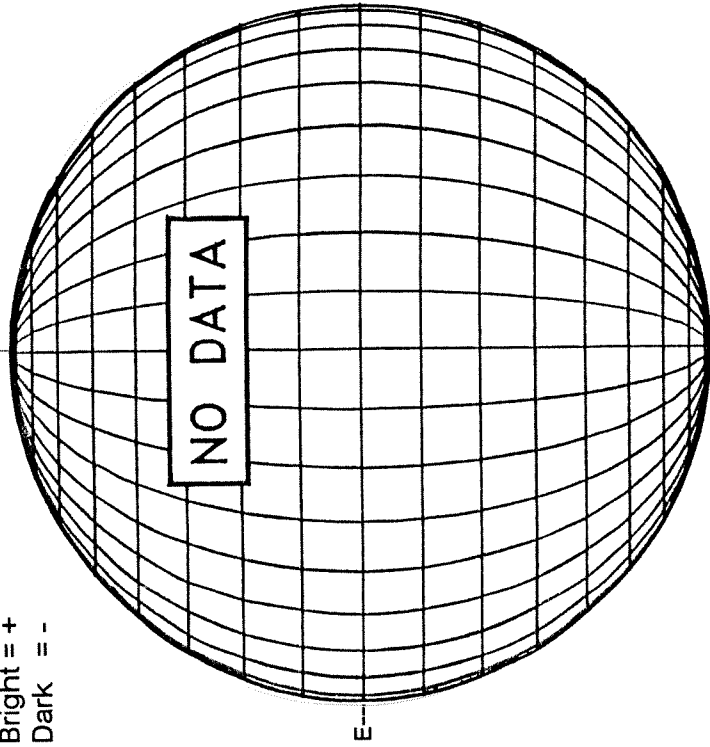


55
Feb 07

FEBRUARY 17, 2007 (P=-17.93, Bo=-6.90, Lo= 199.85)

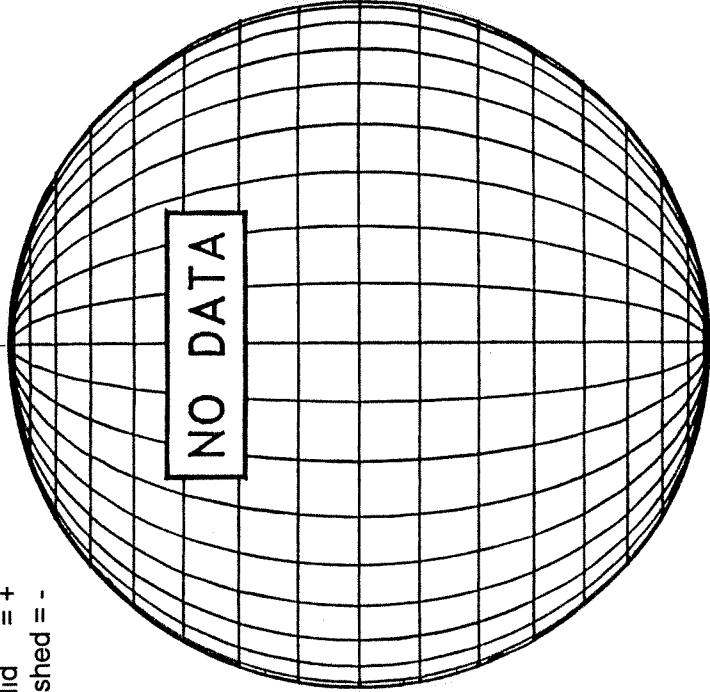
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



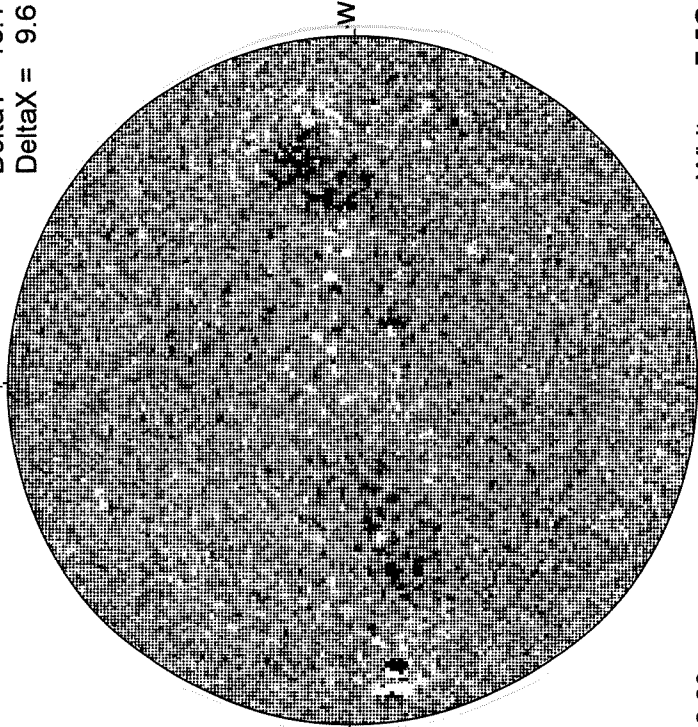
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

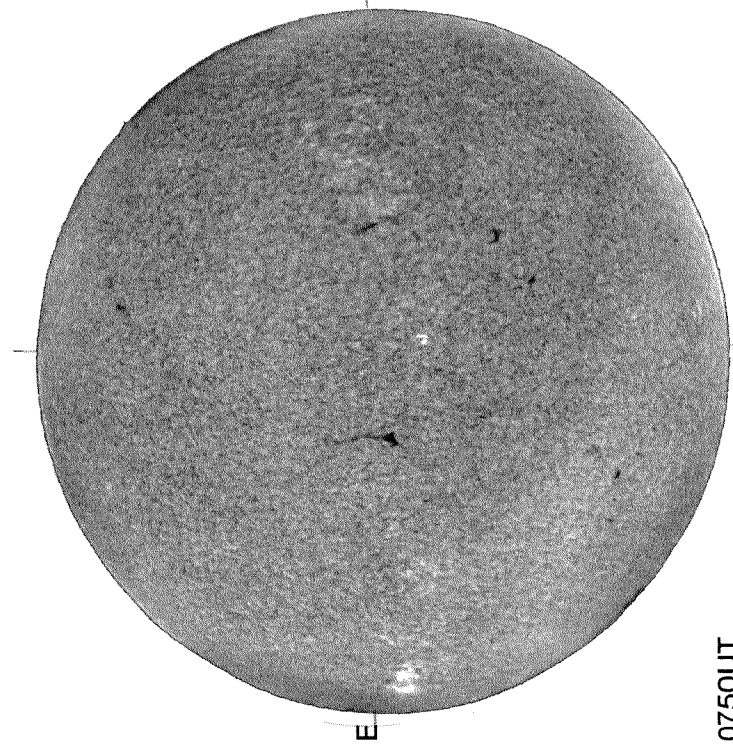
DeltaY = 13.1
DeltaX = 9.6



16.99 -
17.96 UT

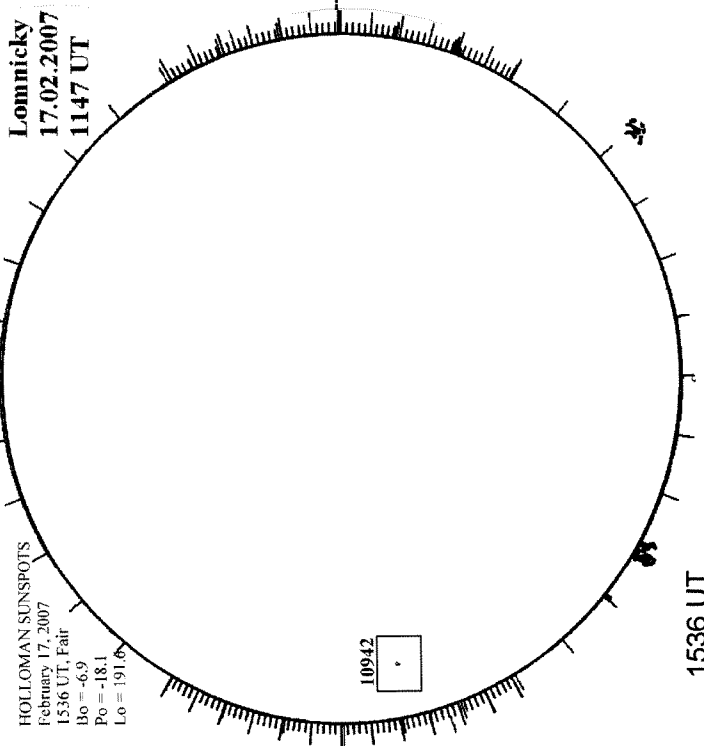
White= +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA



0750UT

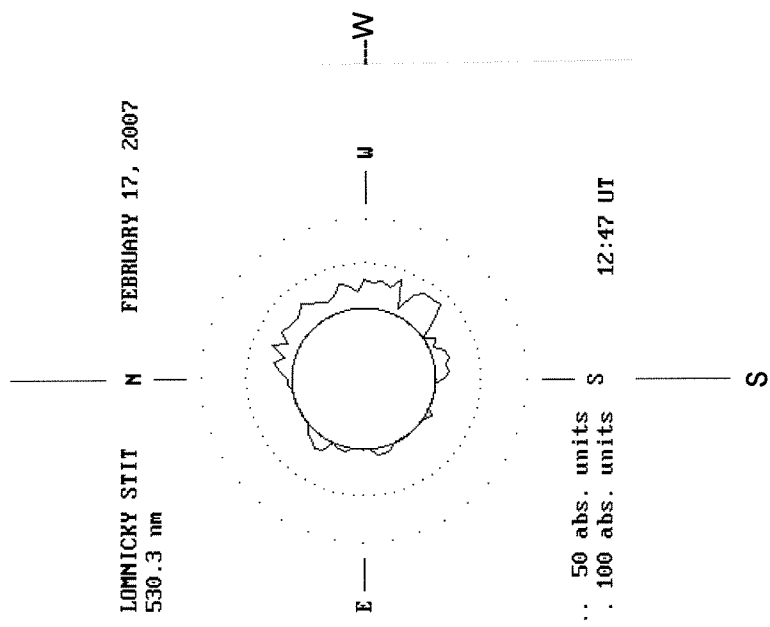
HOLLOMAN SUNSPOTS



HOLLOMAN SUNSPOTS
February 17, 2007
1536 UT, Fair
Bo = -6.9
Po = -18.1
Lo = 191.6

Lomnicky
17.02.2007
1147 UT

LOMNICKY PEAK CORONA (1.04 Radii)----



LOMNICKY STIT
530.3 nm

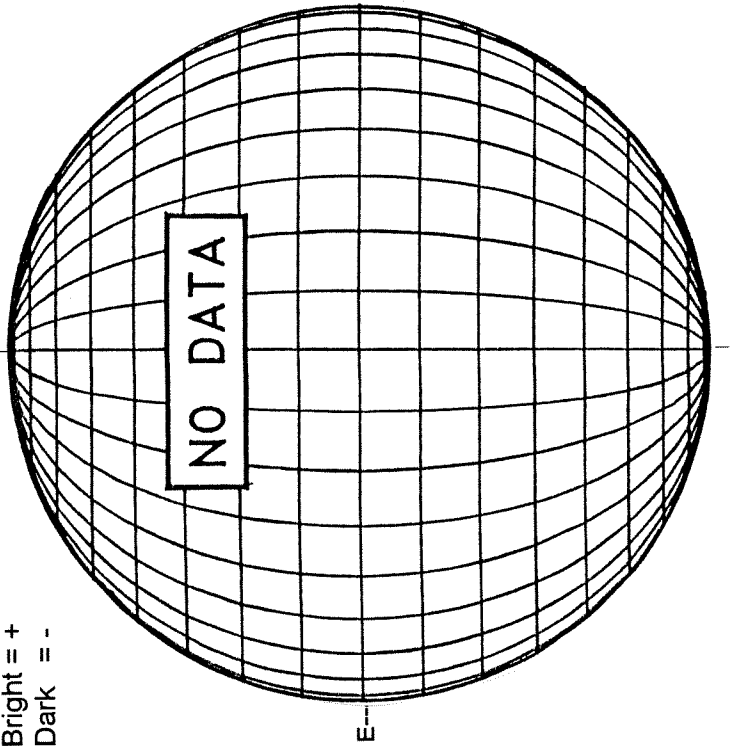
... 50 abs. units
... 100 abs. units

12:47 UT

KITT PEAK MAGNETOGRAM--SOLIS

854.2 nm

Bright = +
Dark = -



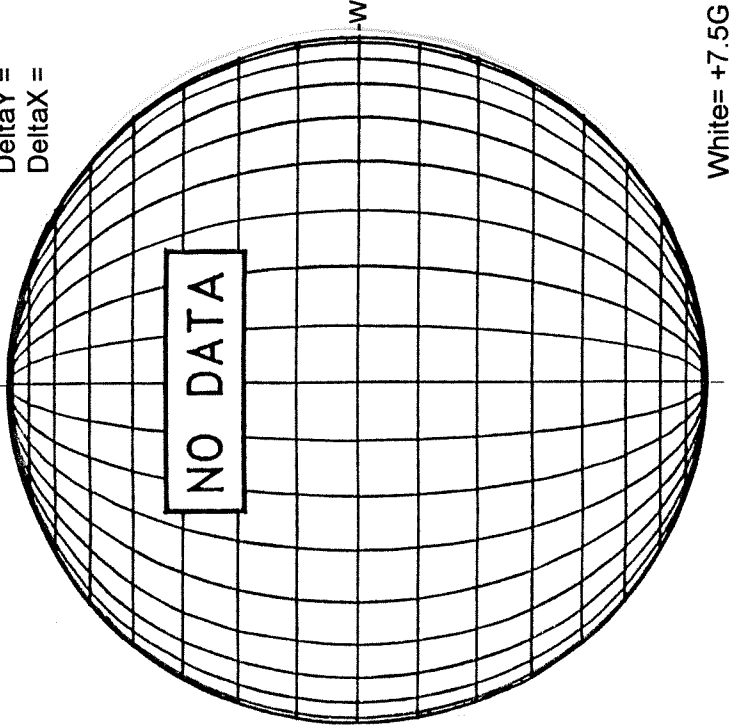
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

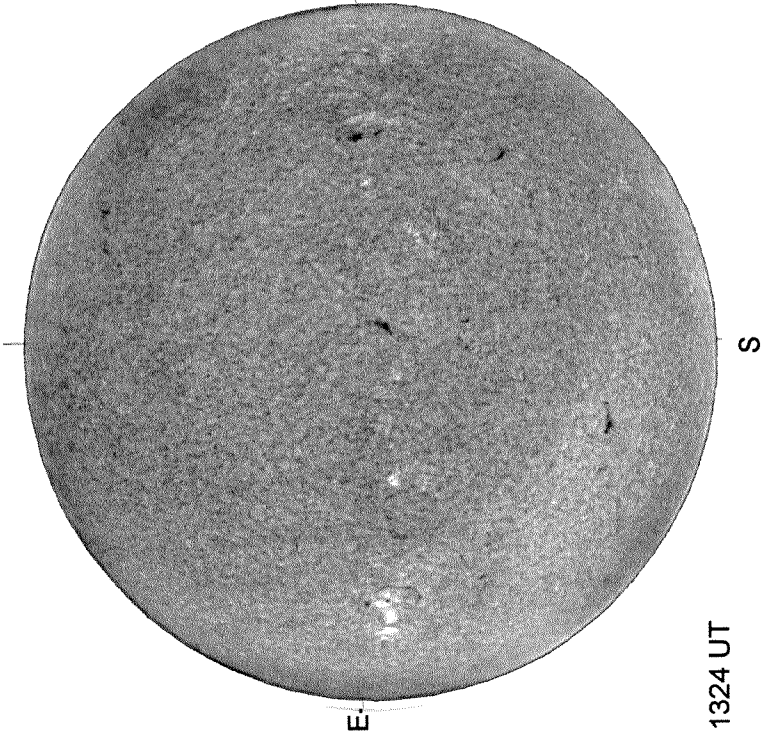
Delta Y =
Delta X =



White = +7.5G
Black = -7.5G

1858 UT

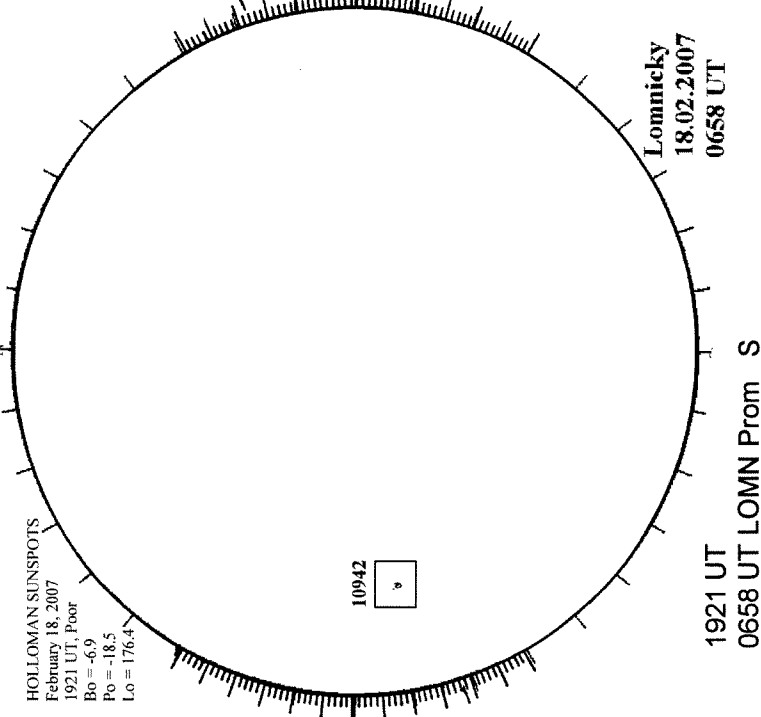
KANZELHOHE H-ALPHA



1324 UT

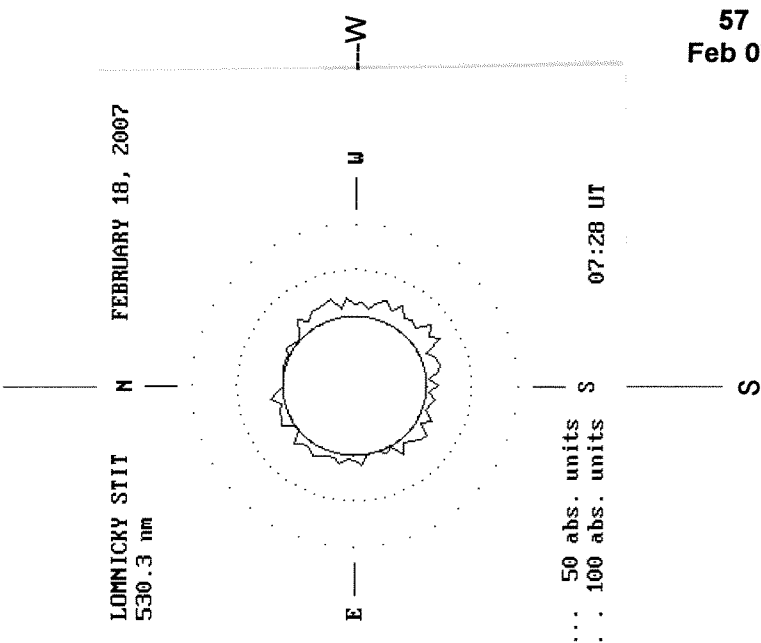
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 18, 2007
1921 UT, Poor
Bo = -6.9
Po = -18.5
Lo = 176.4



1921 UT
0658 UT LOMN Prom

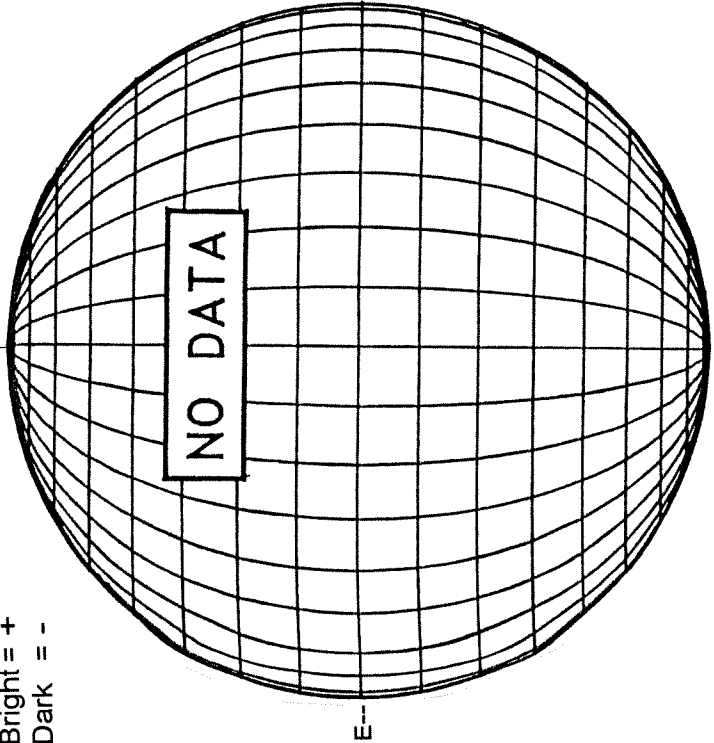
LOMNICKY PEAK CORONA (1.04 Radii)----



FEBRUARY 19, 2007 (P=-18.57, Bo=-6.97, Lo= 173.51)

KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



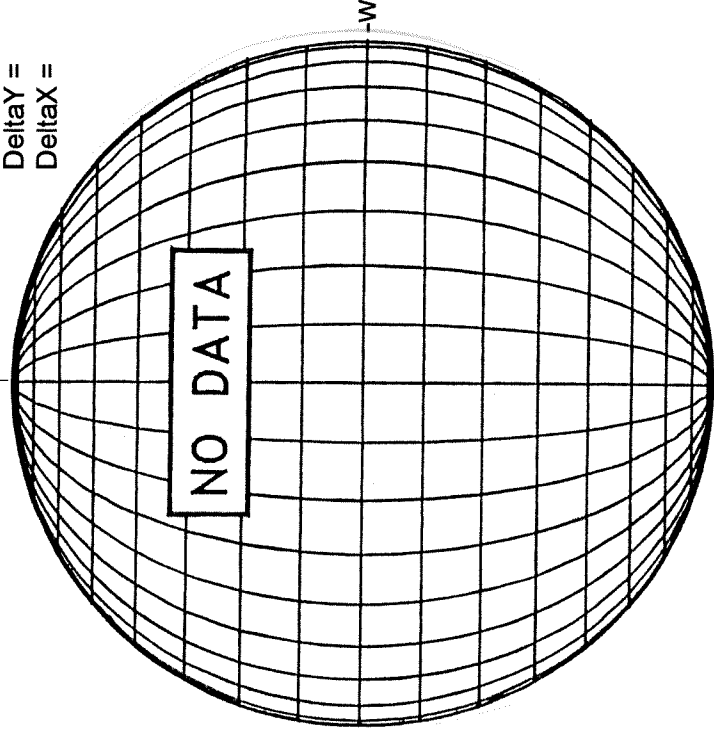
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

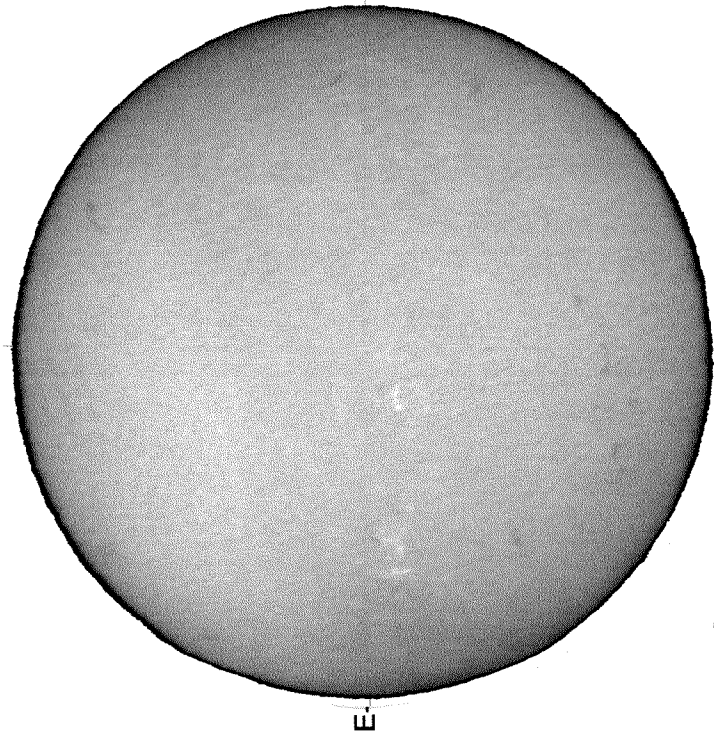
DeltaY =
DeltaX =



White= +7.5G
Black = -7.5G

1700 UT

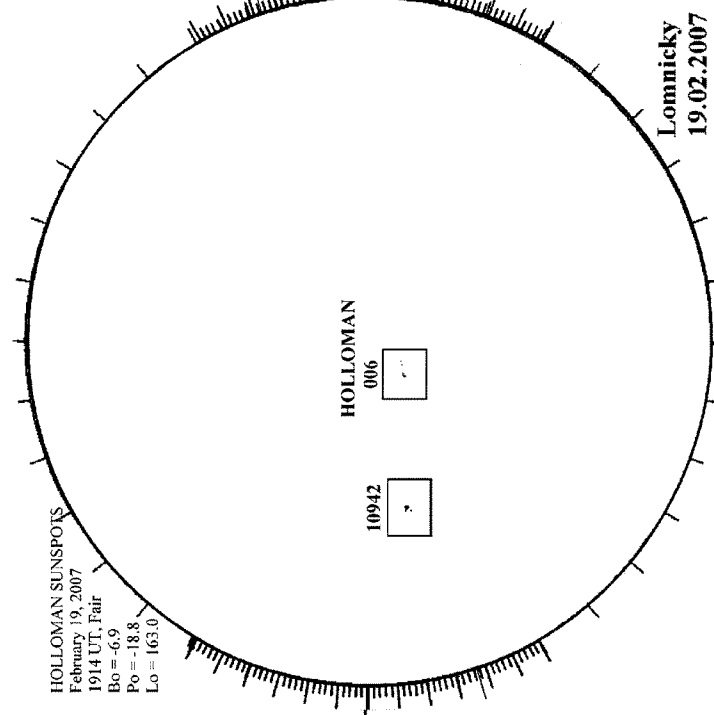
MEUDON H-ALPHA



1433 UT

HOLLOMAN SUNSPOTS

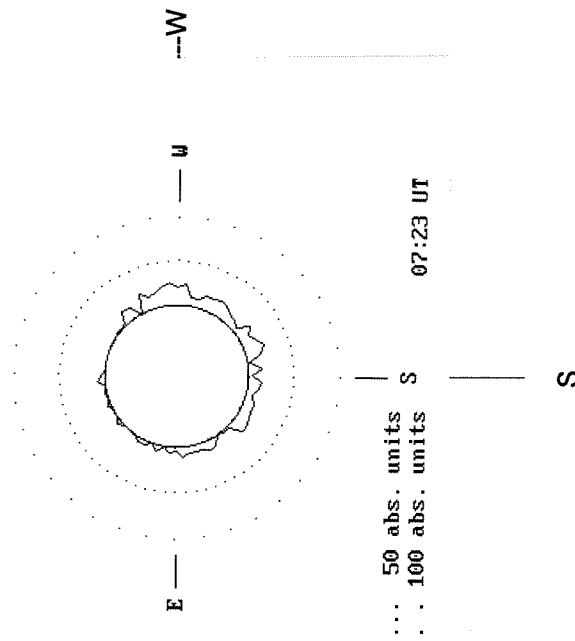
HOLLOMAN SUNSPOTS
February 19, 2007
1914 UT, Fair
Bo = -6.9
Po = -18.8
Lo = 163.0



1914 UT
0643 UT LOMN Prom S

LOMNICKY PEAK CORONA (1.04 Radii)----

LOMNICKY STIT
530.3 nm
FEBRUARY 19, 2007

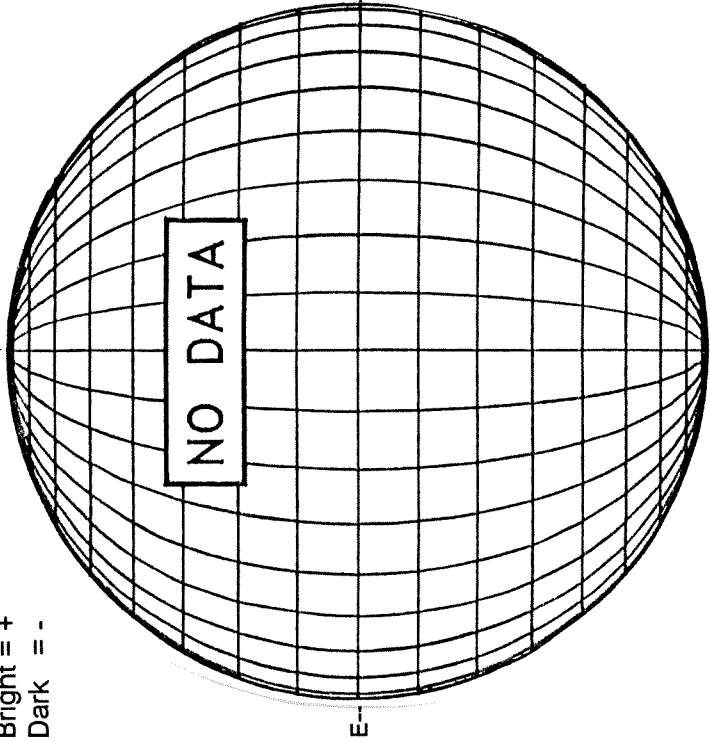


... 50 abs. units
.. 100 abs. units
07:23 UT

KITT PEAK MAGNETOGRAM--SOLIS

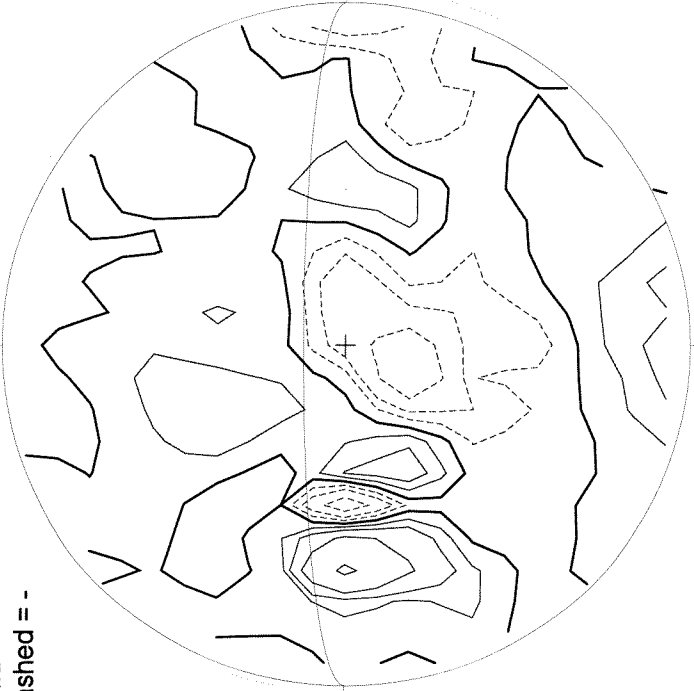
854.2 nm

Bright = +
Dark = -



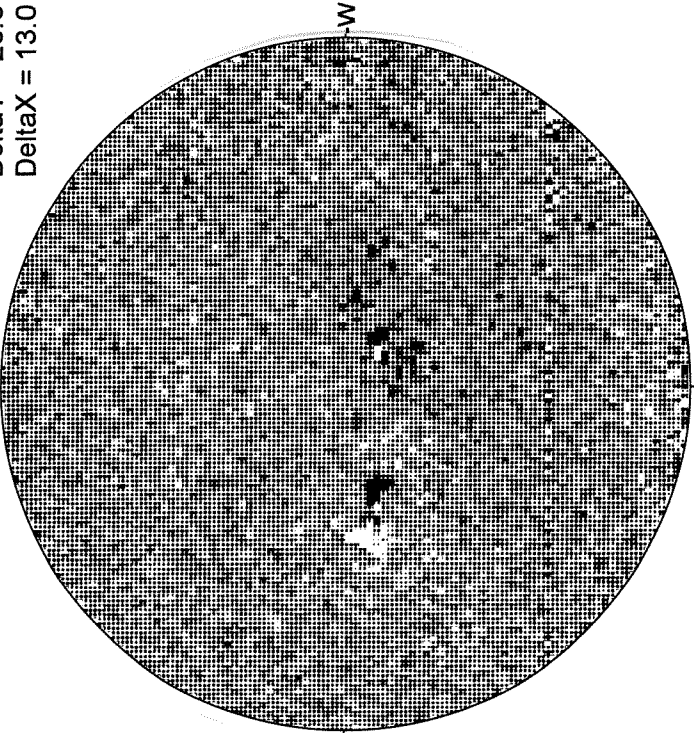
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

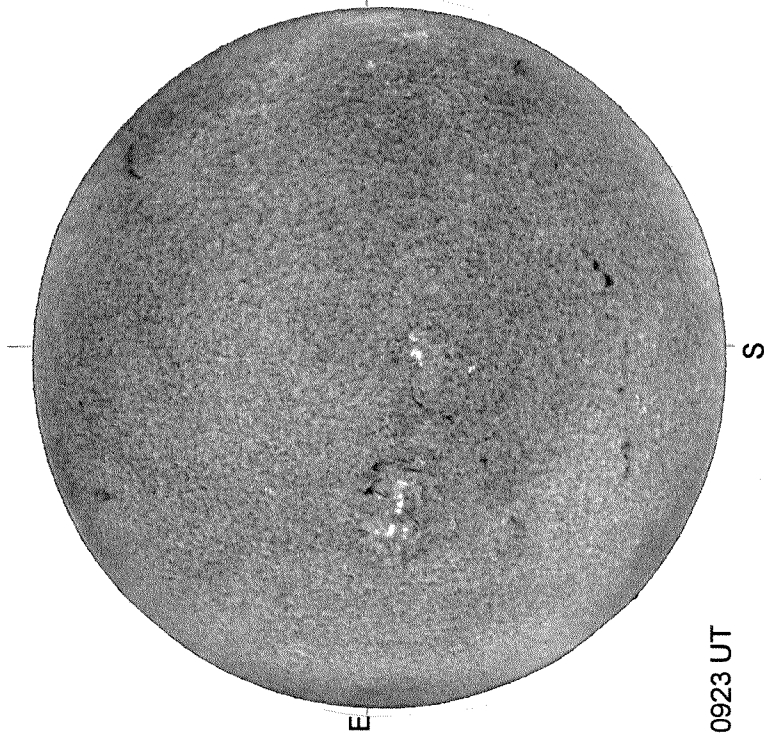
DeltaY = 20.0
DeltaX = 13.0



16.13 -
16.59 UT

White= +7.5G
Black = -7.5G

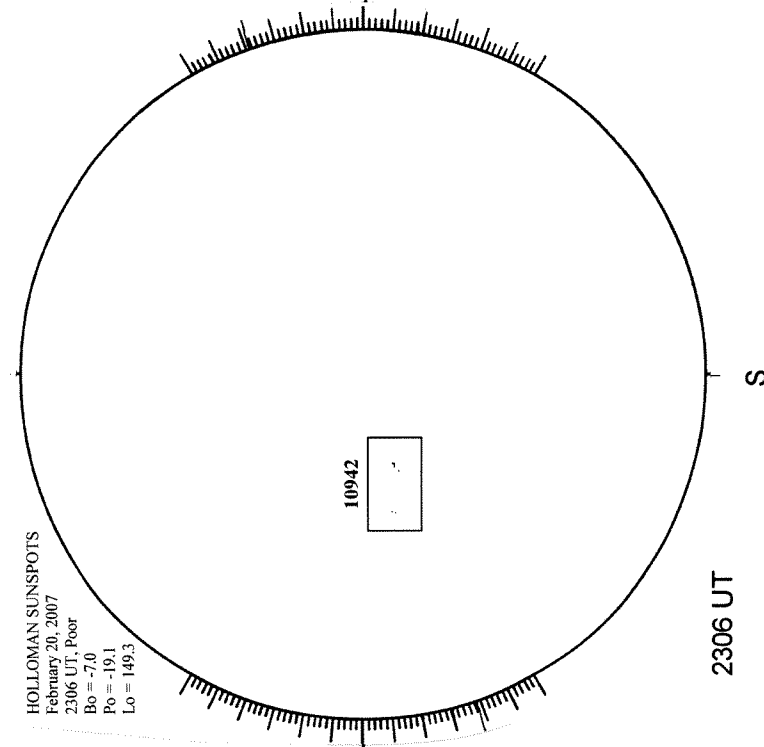
KANZELHOHE H-ALPHA



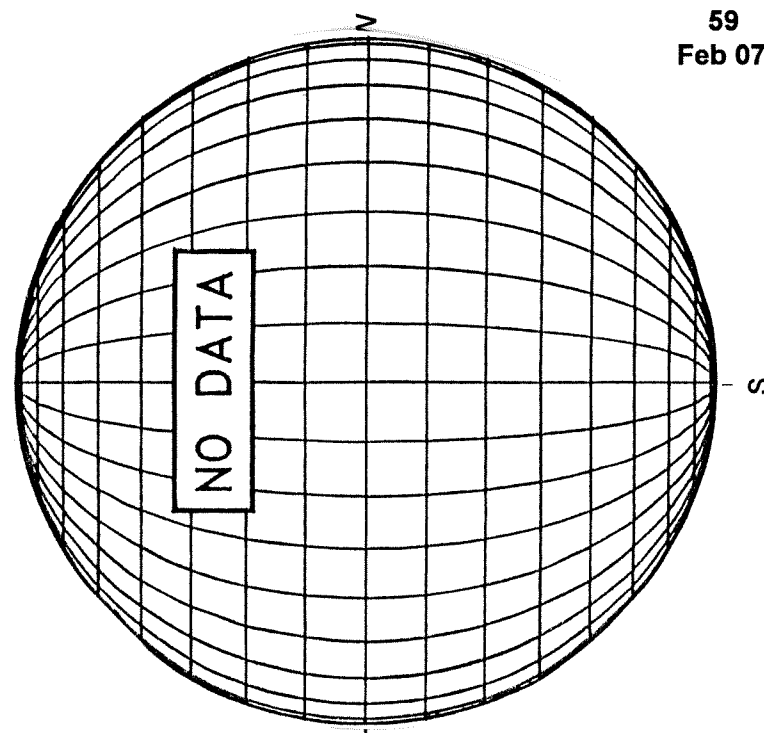
0923 UT

HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 20, 2007
2306 UT, Poor
Bo = -7.0
Po = -19.1
Lo = 149.3



SACRAMENTO PEAK CORONA (1.15 Radii)----

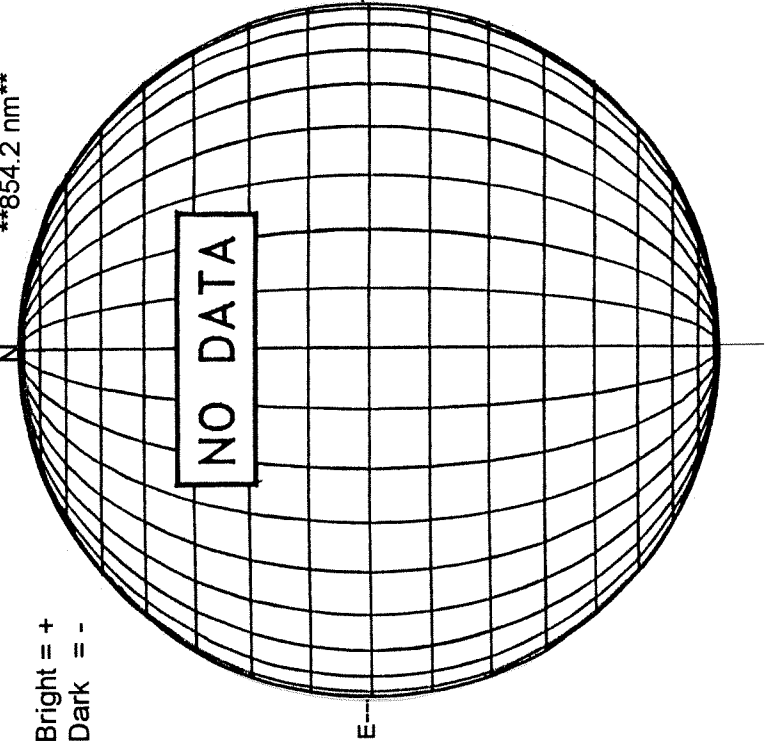


FEBRUARY 21, 2007 (P=-19.19, Bo=-7.04, Lo= 147.18)

KITT PEAK MAGNETOGRAM--SOLIS

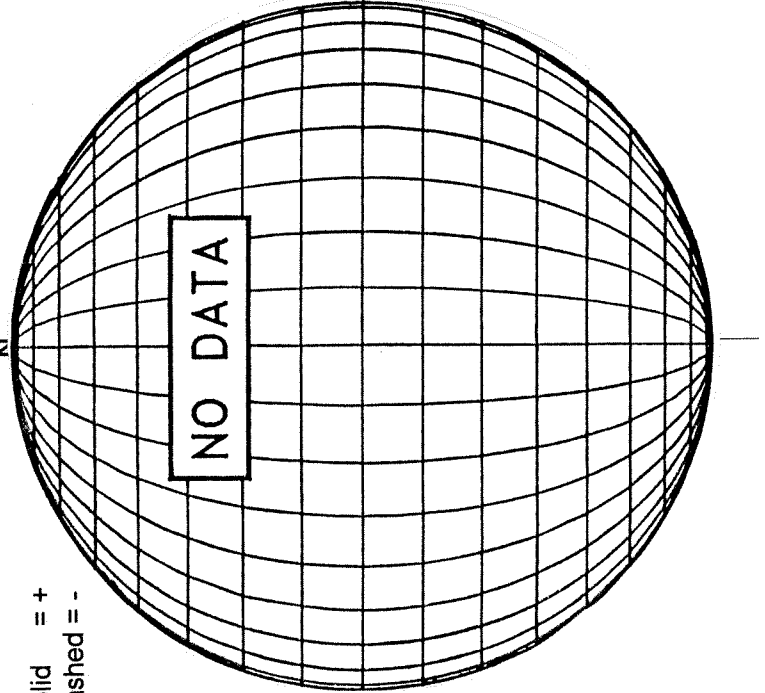
854.2 nm

Bright = +
Dark = -



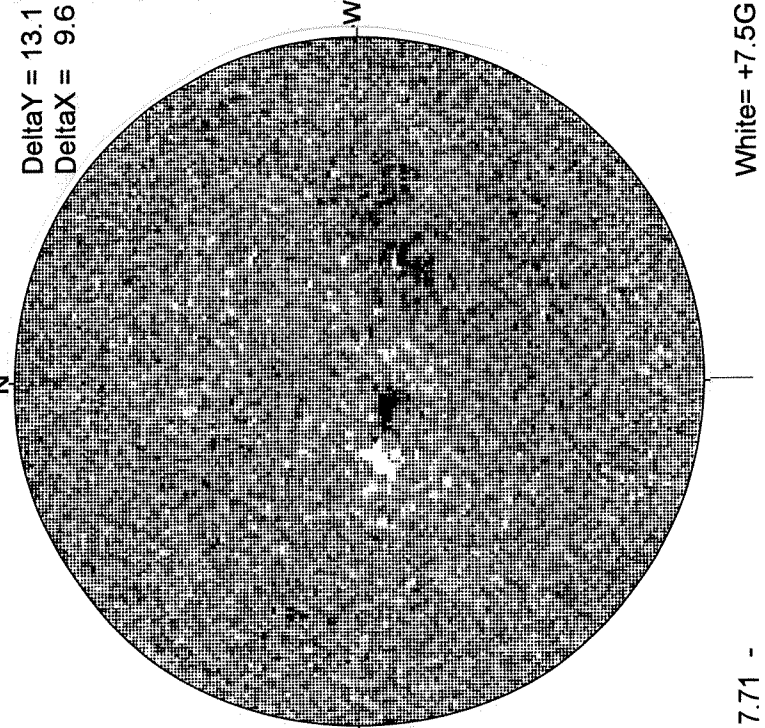
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

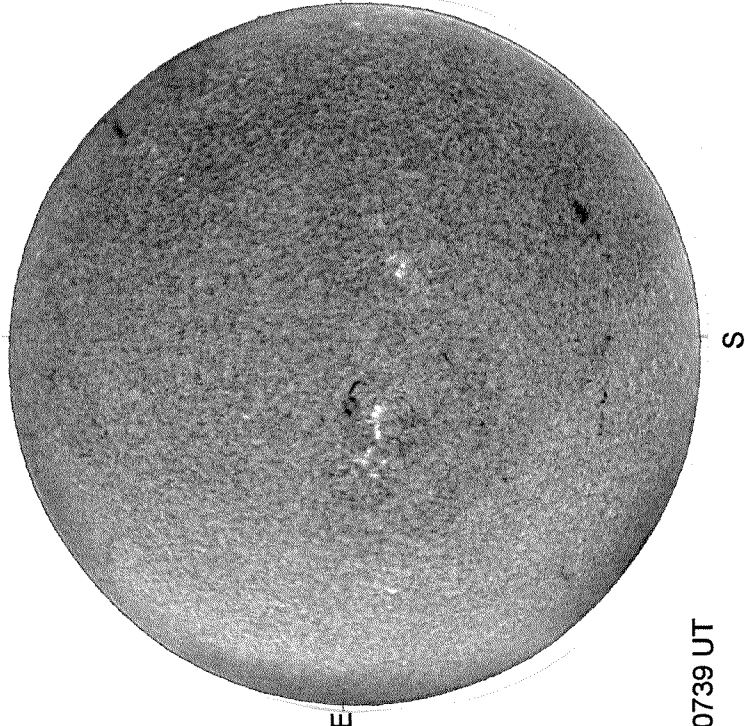
Delta Y = 13.1
Delta X = 9.6



17.71 -
18.68 UT

White= +7.5G
Black = -7.5G

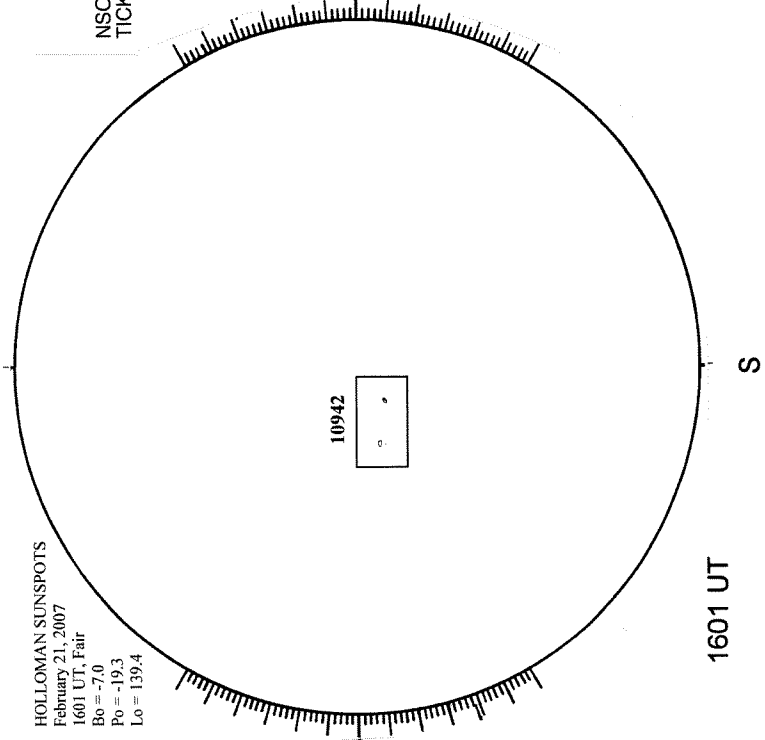
KANZELHOHE H-ALPHA



0739 UT

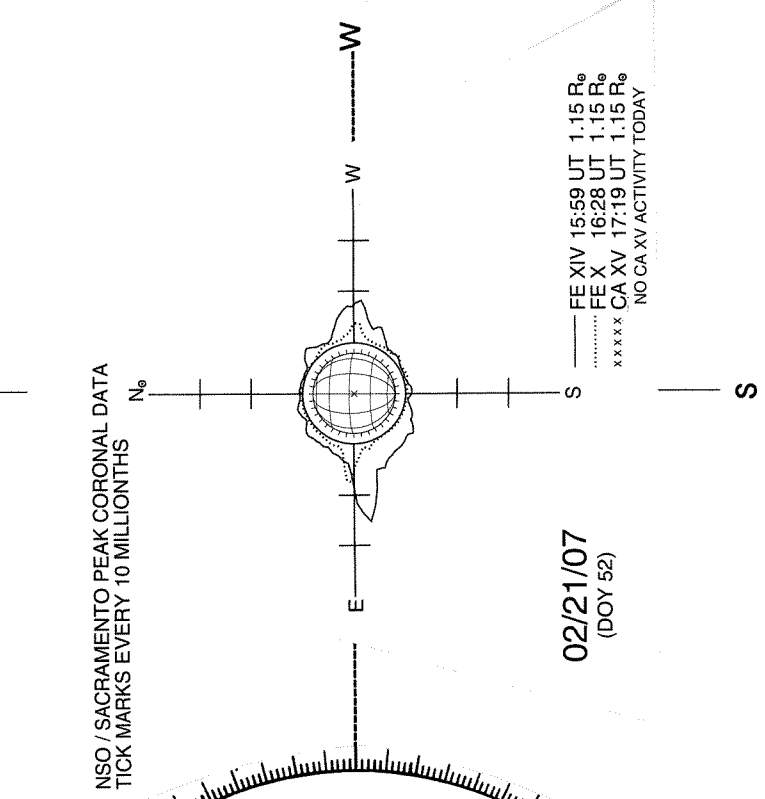
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 21, 2007
1601 UT, Fair
Bo = -7.0
Po = -19.3
Lo = 139.4



1601 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

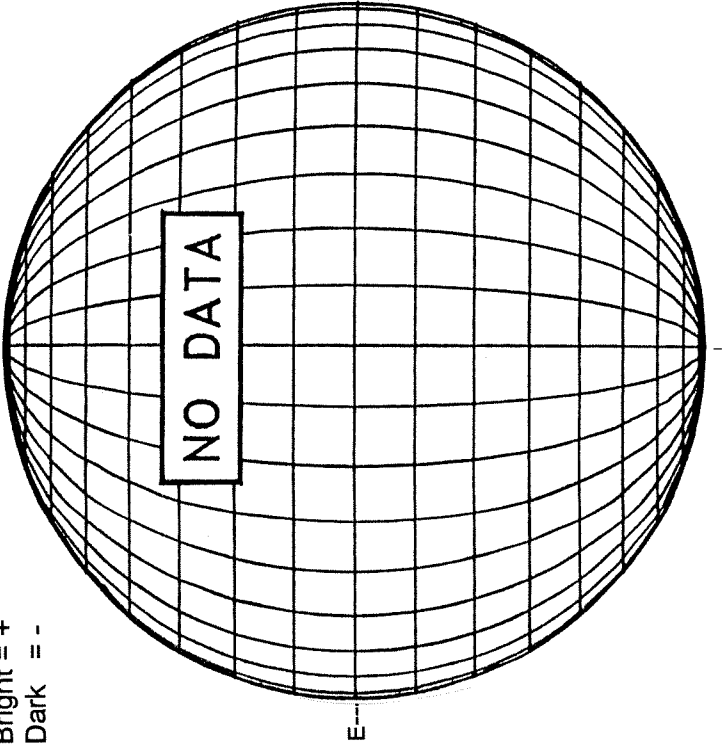


02/21/07
(DOY 52)

FE XIV 15:59 UT 1.15 R_o
FE X 16:28 UT 1.15 R_o
CA XV 17:19 UT 1.15 R_o
NO CA XV ACTIVITY TODAY

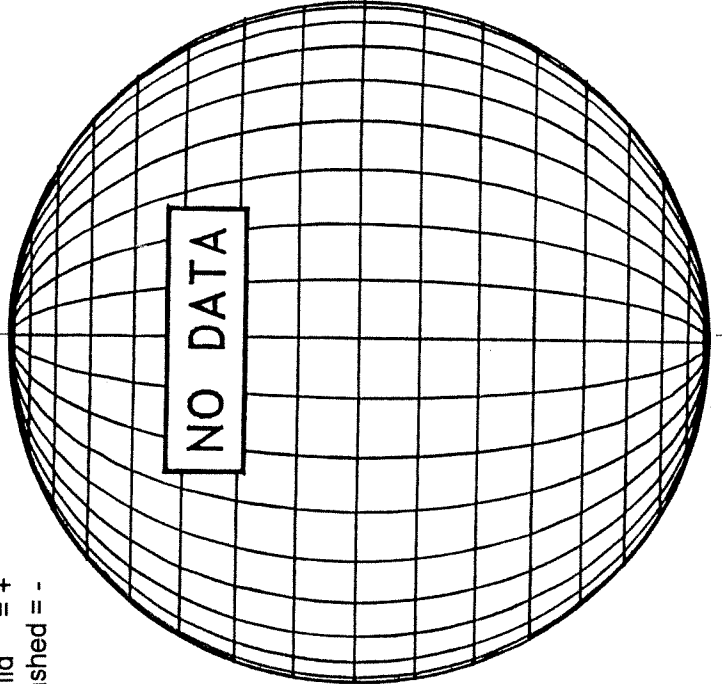
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



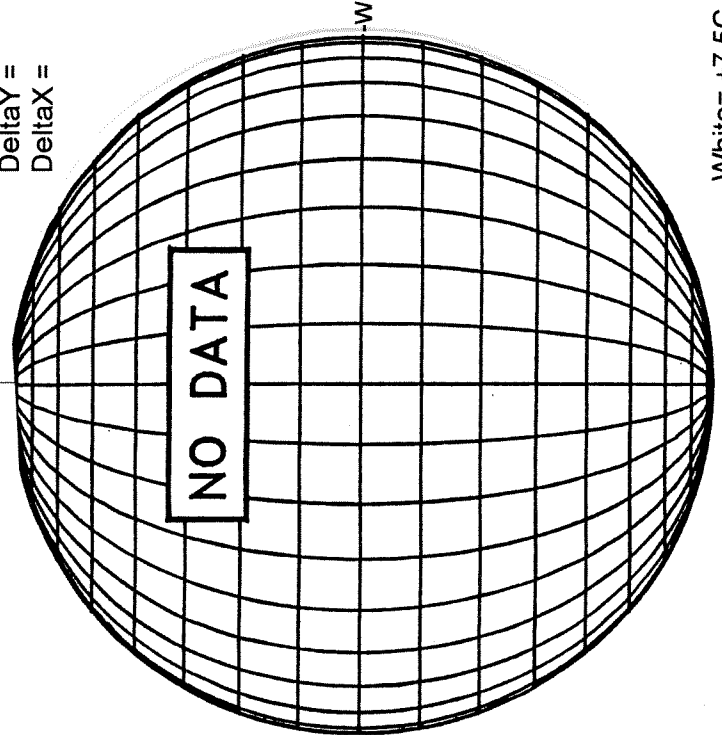
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =



White= +7.5G
Black = -7.5G

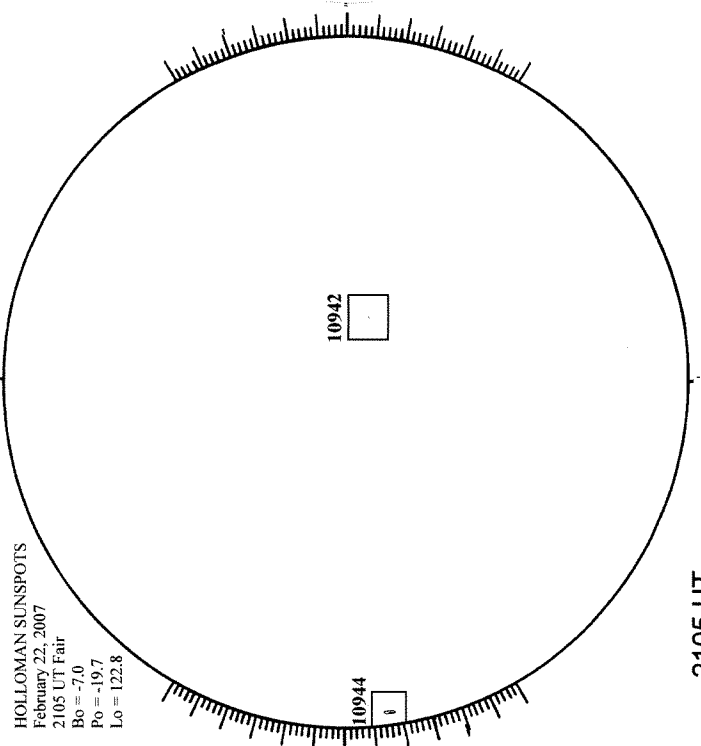
KANZELHOHE H-ALPHA



0903 UT

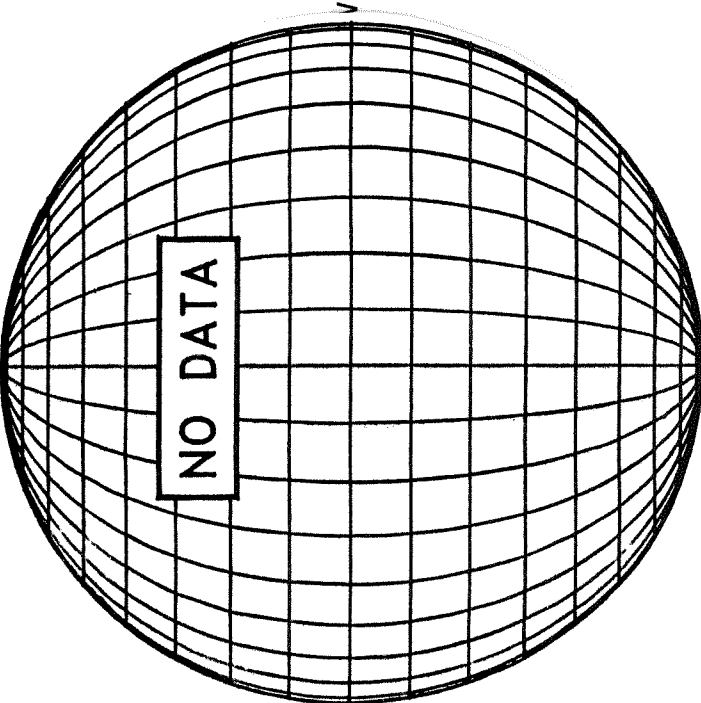
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 22, 2007
2105 UT Fair
Bo = -7.0
Po = -19.7
Lo = 122.8



2105 UT

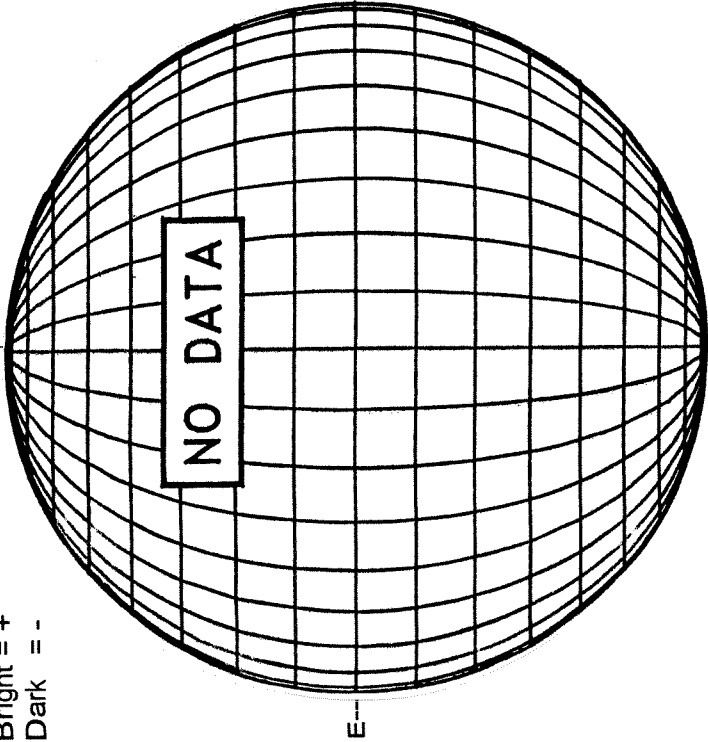
SACRAMENTO PEAK CORONA (1.15 Radii)---



FEBRUARY 23, 2007 (P=-19.79, Bo=-7.10, Lo= 120.84)

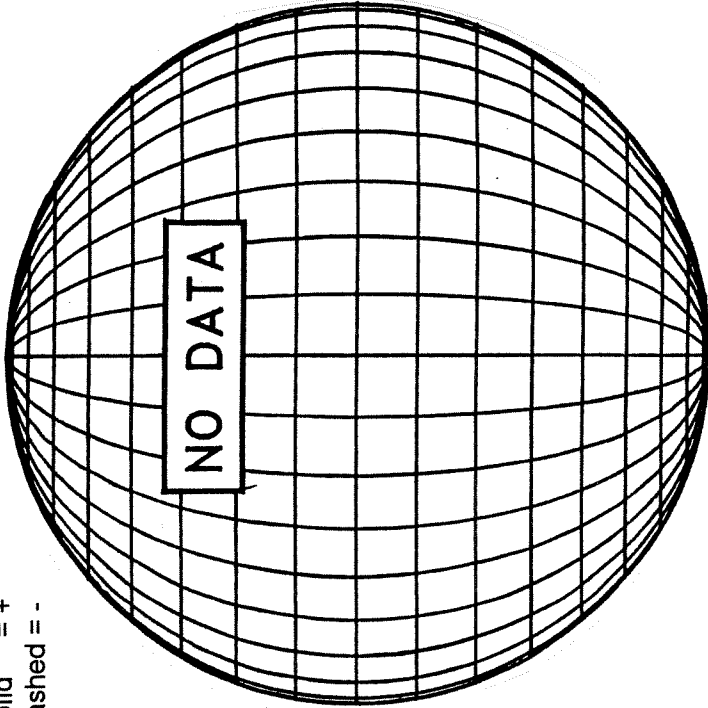
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



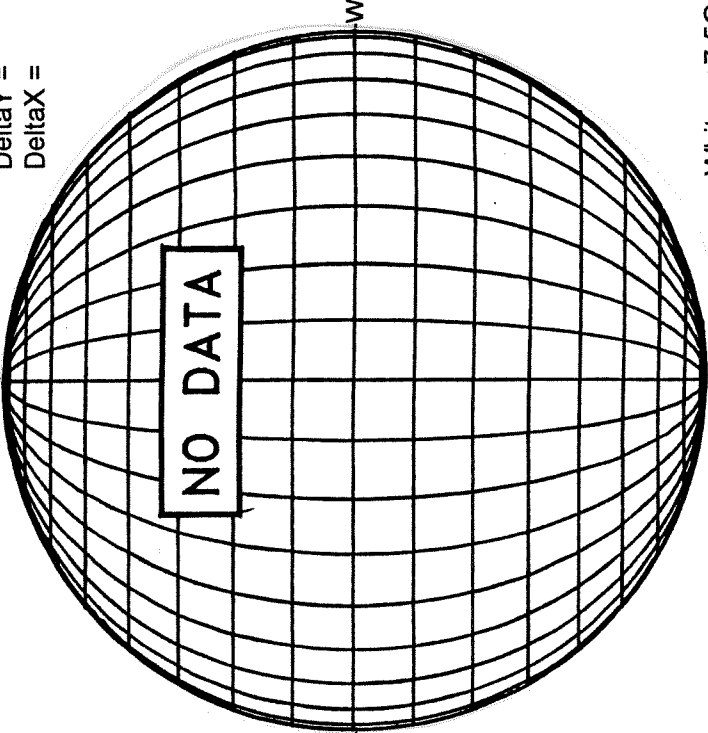
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



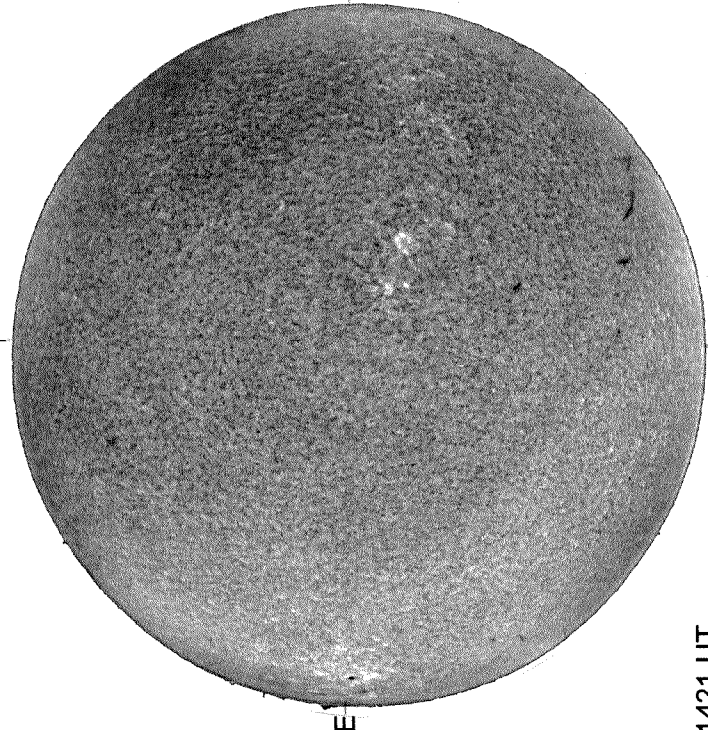
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =



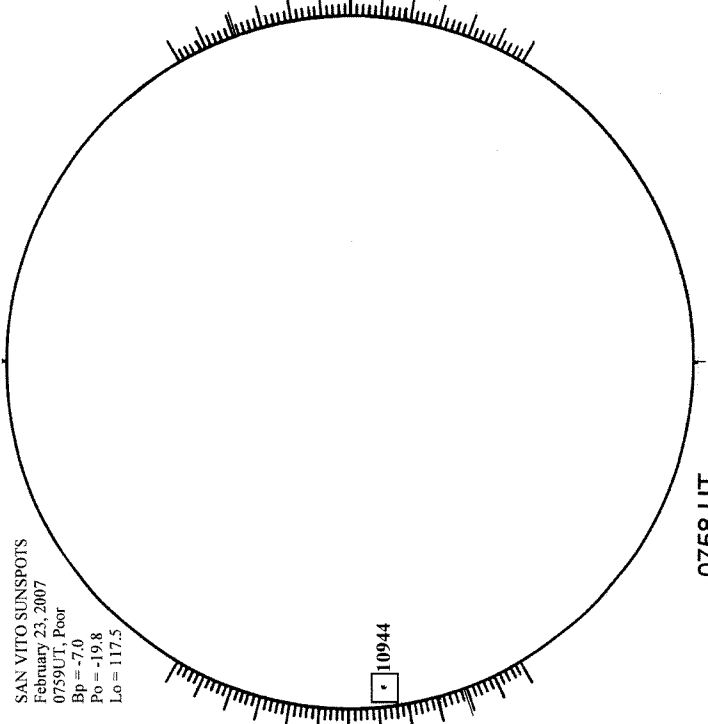
White = +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA



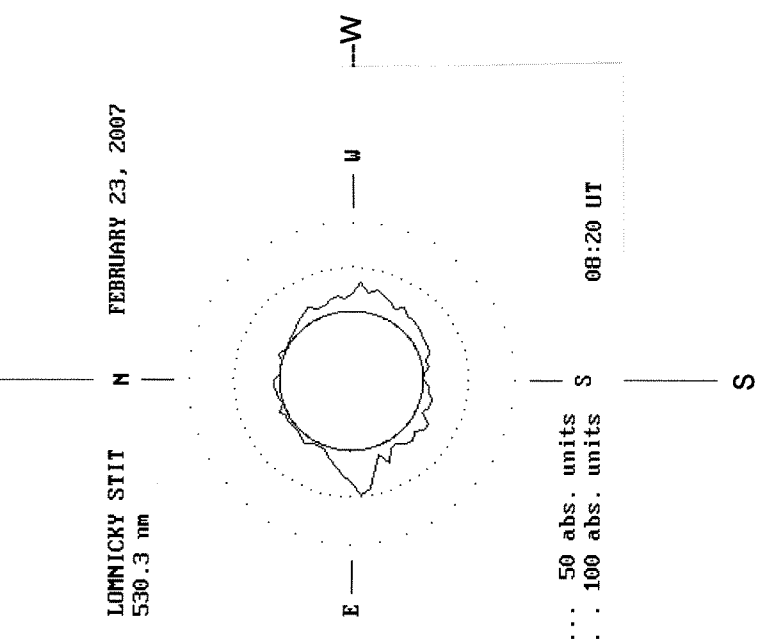
1421 UT

SAN VITO SUNSPOTS



0758 UT

LOMNICKY PEAK CORONA (1.04 Radii)----



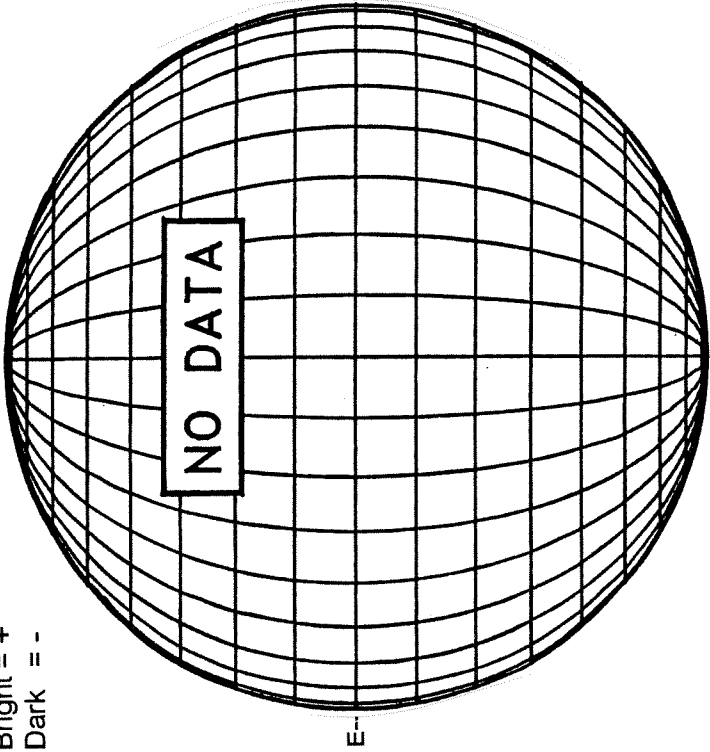
... 50 abs. units
... 100 abs. units

08:20 UT

KITT PEAK MAGNETOGRAM--SOLIS

854.2 nm

Bright = +
Dark = -



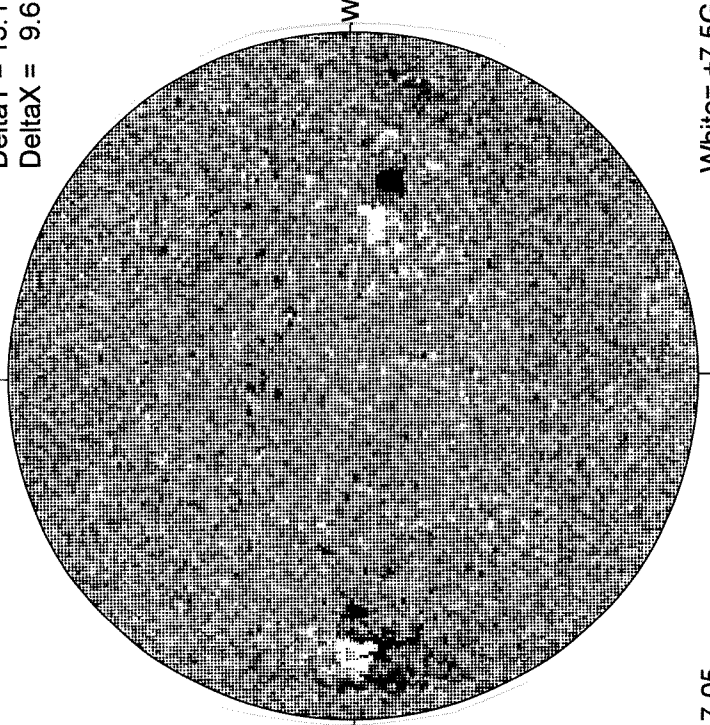
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

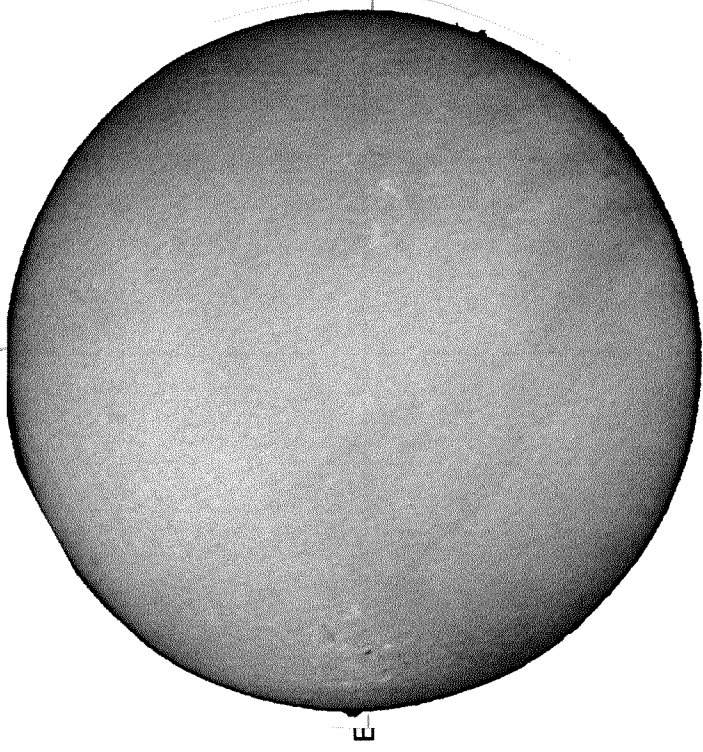
DeltaY = 13.1
DeltaX = 9.6



17.05 -
18.01 UT

White= +7.5G
Black = -7.5G

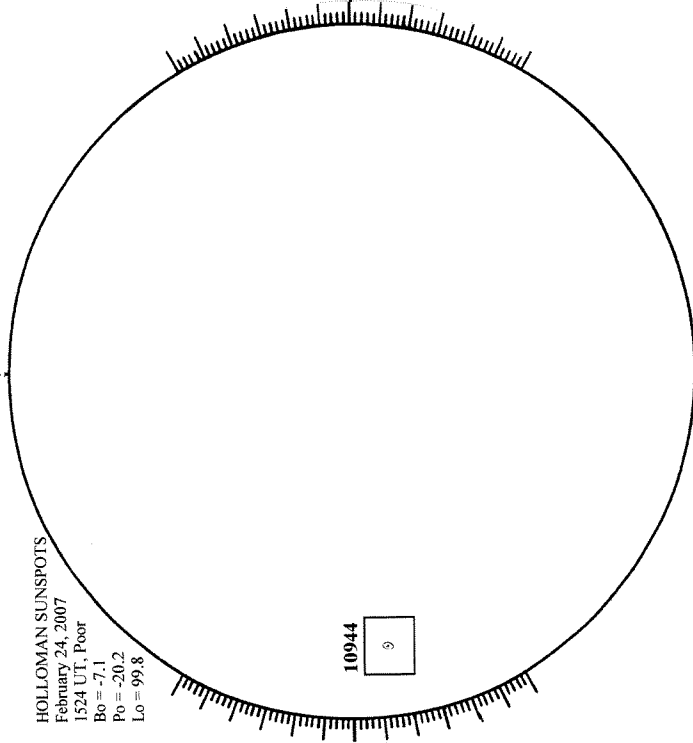
MEUDON H-ALPHA



1026 UT

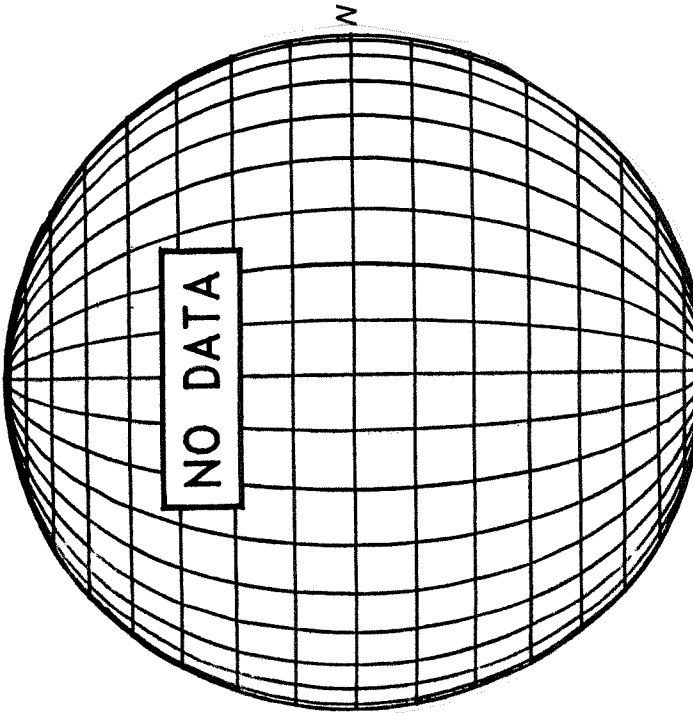
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 24, 2007
1524 UT, Poor
Bo = -7.1
Po = -20.2
Lo = 99.8



1524 UT

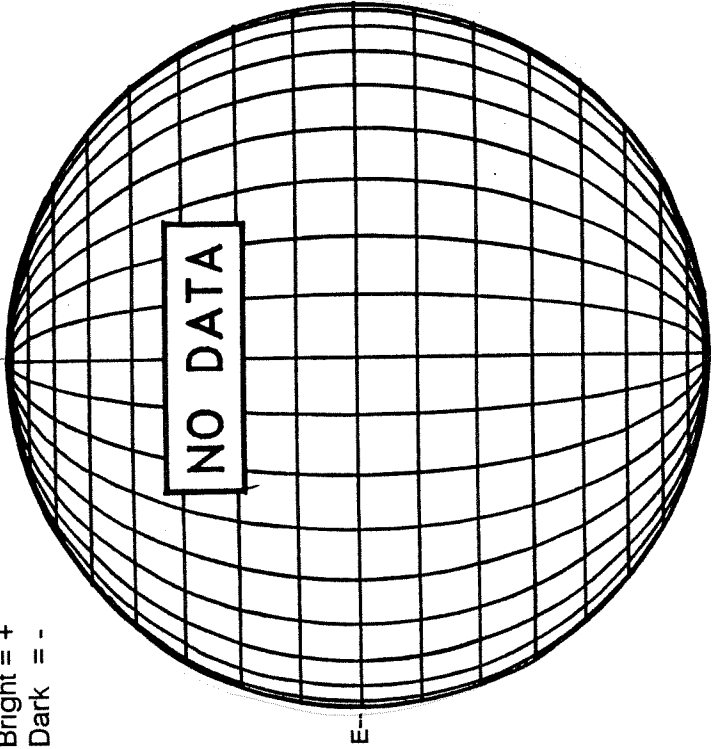
SACRAMENTO PEAK CORONA (1.15 Radii)---



FEBRUARY 25, 2007 (P=-20.36, Bo=-7.14, Lo= 94.50)

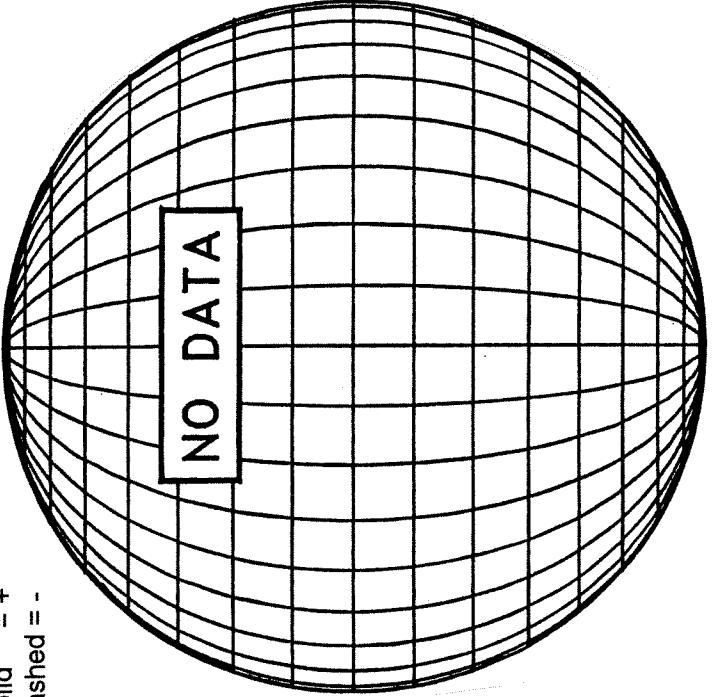
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



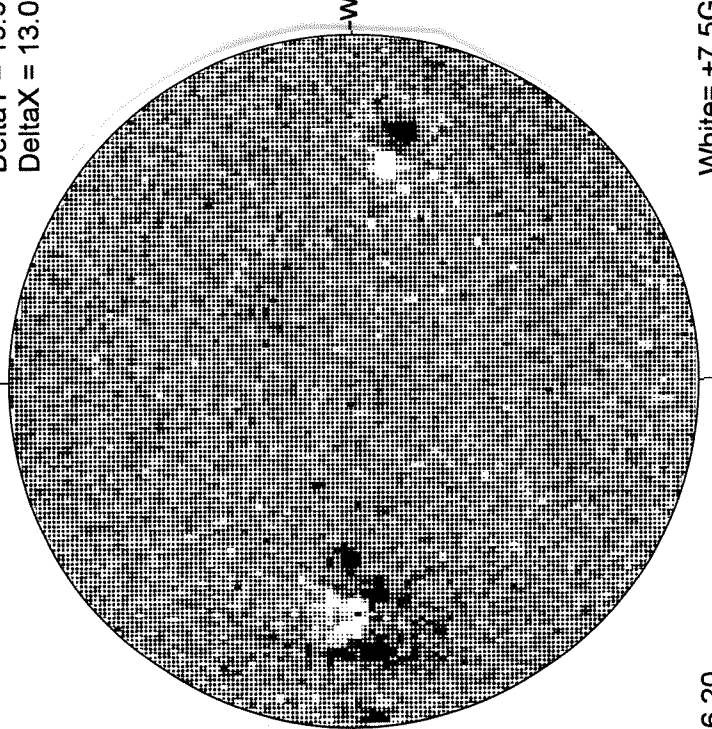
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

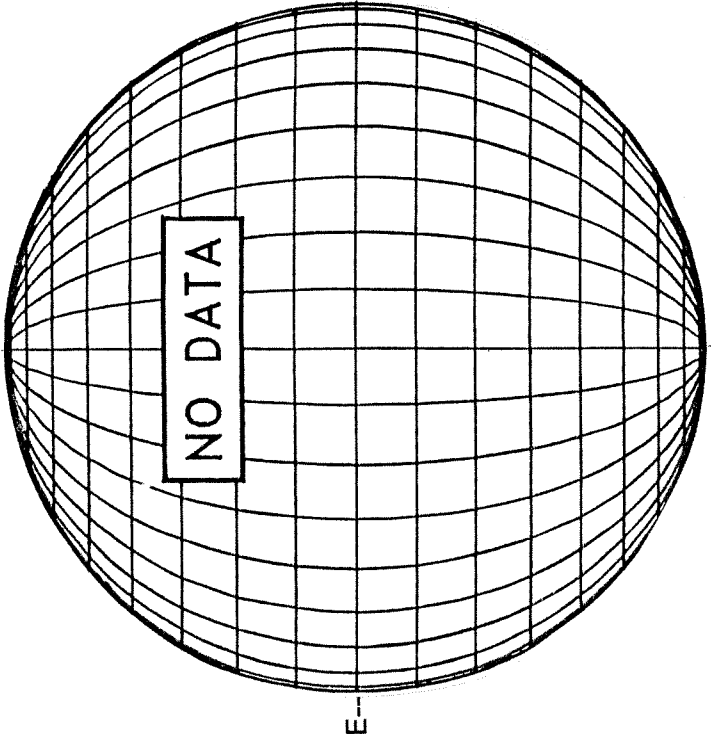
DeltaY = 19.9
DeltaX = 13.0



16.20 -
16.62 UT

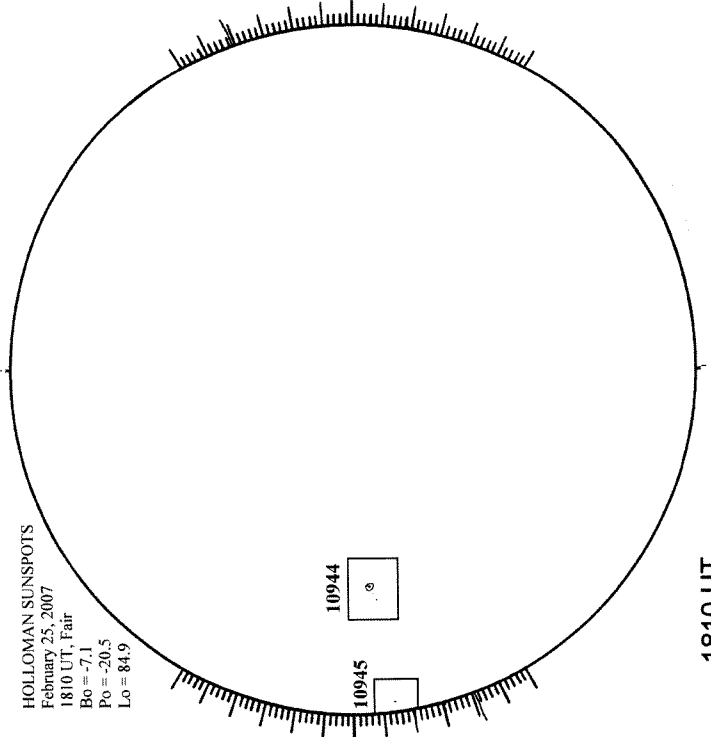
White= +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA

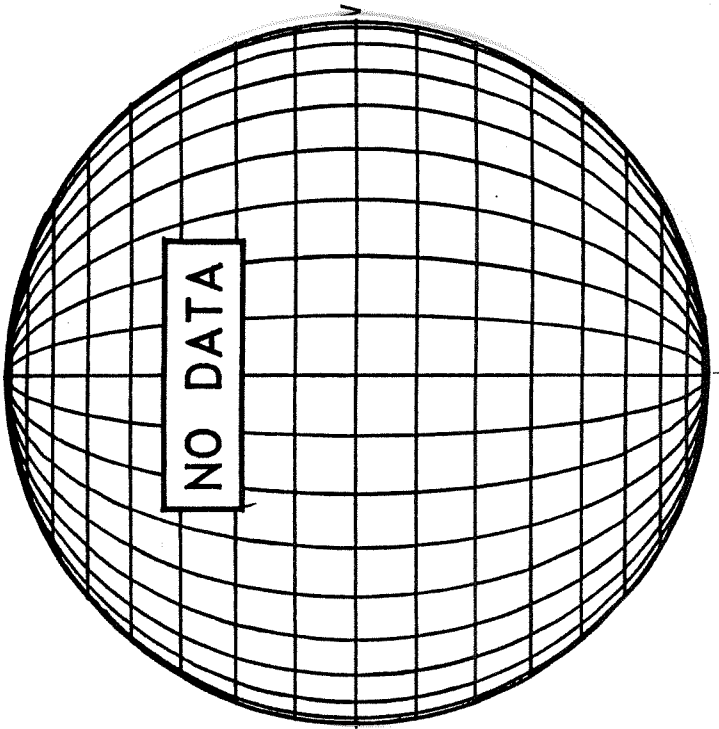


HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 25, 2007
1810 UT, Fair
Bo = -7.1
Po = -20.5
Lo = 84.9



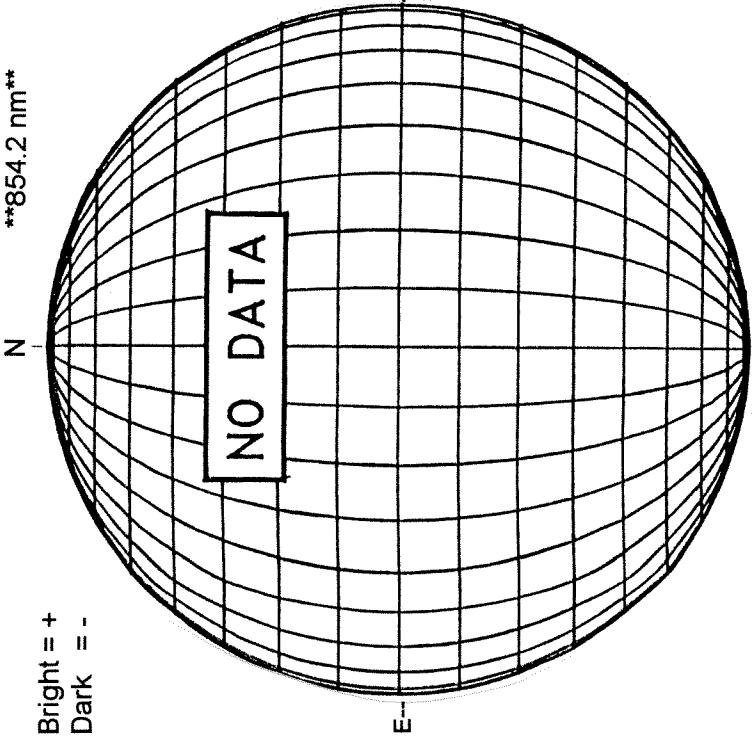
SACRAMENTO PEAK CORONA (1.15 Radii)----



FEBRUARY 26, 2007 (P=-20.63, Bo=-7.17, Lo= 81.33)

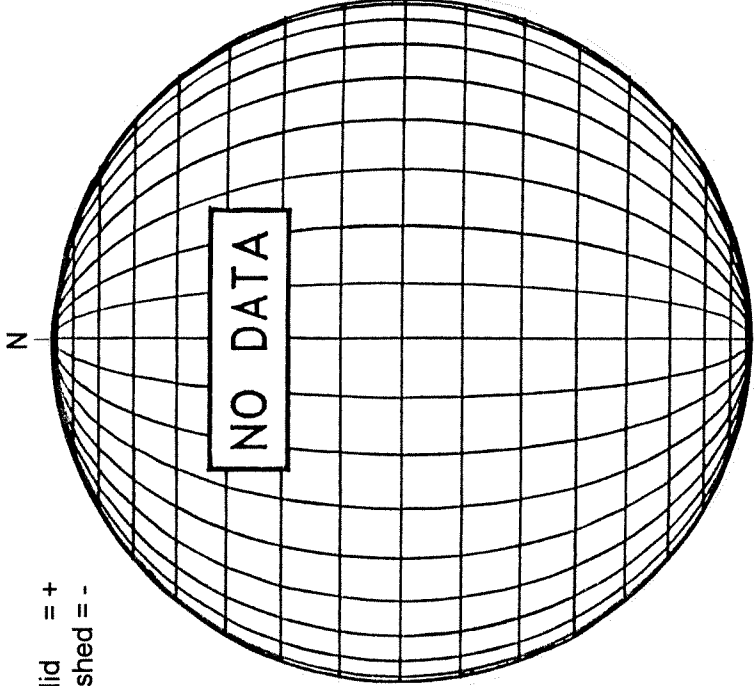
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



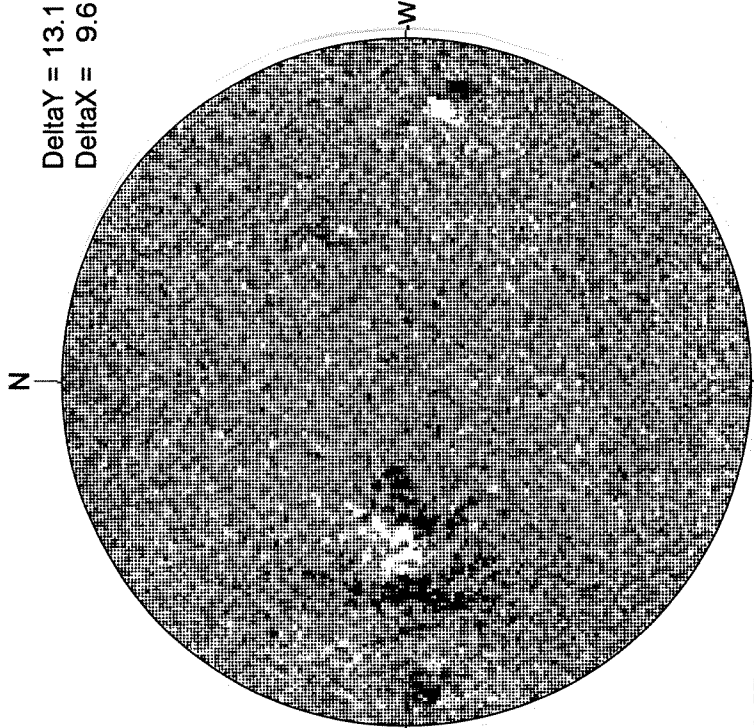
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

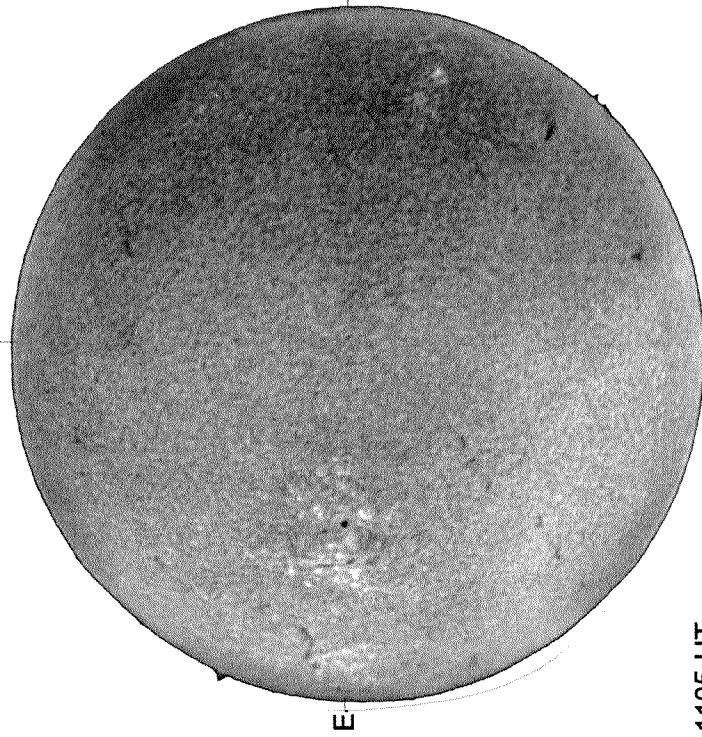
DeltaY = 13.1
DeltaX = 9.6



16.57 -
17.54 UT

White= +7.5G
Black = -7.5G

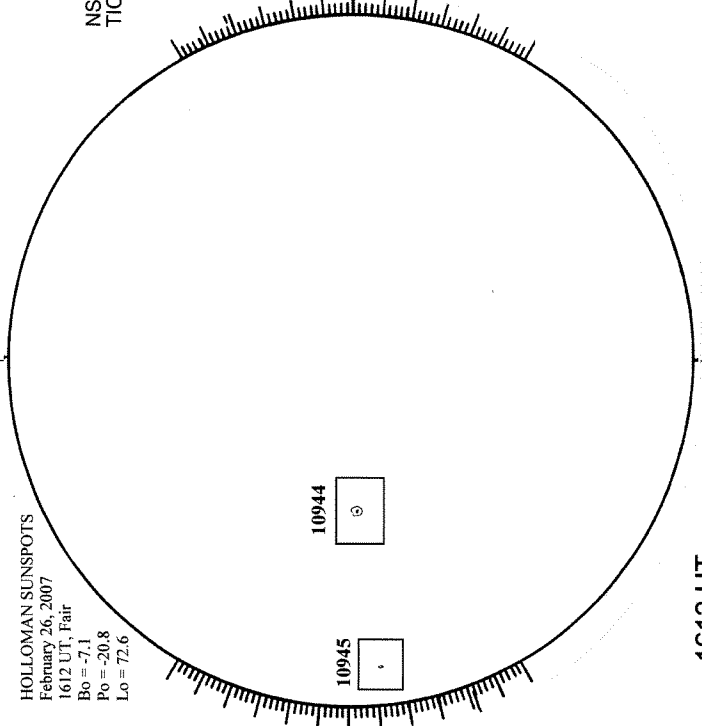
KANZELHOHE H-ALPHA



1105 UT

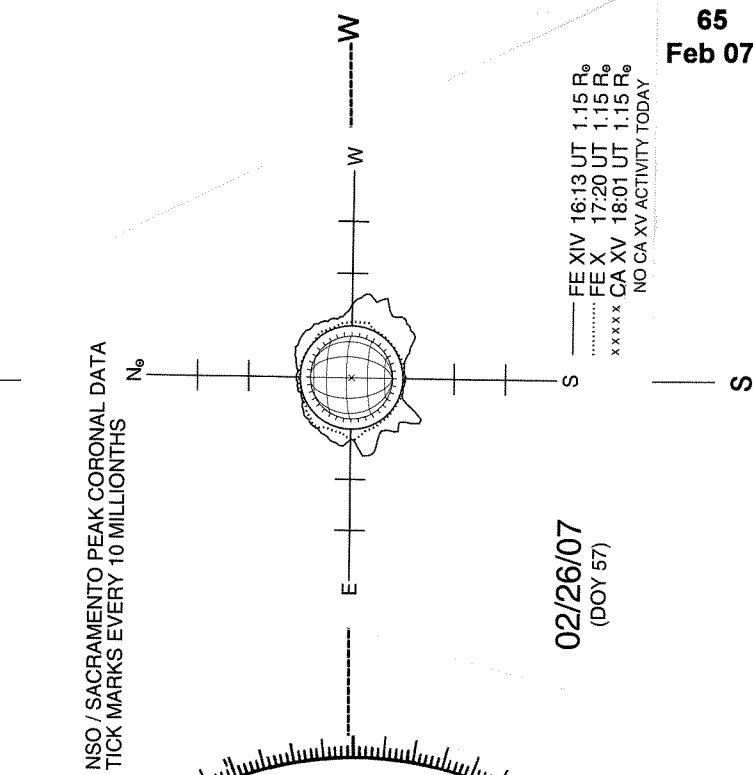
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 26, 2007
1612 UT, Fair
Bo = -7.1
Po = -20.8
Lo = 72.6



1612 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

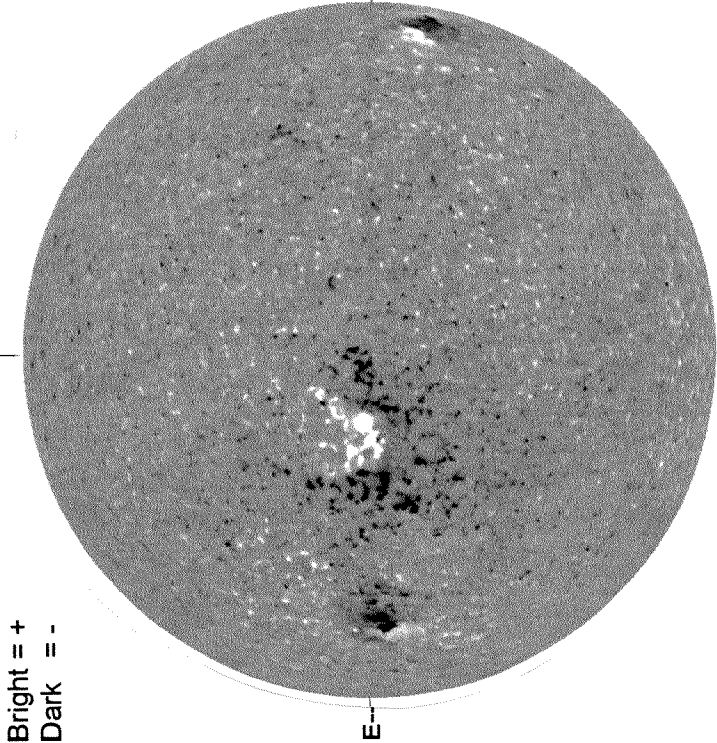


02/26/07
(DOY 57)

FE XIV 16:13 UT 1.15 R_o
FE X 17:20 UT 1.15 R_o
xxxxx CA XV 18:01 UT 1.15 R_o
NO CA XV ACTIVITY TODAY

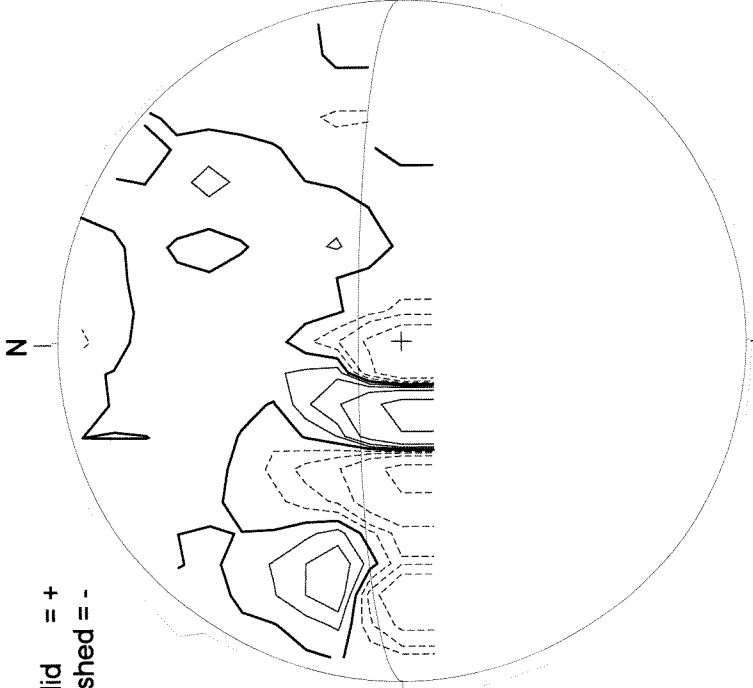
FEBRUARY 27, 2007 (P=-20.90, Bo=-7.18, Lo= 68.15)

KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm



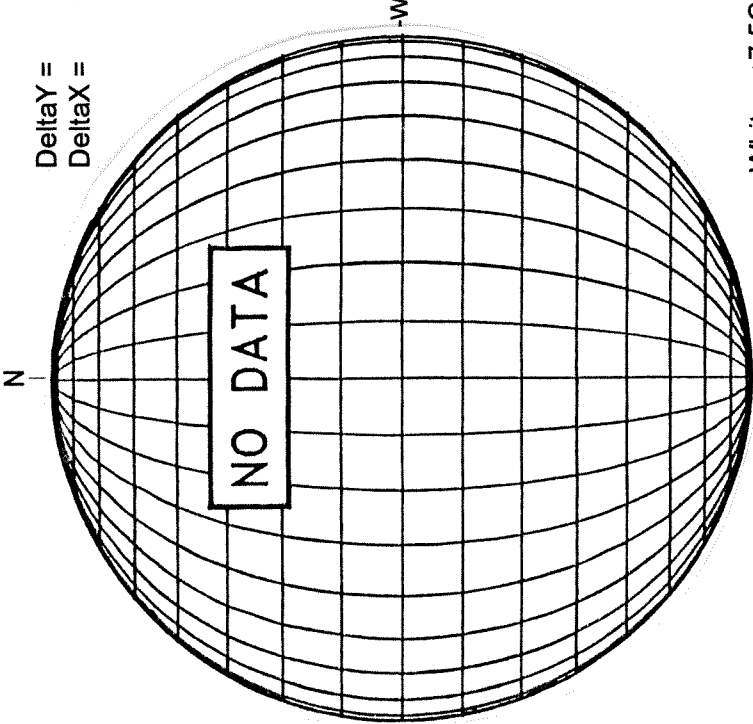
Solid = +
Dashed = -

STANFORD MAGNETOGRAM



1815 UT

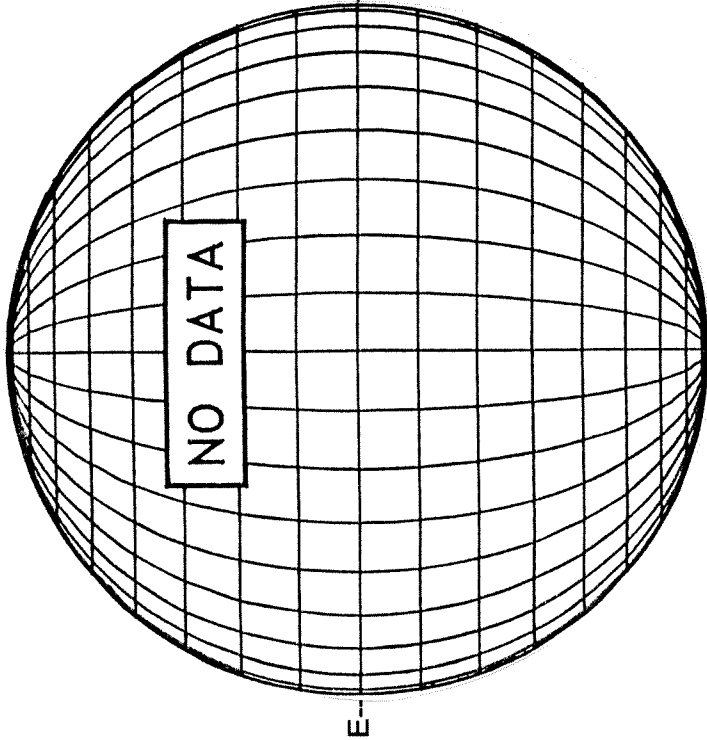
MT. WILSON MAGNETOGRAM



White= +7.5G
Black = -7.5G

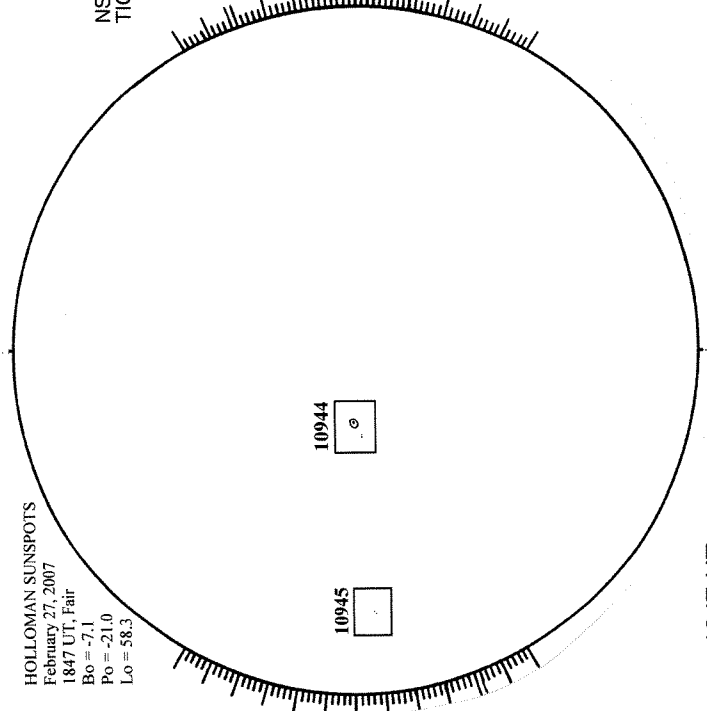
NO DATA

KANZELHOHE H-ALPHA



NO DATA

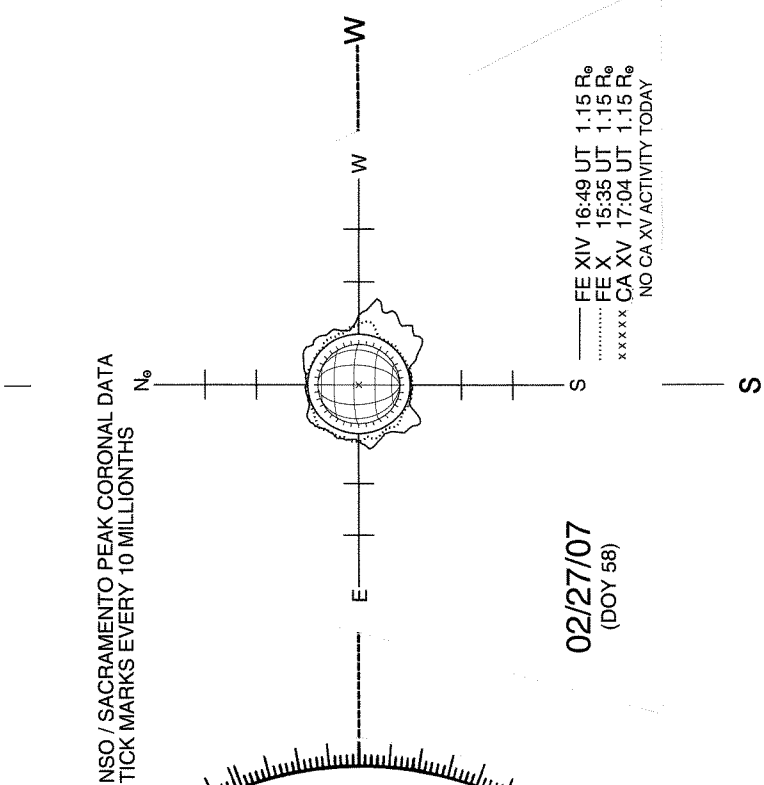
HOLLOMAN SUNSPOTS



HOLLOMAN SUNSPOTS
February 27, 2007
1847 UT, Fair
Bo = -7.1
Po = -21.0
Lo = 58.3

1847 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----



NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS

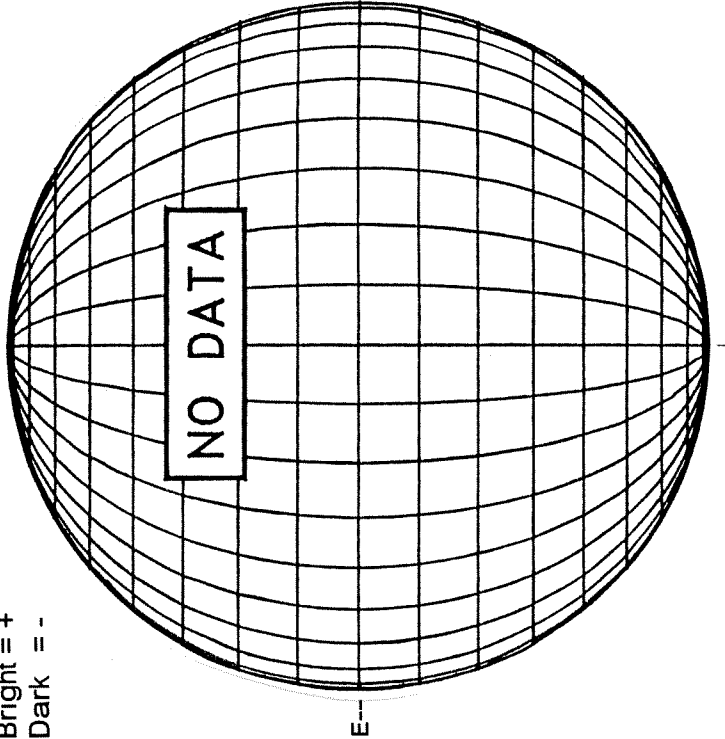
02/27/07
(DOY 58)

----- FE XIV 16:49 UT 1.15 R_o
..... FE X 15:36 UT 1.15 R_o
xxxxx CA XV 17:04 UT 1.15 R_o
NO CA XV ACTIVITY TODAY

FEBRUARY 28, 2007 (P=-21.17, Bo=-7.20, Lo= 54.98)

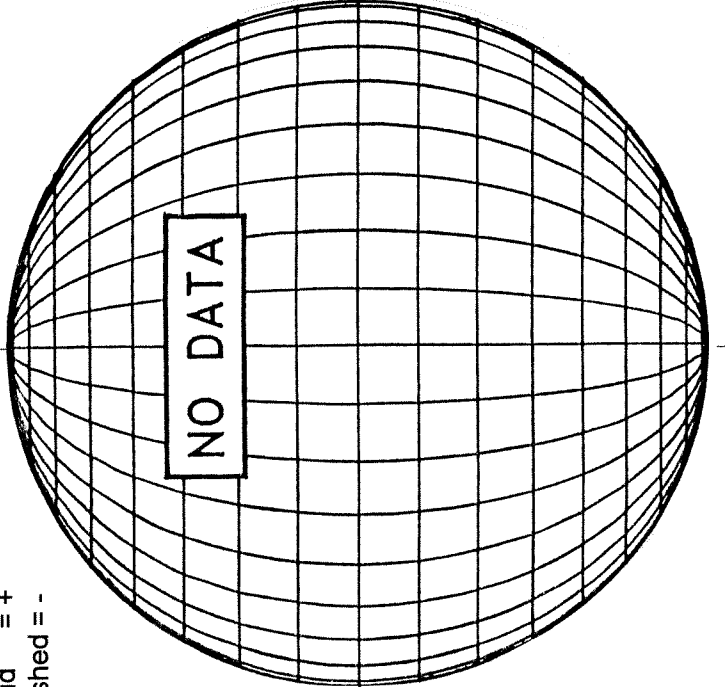
KITT PEAK MAGNETOGRAM--SOLIS
854.2 nm

Bright = +
Dark = -



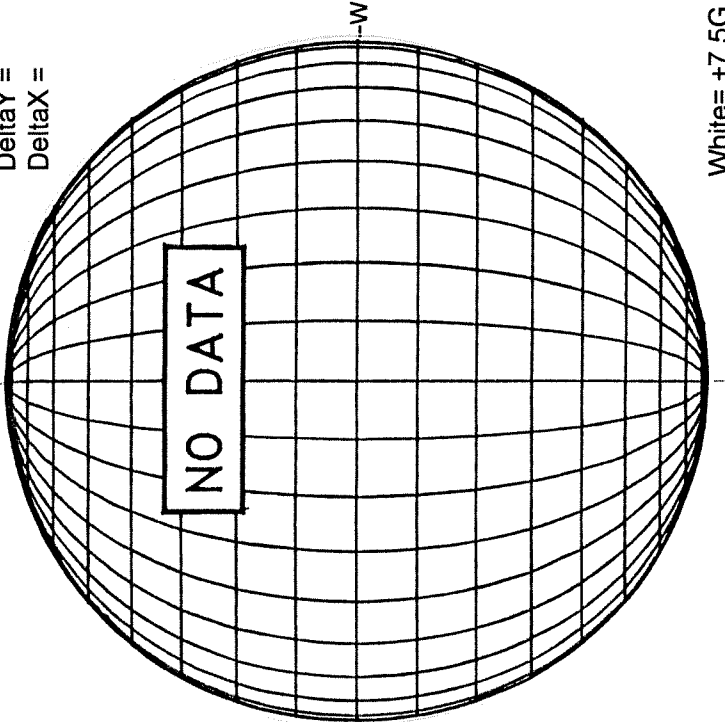
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



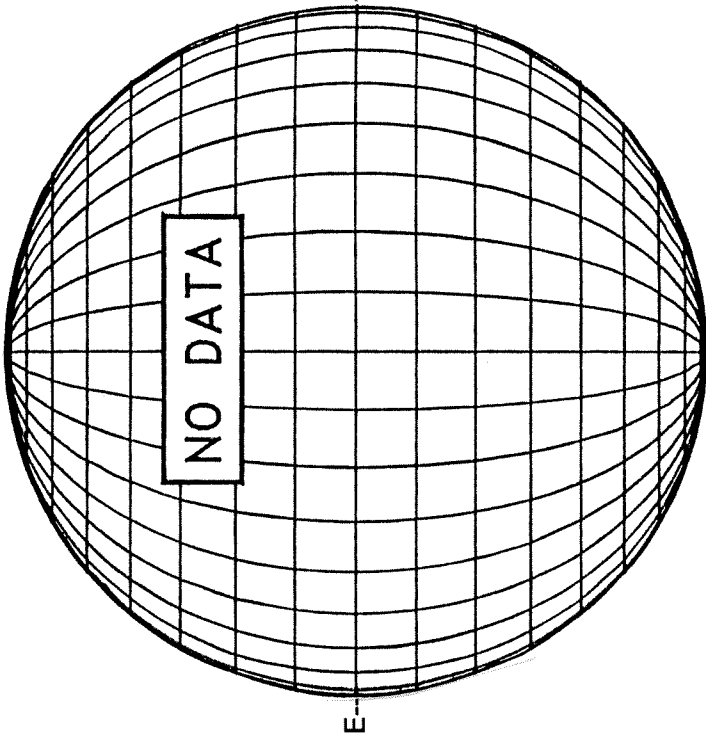
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =



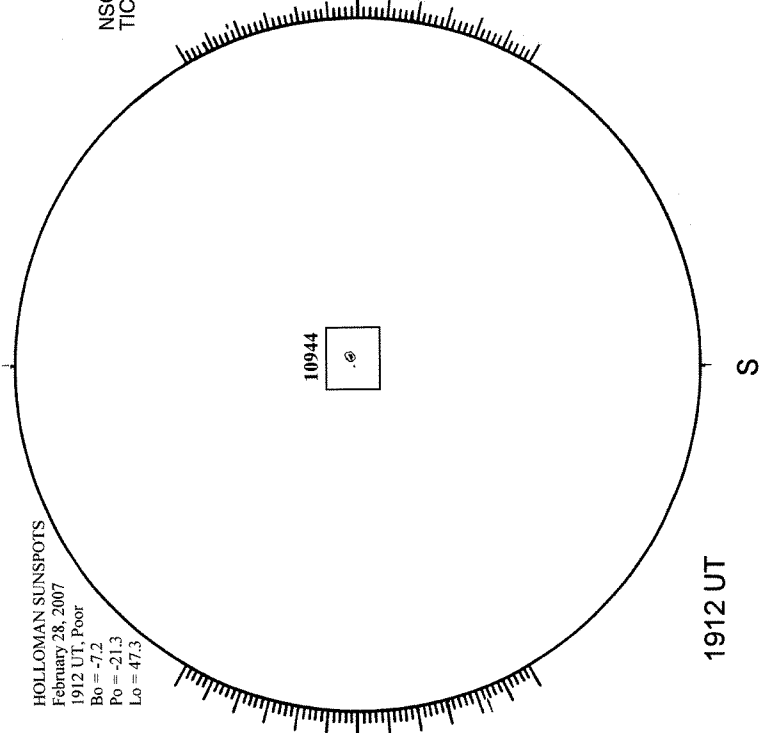
White= +7.5G
Black = -7.5G

KANZELHOHE H-ALPHA



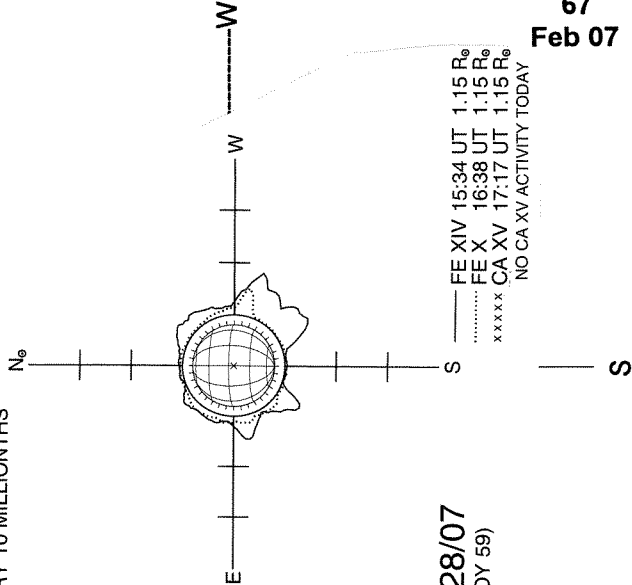
HOLLOMAN SUNSPOTS

HOLLOMAN SUNSPOTS
February 28, 2007
1912 UT, Poor
Bo = -7.2
Po = -21.3
Lo = 47.3



SACRAMENTO PEAK CORONA (1.15 Radii)----

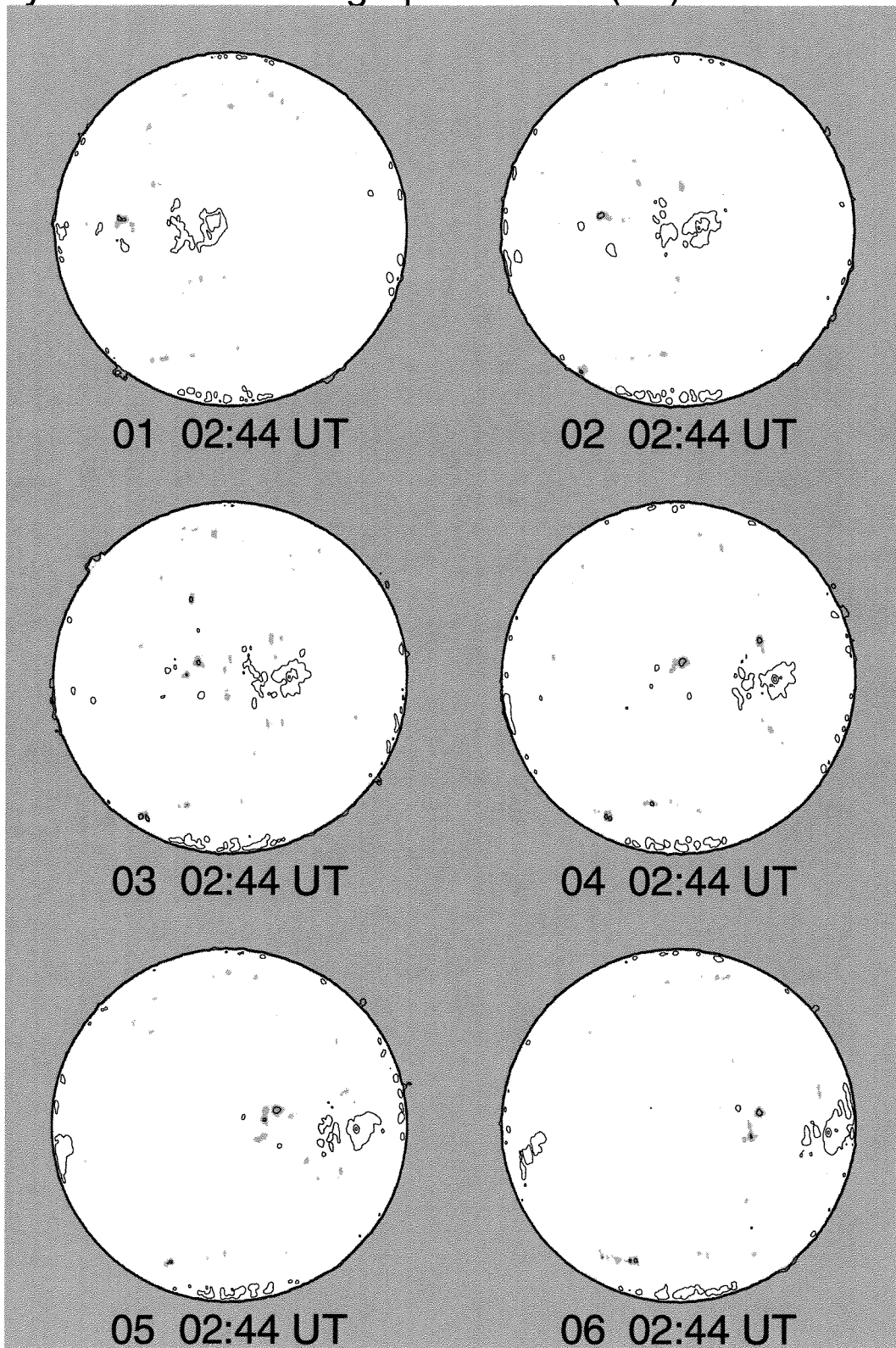
NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



02/28/07
(DOY 59)

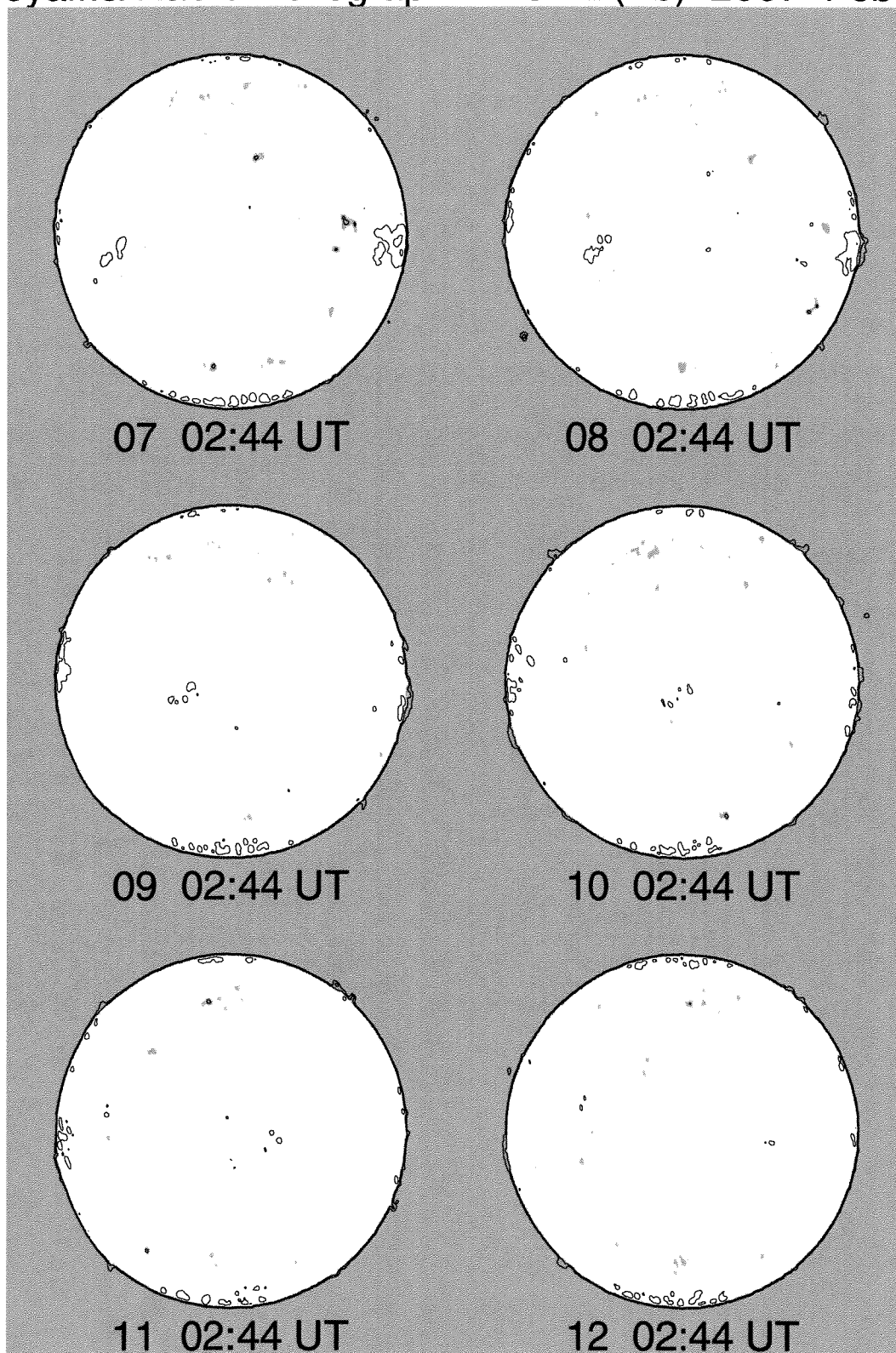
FE XIV 15:34 UT 1.15 R_☉
FE X 16:38 UT 1.15 R_☉
xxxxx CA XV 17:17 UT 1.15 R_☉
NO CA XV ACTIVITY TODAY

Nobeyama Radio Heliograph 17 GHz (Tb) 2007 February



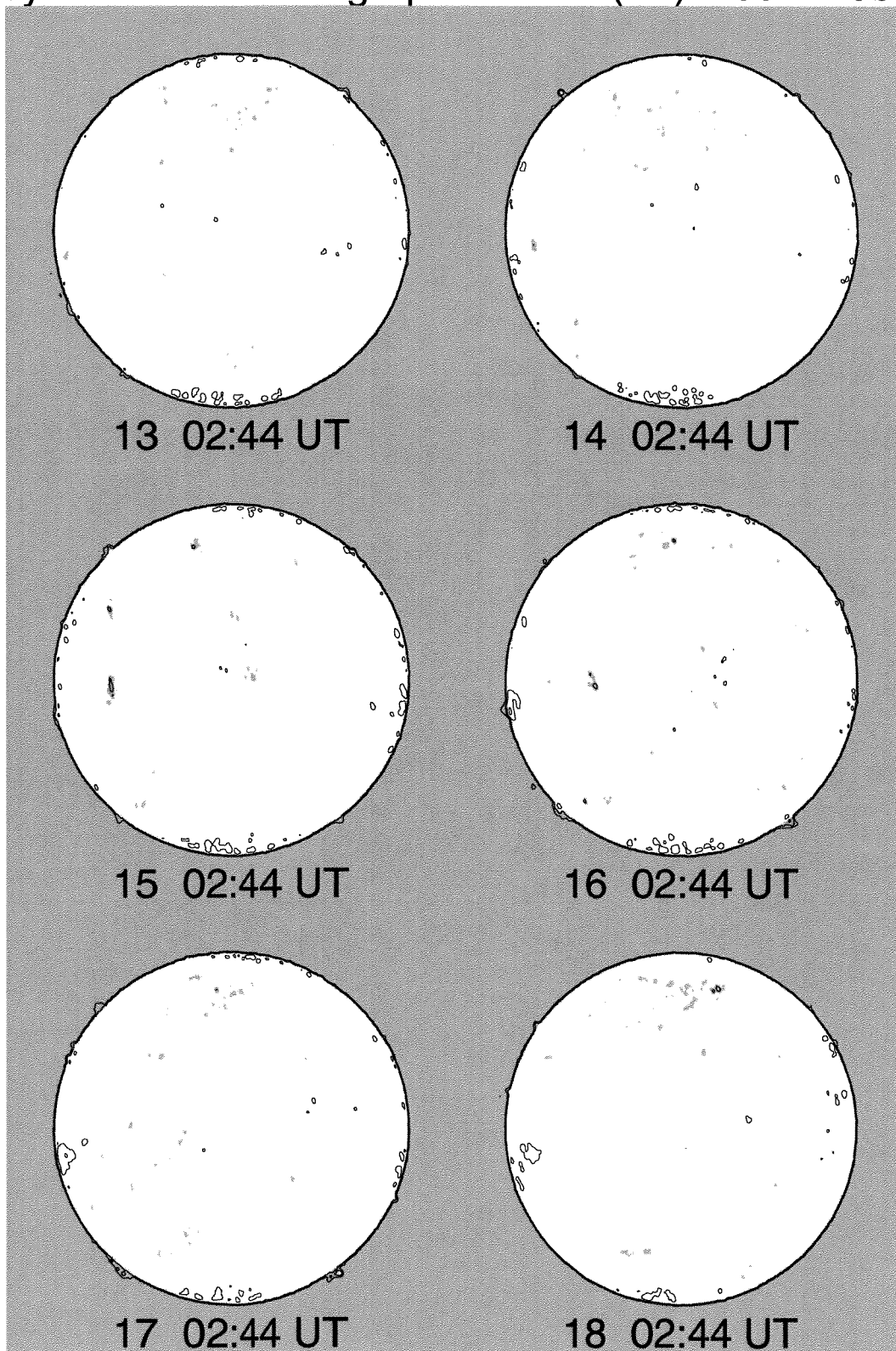
Contour Levels Tb=[5,8,12,20,50,100] x 10³ K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2007 February



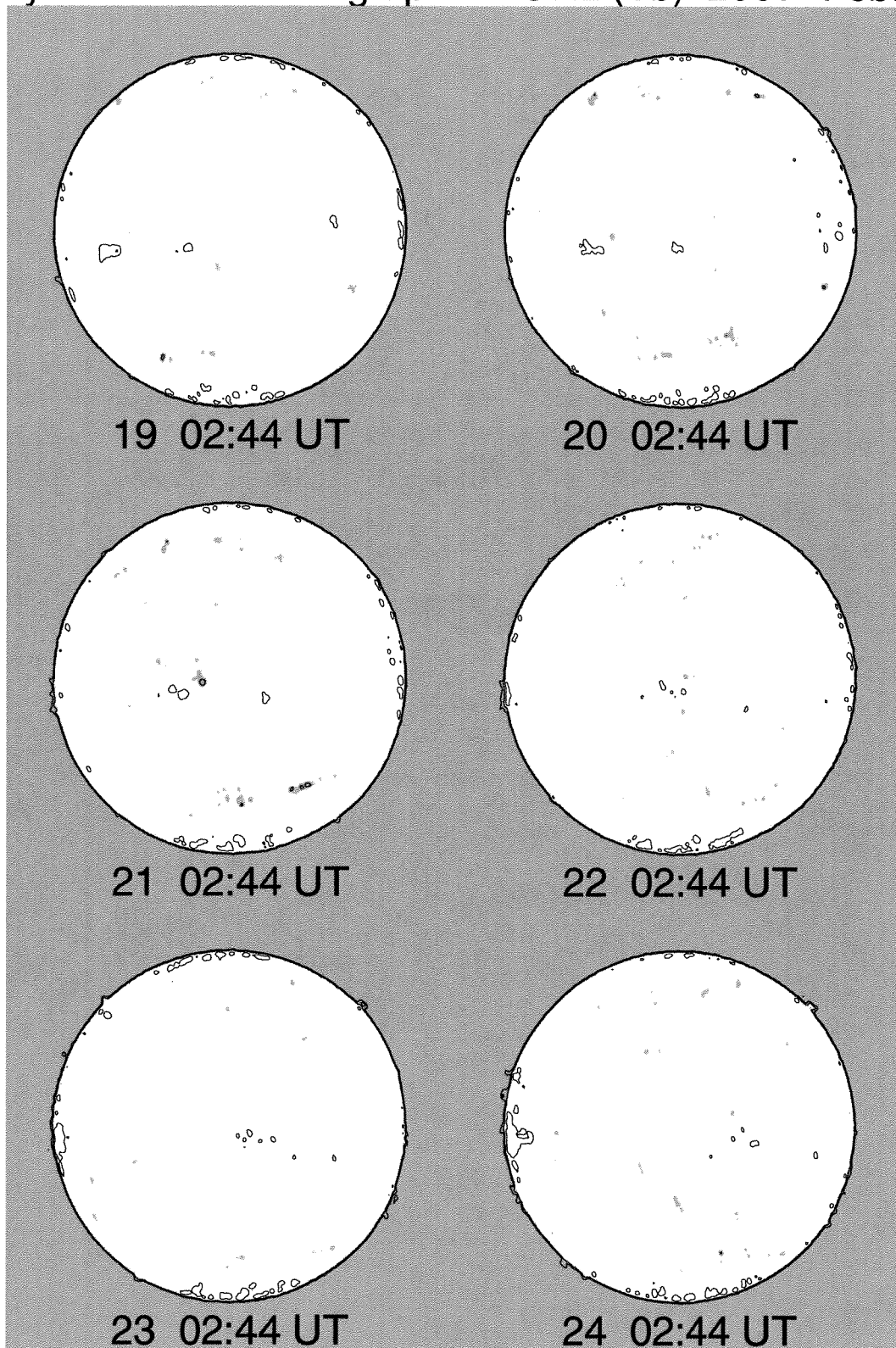
Contour Levels Tb=[5,8,12,20,50,100] x 10³ K
Grey level Tb ≤ 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2007 February



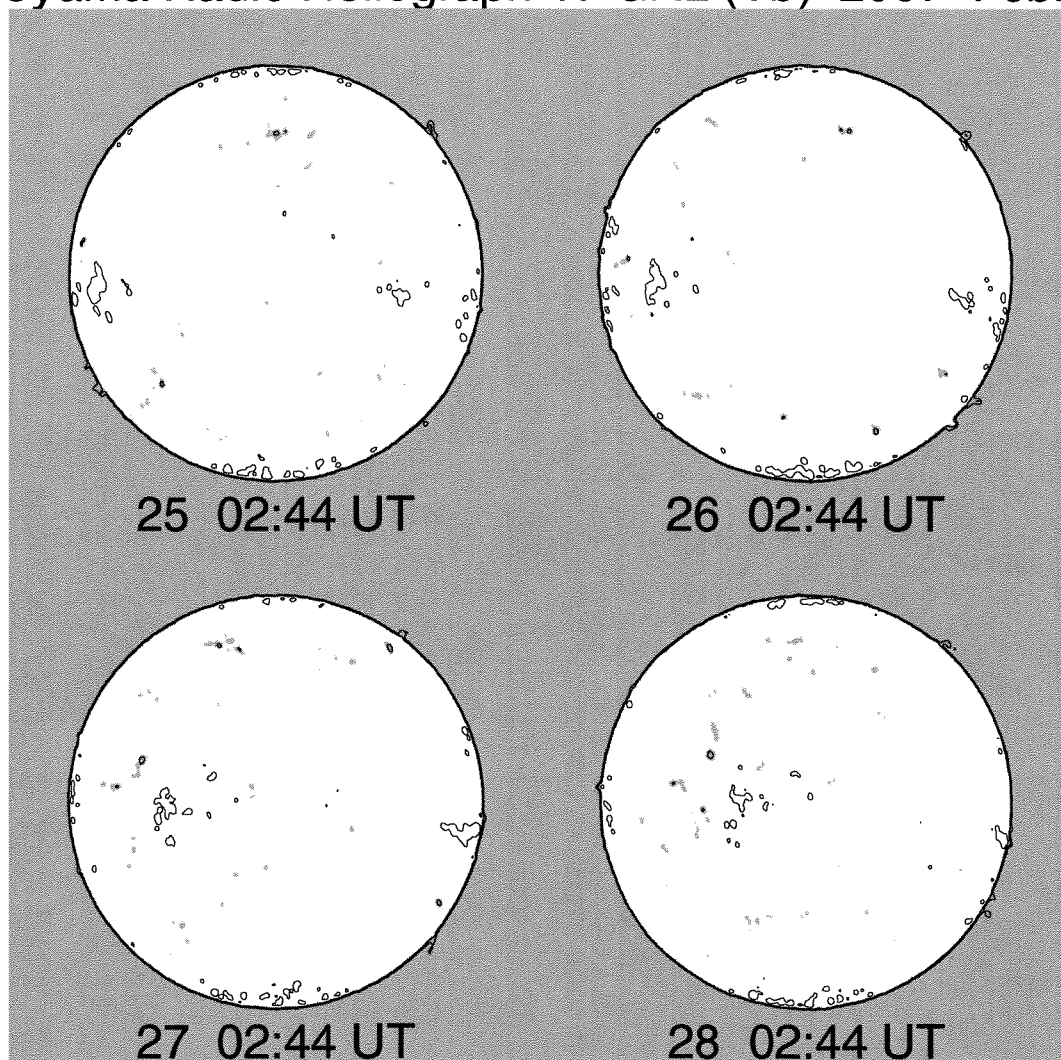
Contour Levels Tb=[5,8,12,20,50,100] x 10³ K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2007 February



Contour Levels Tb=[5,8,12,20,50,100] x 10³ K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2007 February



Contour Levels Tb=[5,8,12,20,50,100] x 10³ 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)

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FEBRUARY 2007

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10940		LEAR	01	26	0350	S06 E88	02	1.7		A	HAX	120	1	1	3
10940		TACH	01	26	0734	S06 E82	02	1.4			HXX	53	1	3	3
10940		KAND	01	26	0845	S04 E84	02	1.6			HA		1	8	2
10940		LEAR	01	27	0020	S03 E75	02	1.6		A	HAX	160	1	2	2
10940		TACH	01	27	0758	S06 E70	02	1.6			HSX	214	1	4	4
10940		SVTO	01	27	0922	S06 E71	02	1.7		A	HSX	160	1	4	3
10940		HOLL	01	27	1512	S06 E65	02	1.5		A	HHX	180	1	5	3
10940		LEAR	01	28	0023	S04 E63	02	1.7		A	HAX	180	2	3	2
10940		TACH	01	28	0505	S04 E58	02	1.5			HSX	195	1	2	4
10940		SVTO	01	28	0825	S05 E58	02	1.7		A	HSX	170	1	3	3
10940		HOLL	01	28	1501	S07 E52	02	1.5		B	DHO	180	3	7	3
10940		LEAR	01	29	0105	S04 E47	02	1.5		B	DAO	200	6	6	3
10940		TACH	01	29	0522	S04 E44	02	1.5			CSI	129	4	4	3
10940		KAND	01	29	0808	S05 E44	02	1.6			DAO		7	6	5
10940		SVTO	01	29	0925	S04 E43	02	1.6		B	DSO	170	5	5	3
10940		HOLL	01	29	1633	S08 E38	02	1.5		BG	DHC	340	7	8	3
10940		LEAR	01	30	0144	S03 E33	02	1.5		BG	DAI	280	17	7	3
10940		KAND	01	30	0830	S05 E29	02	1.5			DSO		6	5	4
10940		SVTO	01	30	0915	S05 E29	02	1.5		B	DHO	280	7	7	3
10940		LEAR	01	31	0105	S02 E23	02	1.8		BG	EKI	270	16	12	3
10940		TACH	01	31	0620	S04 E16	02	1.5			CSI	186	4	4	3
10940		SVTO	01	31	0915	S04 E15	02	1.5		B	DSO	250	7	7	3
10940		HOLL	01	31	1545	S05 E12	02	1.5		B	DHC	350	10	10	3
10940		LEAR	02	01	0055	S03 E06	02	1.5		B	DHI	300	11	6	2
10940		SVTO	02	01	1130	S04 E00	02	1.5		B	DSO	270	8	8	2
10940		HOLL	02	01	1817	S04 W05	02	1.4		B	DSO	220	12	7	2
10940		LEAR	02	02	0233	S03 W09	02	1.4		B	DHI	300	18	8	2
10940		SVTO	02	02	0835	S04 W11	02	1.5		B	DSO	190	6	8	3
10940		HOLL	02	02	1956	S05 W16	02	1.6		B	DHI	210	23	9	3
10940		LEAR	02	03	0103	S04 W19	02	1.6		B	DAI	220	17	8	3
10940		SVTO	02	03	0842	S05 W24	02	1.6		B	DSO	200	10	8	3
10940		HOLL	02	03	1635	S04 W27	02	1.7		BG	DHI	200	14	8	3
10940		LEAR	02	04	0036	S06 W32	02	1.6		B	CSO	190	9	8	3
10940		SVTO	02	04	0851	S04 W38	02	1.5		B	DSO	180	5	7	2
10940		HOLL	02	04	1549	S04 W40	02	1.7		B	DHO	200	7	5	3
10940		LEAR	02	05	0145	S06 W46	02	1.6		B	CAO	220	5	7	3
10940		SVTO	02	05	0950	S05 W53	02	1.4		B	CSO	160	3	5	2
10940		HOLL	02	05	1613	S04 W54	02	1.6		B	DHO	140	3	9	3
10940		LEAR	02	06	0742	S06 W62	02	1.7		B	CSO	150	2	5	3
10940		SVTO	02	06	0940	S04 W64	02	1.6		A	HSX	120	1	2	3
10940		HOLL	02	06	2025	S03 W65	02	2.0		B	DKO	160	3	11	3
10940		LEAR	02	07	0525	S06 W75	02	1.6		A	HSX	120	1	3	3
10940		HOLL	02	07	1819	S04 W80	02	1.8		A	HAX	120	1	1	4
10940		LEAR	02	08	0118	S06 W86	02	1.6		A	HSX	120	1	2	4
10940		KAND	01	26	0845	S04 E84	02	1.6			HA		1	8	2
10940		KAND	01	29	0808	S05 E44	02	1.6			DAO		7	6	5
10940		KAND	01	30	0830	S05 E29	02	1.5			DSO		6	5	4
10940		KAND	02	01	0750	S06 E04	02	1.6			DSO		13	7	4
10940		KAND	02	06	0740	S05 W63	02	1.6			HS		1	4	3
10940		TACH	02	07	0710	S06 W76	02	1.6			HSX	199	1	3	4
10940		KAND	02	07	0840	S06 W78	02	1.5			HS		1	3	1
10941		LEAR	01	29	0105	S07 E81	02	4.1		B	CAO	60	2	3	3
10941		TACH	01	29	0522	S08 E80	02	4.2			HSX	80	1	2	3
10941		KAND	01	29	0808	S08 E80	02	4.3			HS		1	4	5
10941		SVTO	01	29	0925	S08 E78	02	4.2		A	HSX	120	1	2	3
10941		HOLL	01	29	1633	S12 E71	02	4.0		A	HHX	160	1	7	3
10941		LEAR	01	30	0144	S05 E68	02	4.1		A	HSX	140	1	2	3
10941		KAND	01	30	0830	S09 E64	02	4.1			HS		1	2	4
10941		SVTO	01	30	0915	S08 E64	02	4.2		A	HSX	120	1	3	3
10941		LEAR	01	31	0105	S06 E55	02	4.2		A	HSX	120	1	2	3
10941		TACH	01	31	0620	S09 E51	02	4.1			HSX	110	1	2	3
10941		SVTO	01	31	0915	S08 E51	02	4.2		A	HSX	120	1	2	3
10941		HOLL	01	31	1545	S10 E46	02	4.1		A	HHX	210	1	3	3
10941		LEAR	02	01	0055	S06 E41	02	4.1		A	HSX	180	1	2	2
10941		SVTO	02	01	1130	S08 E35	02	4.1		A	HSX	120	1	2	2
10941		HOLL	02	01	1817	S07 E31	02	4.1		A	HSX	130	1	2	2
10941		LEAR	02	02	0233	S06 E28	02	4.2		A	HSX	160	1	2	2
10941		SVTO	02	02	0835	S07 E25	02	4.2		A	HSX	120	1	2	3

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(Ordered by Central Meridian Passage Date)

FEBRUARY 2007

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time			Lat	CMD	CMP		Max H	Mag Class	Spot Class	Corrected Area	Spot Count	Long. Extent	Qual
			Mo	Day	(UT)			Mo	Day				(10-6 Hemi)		(Deg)	
10941		HOLL	02	02	1956	S08	E19	02	4.2		A	HNO	150	2	3	3
10941		LEAR	02	03	0103	S07	E16	02	4.2		A	HAX	160	1	2	3
10941		SVTO	02	03	0842	S08	E12	02	4.3		A	HAX	110	1	2	3
10941		HOLL	02	03	1635	S07	E09	02	4.4		A	HHX	150	2	3	3
10941		LEAR	02	04	0036	S08	E02	02	4.2		A	HSX	100	1	2	3
10941		SVTO	02	04	0851	S07	W02	02	4.2		A	HSX	100	1	2	2
10941		HOLL	02	04	1549	S07	W05	02	4.3		A	HHX	150	1	2	3
10941		LEAR	02	05	0145	S07	W11	02	4.2		A	HSX	150	1	2	3
10941		SVTO	02	05	0950	S07	W15	02	4.3		A	HSX	100	1	2	2
10941		HOLL	02	05	1613	S07	W19	02	4.2		A	HHX	110	1	3	3
10941		LEAR	02	06	0742	S08	W28	02	4.2		A	HSX	160	1	2	3
10941		SVTO	02	06	0940	S07	W28	02	4.3		A	HHX	220	1	3	3
10941		HOLL	02	06	2025	S05	W35	02	4.2		A	HHX	150	1	4	3
10941		LEAR	02	07	0525	S07	W39	02	4.3		A	HSX	130	1	3	3
10941		HOLL	02	07	1819	S07	W48	02	4.2		A	HSX	110	2	2	4
10941		LEAR	02	08	0118	S07	W50	02	4.3		A	HSX	120	1	2	4
10941		SVTO	02	08	0937	S07	W56	02	4.2		A	HSX	120	1	3	3
10941		HOLL	02	08	1625	S07	W61	02	4.1		A	HSX	110	1	2	2
10941		LEAR	02	09	0015	S07	W63	02	4.3		A	HSX	120	1	2	3
10941		HOLL	02	09	1529	S06	W73	02	4.2		A	HHX	100	1	5	3
10941		LEAR	02	10	0020	S07	W76	02	4.3		A	HSX	120	1	2	3
10941		KAND	01	29	0808	S08	E80	02	4.3			HS		1	4	5
10941		KAND	01	30	0830	S09	E64	02	4.1			HS		1	2	4
10941		KAND	02	01	0750	S08	E39	02	4.2			HS		1	3	4
10941		KAND	02	06	0740	S07	W27	02	4.3			HS		1	2	3
10941		TACH	02	07	0710	S08	W40	02	4.3			HSX	143	1	2	4
10941		KAND	02	07	0840	S08	W42	02	4.2			HS		1	3	1
10941		KAND	02	08	0805	S08	W54	02	4.3			HS		1	3	4
10941		TACH	02	09	0725	S08	W67	02	4.3			HSX	227	1	3	3
10941		KAND	02	09	0904	S07	W66	02	4.4			HS		1	3	3
10941		KAND	02	10	1105	S07	W82	02	4.3			HS		1	2	3
10941A		LEAR	02	10	0020	S11	W03	02	9.8		A	AXX	10	1	1	3
10940		VORO	01	27	0139	S04	E74	02	01.7			HKX	194	1		3
10940		VORO	01	28	0100	S04	E61	02	01.6			HKX	252	1		3
10940		VORO	01	29	0053	S04	E46	02	01.5			HKX	278	5	2	3
10940		VORO	01	31	0113	S04	E19	02	01.5			HKX	309	8	3	3
10940		VORO	02	01	0313	S05	E05	02	01.5			HKX	192	6	3	2
10940		VORO	02	02	0122	S05	W08	02	01.4			CKI	331	10	5	3
10940		VORO	02	04	0100	S05	W34	02	01.5			CKI	250	5	5	3
10940		VORO	02	05	0045	S05	W47	02	01.4			CKO	251	2	4	3
10940		VORO	02	06	0022	S05	W60	02	01.4			CKO	225	2	5	3
10940		VORO	02	07	0045	S06	W74	02	01.4			HKX	245	3	5	3
10940		VORO	02	08	0058	S06	W85	02	01.6			HAX	116	1		3
10940A		VORO	02	07	0045	S05	W60	02	02.5			AXX	10	1		3
10940B		VORO	01	29	0053	S11	E76	02	03.8			AXX	6	1		3
10941		VORO	01	29	0053	S08	E80	02	04.1			HKX	184	1		3
10941		VORO	01	31	0113	S08	E54	02	04.2			HKX	190	1		3
10941		VORO	02	01	0313	S08	E40	02	04.2			HKX	195	1		2
10941		VORO	02	02	0122	S08	E29	02	04.2			HKX	212	1		3
10941		VORO	02	04	0100	S08	E03	02	04.2			HKX	191	1		3
10941		VORO	02	05	0045	S07	W11	02	04.2			HKX	180	1		3
10941		VORO	02	06	0022	S08	W23	02	04.3			HHX	206	1		3
10941		VORO	02	07	0045	S08	W36	02	04.3			HHX	212	1		3
10941		VORO	02	08	0058	S07	W50	02	04.3			HHX	220	1		3
10941		VORO	02	09	0031	S07	W63	02	04.3			HHX	208	1		3
10941		VORO	02	10	0342	S08	W77	02	04.3			HHX	163	1		2
10943		VORO	02	17	2355	S12	E15	02	20.1			BXO	4	2	2	3
10943		LEAR	02	19	0038	S12	E15	02	20.1		B	BXO	20	2	2	2
10943		HOLL	02	19	1914	S12	E06	02	20.2		B	CAO	70	4	4	3
10943		LEAR	02	20	0251	S12	E01	02	20.2		B	BXO	40	3	3	2
10943		KAND	02	20	0815	S12	W02	02	20.2			BXO		4	3	3
10943		TACH	02	20	0907	S13	W01	02	20.3			BRO	5	3	3	4
10942		VORO	02	16	2355	S11	E68	02	22.1			HAX	38	1		3

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

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day										
10942		VORO	02	18	0209	S11 E52	02 22.0			HAX	45	3		3
10942		VORO	02	18	2349	S11 E41	02 22.1			BXO	26	4	2	3
10942		VORO	02	20	0055	S11 E26	02 22.0			BXO	11	3	1	3
10942		KAND	02	20	0815	S10 E26	02 22.3			BXO		5	9	3
10942		VORO	02	21	0002	S11 E14	02 22.0			BXO	15	8	1	3
10942		KAND	02	21	0730	S10 E15	02 22.4			DRO		9	9	4
10942		KAND	02	22	0838	S10 W05	02 22.0			AX		1	1	4
10942		HOLL	02	16	1841	S13 E71	02 22.1		B	CRO	60	2	3	3
10942		LEAR	02	17	0400	S11 E65	02 22.0		A	AXX	20	1	1	2
10942		SVTO	02	17	1145	S10 E62	02 22.1		A	AXX		1		3
10942		HOLL	02	17	1536	S12 E58	02 22.0		A	HSX	30	1	2	3
10942		LEAR	02	18	0044	S11 E53	02 22.0		A	AXX	30	1	1	2
10942		HOLL	02	18	1921	S12 E43	02 22.0		B	CSO	50	2	3	2
10942		LEAR	02	19	0038	S11 E41	02 22.1		B	BXO	50	4	2	2
10942		HOLL	02	19	1914	S12 E30	02 22.1		B	CSO	60	3	2	3
10942		LEAR	02	20	0251	S11 E26	02 22.1		B	BXO	40	4	2	2
10942		TACH	02	20	0907	S11 E27	02 22.4			BRO	6	3	7	4
10942		HOLL	02	20	2306	S12 E24	02 22.8		B	CSO	70	5	9	2
10942		LEAR	02	21	0455	S11 E16	02 22.4		B	CRO	20	4	9	3
10942		SVTO	02	21	0925	S12 E08	02 22.0		B	CSO	20	3	3	2
10942		HOLL	02	21	1601	S11 E10	02 22.4		B	DSO	80	4	9	3
10942		LEAR	02	22	0048	S10 E05	02 22.4		B	BXO	20	4	8	3
10942		HOLL	02	22	2105	S11 W11	02 22.0		A	AXX	10	1	1	3
10942		LEAR	02	23	0351	S11 W15	02 22.0		A	AXX	10	1	1	3
10942A		VORO	02	18	0209	S10 E62	02 22.7			AXX	9	3		3
10944A		HOLL	03	02	1620	S03 W67	02 25.8		A	AXX	20	1	1	3
10944		VORO	02	23	0023	S06 E75	02 28.7			HAX	122	1		3
10944		VORO	02	24	0035	S06 E61	02 28.7			HKX	105	1		3
10944		VORO	02	25	0111	S06 E48	02 28.7			HKX	133	1		3
10944		VORO	02	27	0000	S06 E22	02 28.7			HAX	112	1		3
10944		VORO	02	28	0002	S06 E09	02 28.7			HAX	124	1		3
10944		VORO	03	01	0000	S06 W03	02 28.8			HAX	115	0	2	3
10944		VORO	03	06	0425	S06 W03	02 28.8			HAX	115	0	2	3
10944		HOLL	02	22	2105	S10 E75	02 28.5		A	HHX	120	1	3	3
10944		LEAR	02	23	0351	S05 E71	02 28.5		A	HSX	120	1	3	3
10944		SVTO	02	23	0759	S07 E71	02 28.6		A	HSX	100	1	4	2
10944		LEAR	02	24	0100	S05 E61	02 28.6		A	HAX	80	1	2	3
10944		SVTO	02	24	0933	S08 E57	02 28.7		A	HSX	100	1	4	2
10944		HOLL	02	24	1524	S10 E53	02 28.6		A	HSX	100	1	2	2
10944		LEAR	02	25	0222	S08 E48	02 28.7		A	HAX	120	1	3	3
10944		KAND	02	25	0920	S06 E44	02 28.7			HS		1	2	3
10944		SVTO	02	25	1020	S08 E43	02 28.6		A	HSX	100	1	3	3
10944		HOLL	02	25	1810	S08 E42	02 28.9		A	HSX	110	3	3	3
10944		LEAR	02	26	0917	S06 E30	02 28.6		A	HSX	110	1	2	1
10944		HOLL	02	26	1612	S07 E26	02 28.6		A	HKX	110	1	3	3
10944		LEAR	02	27	0228	S06 E22	02 28.7		A	HSX	100	1	2	4
10944		TACH	02	27	0947	S08 E17	02 28.7			CSO	59	3	4	3
10944		HOLL	02	27	1847	S06 E14	02 28.8		B	CSO	130	3	5	3
10944		LEAR	02	28	0126	S06 E08	02 28.6		A	HSX	120	1	2	3
10944		TACH	02	28	0520	S08 E07	02 28.7			CSO	71	2	3	3
10944		SVTO	02	28	0848	S06 E04	02 28.7		A	HSX	80	1	2	2
10944		HOLL	02	28	1912	S07 W01	02 28.7		A	HSX	80	2	3	2
10944		LEAR	03	01	0107	S06 W04	02 28.7		A	HSX	110	2	3	3
10944		TACH	03	01	0651	S08 W08	02 28.7			HSX	53	1	1	4
10944		SVTO	03	01	0825	S06 W09	02 28.7		A	HSX	60	1	2	3
10944		HOLL	03	01	1618	S05 W13	02 28.7		A	HSX	90	1	2	3
10944		LEAR	03	02	0225	S06 W18	02 28.7		A	HSX	100	1	2	2
10944		SVTO	03	02	0918	S06 W23	02 28.7		A	HSX	70	1	2	3
10944		KAND	03	02	1005	S05 W23	02 28.7			HS		1	2	1
10944		HOLL	03	02	1620	S04 W27	02 28.7		A	HHX	110	1	3	3
10944		LEAR	03	03	0110	S07 W31	02 28.7		A	HAX	90	1	1	3
10944		SVTO	03	03	0655	S06 W35	02 28.7		A	HSX	70	1	2	2
10944		HOLL	03	03	1808	S04 W40	02 28.8		A	HHX	120	1	3	2
10944		LEAR	03	04	0135	S06 W45	02 28.7		A	HAX	50	1	2	2
10944		SVTO	03	04	0715	S05 W48	02 28.7		A	HSX	60	1	2	2
10944		HOLL	03	04	2118	S04 W56	02 28.7		A	HHX	110	2	3	3

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

FEBRUARY 2007

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time			Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10944		LEAR	03	05	0116	S05	W57	02	28.8		B	DAO	90	2	3	3
10944		TACH	03	05	0655	S05	W61	02	28.7			AR	20	2	2	3
10944		SVTO	03	05	0805	S05	W62	02	28.7		A	HSX	60	2	2	3
10944		HOLL	03	05	1528	S04	W68	02	28.6		A	HAX	40	2	2	4
10944		LEAR	03	06	0141	S07	W72	02	28.7		A	AXX	20	1	1	3
10944		KAND	02	25	0920	S06	E44	02	28.7			HS		1	2	3
10944		KAND	02	27	0903	S05	E19	02	28.8			DSO		4	3	3
10944		KAND	02	27	0903	S05	E19	02	28.8			DSO		4	3	3
10944		TACH	03	02	0746	S07	W20	02	28.8			HSX	59	1	2	4
10944		TACH	03	04	0509	S06	W44	02	28.9			HSX	70	1	2	4

Stations reporting:

HOLL = Holloman
KAND = Kandilli

LEAR = Learmonth
PALE = Palehua

SVTO = San Vito
TACH = Tashkent

VORO = Voroshilov

**SUDDEN IONOSPHERIC DISTURBANCES
FEBRUARY 2007**

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Feb 07

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type							X-ray Class	NOAA Region
						SWF	SEA	SPA	LF-		Flare (UT)			
									SPA	SES				

NO EVENTS REPORTED

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

Spectral Observations

FEBRUARY 2007

OBSERVATION			Sta	Start (UT)	End (UT)	EVENT		Int (1-3)	FREQUENCY		Remarks
Day	Start (UT)	End (UT)				Spectral Class	Event Remarks		Lower (MHz)	Upper (MHz)	
01	0000	0800	CULG								
	0000	0808	HIRA								
	0825	1535	BLN								
	0826	1432	ONDR								
			SGMR	1631.0	1632.0	III		1	30	180	
	2000	2400	CULG								
	2132	2400	HIRA								
02			LEAR	0020.0	0022.0	III		1	25	90	
			PALE	0020.0	0021.0	III		1	25	54	
	0000	0800	CULG	0021.0	0022.0	III	G	1	18	300	
	0000	0809	HIRA	0021.0	0022.5	III	G	1	25X	310	
			LEAR	0056.0	0101.0	III		1	25	98	
			CULG	0058.0	0135.0	III	N	1	20	90	
			HIRA	0059.0	0059.5	III	B	1	25X	50	
			LEAR	0103.0	0208.0	III	N	1	25	90	
			PALE	0126.0	0127.0	III		1	25	47	
			HIRA	0127.0	0127.5	III	B	1	30	210	
	0825	1435	ONDR								
	0825	1535	BLN								
	2000	2400	CULG								
	2132	2400	HIRA								
03	0000	0800	CULG								
	0000	0811	HIRA								
	0825	1437	ONDR								
	0825	1540	BLN								
	2000	2400	CULG								
	2131	2400	HIRA								
04	0000	0800	CULG								
	0000	0812	HIRA								
	0822	1436	ONDR								
	0825	1540	BLN								
	2000	2400	CULG								
	2130	2400	HIRA								
05	0000	0800	CULG								
	0000	0813	HIRA								
	0822	1441	ONDR								
	0825	1540	BLN	1005.0	1005.2	III	G,RS	1	300	800	
			SGMR	1422.0	1423.0	III		1	30	145	
			SVTO	1422.0	1423.0	III		2	25	144	
	2000	2400	CULG	2121.0	2306.0	III	N	1	18	80	
			PALE	2125.0	0242.0	III	N	1	25	60	
			LEAR	2305.0	2306.0	III		1	25	53	
	2129	2400	HIRA	2305.5	2306.0	III	B	1	25X	50	
06			LEAR	0042.0	0042.0	III		1	25	49	
			LEAR	0107.0	0109.0	III		1	25	55	
			LEAR	0120.0	0128.0	III		1	25	69	
	0000	0814	HIRA	0121.0	0125.5	III	G	1	25X	70	
	0000	0800	CULG	0125.0	0125.0	III	B	1	20	80	
			HIRA	0205.0	0205.5	III	B	1	25X	50	
			LEAR	0205.0	0205.0	III		1	25	56	
			LEAR	0356.0	0356.0	III		1	25	51	
			LEAR	0403.0	0403.0	III		1	25	54	
			LEAR	0633.0	1051.0	III	N	1	25U	89U	
			CULG	0727.0	0728.0	III	G	1	20	70	
			HIRA	0727.0	0728.0	III	G	1	25X	70	
			SVTO	0728.0	0728.0	III		1	25	44	
	0810	1540	BLN								
			SVTO	0810.0	0810.0	III		1	25	40	
			SVTO	0818.0	0821.0	III		1	25	41	
	0821	1443	ONDR								
			SVTO	0943.0	0944.0	III		1	25	35	
			SVTO	0953.0	0955.0	III		1	25	67	
			SVTO	1047.0	1047.0	III		1	25	38	
			SVTO	1219.0	1219.0	III		1	25	38	

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

Spectral Observations

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Feb 07

FEBRUARY 2007

OBSERVATION			Sta	Start (UT)	End (UT)	EVENT		Int (1-3)	FREQUENCY		Remarks
Day	Start (UT)	End (UT)				Spectral Class	Event Remarks		Lower (MHz)	Upper (MHz)	
06			SVTO	1232.0	1243.0	III	N	1	25	65	
			SVTO	1334.0	1335.0	III		1	25	35	
			SVTO	1350.0	1350.0	III		1	25	41	
			SGMR	1357.0	1359.0	III		1	30	54	
			SVTO	1357.0	1359.0	III		2	25	66	
			SGMR	1458.0	1458.0	III		1	30	46	
			SVTO	1458.0	1458.0	III		1	25	43	
			PALE	2004.0	2004.0	III		1	25	42	
			SGMR	2004.0	2004.0	III		1	30	38	
	2000	2400	CULG	2004.0	2004.0	III	B	1	30	75	
			CULG	2053.0	2053.0	III	B	1	20	80	
	2129	2400	HIRA								
07			LEAR	0148.0	0152.0	III		1	25	64	
	0000	0800	CULG	0149.0	0150.0	III	G	1	25	60	
			LEAR	0223.0	0224.0	III		1	25	65	
			CULG	0224.0	0224.0	III	G	1	20	90	
	0000	0815	HIRA	0224.0	0224.5	III	B	1	25X	50	
			LEAR	0356.0	0357.0	III		1	25	62	
			CULG	0357.0	0357.0	III	B	1	25	80	
			LEAR	0636.0	0639.0	III		1	25	53	
			LEAR	0636.0	0809.0	CONT		1	89	180	
			SVTO	0637.0	0922.0	CONT		1	25	180	
			LEAR	0653.0	0653.0	III		1	25	63	
			LEAR	0731.0	0732.0	III		1	25	94	
			HIRA	0731.5	0732.0	III	B	1	25X	100	
			CULG	0737.0	0738.0	III	G	1	20	170	
	0810	1540	BLEN								
			LEAR	0819.0	0820.0	III		1	25	81	
	0821	1445	ONDR								
			SVTO	1011.0	1550.0	CONT		1	28	180	
			LEAR	2252.0	2252.0	III		1	25	75	
			PALE	2252.0	2252.0	III		1	25	49	
	2000	2400	CULG	2252.0	2255.0	III	G	1	20	90	
	2128	2400	HIRA	2252.0	2252.0	III	B	1	25X	70	
08	0000	0800	CULG								
	0000	0816	HIRA								
	0810	1540	BLEN								
	0821	1447	ONDR								
	2000	2400	CULG								
	2127	2400	HIRA								
09	0000	0800	CULG								
	0000	0817	HIRA								
	0810	1540	BLEN								
	0821	1449	ONDR								
	2000	2400	CULG								
	2126	2400	HIRA								
10	0000	0800	CULG								
	0000	0818	HIRA								
	0800	1540	BLEN								
	0822	1452	ONDR								
	2000	2400	CULG								
	2125	2400	HIRA								
11	0000	0800	CULG								
	0000	0819	HIRA								
	0800	1540	BLEN								
	0818	1454	ONDR								
	2000	2400	CULG								
	2124	2400	HIRA								
12	0000	0800	CULG								
	0000	0820	HIRA								
	0800	1540	BLEN								
	0818	1456	ONDR								
	2000	2400	CULG								

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

FEBRUARY 2007

OBSERVATION			Sta	Start (UT)	End (UT)	EVENT		Int (1-3)	FREQUENCY		Remarks
Day	Start (UT)	End (UT)				Spectral Class	Event Remarks		Lower (MHz)	Upper (MHz)	
12	2123	2400	HIRA								
13	0000	0800	CULG								
	0000	0821	HIRA								
	0800	1540	BLEN								
	0818	1458	ONDR								
	2000	2400	CULG								
	2122	2400	HIRA								
14	0000	0800	CULG								
	0000	0822	HIRA								
	0745	1545	BLEN								
	0813	1500	ONDR								
	2000	2400	CULG								
	2121	2400	HIRA								
15	0000	0800	CULG								
	0000	0823	HIRA								
	0745	1545	BLEN								
	0814	1503	ONDR								
	2000	2400	CULG								
	2119	2400	HIRA								
16			LEAR	0152.0	0154.0	III		1	25	110	
			PALE	0153.0	0154.0	III		1	25	63	
	0000	0800	CULG	0153.0	0154.0	III	G	1	18	100	
	0000	0825	HIRA	0153.0	0154.0	III	G	1	25X	80	
			HIRA	0154.5	0155.0	III	B	1	90	280	
			CULG	0155.0	0155.0	III	B	1	180	280	
	0745	1545	BLEN								
	0822	1513	ONDR								
	2000	2400	CULG								
	2118	2400	HIRA								
17	0000	0800	CULG								
	0000	0826	HIRA								
	0745	1545	BLEN								
	0813	1506	ONDR								
	2000	2400	CULG								
	2117	2400	HIRA								
18	0000	0800	CULG								
	0000	0827	HIRA								
	0735	1545	BLEN								
	0809	1508	ONDR								
			PALE	1931.0	1932.0	III		1	25	180	
			SGMR	1931.0	1932.0	III		1	30	180	
	2000	2400	CULG								
	2116	2400	HIRA								
19	0000	0800	CULG	0007.0	0010.0	III	G	1	18	150	
			LEAR	0008.0	0009.0	III		1	25	124	
			PALE	0008.0	0008.0	III		1	25	89	
	0000	0828	HIRA	0008.0	0010.0	III	G	1	25X	110	
			CULG	0018.0	0021.0	II	FN	1	30	45	
			CULG	0018.0	0024.0	II	SH	1	57	90	FLA ESS 500
	0730	1550	BLEN								
	0809	1510	ONDR								
	2105	2400	CULG								
	2115	2400	HIRA								
20	0000	0829	HIRA								
	0000	0800	CULG	0003.0	0005.0	III	G	1	20	170	
	0730	1550	BLEN								
	0809	1513	ONDR								
	2000	2400	CULG								
	2114	2400	HIRA								
21	0000	0829	HIRA								

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

Spectral Observations

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Feb 07

FEBRUARY 2007

Day	OBSERVATION		Sta	Start (UT)	End (UT)	EVENT		Int (1-3)	FREQUENCY		Remarks
	Start (UT)	End (UT)				Spectral Class	Event Remarks		Lower (MHz)	Upper (MHz)	
21			LEAR	0712.0	0713.0	III		1	29	41	
			SVTO	0712.0	0713.0	III		1	25	41	
	0110	0800	CULG	0713.0	0713.0	III	B	1	20	50	
	0730	1550	BLEN								
	0809	1515	ONDR								
	2000	2400	CULG								
	2113	2400	HIRA								
22	0000	0830	HIRA	0144.5	0145.0	III	B	1	25X	50	
	0000	0800	CULG	0145.0	0145.0	III	B	1	20	45	
	0730	1550	BLEN								
	0805	1517	ONDR								
	2000	2400	CULG								
	2112	2400	HIRA								
23	0000	0800	CULG								
	0000	0831	HIRA								
	0730	1550	BLEN								
	0805	1519	ONDR								
	2000	2400	CULG								
	2111	2400	HIRA								
24	0000	0800	CULG								
	0000	0832	HIRA								
	0805	1521	ONDR								
	1200	1555	BLEN								
	2000	2400	CULG								
	2109	2400	HIRA								
25	0000	0800	CULG								
	0000	0833	HIRA								
	0725	1555	BLEN								
	0801	1523	ONDR								
	2000	2400	CULG								
	2108	2400	HIRA								
26	0000	0800	CULG								
	0000	0834	HIRA								
	0720	1600	BLEN								
	0800	1524	ONDR								
	2000	2400	CULG								
	2106	2400	HIRA								
27	0000	0800	CULG								
	0000	0834	HIRA								
	0720	1600	BLEN								
	0800	1526	ONDR								
	2000	2400	CULG								
	2105	2400	HIRA								
28	0000	0800	CULG								
	0000	0835	HIRA								
	0715	1600	BLEN								
	0756	1529	ONDR								
	2000	2400	CULG								
	2104	2400	HIRA								

SOLAR RADIO NOISE STORM AT 150.9 MHZ
FROM NANÇAY RADIOHELIOGRAPH
FEBRUARY 2007

	HELIOGRAPHICS POSITIONS MEAN VALUES ¹		IMP ²	OBSERVING TIME ³	
	E-W	S-N		START(UT)	END(UT)
06/02/07*	+0.14	-0.03	I	8H34 E	15H35 D
06/02/07*	+0.72	-0.33	I	8H34 E	15H35 D
07/02/07*	+0.88	-0.50	II	8H34 E	15H35 D
08/02/07*	+1.14	-0.60	I	8H34 E	15H35 D
09/02/07*	+1.23	-0.38	I	8H39 E	15H35 D
19/02/07	-0.53	-0.14	I	8H40 E	12H10
20/02/07*	-0.42	+0.03	I	8H34 E	15H34 D
21/02/07*	-0.23	-0.03	I	8H39 E	15H35 D

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 NANÇAY OBSERVATIONS

SOLAR RADIO NOISE STORM AT 327 MHZ

FROM NANÇAY RADIOHELIOGRAPH

FEBRUARY 2007

	HELIOGRAPHICS POSITIONS MEAN VALUES ¹		IMP ²	OBSERVING TIME ³	
DAY	E-W	S-N		START(UT)	END(UT)
07/02/07*	+0.80	-0.10	I	8H34 E	15H35 D
07/02/07*	+0.81	-0.48	I	8H34 E	15H35 D
08/02/07*	+0.99	-0.13	I	8H34 E	15H35 D
09/02/07*	+0.93	-0.40	I	8H39 E	15H35 D
09/02/07*	+1.12	-0.11	I	8H39 E	15H35 D
19/02/07	-0.66	-0.05	I	8H40 E	15H35 D
21/02/07*	-0.26	-0.10	I	8H39 E	15H35 D
28/02/07	+0.03	+0.12	I	8H32 E	15H33 D

NO DATA

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 more detailed analysis leading 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 of the very strong other source

**** no flux measurements available

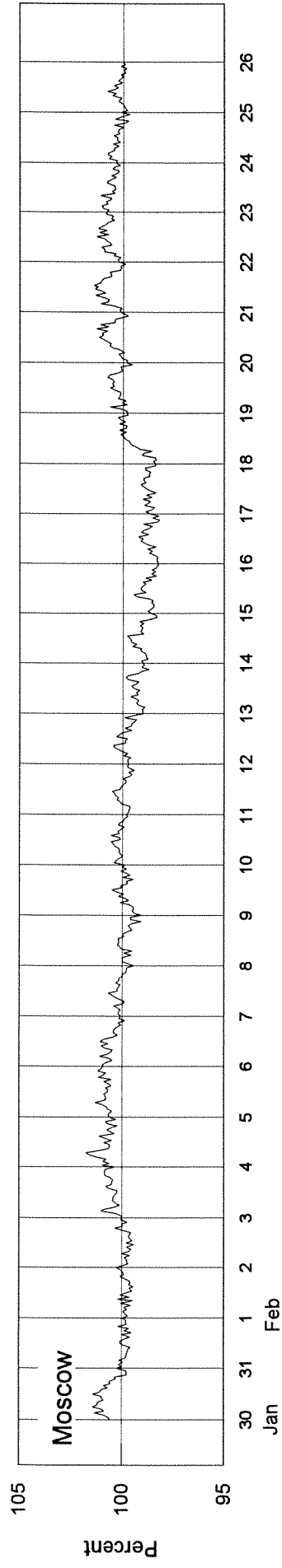
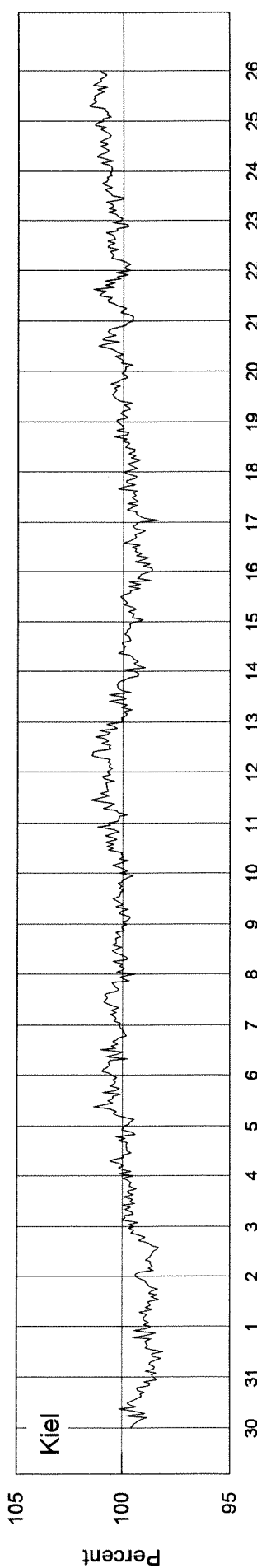
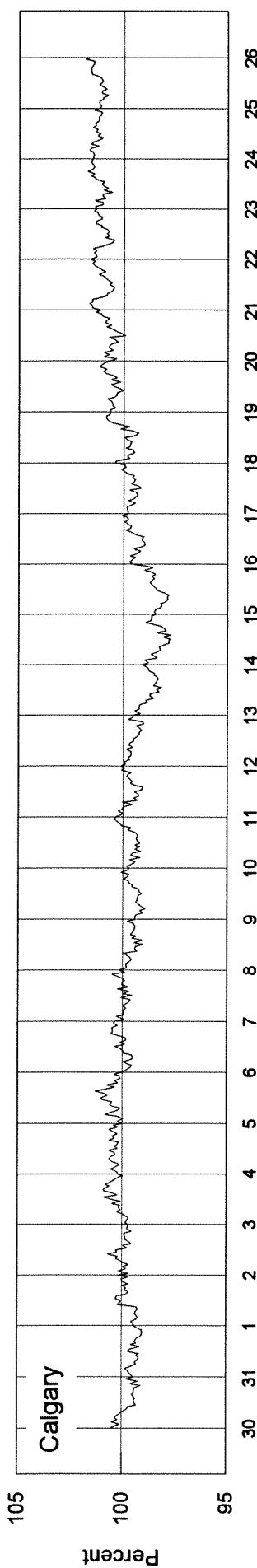
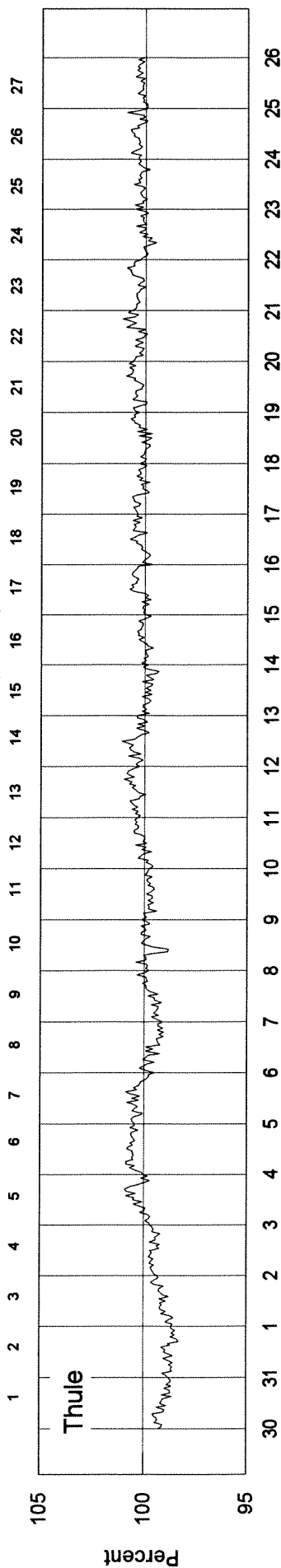
COSMIC RAY INDICES
(Neutron Monitor)
February 2007

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	4409.8	3906.2	6186.2	9349.5		2085.6	
2	4430.0	3915.2	6195.1	9349.2		2078.3	
3	4458.4	3927.8	6240.5	9418.0		2085.0	
4	4474.4	3932.0	6256.0	9445.9		2088.6	
5	4465.9	3936.3	6280.8	9448.0		2085.4	
6	4431.3	3917.8	6283.6	9425.1		2076.0	
7	4435.5	3916.5	6285.2	9383.7	data not available	2075.8	data not available
8	4444.2	3900.8	6267.9	9351.1		2074.8	
9	4441.4	3895.8	6261.3	9351.5		2079.9	
10	4455.2	3901.3	6281.5	9385.4		2088.2	
11	4472.6	3906.2	6299.4	9360.8		2089.9	
12	4466.2	3900.0	6310.2	9353.9		2086.9	
13	4444.9	3869.7	6258.9	9299.1		2073.1	
14	4452.7	3854.3	6242.5	9282.4		2078.4	
15	4462.3	3855.7	6232.5	9249.7		2078.0	
16	4460.8	3898.5	6214.0	9241.8		2076.3	
17	4462.0	3903.7	6229.2	9253.6		2081.1	
18	4457.5	3917.3	6246.6	9320.7		2084.0	
19	4470.5	3940.3	6267.7	9390.0		2079.2	
20	4469.0	3943.7	6279.7	9414.4		2083.8	
21	4469.8	3960.2	6282.0	9434.8		2082.3	
22	4452.2	3961.2	6278.0	9437.4		2087.7	
23	4460.4	3966.5	6293.4	9425.7		2087.1	
24	4467.1	3971.0	6313.1	9398.2		2089.2	
25	4458.2	3966.8	6326.6	9383.0		2082.3	
26	4433.5	3953.0	6302.1	9353.5		2076.0	
27	4440.8	3938.8	6283.2	9363.4		2074.2	
28	4445.3	3939.3	6312.1	9405.5		2078.0	
29							
30							
31							
Mean	4453.0	3921.3	6268.2	9367.0		2081.6	

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.

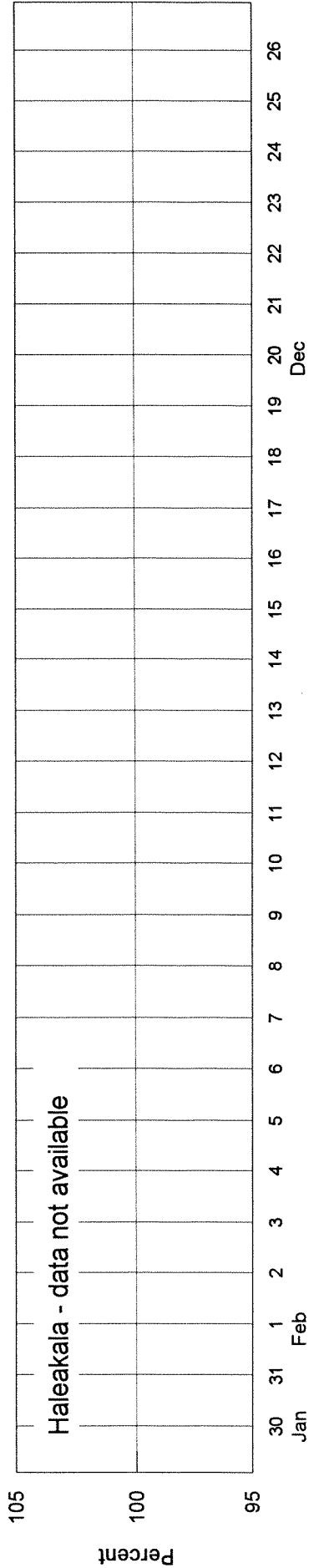
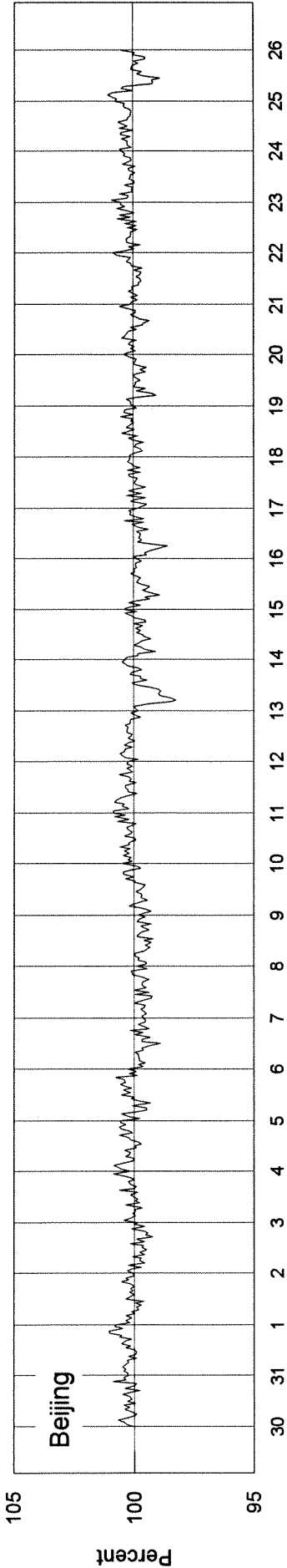
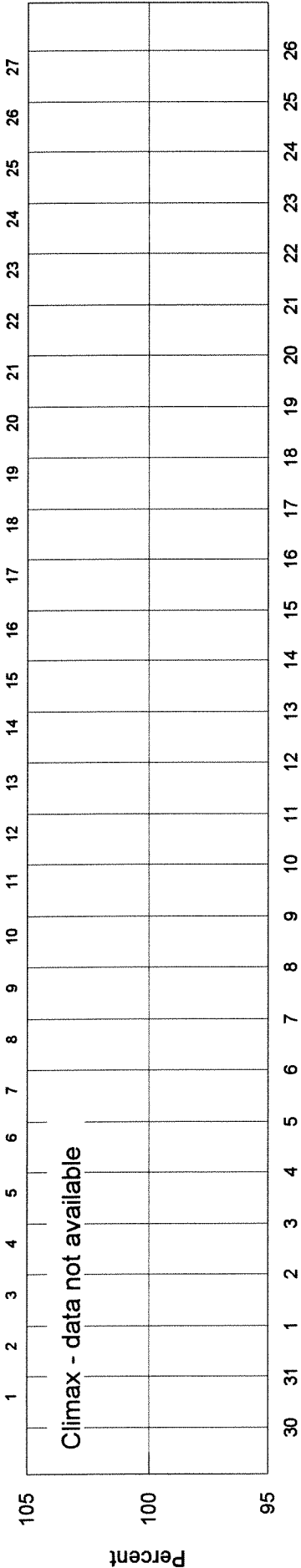
COSMIC RAY INDICES (Neutron Monitor)

Bartels Rotation 2368 - Beginning 30 Jan 2007



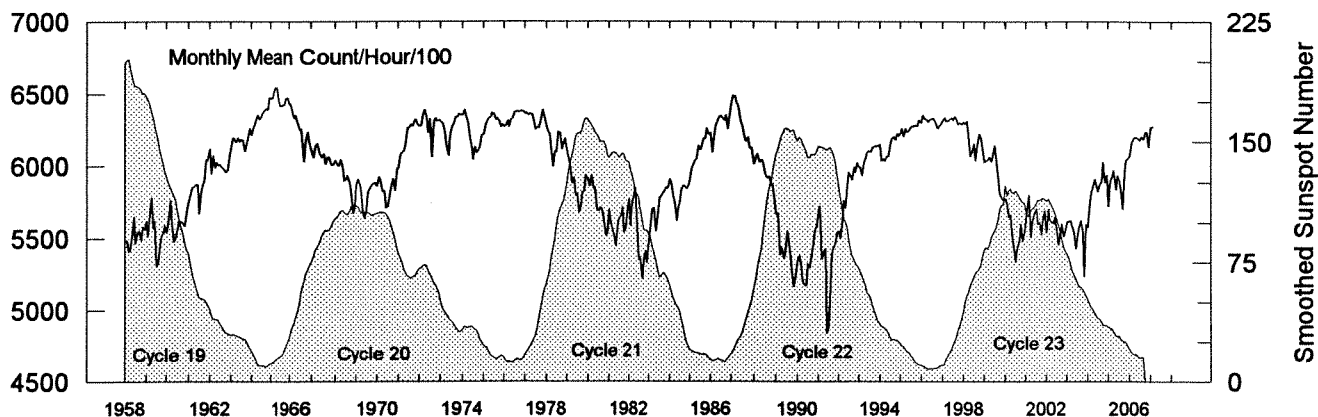
COSMIC RAY INDICES
(Neutron Monitor)

Bartels Rotation 2368 - Beginning 30 Jan 2007



Kiel Neutron Monitor Pressure-Corrected Values Jan 1958 - Feb 2007

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Feb 07

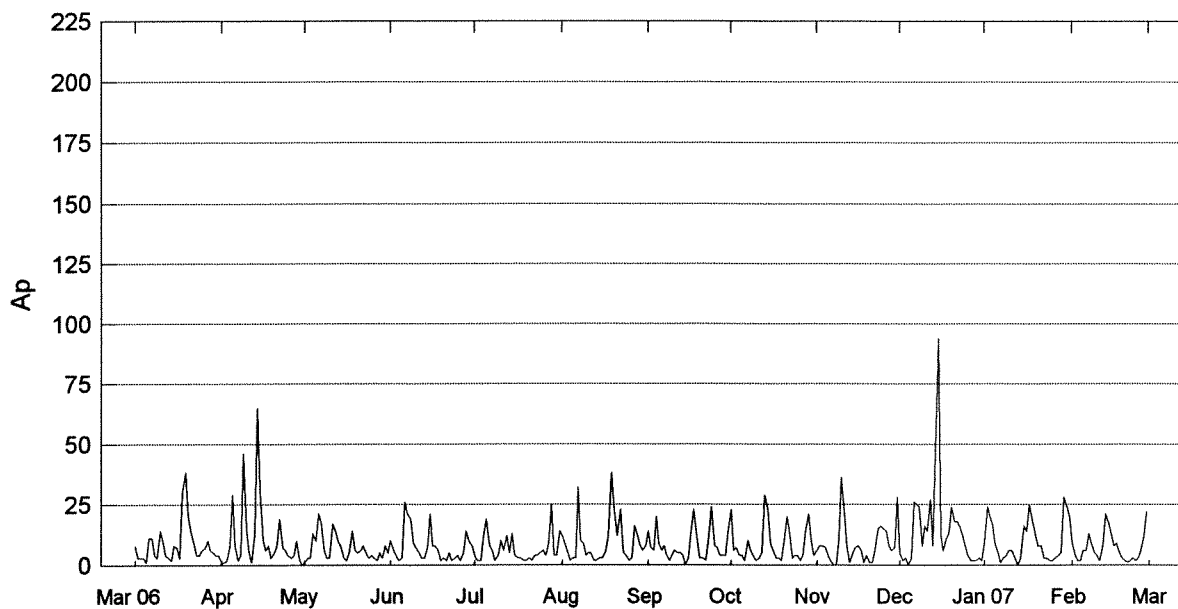


Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1958	5481	5488	5409	5417	5523	5651	5466	5538	5553	5485	5584	5561	5513
1959	5623	5515	5659	5783	5569	5625	5307	5328	5420	5518	5536	5593	5540
1960	5539	5628	5764	5596	5480	5509	5557	5628	5620	5607	5586	5692	5601
1961	5766	5793	5853	5856	5872	5874	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	5873	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											6269

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

Daily Average Indices Ap Mar 2006 - Feb 2007

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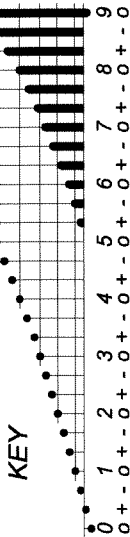
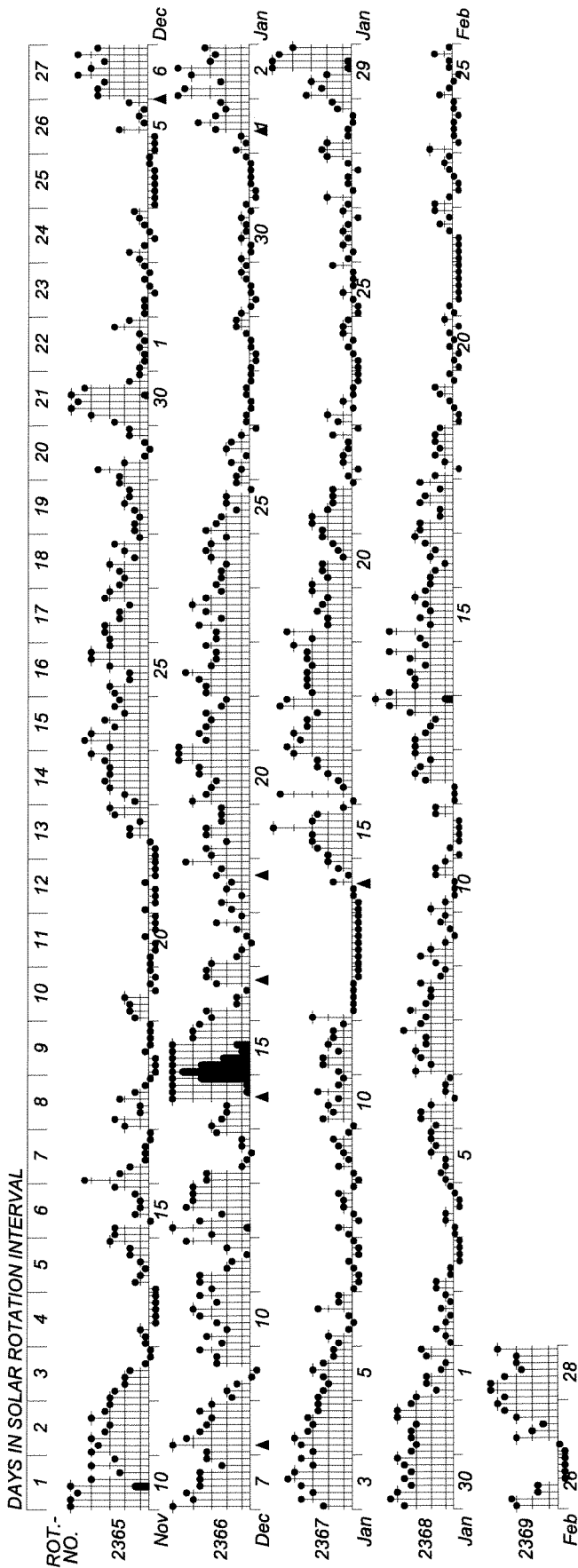


Day	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 07	Feb
1	8	1	1	10	4	12	14	23	6	5	9	9
2	3	1	3	6	2	9	7	6	8	2	24	4
3	3	2	3	4	2	5	6	7	8	3	20	2
4	3	8	13	2	12	2	20	4	7	0	17	2
5	1	29	10	3	19	3	9	4	4	3	9	6
6	11	8	21	26	8	3	6	2	2	26	5	6
7	11	2	18	21	6	32	8	10	0	25	1	13
8	4	4	6	19	2	10	4	6	0	24	3	9
9	3	46	3	9	4	9	2	4	10	8	4	5
10	14	15	3	7	10	4	4	2	36	16	6	4
11	10	5	17	5	6	5	6	3	21	14	6	2
12	4	1	14	3	12	5	5	5	7	27	3	8
13	3	13	10	3	5	2	5	29	1	8	0	21
14	2	65	7	7	13	2	4	23	5	47	3	18
15	8	31	3	21	4	3	0	9	7	94	16	13
16	7	10	2	8	3	3	3	6	8	12	14	8
17	3	6	5	8	3	5	14	3	6	6	25	9
18	30	8	14	6	2	11	23	3	1	11	18	5
19	38	3	6	2	2	38	11	2	4	13	13	3
20	20	5	5	3	3	22	3	11	1	24	8	2
21	14	8	6	2	2	12	3	20	1	18	8	1
22	10	19	8	5	4	23	2	14	6	18	3	2
23	4	7	5	2	4	5	11	3	15	16	3	3
24	4	6	3	3	5	4	24	4	16	12	2	2
25	6	4	4	4	6	2	8	4	15	8	2	3
26	7	3	3	2	4	3	7	2	14	4	3	6
27	10	4	2	5	8	16	4	4	8	2	4	12
28	6	10	5	14	25	12	4	14	6	2	5	22
29	5	2	3	10	4	8	4	21	7	2	28	
30	4	0	8	8	4	6	14	10	28	3	24	
31	4		5		14	8		4		2	20	
Mean	8	11	7	8	6	9	8	9	9	15	10	7

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

GeoForschungsZentrum Potsdam

Kp through February 28, 2007

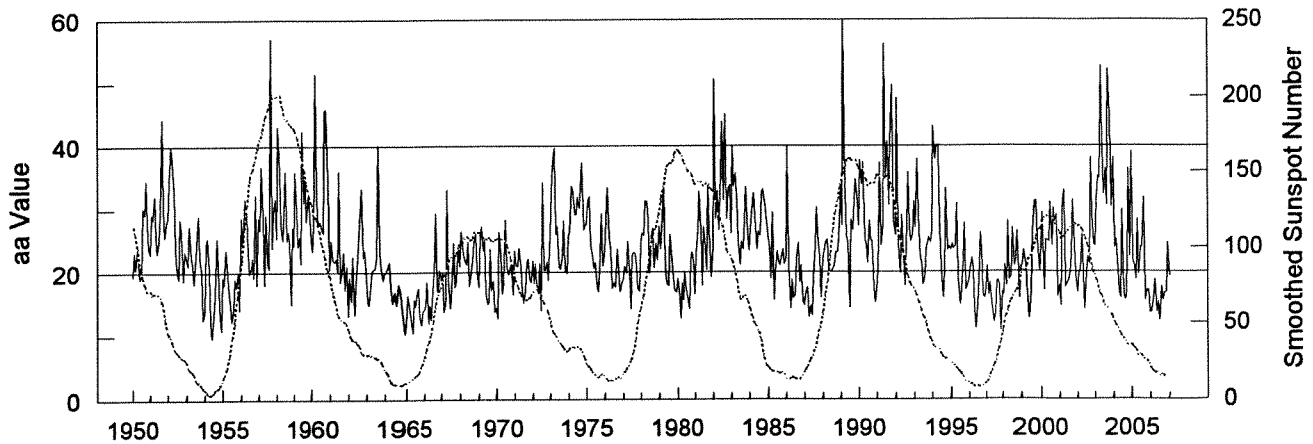


▲ = sudden
commencement

PLANETARY MAGNETIC
THREE-HOUR-RANGE INDICES

Kp till 2007 Feb 28

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Feb 07



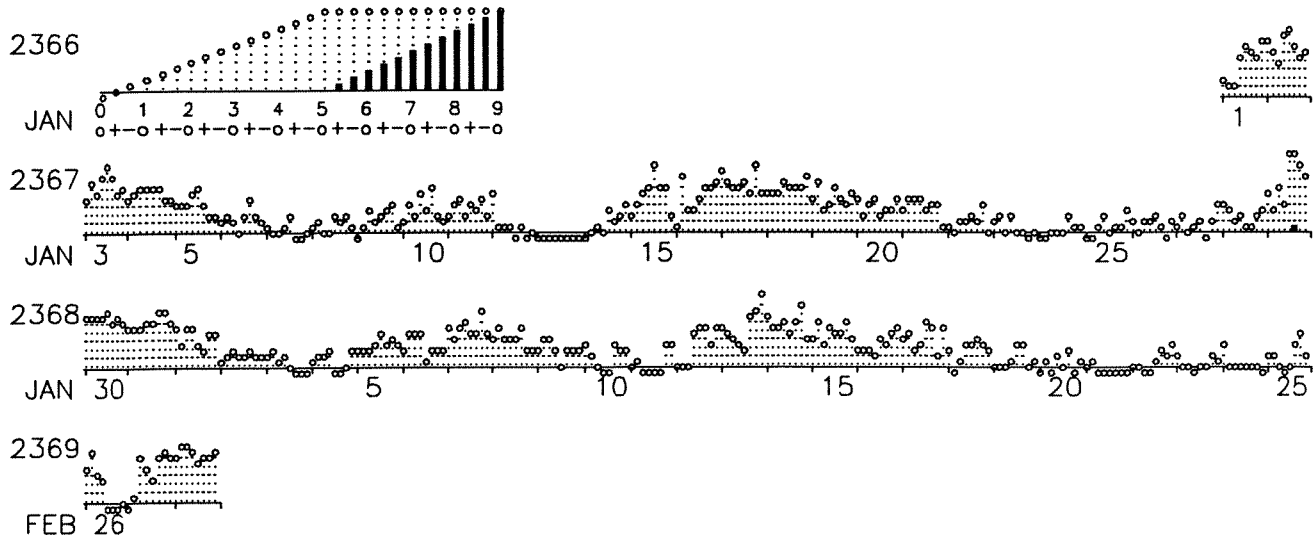
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1950	19.5	23.2	20.6	23.8	21.7	19.0	19.5	30.2	29.3	34.5	28.0	24.0	24.4
1951	23.1	29.2	28.5	32.1	25.5	23.2	25.2	29.7	44.4	30.3	25.7	28.2	28.8
1952	28.5	34.3	40.1	38.0	33.1	23.8	20.7	19.0	28.5	26.4	18.9	23.4	27.9
1953	22.3	21.2	27.4	22.7	21.4	18.4	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											16.8

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

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

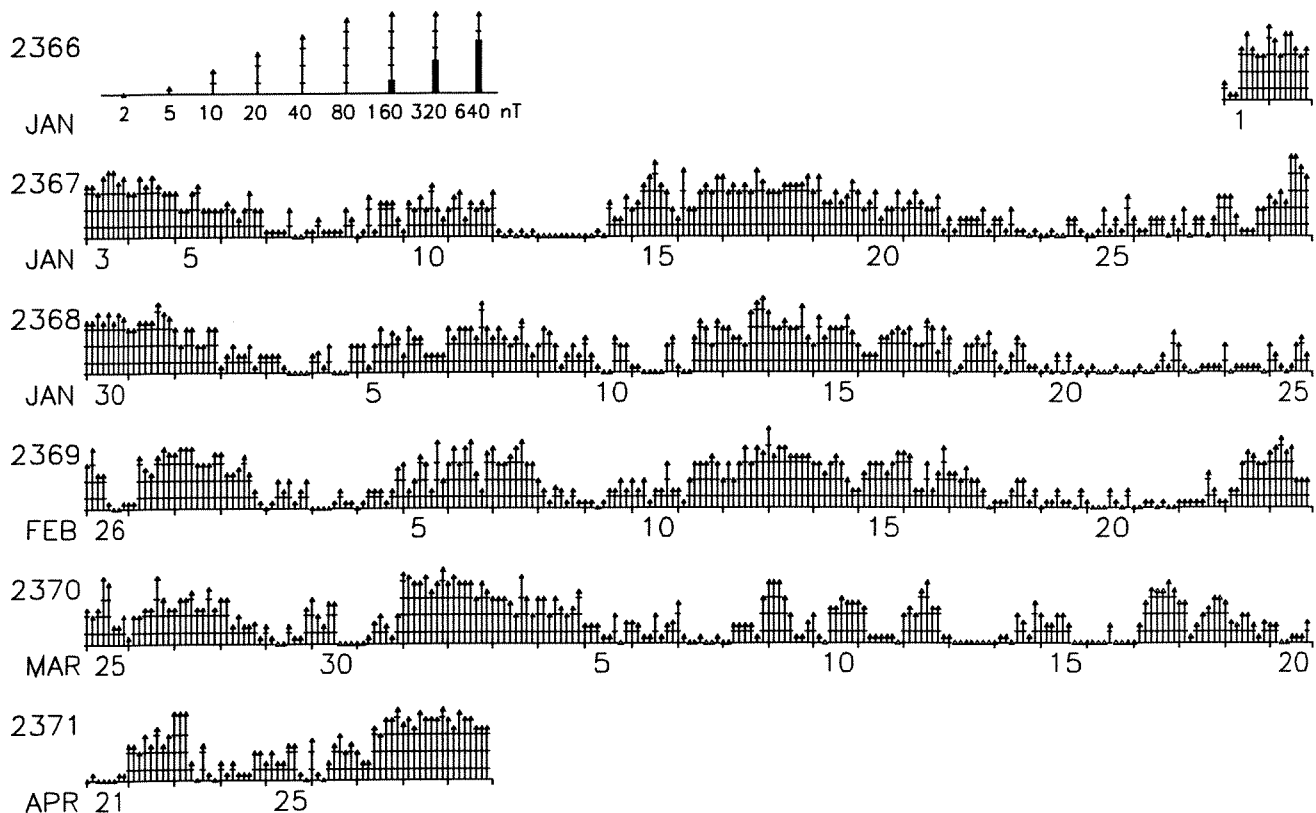
CETP, 4 Avenue de Neptune, F-94107 Saint Maur des Fosses CEDEX — FRANCE

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km(provisional) JAN-FEB 2007
No 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



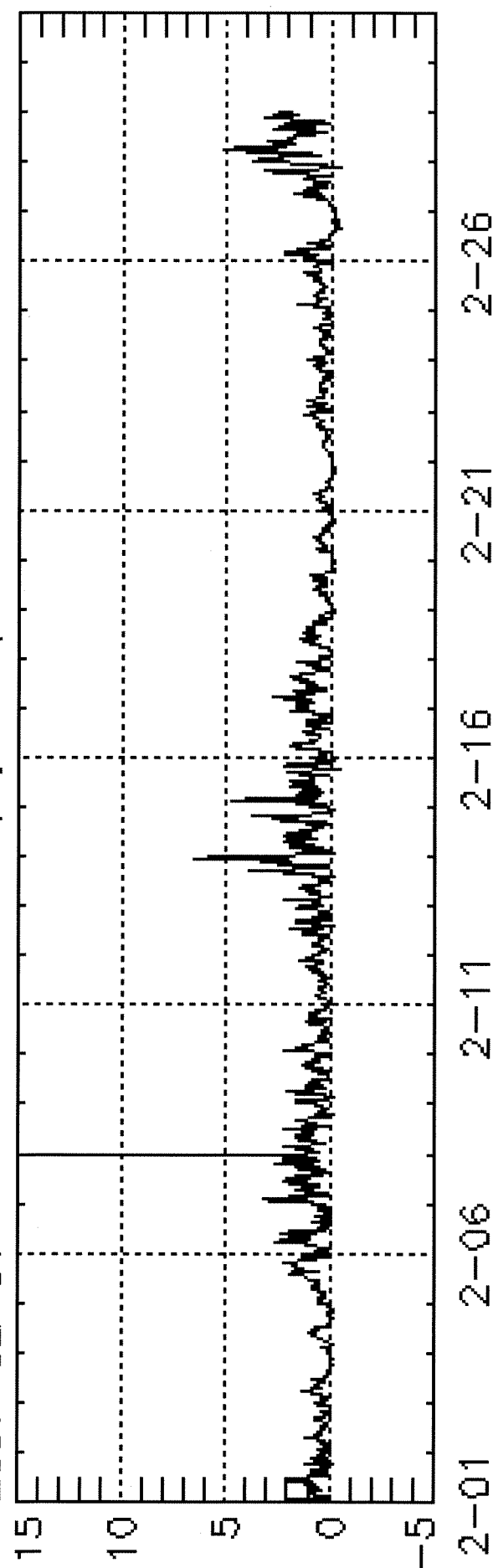
Indices Derivation at C.E.T.P.; Graph Prepared at ISGI Publication Office.

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) JAN-APR 2007
No 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



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

WDC C1 for Geomagnetism, Copenhagen
Polar Cap index
Qaanaaq (Thule), THL



Date, mm-dd
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 1907

Sta	Geomag Lat	Commencement			SC Amplitudes			Maximum 3-Hour K Index Day(3-Hour Periods)	D K (Min)	Ranges			End	
		Day	Time (UT)	Type	D (Min)	H (Gamma)	Z (Gamma)			D H	Z	Day	Hour	
HYB	07.6N	06	0800	..	..	..	..	7(7)	4	2	59	12	08	24
JAI	17.4N	12	1000	..	..	..	..	13(7) 13(7)	-	3	68	20	14	23
NGP	11.3N	12	1000	..	..	..	..		-	3	72	17	14	23
ABG	09.4N	12	1000	..	..	..	..		5	2	73	30	14	23
HYB	07.6N	12	0900	..	..	..	..		5	2	81	27	15	22
PND	02.0N	12	1000	..	..	..	..		-	2	78	38	14	23
TIR	00.6S	12	1000	..	..	..	..		-	3	123	44	14	23
JAI	17.4N	27	0400	..	..	..	..	27(3,7) 28(1,2,3,4,6) 28(4)	-	4	104	14	28	24
NGP	11.3N	27	0400	..	..	..	..		-	3	116	11	28	24
ABG	09.4N	27	0400	..	..	..	..		4	3	116	23	28	24
HYB	07.6N	27	0200	..	..	..	..		5	3	120	11	01	21
PND	02.0N	27	0400	..	..	..	..		-	3	125	43	28	24
TIR	00.6S	27	0400	..	..	..	..		-	4	145	53	28	24

Stations:

ABG = ALIBAG
 AMS = MARTIN DE VIVIES
 ANN = ANNAMALAINAGAR
 BJI = BEIJING
 CAN = CANBERRA
 CMO = COLLEGE

CZT = PORT ALFRED
 DRV = DUMONT D'URVILLE
 ETT = ETAIYAPURAM
 GNA = GNANGARA
 GUA = GUAM
 HER = HERMANUS

HON = HONOLULU
 HYB = HYDERABAD
 JAI = JAIPUR
 KRC = KARACHI
 NGP = NAGPUR
 PAF = PORT AUX FRANCAIS

PMG = PORT MORESBY
 PND = PONDICHERRY
 SHL = SHILLONG
 SIT = SITKA
 TIR = TIRUNELVELI
 UJJ = UJJAIN

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

February 2007

Storm Sudden Commencements (SSC)

Day Time Quality: Station Group*

Solar Flare Effects (sfe)

Day Begin-End Station(s)

NO EVENTS REPORTED

REPORTING OBSERVATORIES (up to the 3rd of March 2007):

SOD NUR LER ESK NGK VAL HAD DOU BDV CLF HRB NAG GCK 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 Antarctic Station LIVINGSTONE (62° 39' 44" S, 60°23' 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.