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Data for November, October 1994, and Late Data

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SOLAR-GEOPHYSICAL DATA

Number 604

(Issued in Two Parts)

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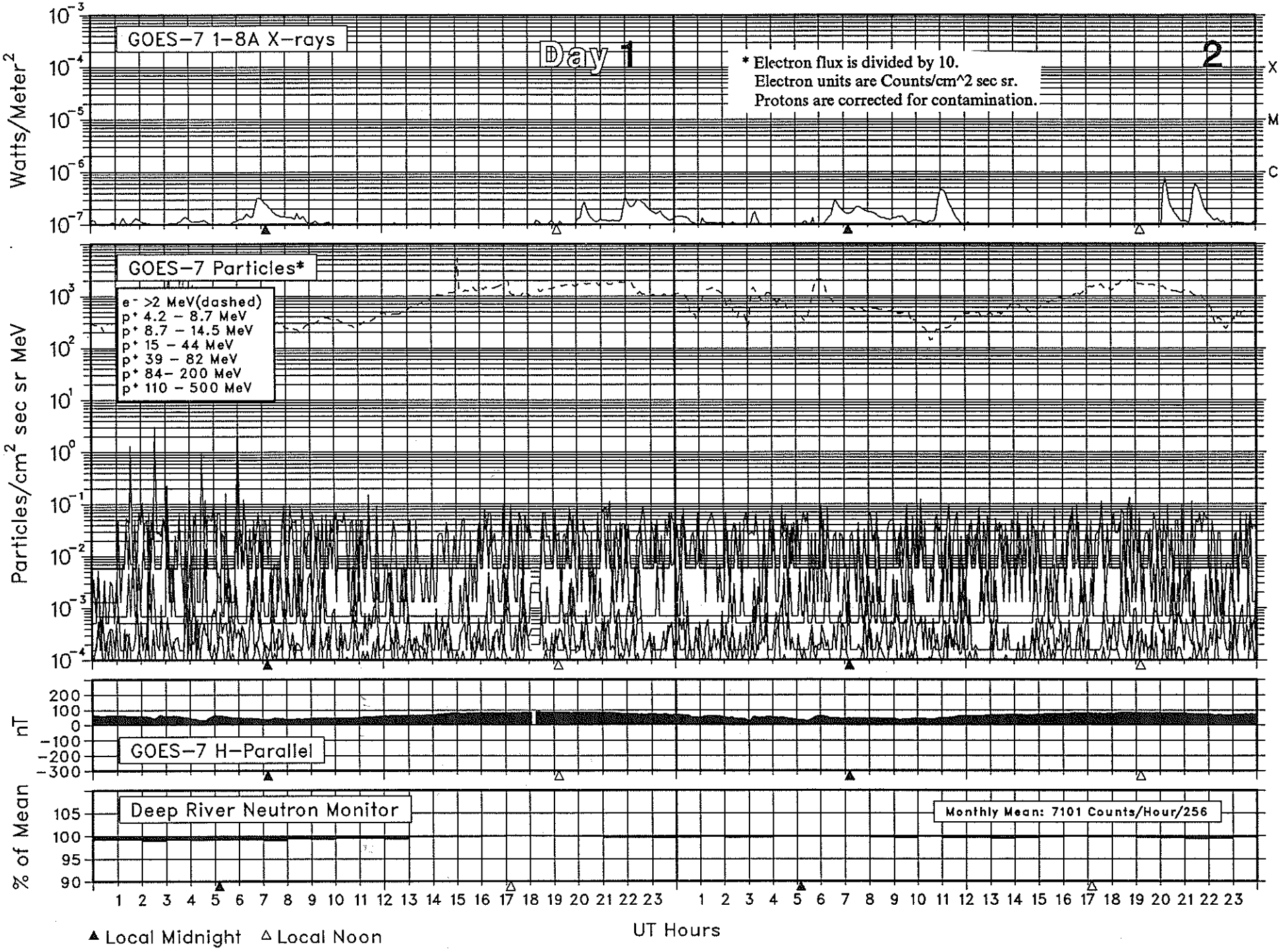

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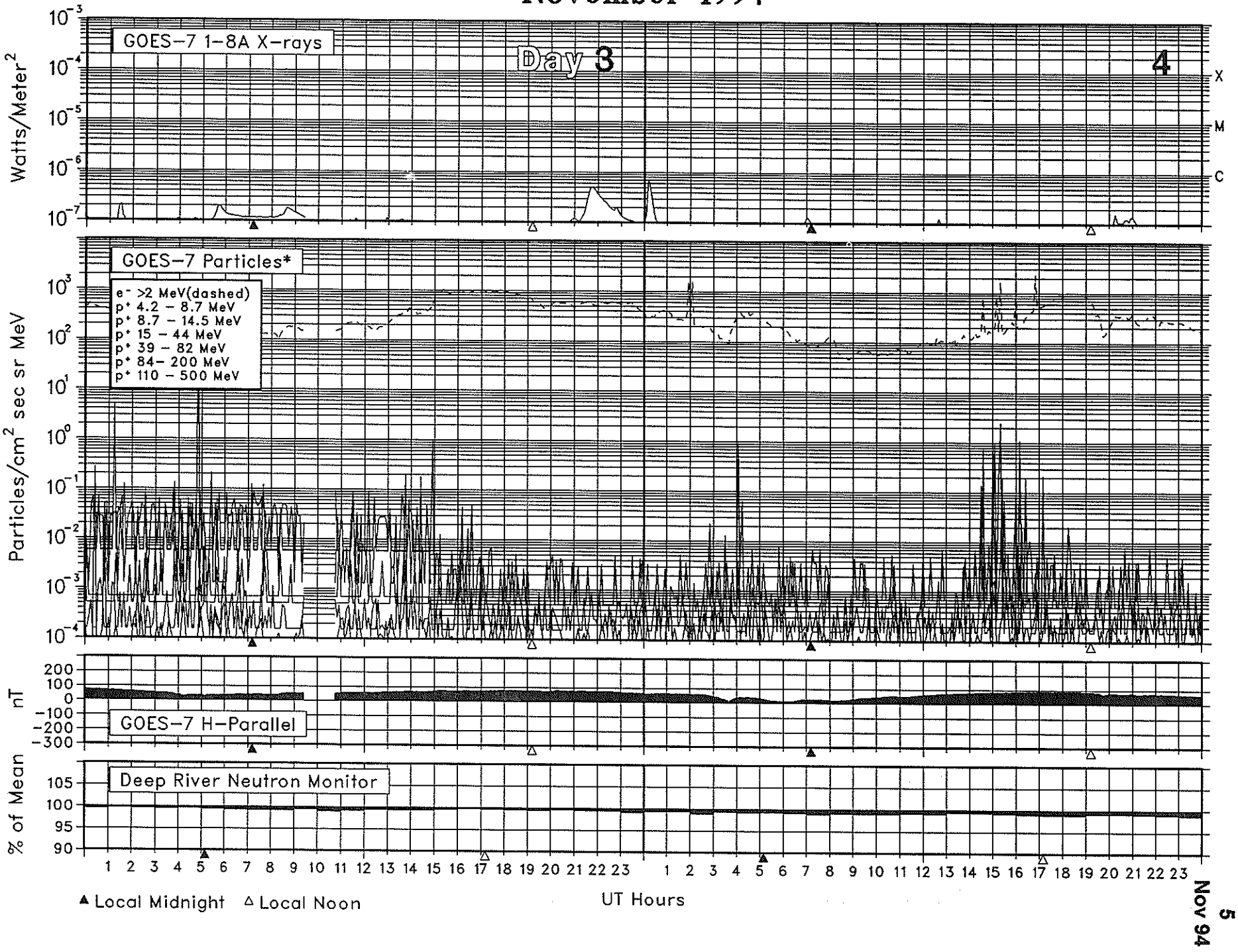

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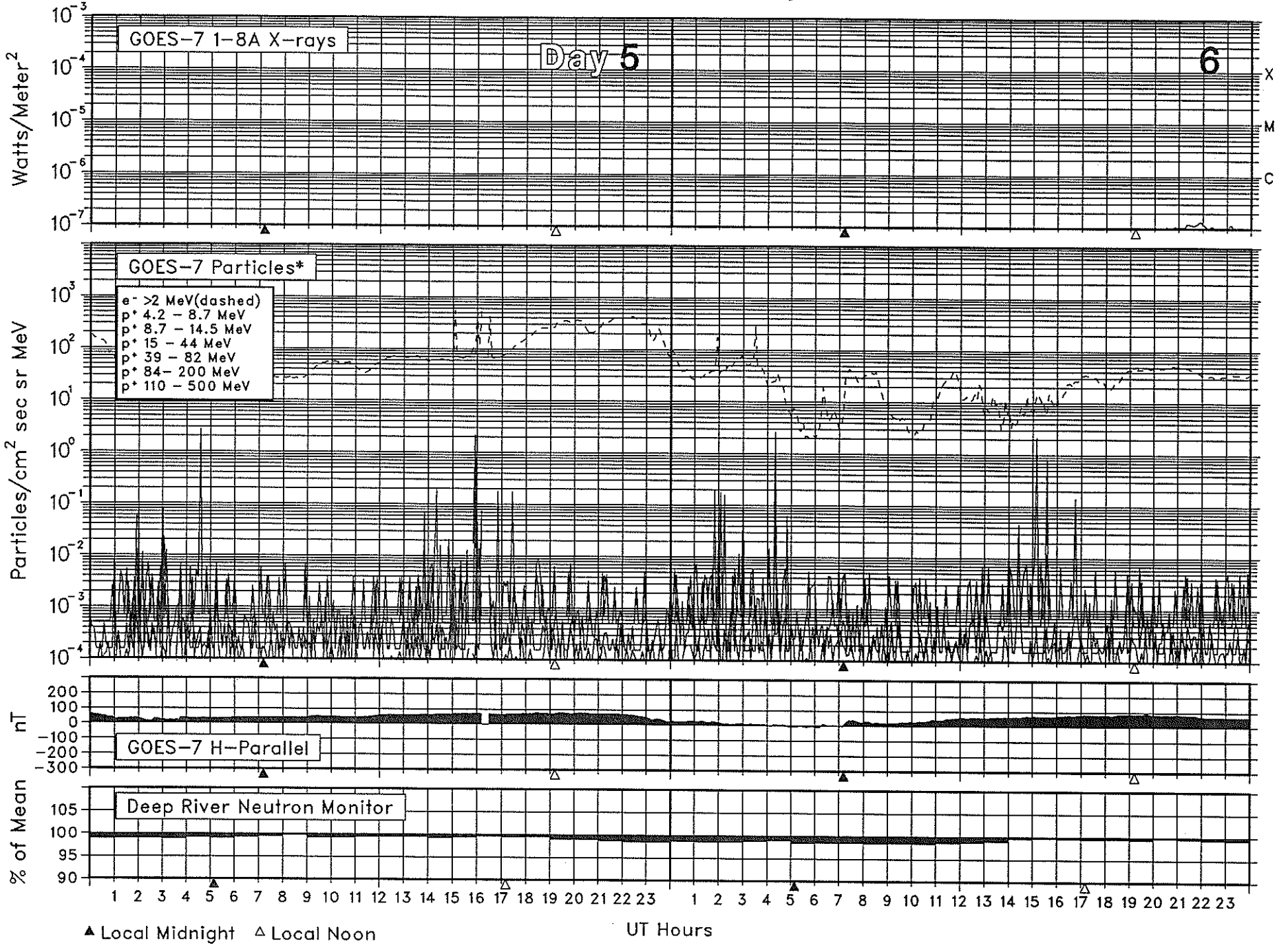

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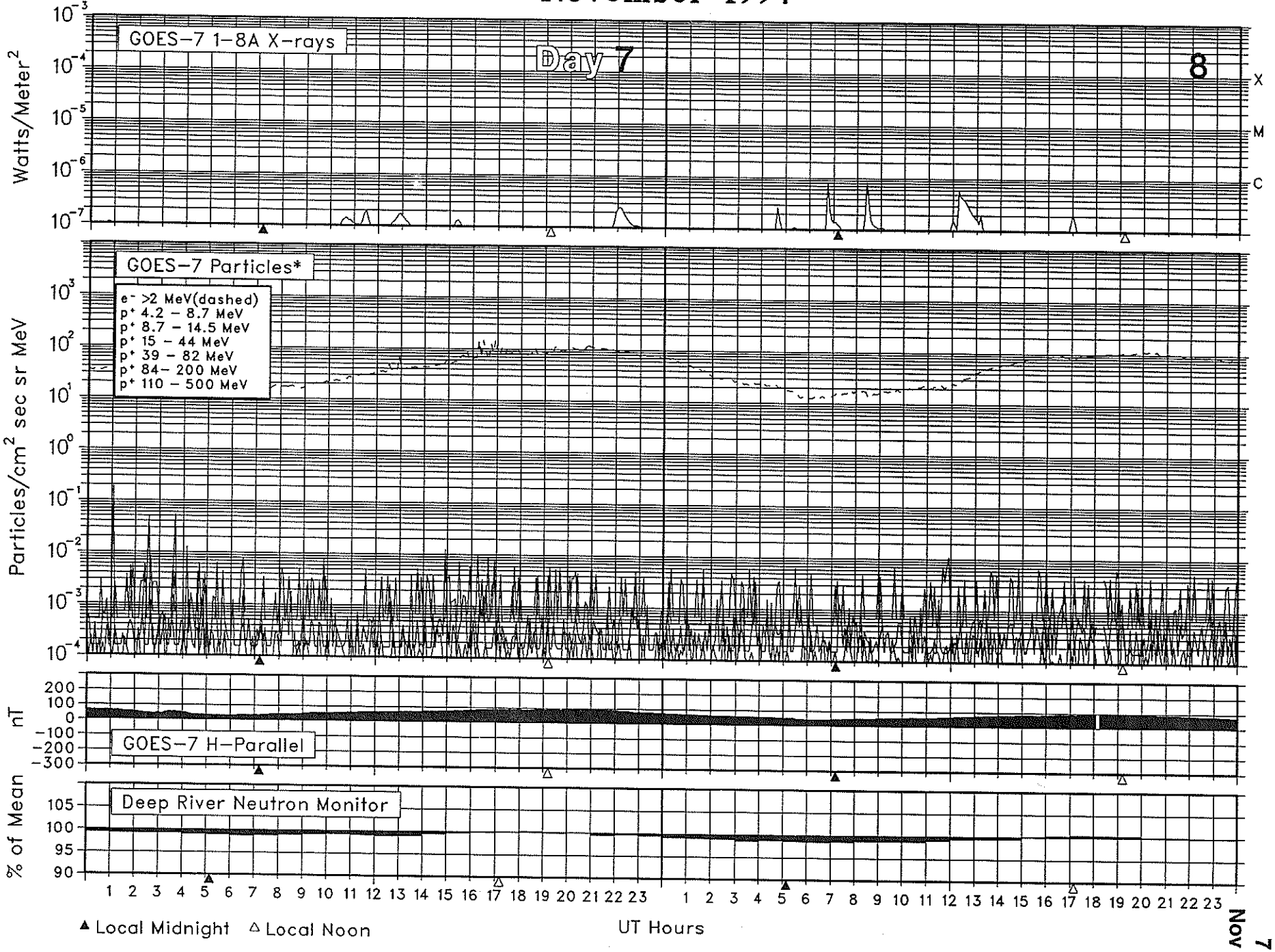

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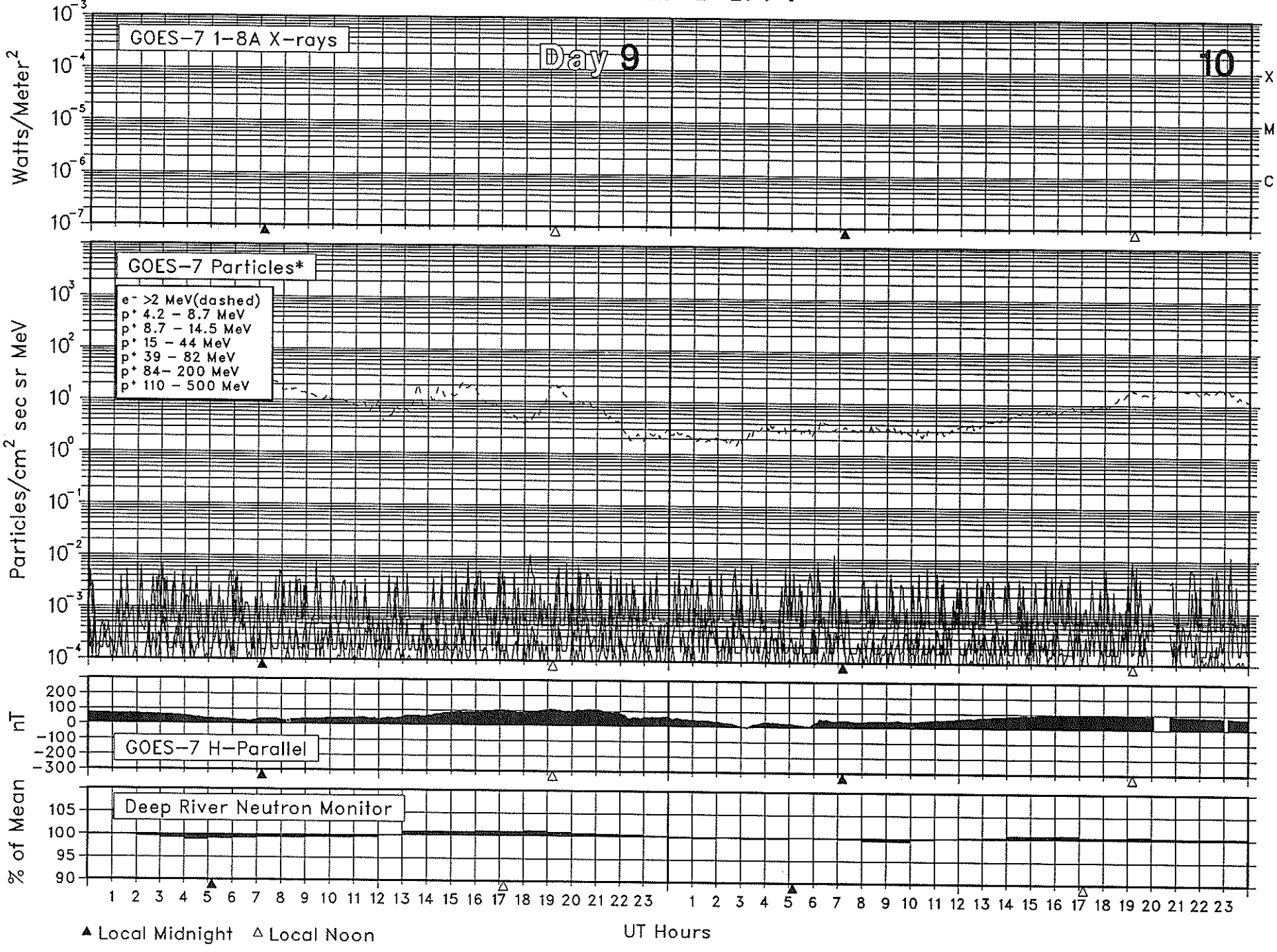

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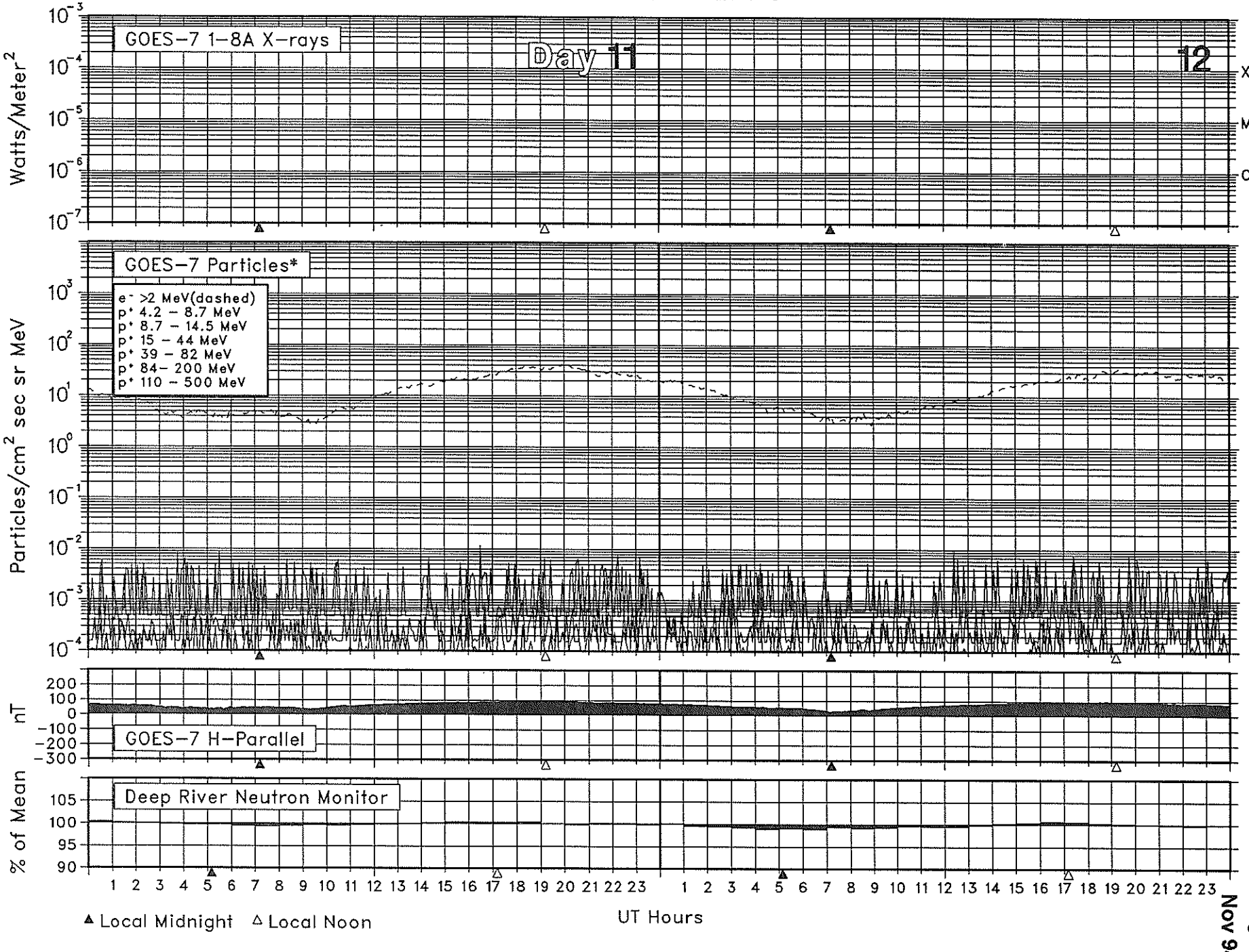

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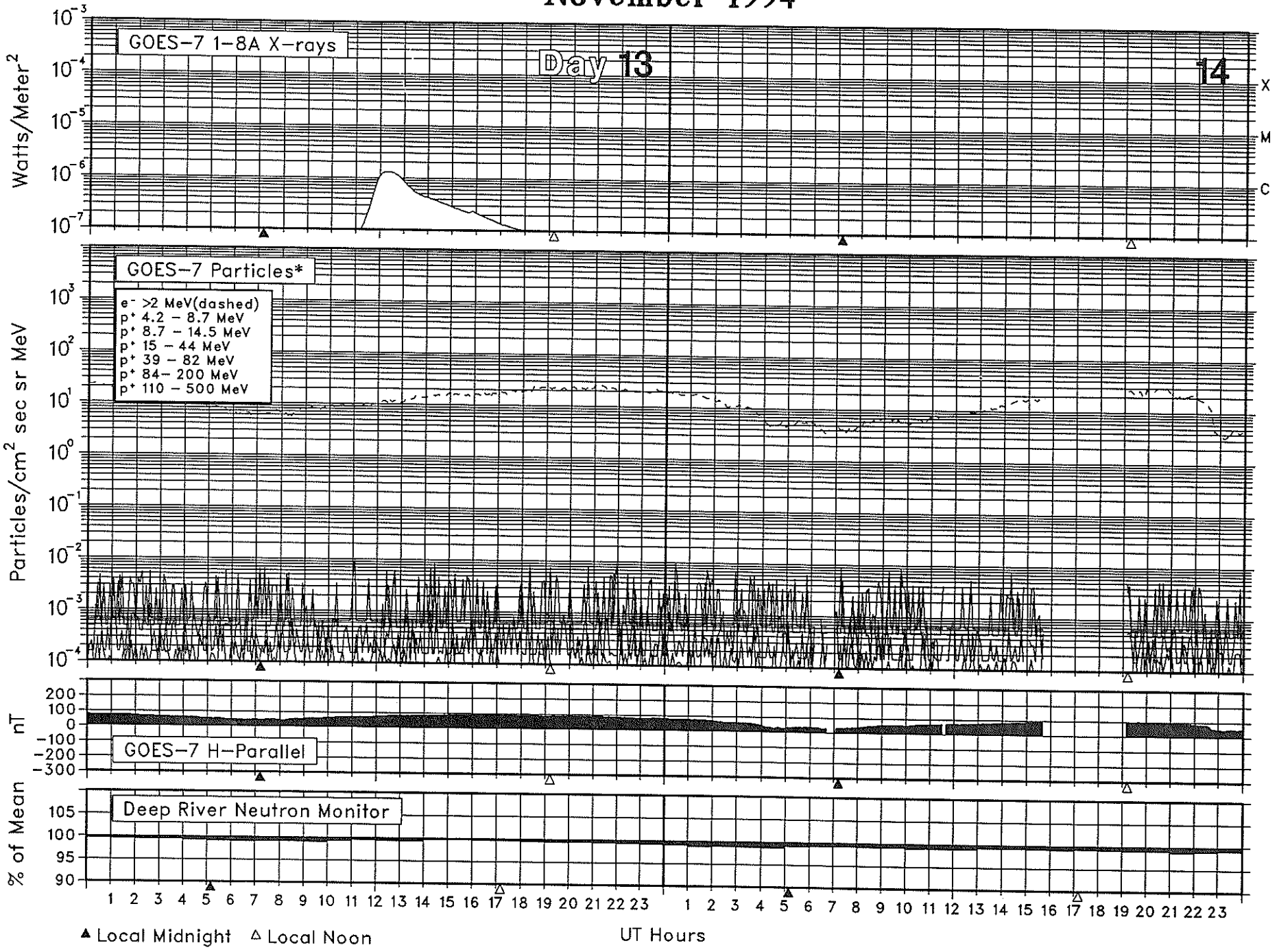

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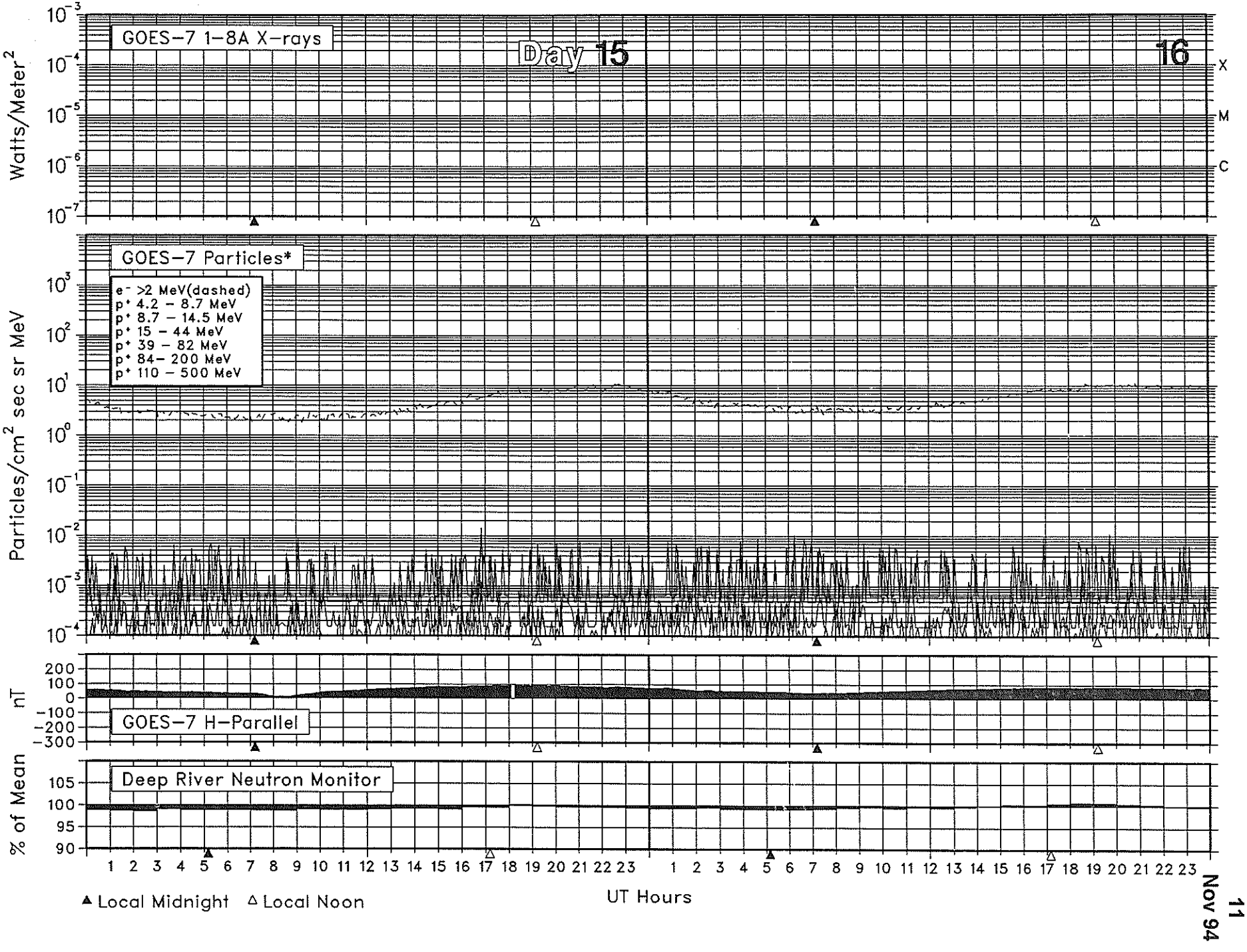

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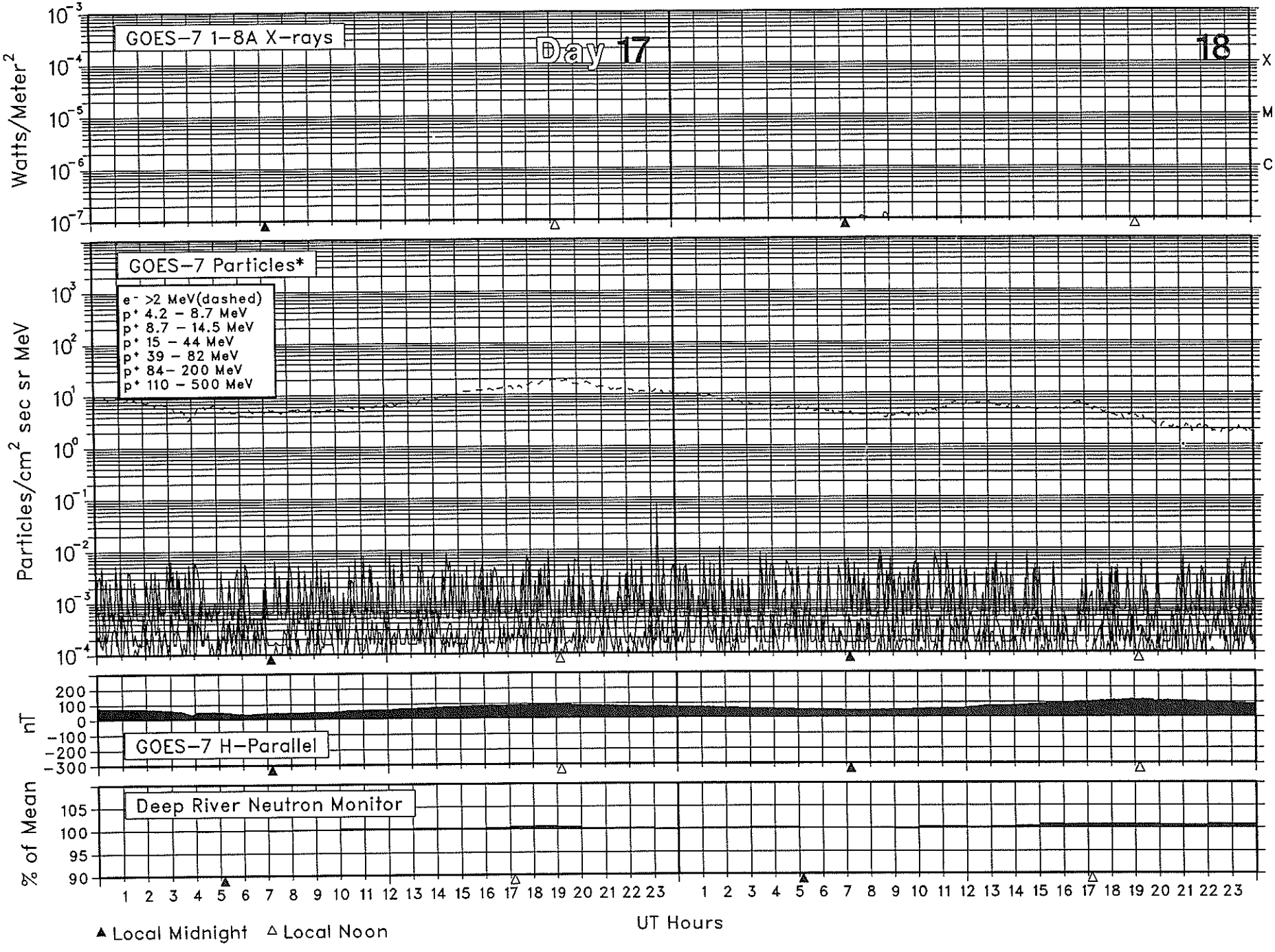

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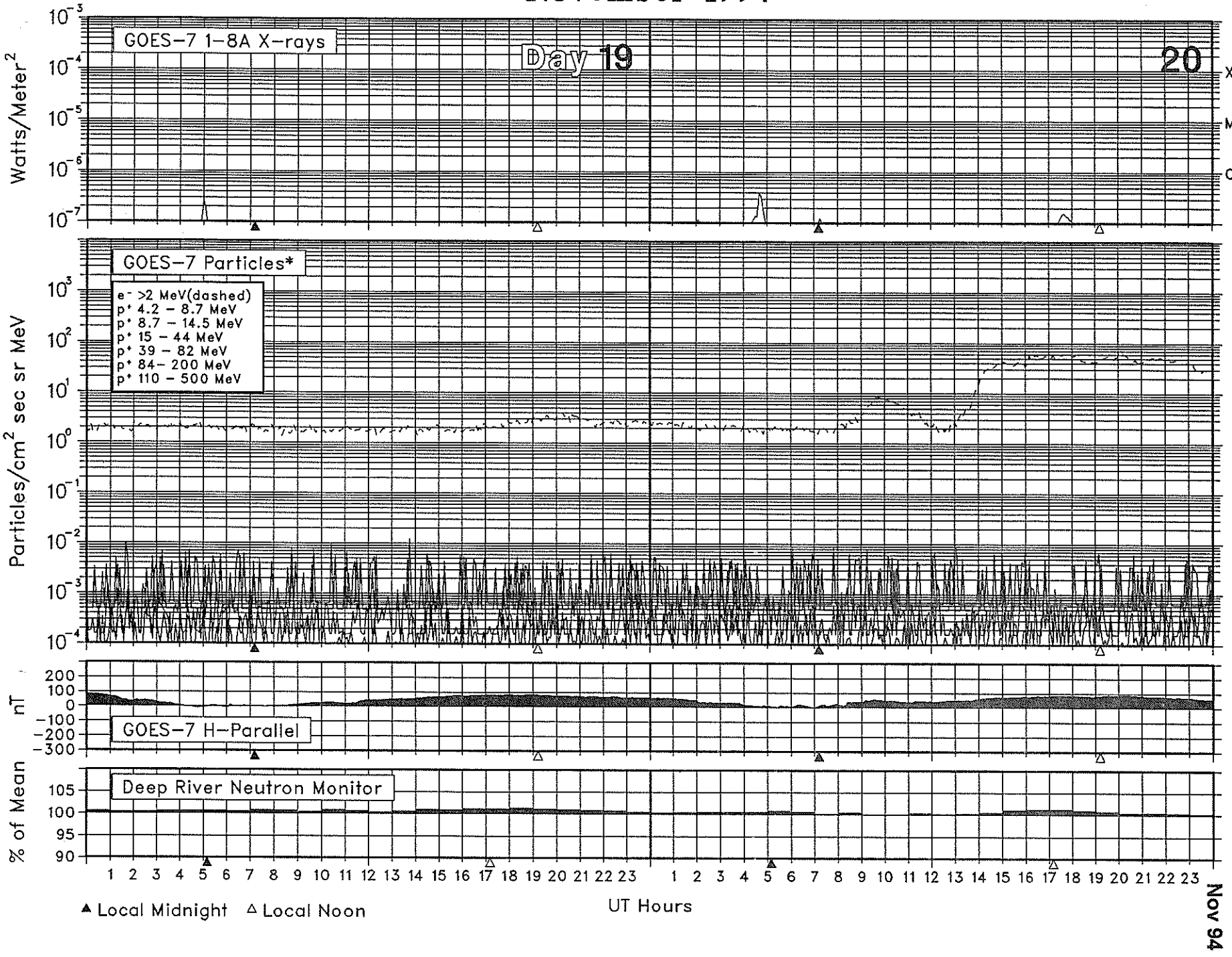

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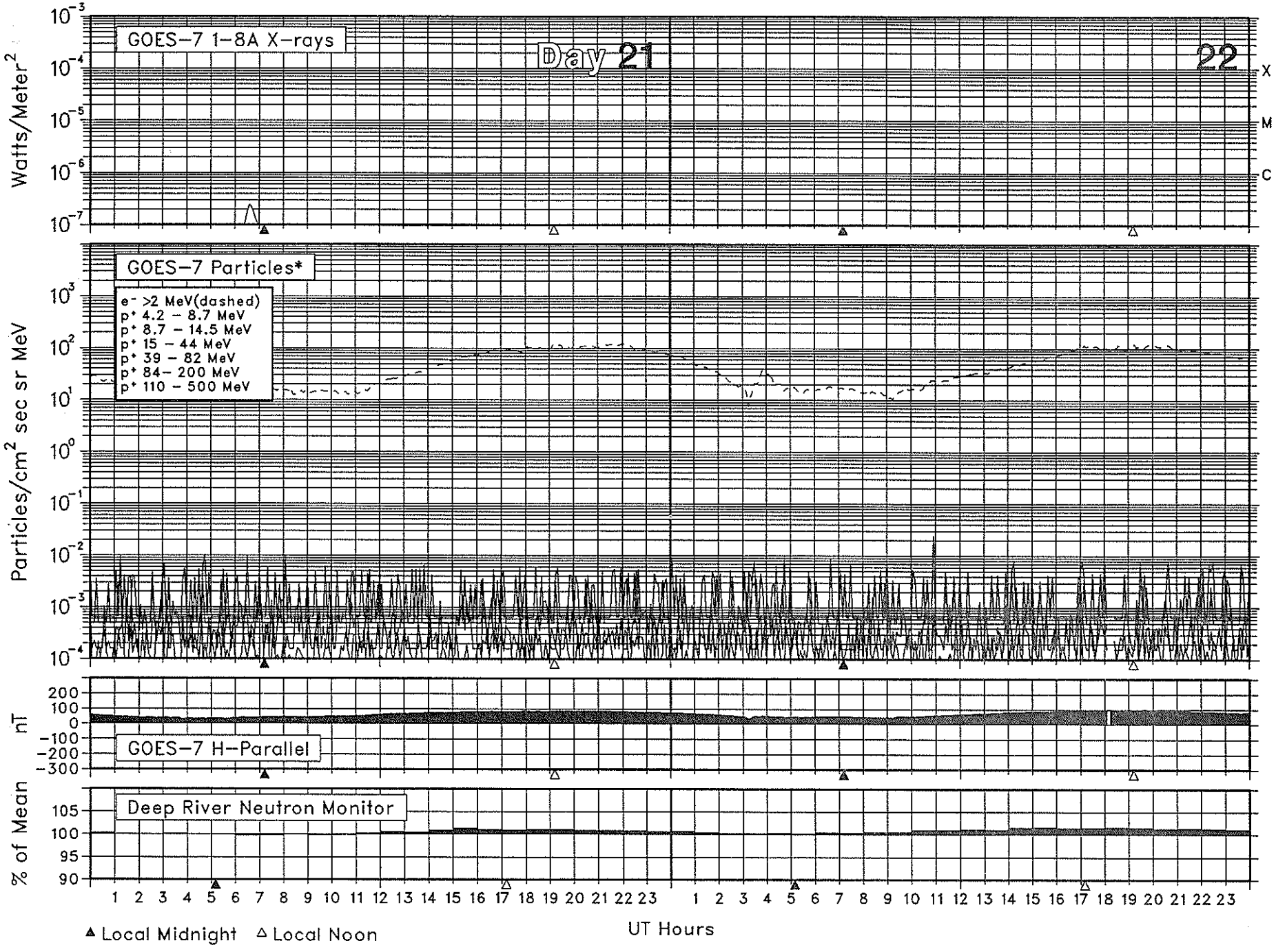

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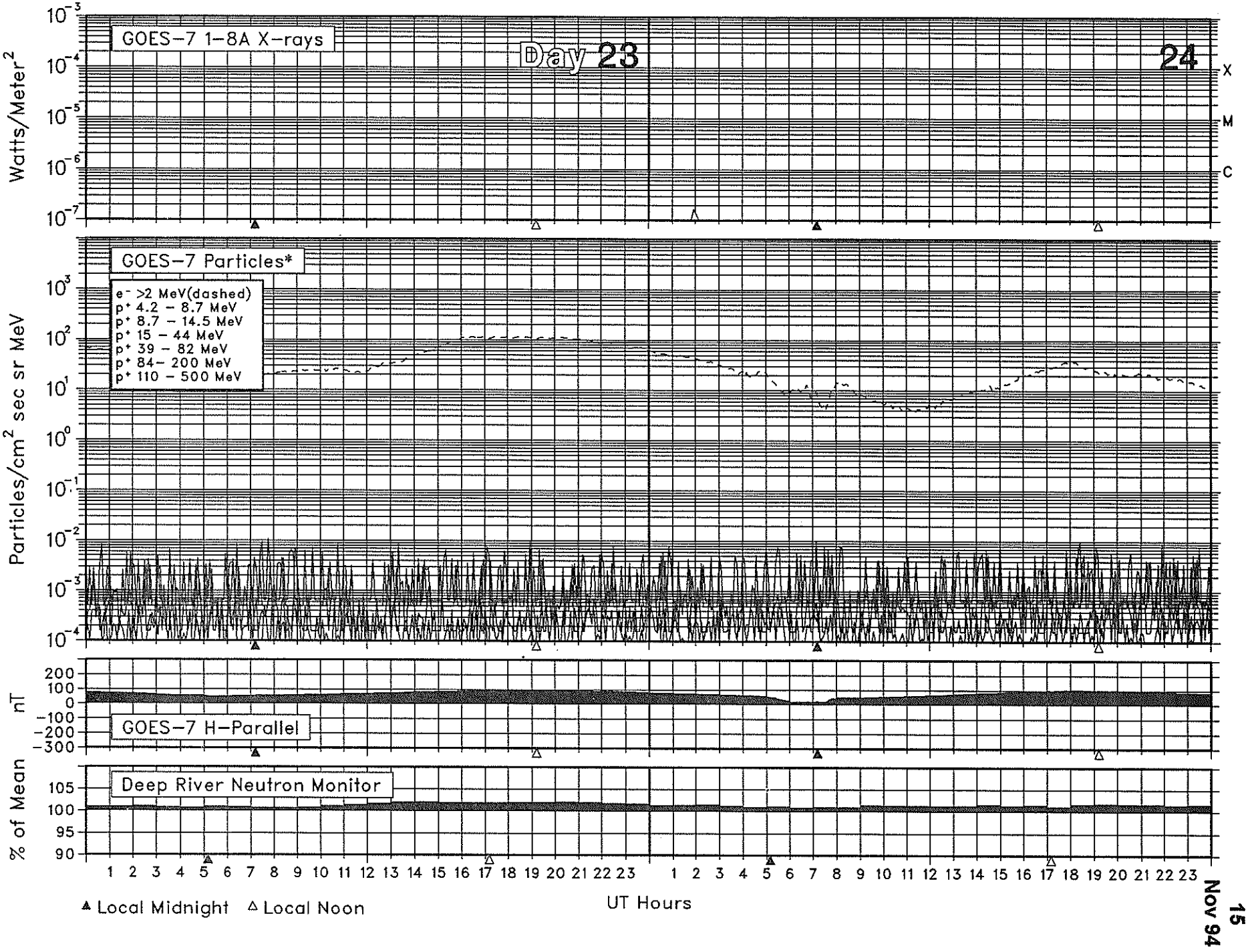

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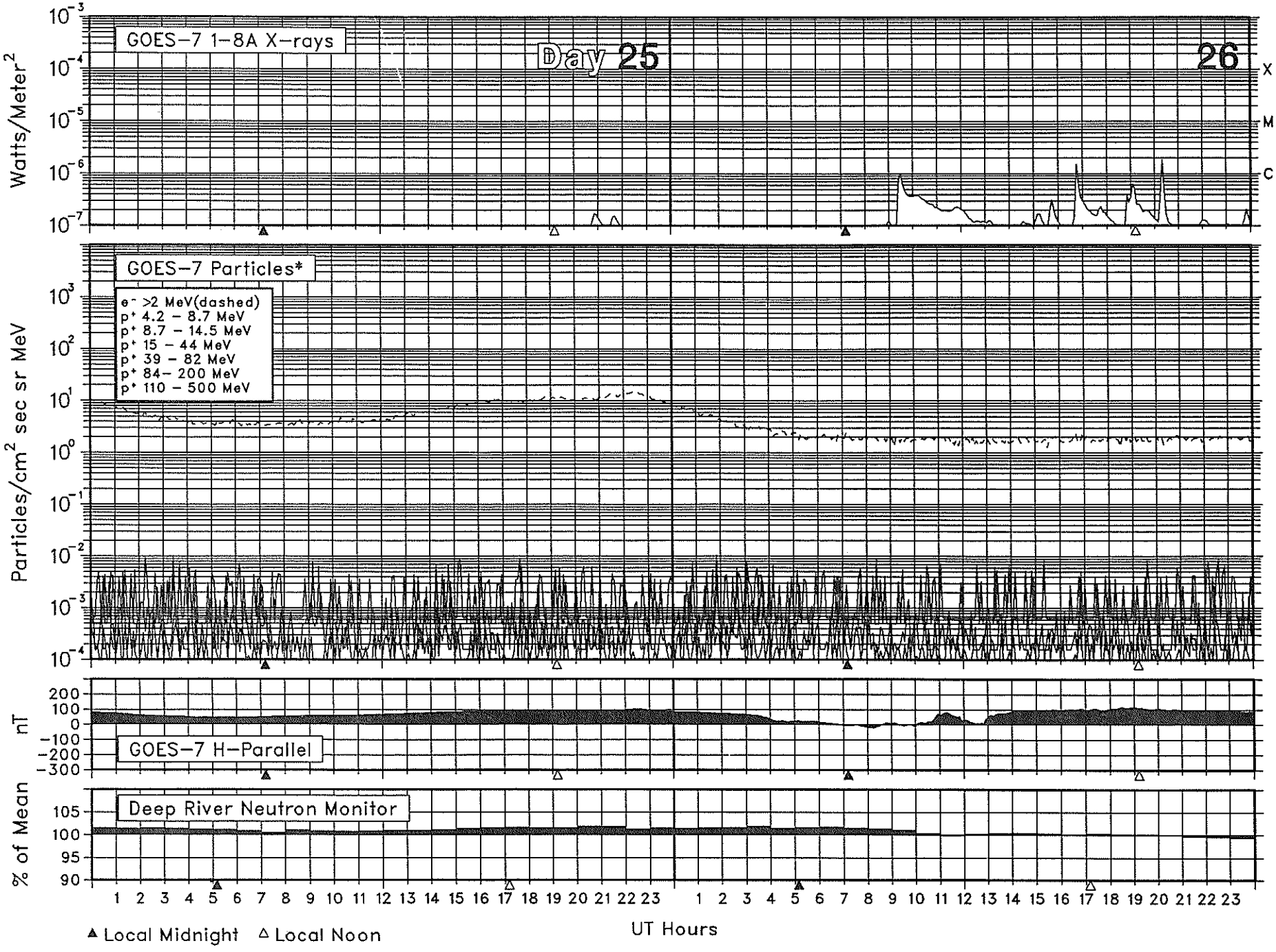

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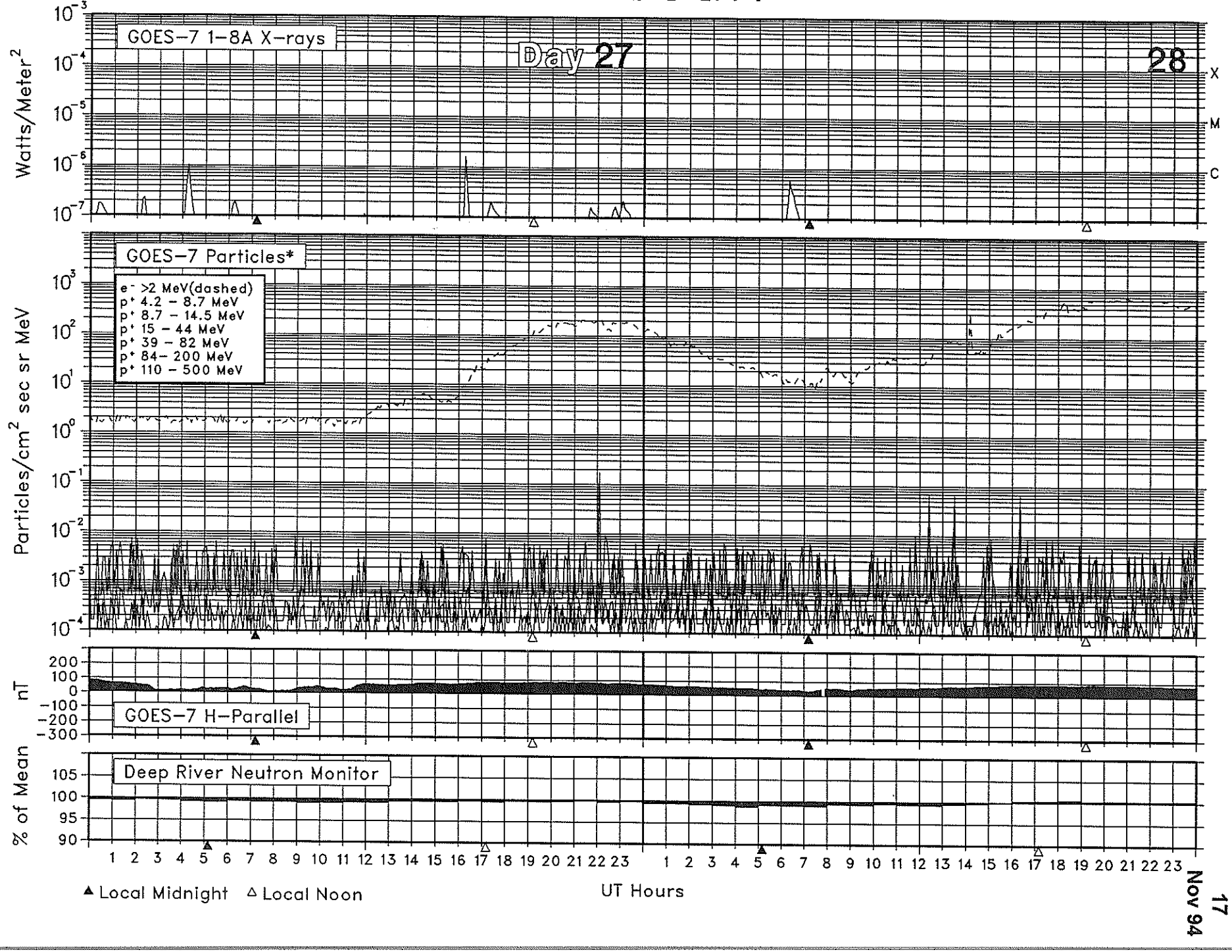

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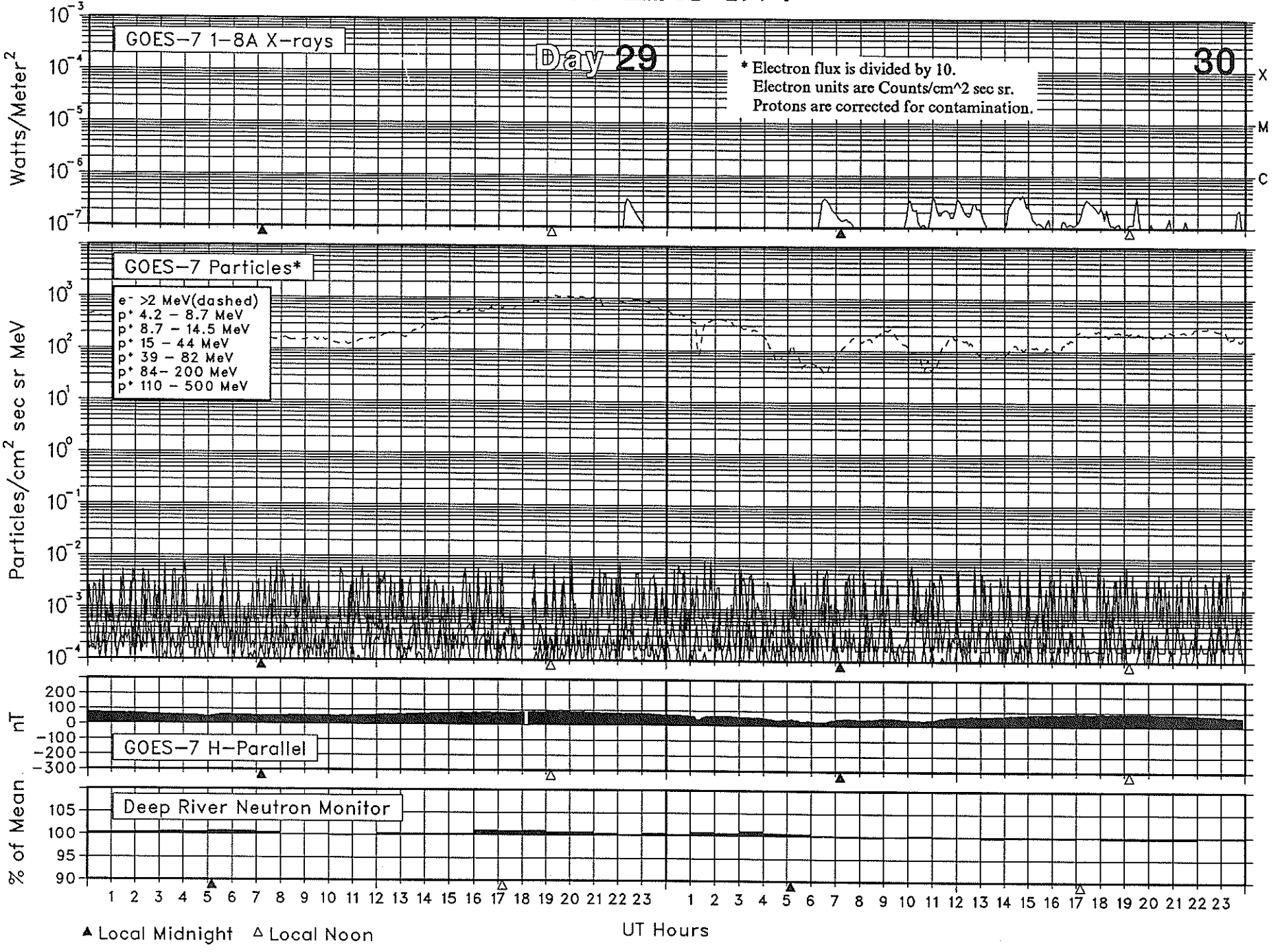


ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Geoalert Messages **NOVEMBER 1994**

Julian Day	Date of Issue	Date of Obser-vation	Wolf No.	10-cm Solar Flux	A-index	Location °Lat °Long	Flares Total	Flares M	Flares X	Date of Forecast	Region Forecast [1]	Geoadvice[1]
305	01	31	089	097	34	N14 W07	4	0	0	01	Q	SOL: Eruptive
						S08 W23	0	0	0	01	Q	MAG: Active
						S12 E06	1	0	0	01	Q	PROTON: Quiet
						S13 E46	0	0	0	01	Q	
						S18 W38	0	0	0	01	Q	
306	02	01	081	092	16	N13 W19	2	0	0	02	Q	SOL: Eruptive
						S09 W37	0	0	0	02	Q	MAG: Active
						S12 W08	0	0	0	02	Q	PROTON: Quiet
						S12 E34	0	0	0	02	Q	
						S16 W55	0	0	0	02	Q	
307	03	02	067	091	17	N13 W32	3	0	0	03	Q	SOL: Eruptive
						S13 W19	0	0	0	03	Q	MAG: Quiet
						S13 E22	0	0	0	03	Q	PROTON: Quiet
						S16 W68	0	0	0	03	Q	
308	04	03	053	087	8	N13 W46	0	0	0	04	Q	SOL: Quiet
						S12 W33	0	0	0	04	Q	MAG: Quiet
						S12 E08	0	0	0	04	Q	PROTON: Quiet
						S16 W84	0	0	0	04	Q	
309	05	04	041	084	19	N12 W58	0	0	0	05	Q	SOL: Quiet
						S12 W48	0	0	0	05	Q	MAG: Quiet
						S12 W06	0	0	0	05	Q	PROTON: Quiet
310	06	05	046	083	14	N10 W67	0	0	0	06	Q	SOL: Quiet
						S13 W61	0	0	0	06	Q	MAG: Quiet
						S13 W19	0	0	0	06	Q	PROTON: Quiet
						N12 E67	0	0	0	06	Q	
311	07	06	046	081	24	N11 W81	0	0	0	07	Q	SOL: Quiet
						S13 W74	0	0	0	07	Q	MAG: Quiet
						S13 W32	0	0	0	07	Q	PROTON: Quiet
						N12 E55	0	0	0	07	Q	
312	08	07	023	082	11	S14 W46	0	0	0	08	Q	SOL: Quiet
						N13 E42	0	0	0	08	Q	MAG: Quiet
						S13 W32	0	0	0	08	Q	PROTON: Quiet
313	09	08	033	080	3	S14 W59	0	0	0	09	Q	SOL: Quiet
						N12 E28	0	0	0	09	Q	MAG: Active
						S03 E75	1	0	0	09	Q	PROTON: Quiet
314	10	09	034	079	13	S15 W73	1	0	0	10	Q	SOL: Quiet
						N13 E15	0	0	0	10	Q	MAG: Active
						S03 E62	0	0	0	10	Q	PROTON: Quiet
315	11	10	045	080	15	N11 E02	0	0	0	11	Q	SOL: Quiet
						S05 E49	0	0	0	11	Q	MAG: Active
						S06 E36	0	0	0	11	Q	PROTON: Quiet
						S16 E42	0	0	0	11	Q	
316	12	11	045	079	6	N12 W12	0	0	0	12	Q	SOL: Quiet
						S02 E35	0	0	0	12	Q	MAG: Quiet
						S06 E23	0	0	0	12	Q	PROTON: Quiet
						N05 E07	0	0	0	12	Q	

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Geoalert Messages NOVEMBER 1994

Julian Day	Date of Issue	Date of Obser-vation	Wolf No.	10-cm Solar Flux	A-index	Location °Lat	Location °Long	Flares Total	Flares M	Flares X	Date of Forecast	Region Forecast [1]	Geoadvice[1]
317	13	12	069	080	4	N12	W24	0	0	0	13	Q	SOL: Quiet
						S02	E25	0	0	0	13	Q	MAG: Quiet
						S14	E13	0	0	0	13	Q	PROTON: Quiet
						N04	W09	0	0	0	13	Q	
						S21	E02	0	0	0	13	Q	
						N07	E60	0	0	0	13	Q	
318	14	13	011	081	4	N06	E49	0	0	0	14	Q	SOL: Quiet
						S02	E25	0	0	0	14	Q	MAG: Quiet
						S14	E13	0	0	0	14	Q	PROTON: Quiet
319	15	14	011	079	6	N06	E34	0	0	0	15	Q	SOL: Quiet
						S02	E25	0	0	0	15	Q	MAG: Quiet
						S14	E13	0	0	0	15	Q	PROTON: Quiet
320	16	15	011	079	8	S12	W33	0	0	0	16	Q	SOL: Quiet
						S02	E25	0	0	0	16	Q	MAG: Quiet
						S14	E13	0	0	0	16	Q	PROTON: Quiet
321	17	16	036	079	2	N07	E08	0	0	0	17	Q	SOL: Quiet
						S11	W46	0	0	0	17	Q	MAG: Quiet
						S06	W16	0	0	0	17	Q	PROTON: Quiet
322	18	17	029	079	4	S11	W61	0	0	0	18	Q	SOL: Quiet
						S05	W43	0	0	0	18	Q	MAG: Quiet
						S06	W16	0	0	0	18	Q	PROTON: Quiet
323	19	18	028	080	5	S12	W73	2	0	0	19	Q	SOL: Quiet
						S06	W57	0	0	0	19	Q	MAG: Quiet
						S06	W16	0	0	0	19	Q	PROTON: Quiet
324	20	19	023	078	17	S14	W84	0	0	0	20	Q	SOL: Quiet
						S07	W72	0	0	0	20	Q	MAG: Quiet
						S06	W16	0	0	0	20	Q	PROTON: Quiet
325	21	20	022	079	25	S05	W86	1	0	0	21	Q	SOL: Quiet
						N12	E79	0	0	0	21	Q	MAG: Quiet
						S06	W16	0	0	0	21	Q	PROTON: Quiet
326	22	21	011	078	5	N13	E68	0	0	0	22	Q	SOL: Quiet
						N12	E79	0	0	0	22	Q	MAG: Quiet
						S06	W16	0	0	0	22	Q	PROTON: Quiet
327	23	22	011	076	3	N13	E54	0	0	0	23	Q	SOL: Quiet
						N12	E79	0	0	0	23	Q	MAG: Quiet
						S06	W16	0	0	0	23	Q	PROTON: Quiet
328	24	23	012	078	1	N14	E41	0	0	0	24	Q	SOL: Quiet
						N12	E79	0	0	0	24	Q	MAG: Quiet
						S06	W16	0	0	0	24	Q	PROTON: Quiet
329	25	24	012	079	3	N13	E29	1	0	0	25	Q	SOL: Quiet
						N12	E79	0	0	0	25	Q	MAG: Quiet
						S06	W16	0	0	0	25	Q	PROTON: Quiet

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Geoalert Messages NOVEMBER 1994

Julian Day	Date of Issue	Date of Obser-vation	Wolf No.	10-cm Solar Flux	A-index	Location °Lat °Long	Flares Total	Flares M	Flares X	Date of Forecast	Region Forecast [1]	Geoadvice[1]
330	26	25	041	082	1	N14 E17	0	0	0	26	Q	SOL: Quiet
						S17 W00	0	0	0	26	Q	MAG: Active
						S15 E15	0	0	0	26	Q	PROTON: Quiet
331	27	26	042	083	20	N13 E02	0	0	0	27	Q	SOL: Eruptive
						S17 W11	7	0	0	27	Q	MAG: Active
						S15 E15	0	0	0	27	Q	PROTON: Quiet
332	28	27	033	080	23	S17 W25	4	0	0	28	E	SOL: Eruptive
						S17 W11	7	0	0	28	Q	MAG: Active
						S15 E15	0	0	0	28	Q	PROTON: Quiet
333	29	28	032	080	11	S17 W38	2	0	0	29	E	SOL: Eruptive
						S17 W25	0	0	0	29	Q	MAG: Quiet
						S15 E15	0	0	0	29	Q	PROTON: Quiet
334	30	29	028	080	6	S17 W50	1	0	0	30	Q	SOL: Quiet
						S16 W40	0	0	0	30	Q	MAG: Quiet
						S15 E15	0	0	0	30	Q	PROTON: Quiet

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

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

Magnetic Geoadvice

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

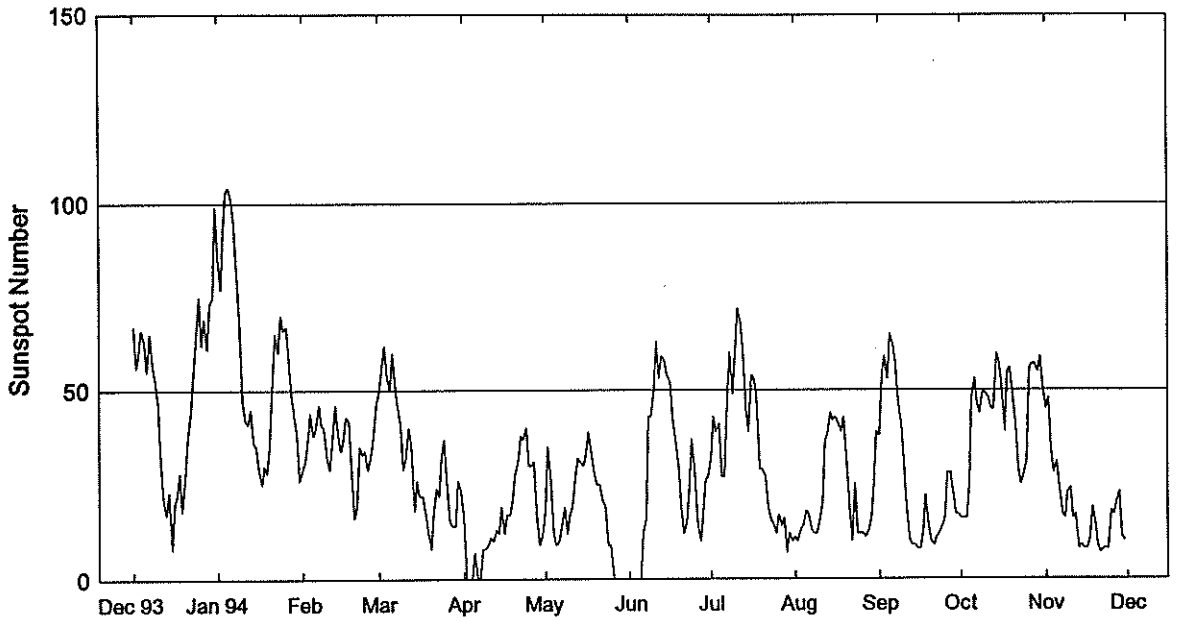
Proton Geoadvice

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

STRATWARM ALERTS

No Stratwarms recorded

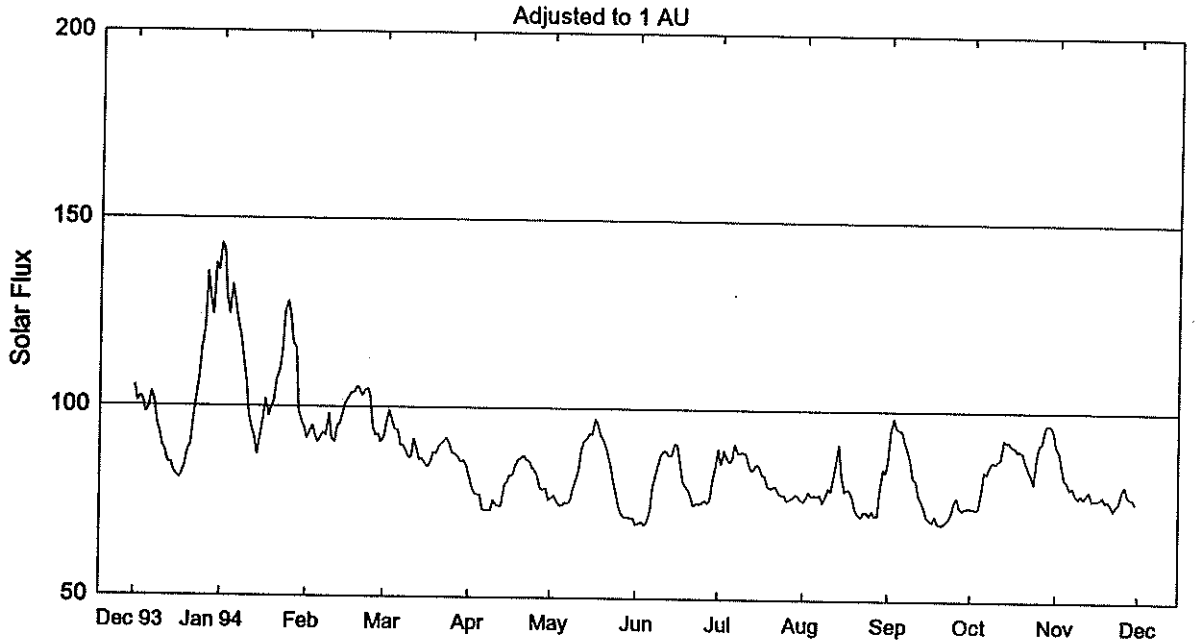
International Relative Sunspot Numbers
Dec 1993 - Nov 1994



Day	Dec 93	Jan 94	Feb	Mar	Apr	May	Jun	Jul*	Aug*	Sep*	Oct*	Nov*
1	67	86	29	49	17	18	0	32	11	38	16	45
2	56	77	31	56	0	35	0	43	10	53	16	48
3	60	93	38	62	0	26	0	39	13	59	16	34
4	66	103	44	54	0	12	0	41	14	53	25	28
5	63	104	38	50	7	9	0	27	18	65	48	31
6	55	101	40	60	0	10	12	27	17	62	53	24
7	65	94	46	52	0	14	16	47	13	57	46	17
8	57	81	41	46	8	19	43	60	12	47	44	16
9	53	66	40	41	8	12	43	49	12	41	50	23
10	46	47	32	29	9	17	50	60	15	31	49	24
11	31	42	29	32	11	19	63	72	20	19	48	16
12	21	41	36	40	10	27	53	68	36	10	45	17
13	17	45	46	36	13	32	59	59	39	9	45	8
14	23	36	39	18	12	31	58	45	44	9	60	9
15	8	35	34	26	19	30	54	39	42	8	57	8
16	20	29	37	22	12	33	52	54	43	8	51	8
17	22	25	43	22	17	39	42	53	41	12	39	10
18	28	30	42	18	17	33	37	48	39	22	55	19
19	18	28	28	13	21	28	30	29	43	14	56	15
20	27	35	16	8	28	25	19	29	30	10	49	9
21	37	53	19	17	31	25	12	27	19	9	41	7
22	44	65	35	24	38	21	15	19	10	11	29	8
23	54	60	33	22	37	19	24	16	25	12	25	8
24	63	70	34	32	40	9	37	14	12	14	28	8
25	75	66	29	37	30	9	28	12	12	16	31	18
26	62	67	32	24	30	0	15	17	12	28	56	17
27	69	58	38	15	31	0	10	14	11	28	57	20
28	61	49	46	14	15	0	15	16	13	23	57	23
29	73	43		14	9	0	26	7	16	17	55	11
30	75	38		26	12	0	27	12	25	17	59	10
31	99	26		24		0		10	39		51	
Mean	48.9	57.8	35.5	31.7	16.1	17.8	28.0	35.0	22.8	26.7	43.8	18.0

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

Penticton 2800 MHz (10.7cm) Solar Flux
Dec 1993 - Nov 1994



Day	Dec 93	Jan 94	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	105.6	143.4	91.7	92.4	82.4	76.3	69.6	89.7	76.2	87.3	74.7	90.9
2	101.3	141.4	93.5	96.3	79.3	77.1	69.9	85.6	77.2	94.9	74.6	90.0
3	102.6	128.7	95.1	99.2	77.4	75.6	70.3	89.3	78.7	98.2	74.3	85.9
4	101.6	124.6	92.7	96.3	77.2	74.4	69.5	87.4	77.4	95.8	74.7	82.6
5	98.3	132.4	90.6	94.2	77.2	74.4	70.3	86.2	77.8	95.1	79.4	82.0
6	99.9	127.7	92.2	94.1	73.3	75.3	72.7	87.1	77.5	95.0	84.2	79.7
7	103.8	122.1	93.3	90.0	73.0	75.2	79.4	91.1	77.9	92.1	83.7	80.4
8	101.9	118.9	92.6	89.9	72.9	75.8	82.9	88.7	75.9	89.6	86.0	78.6
9	95.4	113.1	98.3	88.7	72.9	78.8	85.5	88.8	77.4	87.3	86.9	77.4
10	93.2	106.5	91.8	86.8	75.7	81.4	88.0	88.9	79.7	82.8	86.6	78.5
11	89.7	97.8	90.7	87.0	74.6	83.6	89.1	88.5	78.7	82.0	87.2	77.5
12	88.1	94.6	95.1	91.7	74.2	89.2	89.0	85.7	82.9	78.2	87.7	78.5
13	85.1	91.9	95.4	89.1	74.3	91.4	87.7	84.1	86.7	76.5	92.7	79.5
14	85.1	87.3	98.9	86.2	79.9	92.1	88.0	84.6	91.2	74.8	92.1	77.0
15	82.8	92.6	101.3	86.5	80.6	93.4	91.0	85.7	83.5	72.3	92.2	77.2
16	81.9	97.0	102.3	85.3	82.3	93.3	90.8	85.1	78.8	71.6	90.9	77.2
17	81.1	102.0	103.9	84.3	82.5	97.2	86.6	83.0	79.5	71.0	91.0	77.3
18	82.4	97.5	103.9	85.9	84.9	95.8	80.9	82.7	79.3	72.5	89.8	78.1
19	84.2	99.5	105.6	88.3	86.2	92.7	79.8	80.1	77.1	70.8	89.9	76.6
20	88.1	101.6	105.2	87.9	87.0	91.9	78.9	79.4	74.0	70.3	89.3	76.9
21	89.9	107.3	103.1	90.0	87.6	89.9	76.8	79.8	72.7	70.4	87.0	76.0
22	96.6	109.5	104.4	90.5	86.3	86.7	74.6	80.1	72.2	71.2	84.7	74.5
23	101.6	114.6	105.1	91.2	86.1	83.6	75.5	78.2	73.5	71.8	83.3	75.6
24	107.5	125.1	102.9	92.1	84.3	79.9	75.2	77.7	73.5	73.3	81.3	76.6
25	115.2	128.1	94.8	90.4	83.8	76.1	75.5	77.8	72.5	76.6	88.5	79.4
26	120.5	123.9	92.6	88.1	82.0	73.4	76.3	76.3	73.7	77.4	91.5	81.0
27	135.8	116.8	93.0	88.0	79.0	72.1	75.4	76.6	72.5	75.0	91.9	78.3
28	129.2	115.7	90.8	87.3	78.4	71.4	76.4	77.1	72.5	74.2	96.1	77.6
29	124.4	98.9		85.8	78.9	71.4	81.4	78.0	79.1	74.7	96.9	77.4
30	138.0	96.1		86.1	76.0	71.3	85.4	77.6	84.7	74.7	96.4	76.1
31	136.2	94.7		84.9		71.1		76.8	83.8		95.2	
Mean	101.5	111.3	97.2	89.5	79.7	81.7	79.7	83.2	78.0	79.9	87.1	79.1

DAILY SOLAR INDICES

November 1994

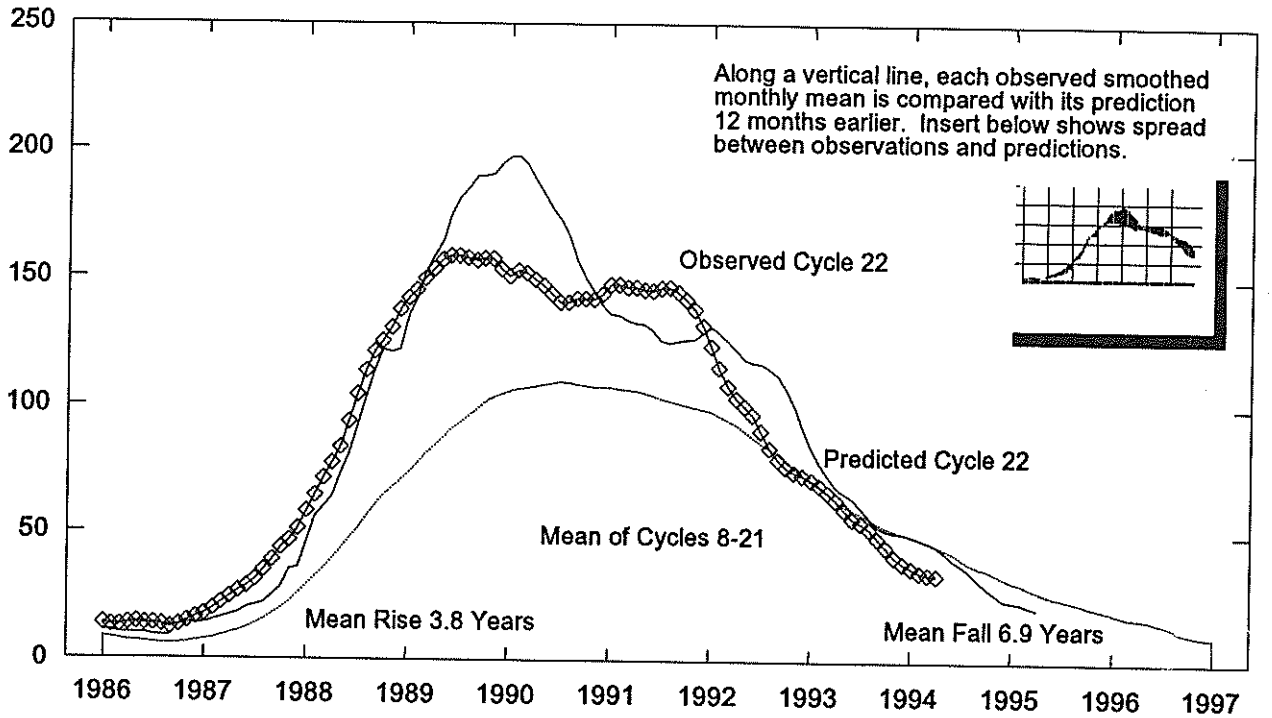
Day	Day of Year	Bartels Cycle Day	Sunspot Numbers Int	Sunspot Numbers Amer	Obs Flux Penticton (2800)	Solar Flux Adjusted to 1 Astronomical Unit — LEAR (15400)	LEAR (8800)	LEAR (4995)	Pentic (2800)	LEAR (2695)	LEAR (1415)	LEAR (610)	LEAR (410)	LEAR (245)
1	305	10	45	48	92.3	529	229	140	90.9	91	70	47	26	19
2	306	11	48	43	91.4	543	226	138	90.0	88	67	47	24	13
3	307	12	34	40	87.3	522	226	138	85.9	87	66	45	23	12
4	308	13	28	30	84.0	--	--	--	82.6	--	--	--	--	--
5	309	14	31	34	83.4	531	224	133	82.0	81	61	44	26	11
6	310	15	24	26	81.1	524	213	131	79.7	79	58	41	23	11
7	311	16	17	18	81.9	518	221	132	80.4	77	57	41	23	10
8	312	17	16	20	80.1	523	216	131	78.6	77	59	43	23	11
9	313	18	23	23	78.9	532	218	129	77.4	76	56	43	22	11
10	314	19	24	24	80.0	535	223	128	78.5	78	57	42	20	11
11	315	20	16	14	79.0	528	219	129	77.5	75	58	44	23	11
12	316	21	17	15	80.2	--	--	--	78.5	--	--	--	--	--
13	317	22	8	7	81.2	535	177	117	79.5	74	57	45	24	12
14	318	23	9	6	78.7	526	213	130	77.0	73	57	44	24	12
15	319	24	8	0	79.0	525	221	129	77.2	73	56	44	24	11
16	320	25	8	10	79.0	522	214	127	77.2	74	56	43	23	11
17	321	26	10	19	79.1	528	217	128	77.3	74	56	39	20	10
18	322	27	19	18	80.0	527	222	129	78.1	75	56	36	23	12
19	323	1	15	12	78.4	539	215	128	76.6	74	55	33	24	12
20	324	2	9	8	78.8	527	222	129	76.9	74	54	35	27	12
21	325	3	7	9	77.8	528	218	127	76.0	73	54	35	25	11
22	326	4	8	9	76.3	524	218	126	74.5	71	53	34	25	12
23	327	5	8	9	77.5	523	215	125	75.6	70	52	34	24	11
24	328	6	8	9	78.6	524	209	125	76.6	74	54	33	24	12
25	329	7	18	17	81.5	528	222	128	79.4	75	55	33	25	12
26	330	8	17	22	83.2	528	221	130	81.0	76	57	35	25	13
27	331	9	20	21	80.4	528	221	130	78.3	77	57	36	22	13
28	332	10	23	21	79.7	531	221	130	77.6	76	57	34	26	12
29	333	11	11	14	79.6	526	221	128	77.4	74	56	35	26	11
30	334	12	10	12	78.3	534	220	128	76.1	74	55	35	21	10
MEAN			18.0	18.6	80.9	528	217	129	79.1	76	57	39	23	11

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

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

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

Cycle 22 Smoothed Sunspot Numbers: Observed and Predicted



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

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1987	18	20	22	24	26	28	31	35	39	44	47	51	32
1988	58	65	71	78	84	94	104	114	121	125	130	138	99
1989	142	145	150	154	157	158	158	158	157	157	158	154	154
1990	151	153	152	149	147	144	141	140	142	142	142	144	146
1991	148	148	147	146	146	145	146	147	145	142	138	132	144
1992	124	115	108	103	100	97	91	84	80	76	74	73	94
1993	71	69	67	64	60	56	55	52	48	45	41	38	56
1994	37	35	34	34	33	32	30	28	26	25	24	23	30
( )						(3)	(7)	(9)	(10)	(11)	(14)	(15)	(6)
1995	23	22	21	20	19	18	18	17	17	17	16	15	19
( )	(16)	(17)	(17)	(17)	(17)	(17)	(17)	(18)	(17)	(17)	(16)	(15)	(17)
1996	13	12	11	11	11	10	9	9	8	8	8	8	10
( )	(15)	(16)	(16)	(17)	(17)	(16)	(15)	(15)	(14)	(14)	(14)	(13)	(15)

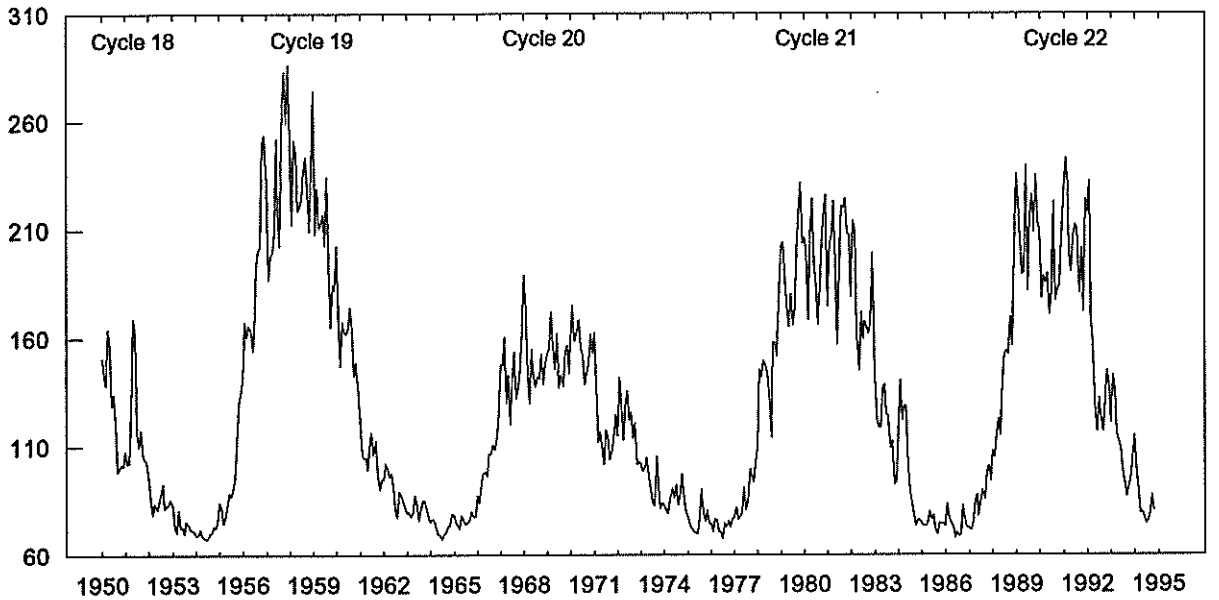
Solar Cycle 22 — Min, Max, and Predictions

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

Observed and Predicted Numbers. For the end of Cycle 21, and the rise and decline of Cycle 22, the table above lists observed smoothed sunspot numbers up to the one that includes the most recent monthly mean. We based these smoothed values on final monthly means through Jun 1994 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 May 1995 prediction. There exists a 90% chance that in May1995, the actual smoothed number will fall somewhere between 2 and 36.

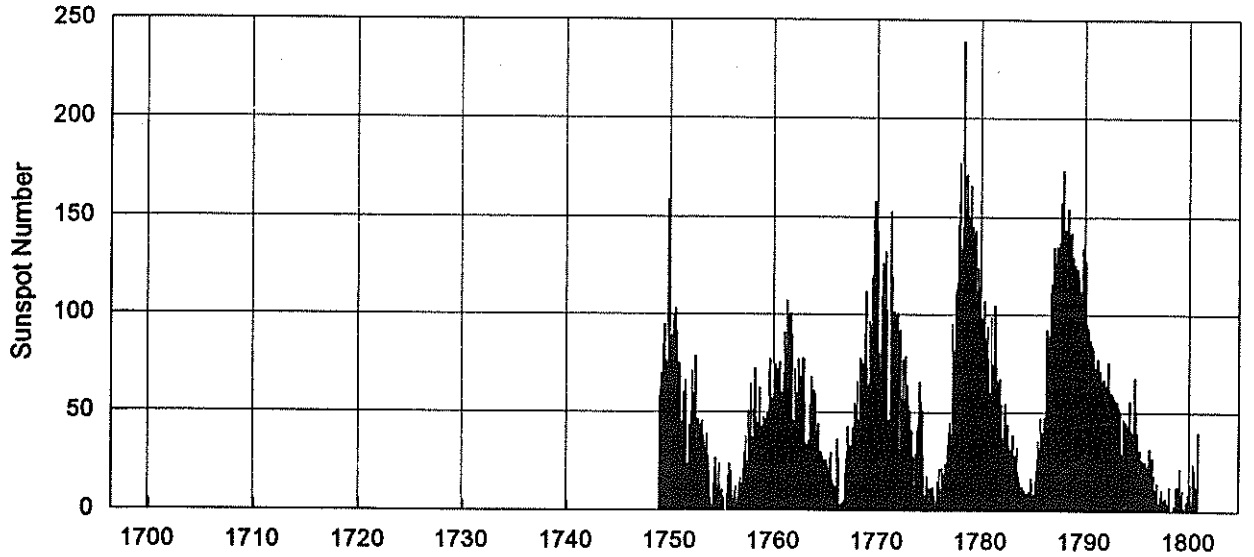
Points to Ponder. The McNish-Lincoln prediction method generates useful estimates of smoothed, monthly mean sunspot numbers for no more than 12 months ahead. Beyond 12 months, the predictions regress toward the mean of all 14 cycles of observations used in the computation. Moreover, the method remains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

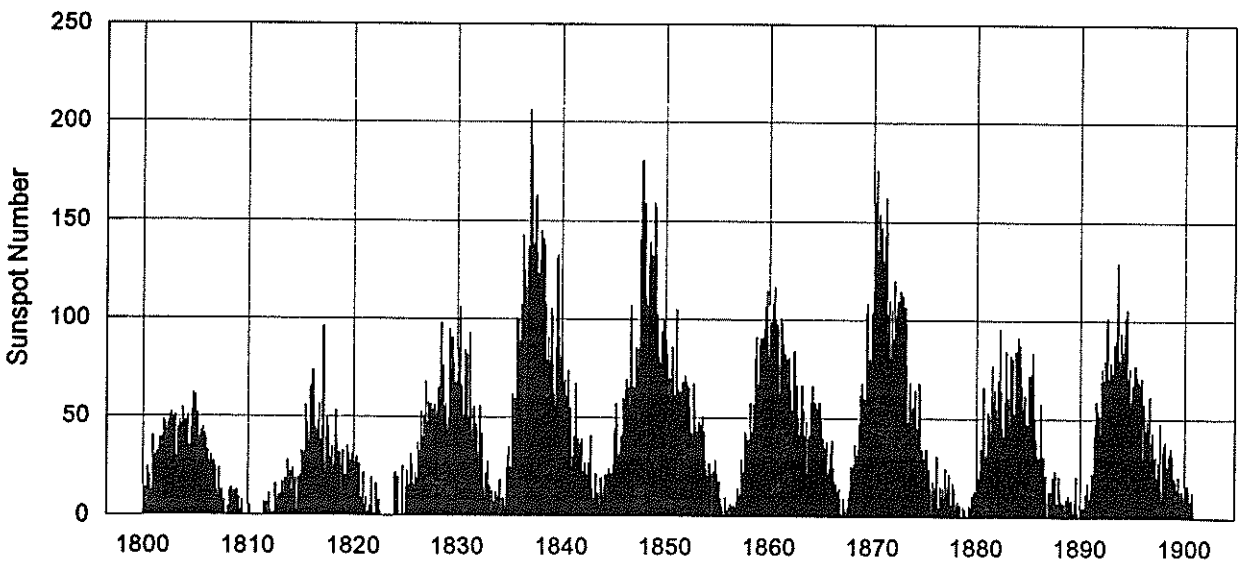
Monthly Mean 2800 MHz Solar Flux (Observed)
Jan 1950 - Nov 1994

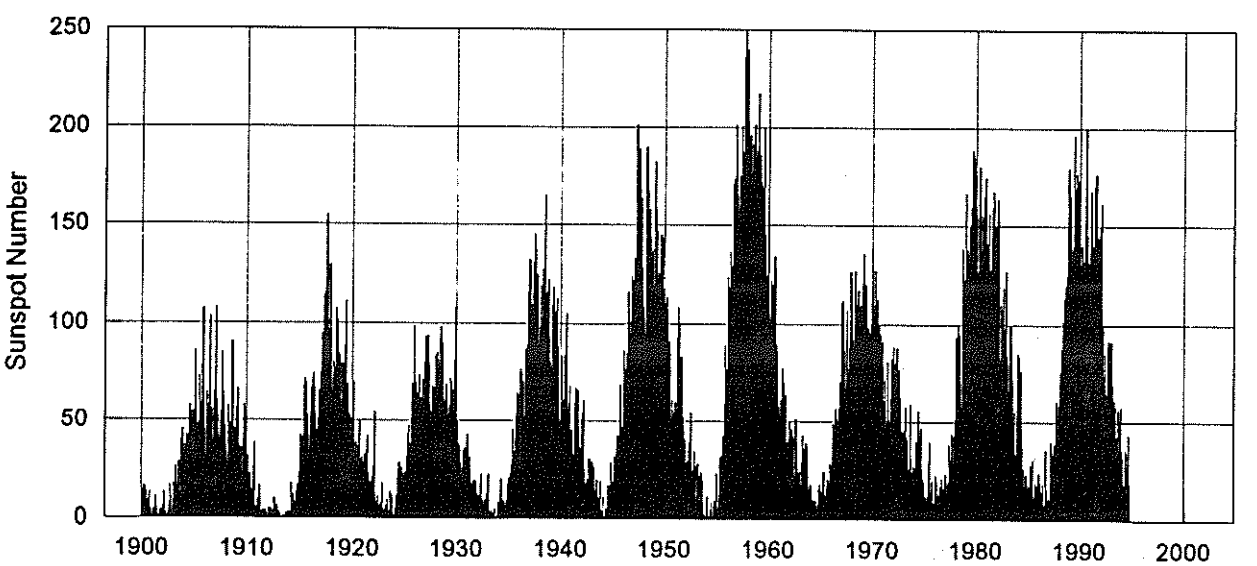


Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1950	150.7	143.3	137.8	164.3	157.1	128.7	134.1	120.9	98.6	99.9	101.9	101.1	128.2
1951	107.9	101.9	102.5	127.1	168.6	161.7	116.3	109.8	117.8	106.0	104.4	102.4	118.9
1952	95.4	86.2	78.5	84.0	80.9	84.8	88.8	93.3	81.5	82.8	83.4	85.7	85.4
1953	83.2	72.8	70.4	81.0	72.5	73.0	69.8	75.5	74.3	71.9	71.4	70.8	73.9
1954	68.7	69.2	71.9	68.7	68.0	67.3	67.7	69.9	70.1	73.2	72.6	75.5	70.2
1955	84.3	82.0	74.8	77.3	82.8	88.8	87.3	90.7	91.1	111.8	130.0	134.6	95.0
1956	141.2	167.2	160.6	165.9	163.4	154.0	162.8	193.8	200.9	201.6	250.4	253.7	184.6
1957	231.2	186.7	197.8	200.0	208.5	252.1	218.0	202.3	267.1	283.1	259.2	286.5	232.7
1958	251.5	212.2	251.5	245.9	218.6	220.5	224.1	237.0	243.5	228.0	209.2	238.2	231.7
1959	274.5	207.9	229.2	210.6	212.7	217.5	203.0	234.2	194.3	165.1	184.8	182.2	209.7
1960	202.6	170.9	146.8	167.6	162.7	161.9	163.9	174.4	164.5	142.3	148.9	138.1	162.0
1961	122.0	106.4	104.8	105.0	99.3	109.9	116.5	106.2	112.7	96.7	90.3	94.8	105.4
1962	94.9	102.2	100.3	96.2	97.9	91.0	80.7	77.3	89.5	87.8	84.9	82.0	90.4
1963	79.5	79.7	77.8	79.5	87.8	83.5	75.9	80.9	85.1	85.1	81.7	78.4	81.2
1964	75.4	76.8	75.9	72.6	69.5	69.0	67.0	69.3	70.2	73.4	73.7	78.8	72.6
1965	78.6	75.2	74.1	72.0	78.2	77.0	74.3	74.8	76.6	80.2	77.7	77.8	76.4
1966	87.9	84.2	90.3	97.2	98.5	96.3	106.7	106.6	110.9	108.6	113.3	124.6	102.1
1967	147.7	147.0	160.6	129.9	143.0	120.2	140.3	153.7	132.1	136.1	145.3	163.0	143.2
1968	189.1	173.2	142.6	129.5	154.9	142.3	137.2	142.2	141.0	152.5	138.5	148.4	149.3
1969	152.7	155.2	172.3	155.5	145.4	162.2	136.6	143.0	137.3	154.0	156.7	143.6	151.2
1970	158.3	175.4	158.4	162.0	168.4	154.9	152.0	138.2	143.2	148.3	162.0	152.8	156.2
1971	162.6	137.8	111.9	116.7	109.9	101.7	117.4	114.1	104.0	107.2	114.0	124.5	118.5
1972	114.8	141.8	128.5	112.9	129.6	135.4	122.0	125.7	113.6	121.1	101.6	102.9	120.8
1973	102.2	98.7	100.4	105.0	97.0	91.2	84.5	82.9	105.6	87.7	81.5	84.2	93.4
1974	83.1	80.9	79.2	86.1	90.6	86.3	92.5	83.0	87.8	97.6	90.3	81.1	86.5
1975	77.5	74.2	72.4	70.7	70.1	69.7	77.2	90.4	79.6	75.7	80.8	74.6	76.1
1976	74.7	70.5	76.7	76.3	70.6	70.6	67.5	74.8	73.1	75.9	72.9	76.7	73.4
1977	77.4	82.3	76.6	77.6	79.6	91.5	81.1	84.3	99.9	96.9	93.7	102.1	86.9
1978	109.6	145.4	141.8	149.4	146.5	142.2	131.1	114.0	157.9	158.2	151.5	175.5	143.6
1979	203.0	204.1	185.8	173.8	165.2	180.3	165.9	172.7	200.2	217.9	231.7	203.5	192.0
1980	206.2	200.0	168.1	207.9	224.0	193.2	184.8	166.2	183.9	204.2	218.1	225.8	198.5
1981	174.6	204.5	205.3	223.2	194.6	156.9	191.9	220.6	219.5	224.3	207.8	207.8	202.6
1982	179.0	214.2	210.5	161.8	144.7	171.9	159.6	167.9	165.3	161.9	167.4	199.4	175.3
1983	142.3	122.6	118.6	118.9	137.1	138.6	125.0	124.4	109.0	112.4	92.5	93.4	119.6
1984	116.1	140.6	122.0	128.7	128.3	100.3	89.3	83.7	78.1	73.5	76.3	75.9	101.1
1985	74.5	73.7	73.3	75.1	80.2	76.1	78.7	71.5	69.5	74.7	74.2	74.8	74.7
1986	73.2	83.6	77.0	75.1	72.6	67.6	70.2	68.4	68.7	83.0	77.1	72.6	74.1
1987	72.5	71.5	74.0	84.9	87.8	77.9	84.2	90.0	86.1	98.1	101.2	94.4	85.3
1988	108.0	105.0	114.9	122.7	115.2	139.4	152.7	154.2	152.5	169.8	156.2	199.8	141.0
1989	235.4	222.4	205.1	189.6	190.1	239.6	181.9	217.1	225.9	208.7	235.1	213.0	213.7
1990	210.1	178.3	188.8	185.3	189.7	170.9	180.7	222.6	177.4	182.0	184.3	204.9	189.6
1991	229.4	243.0	230.0	198.8	190.3	206.8	212.0	210.3	180.6	201.3	172.0	223.9	208.1
1992	217.6	232.1	171.3	158.5	125.4	116.7	132.2	122.1	116.8	130.8	145.2	139.1	150.7
1993	121.0	142.6	136.4	115.9	112.3	109.3	99.0	93.7	87.0	100.3	95.9	104.8	109.7
1994	115.0	99.6	90.4	79.1	79.9	77.3	74.5	76.1	79.0	87.7	80.9		85.4

MONTHLY Sunspot Numbers: Jan 1749 - Nov 1994







National Geophysical Data Center
NOAA, United States Department of Commerce

325 Broadway, Mail Code E/GC2
Boulder, Colorado 80303-3328 USA

Hα SOLAR FLARES

NOVEMBER 1994

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
GOES	01	0116	0120	0124						8		B 1.4						
SVTO		0629	0630	0634	N14	W05	7794	10	31.9	5	SF		3	E		10		
GOES		0647	0653	0709						22		B 3.2						
HOLL		2019	2022	2037	N14	W16	7794	10	31.6	18	SF	B 3.0	3	E		31		
GOES		2154	2202	2208						14		B 3.7						
GOES	02	0314	0319	0325						11		B 1.9						
GOES		0542	0545	0549						7		B 1.4						
GOES		0636	0641	0648						12		B 3.1						
SVTO		1054	1100	1121	N13	W26	7794	10	31.5	27	SF	B 4.6	3	E		62		
RAMY		1058E	1059U	1125	N17	W23	7794	10	31.7	27D	SN		3	E		85		F
RAMY		1555	1555	1558	N17	W26	7794	10	31.7	3	SF	B 1.3	3	E		13		F
RAMY		2015	2018	2052D	N17	W29	7794	10	31.6	37D	SF	B 8.3	3	E		66		F
GOES		2120	2132	2145						25		B 5.8						
GOES	03	0123	0130	0134						11		B 2.5						
GOES		0355	0359	0401						6		B 1.3						
GOES		0540	0543	0548						8		B 2.3						
GOES		1328	1332	1344						16		B 1.1						
GOES		1456	1459	1501						5		B 1.1						
GOES		2135	2145	2158						23		B 5.1						
GOES	04	0005	0013	0018						13		B 8.8						
GOES		0653	0701	0717						24		B 1.3						
GOES		1238	1243	1246						8		B 1.3						
GOES		2011	2017	2021						10		B 1.7						
GOES	05	1523	1526	1528						5		B 1.2						
GOES	07	2151	2208	2219						28		B 2.5						
GOES	08	0439	0444	0446						7		B 5.5						
GOES		0641	0646	0649						8		C 1.3						
GOES		0820	0826	0830						10		C 1.0						
GOES		1153	1202	1209						16		B 1.6						
GOES		1215	1218	1220						5		C 1.3						
GOES		1656	1702	1706						10		B 2.3						
RAMY		1848	1849	1909D	S01	E78		11	14.6	21D	SF	B 1.4	3	E		13		
SVTO	09	1439	1445	1450	S12	W70	7798	11	4.3	11	SF		2	E		36		H
HOLL		1440	1446	1449	S13	W70	7798	11	4.3	9	SF	B 1.2	3	E		23		H
SVTO	13	1141	1157U	1320D	N15	E10		11	14.2	99D	SF		3	E		38		UF
RAMY		1209	1226	1342	N15	E09		11	14.2	93	SF	C 1.2	3	E		32		UF
GOES	18	0747	0754	0816						29		B 1.2						
GOES		0847	0853	0900						13		B 1.4						
SVTO		1058	1104	1121D	S13	W67	7807	11	13.4	23D	SF		3	E		27		
RAMY		1509	1521	1539	S12	W68	7807	11	13.5	30	SF		3	E		15		
HOLL		1532	1534	1541	S11	W68	7807	11	13.5	9	SF		3	E		12		H
GOES	19	0457	0502	0507						10		B 2.9						
GOES	20	0159	0206	0209						10		B 1.3						
GOES		0438	0442	0449						11		B 4.3						
GOES		0710	0715	0720						10		B 1.5						
SVTO		1149	1152	1156	S07	W84	7809	11	14.2	7	SF		3	E		35		H
GOES		1714	1742	1757						43		B 1.5						
GOES		2234	2237	2239						5		B 1.0						
GOES	21	0441	0445	0447						6		B 1.3						
GOES		0623	0636	0649						26		B 2.4						
GOES	24	0149	0156	0206						17		B 1.6						
RAMY		1218	1221	1228	N15	E37	7810	11	27.3	10	SF		3	E		12		
GOES	25	2044	2053	2107						23		B 1.7						
SVTO	26	0923	0930	0952	S17	W02	7811	11	26.2	29	SF		3	E		65		F

Hα S O L A R F L A R E S

NOVEMBER 1994

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
LEAR	26	0927	0927	0942	S16	W05	7811	11	26.0	15	SF	C 1.2	3	E		20		F
RAMY		1515	1515	1523	S16	W10	7811	11	25.9	8	SF	B 1.9	3	E		12		
HOLL		1515	1516	1523	S17	W12	7811	11	25.7	8	SF		2	E		16		
HOLL		1543	1549	1551	S17	W10	7811	11	25.9	8	SF	B 3.4	3	E		10		F
RAMY		1547	1550	1552	S16	W06	7811	11	26.2	5	SF		3	E		12		
RAMY		1644E	1649	1657D	S17	W10	7811	11	25.9	13D	SF		3	E		92		F
HOLL		1645	1648	1657	S17	W11	7811	11	25.9	12	SF	C 2.0	3	E		61		F
HOLL		1743	1743	1747	S16	W13	7811	11	25.7	4	SF	B 2.5	3	E		19		
PALE		1851E	1852U	1906D	S17	W15	7811	11	25.6	15D	SF		2	E		23		
RAMY		1853	1854	1856D	S17	W14	7811	11	25.7	3D	SF		3	E		10		F
HOLL		1902	1902	1905	S17	W13	7811	11	25.8	3	SF	B 8.7	3	E		22		
PALE		2018E	2020U	2035D	S17	W16	7811	11	25.6	17D	SF		3	E		29		FH
HOLL		2018	2021	2032	S16	W16	7811	11	25.6	14	SN	C 2.1	3	E		90		H
GOES		2302	2306	2309						7		B 1.2						
GOES		2345	2350	2356						11		B 2.5						
GOES	27	0015	0024	0035						20		B 1.8						
GOES		0215	0219	0223						8		B 3.6						
LEAR		0415	0415	0421	S14	W20	7811	11	25.7	6	SF	C 1.2	3	E		14		
GOES		0607	0614	0623						16		B 2.1						
GOES		1455	1619	1621						86		B 8.8						
RAMY		1614	1617	1633	S16	W26	7811	11	25.7	19	1N	C 2.2	4	E		169		EH
RAMY		1719	1719	1724	S16	W24	7811	11	25.9	5	SF	B 2.2	3	E		12		F
GOES		1914	1918	1923						9		B 1.1						
GOES		2136	2141	2147						11		B 1.6						
GOES		2240	2245	2250						10		B 1.8						
HOLL		2303	2305	2312	S17	W21	7811	11	26.4	9	SF	B 2.2	3	E		16		
LEAR	28	0619	0621	0625	S15	W28	7811	11	26.1	6	SF	B 7.2	3	E		13		F
SVTO		1030	1032	1042	S18	W34	7811	11	25.8	12	SF		3	E		19		
HOLL	29	2216	2217	2240	S16	W51	7811	11	26.0	24	SF	B 3.5	3	E		31		F
GOES	30	0619	0632	0652						33		B 3.7						
SVTO		0906	1005U	1129	S18	W60	7811	11	25.8	143	SN		2	E		45		H
LEAR		0957	1005	1010	S15	W61	7811	11	25.8	13	SF		3	E		15		F
SVTO		1058	1101	1136	N14	W44	7810	11	27.1	38	SF	B 4.3	3	E		62		F
SVTO		1142	1205	1228	S18	W61	7811	11	25.8	46	SF	B 3.8	3	E		24		H
RAMY		1155	1205	1219	S17	W61	7811	11	25.9	24	SF		3	E		45		
RAMY		1223	1235	1335	S17	W61	7811	11	25.9	72	SF		3	E		19		
SVTO		1231	1234	1249	S18	W61	7811	11	25.9	18	SF		3	E		10		H
SVTO		1250	1302U	1311	S18	W61	7811	11	25.9	21	SF		3	E		18		H
RAMY		1447	1448	1454	S17	W62	7811	11	25.9	7	SF	B 4.5	3	E		34		
RAMY		1503	1504	1518	S17	W63	7811	11	25.8	15	SF		3	E		17		
GOES		1623	1629	1634						11		B 1.6						
RAMY		1803	1803	1807	S18	W65	7811	11	25.8	4	SF		3	E		13		
HOLL		1803	1803	1807	S17	W66	7811	11	25.7	4	SF	B 3.2	3	E		15		
RAMY		1929	1930	1937	S18	W66	7811	11	25.8	8	SF	B 7.4	3	E		20		
HOLL		1930	1931	1934	S17	W66	7811	11	25.8	4	SF		3	E		19		
RAMY		2007	2008	2017	S17	W66	7811	11	25.8	10	SF	B 1.4	3	E		16		
HOLL		2007	2009	2015	S17	W66	7811	11	25.8	8	SF		3	E		20		
GOES		2122	2125	2127						5		B 1.2						
GOES		2130	2134	2136						6		B 2.2						
GOES		2326	2329	2332						6		B 1.0						

S O L A R R A D I O E M I S S I O N
Selected Fixed Frequency Events

NOVEMBER 1994

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
23	2695	SVTO	49 GB	0859.0	0903.0	901.0	53000.0			QL=4 ST=1 TYP=7

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

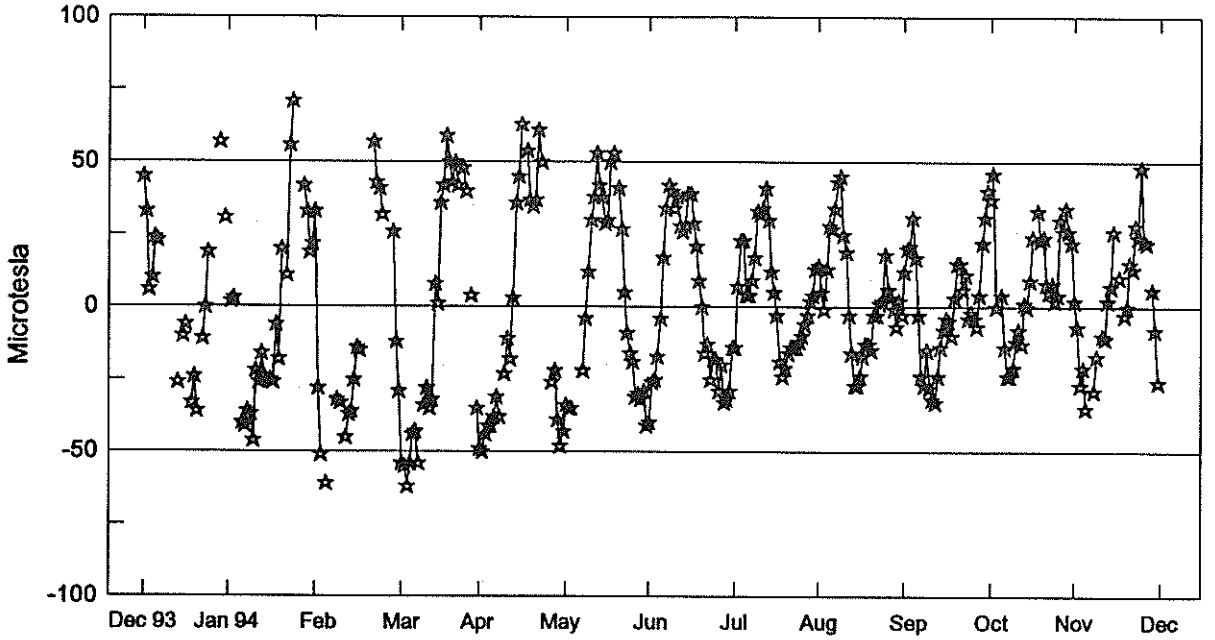
Explanation of Type Code:

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 Precusor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major

1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF
21A Simple 3A GRF	40F Rise Only F	260 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; Hiraiso, Japan 500 and 200 MHz; and Toyokawa, Japan 9400, 3750, 2000 and 1000 MHz.

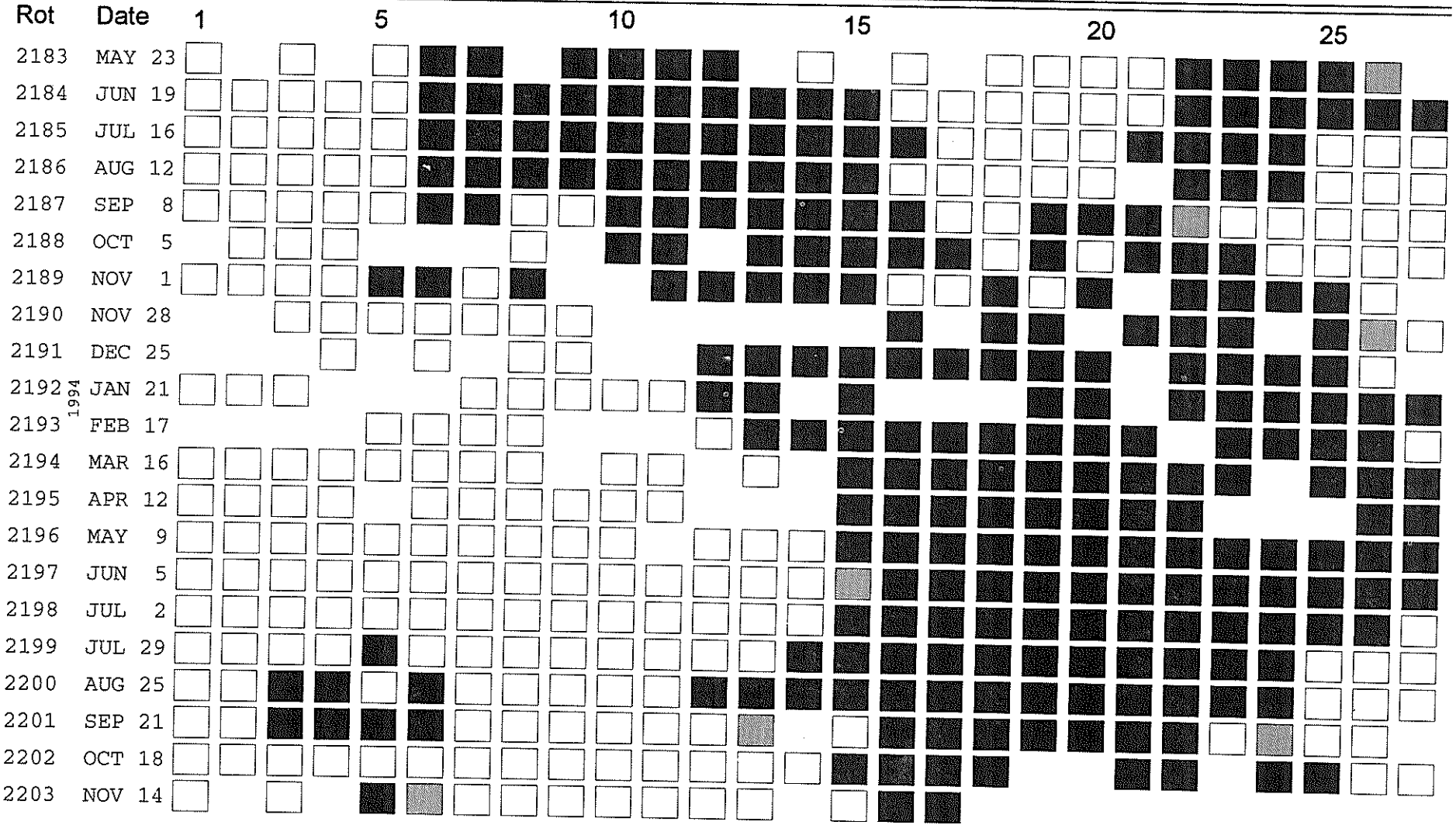
Stanford Mean Solar Magnetic Field (Microtesla)
"Sun-As-A-Star"



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

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

STANFORD MEAN SOLAR MAGNETIC FIELD

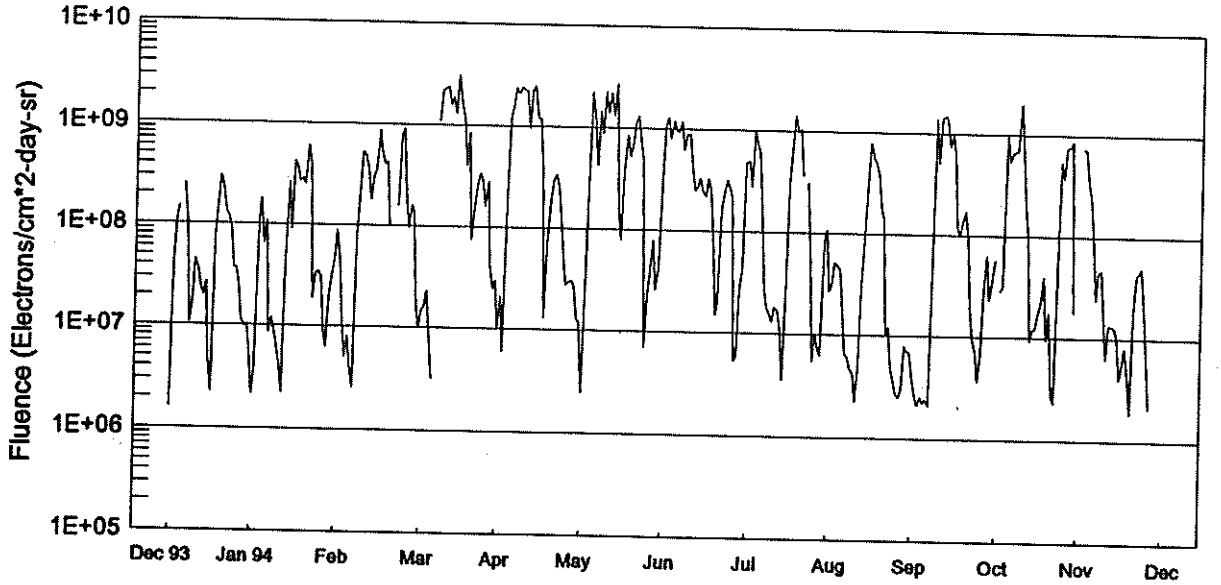


Mean Solar Magnetic Field Polarity: = field > 2 microT; = -2 microT ≤ field ≤ 2 microT

= field < -2 microT; No box = no data available

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

GOES7 Daily Electron Fluence
Dec 93 - Nov 94



Day	Dec 93	Jan 94	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	1.6E+06	3.8E+06	4.5E+07	1.6E+07	2.1E+07	2.5E+06	1.3E+09	5.0E+08	3.0E+07	2.5E+06	--	7.3E+08
2	4.1E+07	1.1E+08	1.1E+07	9.9E+06	5.9E+06	2.3E+07	8.1E+08	2.8E+08	5.1E+07	2.1E+06	2.8E+07	7.1E+08
3	1.1E+08	1.8E+08	5.0E+06	1.5E+07	1.9E+08	2.5E+08	1.2E+09	1.0E+09	4.9E+07	2.5E+06	3.0E+07	3.5E+08
4	1.5E+08	6.6E+07	8.1E+06	1.6E+07	1.2E+09	2.2E+09	9.6E+08	7.3E+08	4.3E+07	2.2E+06	9.7E+08	2.4E+08
5	--	1.1E+08	4.1E+06	2.3E+07	1.6E+09	1.4E+09	9.3E+08	6.1E+08	1.6E+07	2.4E+06	5.4E+08	1.0E+08
6	2.5E+08	8.5E+06	2.5E+06	7.5E+06	2.4E+09	4.3E+08	1.2E+09	1.7E+08	6.4E+06	2.1E+06	6.5E+08	2.3E+07
7	1.0E+08	1.2E+07	7.7E+07	3.1E+06	2.1E+09	1.5E+09	6.2E+08	2.7E+07	6.1E+06	5.4E+07	6.8E+08	4.4E+07
8	1.1E+07	9.2E+06	1.9E+08	--	2.4E+09	8.8E+08	9.0E+08	1.8E+07	4.6E+06	1.4E+09	6.7E+08	4.6E+07
9	1.6E+07	6.0E+06	5.3E+08	1.1E+09	2.3E+09	2.2E+09	9.0E+08	1.6E+07	4.2E+06	5.2E+08	2.0E+09	1.6E+07
10	4.5E+07	4.1E+06	5.1E+08	2.2E+09	2.2E+09	1.4E+09	4.2E+08	1.3E+07	2.2E+06	1.4E+09	8.8E+08	6.3E+06
11	3.6E+07	2.2E+06	3.5E+08	2.3E+09	9.6E+08	2.2E+09	2.5E+08	1.8E+07	4.6E+06	1.5E+09	1.9E+08	1.3E+07
12	2.3E+07	4.3E+07	1.8E+08	2.4E+09	2.3E+09	1.3E+09	2.7E+08	1.7E+07	3.0E+07	1.4E+09	9.8E+07	1.3E+07
13	2.0E+07	2.6E+08	3.0E+08	1.6E+09	2.5E+09	2.7E+09	3.3E+08	1.1E+07	9.1E+07	7.4E+08	9.1E+06	1.2E+07
14	2.7E+07	9.1E+07	3.6E+08	1.9E+09	1.2E+09	1.6E+08	2.4E+08	3.5E+06	3.9E+08	9.6E+08	1.2E+07	1.0E+07
15	4.8E+06	4.2E+08	8.8E+08	1.3E+09	1.2E+09	8.0E+07	2.2E+08	2.0E+07	8.0E+08	6.3E+08	1.2E+07	3.9E+06
16	2.2E+06	3.7E+08	5.4E+08	3.1E+09	3.6E+08	3.9E+08	3.3E+08	3.0E+08	5.6E+08	1.2E+08	1.8E+07	5.2E+06
17	7.5E+07	2.7E+08	4.1E+08	1.6E+09	1.3E+07	8.6E+08	2.5E+08	7.9E+08	4.9E+08	1.0E+08	2.2E+07	8.0E+06
18	1.6E+08	2.9E+08	4.2E+08	1.2E+09	6.8E+07	5.3E+08	9.1E+07	1.5E+09	3.8E+08	1.4E+08	4.0E+07	4.2E+06
19	3.0E+08	2.5E+08	1.0E+08	4.0E+08	1.9E+08	6.7E+08	1.5E+07	9.9E+08	1.8E+08	1.7E+08	9.4E+06	1.8E+06
20	2.4E+08	6.1E+08	-999	8.6E+08	3.0E+08	1.1E+09	2.0E+07	1.0E+09	1.4E+08	9.3E+07	-999	1.7E+07
21	1.3E+08	3.9E+08	-999	7.5E+07	3.4E+08	1.3E+09	1.7E+08	3.6E+08	1.0E+07	2.0E+07	2.7E+06	4.1E+07
22	1.2E+08	1.9E+07	1.6E+08	1.6E+08	2.7E+08	6.8E+08	2.4E+08	--	1.2E+07	9.6E+06	2.3E+06	4.5E+07
23	9.3E+07	3.3E+07	7.9E+08	2.7E+08	1.3E+08	4.9E+08	3.2E+08	3.1E+08	4.9E+06	7.0E+06	4.5E+07	4.9E+07
24	3.8E+07	3.5E+07	9.1E+08	3.4E+08	4.4E+07	6.8E+06	2.7E+08	4.8E+07	3.7E+06	3.6E+06	5.4E+08	1.7E+07
25	3.8E+07	3.1E+07	2.2E+08	2.9E+08	2.8E+07	2.3E+07	2.1E+08	5.4E+06	2.7E+06	6.8E+06	3.7E+08	6.1E+06
26	2.5E+07	9.3E+06	9.6E+07	1.6E+08	3.0E+07	4.3E+07	5.3E+06	1.0E+07	2.4E+06	3.0E+07	7.5E+08	2.0E+06
27	1.1E+07	6.2E+06	1.6E+08	2.8E+08	3.1E+07	8.0E+07	5.8E+06	7.2E+06	2.9E+06	6.4E+07	7.6E+08	--
28	9.9E+06	1.9E+07	1.4E+08	4.4E+07	2.7E+07	2.5E+07	2.8E+07	6.2E+06	7.9E+06	2.3E+07	8.6E+08	--
29	1.0E+07	3.1E+07		2.5E+07	1.3E+07	4.4E+07	4.3E+07	8.1E+07	6.9E+06	3.7E+07	1.7E+07	--
30	5.3E+06	4.9E+07		3.0E+07	1.2E+07	2.9E+08	4.8E+08	1.1E+08	6.8E+06	5.9E+07	--	1.6E+08
31	2.2E+06	9.0E+07		--		1.1E+09		2.7E+07	3.9E+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.

CONTENTS

Prompt Reports

Number 604 Part I

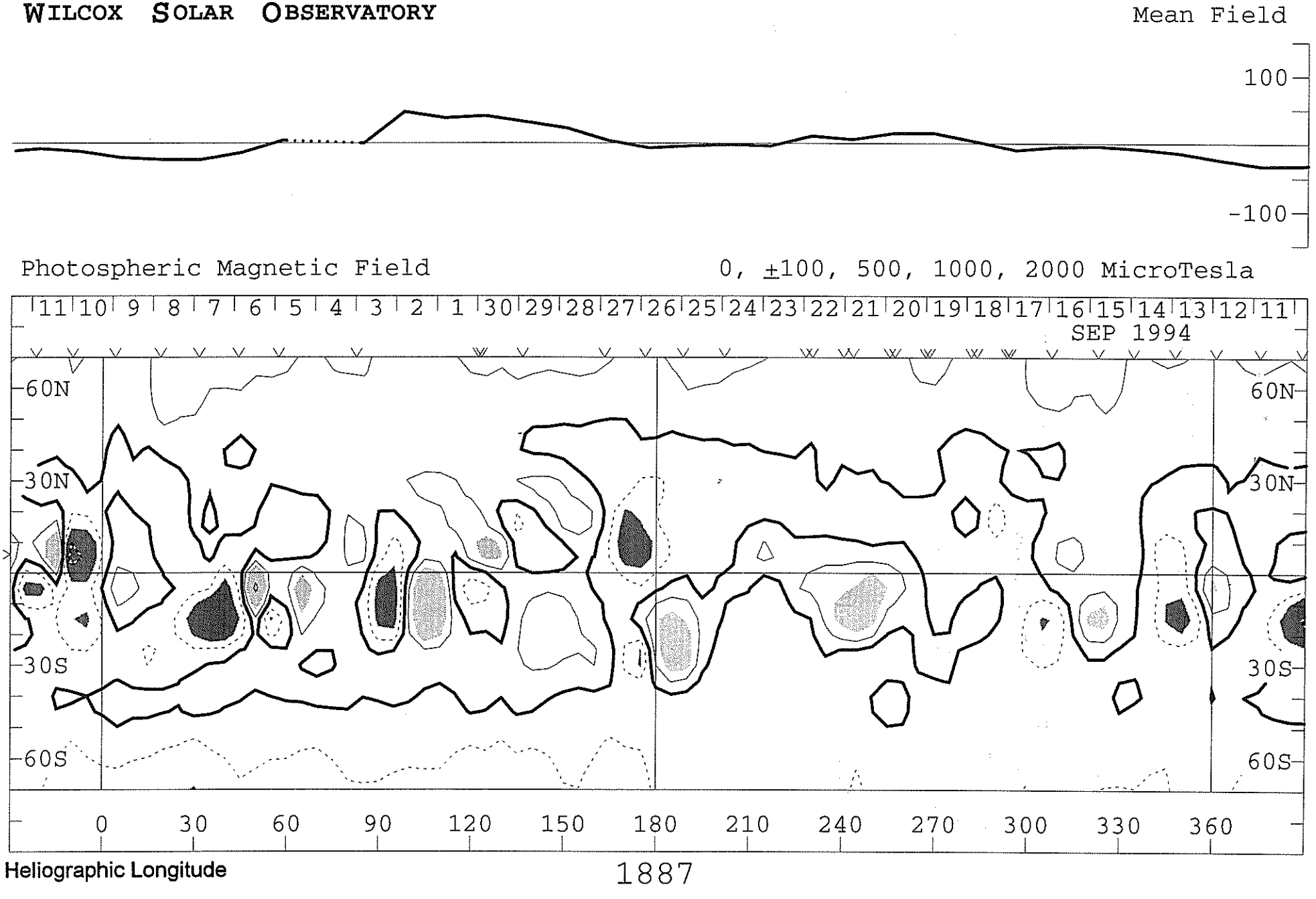
DATA FOR OCTOBER 1994

SOLAR MAGNETIC FIELD SYNOPTIC CHART

CARRINGTON ROTATION NUMBER 1887

(12 September to 10 October 1994)

WILCOX SOLAR OBSERVATORY



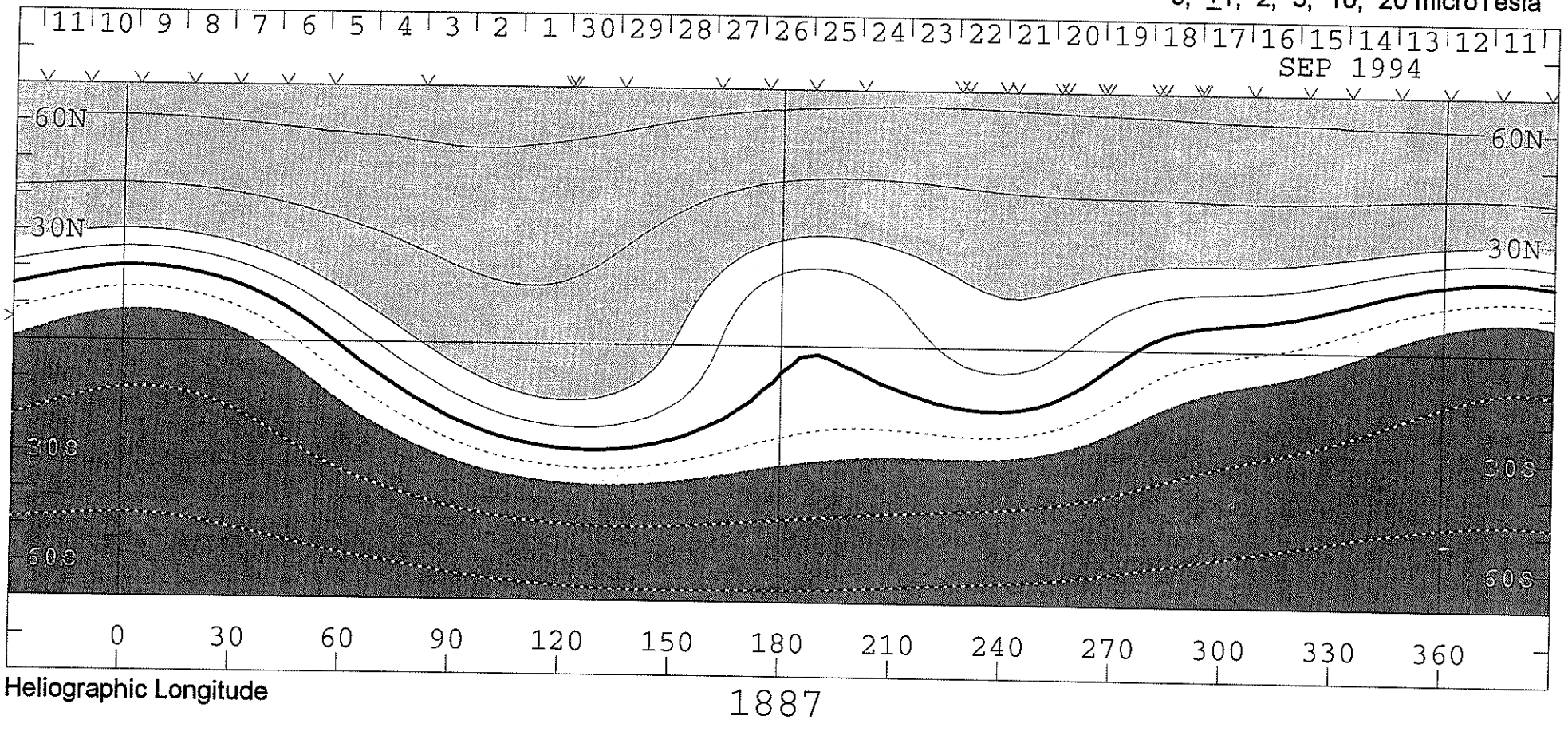
SOLAR MAGNETIC FIELD SYNOPTIC CHART

SOURCE SURFACE FIELD

CARRINGTON ROTATION NUMBER 1887

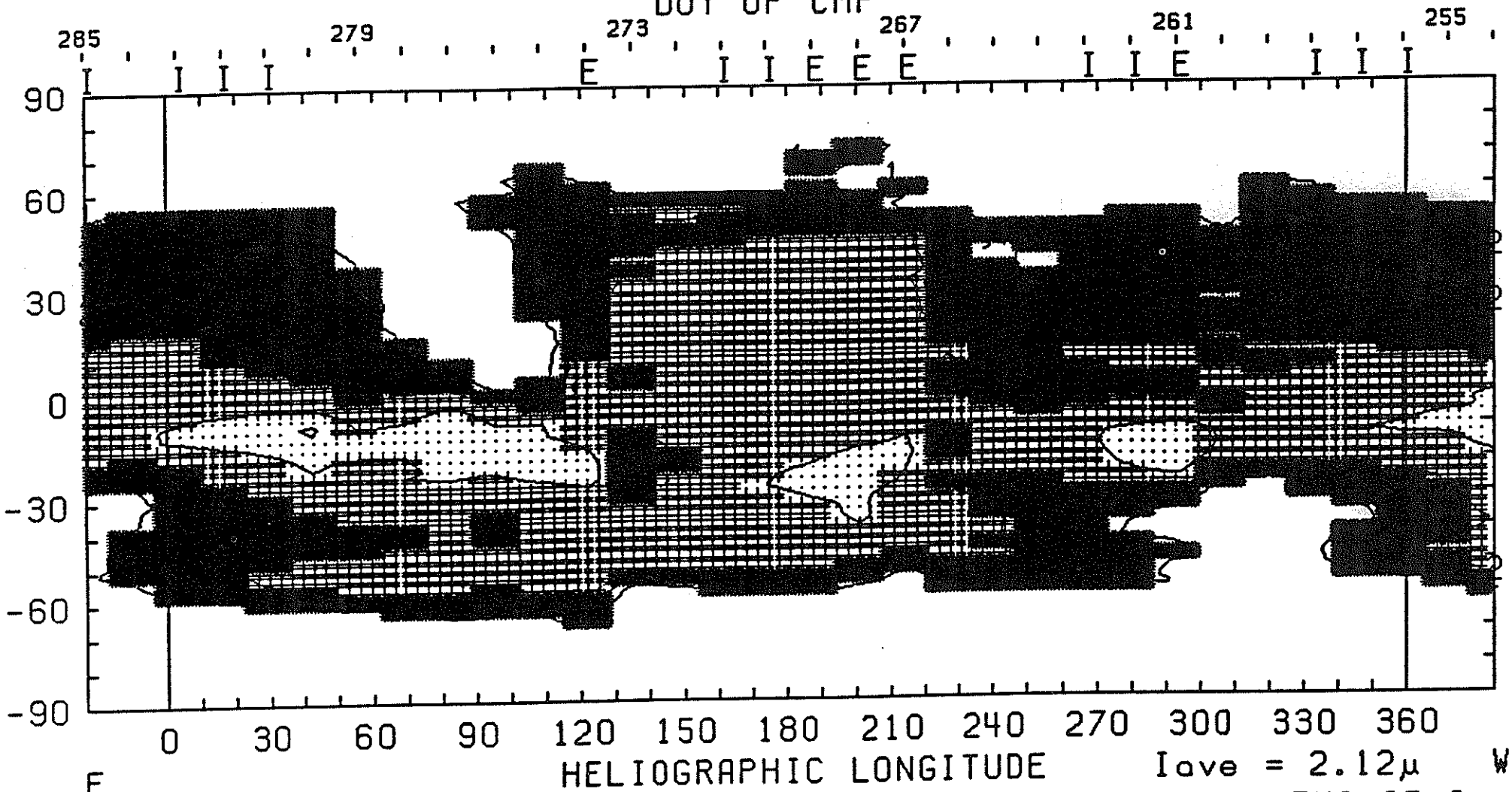
(12 September to 10 October 1994)

Wilcox Solar Observatory

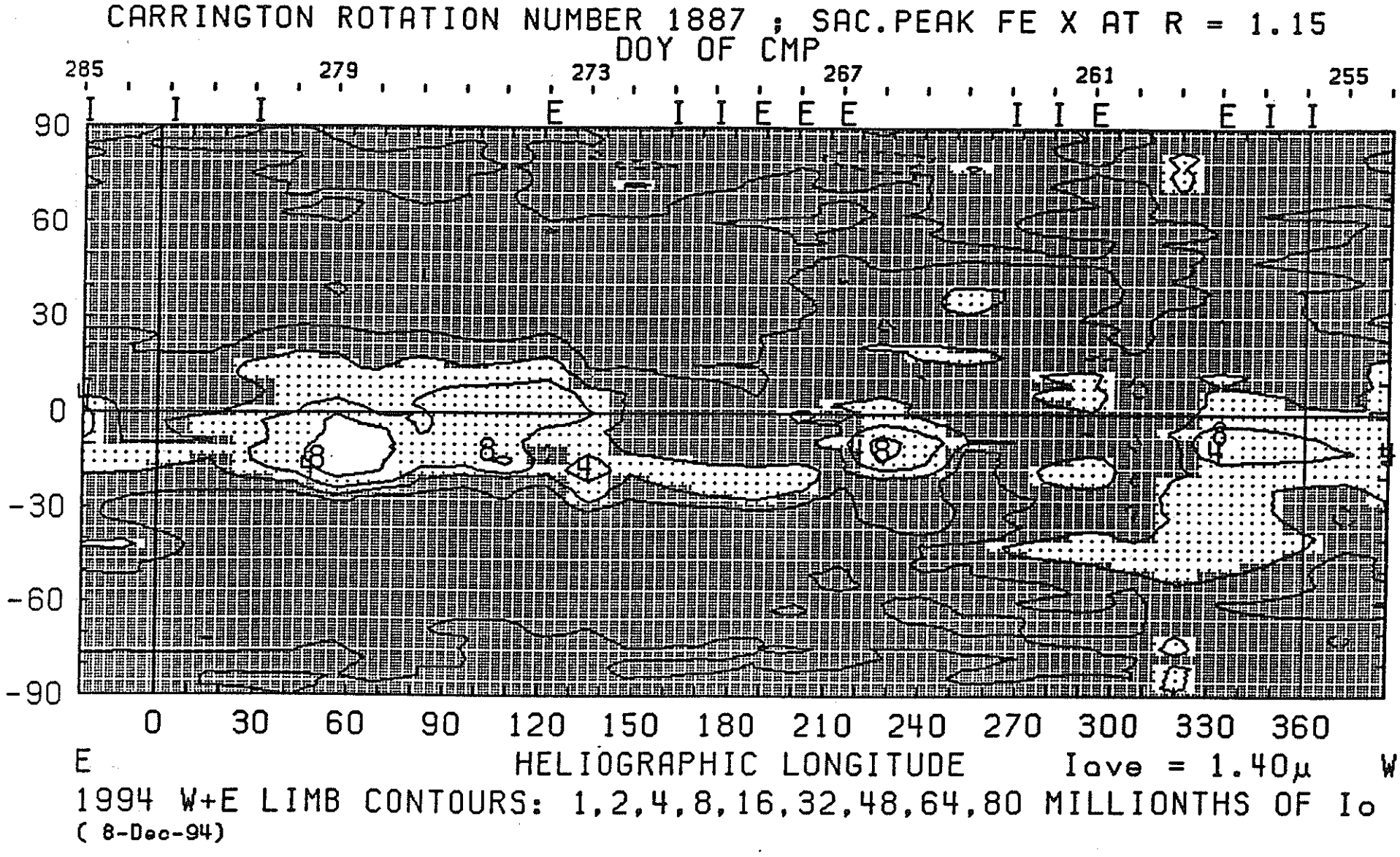


37
Oct 94

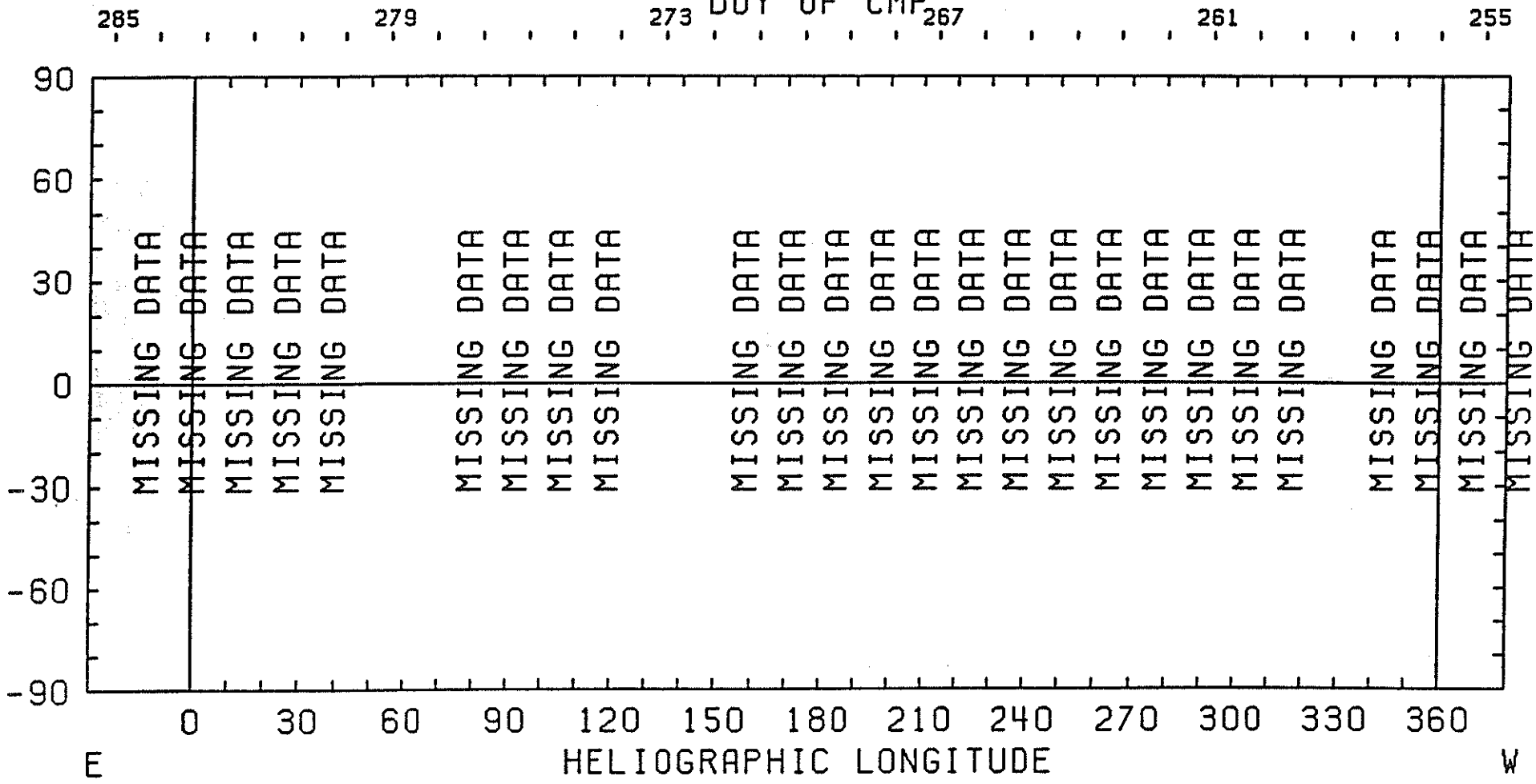
CARRINGTON ROTATION NUMBER 1887 ; SAC.PEAK FE XIV AT R = 1.15



1994 W+E LIMB CONTOURS: 1,2,3,7,11,15,25,35,45 MILLIONTHS OF Io
(8-Dec-94) CORONAL HOLES ARE SHOWN AS WHITE SURROUNDED BY BLACK

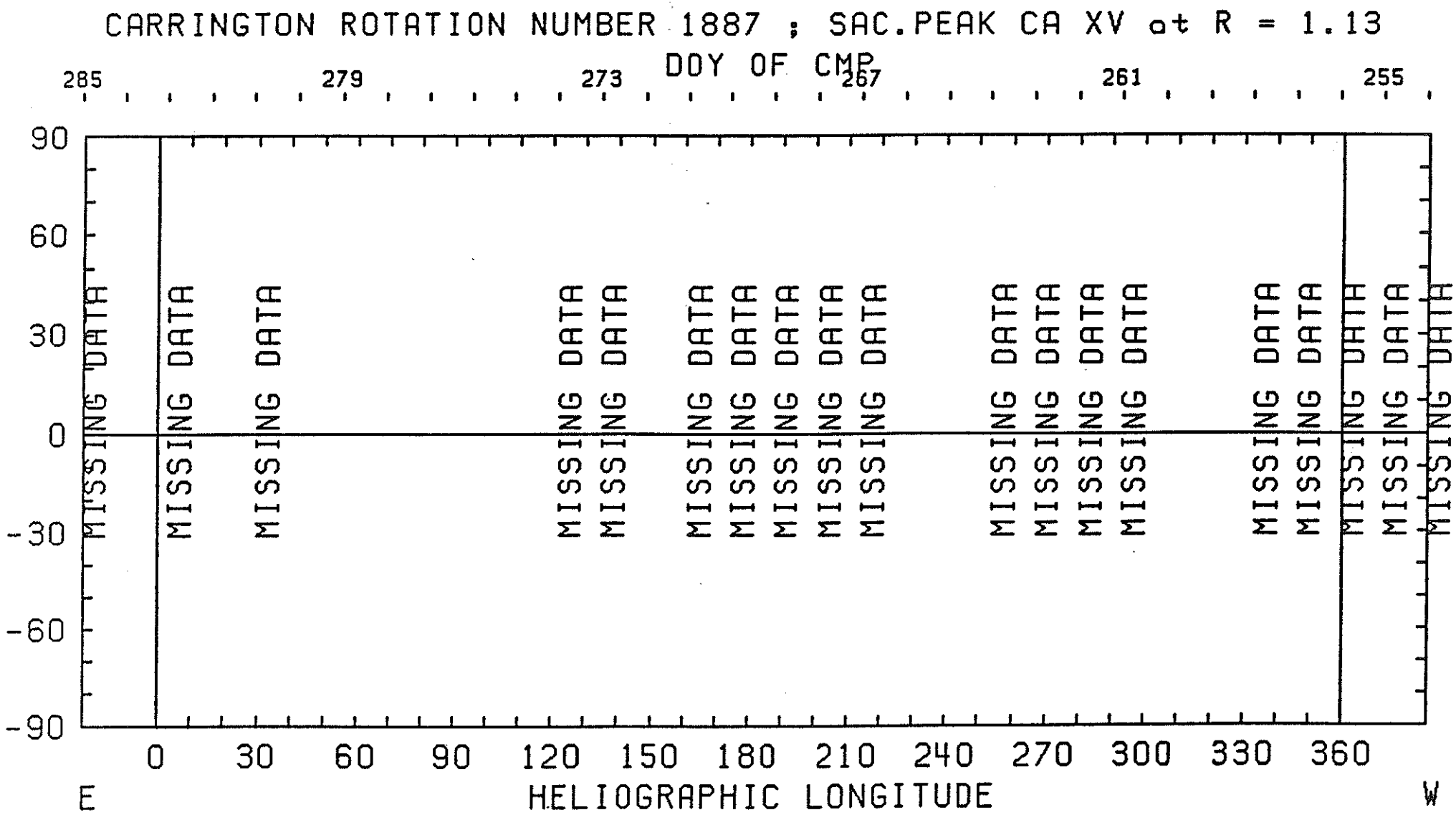

CARRINGTON ROTATION NUMBER 1887 ; SAC.PEAK FE X AT R = 1.15
DOY OF CMP
285
279
273
267
261
255
I I I E I I E E E I I E E I I
90
60
30
0
-30
-60
-90
0 30 60 90 120 150 180 210 240 270 300 330 360
E
HELIOGRAPHIC LONGITUDE
Iave = 1.40μ
W
1994 W+E LIMB CONTOURS: 1,2,4,8,16,32,48,64,80 MILLIONTHS OF Io
(8-Dec-94)

CARRINGTON ROTATION NUMBER 1887 ; SAC.PEAK CA XV at R = 1.13



1994 EAST LIMB CONTOURS: YELLOW-MINIMUM, 1, 2, 4, 8 MILLIONTHS OF Io

(8-Dec-94)


CARRINGTON ROTATION NUMBER 1887 ; SAC.PEAK CA XV at R = 1.13
DOY OF CMP
285
279
273
267
261
255
90
60
30
0
-30
-60
-90
MISSING DATA
0
30
60
90
120
150
180
210
240
270
300
330
360
E
HELIOGRAPHIC LONGITUDE
W
1994 WEST LIMB CONTOURS: YELLOW-MINIMUM,1,2,4,8 MILLIONTHS OF Io
(8-Dec-94)

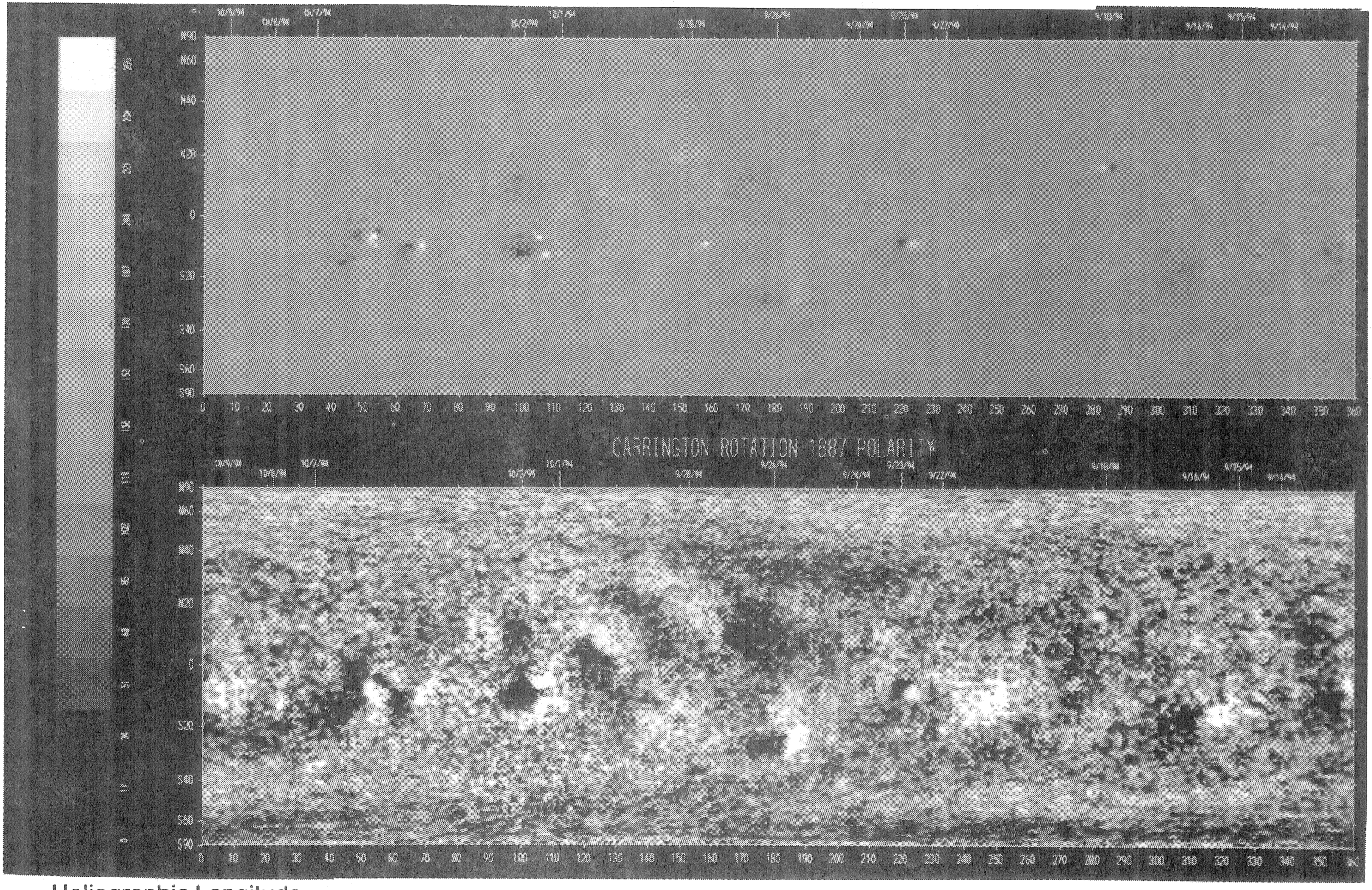
SOLAR MAGNETIC FIELD SYNOPTIC CHART

CARRINGTON ROTATION NUMBER 1887

(12 September to 10 October 1994)

National Solar Observatory/Kitt Peak

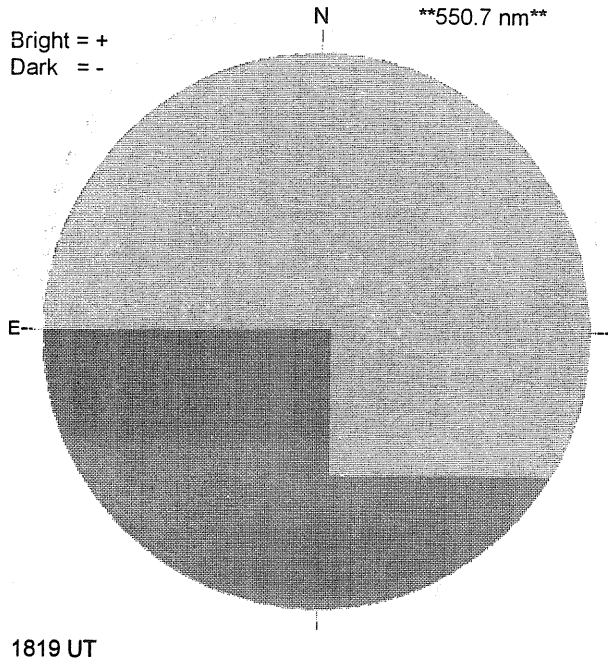
Dates of Observation



Heliographic Longitude

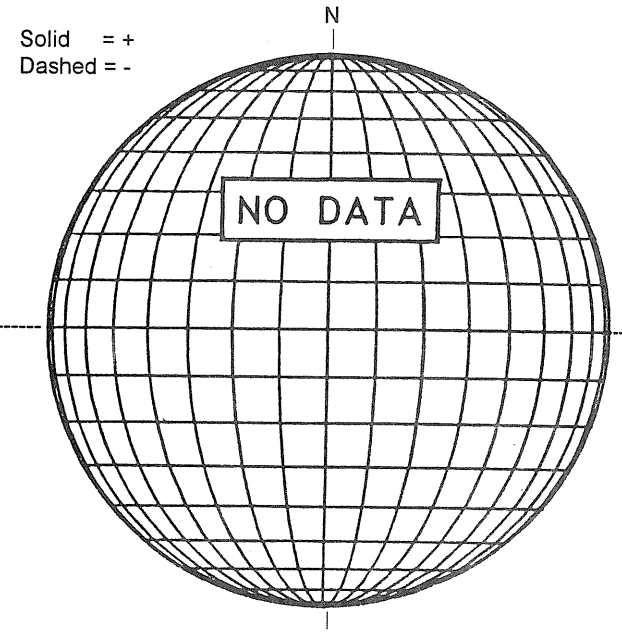
OCTOBER 1, 1994 (P= 25.97, Bo = 6.73, Lo = 121.83)

KITT PEAK MAGNETOGRAM

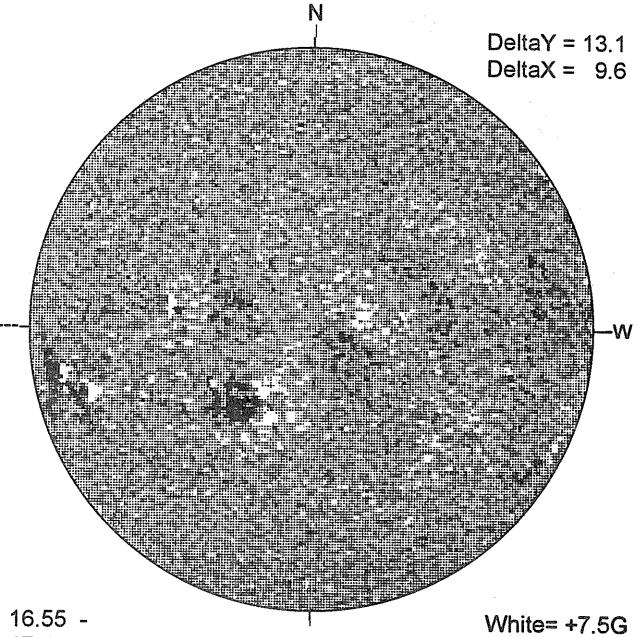


1819 UT

STANFORD MAGNETOGRAM



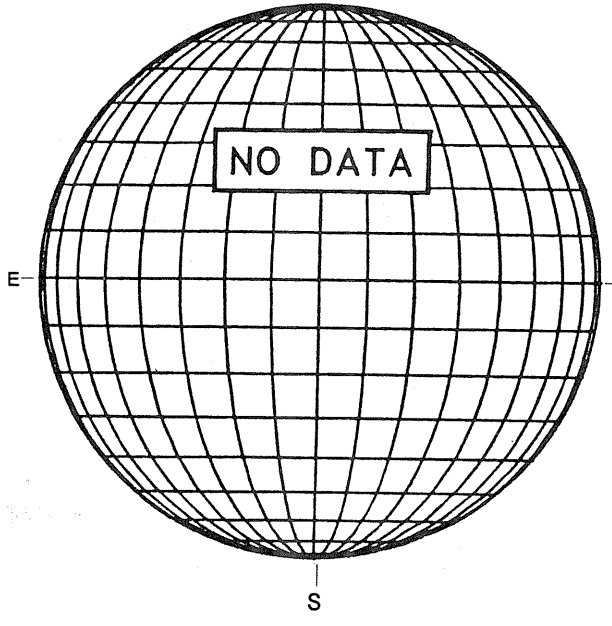
MT. WILSON MAGNETOGRAM



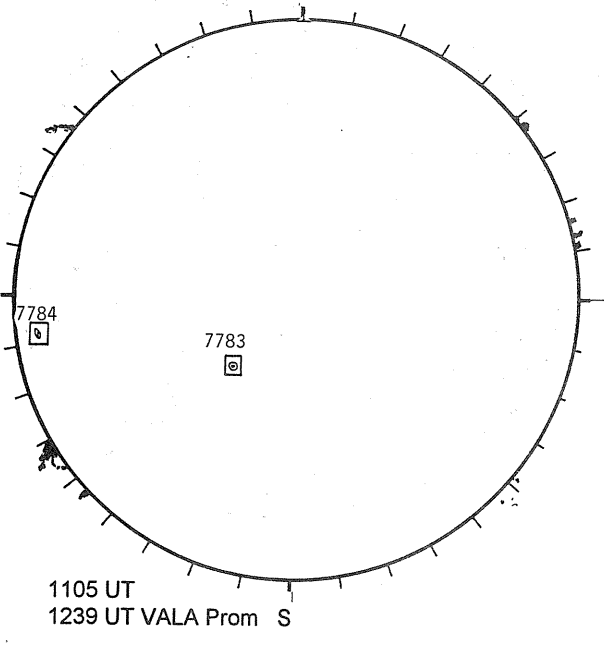
16.55 -
17.49 UT

White= +7.5G
Black = -7.5G

BIG BEAR H-ALPHA

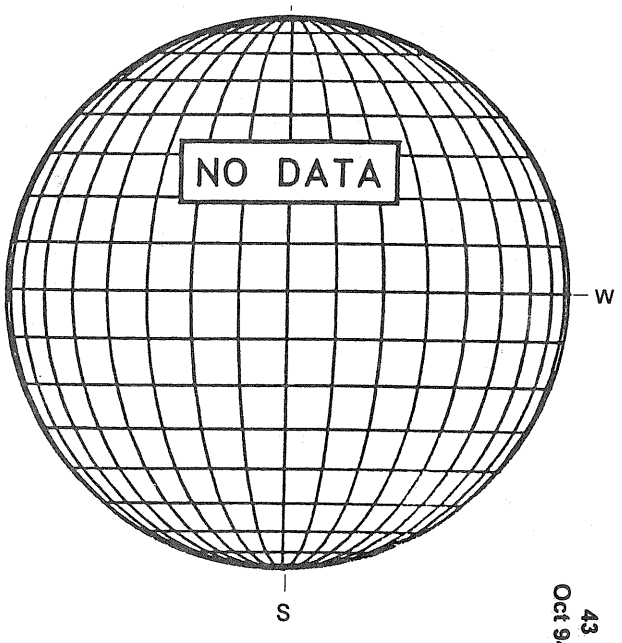


RAMEY SUNSPOT



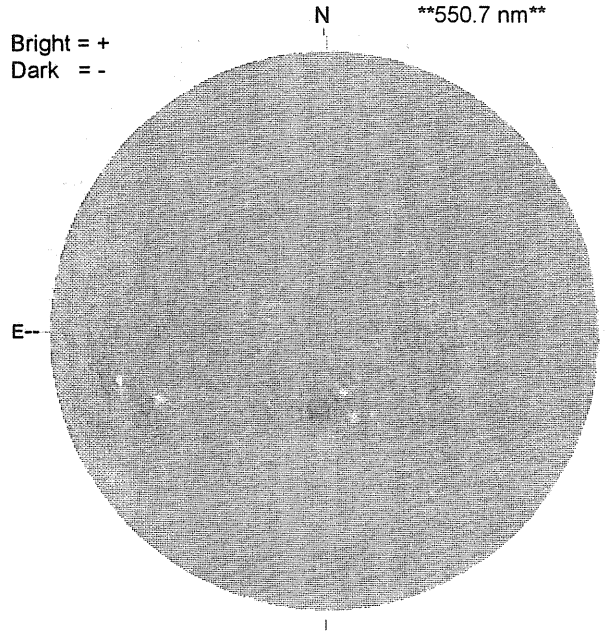
1105 UT
1239 UT VALA Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)----



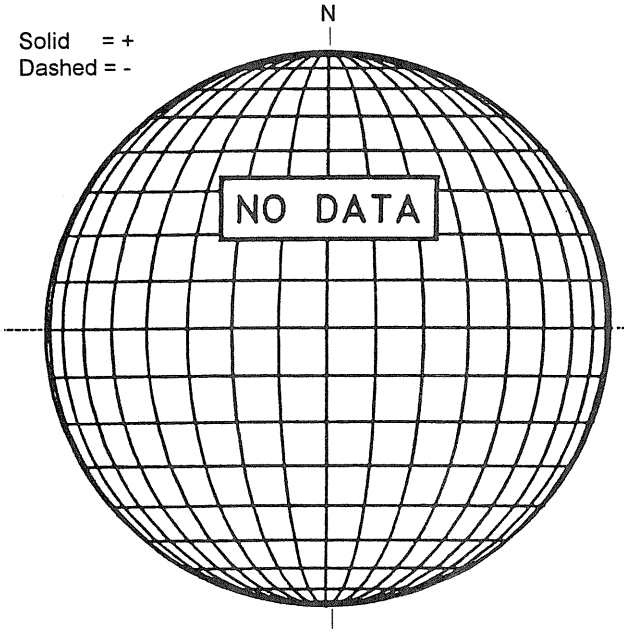
OCTOBER 2, 1994 (P= 26.04, Bo = 6.68, Lo = 108.63)

KITT PEAK MAGNETOGRAM

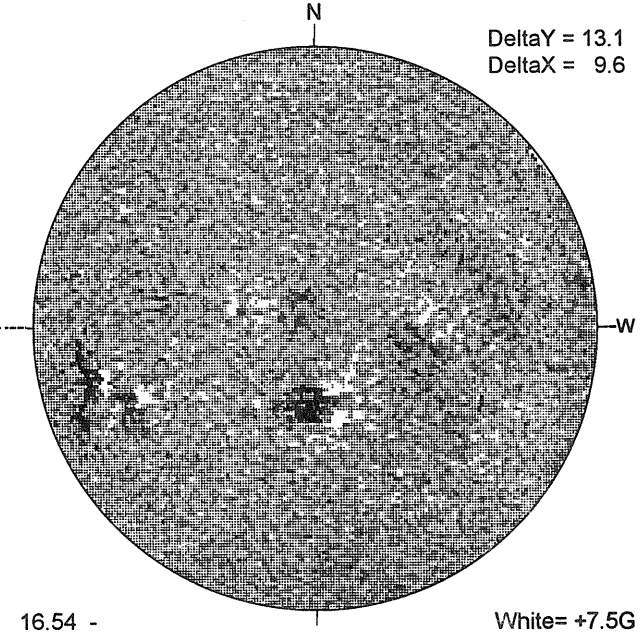


1514 UT

STANFORD MAGNETOGRAM



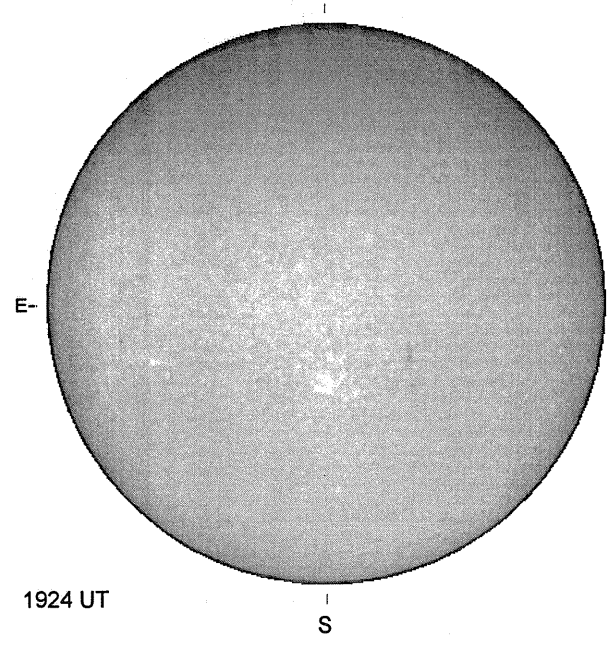
MT. WILSON MAGNETOGRAM



16.54 -
17.47 UT

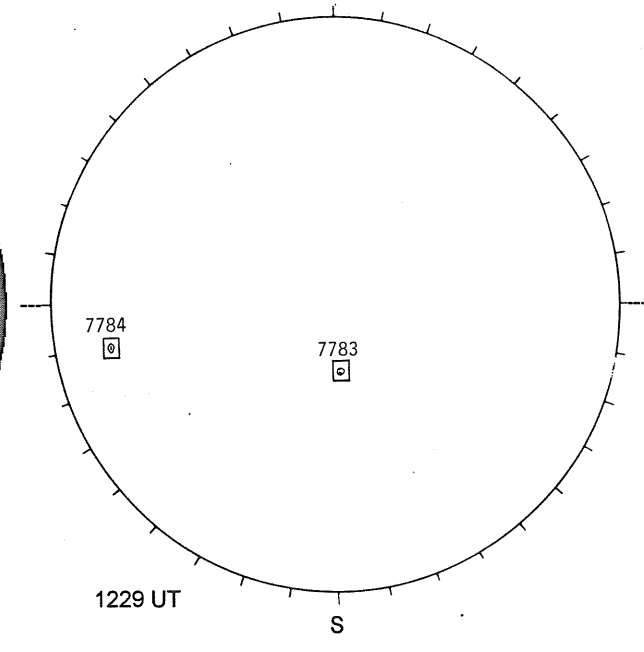
White= +7.5G
Black = -7.5G

MAUNA LOA H-ALPHA



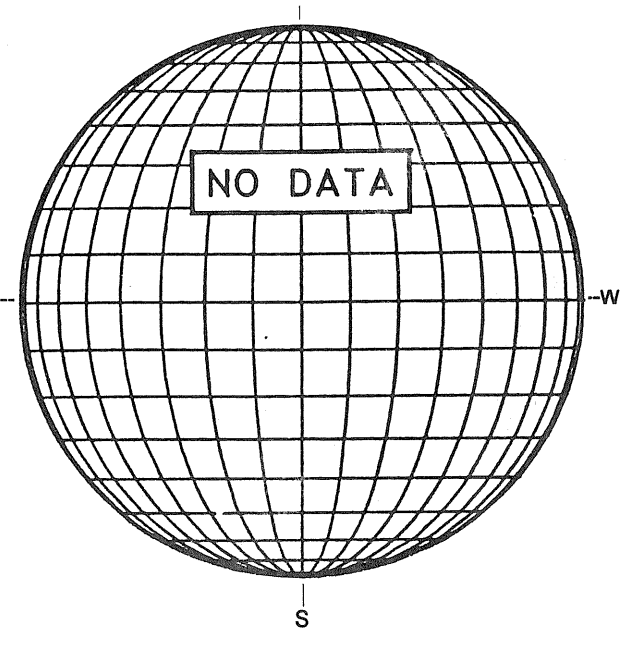
1924 UT

RAMEY SUNSPOT



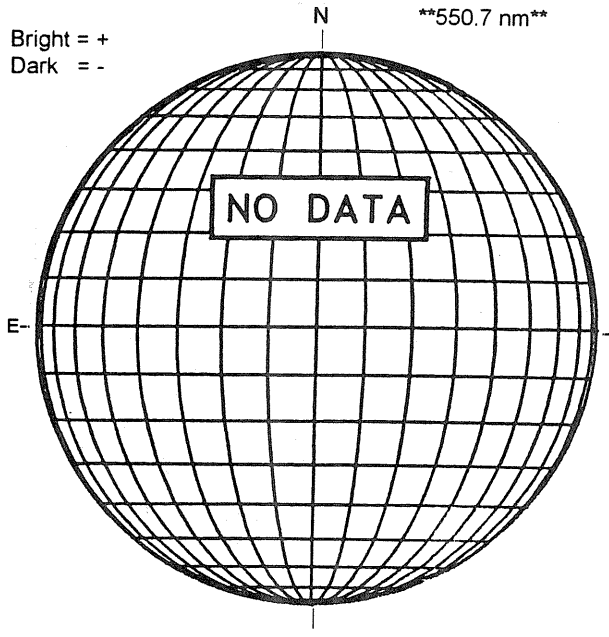
1229 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

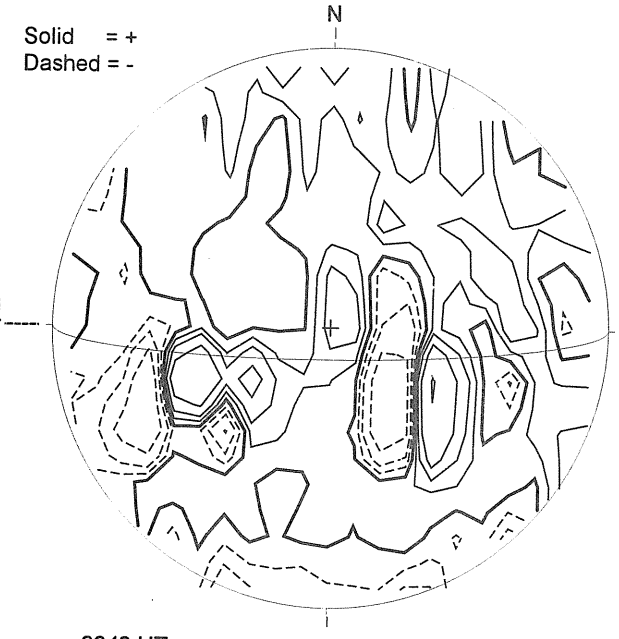


OCTOBER 3, 1994 (P= 26.09, Bo = 6.63, Lo = 95.44)

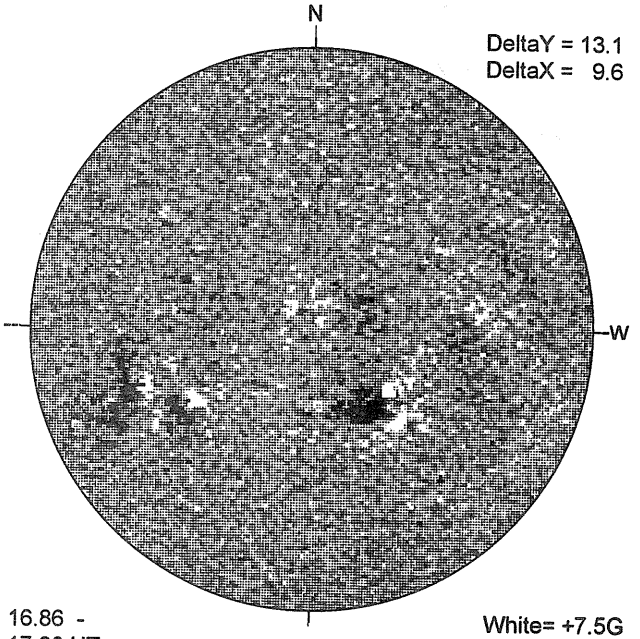
KITT PEAK MAGNETOGRAM



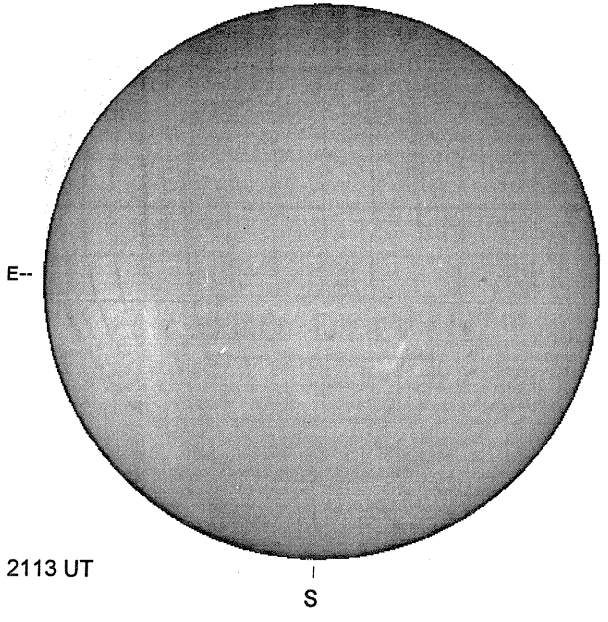
STANFORD MAGNETOGRAM



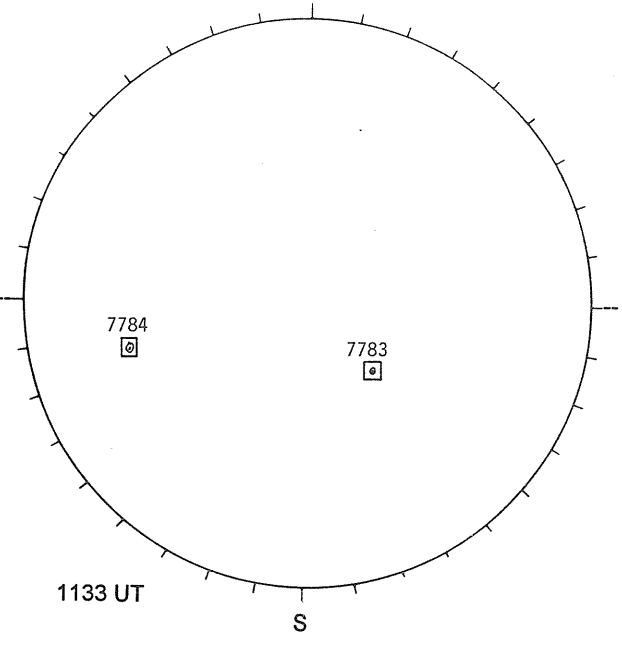
MT. WILSON MAGNETOGRAM



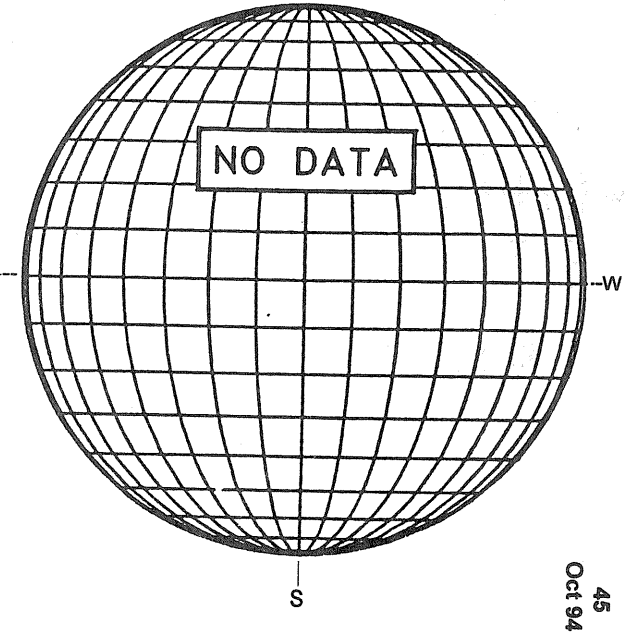
MAUNA LOA H-ALPHA



RAMEY SUNSPOT



SACRAMENTO PEAK CORONA (1.15 Radii)----



45
Oct 94

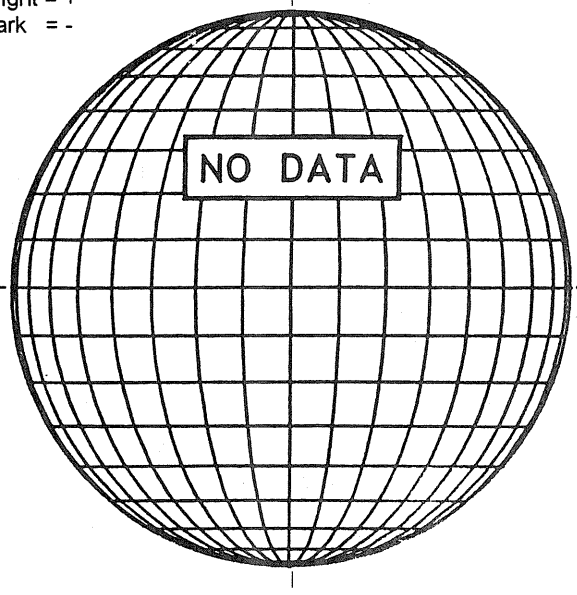
OCTOBER 4, 1994 (P= 26.14, Bo = 6.58, Lo = 82.25)

KITT PEAK MAGNETOGRAM

N

550.7 nm

Bright = +
Dark = -

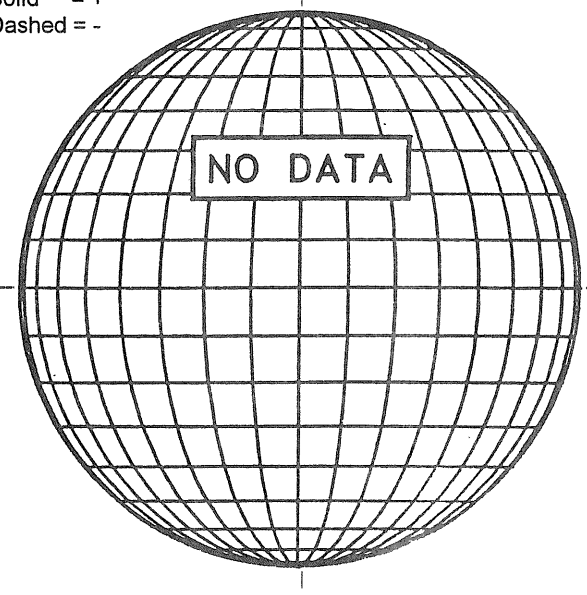


E--

STANFORD MAGNETOGRAM

N

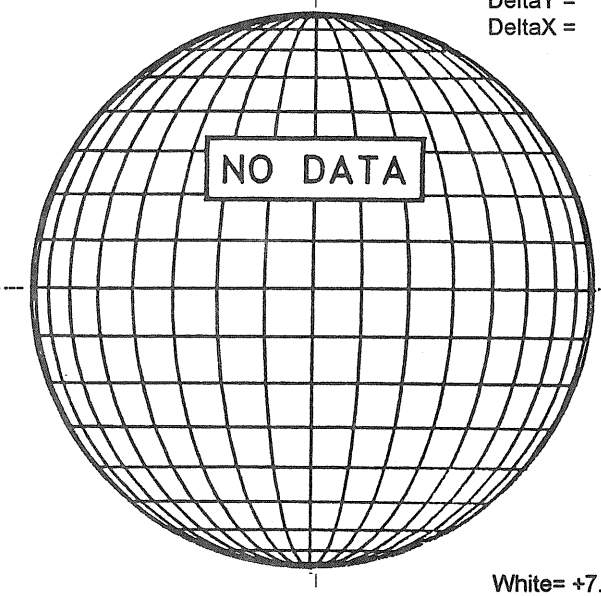
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

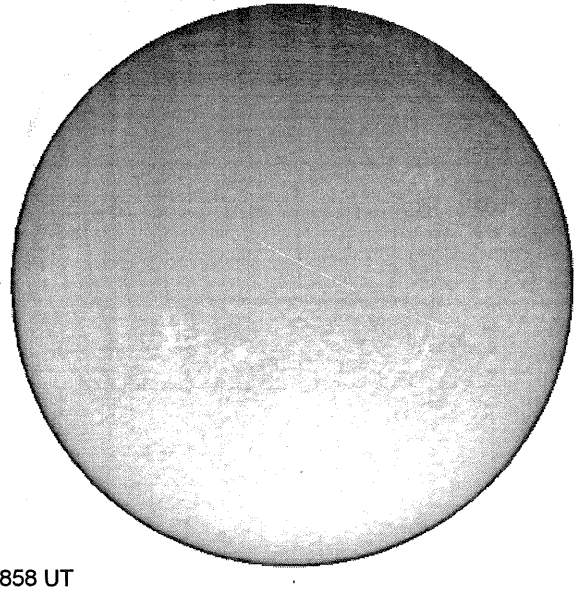
DeltaY =
DeltaX =



--W

White= +7.5G
Black = -7.5G

MAUNA LOA H-ALPHA

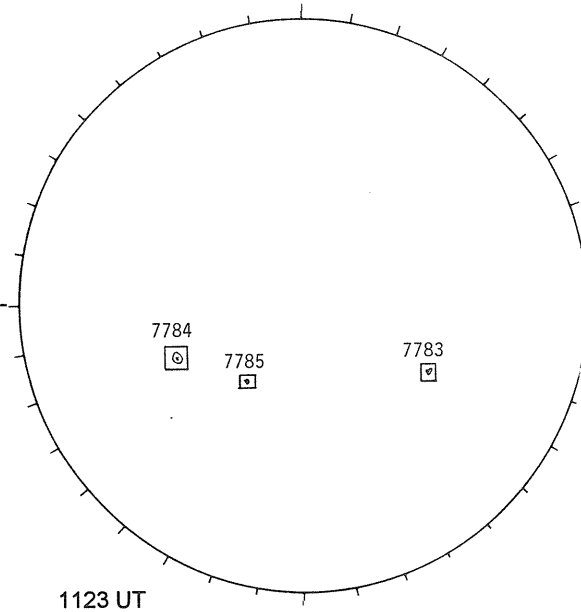


E-

1858 UT

S

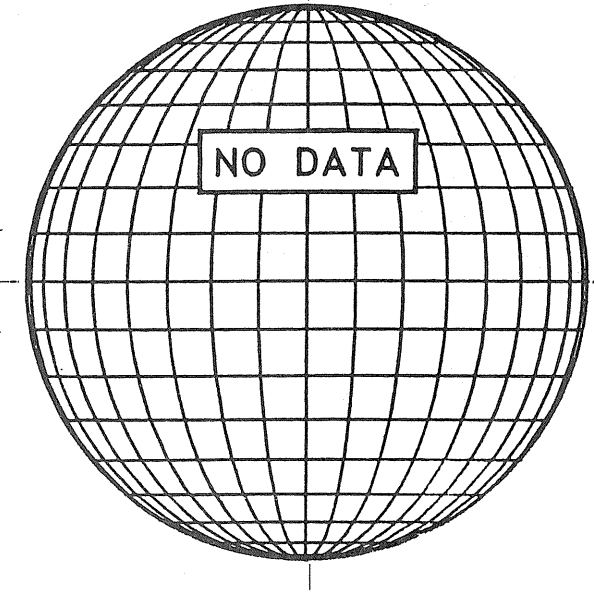
RAMEY SUNSPOT



1123 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)----

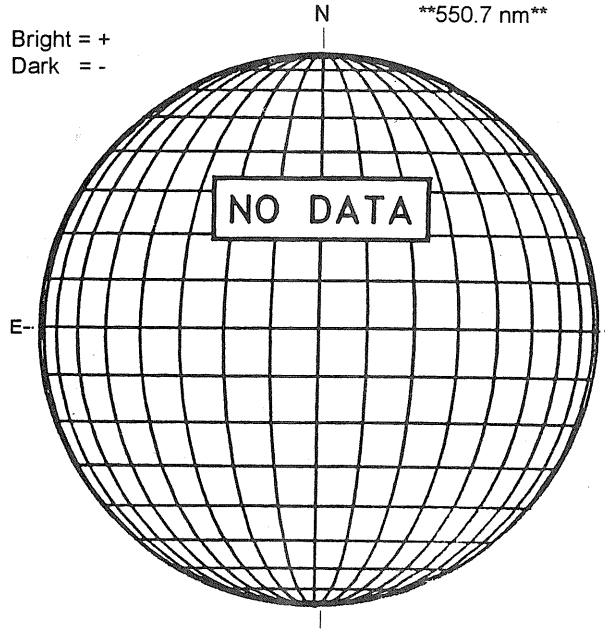


--W

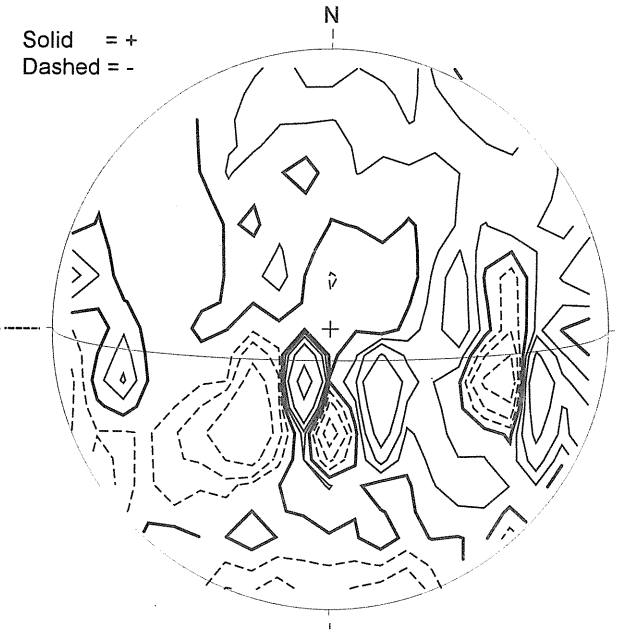
S

OCTOBER 5, 1994 (P= 26.19, Bo = 6.52, Lo = 69.05)

KITT PEAK MAGNETOGRAM

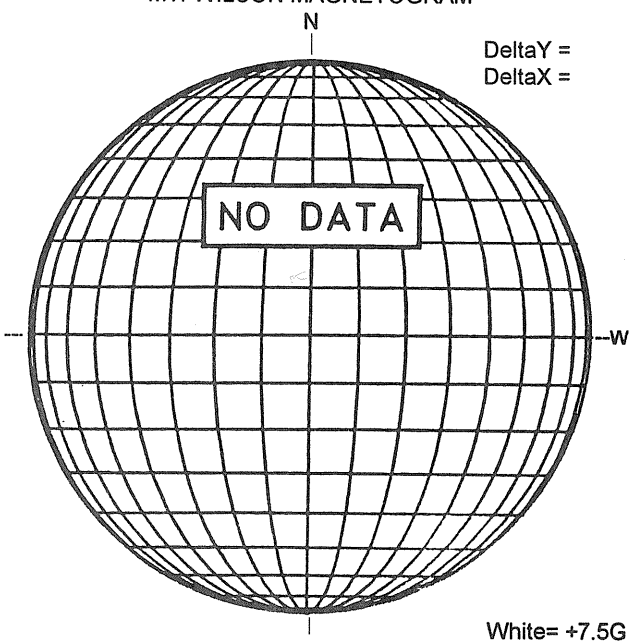


STANFORD MAGNETOGRAM

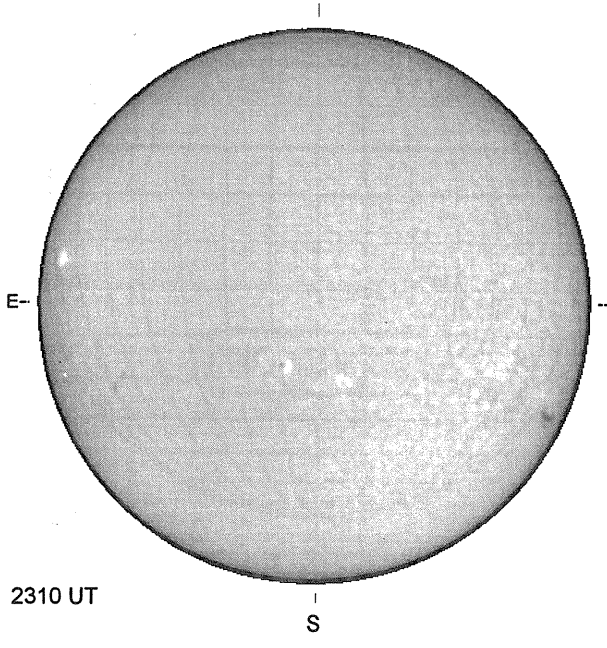


2138 UT

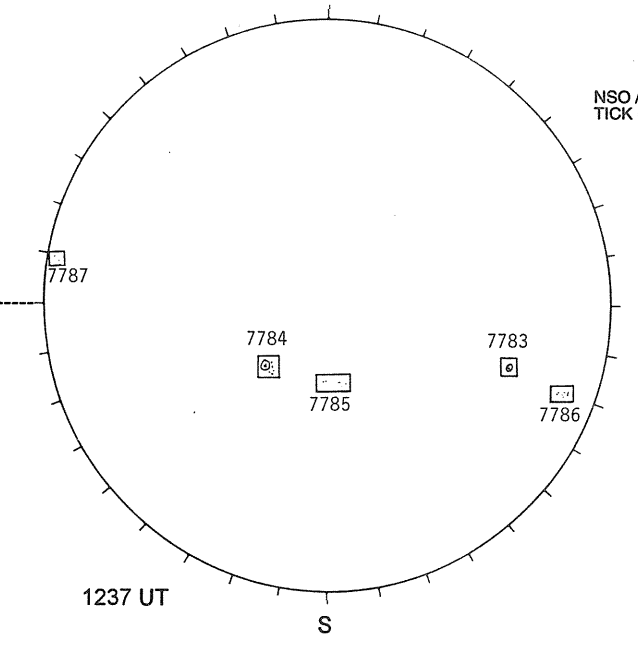
MT. WILSON MAGNETOGRAM



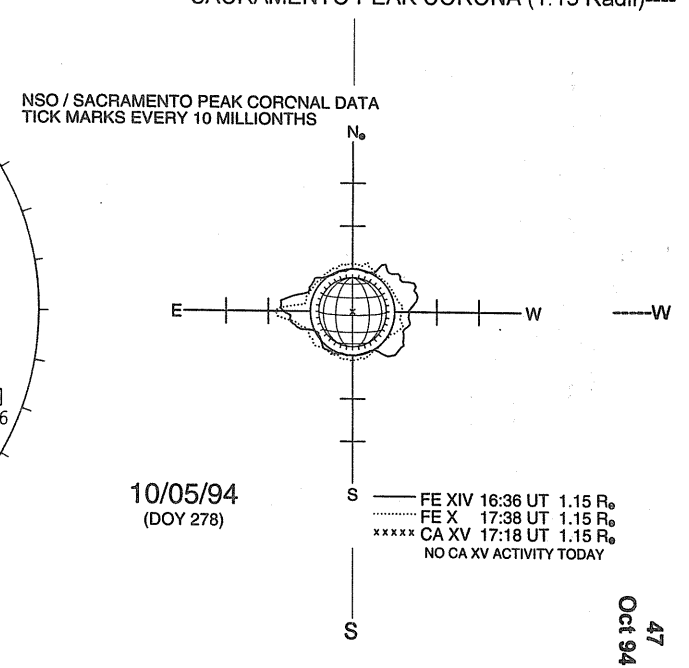
MAUNA LOA H-ALPHA



RAMEY SUNSPOT

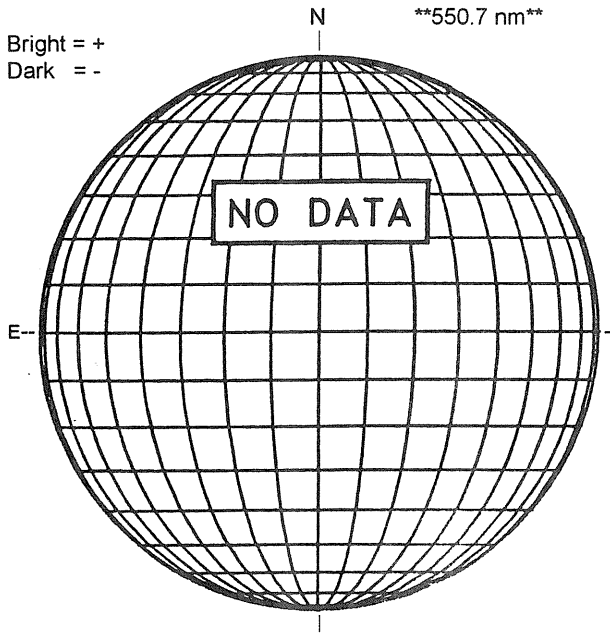


SACRAMENTO PEAK CORONA (1.15 Radii)----

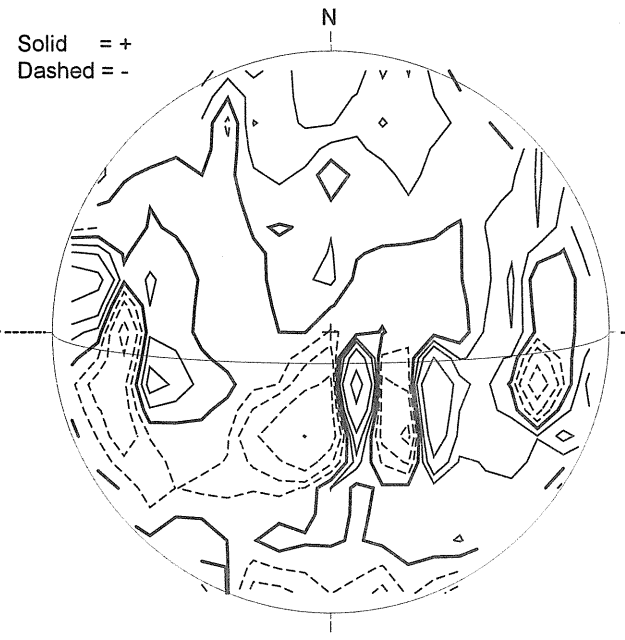


OCTOBER 6, 1994 (P= 26.22 Bo = 6.47, Lo = 55.86)

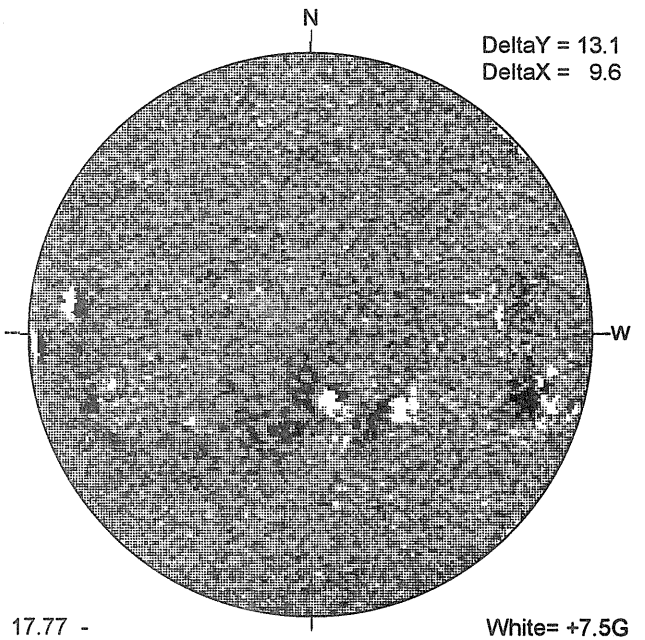
KITT PEAK MAGNETOGRAM



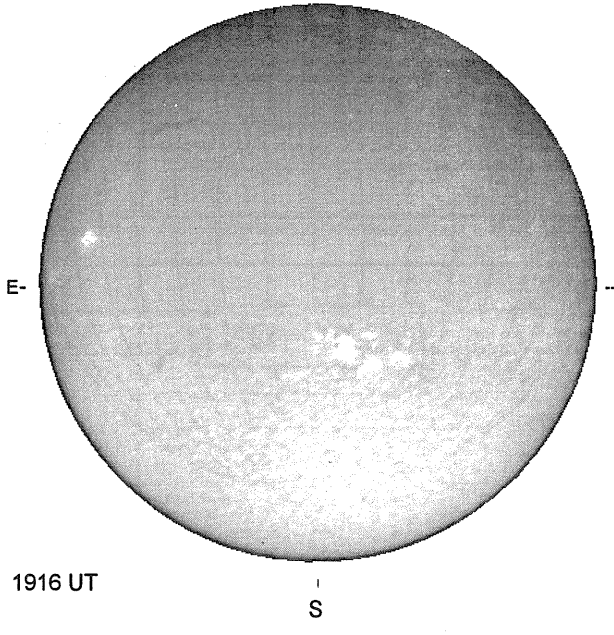
STANFORD MAGNETOGRAM



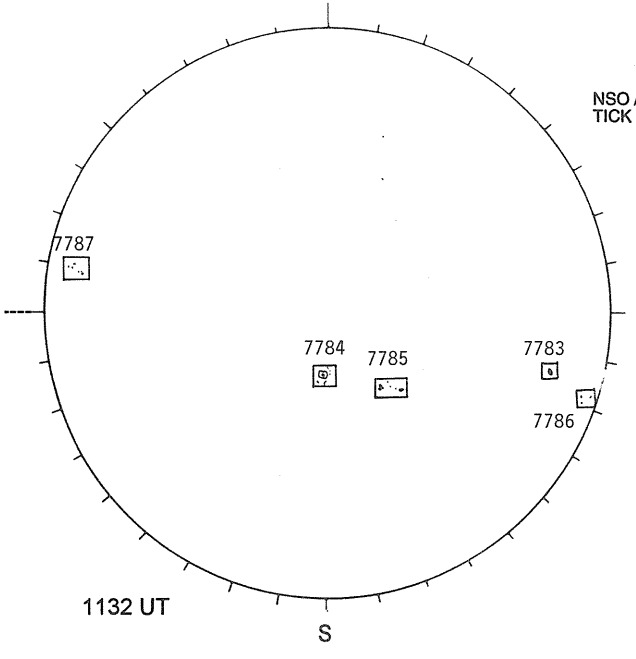
MT. WILSON MAGNETOGRAM



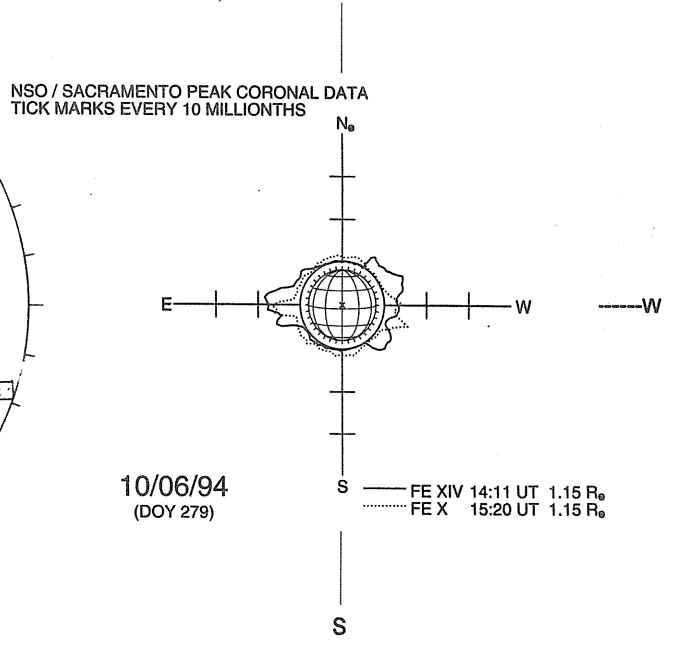
MAUNA LOA H-ALPHA



RAMEY SUNSPOT

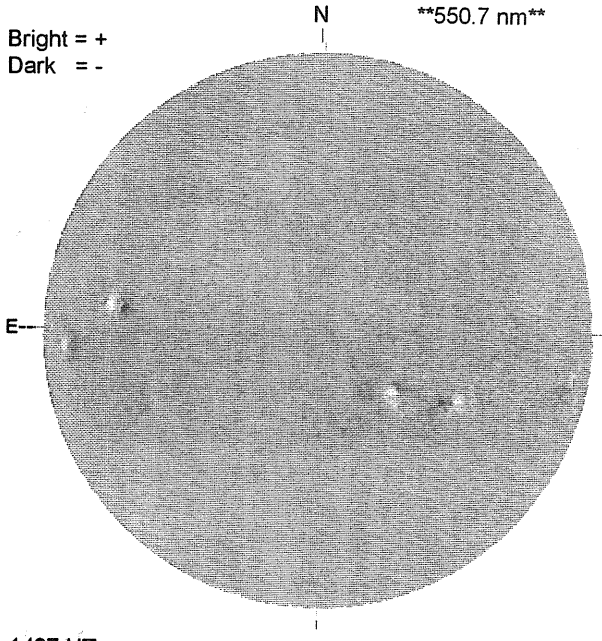


SACRAMENTO PEAK CORONA (1.15 Radii)



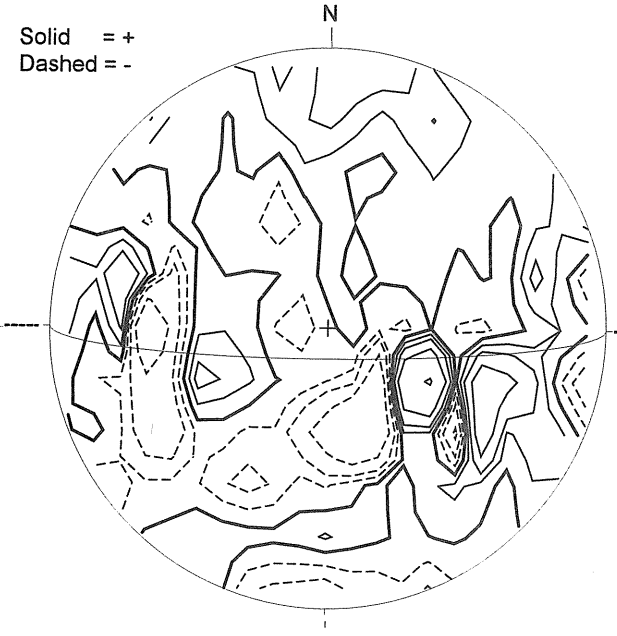
OCTOBER 7, 1994 (P= 26.25, Bo = 6.41, Lo = 42.66)

KITT PEAK MAGNETOGRAM



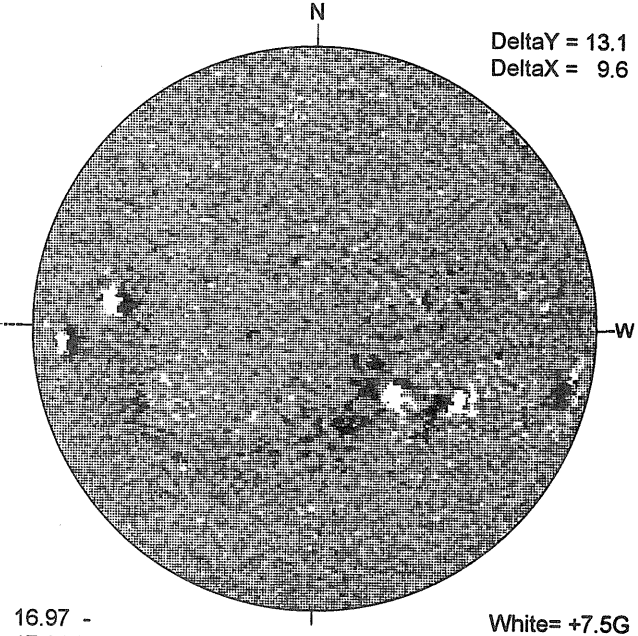
1437 UT

STANFORD MAGNETOGRAM



2040 UT

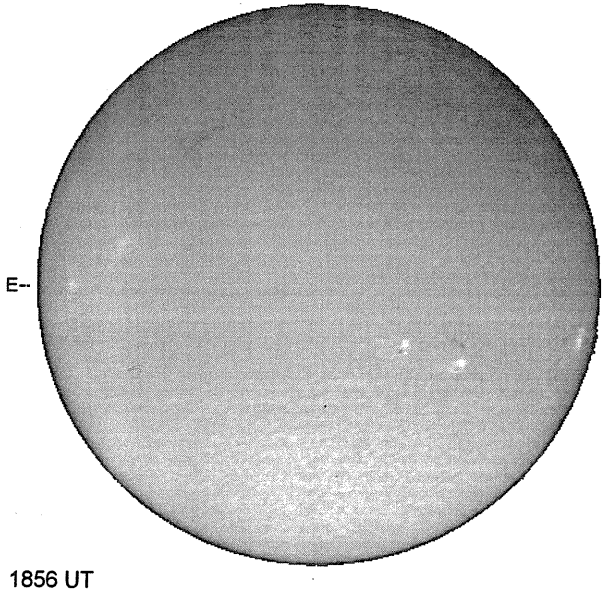
MT. WILSON MAGNETOGRAM



16.97 -
17.91 UT

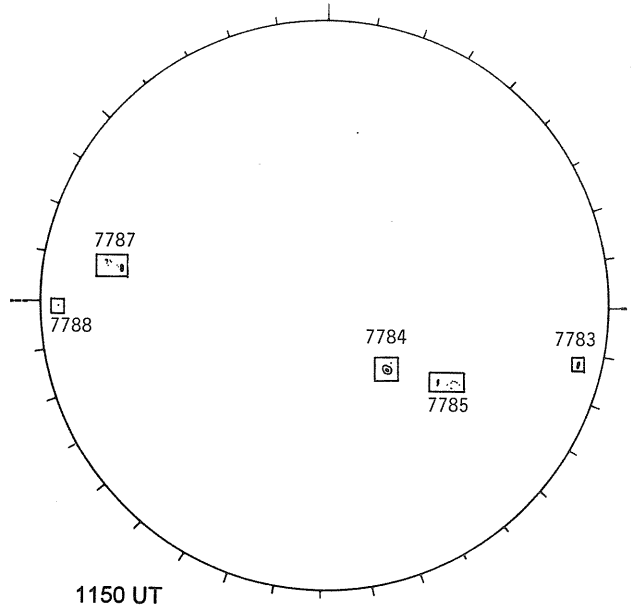
White= +7.5G
Black = -7.5G

MAUNA LOA H-ALPHA



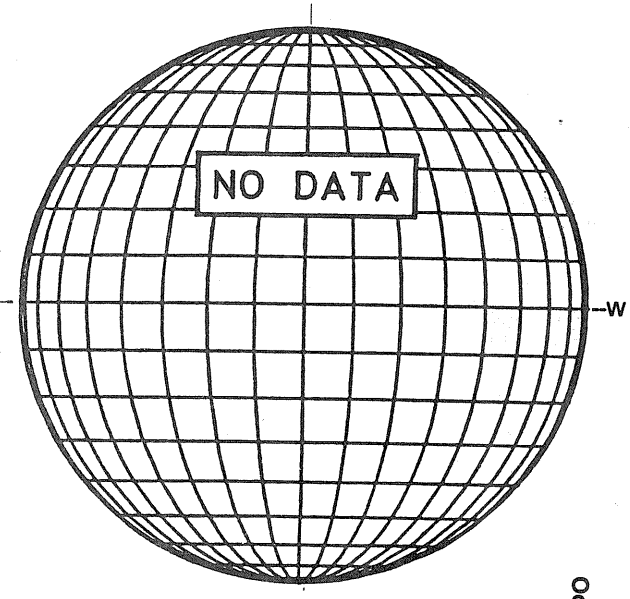
1856 UT

RAMEY SUNSPOT



1150 UT

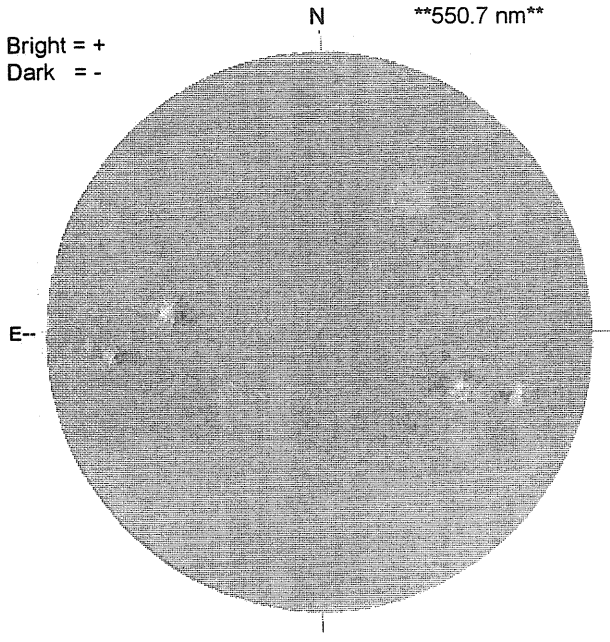
SACRAMENTO PEAK CORONA (1.15 Radii)----



49
Oct 94

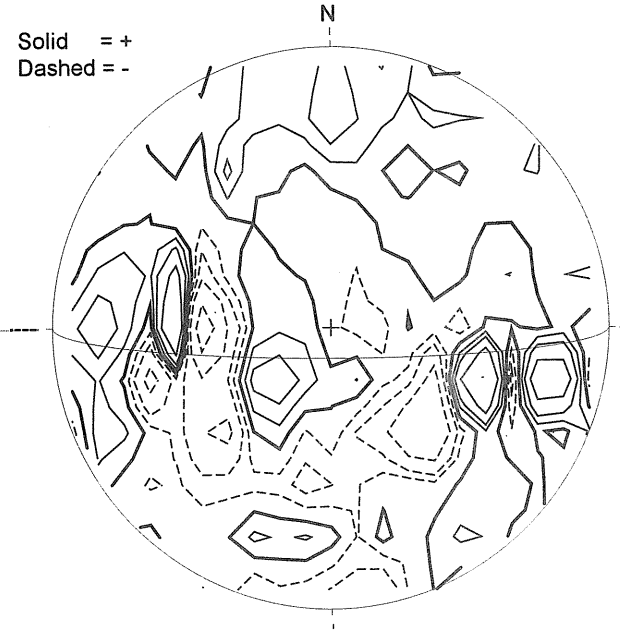
OCTOBER 8, 1994 (P= 26.28, Bo = 6.35, Lo = 29.47)

KITT PEAK MAGNETOGRAM



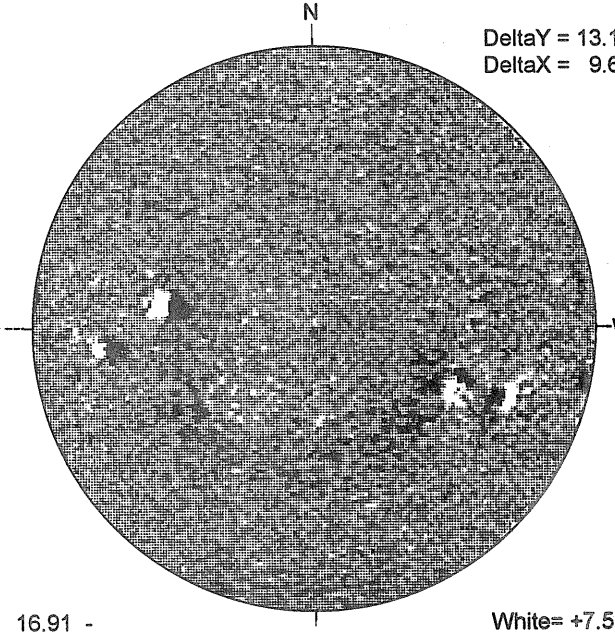
1424 UT

STANFORD MAGNETOGRAM



1930 UT

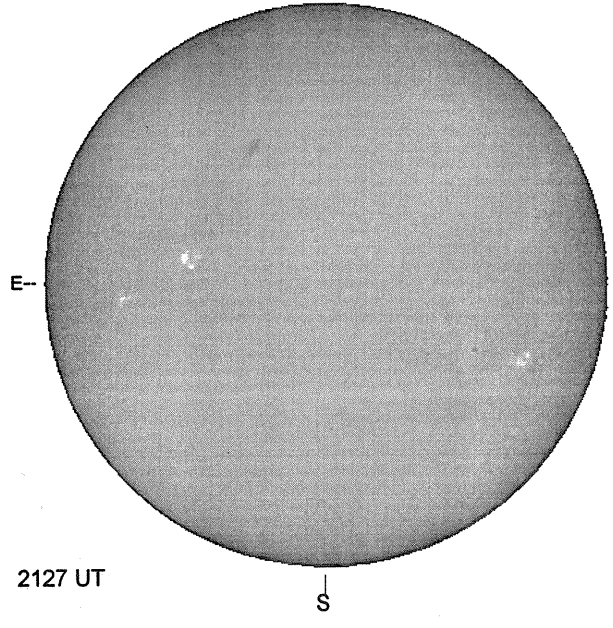
MT. WILSON MAGNETOGRAM



16.91 -
17.85 UT

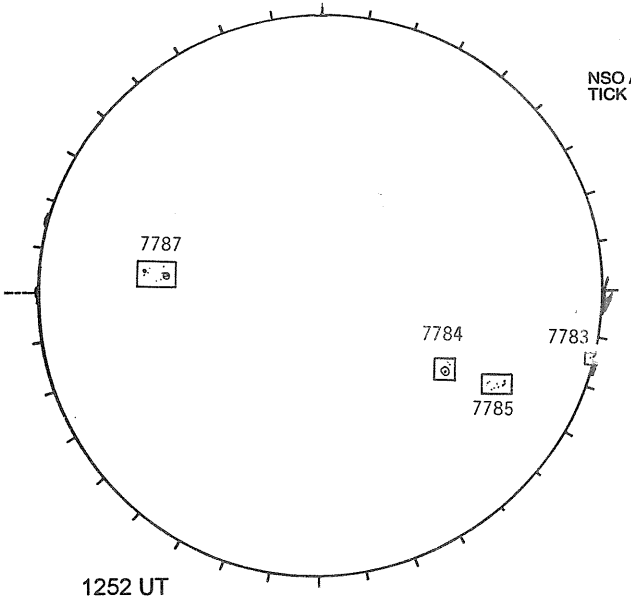
White= +7.5G
Black = -7.5G

MAUNA LOA H-ALPHA



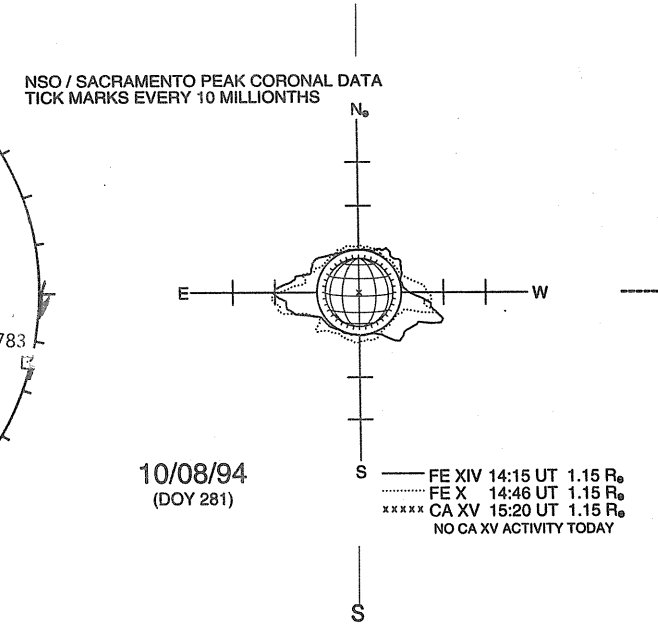
2127 UT

RAMEY SUNSPOT



1252 UT
0649 UT LOMN Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)

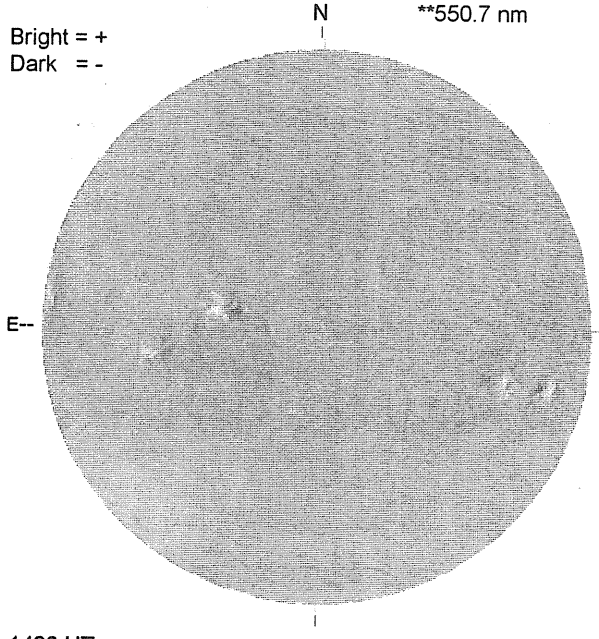


10/08/94
(DOY 281)

FE XIV 14:15 UT 1.15 R
FE X 14:46 UT 1.15 R
CA XV 15:20 UT 1.15 R
NO CA XV ACTIVITY TODAY

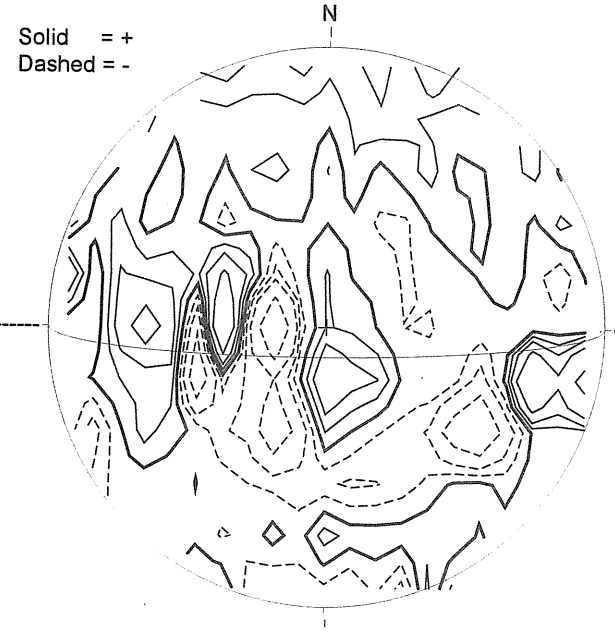
OCTOBER 9, 1994 (P= 26.29, Bo = 6.29, Lo = 16.28)

KITT PEAK MAGNETOGRAM



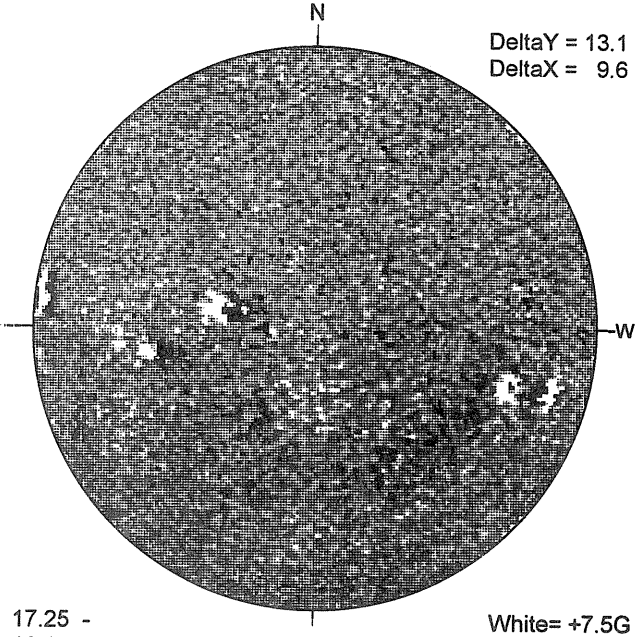
1426 UT

STANFORD MAGNETOGRAM



2227 UT

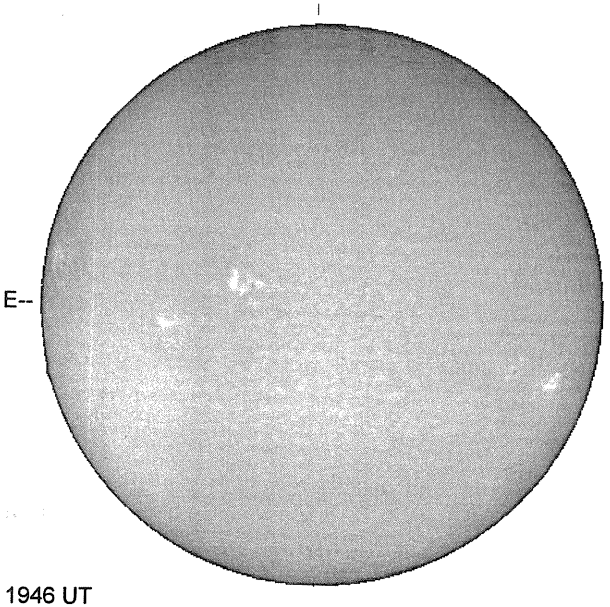
MT. WILSON MAGNETOGRAM



17.25 - 18.19 UT

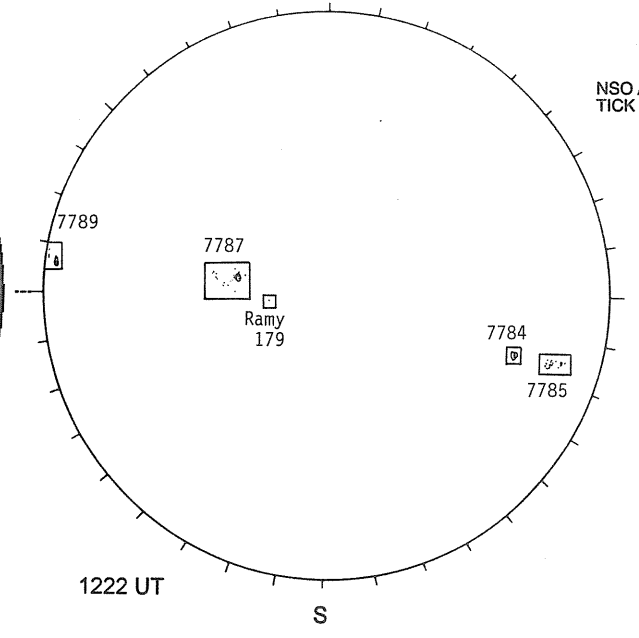
White= +7.5G
Black = -7.5G

MAUNA LOA H-ALPHA



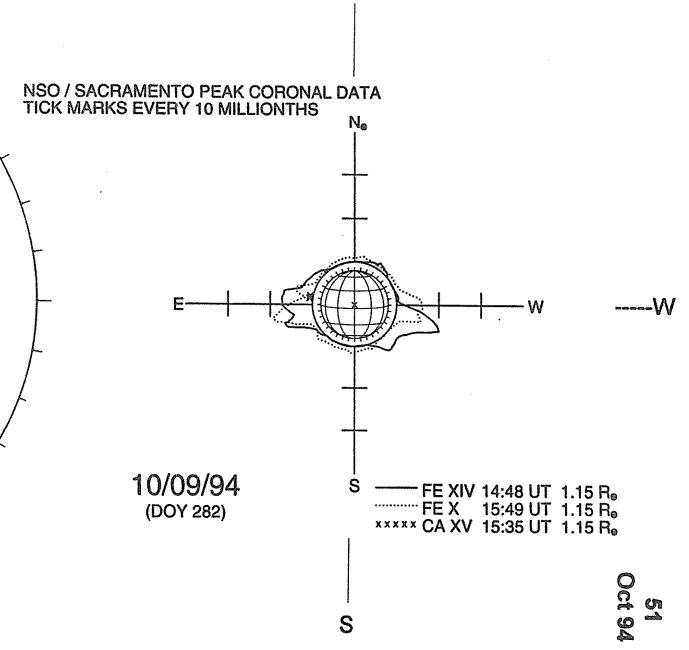
1946 UT

RAMEY SUNSPOT



1222 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

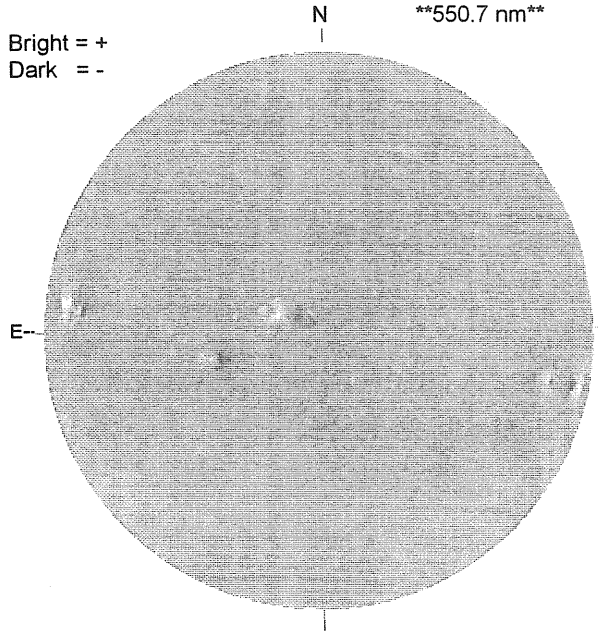


10/09/94
(DOY 282)

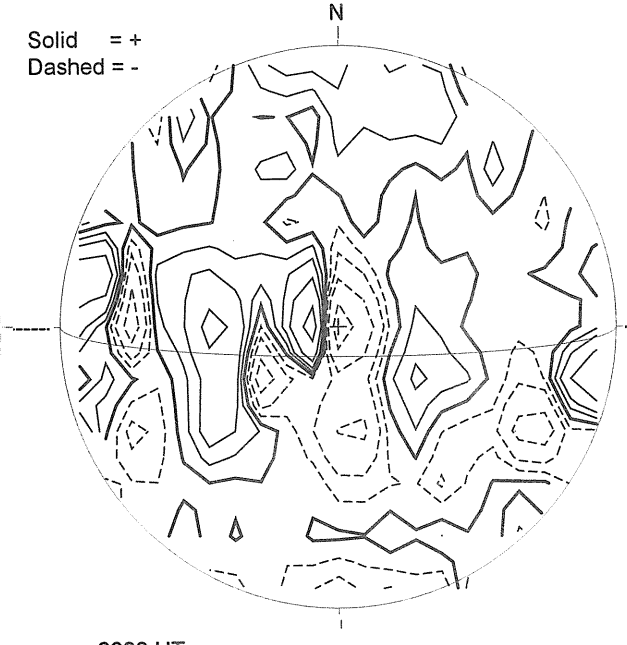
51
Oct 94

OCTOBER 10, 1994 (P= 26.30, Bo = 6.23, Lo = 3.09)

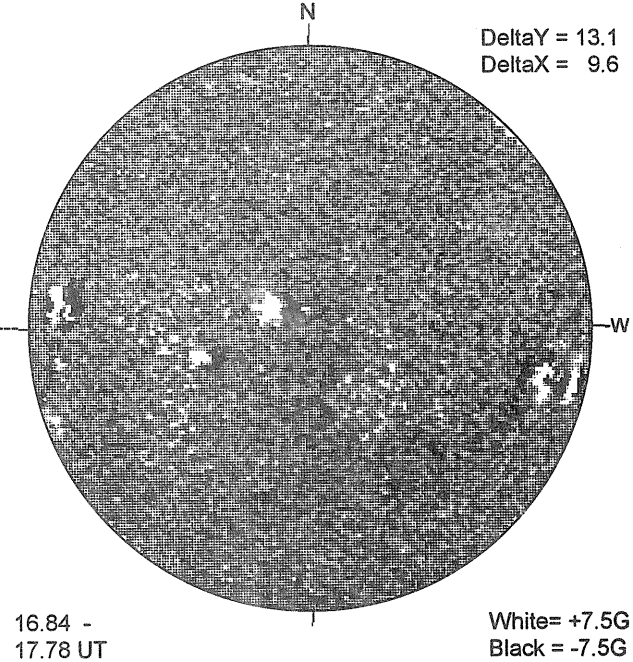
KITT PEAK MAGNETOGRAM



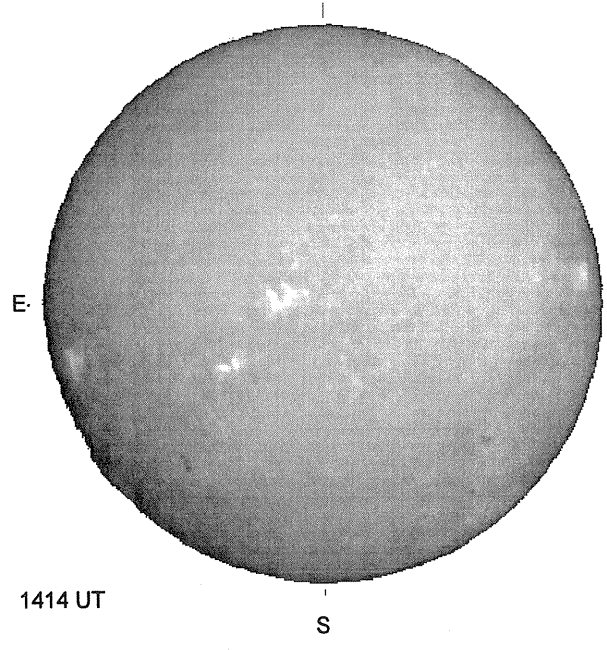
STANFORD MAGNETOGRAM



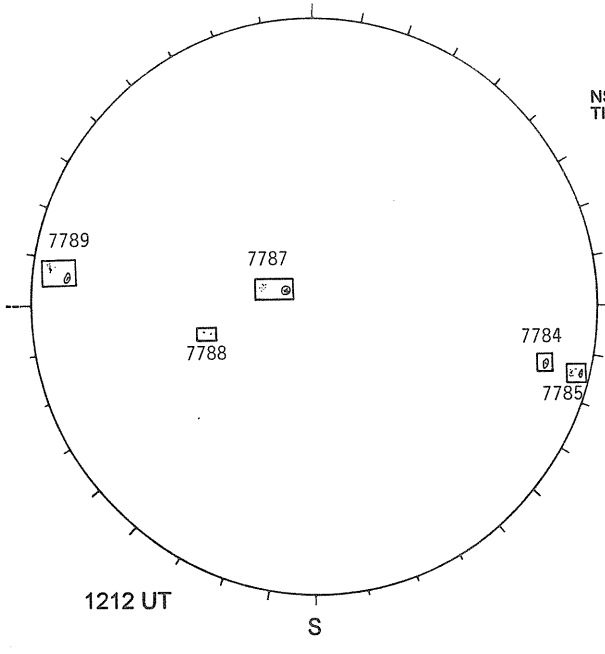
MT. WILSON MAGNETOGRAM



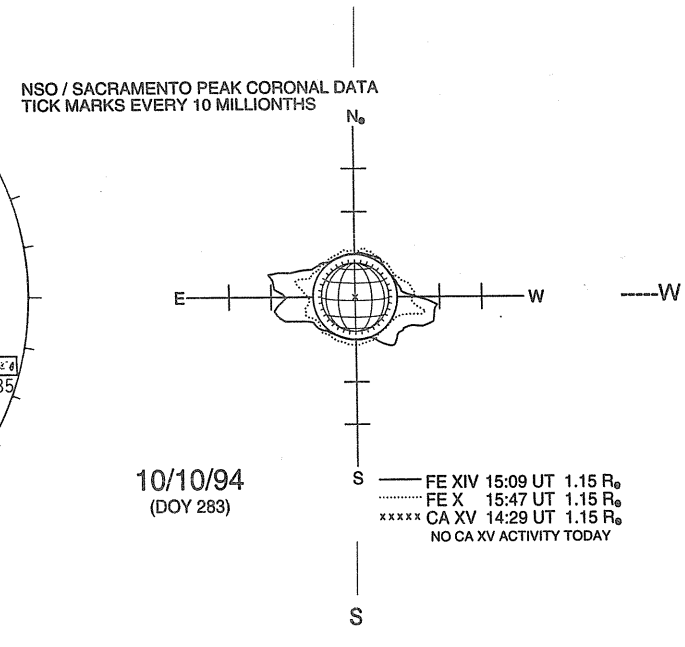
SACRAMENTO PEAK H-ALPHA



RAMEY SUNSPOT

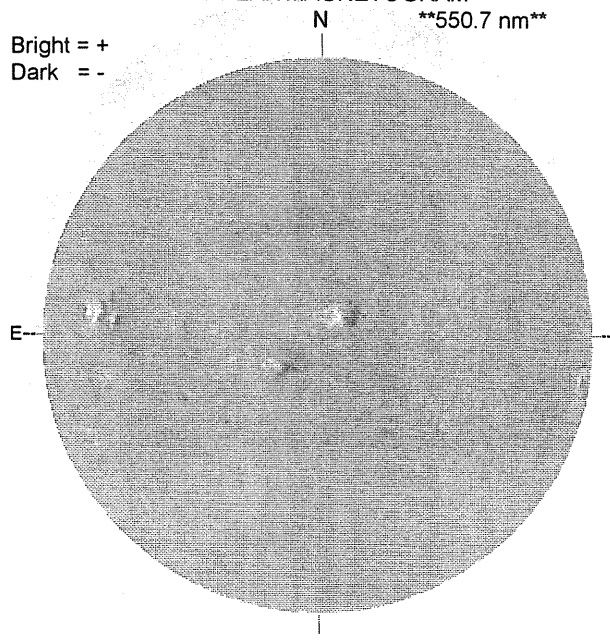


SACRAMENTO PEAK CORONA (1.15 Radii)



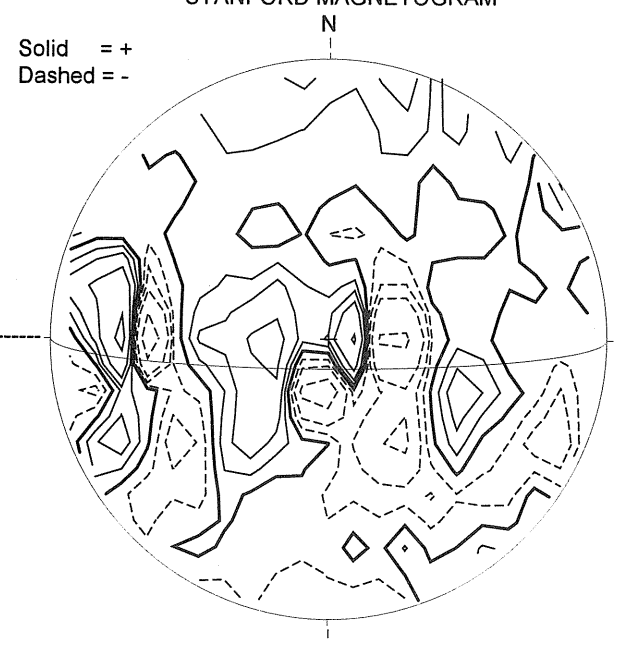
OCTOBER 11, 1994 (P= 26.30 Bo = 6.16, Lo = 349.89)

KITT PEAK MAGNETOGRAM



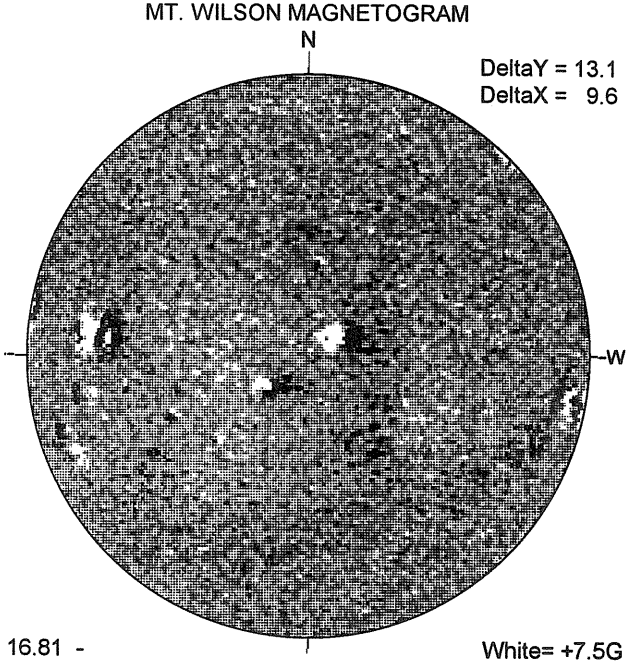
1428 UT

STANFORD MAGNETOGRAM



2127 UT

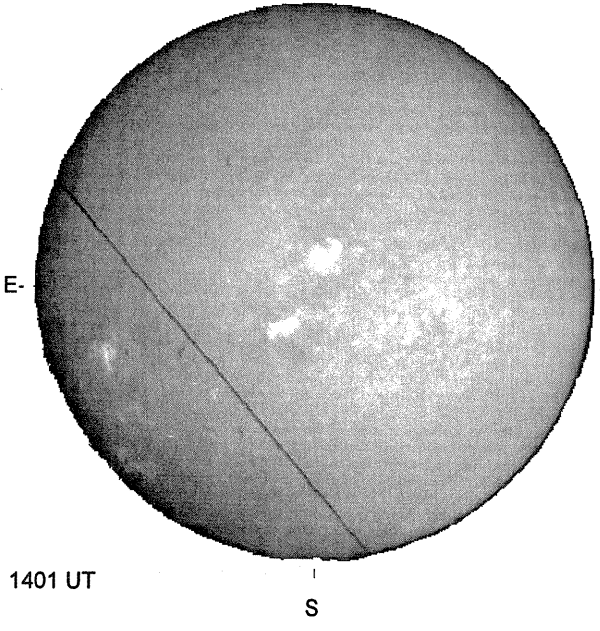
MT. WILSON MAGNETOGRAM



16.81 -
17.75 UT

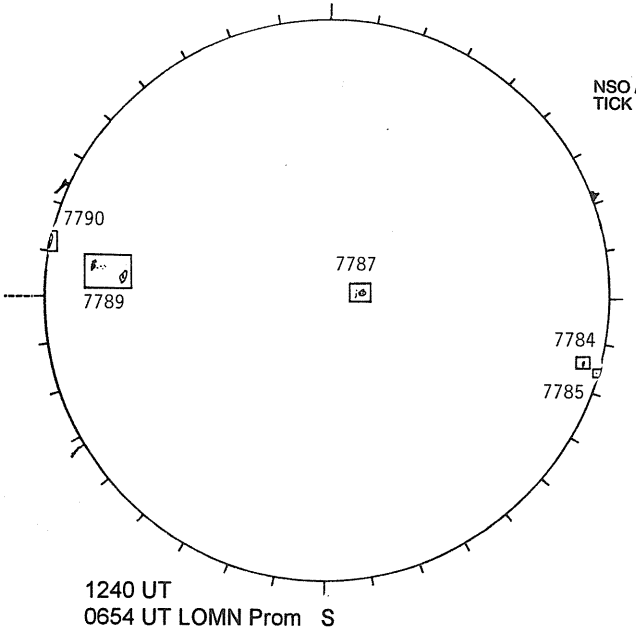
White= +7.5G
Black = -7.5G

----- SACRAMENTO PEAK H-ALPHA



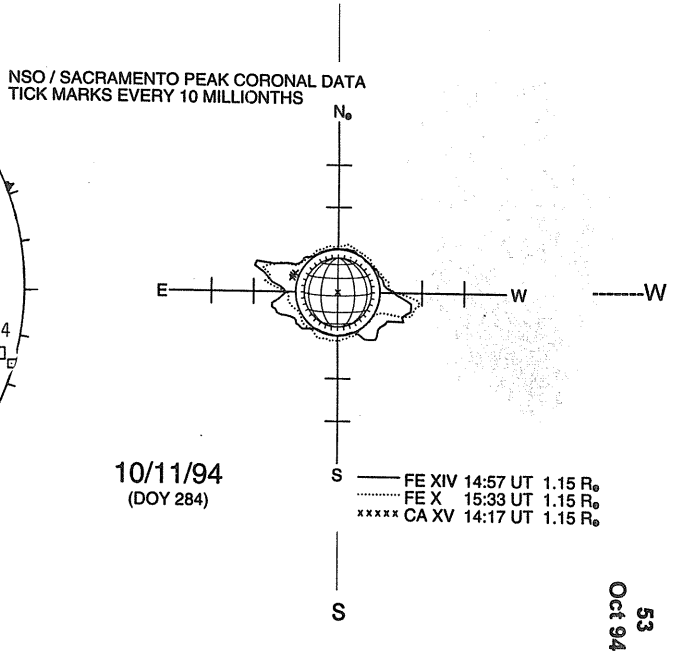
1401 UT

RAMEY SUNSPOT



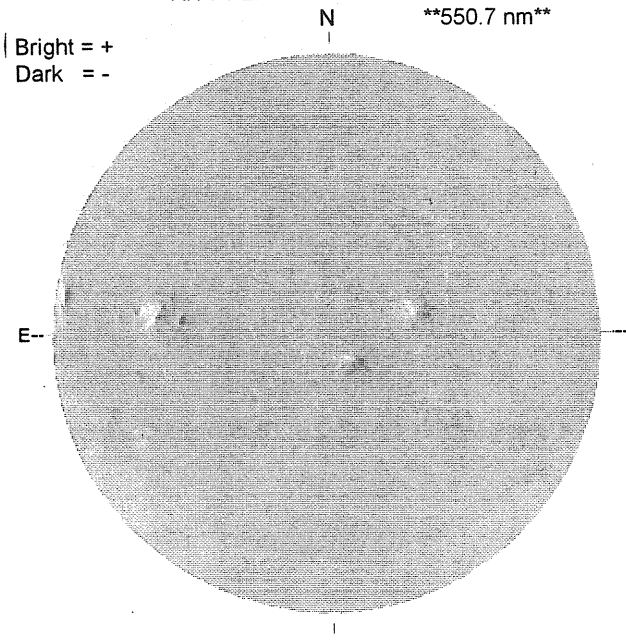
1240 UT
0654 UT LOMN Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)----



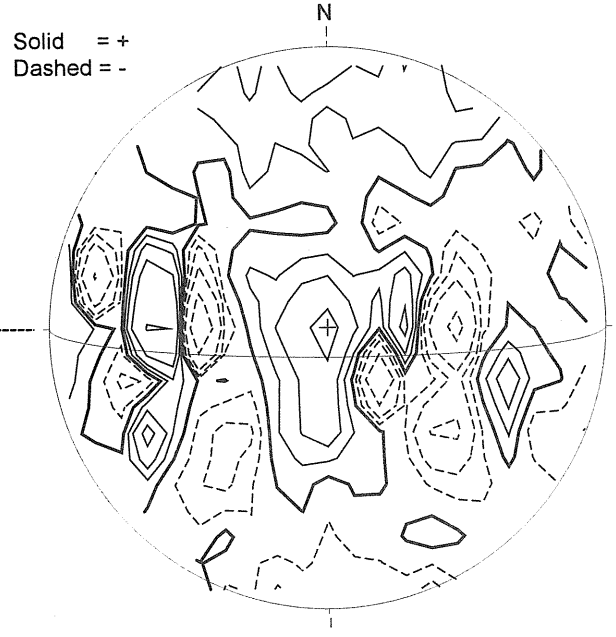
OCTOBER 12, 1994 (P= 26.29, Bo = 6.09, Lo = 336.70)

KITT PEAK MAGNETOGRAM



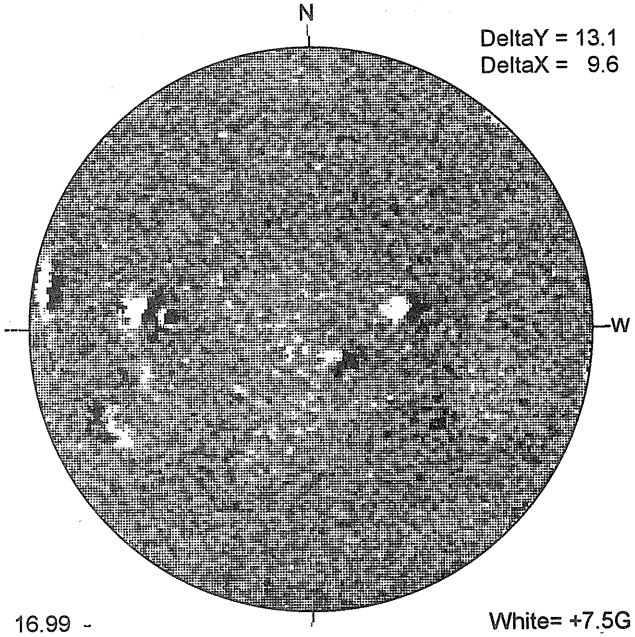
1418 UT

STANFORD MAGNETOGRAM



2035 UT

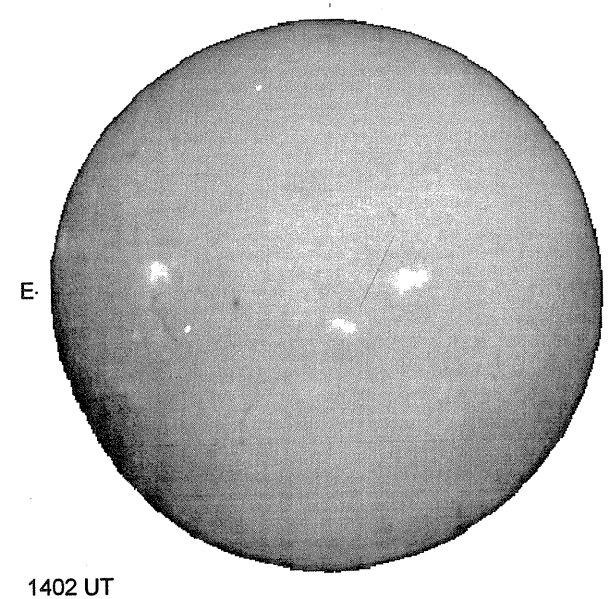
MT. WILSON MAGNETOGRAM



16.99 -
17.93 UT

White= +7.5G
Black = -7.5G

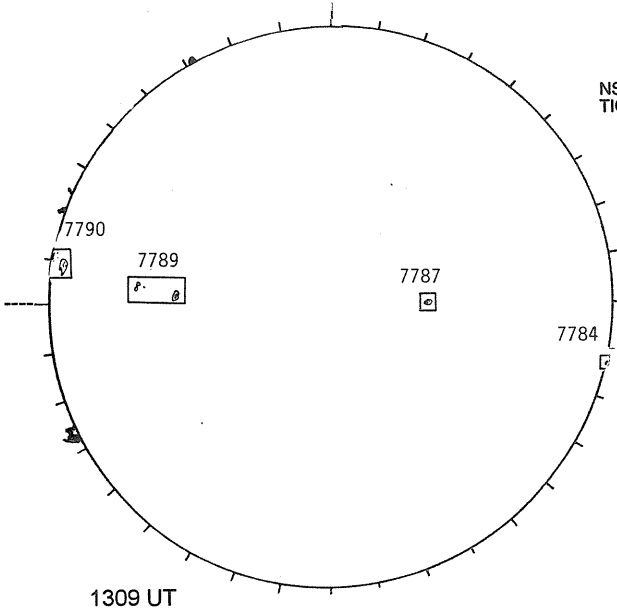
SACRAMENTO PEAK H-ALPHA



1402 UT

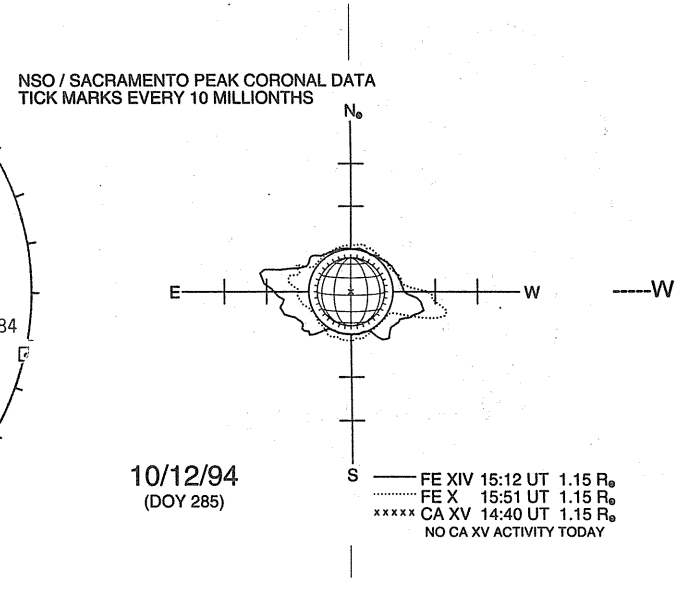
S

RAMEY SUNSPOT



1309 UT
0612 UT LOMN Prom S

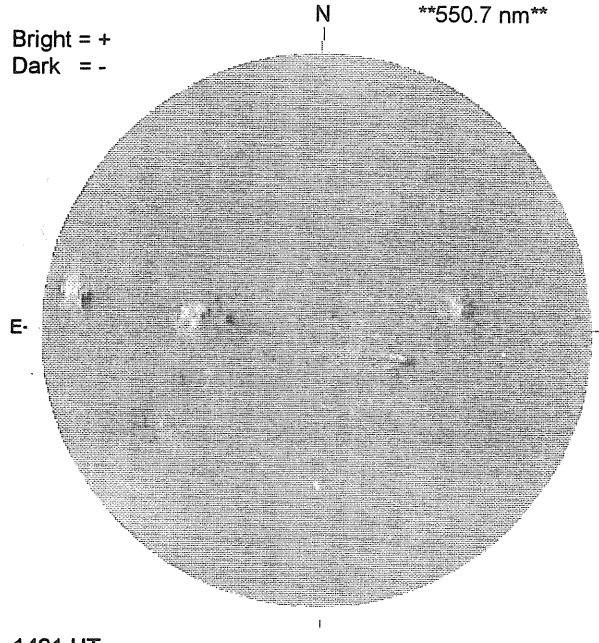
SACRAMENTO PEAK CORONA (1.15 Radii)----



S

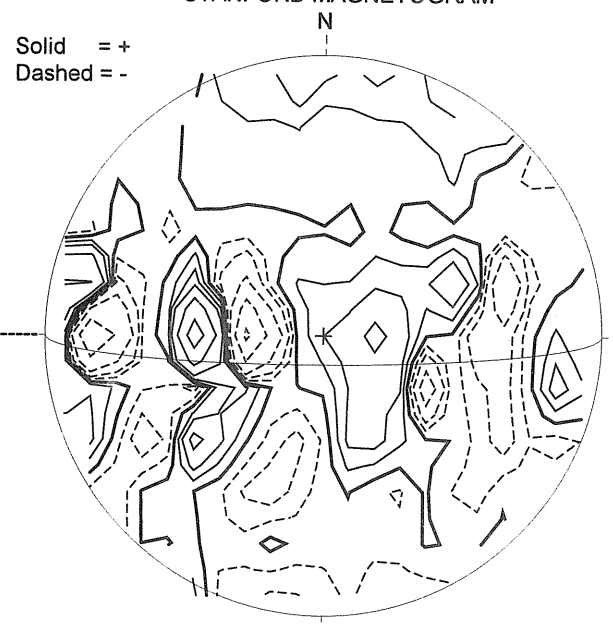
OCTOBER 13, 1994 (P= 26.28, Bo = 6.03, Lo = 323.51)

KITT PEAK MAGNETOGRAM



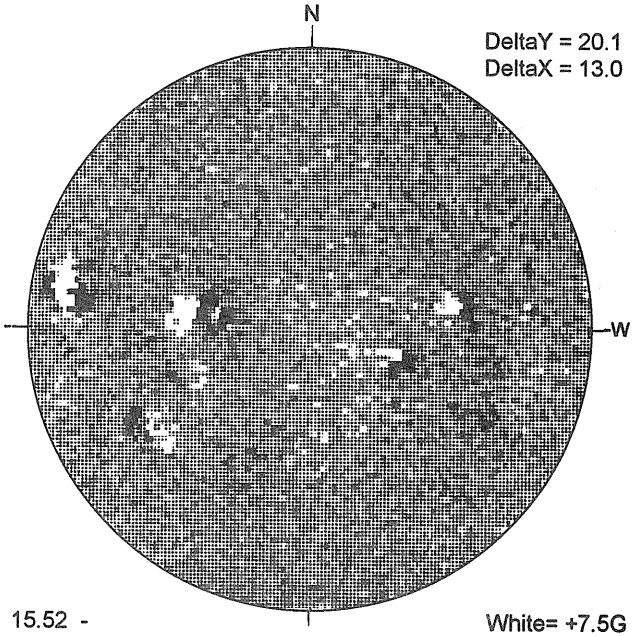
1421 UT

STANFORD MAGNETOGRAM



1831 UT

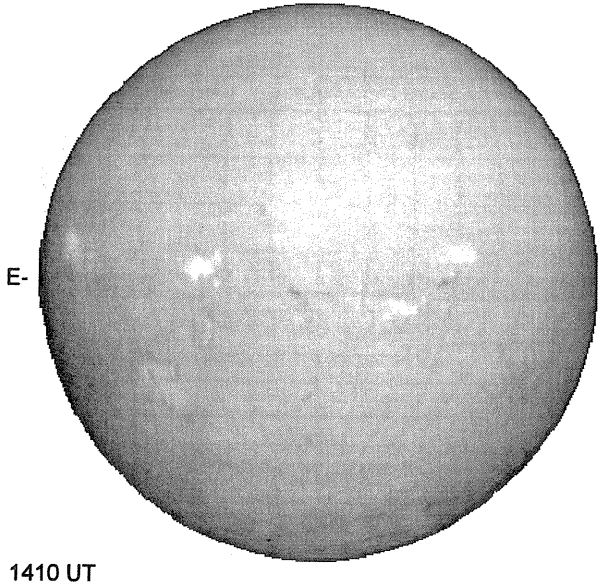
MT. WILSON MAGNETOGRAM



15.52 - 15.94 UT

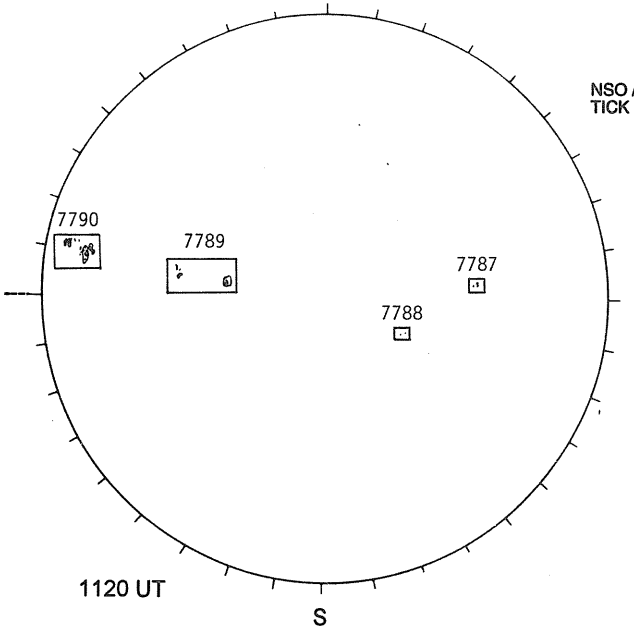
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



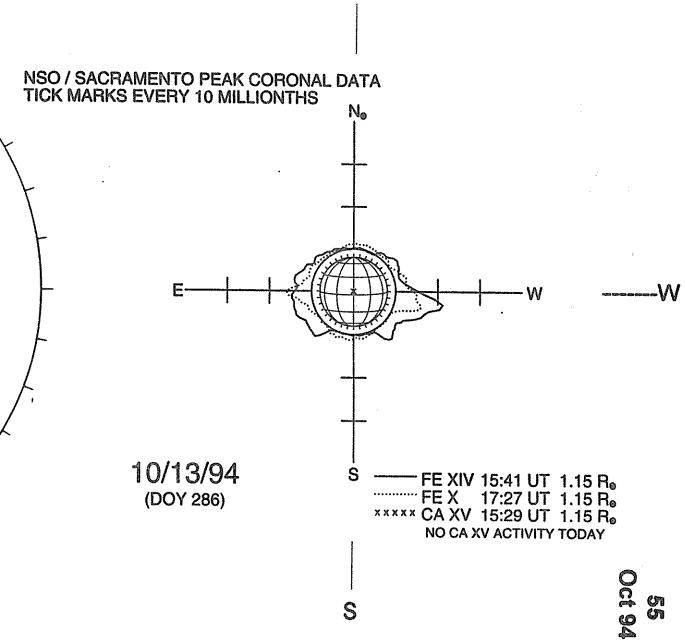
1410 UT

RAMEY SUNSPOT



1120 UT

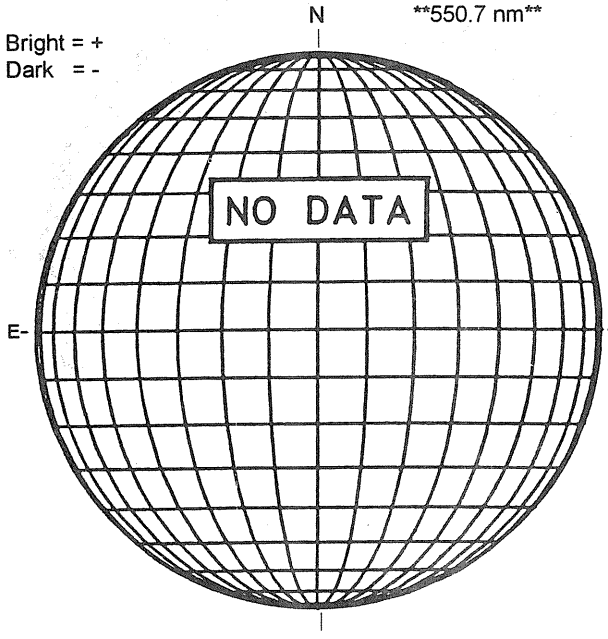
SACRAMENTO PEAK CORONA (1.15 Radii)----



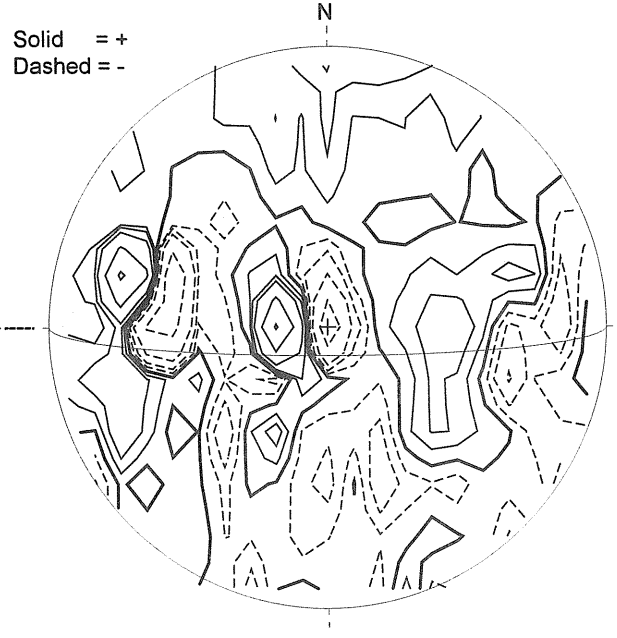
55
Oct 94

OCTOBER 14, 1994 (P= 26.26, Bo = 5.95, Lo = 310.32)

KITT PEAK MAGNETOGRAM

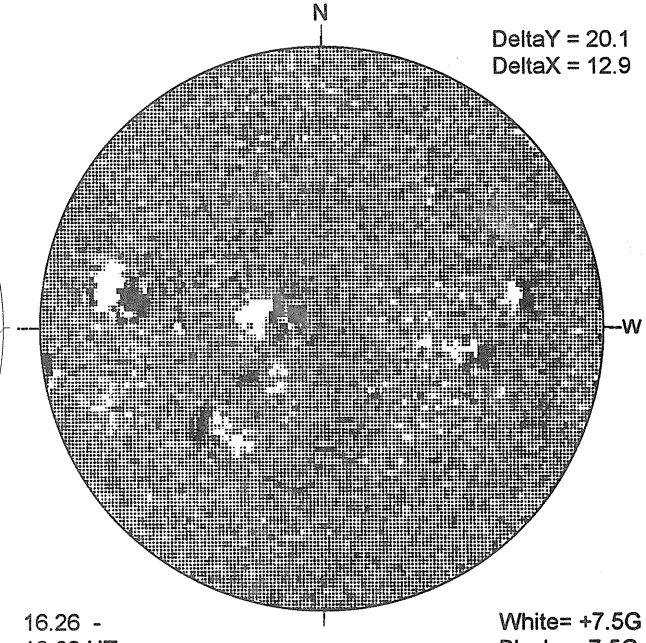


STANFORD MAGNETOGRAM



2239 UT

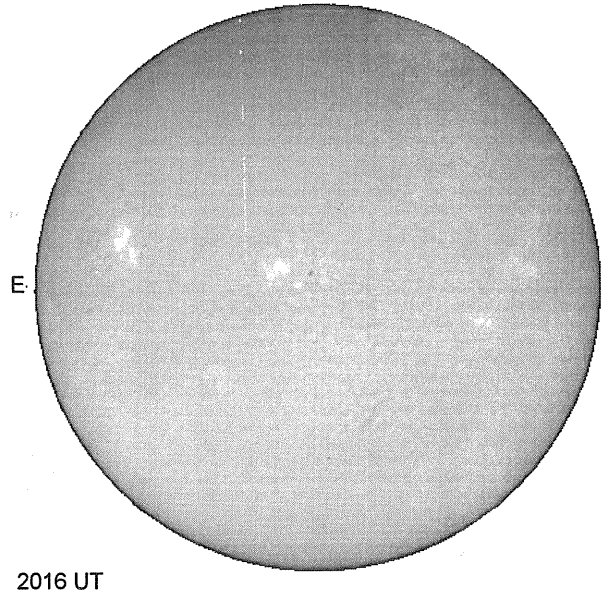
MT. WILSON MAGNETOGRAM



16.26 -
16.68 UT

White= +7.5G
Black = -7.5G

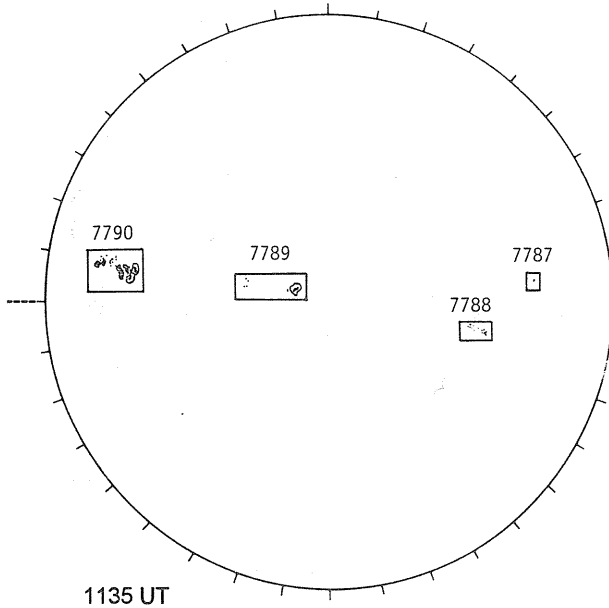
MAUNA LOA H-ALPHA



2016 UT

S

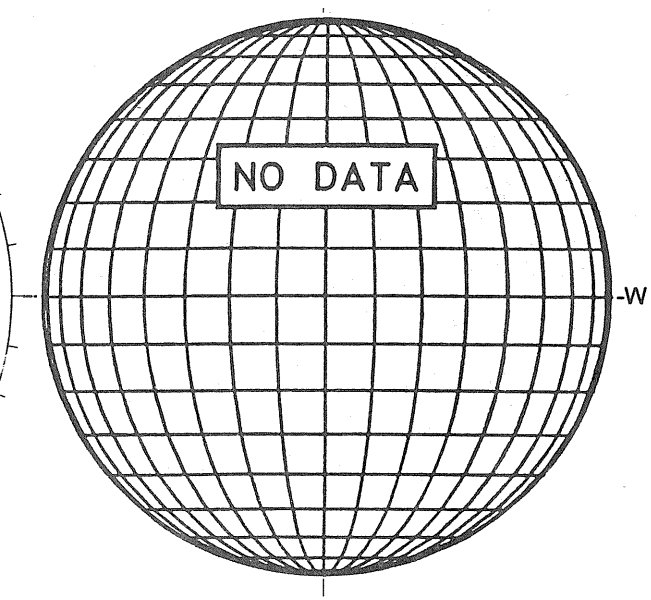
RAMEY SUNSPOT



1135 UT

S

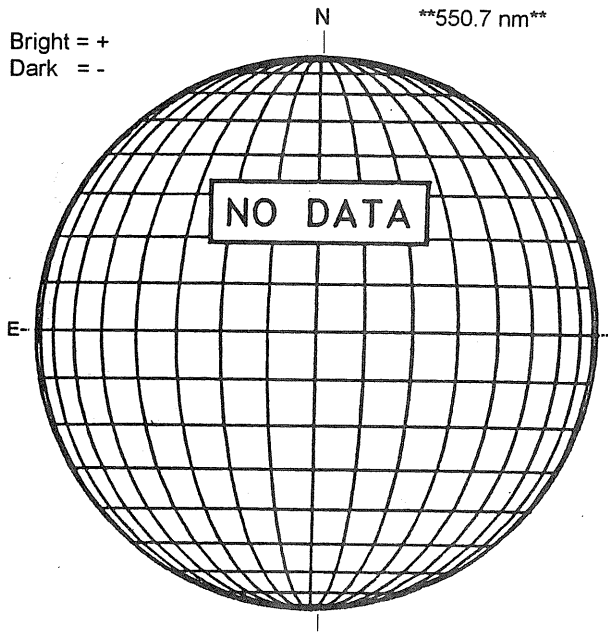
SACRAMENTO PEAK CORONA (1.15 Radii)



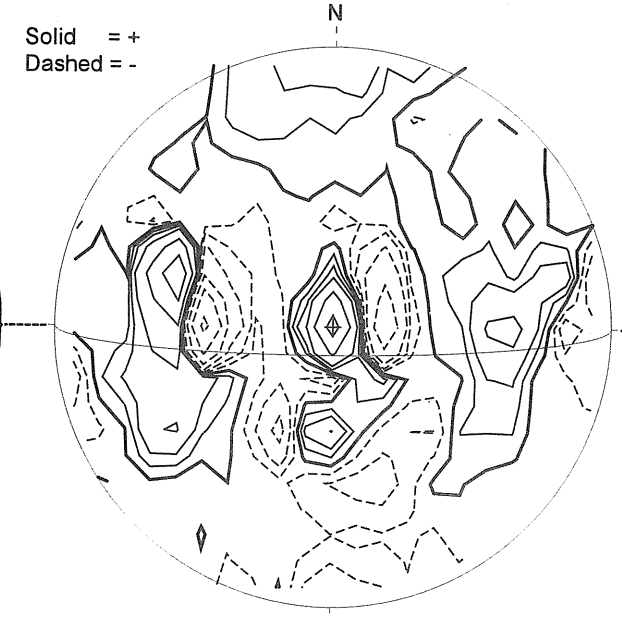
S

OCTOBER 15, 1994 (P= 26.23, Bo = 5.88, Lo = 297.13)

KITT PEAK MAGNETOGRAM

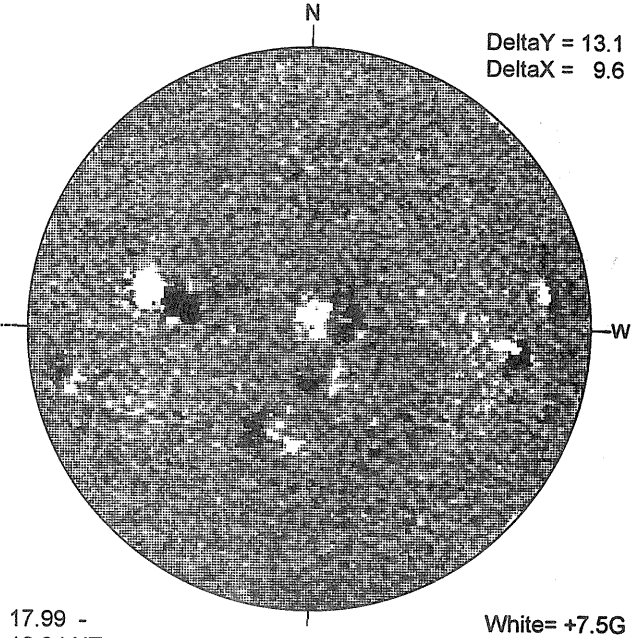


STANFORD MAGNETOGRAM



1838 UT

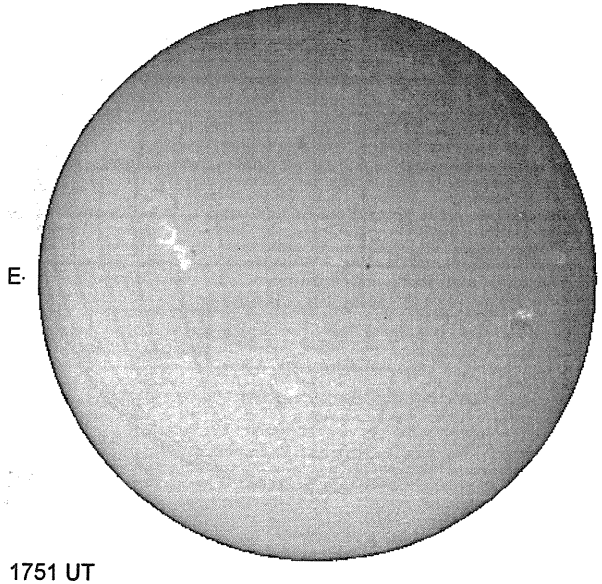
MT. WILSON MAGNETOGRAM



17.99 -
18.94 UT

White= +7.5G
Black = -7.5G

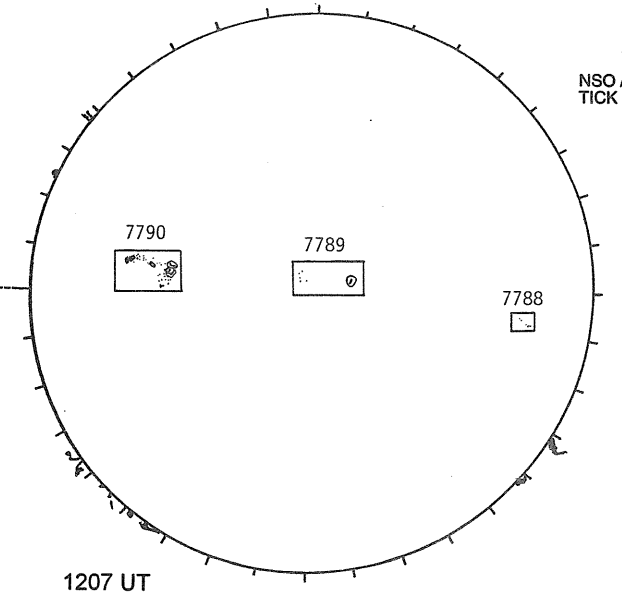
MAUNA LOA H-ALPHA



1751 UT

S

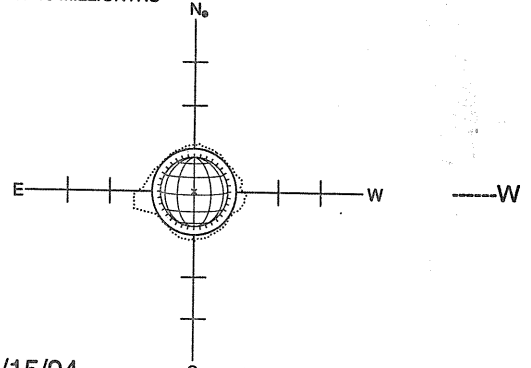
RAMEY SUNSPOT



1207 UT
0606 UT LOMN Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)----

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



10/15/94
(DOY 288)

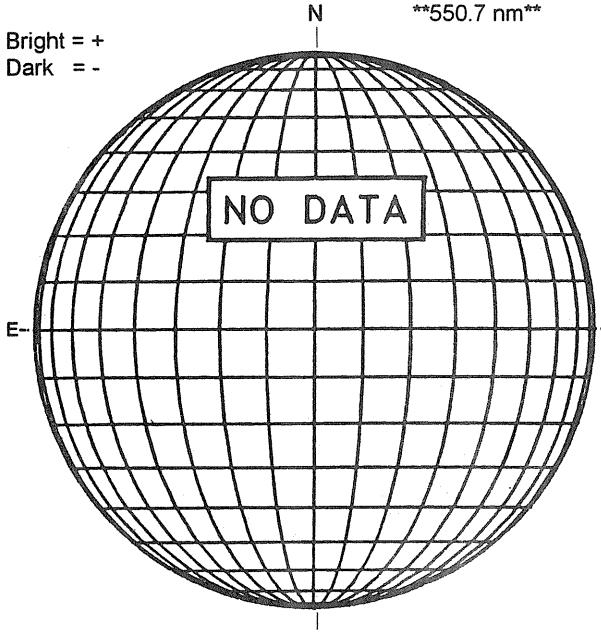
FE X 18:10 UT 1.15 R
CA XV 17:16 UT 1.15 R
NO CA XV ACTIVITY TODAY

S

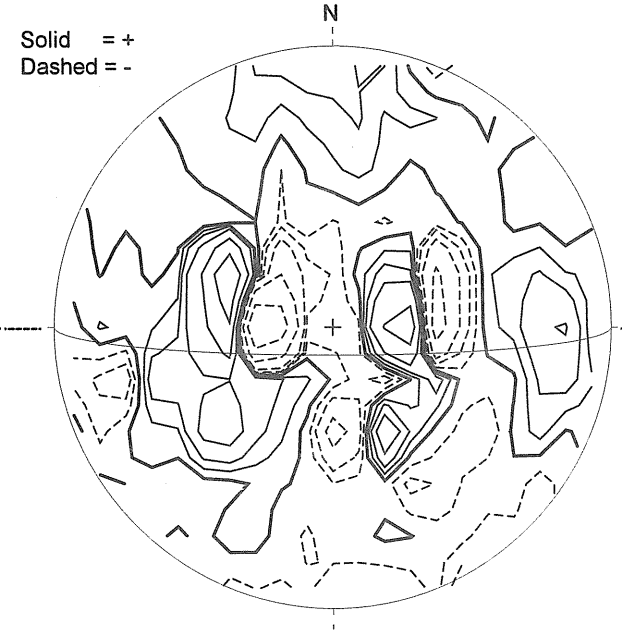
57
Oct 94

OCTOBER 16, 1994 (P= 26.19, Bo = 5.81, Lo = 283.94)

KITT PEAK MAGNETOGRAM

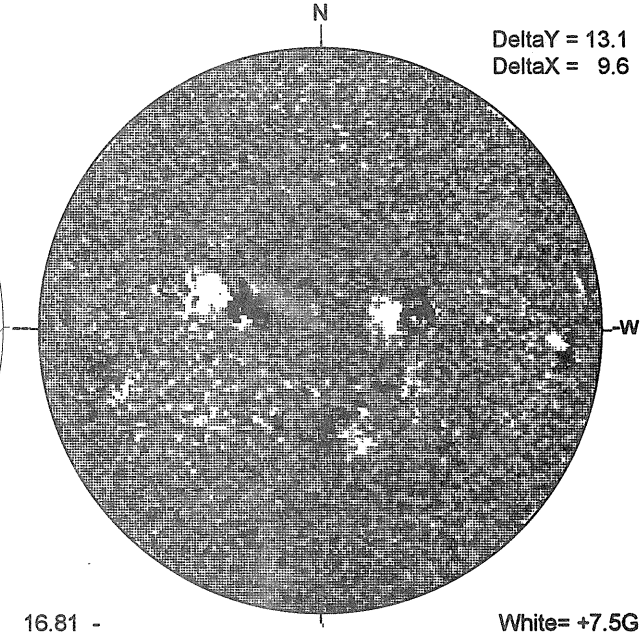


STANFORD MAGNETOGRAM



1837 UT

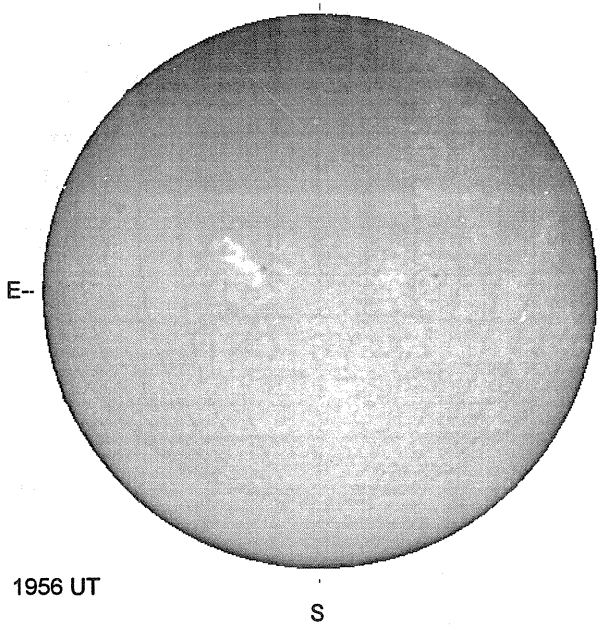
MT. WILSON MAGNETOGRAM



16.81 -
17.75 UT

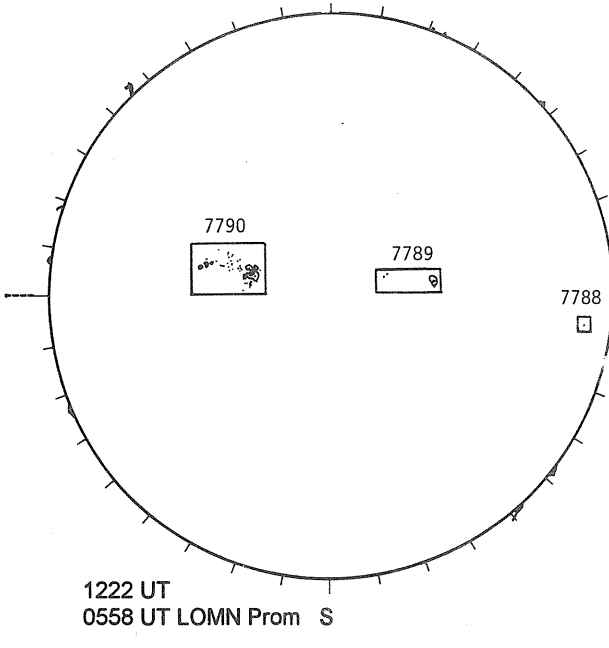
White= +7.5G
Black = -7.5G

MAUNA LOA H-ALPHA



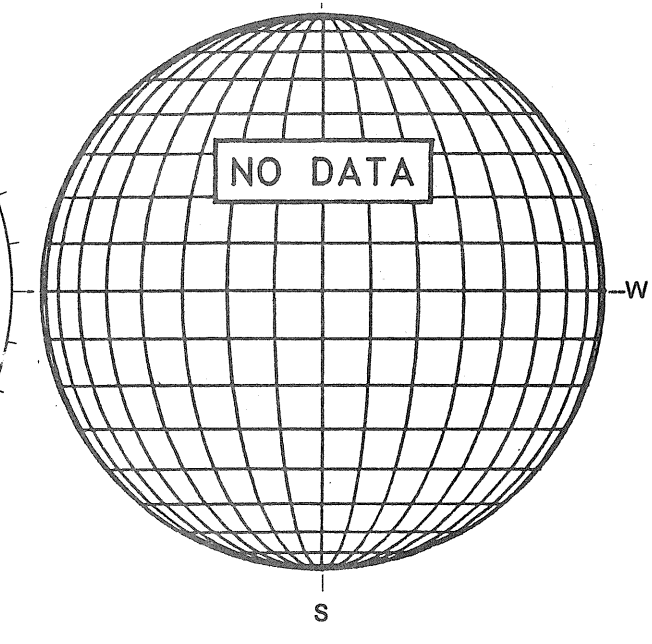
1956 UT

RAMEY SUNSPOT



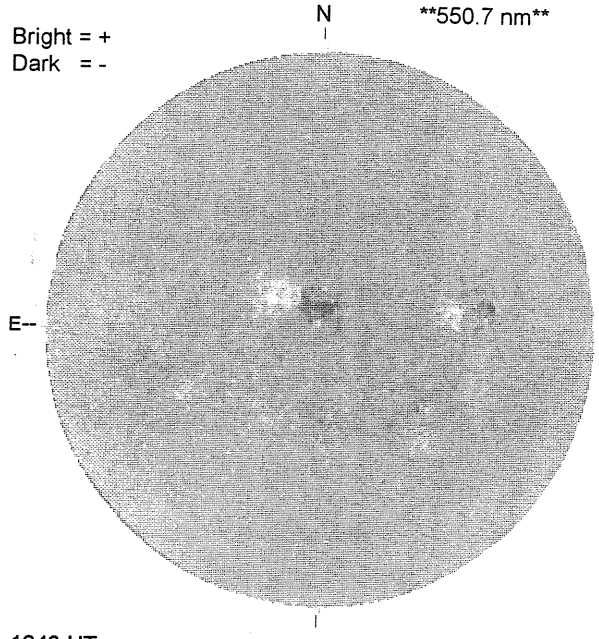
1222 UT
0558 UT LOMN Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)



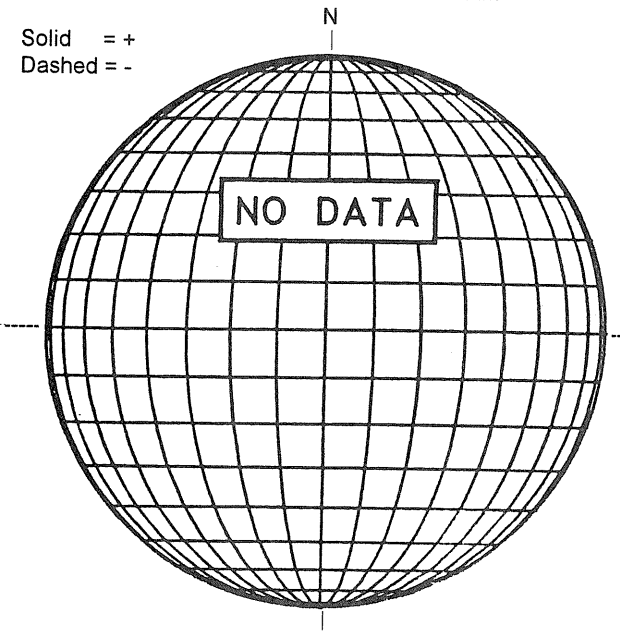
OCTOBER 17, 1994 (P= 26.15, Bo = 5.73, Lo = 270.75)

KITT PEAK MAGNETOGRAM

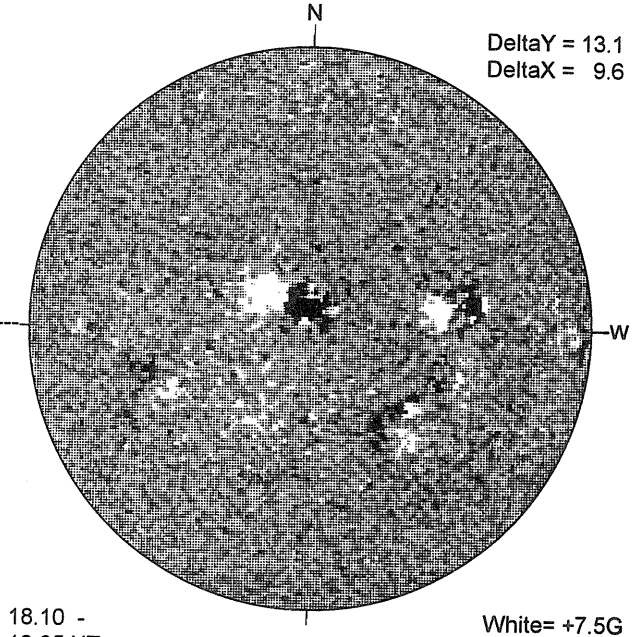


1643 UT

STANFORD MAGNETOGRAM



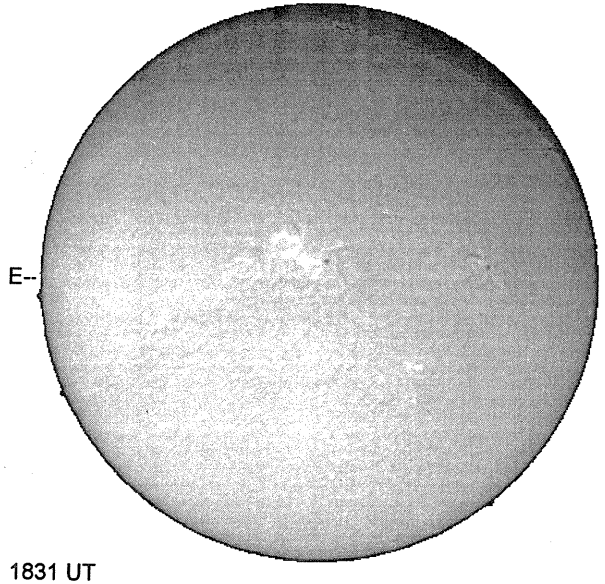
MT. WILSON MAGNETOGRAM



18.10 -
19.05 UT

White= +7.5G
Black = -7.5G

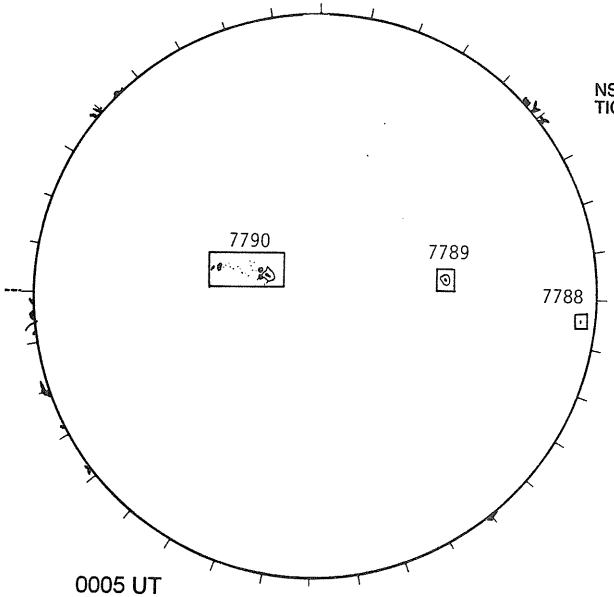
MAUNA LOA H-ALPHA



1831 UT

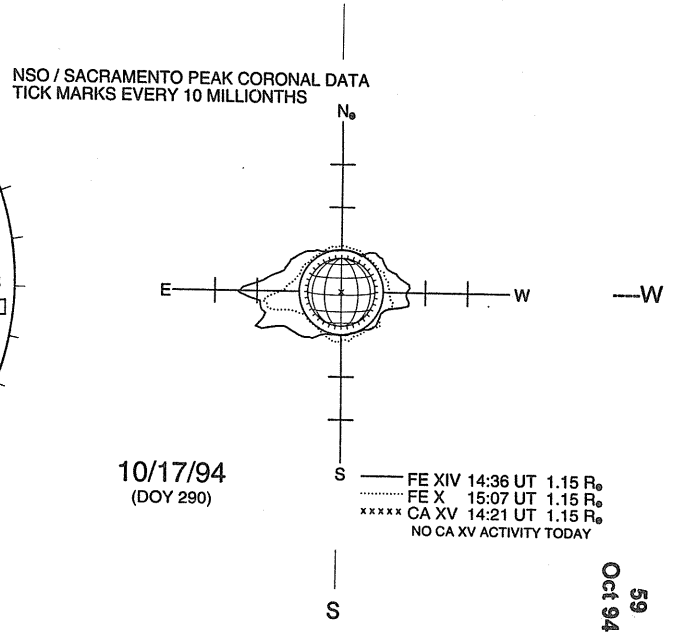
S

LEARMONTH SUNSPOT



0005 UT
1343 UT LOMN Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)----



S

59
Oct 94

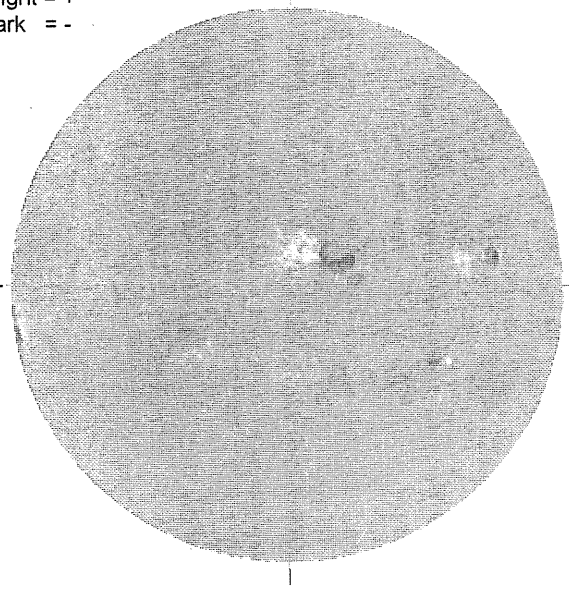
OCTOBER 18, 1994 (P= 26.09, Bo = 5.65, Lo = 257.56)

KITT PEAK MAGNETOGRAM

N

550.7 nm

Bright = +
Dark = -



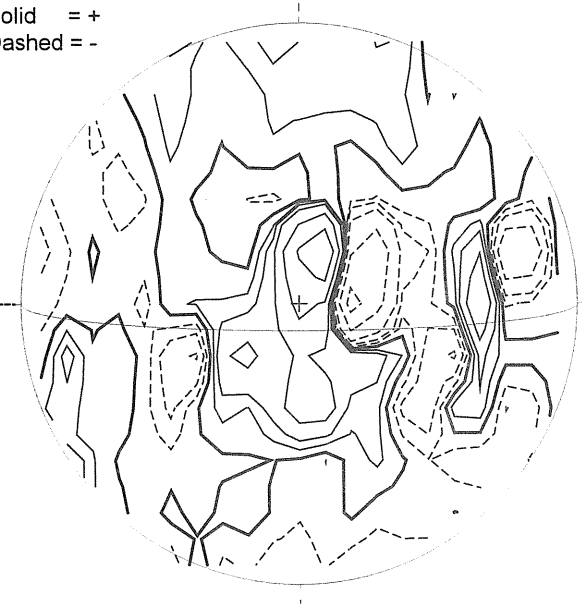
E--

1547 UT

STANFORD MAGNETOGRAM

N

Solid = +
Dashed = -

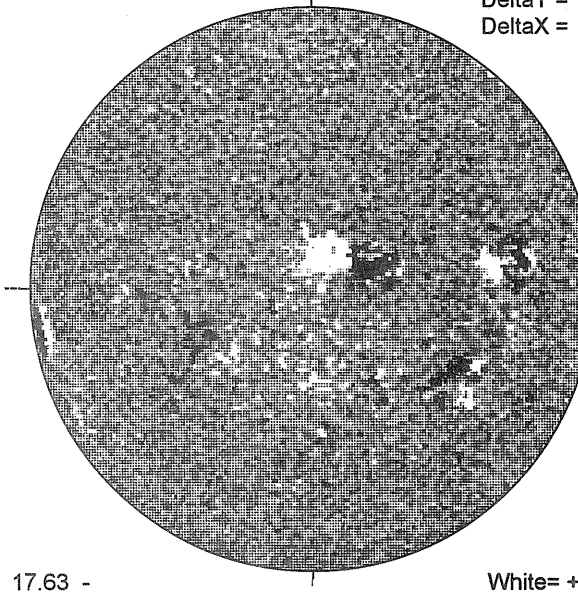


1849 UT

MT. WILSON MAGNETOGRAM

N

DeltaY = 13.1
DeltaX = 9.6

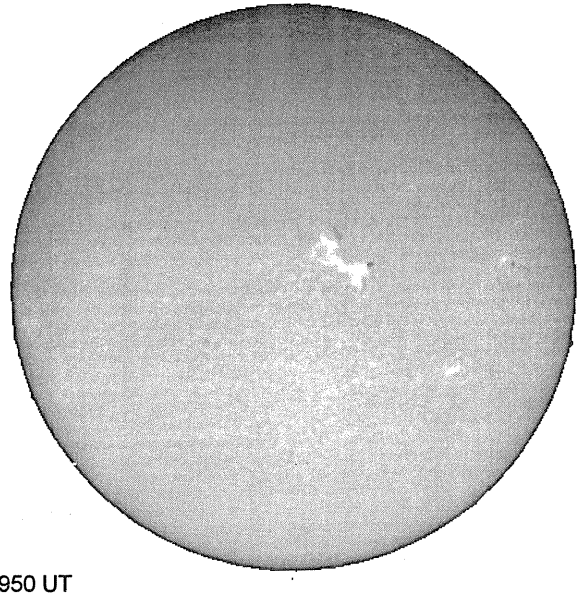


-W

17.63 -
18.58 UT

White= +7.5G
Black = -7.5G

MAUNA LOA H-ALPHA

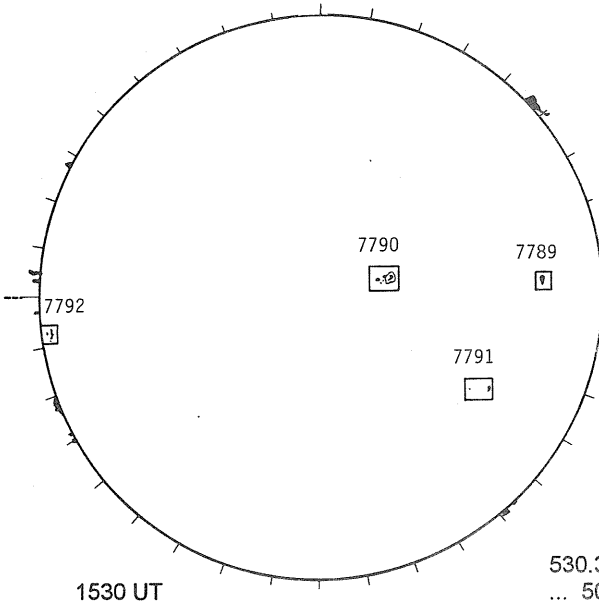


E-

1950 UT

S

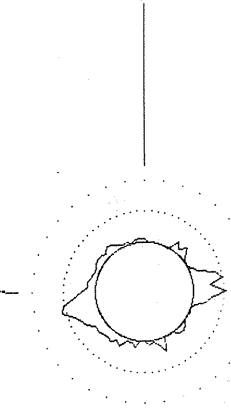
RAMEY SUNSPOT



1530 UT
0621 UT LOMN Prom S

530.3 nm, 0702 UT
... 50 abs. units
. . 100 abs. units

LOMNICKY PEAK CORONA (1.04 Radii)----



-W

S

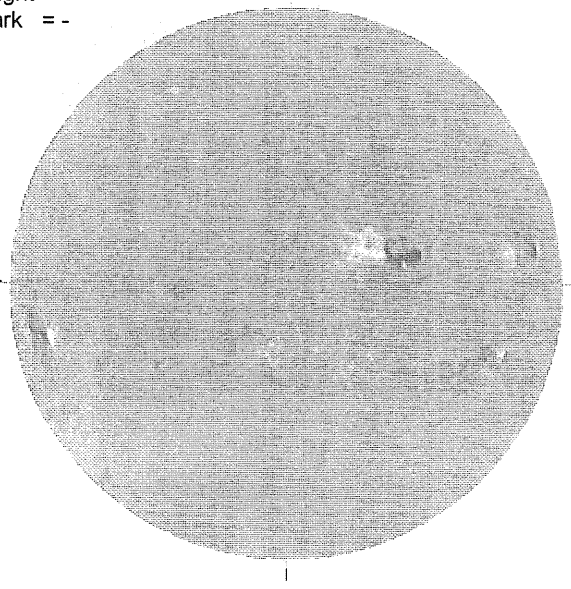
OCTOBER 19, 1994 (P= 26.03, Bo = 5.57, Lo = 244.36)

KITT PEAK MAGNETOGRAM

N

550.7 nm

Bright = +
Dark = -



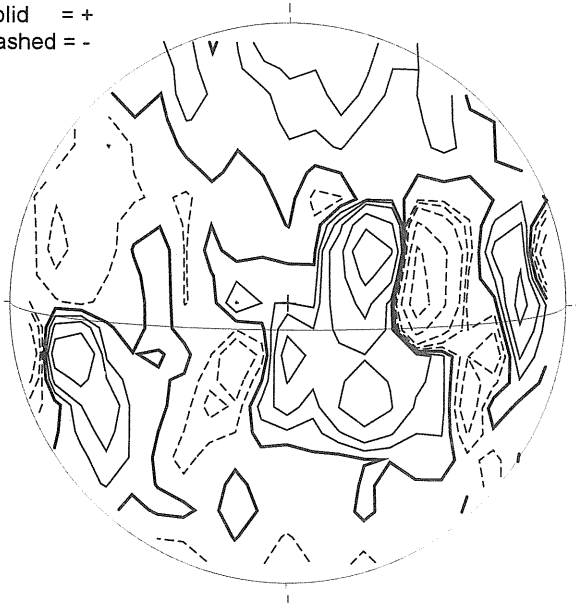
E--

1556 UT

STANFORD MAGNETOGRAM

N

Solid = +
Dashed = -

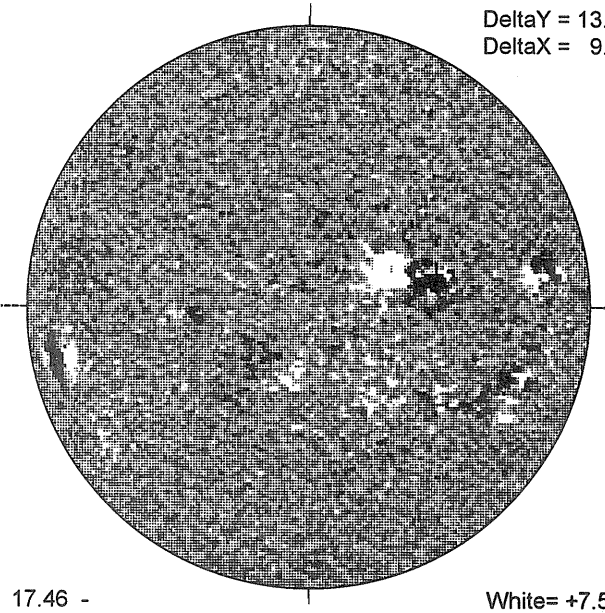


2156 UT

MT. WILSON MAGNETOGRAM

N

DeltaY = 13.1
DeltaX = 9.6

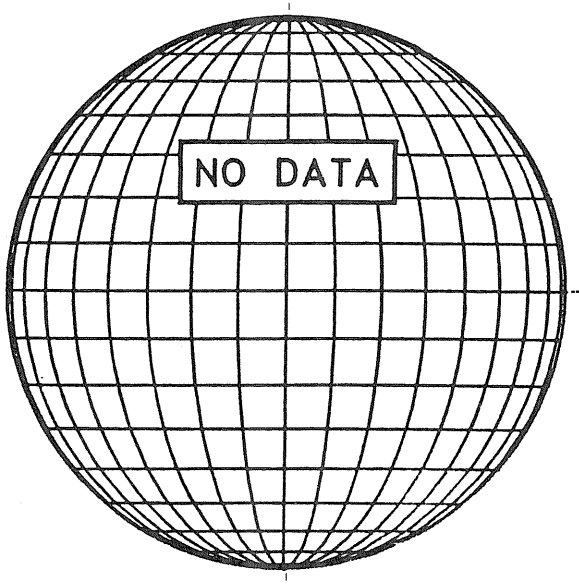


-W

17.46 -
18.41 UT

White= +7.5G
Black = -7.5G

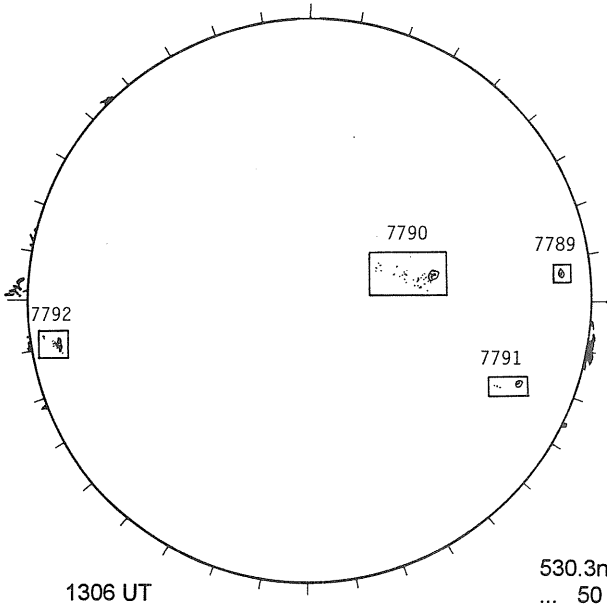
BIG BEAR H-ALPHA



E-

S

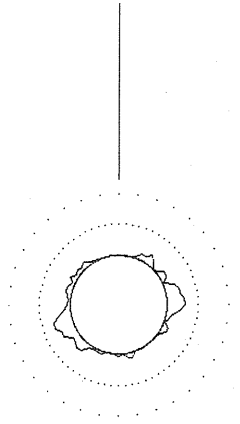
RAMEY SUNSPOT



1306 UT
0642 UT LOMN Prom S

530.3nm, 0811 UT
... 50 abs. units
. . 100 abs. units

LOMNICKY PEAK CORONA (1.04 Radii)----



-W

S

61
Oct 94

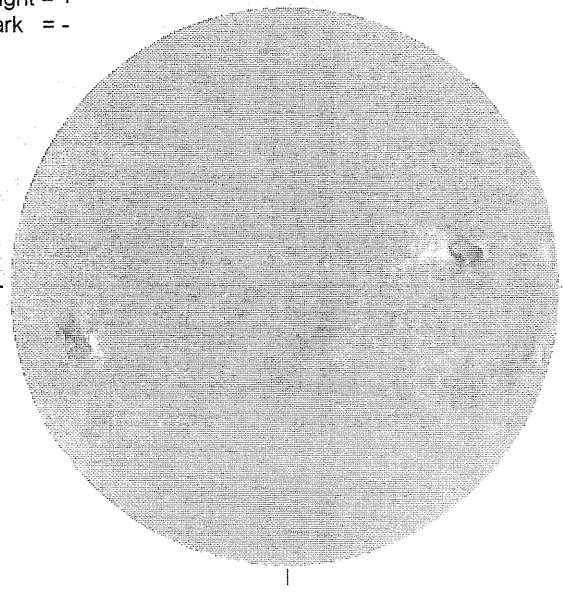
OCTOBER 20, 1994 (P= 25.97, Bo = 5.49, Lo = 231.17)

KITT PEAK MAGNETOGRAM

N **550.7 nm**

Bright = +
Dark = -

E--

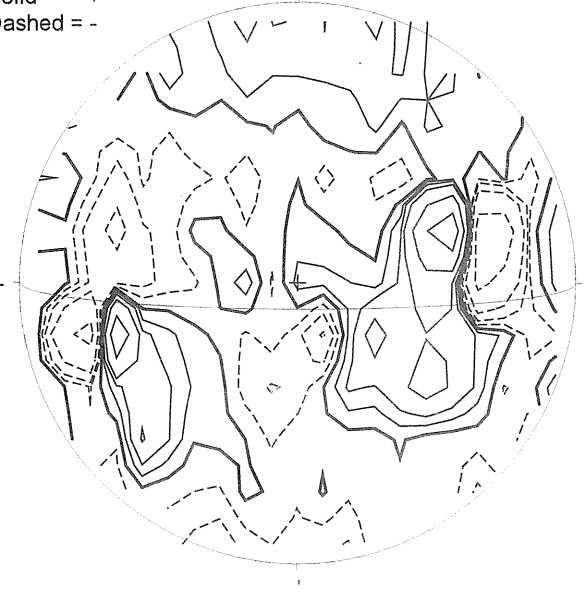


2002 UT

STANFORD MAGNETOGRAM

N

Solid = +
Dashed = -

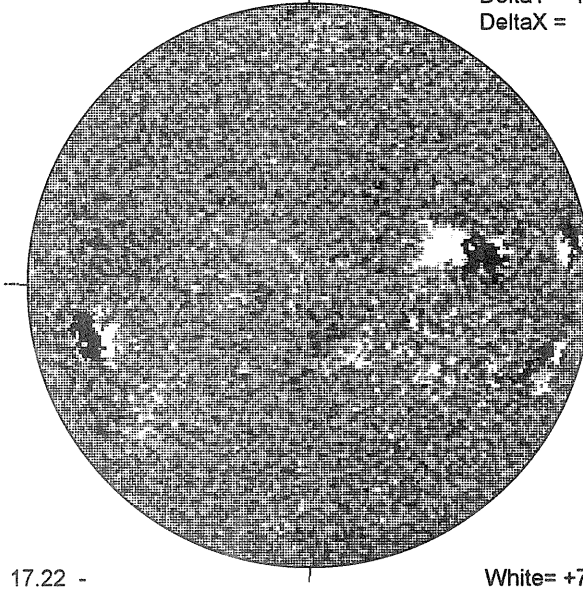


2337 UT

MT. WILSON MAGNETOGRAM

N

DeltaY = 13.1
DeltaX = 9.6



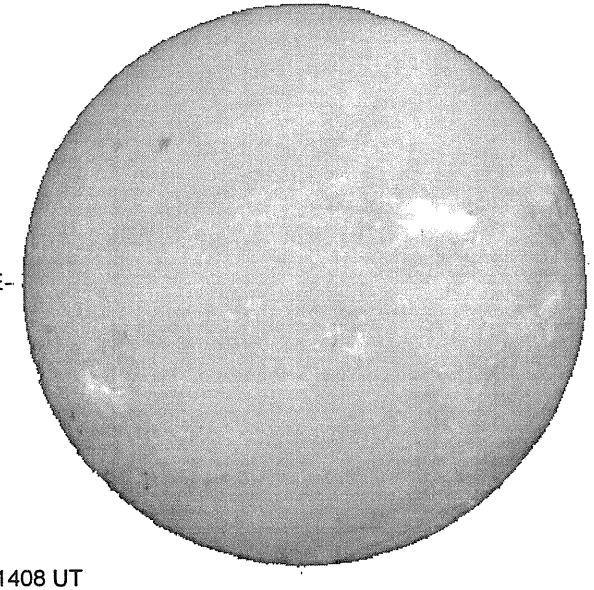
W

17.22 -
18.17 UT

White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA

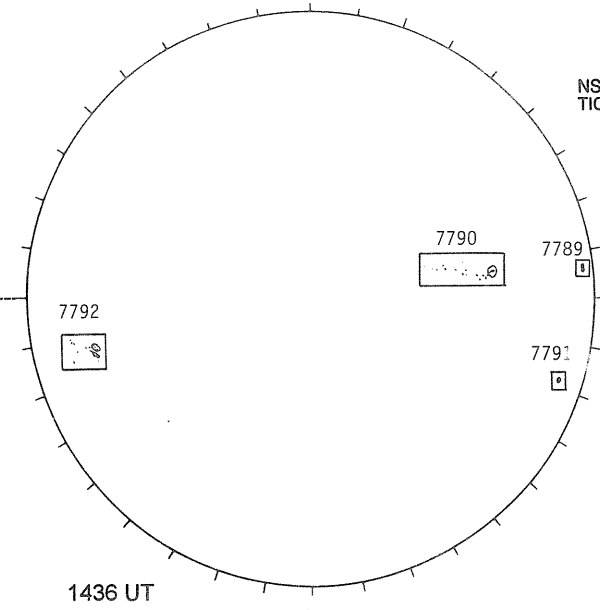
E-



1408 UT

S

RAMEY SUNSPOT

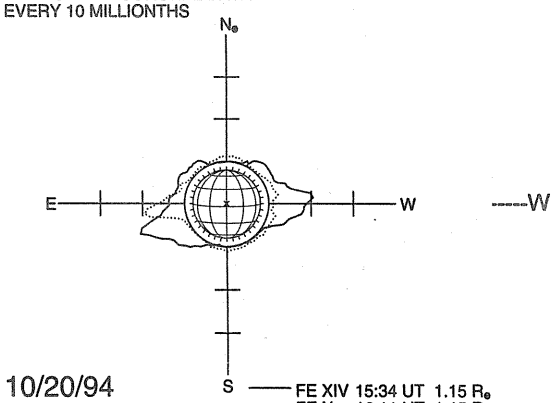


1436 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



10/20/94
(DOY 293)

FE XIV 15:34 UT 1.15 $R_\odot$
FE X 16:11 UT 1.15 $R_\odot$
CA XV 14:37 UT 1.15 $R_\odot$
NO CA XV ACTIVITY TODAY

S

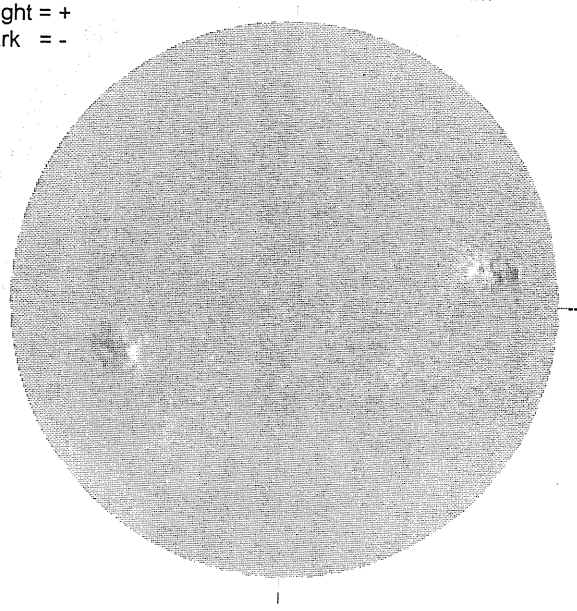
OCTOBER 21, 1994 (P= 25.89, Bo = 5.41, Lo = 217.99)

KITT PEAK MAGNETOGRAM

N

550.7 nm

Bright = +
Dark = -



1710 UT

STANFORD MAGNETOGRAM

N

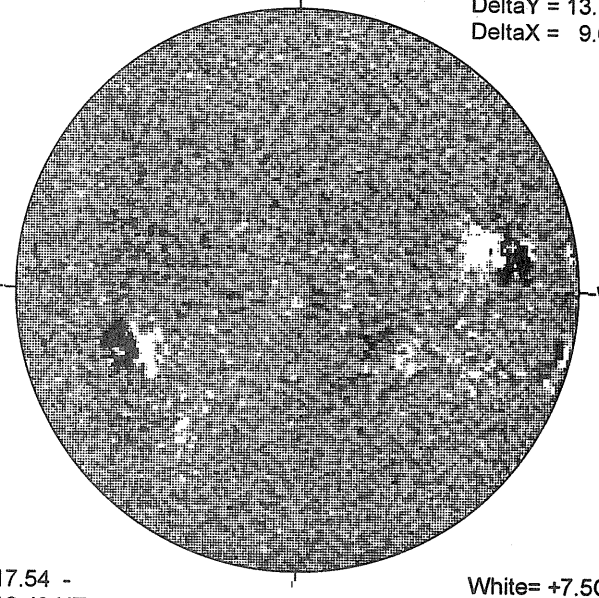
Solid = +
Dashed = -

1702 UT

MT. WILSON MAGNETOGRAM

N

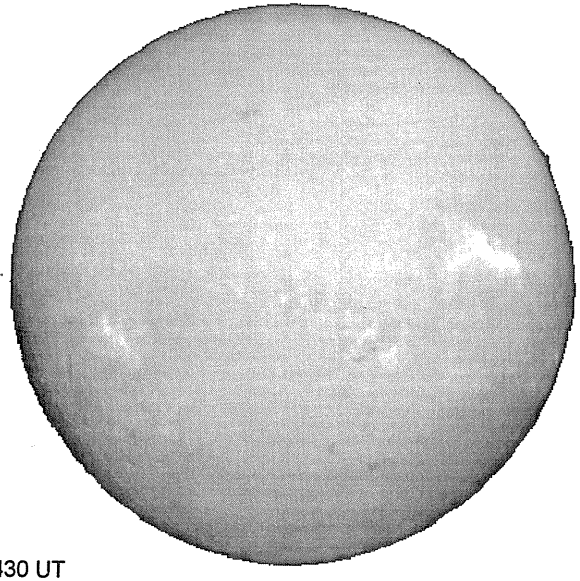
DeltaY = 13.1
DeltaX = 9.6



17.54 -
18.49 UT

White= +7.5G
Black = -7.5G

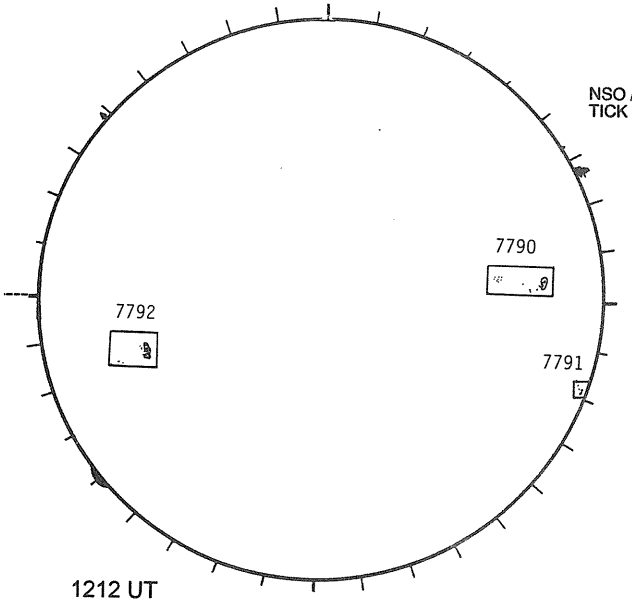
SACRAMENTO PEAK H-ALPHA



1430 UT

S

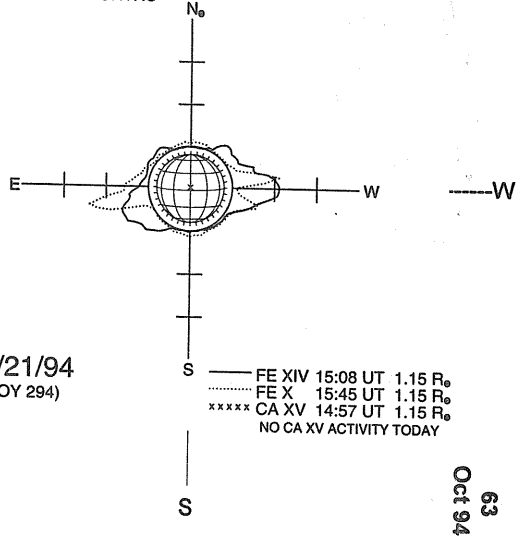
RAMEY SUNSPOT



1212 UT
0832 UT VALA Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)----

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 10 MILLIONTHS



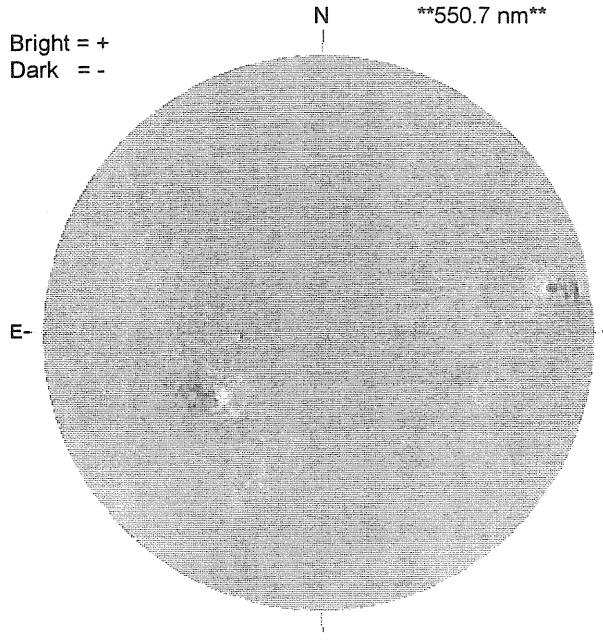
10/21/94
(DOY 294)

FE XIV 15:08 UT 1.15 $R_\odot$
FE X 15:45 UT 1.15 $R_\odot$
CA XV 14:57 UT 1.15 $R_\odot$
NO CA XV ACTIVITY TODAY

63
Oct 94

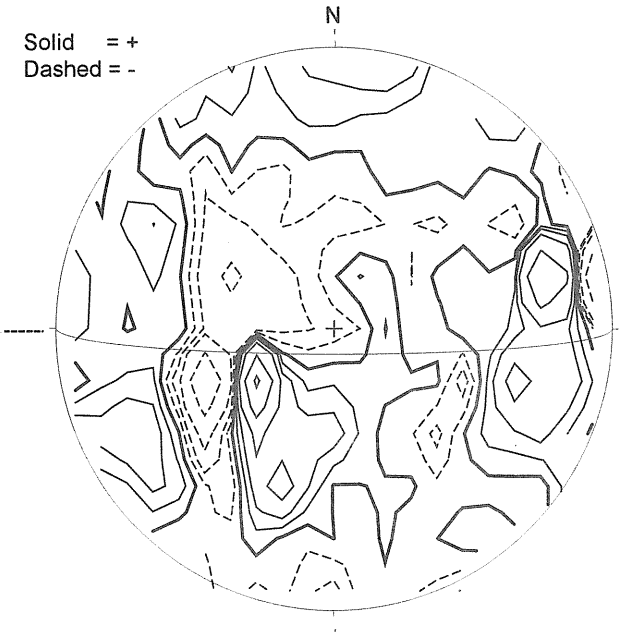
OCTOBER 22, 1994 (P= 25.81, Bo = 5.33, Lo = 204.80)

KITT PEAK MAGNETOGRAM



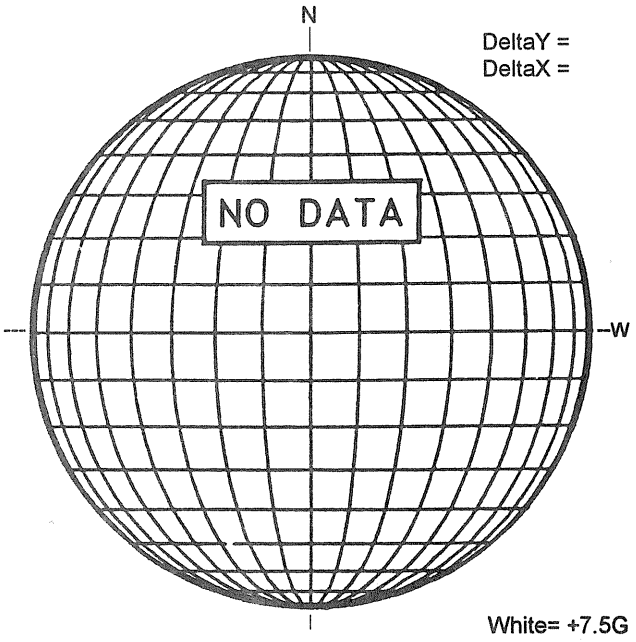
1458 UT

STANFORD MAGNETOGRAM



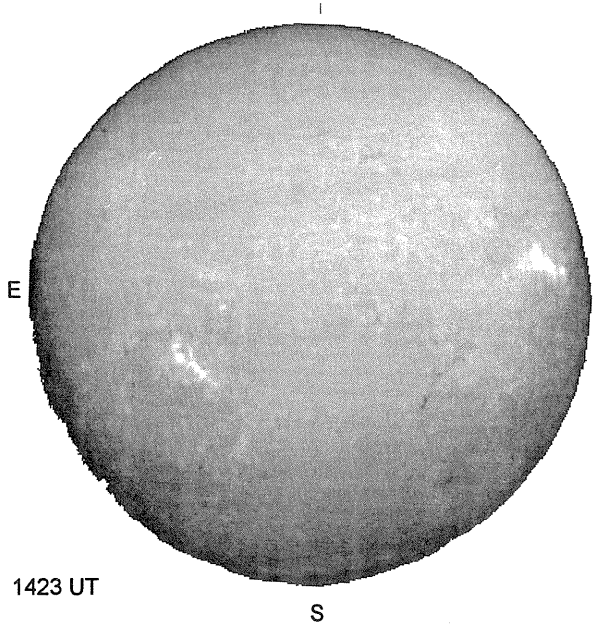
1903 UT

MT. WILSON MAGNETOGRAM



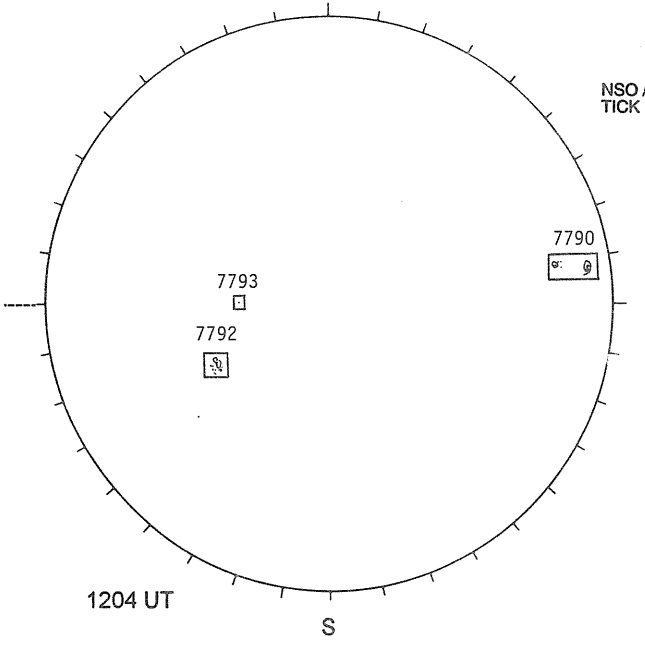
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



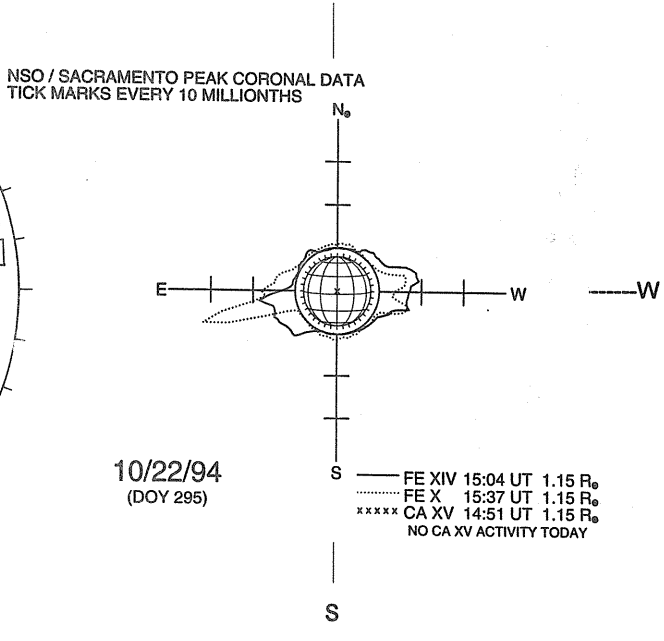
1423 UT

RAMEY SUNSPOT



1204 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

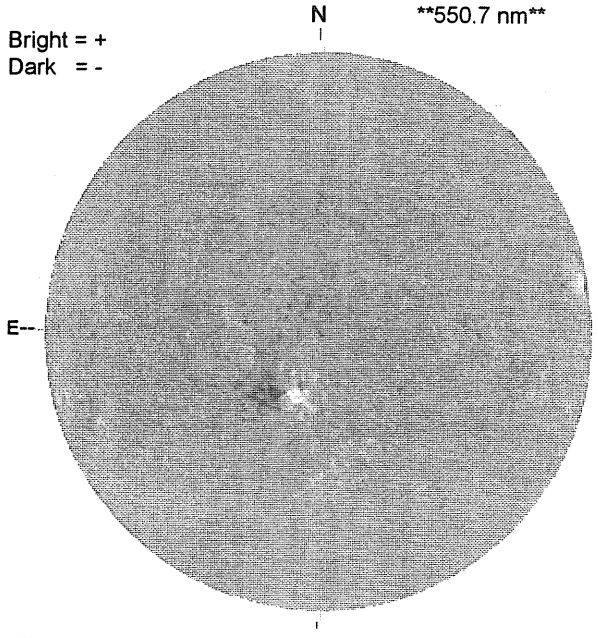


10/22/94
(DOY 295)

FE XIV 15:04 UT 1.15 R
FE X 15:37 UT 1.15 R
CA XV 14:51 UT 1.15 R
NO CA XV ACTIVITY TODAY

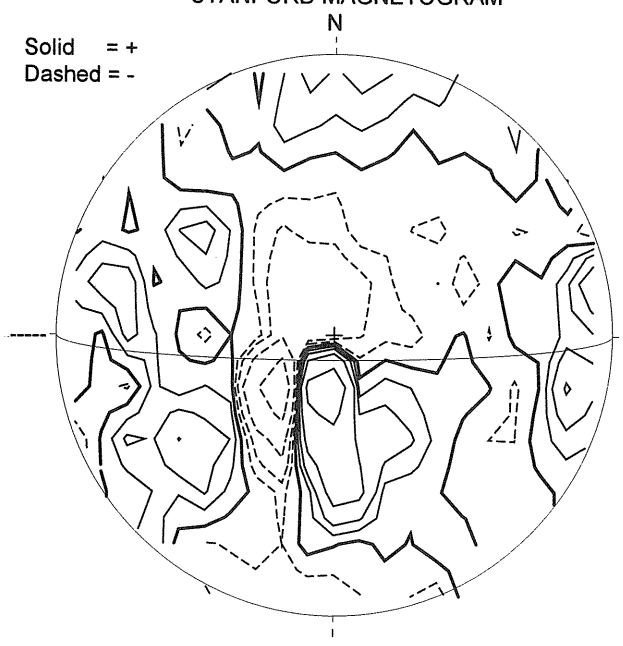
OCTOBER 23, 1994 (P= 25.72, Bo = 5.24, Lo = 191.61)

KITT PEAK MAGNETOGRAM



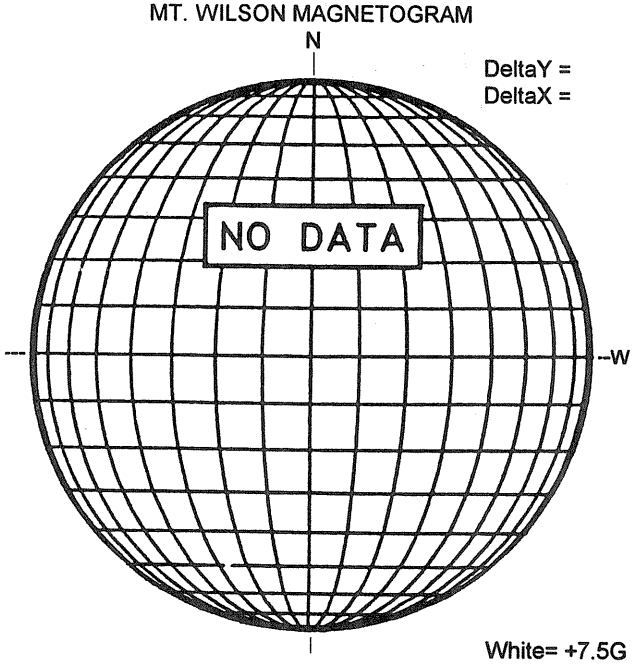
1933 UT

STANFORD MAGNETOGRAM



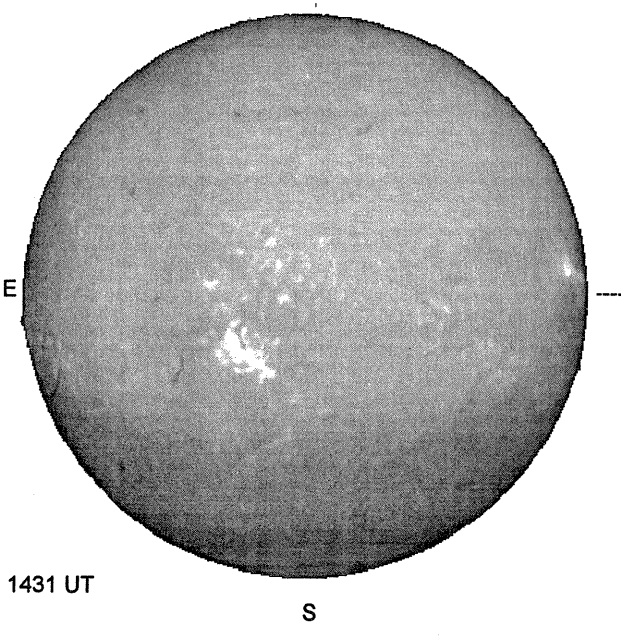
2153 UT

MT. WILSON MAGNETOGRAM



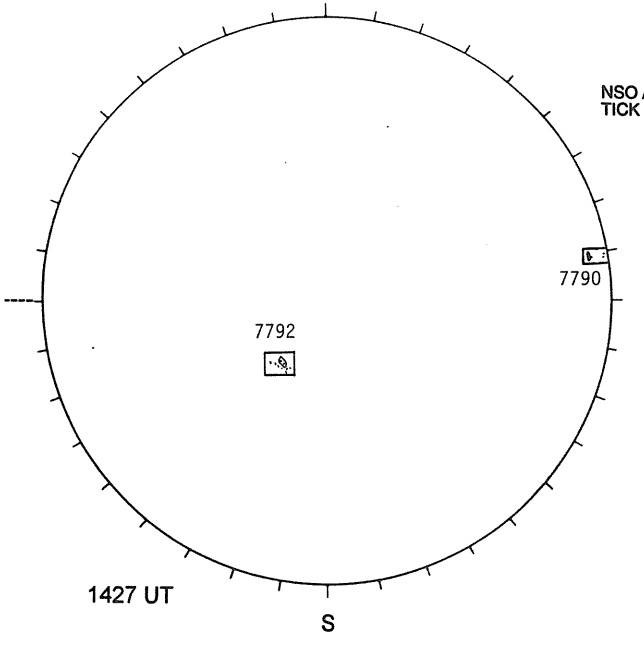
White= +7.5G
Black = -7.5G

----- SACRAMENTO PEAK H-ALPHA



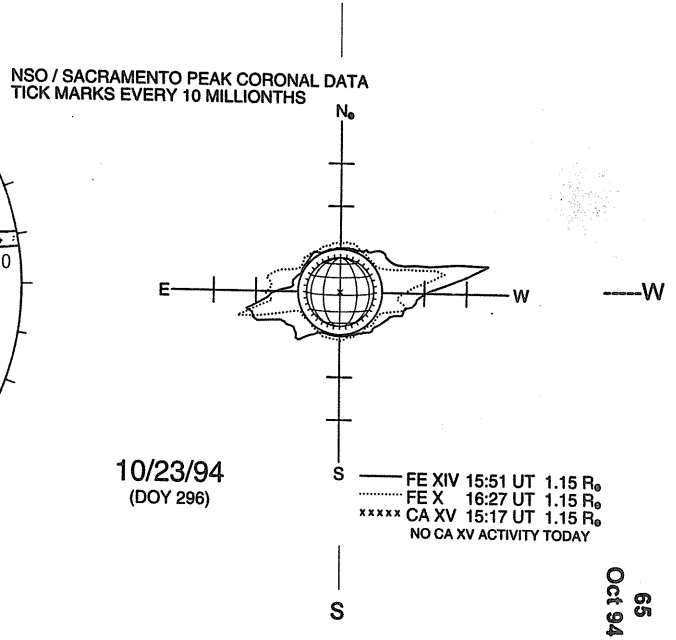
1431 UT

HOLLOMAN SUNSPOT



1427 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

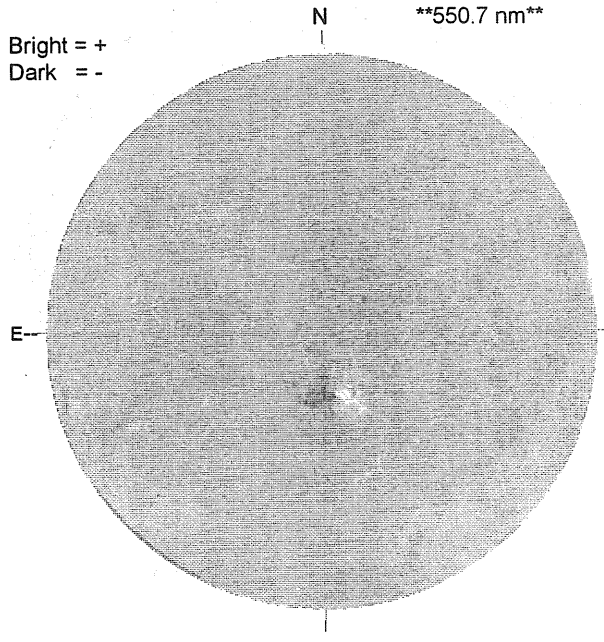


OCTOBER 24, 1994 (P= 25.62, Bo = 5.15, Lo = 178.42)

KITT PEAK MAGNETOGRAM

550.7 nm

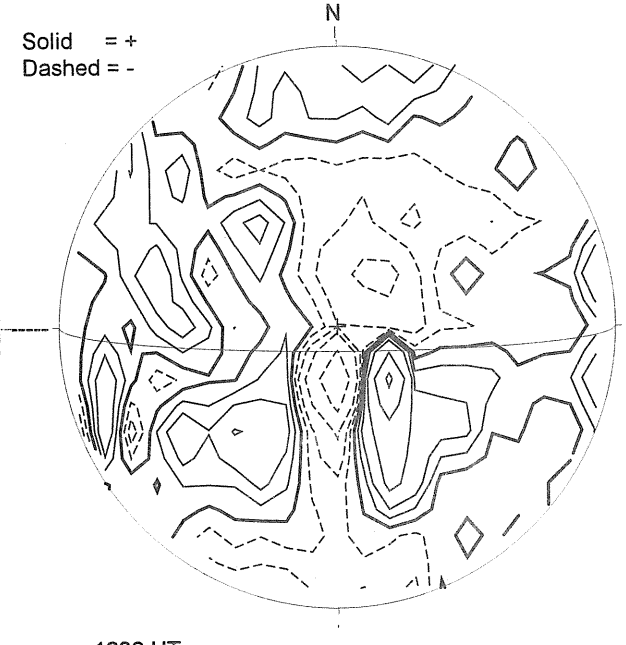
Bright = +
Dark = -



1503 UT

STANFORD MAGNETOGRAM

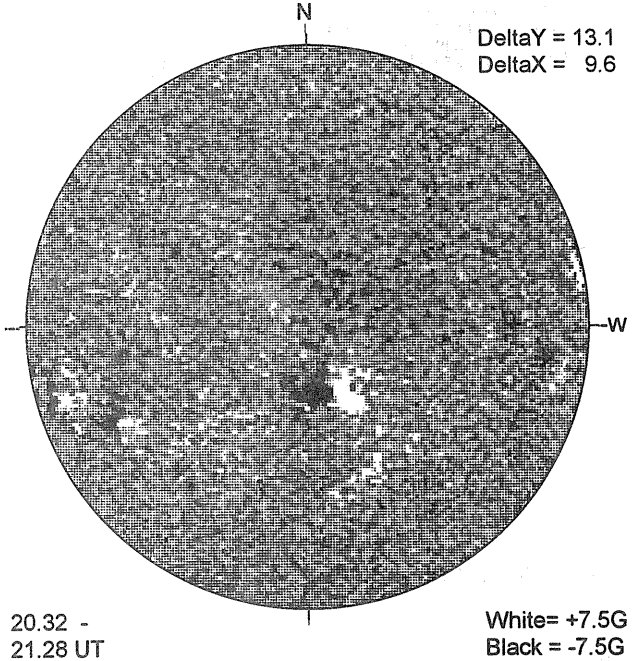
Solid = +
Dashed = -



1838 UT

MT. WILSON MAGNETOGRAM

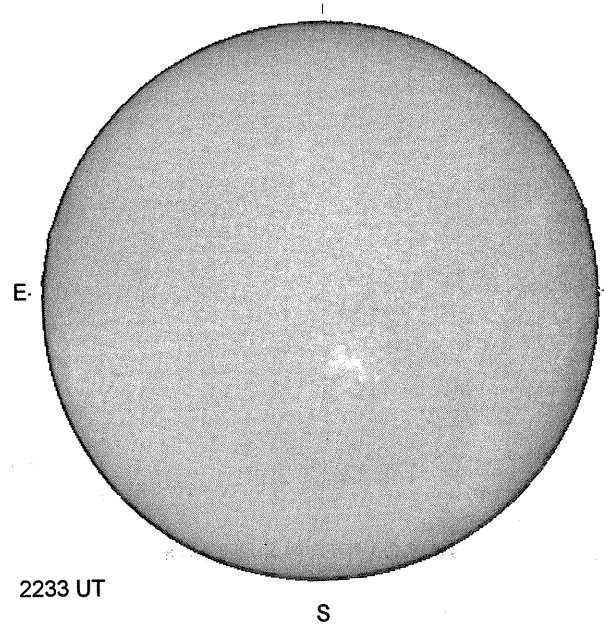
DeltaY = 13.1
DeltaX = 9.6



20.32 -
21.28 UT

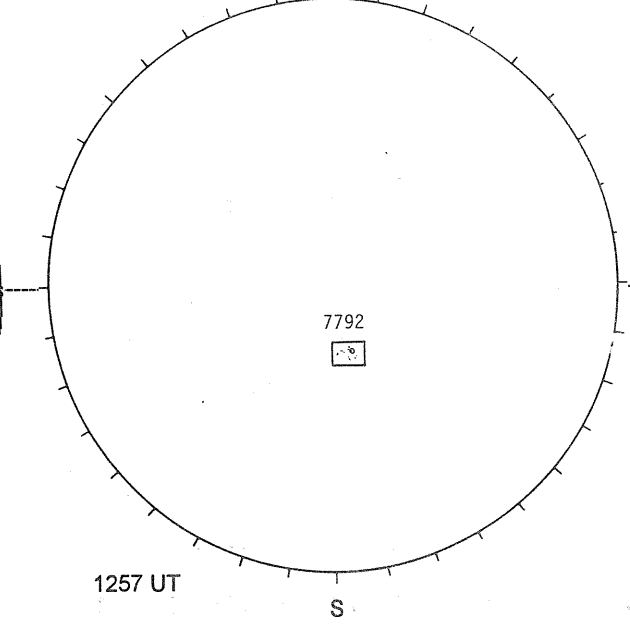
White= +7.5G
Black = -7.5G

MAUNA LOA H-ALPHA



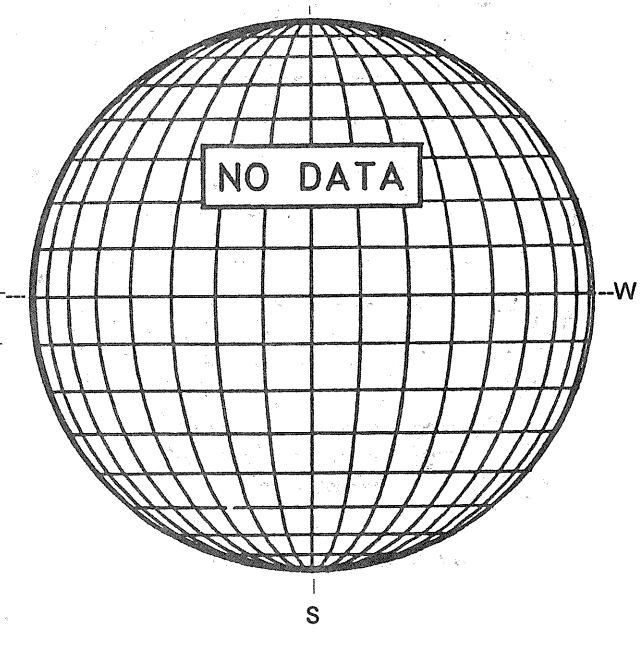
2233 UT

RAMEY SUNSPOT



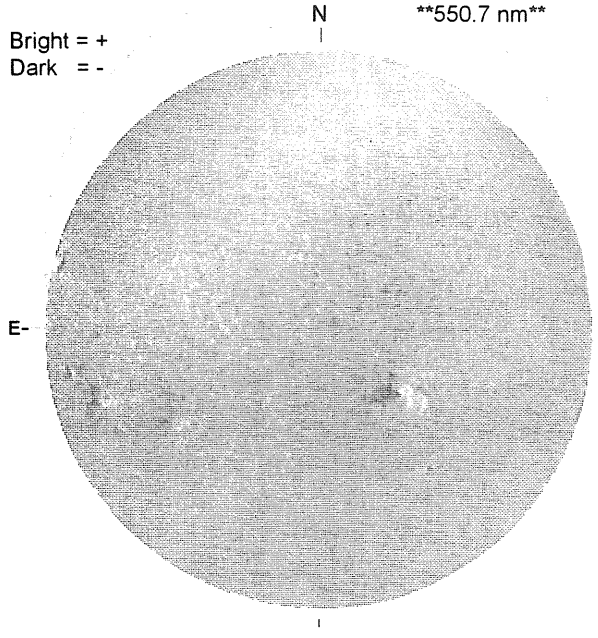
1257 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



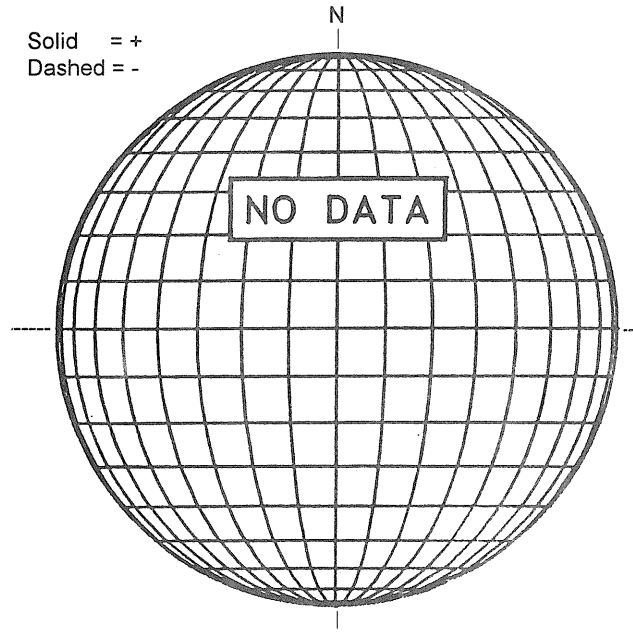
OCTOBER 25, 1994 (P= 25.52, Bo = 5.06, Lo = 165.23)

KITT PEAK MAGNETOGRAM

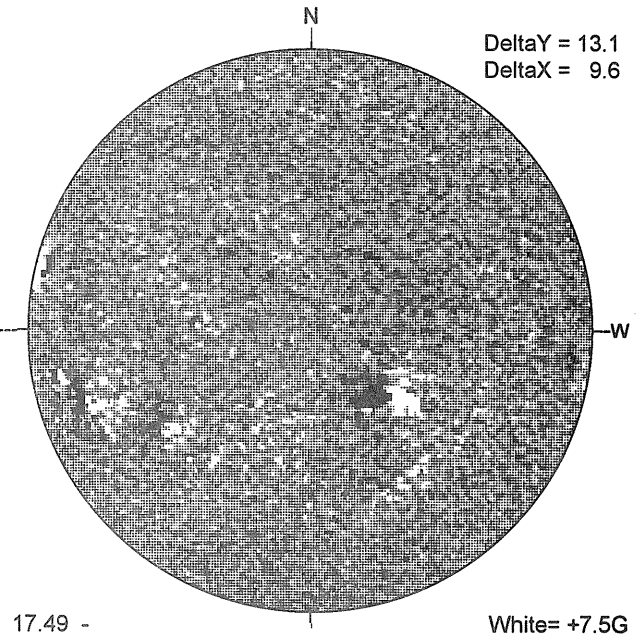


1604 UT

STANFORD MAGNETOGRAM



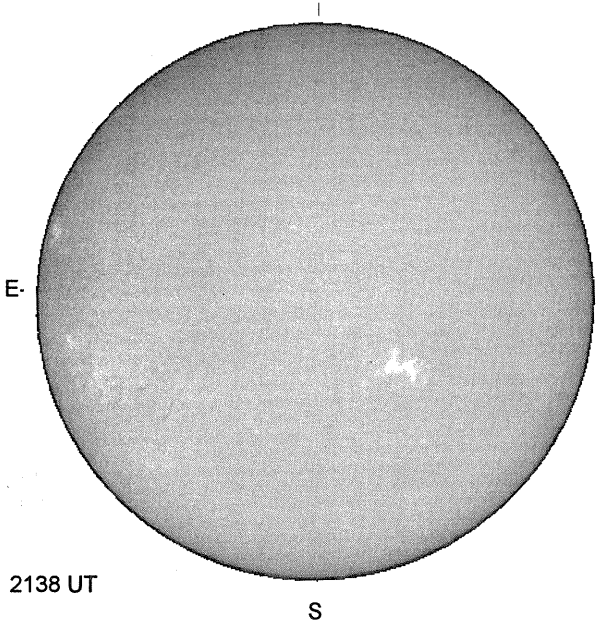
MT. WILSON MAGNETOGRAM



17.49 -
18.44 UT

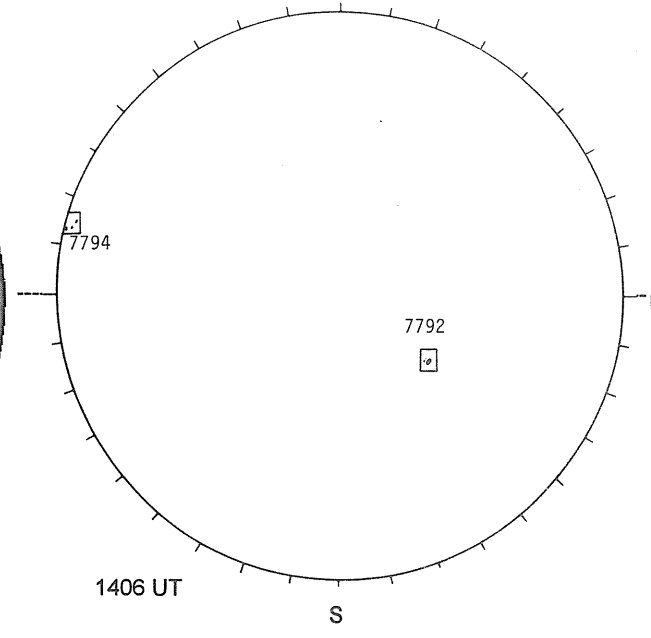
White= +7.5G
Black = -7.5G

MAUNA LOA H-ALPHA



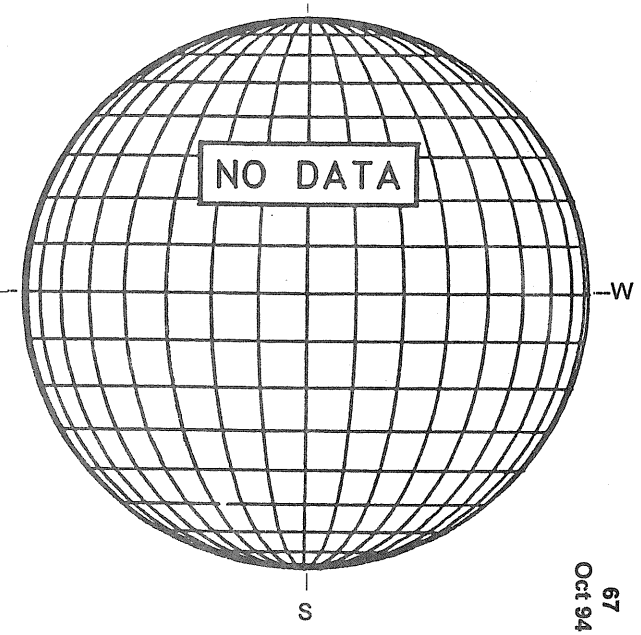
2138 UT

RAMEY SUNSPOT



1406 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----



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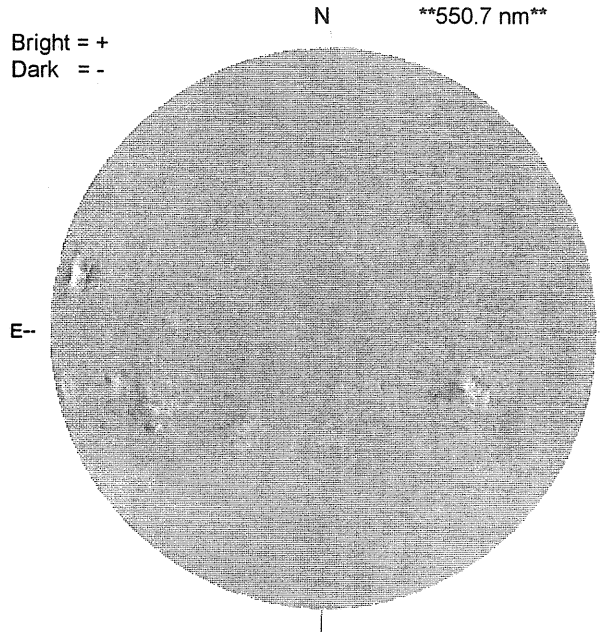
Oct 94

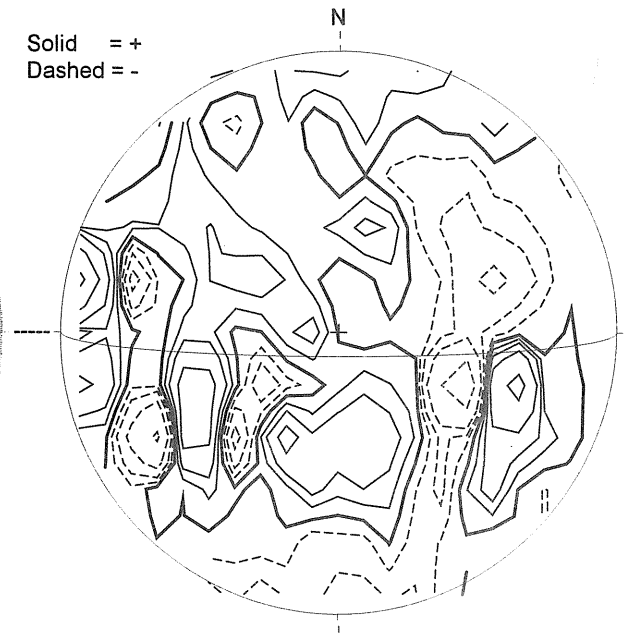
OCTOBER 26, 1994 (P= 25.40, Bo = 4.97, Lo = 152.04)

KITT PEAK MAGNETOGRAM



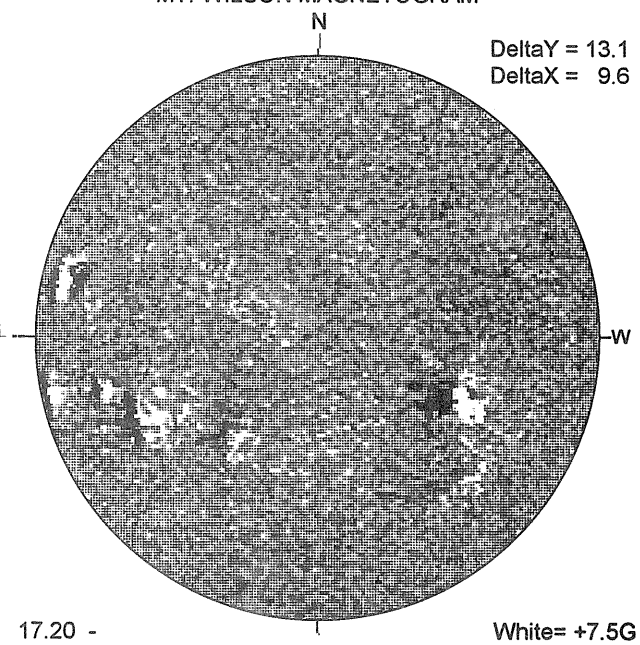
1442 UT

STANFORD MAGNETOGRAM



1913 UT

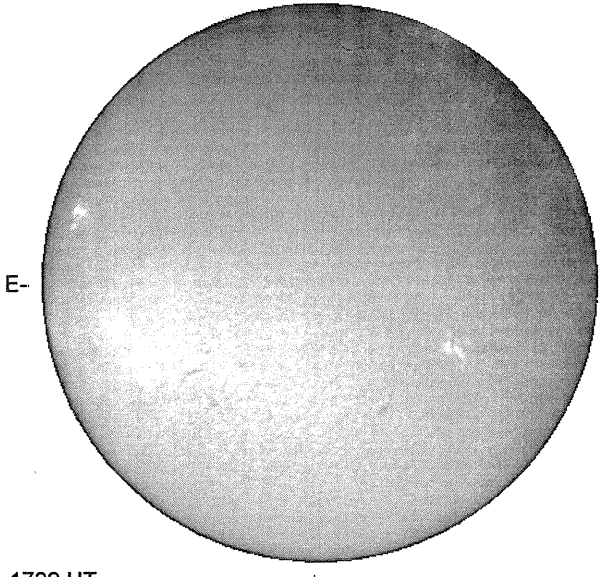
MT. WILSON MAGNETOGRAM



17.20 -
18.15 UT

White= +7.5G
Black = -7.5G

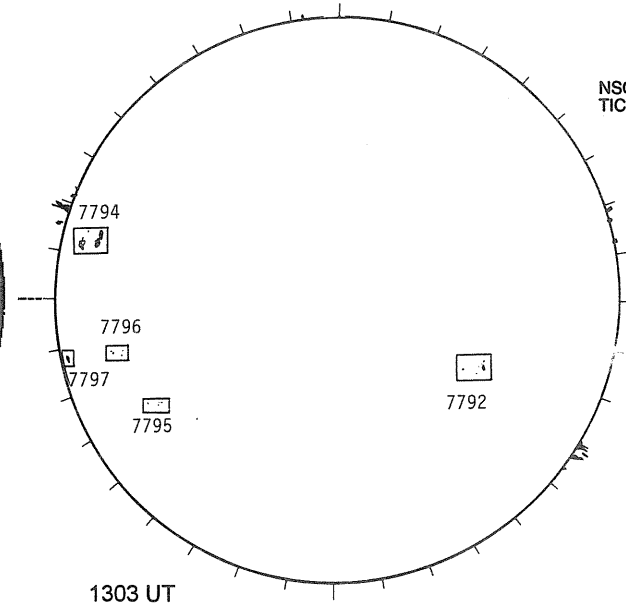
MAUNA LOA H-ALPHA



1732 UT

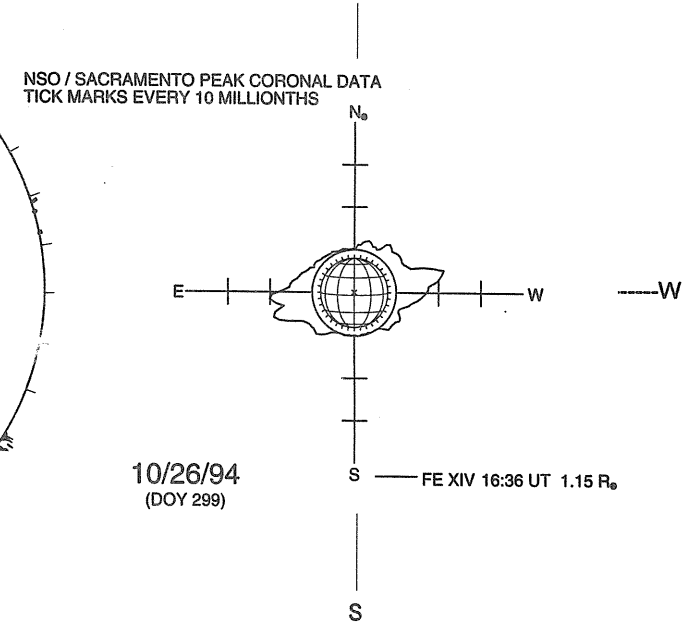
S

RAMEY SUNSPOT



1303 UT
0827 UT LOMN Prom S

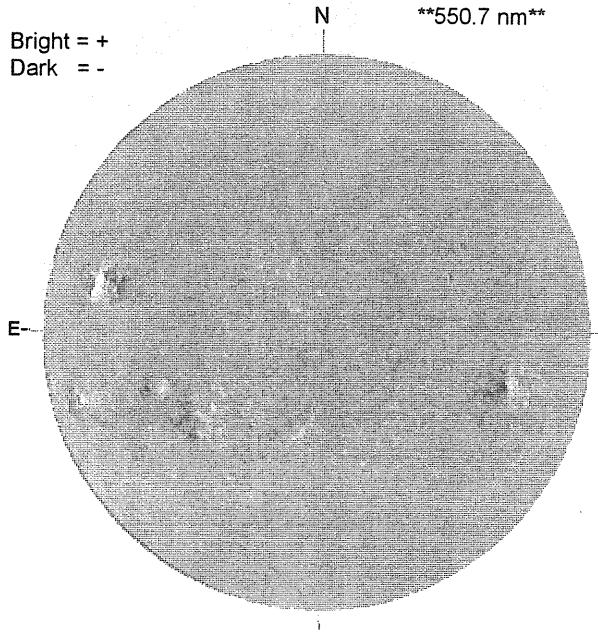
SACRAMENTO PEAK CORONA (1.15 Radii)



S

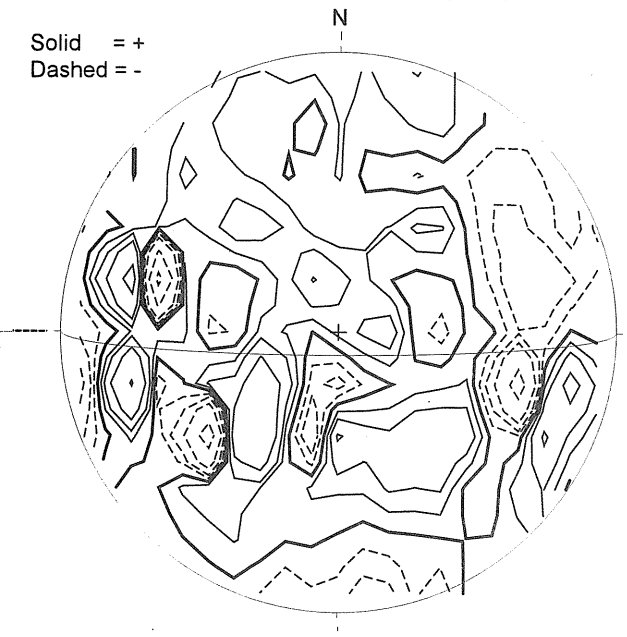
OCTOBER 27, 1994 (P= 25.28, Bo = 4.88, Lo = 138.85)

KITT PEAK MAGNETOGRAM



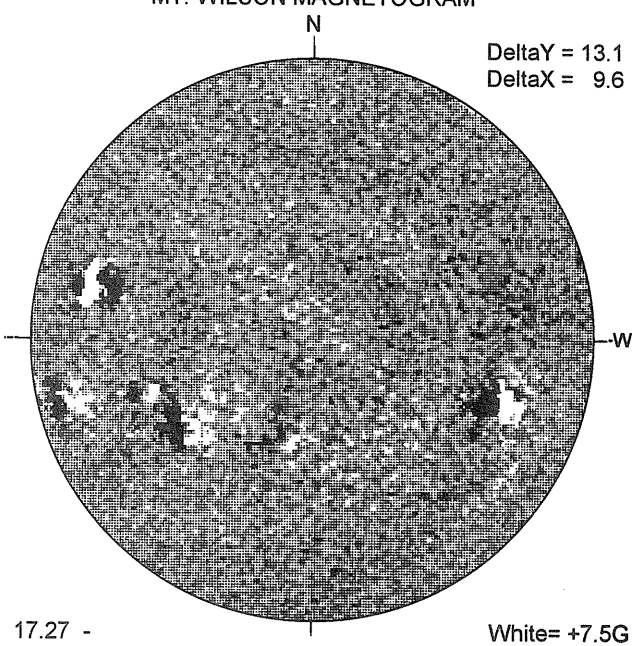
1433 UT

STANFORD MAGNETOGRAM



2214 UT

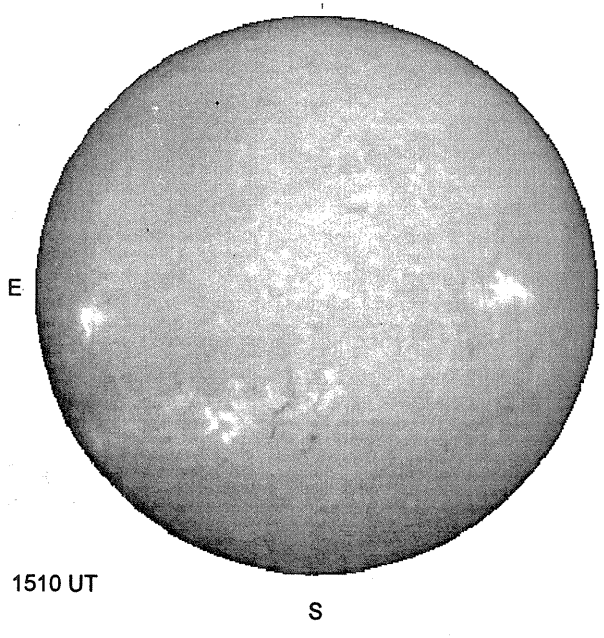
MT. WILSON MAGNETOGRAM



17.27 -
18.22 UT

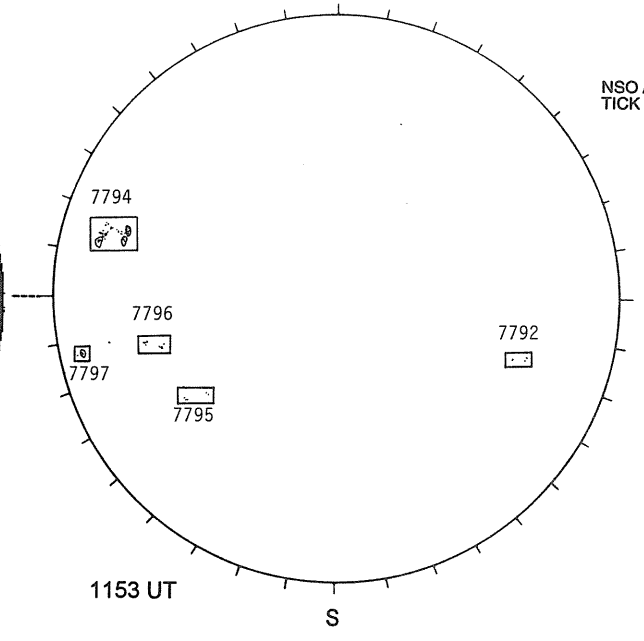
White= +7.5G
Black = -7.5G

----- SACRAMENTO PEAK H-ALPHA



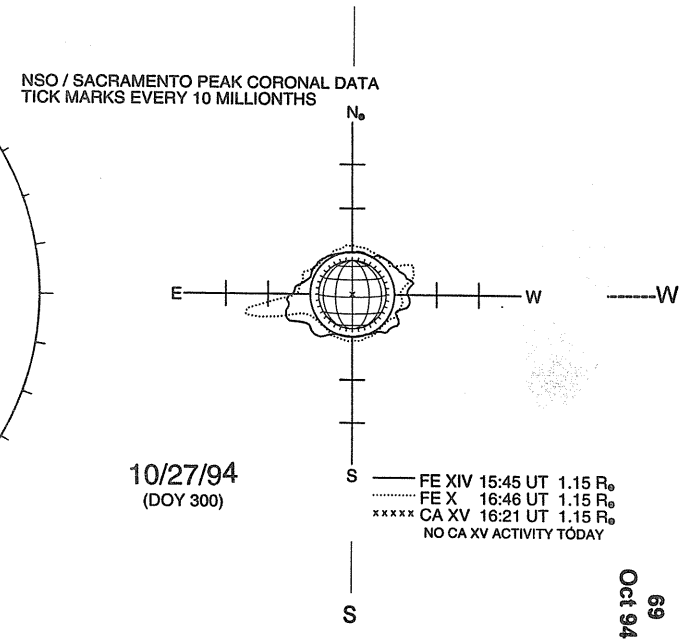
1510 UT

RAMEY SUNSPOT



1153 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----



S

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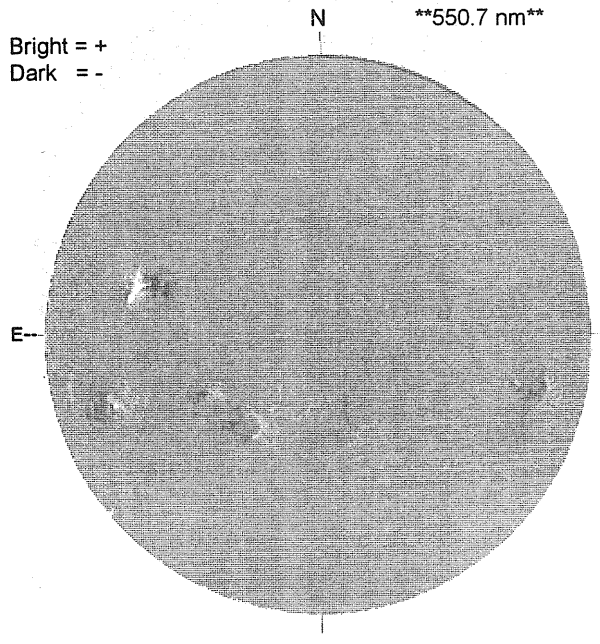
Oct 94

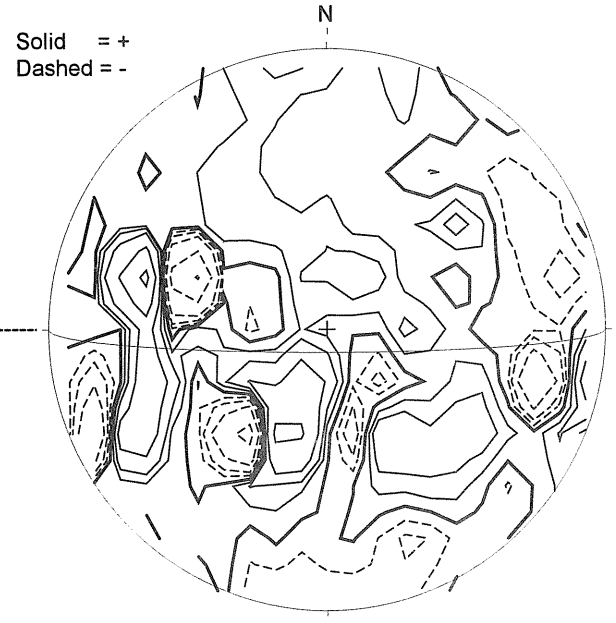
OCTOBER 28, 1994 (P= 25.15, Bo = 4.78, Lo = 125.67)

KITT PEAK MAGNETOGRAM



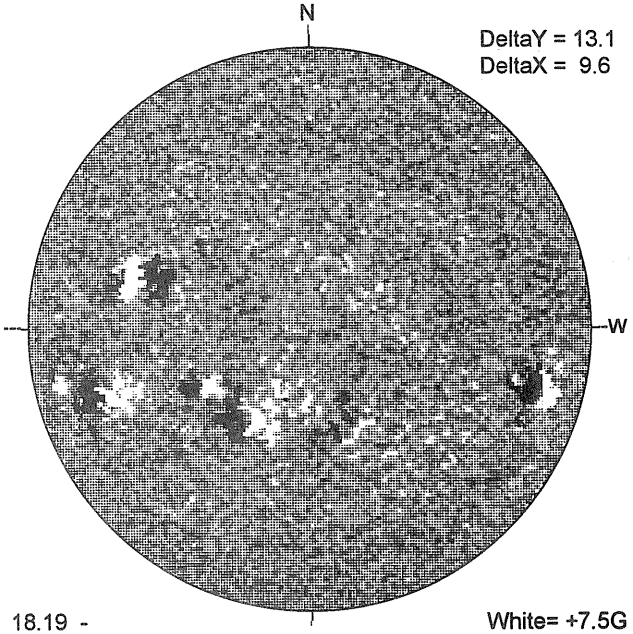
1427 UT

STANFORD MAGNETOGRAM



1905 UT

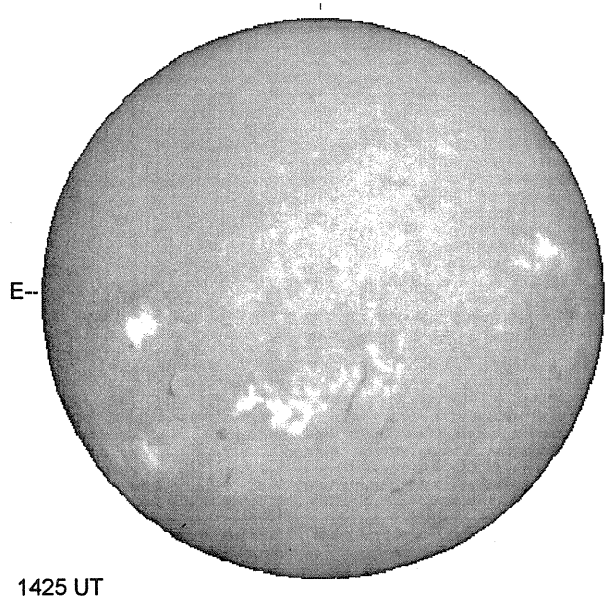
MT. WILSON MAGNETOGRAM



18.19 -
19.14 UT

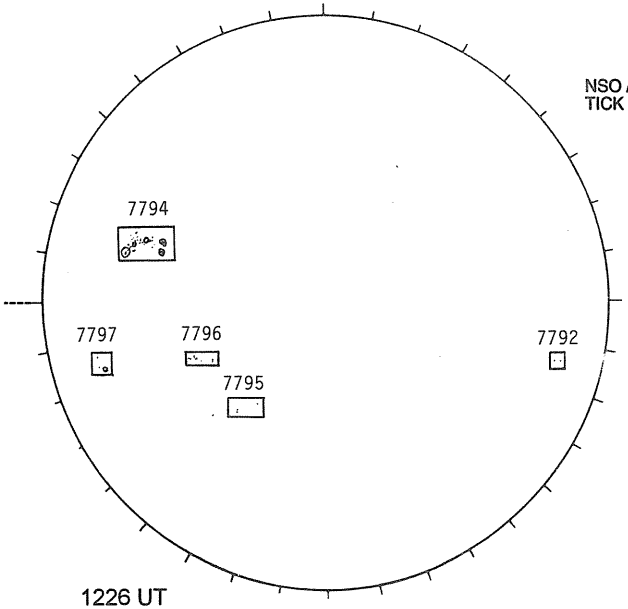
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



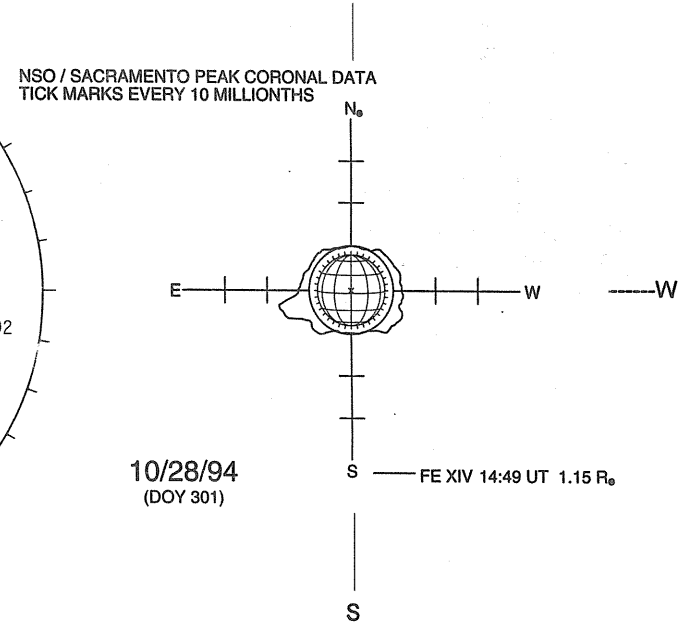
1425 UT

RAMEY SUNSPOT



1226 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

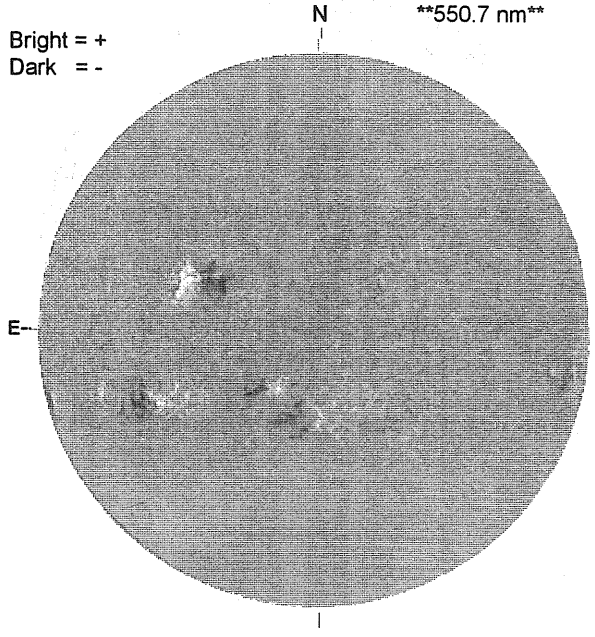


10/28/94
(DOY 301)

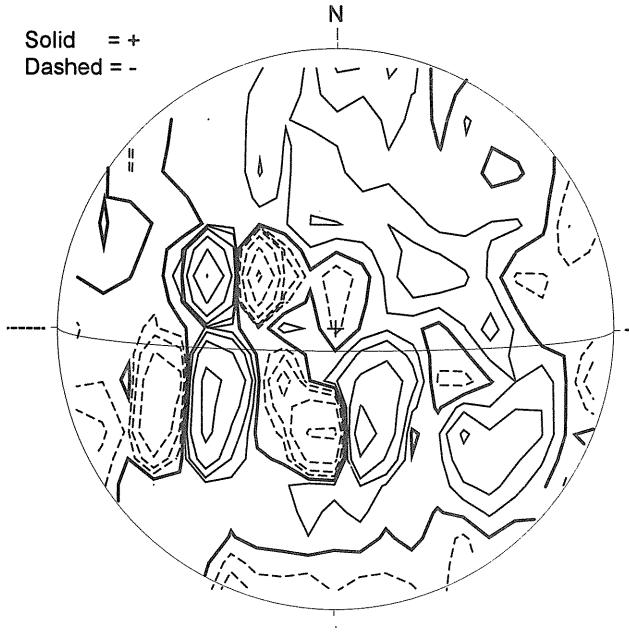
FE XIV 14:49 UT 1.15 $R_\odot$

OCTOBER 29, 1994 (P= 25.01, Bo = 4.69, Lo = 112.48)

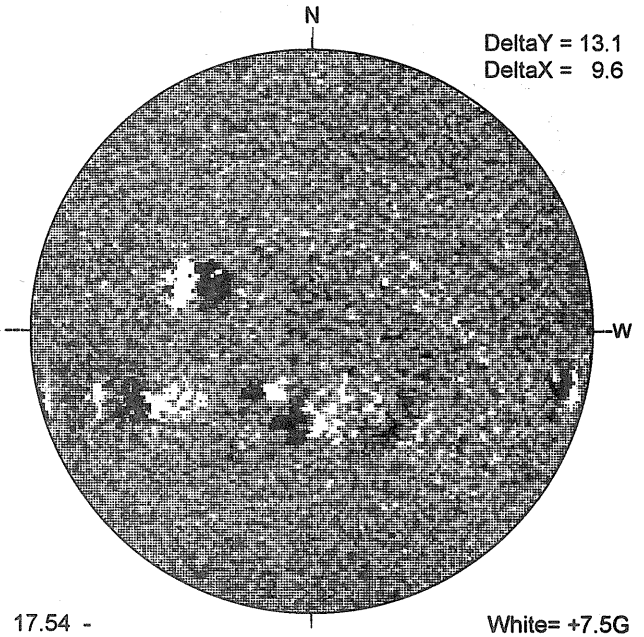
KITT PEAK MAGNETOGRAM



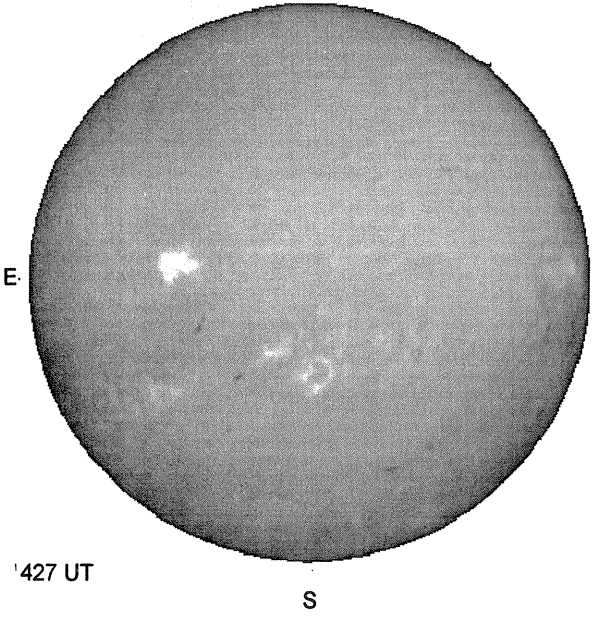
STANFORD MAGNETOGRAM



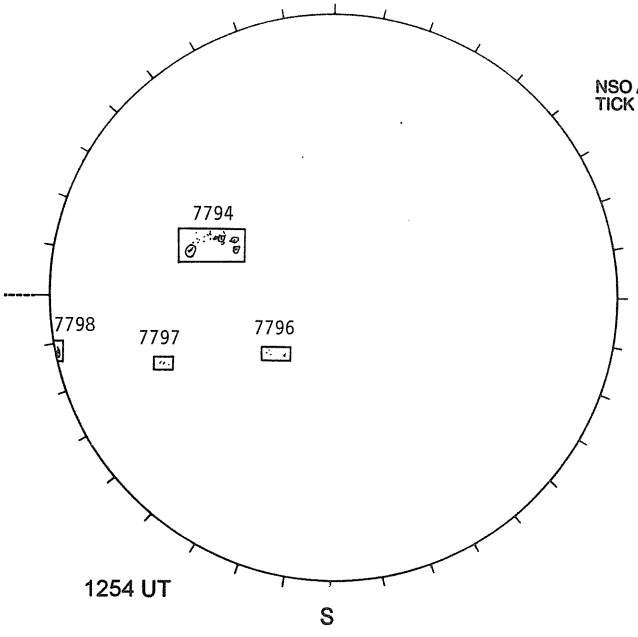
MT. WILSON MAGNETOGRAM



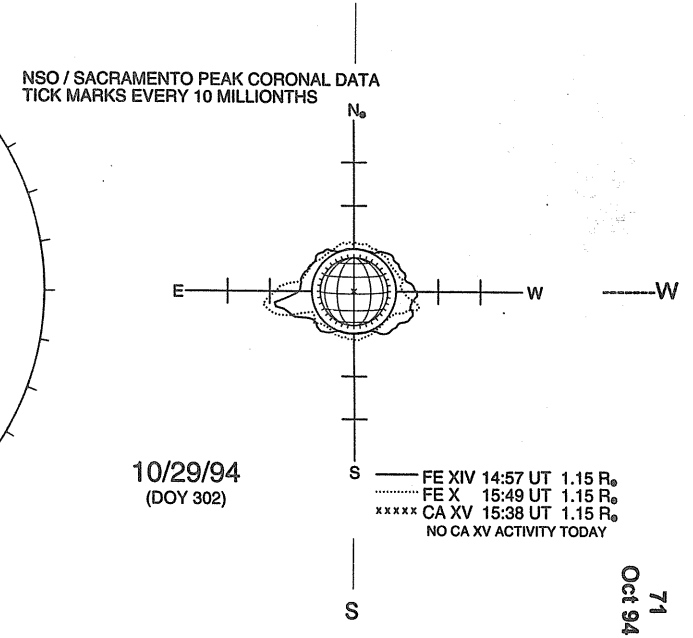
SACRAMENTO PEAK H-ALPHA



RAMEY SUNSPOT



SACRAMENTO PEAK CORONA (1.15 Radii)



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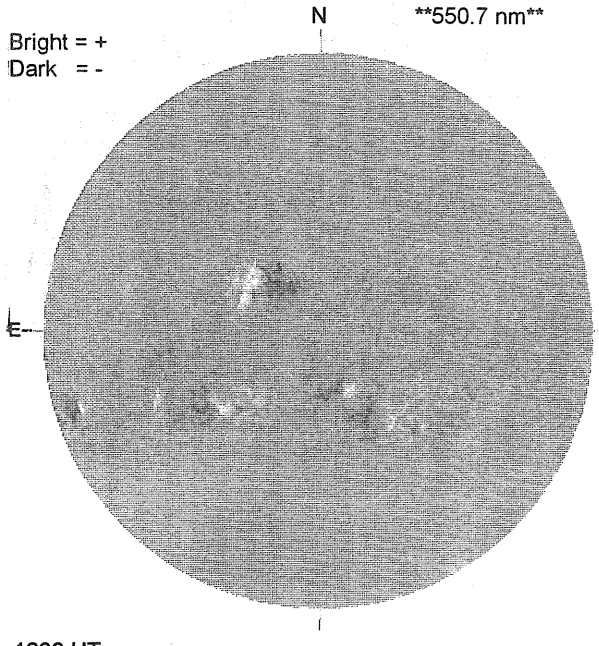
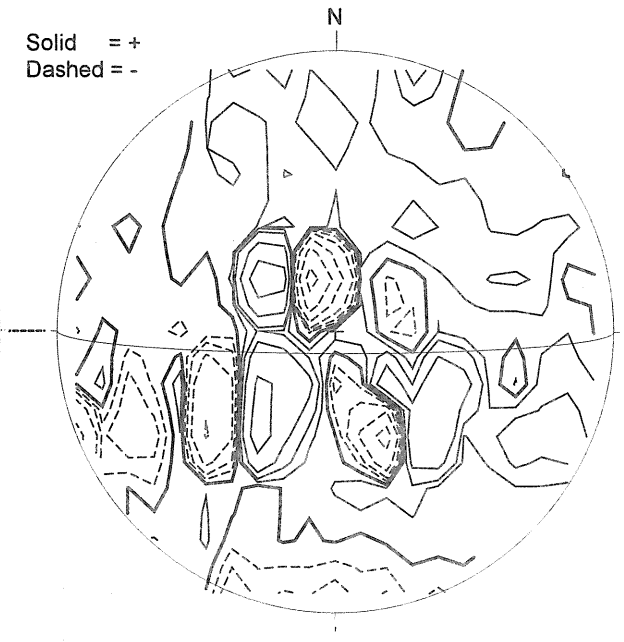
OCTOBER 30, 1994 (P= 24.87, Bo = 4.59, Lo = 99.29)

KITT PEAK MAGNETOGRAM



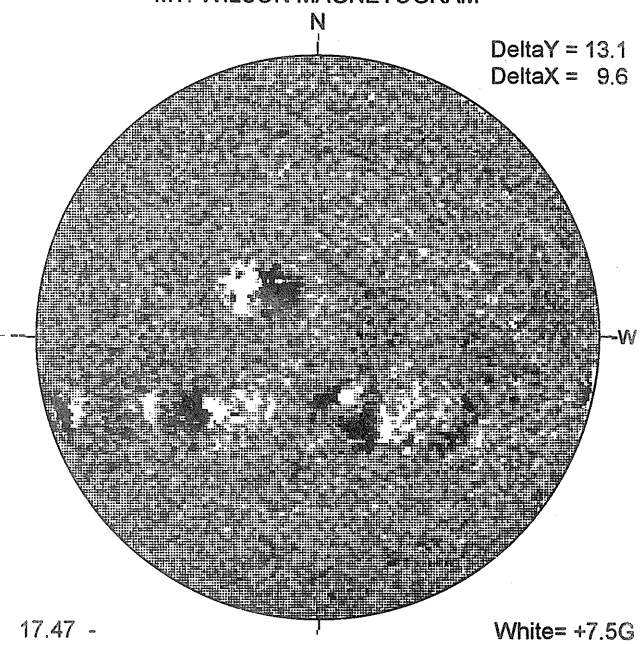
1632 UT

STANFORD MAGNETOGRAM



2149 UT

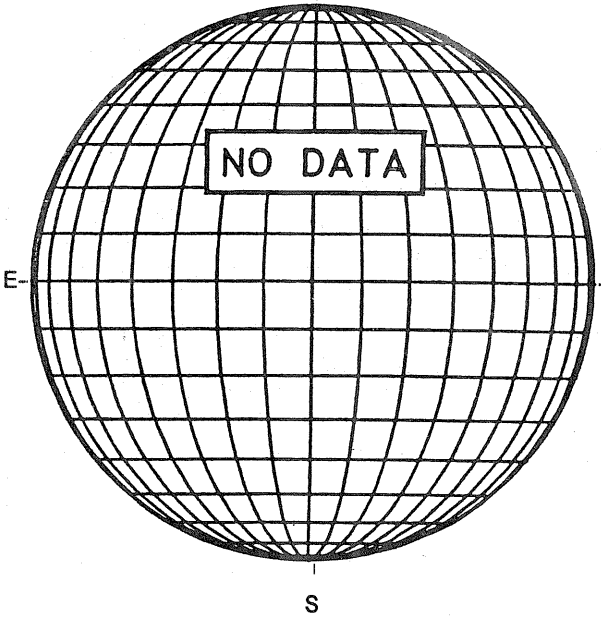
MT. WILSON MAGNETOGRAM



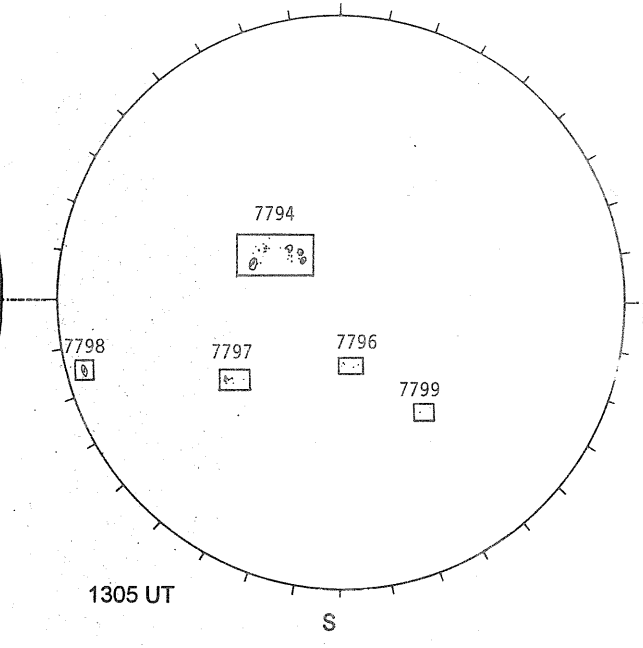
17.47 -
18.43 UT

White= +7.5G
Black = -7.5G

BIG BEAR H-ALPHA

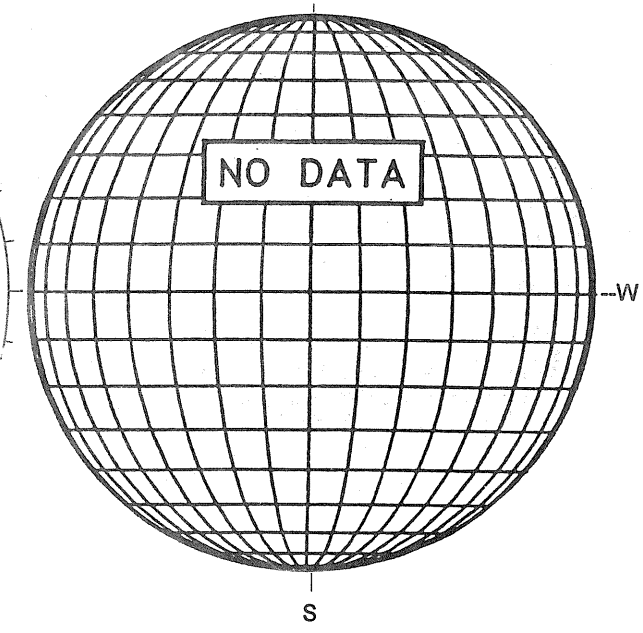


RAMEY SUNSPOT



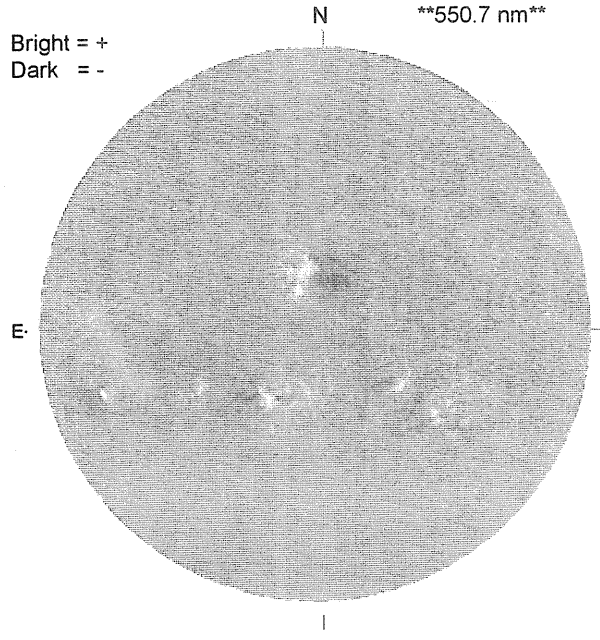
1305 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



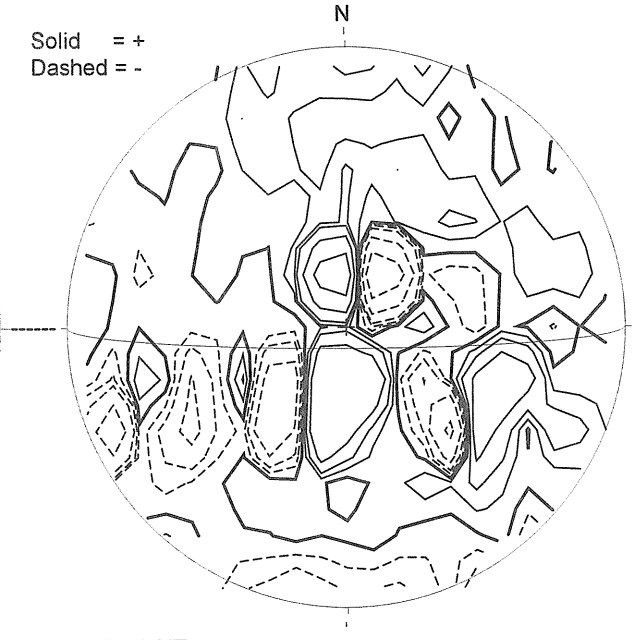
OCTOBER 31, 1994 (P= 24.72, Bo = 4.49, Lo = 86.11)

KITT PEAK MAGNETOGRAM



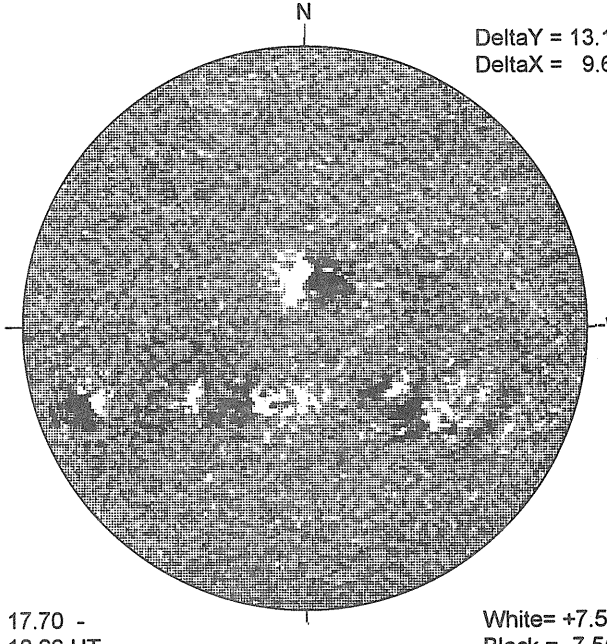
1540 UT

STANFORD MAGNETOGRAM



1923 UT

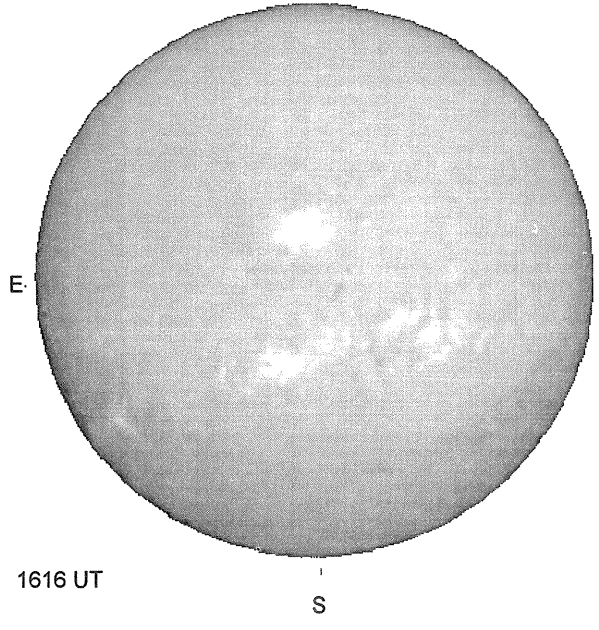
MT. WILSON MAGNETOGRAM



17.70 -
18.66 UT

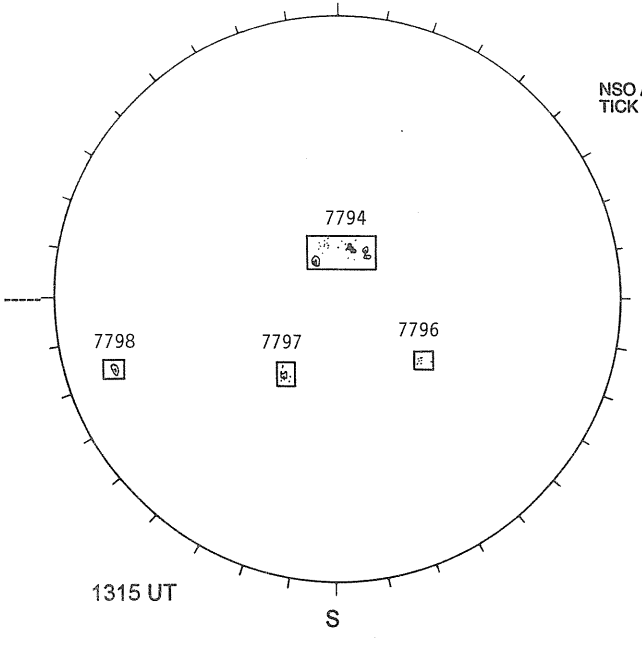
White= +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



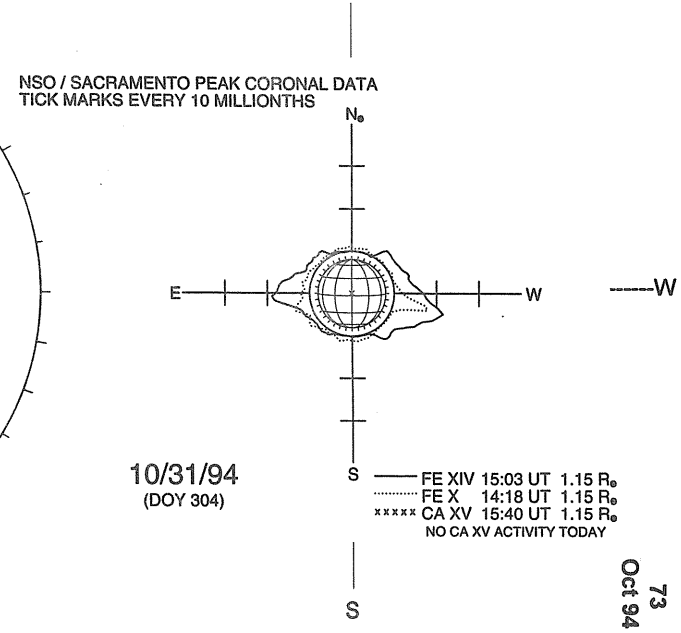
1616 UT

RAMEY SUNSPOT



1315 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



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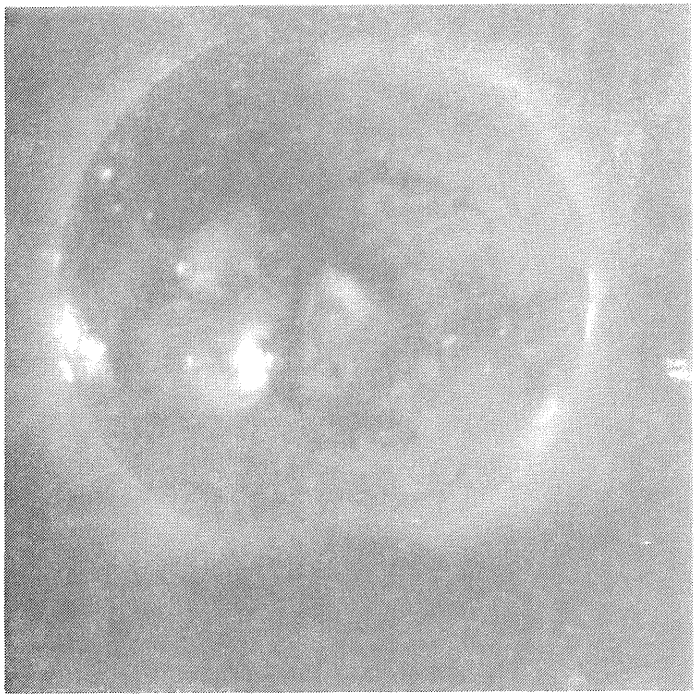
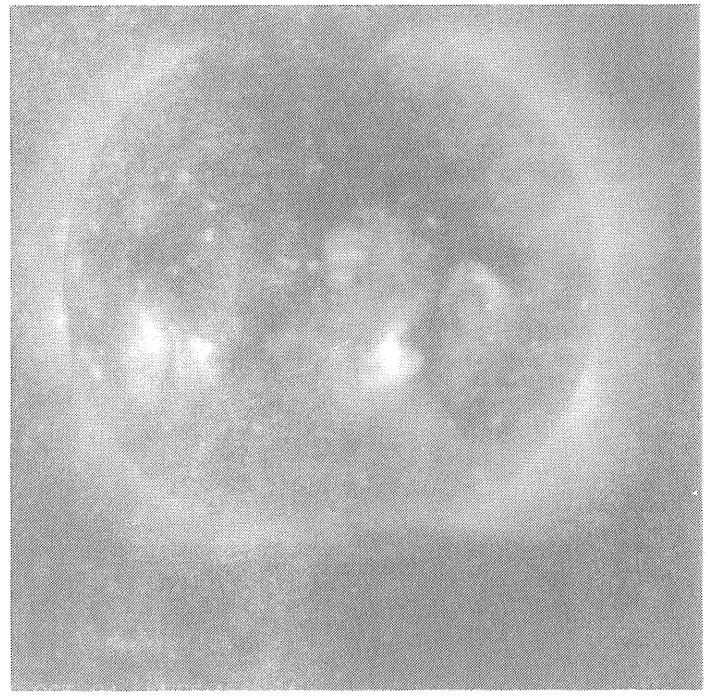
YOHKOH SOFT X-RAY TELESCOPE IMAGES

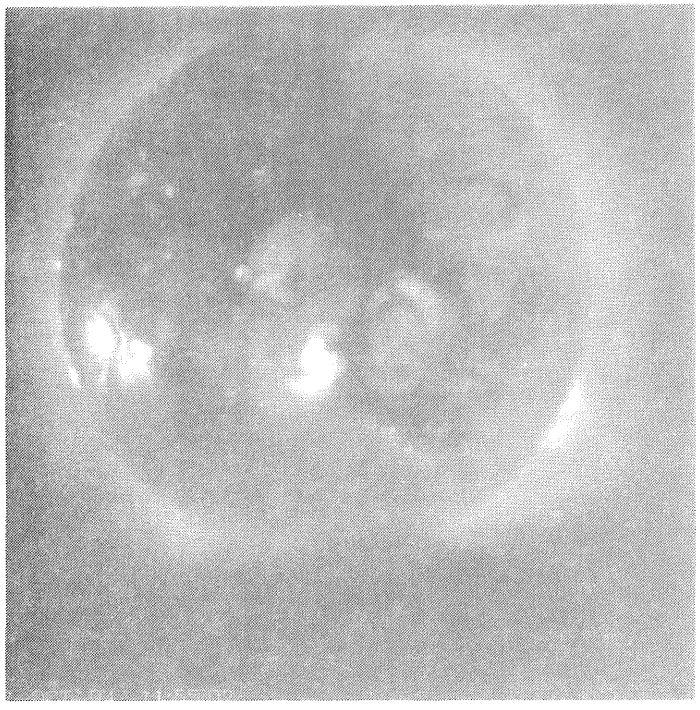
October 1994



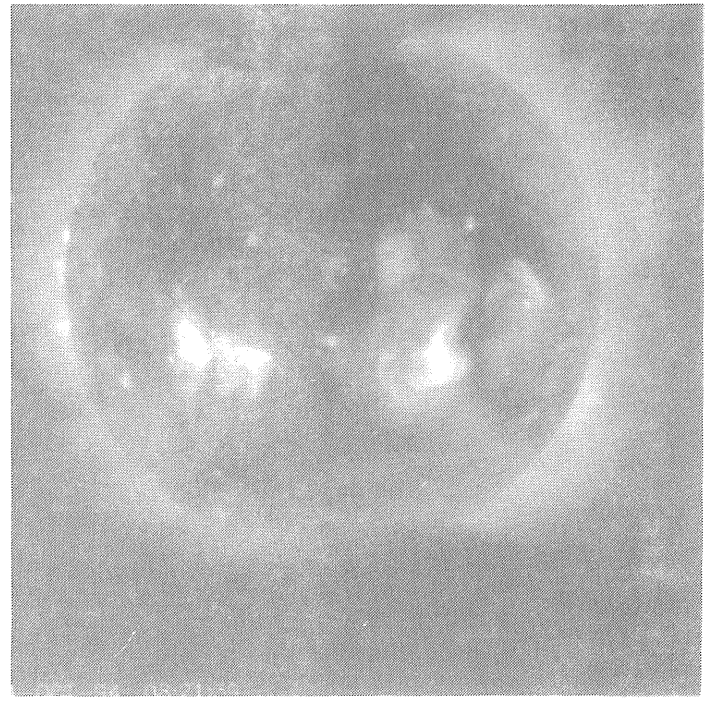
Day 1
10:45:02 UT



Day 3
14:06:45 UT



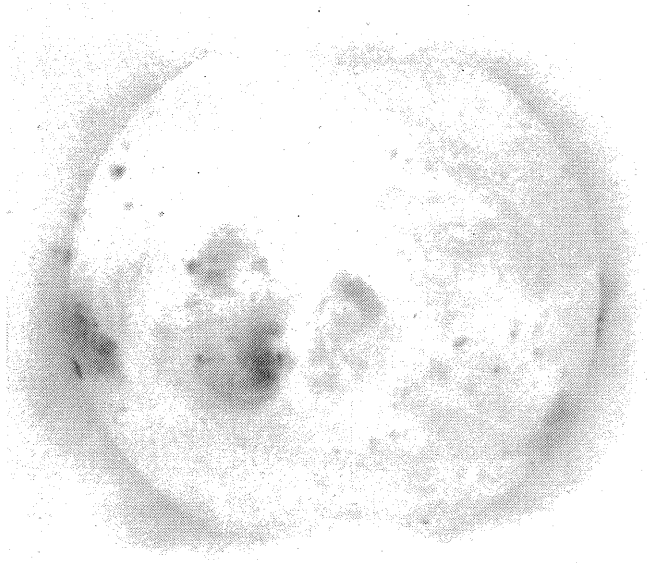
Day 2
11:55:02 UT



Day 4
08:21:39 UT

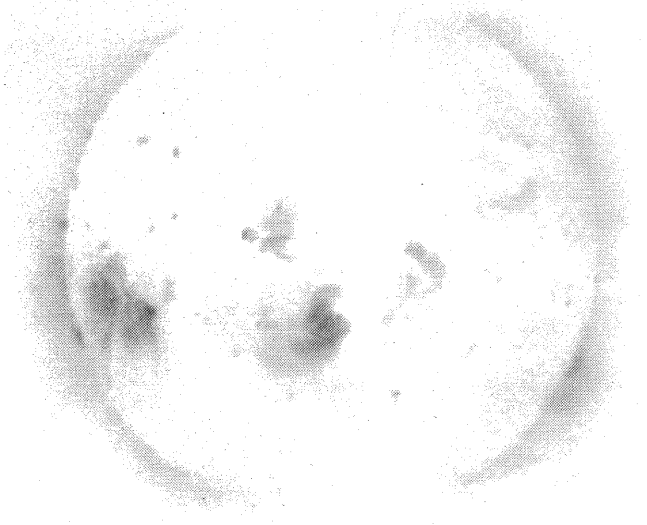
YOHKOH SOFT X-RAY TELESCOPE IMAGES

October 1994

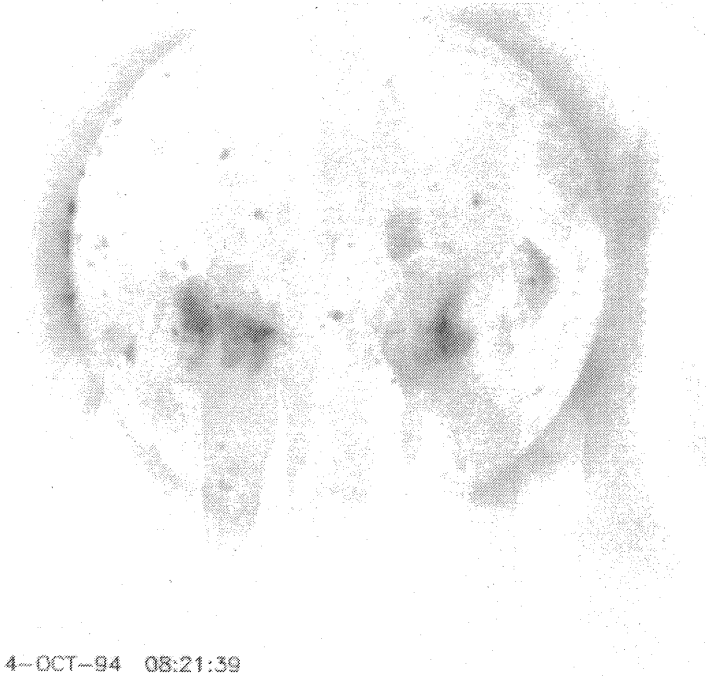


Day 1
10:45:02 UT

Day 3
14:06:45 UT



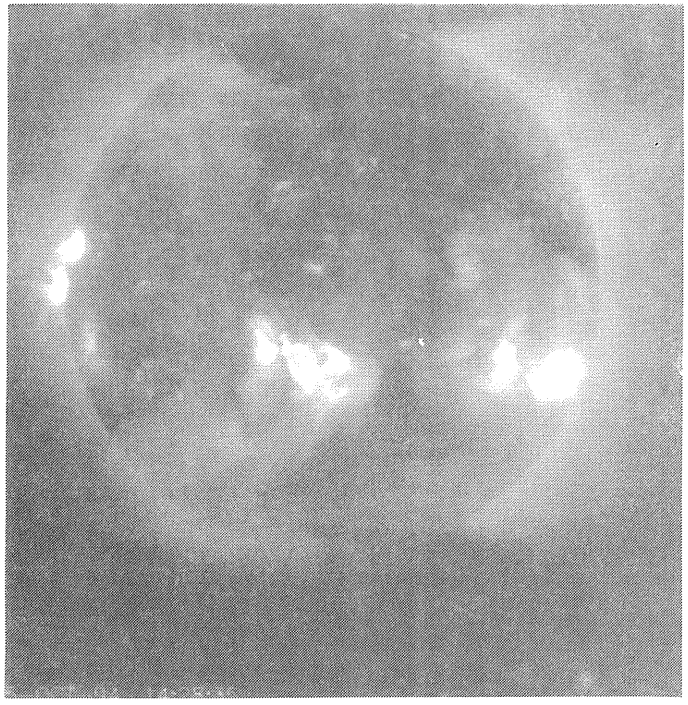
Day 2
11:55:02 UT



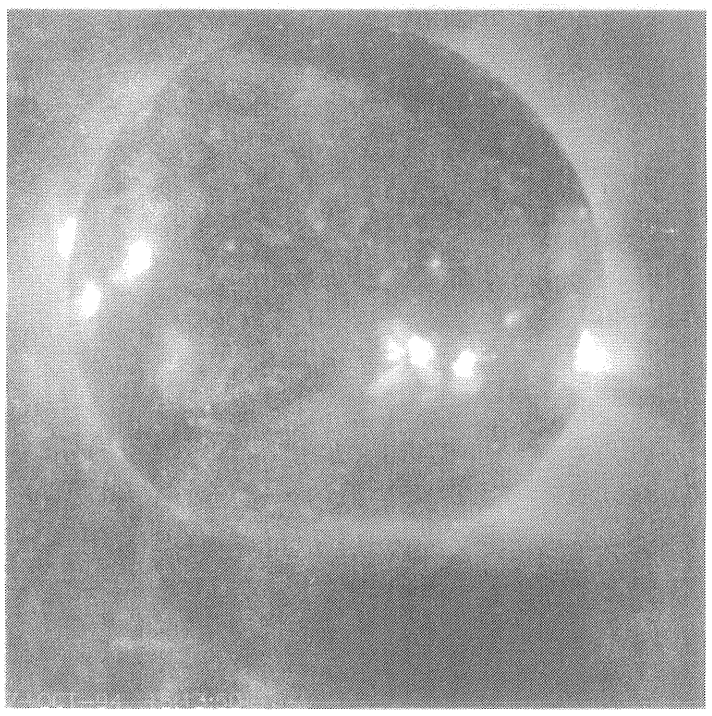
Day 4
08:21:39 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

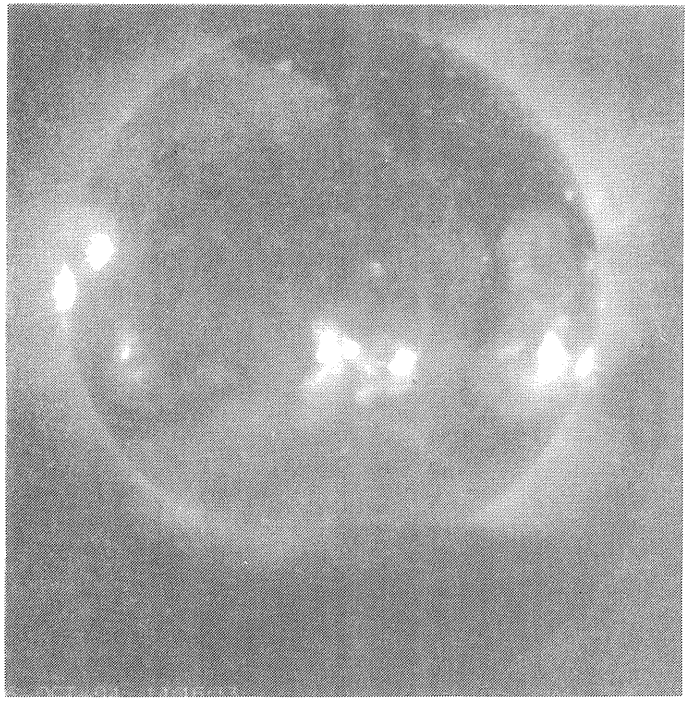
October 1994



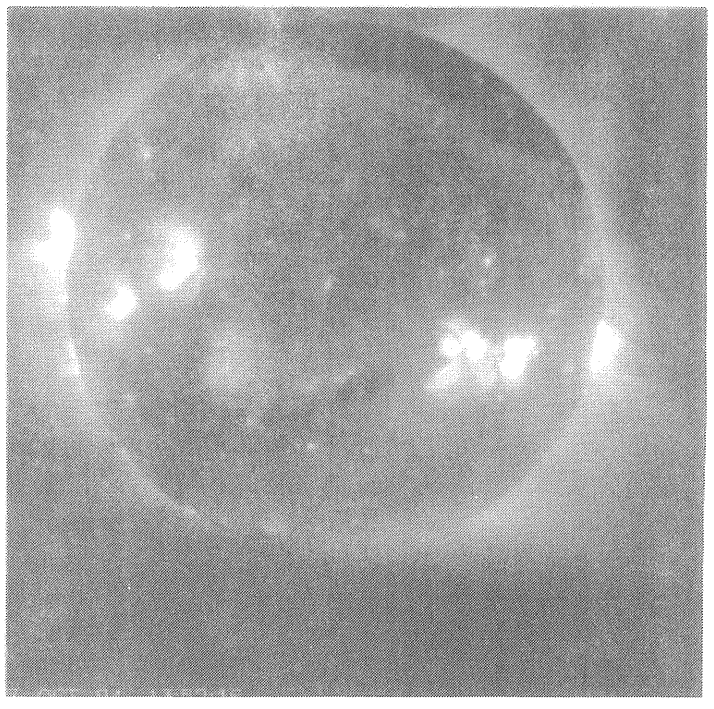
Day 5
14:28:35 UT



Day 7
15:13:50 UT



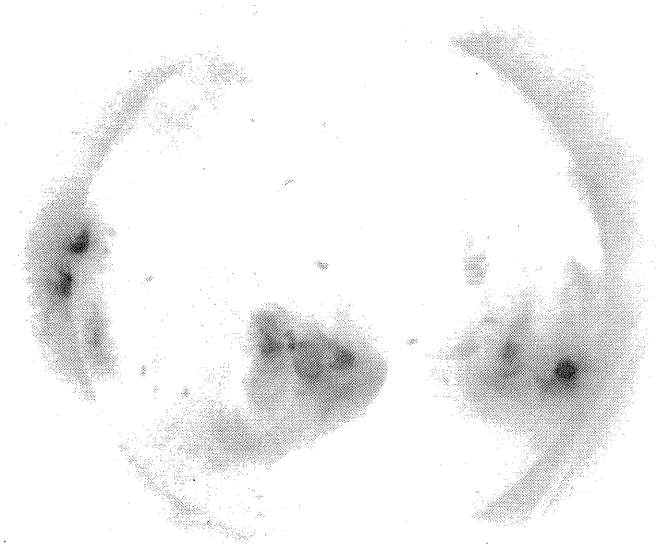
Day 6
14:46:33 UT



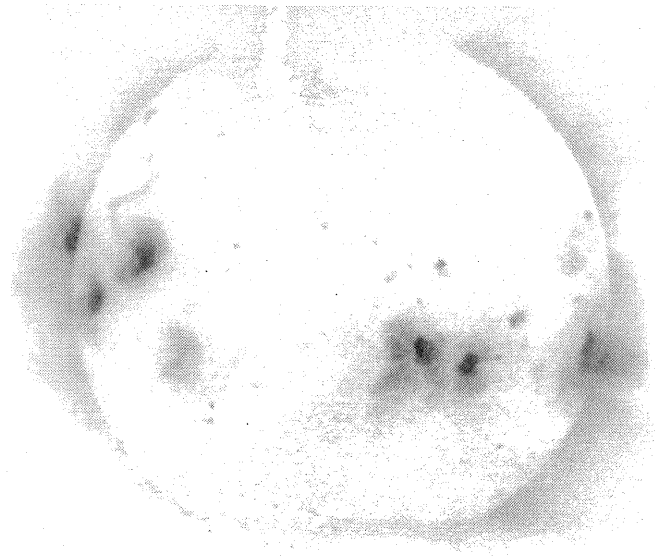
Day 8
13:52:16 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

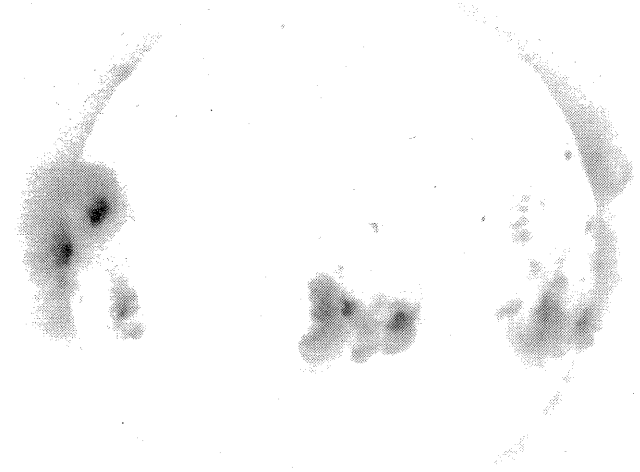
October 1994



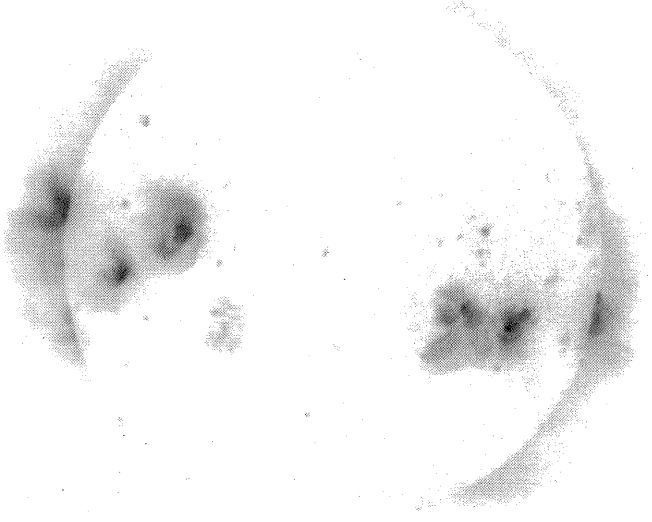
Day 5
14:28:35 UT



Day 7
15:13:50 UT



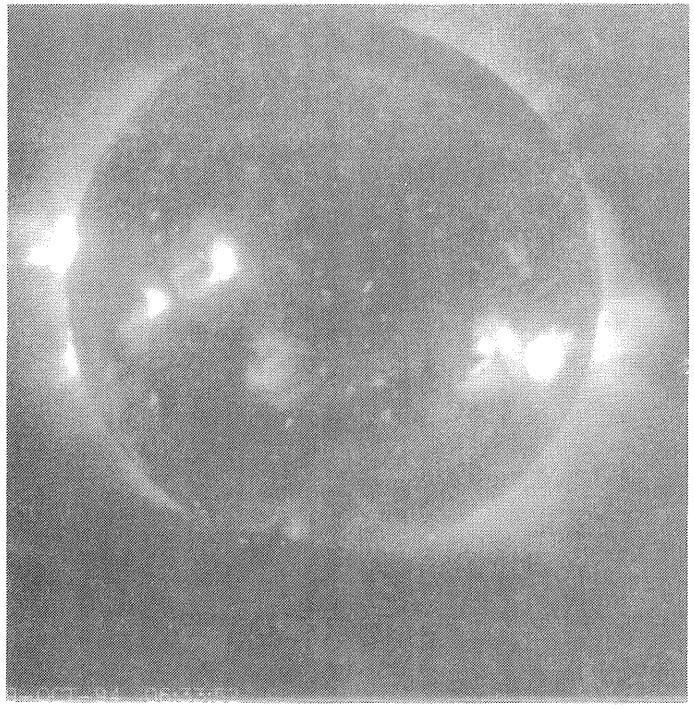
Day 6
14:46:33 UT



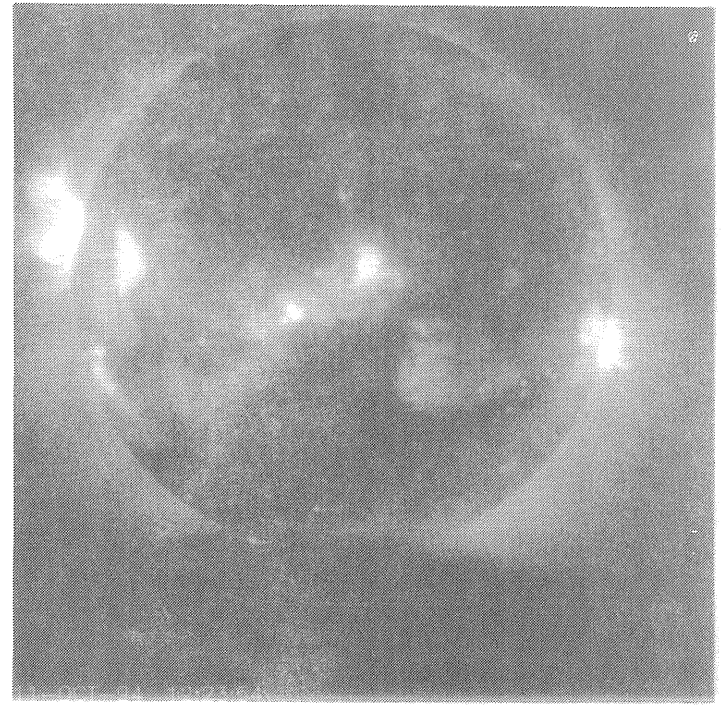
Day 8
13:52:16 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

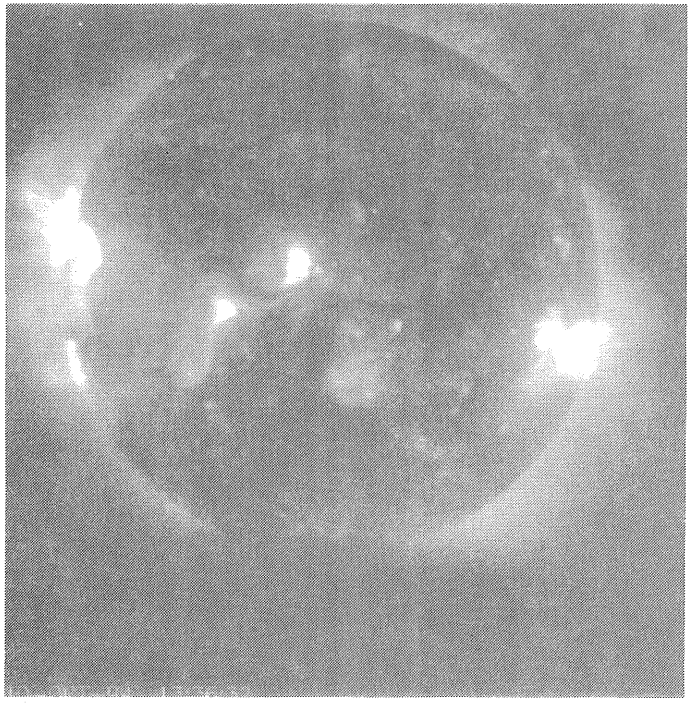
October 1994



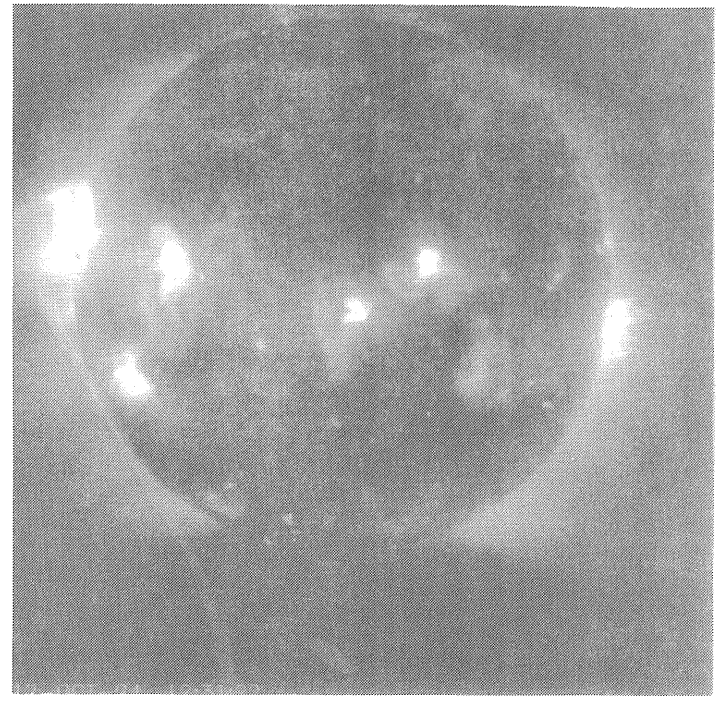
Day 9
06:33:52 UT



Day 11
12:23:54 UT



Day 10
13:36:32 UT



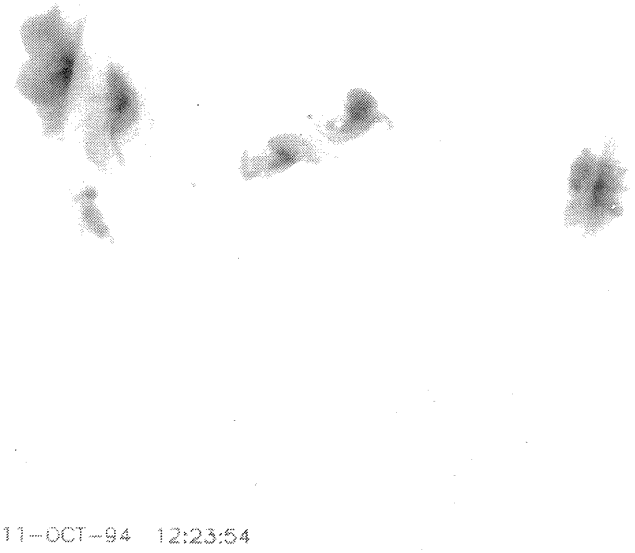
Day 12
12:31:22 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

October 1994

Day 9
06:33:52 UT

Day 11
12:23:54 UT

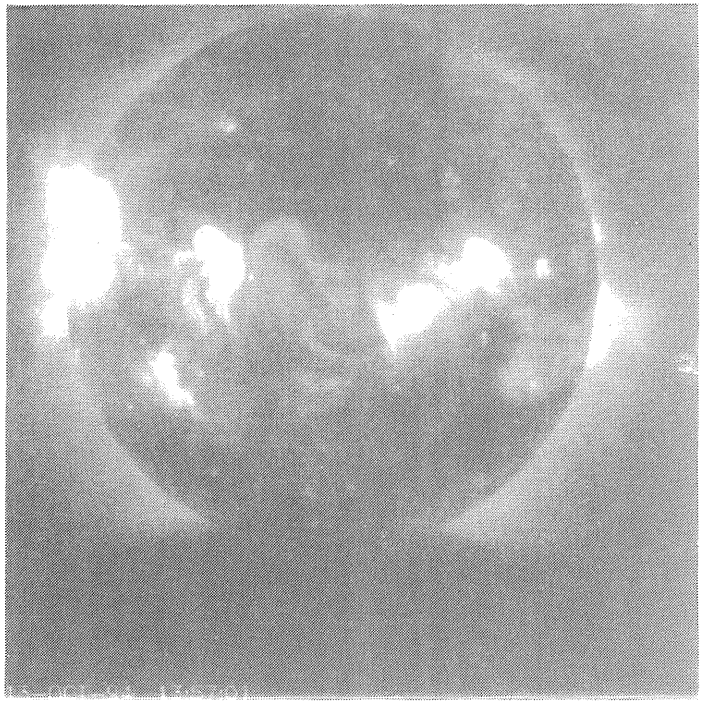


Day 10
13:36:32 UT

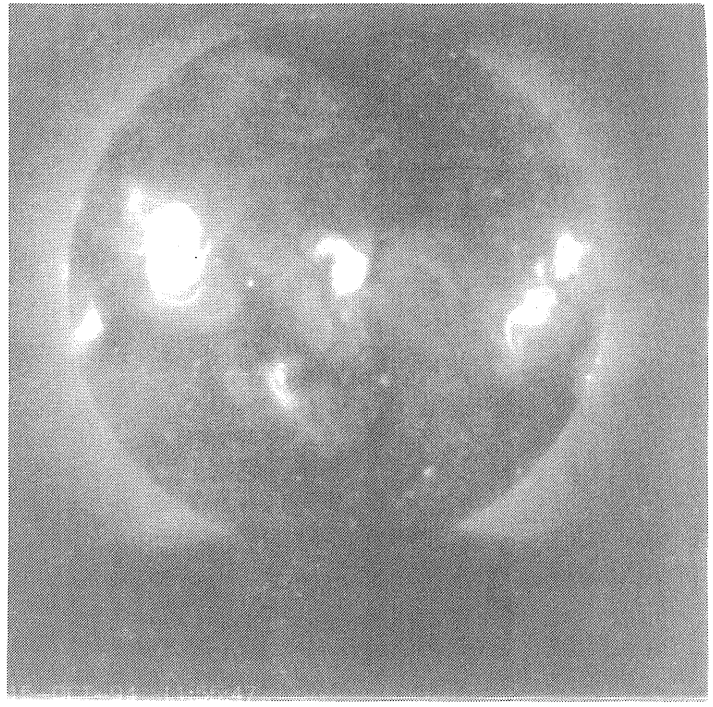
Day 12
12:31:22 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

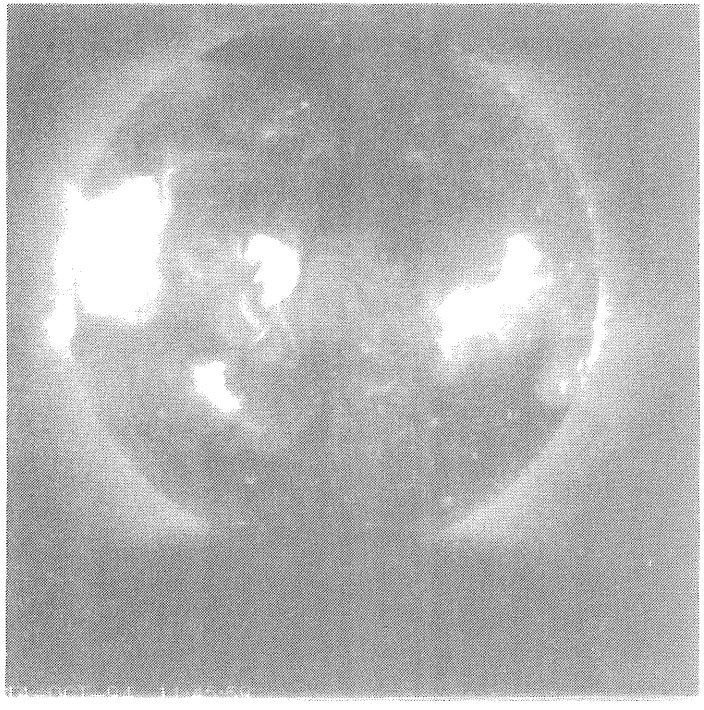
October 1994



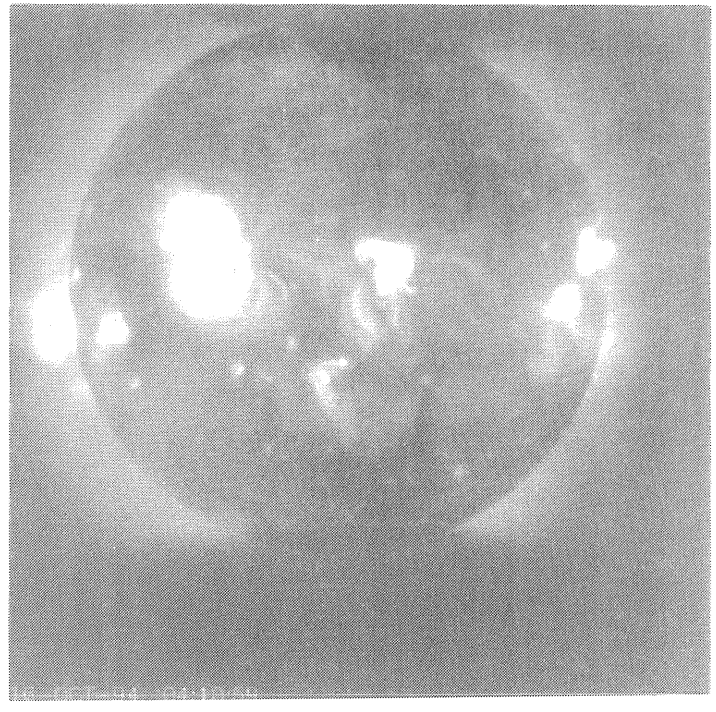
Day 13
13:57:01 UT



Day 15
11:55:47 UT



Day 14
11:45:59 UT

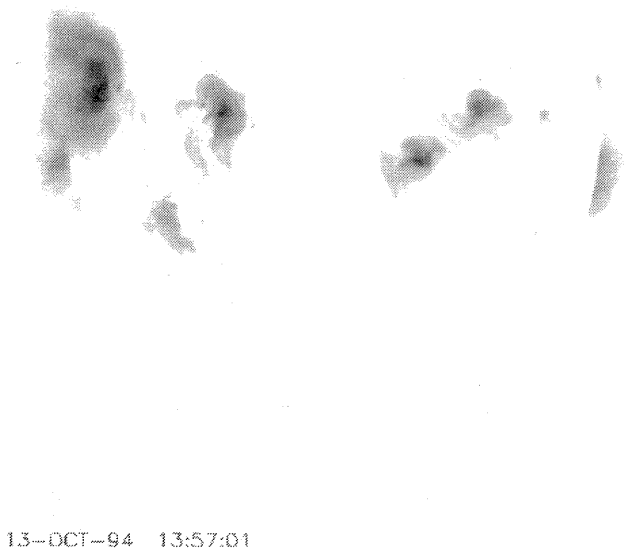


Day 16
04:10:59 UT

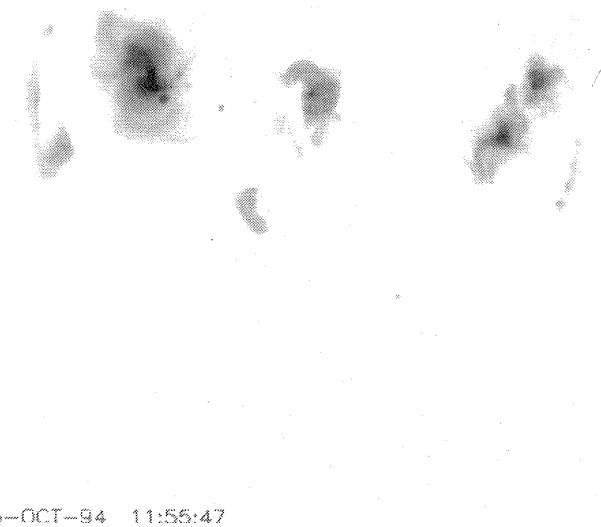
YOHKOH SOFT X-RAY TELESCOPE IMAGES

October 1994

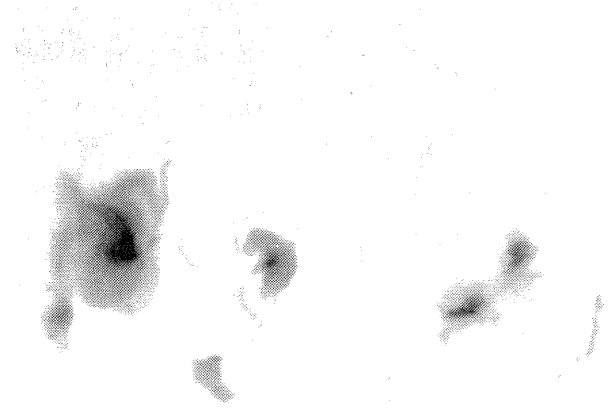
Day 13
13:57:01 UT



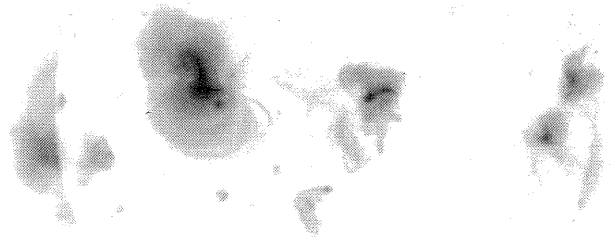
Day 15
11:55:47 UT



Day 14
11:45:59 UT

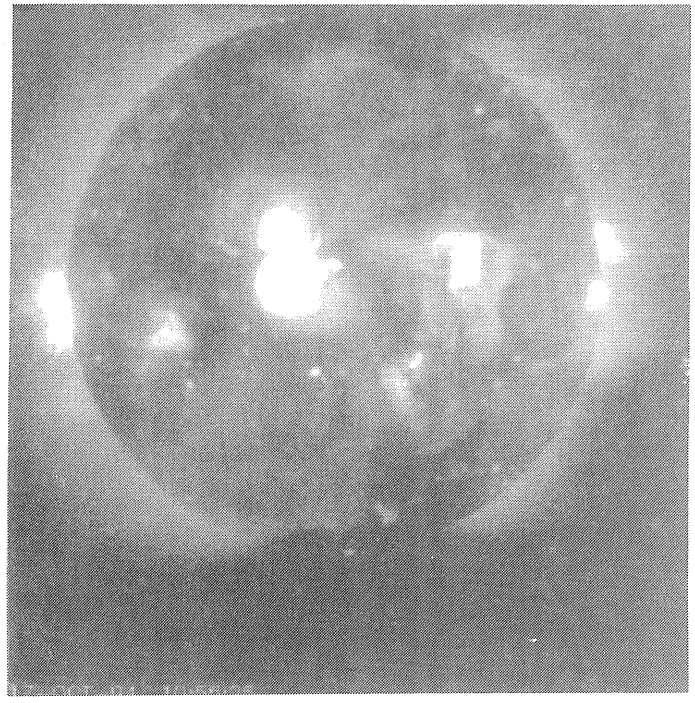


Day 16
04:10:59 UT

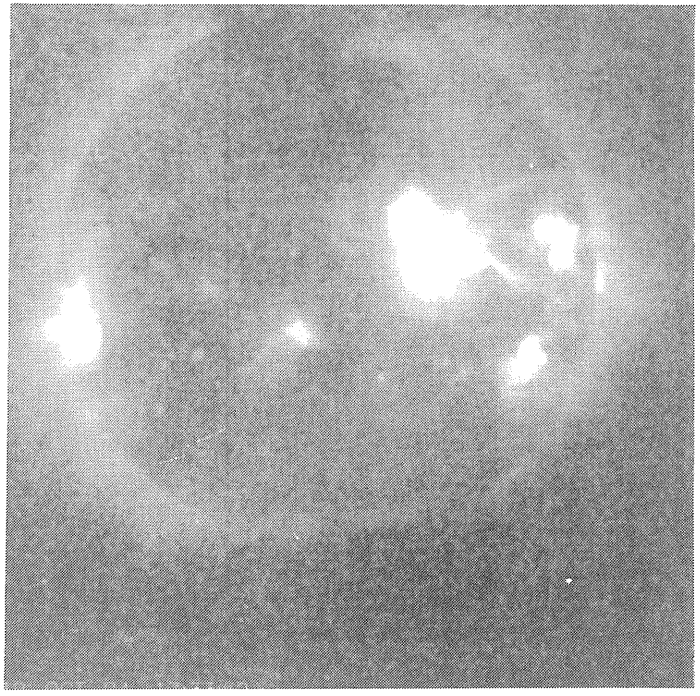


YOHKOH SOFT X-RAY TELESCOPE IMAGES

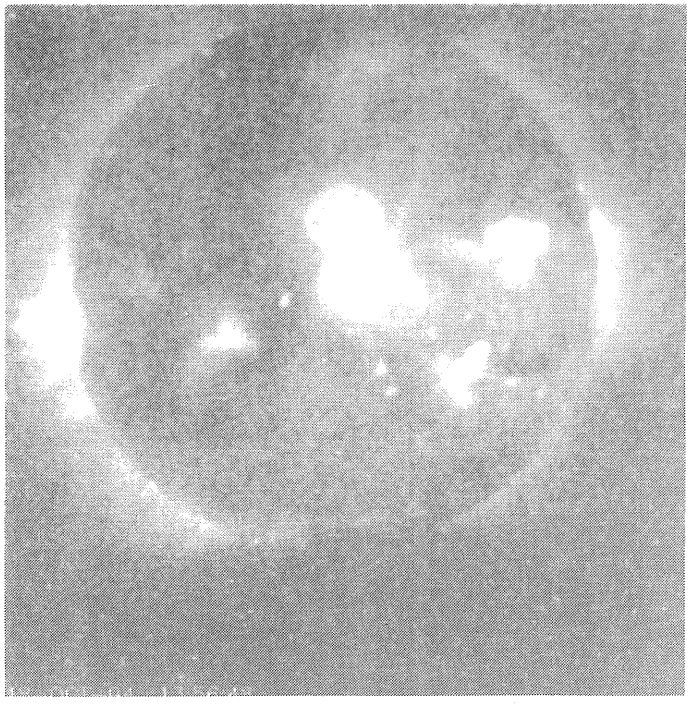
October 1994



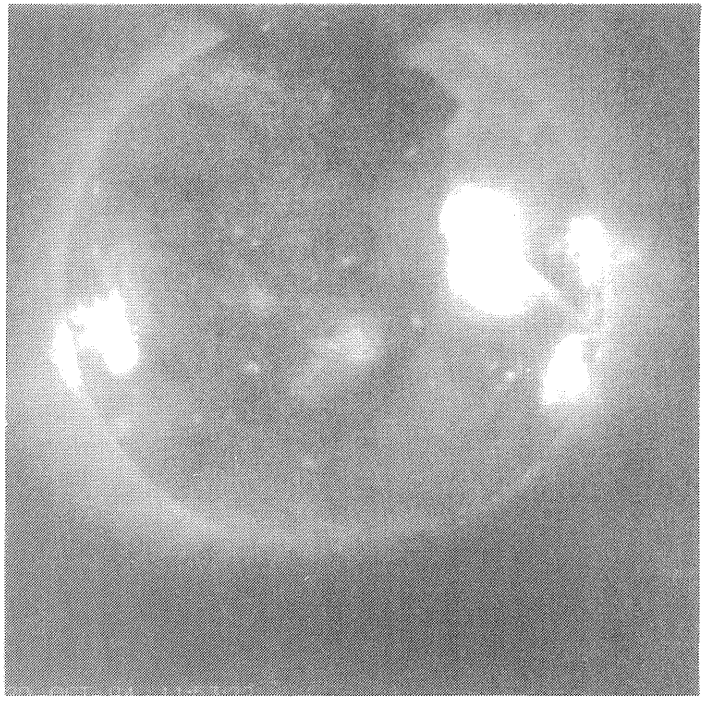
Day 17
10:55:25 UT



Day 19
17:33:52 UT



Day 18
13:56:48 UT

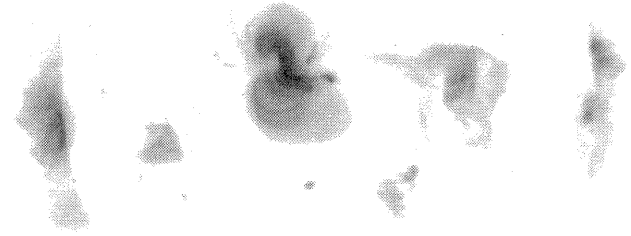


Day 20
11:53:22 UT

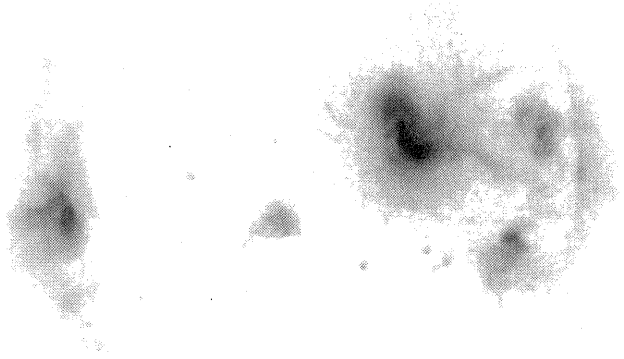
YOHKOH SOFT X-RAY TELESCOPE IMAGES

October 1994

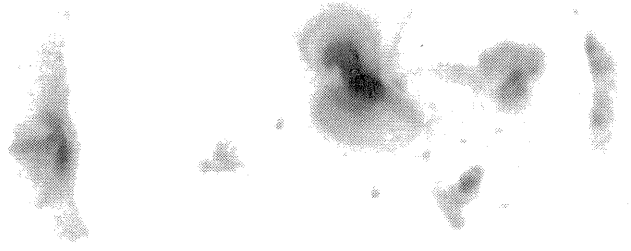
Day 17
10:55:25 UT



Day 19
17:33:52 UT



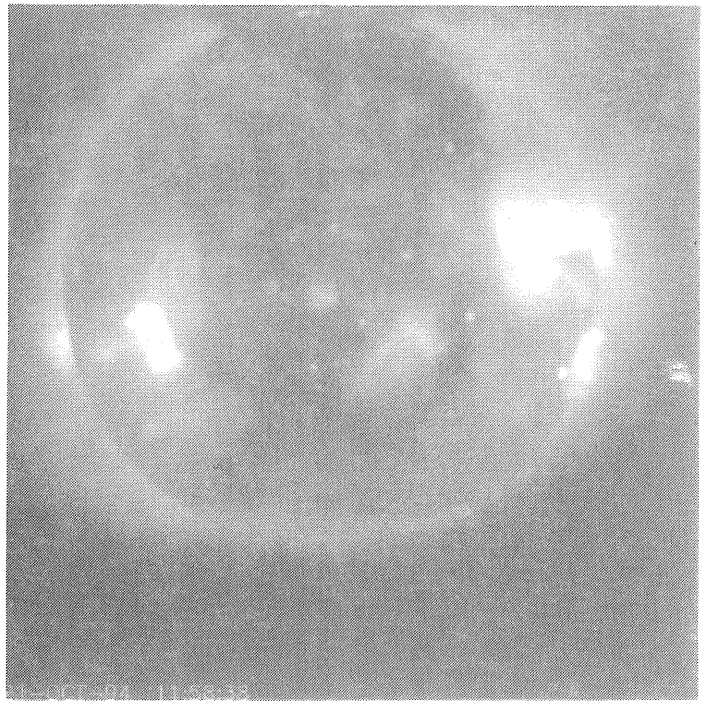
Day 18
13:56:48 UT



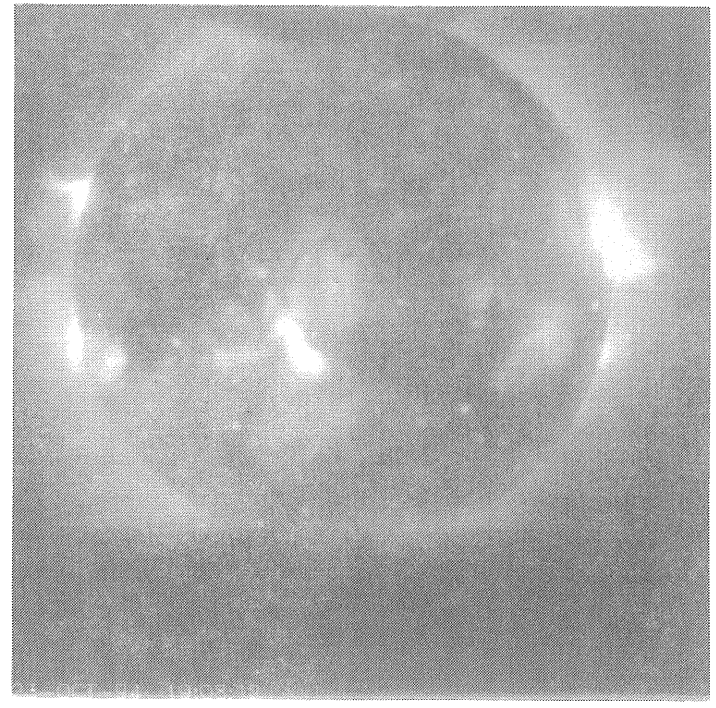
Day 20
11:53:22 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

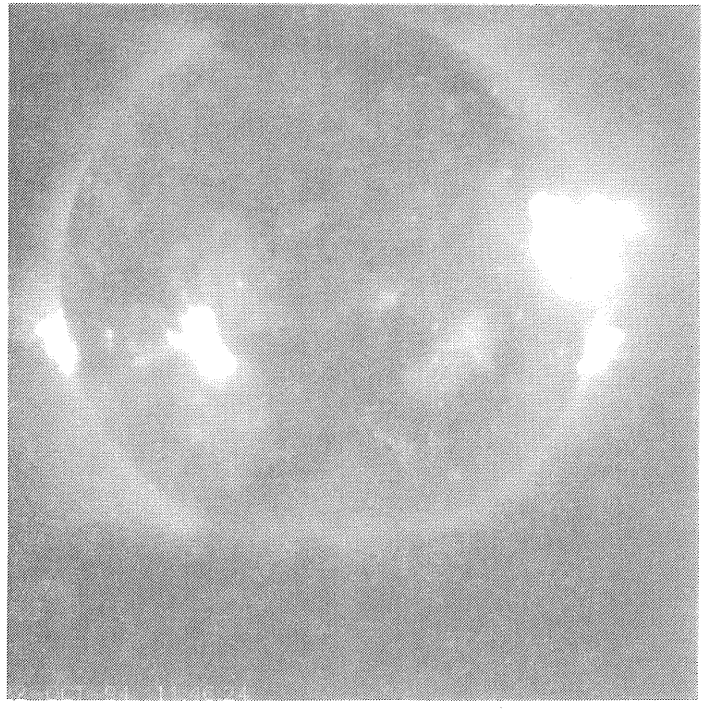
October 1994



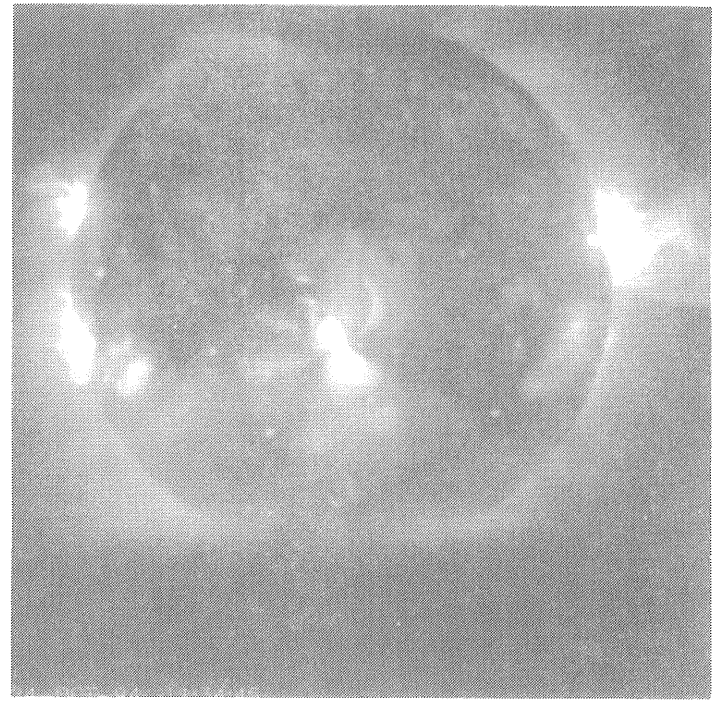
Day 21
11:58:38 UT



Day 23
19:08:12 UT



Day 22
11:46:24 UT

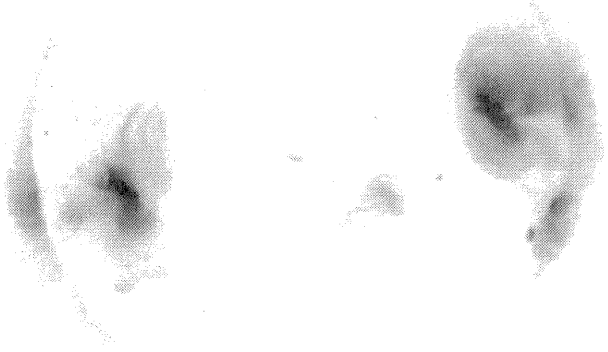


Day 24
11:34:45 UT

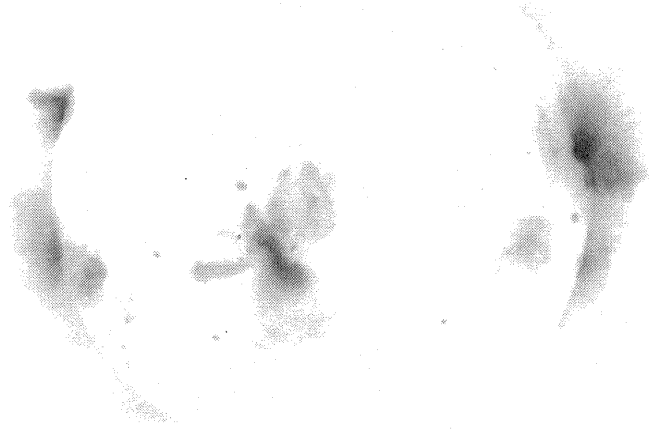
YOHKOH SOFT X-RAY TELESCOPE IMAGES

October 1994

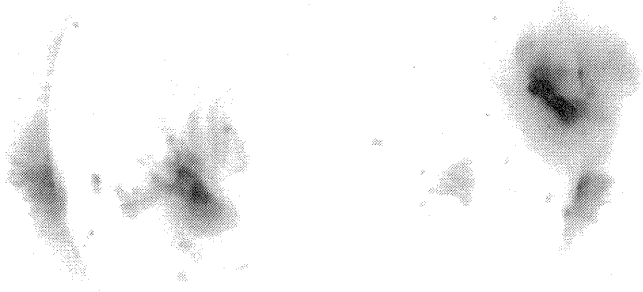
Day 21
11:58:38 UT



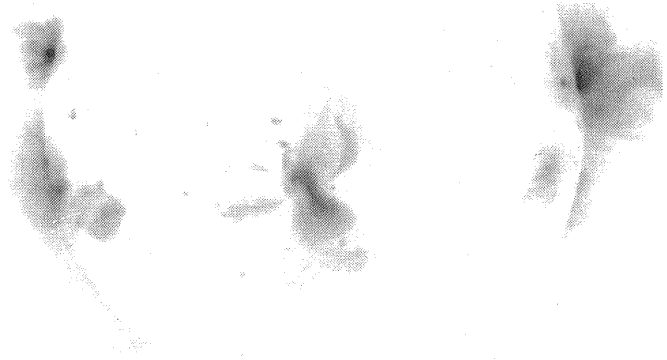
Day 23
19:08:12 UT



Day 22
11:46:24 UT



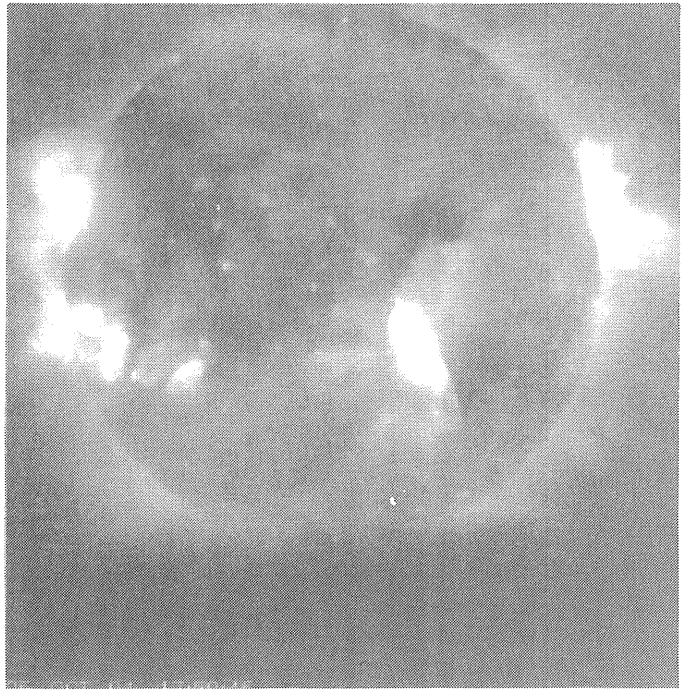
Day 24
11:34:45 UT



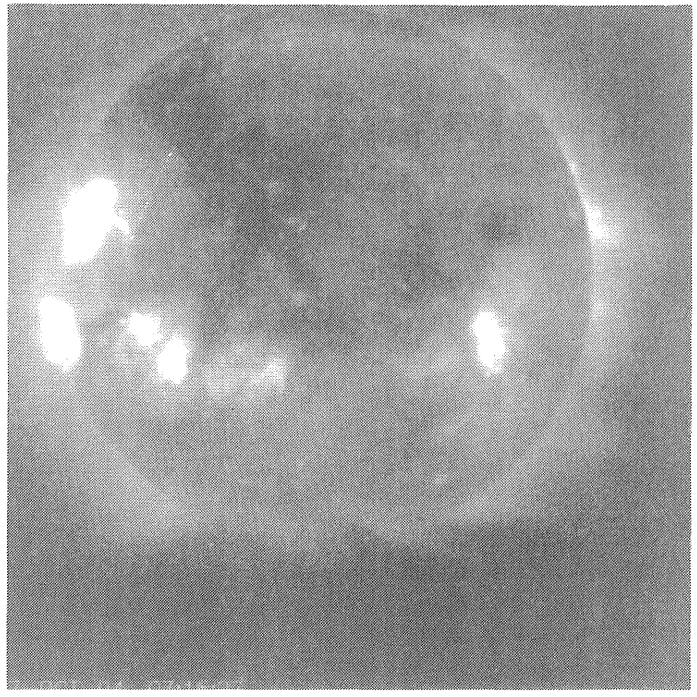
85
Oct 94

YOHKOH SOFT X-RAY TELESCOPE IMAGES

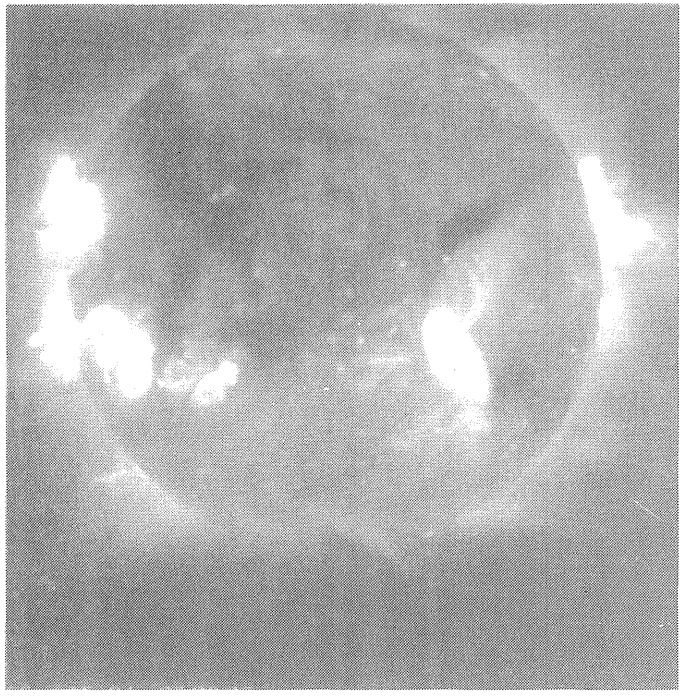
October 1994



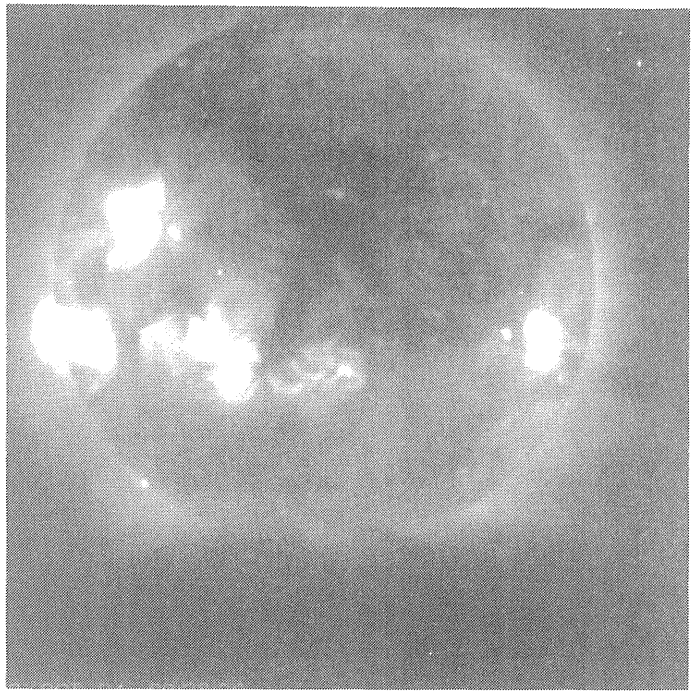
Day 25
17:59:45 UT



Day 27
07:16:27 UT



Day 26
07:02:43 UT

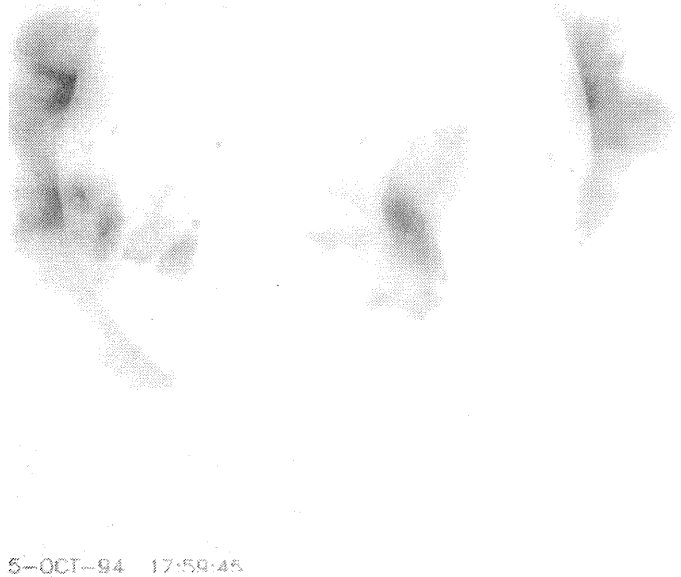


Day 28
09:28:26 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

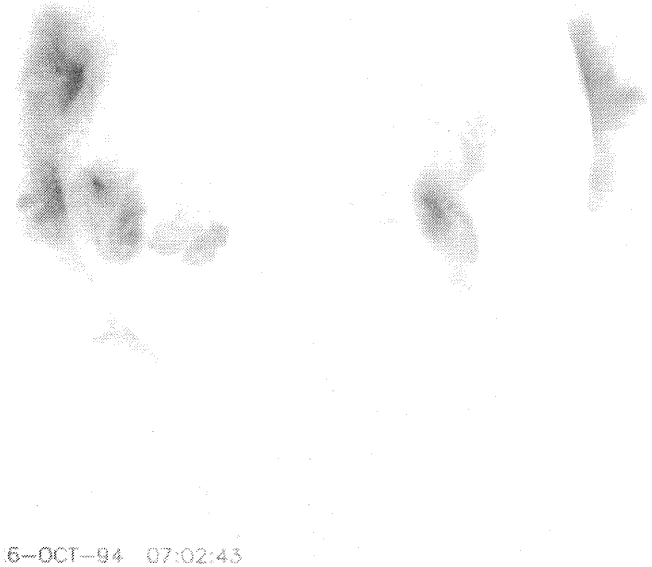
October 1994

Day 25
17:59:45 UT

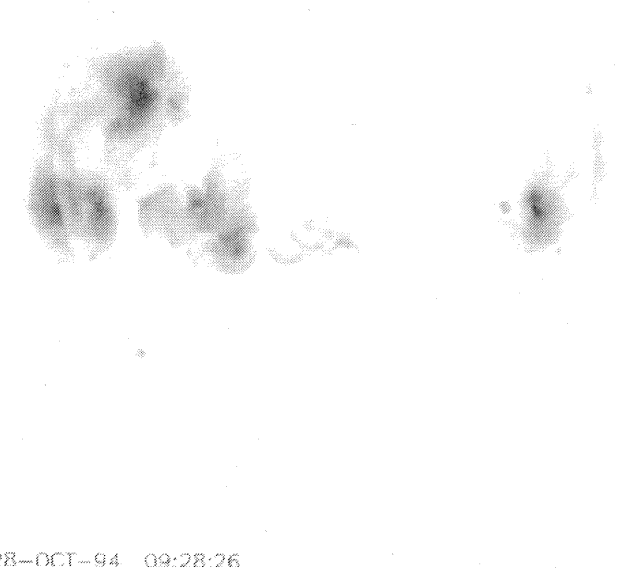


Day 27
07:16:27 UT

Day 26
07:02:43 UT

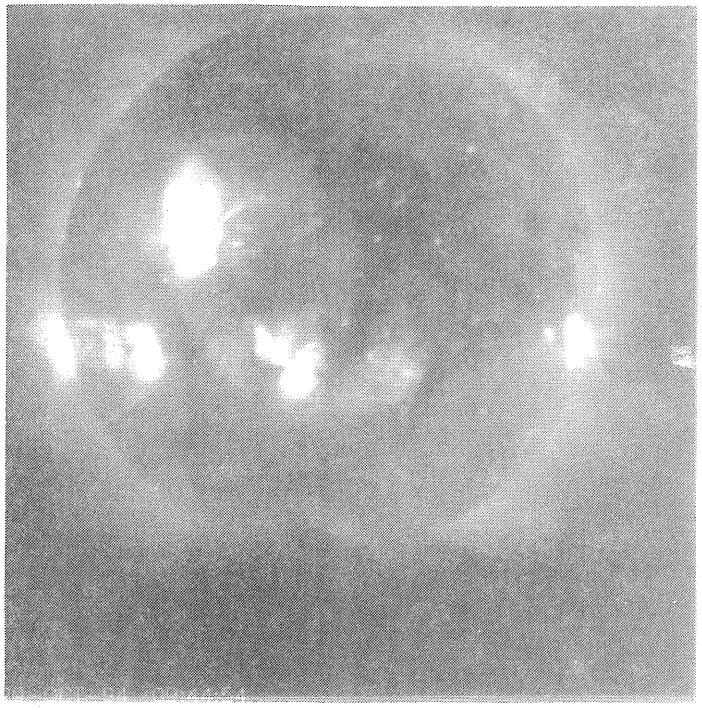


Day 28
09:28:26 UT

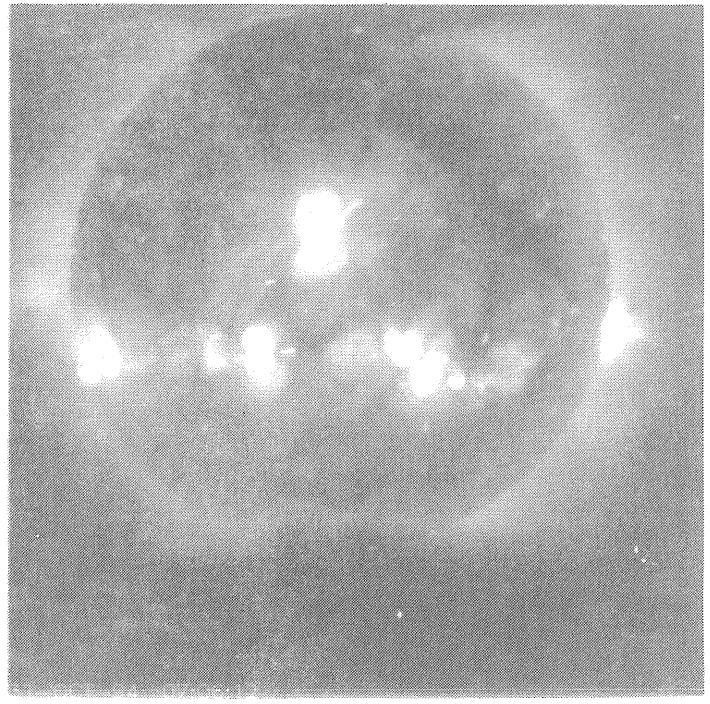


YOHKOH SOFT X-RAY TELESCOPE IMAGES

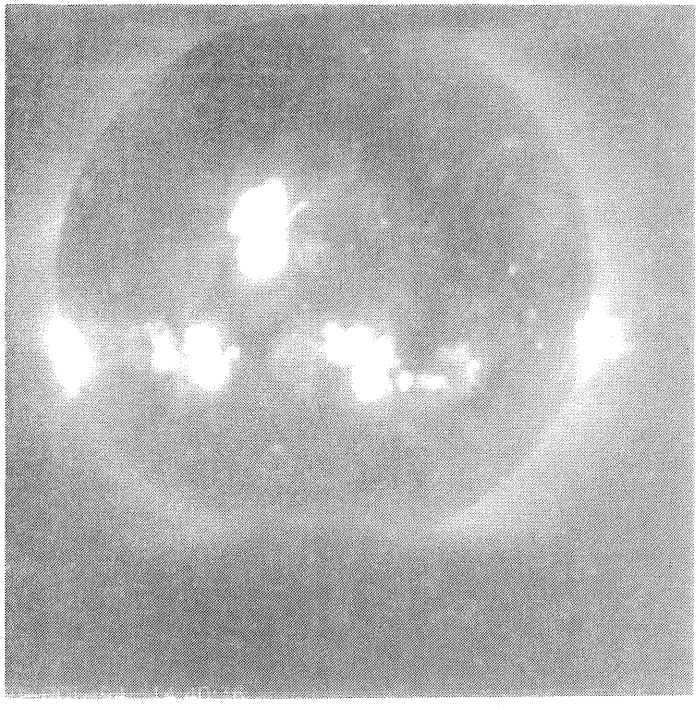
October 1994



Day 29
09:44:54 UT



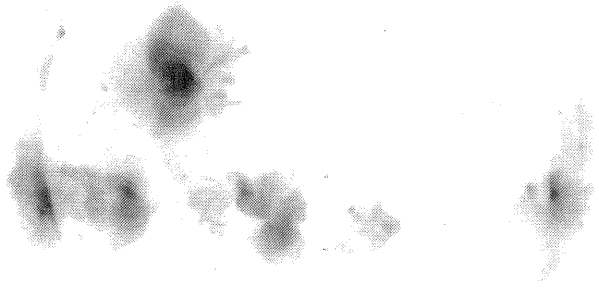
Day 31
07:06:12 UT



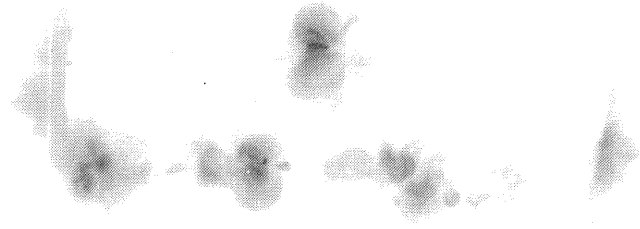
Day 30
14:40:36 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

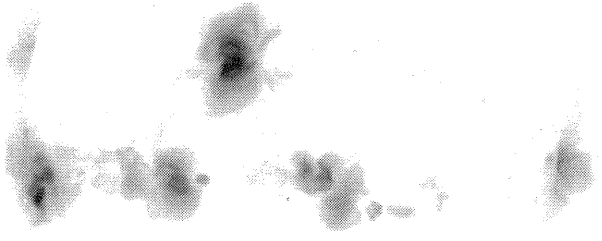
October 1994



Day 29
09:44:54 UT



Day 31
07:06:12 UT



Day 30
14:40:36 UT

SUNSPOT GROUPS
(Ordered by Central Meridian Passage Date)

OCTOBER 1994

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7786		LEAR	10	05	0340	S14	W55	10	1.0		A	AX	20	3	2	2
7786		SVTO	10	05	0720	S14	W56	10	1.1		B	CRO	20	4	4	3
7786		RAMY	10	05	1237	S14	W59	10	1.1		B	CRO	40	6	5	3
7786	28178	MWIL	10	05	1745	S13	W64	09	30.9	4	(B)					
7786		HOLL	10	05	1902	S12	W64	10	1.0		B	CRO	50	4	7	2
7786		LEAR	10	06	0005	S14	W66	10	1.0		B	BXO	30	3	6	3
7786		RAMY	10	06	1132	S15	W70	10	1.2		B	BXO	20	4	5	4
7786		SVTO	10	06	1449	S12	W72	10	1.2		A	AX		1		1
7786	28178	MWIL	10	06	1530	S12	W72	10	1.2	3	X					
7786		HOLL	10	06	1720	S12	W73	10	1.2		A	AX	10	1		2
7783		SVTO	09	26	0720	S06	E84	10	2.6		A	HS	50	1	3	3
7783		RAMY	09	26	1219	S05	E77	10	2.3		A	HS	50	1	1	3
7783	28176	MWIL	09	26	1530	S07	E76	10	2.3	4	(AP)					
7783		PALE	09	26	1800	S08	E78	10	2.6		A	HS	60	1	2	3
7783		HOLL	09	26	1812	S09	E77	10	2.5		A	HS	60	1	2	3
7783		LEAR	09	27	0040	S08	E73	10	2.5		A	HS	50	1	2	2
7783		SVTO	09	27	0810	S07	E69	10	2.5		A	HS	50	1	3	2
7783		RAMY	09	27	1324	S08	E65	10	2.4		A	HS	50	1	2	3
7783		HOLL	09	27	1630	S07	E62	10	2.3		A	HS	70	1	2	2
7783	28176	MWIL	09	27	1730	S07	E61	10	2.3	4	(AP)					
7783		LEAR	09	28	0305	S08	E56	10	2.3		A	HS	70	1	1	3
7783		SVTO	09	28	0702	S07	E55	10	2.4		A	HS	70	1	1	3
7783		RAMY	09	28	1245	S06	E52	10	2.4		A	HS	60	1	2	3
7783	28176	MWIL	09	28	1445	S07	E50	10	2.3	5	(AP)					
7783		HOLL	09	28	1549	S08	E50	10	2.4		A	HS	60	1	2	3
7783		LEAR	09	29	0030	S07	E45	10	2.4		A	HS	60	1	2	3
7783		SVTO	09	29	0800	S06	E41	10	2.4		A	HA	90	1	2	3
7783		RAMY	09	29	1249	S06	E38	10	2.4		A	HS	50	1	2	3
7783		HOLL	09	29	1745	S08	E36	10	2.4		A	HS	100	1	2	3
7783	28176	MWIL	09	29	2140	S08	E33	10	2.4	5	(AP)					
7783		LEAR	09	30	0030	S08	E32	10	2.4		A	HS	50	1	3	3
7783		SVTO	09	30	0805	S07	E29	10	2.5		A	HA	60	1	2	2
7783		RAMY	09	30	1121	S08	E26	10	2.4		A	HS	60	2	7	3
7783	28176	MWIL	09	30	1430	S07	E24	10	2.4	5	(AP)					
7783		HOLL	09	30	1528	S07	E23	10	2.4		A	HS	50	1	2	3
7783		LEAR	10	01	0007	S07	E18	10	2.3		A	HS	70	1	1	3
7783		SVTO	10	01	0750	S07	E15	10	2.4		A	HS	60	1	2	2
7783		RAMY	10	01	1105	S06	E13	10	2.4		A	HS	80	1	2	4
7783	28176	MWIL	10	01	1430	S07	E10	10	2.3	5	AP					
7783		HOLL	10	01	1752	S07	E08	10	2.3		A	HS	60	1	2	1
7783		LEAR	10	02	0130	S07	E04	10	2.4		A	HA	40	1	1	3
7783		SVTO	10	02	0800	S06	E03	10	2.5		A	HS	100	1	1	3
7783		RAMY	10	02	1229	S06	W01	10	2.4		A	HS	60	1	1	4
7783	28176	MWIL	10	02	1430	S06	W03	10	2.4	5	(AP)					
7783		HOLL	10	02	1607	S06	W04	10	2.4		A	HS	50	1	2	3
7783		LEAR	10	03	0030	S06	W08	10	2.4		A	HS	50	1	1	3
7783		SVTO	10	03	0702	S07	W11	10	2.5		A	HS	60	1	1	4
7783		RAMY	10	03	1133	S07	W13	10	2.5		A	HS	60	1	2	4
7783	28176	MWIL	10	03	1430	S06	W15	10	2.5	5	AP					
7783		HOLL	10	03	1832	S07	W17	10	2.5		A	HS	40	1	2	3
7783		RAMY	10	04	1123	S07	W26	10	2.5		A	HA	40	1	2	4
7783		SVTO	10	04	1125	S06	W27	10	2.4		A	HS	70	1	2	3
7783		LEAR	10	05	0340	S06	W37	10	2.4		A	HA	30	1	1	2
7783		SVTO	10	05	0720	S07	W37	10	2.5		A	HS	30	1	1	3
7783		RAMY	10	05	1237	S08	W41	10	2.4		A	HA	50	1	2	3
7783	28176	MWIL	10	05	1745	S06	W43	10	2.5	5	(AP)					
7783		HOLL	10	05	1902	S06	W45	10	2.4		A	HA	60	1	2	2
7783		LEAR	10	06	0005	S07	W47	10	2.5		A	HS	30	1	1	3
7783		RAMY	10	06	1132	S08	W52	10	2.6		A	HS	30	1	1	4
7783		SVTO	10	06	1449	S08	W54	10	2.6		A	HS	20	1	1	1
7783	28176	MWIL	10	06	1530	S06	W55	10	2.5	4	(AP)					
7783		HOLL	10	06	1720	S06	W57	10	2.4		A	HS	40	1	1	2
7783		LEAR	10	07	0023	S07	W61	10	2.4		A	HS	60	1	2	3
7783		SVTO	10	07	0755	S10	W64	10	2.5		A	HS	30	1	1	3
7783		RAMY	10	07	1150	S08	W66	10	2.5		A	HS	50	1	1	4
7783	28176	MWIL	10	07	1430	S06	W68	10	2.5	5	(AP)					
7783		HOLL	10	07	1640	S06	W69	10	2.5		A	HS	50	1	1	3
7783		LEAR	10	08	0130	S07	W74	10	2.5		A	HA	30	1	1	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo	Day	(UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7783		RAMY	10	08	1252	S08	W80	10	2.5		A	AX	10	1	1	4
7783		HOLL	10	08	1402	S06	W79	10	2.7		A	HS	30	1	1	3
7783		SVTO	10	08	1420	S08	W80	10	2.6		A	AX	20	1		2
7783	28176	MWIL	10	08	1445	S06	W81	10	2.5	4	(AP)					
7785		RAMY	10	04	1123	S08	E12	10	5.4		A	HA	20	1	1	4
7785		SVTO	10	04	1125	S08	E11	10	5.3		A	HR	10	1		3
7785		LEAR	10	05	0340	S09	E03	10	5.4		B	BXO	10	3	5	2
7785		SVTO	10	05	0720	S08	E02	10	5.4		B	CRO	20	6	5	3
7785		RAMY	10	05	1237	S09	W02	10	5.4		B	BXO	10	8	4	3
7785	28179	MWIL	10	05	1745	S08	W04	10	5.4	5	(B)					
7785		HOLL	10	05	1902	S09	W06	10	5.3		B	DRO	30	7	6	2
7785		LEAR	10	06	0005	S10	W08	10	5.4		B	CRO	30	8	5	3
7785		RAMY	10	06	1132	S09	W12	10	5.6		B	DAO	50	7	5	4
7785		SVTO	10	06	1449	S09	W15	10	5.5		B	DAO	90	6	5	1
7785	28179	MWIL	10	06	1530	S09	W16	10	5.4	4	(B)					
7785		HOLL	10	06	1720	S09	W17	10	5.4		B	DRO	50	8	6	2
7785		LEAR	10	07	0023	S09	W22	10	5.4		B	BXO	30	5	6	3
7785		SVTO	10	07	0755	S11	W24	10	5.5		B	DAO	60	15	8	3
7785		RAMY	10	07	1150	S11	W27	10	5.5		B	CAO	40	12	5	4
7785	28179	MWIL	10	07	1430	S09	W28	10	5.5	5	(B)					
7785		HOLL	10	07	1640	S08	W29	10	5.5		B	DAO	30	5	7	3
7785		LEAR	10	08	0130	S10	W35	10	5.4		B	CRO	20	8	6	3
7785		RAMY	10	08	1252	S11	W41	10	5.4		B	BXO	50	12	6	4
7785		HOLL	10	08	1402	S08	W42	10	5.4		B	BXO	40	9	6	3
7785		SVTO	10	08	1420	S11	W43	10	5.4		B	BXO	20	5	6	2
7785	28179	MWIL	10	08	1445	S10	W42	10	5.4	4	(B)					
7785		LEAR	10	09	0100	S08	W48	10	5.4		B	CAO	50	7	5	3
7785		SVTO	10	09	0657	S11	W50	10	5.5		B	BXO	40	12	9	2
7785		RAMY	10	09	1222	S09	W54	10	5.5		B	CRI	80	18	6	4
7785	28179	MWIL	10	09	1445	S09	W55	10	5.5	5	(D)					
7785		HOLL	10	09	1755	S08	W58	10	5.4		B	CAI	80	14	7	2
7785		LEAR	10	10	0230	S08	W61	10	5.5		B	DAO	90	8	9	3
7785		SVTO	10	10	1001	S11	W67	10	5.4		B	ESO	50	4	8	2
7785		RAMY	10	10	1212	S12	W68	10	5.4		B	CSO	120	12	8	4
7785	28179	MWIL	10	10	1445	S09	W68	10	5.5	5	(B)					
7785		HOLL	10	10	1745	S08	W70	10	5.5		B	DAO	150	5	10	2
7785		LEAR	10	11	0035	S10	W76	10	5.3		B	DRO	70	6	9	4
7785		RAMY	10	11	1240	S11	W78	10	5.6		A	AX	10	2	1	3
7785		SVTO	10	11	1306	S13	W80	10	5.5		B	CAO	40	2	7	2
7785	28179	MWIL	10	11	1745	S09	W80	10	5.7	4	(AF)					
7784	28177	MWIL	09	29	2140	S06	E85	10	6.3	4	AP					
7784		SVTO	09	30	0805	S04	E80	10	6.3		A	HS	50	1	7	2
7784		RAMY	09	30	1121	S03	E77	10	6.2		A	HS	90	2	2	3
7784	28177	MWIL	09	30	1430	S06	E75	10	6.2	4	(AP)					
7784		HOLL	09	30	1528	S06	E75	10	6.2		A	HS	120	1	2	3
7784		LEAR	10	01	0007	S07	E70	10	6.2		A	HS	110	1	2	3
7784		SVTO	10	01	0750	S05	E68	10	6.4		A	HA	100	2	3	2
7784		RAMY	10	01	1105	S04	E65	10	6.3		A	HS	150	2	2	4
7784	28177	MWIL	10	01	1430	S06	E62	10	6.2	5	AP					
7784		HOLL	10	01	1752	S06	E60	10	6.2		A	HS	120	1	2	1
7784		LEAR	10	02	0130	S08	E56	10	6.3		A	HA	70	1	1	3
7784		SVTO	10	02	0800	S04	E55	10	6.4		A	HS	60	1	1	3
7784		RAMY	10	02	1229	S04	E51	10	6.3		A	HS	90	1	2	4
7784	28177	MWIL	10	02	1430	S06	E49	10	6.3	5	(AP)					
7784		HOLL	10	02	1607	S07	E49	10	6.3		A	HS	110	1	2	3
7784		LEAR	10	03	0030	S06	E43	10	6.2		A	HS	80	1	2	3
7784		SVTO	10	03	0702	S04	E41	10	6.3		A	HS	90	1	1	4
7784		RAMY	10	03	1133	S04	E38	10	6.3		A	HS	100	1	2	4
7784	28177	MWIL	10	03	1430	S06	E37	10	6.4	5	AP					
7784		HOLL	10	03	1832	S07	E35	10	6.4		A	HS	120	1	2	3
7784		RAMY	10	04	1123	S04	E27	10	6.5		A	HS	120	2	2	4
7784		SVTO	10	04	1125	S05	E26	10	6.4		A	HS	100	2	2	3
7784		LEAR	10	05	0340	S06	E17	10	6.4		A	HS	80	1	2	2
7784		SVTO	10	05	0720	S05	E15	10	6.4		A	HS	80	4	2	3
7784		RAMY	10	05	1237	S07	E12	10	6.4		B	CSO	90	7	3	3
7784	28177	MWIL	10	05	1745	S06	E09	10	6.4	5	(BF)					
7784		HOLL	10	05	1902	S07	E08	10	6.4		B	CAO	100	7	3	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7784		LEAR	10 06 0005	S08 E05	10 6.4		B	CAO	110	8	2	3
7784		RAMY	10 06 1132	S06 E01	10 6.5		B	CAO	120	8	4	4
7784		SVTO	10 06 1449	S06 W02	10 6.5		B	CSO	50	7	4	1
7784	28177	MWIL	10 06 1530	S07 W03	10 6.4	5	(BF)					
7784		HOLL	10 06 1720	S07 W04	10 6.4		B	CAO	110	8	3	2
7784		LEAR	10 07 0023	S08 W08	10 6.4		A	HS	70	7	4	3
7784		SVTO	10 07 0755	S07 W12	10 6.4		B	CSI	70	9	2	3
7784		RAMY	10 07 1150	S07 W13	10 6.5		B	CSO	110	3	3	4
7784	28177	MWIL	10 07 1430	S06 W16	10 6.4	5	(BF)					
7784		HOLL	10 07 1640	S06 W16	10 6.5		B	CSO	90	2	3	3
7784		LEAR	10 08 0130	S07 W23	10 6.3		B	CSO	90	4	3	3
7784		RAMY	10 08 1252	S06 W28	10 6.4		B	CSO	110	2	3	4
7784		HOLL	10 08 1402	S07 W28	10 6.5		B	CSO	90	2	3	3
7784		SVTO	10 08 1420	S06 W28	10 6.5		B	CSO	70	2	3	2
7784	28177	MWIL	10 08 1445	S06 W29	10 6.4	5	(BF)					
7784		LEAR	10 09 0100	S07 W36	10 6.3		A	HS	70	1	2	3
7784		SVTO	10 09 0657	S08 W38	10 6.4		A	HS	50	1	1	2
7784		RAMY	10 09 1222	S07 W42	10 6.4		A	HS	80	1	2	4
7784	28177	MWIL	10 09 1445	S06 W43	10 6.4	5	(AP)					
7784		HOLL	10 09 1755	S07 W45	10 6.4		A	HS	100	1	2	2
7784		LEAR	10 10 0230	S07 W48	10 6.5		A	HA	60	3	1	3
7784		SVTO	10 10 1001	S08 W54	10 6.4		A	HS	30	1	2	2
7784		RAMY	10 10 1212	S08 W55	10 6.4		A	HS	100	1	2	4
7784	28177	MWIL	10 10 1445	S06 W55	10 6.5	5	(AP)					
7784		HOLL	10 10 1745	S06 W58	10 6.4		A	HS	100	1	2	2
7784		LEAR	10 11 0035	S08 W62	10 6.4		A	HS	70	2	2	4
7784		RAMY	10 11 1240	S08 W67	10 6.5		A	HA	20	1	2	3
7784		SVTO	10 11 1306	S10 W68	10 6.4		A	HA	70	3	1	2
7784		HOLL	10 11 1434	S06 W69	10 6.4		A	HS	50	1	2	3
7784	28177	MWIL	10 11 1745	S07 W69	10 6.6	5	(AP)					
7784		LEAR	10 12 0015	S08 W75	10 6.4		A	HS	30	2	2	3
7784		RAMY	10 12 1309	S08 W80	10 6.5		A	HS	20	1	1	4
7784	28177	MWIL	10 12 1445	S06 W81	10 6.5	4	(AP)					
7784A		RAMY	10 09 1222	N05 E12	10 10.4		A	AX		1		4
7787		SVTO	10 05 0720	N12 E80	10 11.3		A	AX		1		3
7787		RAMY	10 05 1237	N11 E74	10 11.1		B	BXO	10	2	3	3
7787	28180	MWIL	10 05 1745	N10 E71	10 11.1	4	(B)					
7787		HOLL	10 05 1902	N07 E70	10 11.0		B	BXO	40	4	6	2
7787		LEAR	10 06 0005	N09 E67	10 11.0		B	BXO	30	5	5	3
7787		RAMY	10 06 1132	N12 E64	10 11.3		B	BXO	60	9	7	4
7787		SVTO	10 06 1449	N14 E60	10 11.1		B	DRO	80	9	8	1
7787	28180	MWIL	10 06 1530	N10 E59	10 11.1	4	(B)					
7787		HOLL	10 06 1720	N11 E58	10 11.1		B	DRO	60	9	7	2
7787		LEAR	10 07 0023	N10 E55	10 11.1		B	CRO	50	16	7	3
7787		SVTO	10 07 0755	N12 E52	10 11.2		B	DAI	50	9	7	3
7787		RAMY	10 07 1150	N12 E48	10 11.1		B	DAO	90	10	6	4
7787	28180	MWIL	10 07 1430	N09 E47	10 11.1	5	(B)					
7787		HOLL	10 07 1640	N08 E45	10 11.1		B	DAO	90	16	7	3
7787		LEAR	10 08 0130	N09 E41	10 11.1		B	CAO	140	9	7	3
7787		RAMY	10 08 1252	N09 E34	10 11.1		B	DSO	100	14	7	4
7787		HOLL	10 08 1402	N09 E34	10 11.1		B	DSO	110	13	7	3
7787		SVTO	10 08 1420	N11 E34	10 11.1		B	CAO	60	9	7	2
7787	28180	MWIL	10 08 1445	N09 E33	10 11.1	5	(B)					
7787		LEAR	10 09 0100	N08 E28	10 11.1		B	DAO	50	9	6	3
7787		SVTO	10 09 0657	N10 E25	10 11.2		B	DAO	70	17	7	2
7787		RAMY	10 09 1222	N09 E21	10 11.1		B	CSO	100	22	7	4
7787	28180	MWIL	10 09 1445	N09 E19	10 11.0	5	(BG)					
7787		HOLL	10 09 1755	N08 E18	10 11.1		B	DAO	120	11	7	2
7787		LEAR	10 10 0230	N09 E14	10 11.1		B	CSO	80	11	8	3
7787		SVTO	10 10 1001	N08 E09	10 11.1		B	CSC	120	4	7	2
7787		RAMY	10 10 1212	N09 E08	10 11.1		B	CSO	130	12	7	4
7787	28180	MWIL	10 10 1445	N09 E06	10 11.1	5	(B)					
7787		HOLL	10 10 1745	N08 E05	10 11.1		B	DAO	110	5	6	2
7787		LEAR	10 11 0035	N09 E01	10 11.1		B	CSO	80	6	5	4
7787		RAMY	10 11 1240	N08 W07	10 11.0		B	CAO	50	4	3	3
7787		SVTO	10 11 1306	N08 W08	10 10.9		A	HA	60	5	1	2
7787		HOLL	10 11 1434	N09 W08	10 11.0		A	HS	60	1	2	3

S U N S P O T G R O U P S
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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7787	28180	MWIL	10 11 1745	N08 W07	10 11.2	5	(BP)					
7787		LEAR	10 12 0015	N08 W13	10 11.0		B	CSO	60	5	3	3
7787		SVTO	10 12 1015	N07 W18	10 11.1		A	HS	60	2	2	2
7787		RAMY	10 12 1309	N08 W21	10 11.0		A	HA	40	2	2	4
7787	28180	MWIL	10 12 1445	N08 W22	10 11.0	5	(AP)					
7787		LEAR	10 13 0045	N09 W27	10 11.0		B	CAO	30	2	1	3
7787		RAMY	10 13 1120	N08 W32	10 11.1		A	HA	30	3	2	4
7787		SVTO	10 13 1123	N07 W34	10 10.9		B	BXO	30	3	2	3
7787	28180	MWIL	10 13 1500	N09 W34	10 11.1	4	(AP)					
7787		LEAR	10 14 0153	N09 W42	10 10.9		A	AXO	30	3	3	3
7787		SVTO	10 14 1010	N06 W45	10 11.0		A	AX	40	1	1	3
7787		RAMY	10 14 1135	N09 W47	10 10.9		A	AX	10	2	1	3
7787	28180	MWIL	10 14 1500	N09 W48	10 11.0	4	(AP)					
7787		LEAR	10 15 0230	N10 W55	10 11.0		A	AXO	10	3	2	3
7787		SVTO	10 15 0930	N07 W59	10 11.0		A	AX		1		3
7788		RAMY	10 10 1212	N00 E22	10 12.1		B	BXO	10	2	2	4
7788		LEAR	10 12 0015	N00 E05	10 12.4		A	AX		1		3
7788		RAMY	10 13 1120	S02 W16	10 12.3		A	AX		1		4
7788	28184	MWIL	10 13 1500	S01 W20	10 12.1	3	(AP)					
7788		LEAR	10 14 0153	N00 W28	10 12.0		B	CSO	30	7	5	3
7788		SVTO	10 14 1010	S03 W28	10 12.3		B	BXO	10	6	5	3
7788		RAMY	10 14 1135	S01 W31	10 12.2		A	BXO	40	16	6	3
7788	28184	MWIL	10 14 1500	S01 W33	10 12.2	4	(B)					
7788		LEAR	10 15 0230	N00 W40	10 12.1		B	BXO	20	4	6	3
7788		SVTO	10 15 0930	S01 W44	10 12.1		B	BXO	10	5	6	3
7788		RAMY	10 15 1207	S01 W46	10 12.1		B	BXO	30	7	3	4
7788	28184	MWIL	10 15 1600	S01 W50	10 11.9	4	(AF)					
7788		LEAR	10 16 0040	S01 W56	10 11.8		A	AX	20	1	1	3
7788		RAMY	10 16 1222	S03 W62	10 11.9		A	AX	10	1	1	3
7788	28184	MWIL	10 16 1500	S01 W62	10 12.0	4	(AF)					
7788		LEAR	10 17 0005	S02 W69	10 11.8		A	AX	10	1	1	3
7788	28184	MWIL	10 17 1445	S02 W77	10 11.9	3	AF					
7788A		SVTO	10 06 1449	N03 E80	10 12.6		A	AX		2	1	1
7788A	28181	MWIL	10 06 1530	S01 E76	10 12.3	3	X					
7788A		LEAR	10 07 0023	S02 E72	10 12.4		A	AX	10	1	1	3
7788A		RAMY	10 07 1150	N02 E67	10 12.5		A	AX	50	1		4
7788A	28181	MWIL	10 07 1430	S01 E64	10 12.4	4	(AP)					
7788A		HOLL	10 07 1640	S02 E65	10 12.6		A	AX		1		3
7789		LEAR	10 09 0100	N12 E79	10 15.0		A	HA	60	1	3	3
7789		SVTO	10 09 0657	N09 E79	10 15.2		A	HA	120	1	1	2
7789		RAMY	10 09 1222	N07 E77	10 15.3		B	CSO	140	3	7	4
7789	28182	MWIL	10 09 1445	N07 E74	10 15.1	5	(B					
7789		HOLL	10 09 1755	N06 E75	10 15.4		B	CSO	210	3	10	2
7789		LEAR	10 10 0230	N08 E71	10 15.4		B	EAO	130	5	11	3
7789		SVTO	10 10 1001	N08 E63	10 15.1		A	HH	100	1	3	2
7789		RAMY	10 10 1212	N09 E65	10 15.4		B	ESO	200	13	12	4
7789	28182	MWIL	10 10 1445	N07 E62	10 15.2	5	(B)					
7789		HOLL	10 10 1745	N07 E62	10 15.4		B	ESO	260	5	12	2
7789		LEAR	10 11 0035	N08 E58	10 15.4		B	EAO	200	10	10	4
7789		RAMY	10 11 1240	N09 E52	10 15.4		B	EAO	150	10	12	3
7789		SVTO	10 11 1306	N11 E50	10 15.3		B	DKO	170	12	11	2
7789		HOLL	10 11 1434	N07 E47	10 15.1		B	ESO	200	9	11	3
7789	28182	MWIL	10 11 1745	N07 E49	10 15.4	6	(B)					
7789		LEAR	10 12 0015	N08 E45	10 15.4		B	EAO	150	11	11	3
7789		SVTO	10 12 1015	N10 E37	10 15.2		B	CSI	160	7	12	2
7789		RAMY	10 12 1309	N09 E37	10 15.3		B	EAO	120	6	11	4
7789	28182	MWIL	10 12 1445	N07 E36	10 15.3	5	(B)					
7789		LEAR	10 13 0045	N09 E31	10 15.3		B	EAO	170	11	12	3
7789		RAMY	10 13 1120	N10 E26	10 15.4		B	EAO	180	9	12	4
7789		SVTO	10 13 1123	N10 E25	10 15.3		B	ESO	110	6	12	3
7789	28182	MWIL	10 13 1500	N09 E22	10 15.3	5	(BP)					
7789		LEAR	10 14 0153	N08 E17	10 15.3		B	CAO	90	6	12	3
7789		SVTO	10 14 1010	N10 E13	10 15.4		B	CSO	130	8	12	3
7789		RAMY	10 14 1135	N09 E12	10 15.4		B	CSO	190	8	12	3
7789	28182	MWIL	10 14 1500	N09 E09	10 15.3	5	(BP)					
7789		LEAR	10 15 0230	N09 E02	10 15.2		B	CSO	90	5	12	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo	Day	(UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7789		SVTO	10	15	0930	N09	E01	10	15.5		B	CSO	130	6	12	3
7789		RAMY	10	15	1207	N10	W02	10	15.3		B	CSO	120	5	11	4
7789	28182	MWIL	10	15	1600	N09	W08	10	15.1	5	(AP)					
7789		LEAR	10	16	0040	N10	W08	10	15.4		B	CSO	150	5	11	3
7789		RAMY	10	16	1222	N10	W16	10	15.3		B	CSO	110	3	11	3
7789	28182	MWIL	10	16	1500	N09	W22	10	15.0	5	(AP)					
7789		LEAR	10	17	0005	N09	W28	10	14.9		A	HS	110	1	2	3
7789		SVTO	10	17	0920	N12	W32	10	15.0		A	HS	120	1	3	2
7789	28182	MWIL	10	17	1445	N10	W35	10	15.0	5	(AP)					
7789		LEAR	10	18	0110	N12	W40	10	15.0		A	HS	80	3	4	3
7789		SVTO	10	18	0740	N09	W41	10	15.2		B	CSO	80	6	5	2
7789	28182	MWIL	10	18	1445	N10	W48	10	15.0	5	(BP)					
7789		RAMY	10	18	1530	N08	W50	10	14.9		A	HA	60	1	2	1
7789		LEAR	10	19	0530	N11	W60	10	14.7		A	HA	100	1	2	3
7789		RAMY	10	19	1306	N08	W63	10	14.8		A	HS	120	1	2	4
7789	28182	MWIL	10	19	1445	N09	W63	10	14.9	5	(AP)					
7789		LEAR	10	20	0045	N11	W70	10	14.8		A	HA	80	1	2	3
7789		SVTO	10	20	1102	N08	W73	10	15.0		A	HS	120	1	3	1
7789	28182	MWIL	10	20	1430	N09	W76	10	14.9	6	(AP)					
7789		RAMY	10	20	1436	N08	W73	10	15.1		A	HA	100	1	2	3
7789		HOLL	10	20	2232	N10	W81	10	14.8		A	HS	60	1	2	3
7789		LEAR	10	21	0105	N09	W85	10	14.7		A	HA	120	1	3	3
7791	28185	MWIL	10	17	1445	S11	W19	10	16.2	4	(B)					
7791		LEAR	10	18	0110	S11	W26	10	16.1		A	AX	20	3	3	3
7791		SVTO	10	18	0740	S11	W27	10	16.3		B	DRO	30	6	5	2
7791	28185	MWIL	10	18	1445	S11	W33	10	16.1	5	(B)					
7791		RAMY	10	18	1530	S12	W33	10	16.1		B	CAO	20	2	5	1
7791		LEAR	10	19	0530	S11	W42	10	16.1		B	CSO	60	6	8	3
7791		RAMY	10	19	1306	S12	W45	10	16.1		B	CSO	100	4	8	4
7791	28185	MWIL	10	19	1445	S12	W48	10	16.0	5	(B)					
7791		LEAR	10	20	0045	S11	W55	10	15.9		B	CAO	100	4	6	3
7791		SVTO	10	20	1102	S13	W63	10	15.7		A	HS	40	1	2	1
7791	28185	MWIL	10	20	1430	S12	W61	10	16.0	5	(B)					
7791		RAMY	10	20	1436	S14	W63	10	15.8		A	HS	40	1	2	3
7791		HOLL	10	20	2232	S13	W71	10	15.6		A	HA	30	1	1	3
7791		LEAR	10	21	0105	S12	W68	10	15.9		B	CAI	80	7	10	3
7791		RAMY	10	21	1212	S13	W74	10	15.9		B	CSO	50	3	6	3
7791	28185	MWIL	10	21	1445	S12	W77	10	15.8	4	(B)					
7790		RAMY	10	11	1240	N12	E82	10	17.7		A	HS	60	1	2	3
7790		SVTO	10	11	1306	N13	E85	10	17.9		A	HK	80	2	4	2
7790		HOLL	10	11	1434	N10	E82	10	17.8		A	HA	60	1	1	3
7790	28183	MWIL	10	11	1745	N12	E81	10	17.8	4	AP					
7790		LEAR	10	12	0015	N10	E78	10	17.9		A	HA	180	5	3	3
7790		SVTO	10	12	1015	N13	E75	10	18.1		B	ESI	190	10	8	2
7790		RAMY	10	12	1309	N12	E75	10	18.2		B	EKO	440	8	12	4
7790	28183	MWIL	10	12	1445	N11	E74	10	18.2	5	(B					
7790		LEAR	10	13	0045	N11	E70	10	18.3		BD	EAI	610	15	16	3
7790		RAMY	10	13	1120	N13	E63	10	18.2		B	EKO	570	18	13	4
7790		SVTO	10	13	1123	N15	E62	10	18.2		B	EKO	390	14	12	3
7790	28183	MWIL	10	13	1500	N10	E60	10	18.1	4	(B)					
7790		LEAR	10	14	0153	N10	E54	10	18.1		BG	EKO	430	20	13	3
7790		SVTO	10	14	1010	N14	E51	10	18.3		B	EKI	320	21	13	3
7790		RAMY	10	14	1135	N11	E49	10	18.2		B	EAI	630	47	14	3
7790	28183	MWIL	10	14	1500	N10	E46	10	18.1	5	(B)					
7790		LEAR	10	15	0230	N09	E40	10	18.1		B	EAO	340	29	13	3
7790		SVTO	10	15	0930	N10	E37	10	18.2		B	EKC	410	43	13	3
7790		RAMY	10	15	1207	N11	E35	10	18.1		BG	EKI	520	58	15	4
7790	28183	MWIL	10	15	1600	N10	E33	10	18.1	5	(B)					
7790		LEAR	10	16	0040	N09	E28	10	18.1		B	ESO	100	24	13	3
7790		RAMY	10	16	1222	N12	E22	10	18.2		B	EKI	420	48	14	3
7790	28183	MWIL	10	16	1500	N10	E17	10	17.9	5	(BG)					
7790		LEAR	10	17	0005	N10	E15	10	18.1		B	EKI	290	28	13	3
7790		SVTO	10	17	0920	N12	E07	10	17.9		B	EAI	170	49	14	2
7790	28183	MWIL	10	17	1445	N11	E03	10	17.8	6	(BG)					
7790		LEAR	10	18	0110	N11	E01	10	18.1		B	FSI	210	21	16	3
7790		SVTO	10	18	0740	N12	W02	10	18.2		B	FAI	210	40	18	2
7790	28183	MWIL	10	18	1445	N11	W11	10	17.8	5	(BP)					

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7790		RAMY	10	18	1530	N11	W12	10	17.7		B	DAI	210	5	4	1
7790		LEAR	10	19	0530	N12	W15	10	18.1		B	FSI	160	22	16	3
7790		RAMY	10	19	1306	N11	W20	10	18.0		B	CSI	220	37	14	4
7790	28183	MWIL	10	19	1445	N10	W25	10	17.7	5	(BG)					
7790		LEAR	10	20	0045	N12	W27	10	18.0		B	FAO	140	19	16	3
7790		SVTO	10	20	1102	N09	W37	10	17.7		B	CSO	130	5	5	1
7790	28183	MWIL	10	20	1430	N11	W39	10	17.7	5	(BG)					
7790		RAMY	10	20	1436	N10	W32	10	18.2		B	CSI	210	19	17	3
7790		HOLL	10	20	2232	N11	W40	10	17.9		B	CHI	230	9	13	3
7790		LEAR	10	21	0105	N10	W40	10	18.0		B	FSI	240	18	16	3
7790		RAMY	10	21	1212	N10	W46	10	18.0		B	CAO	160	16	16	3
7790	28183	MWIL	10	21	1445	N12	W50	10	17.8	5	(BG)					
7790		HOLL	10	21	2043	N11	W49	10	18.2		B	CSO	150	11	18	2
7790		LEAR	10	22	0350	N10	W55	10	18.0		B	CAO	170	7	15	3
7790		RAMY	10	22	1204	N10	W60	10	18.0		B	EAO	210	15	15	3
7790		HOLL	10	22	1605	N13	W62	10	18.0		B	FSO	300	11	17	4
7790	28183	MWIL	10	22	1800	N12	W62	10	18.1	5	B					
7790		LEAR	10	23	0310	N11	W69	10	17.9		B	EAO	100	5	12	2
7790		SVTO	10	23	0610	N09	W68	10	18.1		B	EAO	90	6	15	3
7790		HOLL	10	23	1427	N11	W73	10	18.1		B	CSO	150	4	13	3
7790	28183	MWIL	10	23	1730	N12	W68	10	18.6	4	X					
7790		LEAR	10	24	0012	N11	W76	10	18.3		B	DAO	60	3	5	3
7791A		RAMY	10	22	1204	N05	E18	10	23.8		A	AX		1		3
7791A		HOLL	10	22	1605	N04	E17	10	23.9		A	AX		1		4
7792		LEAR	10	18	0110	S07	E79	10	24.0		B	BXO	20	4	2	3
7792		SVTO	10	18	0740	S05	E81	10	24.4		B	DAO	60	4	10	2
7792	28186	MWIL	10	18	1445	S07	E75	10	24.2	5	(B					
7792		RAMY	10	18	1530	S05	E76	10	24.3		B	DAO	90	4	5	1
7792		LEAR	10	19	0530	S08	E66	10	24.2		B	CAI	290	11	10	3
7792		RAMY	10	19	1306	S06	E64	10	24.3		B	CKO	270	19	13	4
7792	28186	MWIL	10	19	1445	S07	E62	10	24.2	5	(B)					
7792		LEAR	10	20	0045	S09	E58	10	24.4		B	EAI	260	14	12	3
7792		SVTO	10	20	1102	S08	E55	10	24.6		B	CAO	200	13	9	1
7792	28186	MWIL	10	20	1430	S09	E49	10	24.3	5	(B)					
7792		RAMY	10	20	1436	S08	E53	10	24.6		B	CAO	230	19	11	3
7792		HOLL	10	20	2232	S08	E44	10	24.2		B	CSO	130	10	5	3
7792		LEAR	10	21	0105	S08	E43	10	24.3		B	DAI	180	8	6	3
7792		RAMY	10	21	1212	S08	E40	10	24.5		B	CAO	140	12	10	3
7792	28186	MWIL	10	21	1445	S08	E34	10	24.2	5	(BP)					
7792		HOLL	10	21	2043	S08	E32	10	24.3		B	CAO	140	8	4	2
7792		LEAR	10	22	0350	S08	E28	10	24.2		B	DAO	100	7	3	3
7792		RAMY	10	22	1204	S08	E26	10	24.4		B	CAO	110	19	10	3
7792		HOLL	10	22	1605	S08	E23	10	24.4		B	CAO	120	13	5	4
7792	28186	MWIL	10	22	1800	S08	E19	10	24.2	5	X					
7792		LEAR	10	23	0310	S08	E15	10	24.2		B	CAO	60	6	3	2
7792		SVTO	10	23	0610	S09	E18	10	24.6		B	CAO	50	11	9	3
7792		HOLL	10	23	1427	S08	E09	10	24.3		B	CAO	90	11	6	3
7792	28186	MWIL	10	23	1730	S08	E06	10	24.2	5	X					
7792		LEAR	10	24	0012	S09	E04	10	24.3		B	DSO	40	12	5	3
7792		RAMY	10	24	1257	S08	W03	10	24.3		B	CAO	50	15	4	3
7792		SVTO	10	24	1432	S08	W05	10	24.2		B	CAO	40	15	4	1
7792	28186	MWIL	10	24	1800	S08	W06	10	24.3	5	(BP)					
7792		HOLL	10	24	2202	S07	W06	10	24.5		B	CSO	50	13	5	3
7792		LEAR	10	25	0031	S09	W10	10	24.3		B	DSO	30	4	3	3
7792		SVTO	10	25	0950	S09	W15	10	24.3		B	CSO	30	7	3	2
7792		RAMY	10	25	1406	S08	W17	10	24.3		A	HA	30	3	1	1
7792	28186	MWIL	10	25	1430	S08	W17	10	24.3	5	(AP)					
7792		HOLL	10	25	1930	S08	W19	10	24.4		B	CSO	30	7	4	2
7792		LEAR	10	26	0510	S08	W25	10	24.3		B	CAO	20	6	6	3
7792		SVTO	10	26	1010	S08	W27	10	24.4		B	CSO	40	6	6	2
7792		RAMY	10	26	1303	S08	W28	10	24.4		B	CRO	30	7	6	4
7792	28186	MWIL	10	26	1500	S08	W31	10	24.3	4	(B)					
7792		HOLL	10	26	1737	S10	W32	10	24.3		B	CSO	40	5	3	2
7792		LEAR	10	27	0030	S08	W36	10	24.3		B	CSO	20	3	3	2
7792		SVTO	10	27	0720	S09	W39	10	24.4		A	HS	10	1	1	2
7792		RAMY	10	27	1153	S08	W41	10	24.4		B	BXO	20	8	6	4
7792	28186	MWIL	10	27	1500	S07	W44	10	24.3	4	(B)					

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7792		HOLL	10 27 1509	S08 W44	10 24.3		A	AX	10	2	1	3
7792		LEAR	10 28 0125	S08 W50	10 24.3		A	AX	10	1	1	3
7792		RAMY	10 28 1226	S09 W55	10 24.4		B	BXO	10	2	3	5
7792	28186	MWIL	10 28 1500	S07 W58	10 24.3	3	(AP)					
7799	28192	MWIL	10 30 1500	S17 W19	10 29.2	4	(B)					
7799		RAMY	11 01 1321	S16 W49	10 28.9		A	AX		1		4
7799		HOLL	11 01 1645	S17 W51	10 28.9		A	AX	10	1		3
7799		SVTO	11 02 0845	S17 W60	10 28.9		B	BXO	20	2	2	2
7799		RAMY	11 02 1217	S16 W61	10 29.0		B	BXO	20	2	2	3
7799		RAMY	11 03 1215	S16 W78	10 28.7		A	AX		1		3
7795		LEAR	10 26 0510	S18 E47	10 29.8		B	BXO	10	2	4	3
7795		SVTO	10 26 1010	S17 E45	10 29.8		B	DRO	30	3	4	2
7795		RAMY	10 26 1303	S16 E43	10 29.8		B	BXO	20	6	5	4
7795	28189	MWIL	10 26 1500	S17 E42	10 29.8	4	(B)					
7795		HOLL	10 26 1737	S16 E42	10 29.9		B	BXO	30	3	5	2
7795		LEAR	10 27 0030	S17 E37	10 29.8		B	BXO	20	2	5	2
7795		SVTO	10 27 0720	S16 E33	10 29.8		B	BXO	30	7	6	2
7795		RAMY	10 27 1153	S16 E30	10 29.8		B	BXO	20	6	6	4
7795	28189	MWIL	10 27 1500	S17 E28	10 29.7	4	(B)					
7795		HOLL	10 27 1509	S15 E27	10 29.7		B	BXO	20	4	5	3
7795		LEAR	10 28 0125	S16 E22	10 29.7		B	BXO	10	3	6	3
7795		SVTO	10 28 0900	S16 E17	10 29.7		B	DRO	40	2	7	1
7795		RAMY	10 28 1226	S17 E17	10 29.8		B	BXO	10	3	5	5
7795		HOLL	10 28 1424	S16 E14	10 29.7		B	BXO	10	2	5	3
7795	28189	MWIL	10 28 1500	S16 E15	10 29.8	4	(B)					
7795		LEAR	10 31 0020	S18 W15	10 29.9		B	BXO	10	2	3	3
7795	28195	MWIL	11 01 1500	S15 W38	10 29.8	4	(B)					
7795		RAMY	11 02 1217	S20 W56	10 29.3		A	AX		1		3
7796	28187	MWIL	10 25 1430	S08 E65	10 30.5	4	(B)					
7796		HOLL	10 25 1930	S06 E62	10 30.4		B	BXO	20	5	3	2
7796		LEAR	10 26 0510	S07 E56	10 30.4		B	BXO	20	5	4	3
7796		SVTO	10 26 1010	S08 E53	10 30.4		B	DRO	30	5	5	2
7796		RAMY	10 26 1303	S06 E53	10 30.5		B	BXO	20	4	5	4
7796	28187	MWIL	10 26 1500	S07 E51	10 30.4	5	(B)					
7796		HOLL	10 26 1737	S06 E53	10 30.7		B	BXO	30	8	6	2
7796		LEAR	10 27 0030	S07 E45	10 30.4		B	BXO	10	5	5	2
7796		SVTO	10 27 0720	S06 E42	10 30.4		B	BXO	30	5	6	2
7796		RAMY	10 27 1153	S06 E39	10 30.4		B	BXO	30	7	5	4
7796	28187	MWIL	10 27 1500	S08 E38	10 30.5	4	(B)					
7796		HOLL	10 27 1509	S06 E38	10 30.5		B	BXO	20	4	6	3
7796		LEAR	10 28 0125	S07 E31	10 30.4		B	BXO	10	3	6	3
7796		SVTO	10 28 0900	S08 E26	10 30.3		A	HR	40	1	2	1
7796		RAMY	10 28 1226	S07 E26	10 30.5		B	BXO	30	7	6	5
7796		HOLL	10 28 1424	S06 E25	10 30.5		B	BXO	20	6	6	3
7796	28187	MWIL	10 28 1500	S08 E24	10 30.4	4	(B)					
7796		LEAR	10 29 0320	S08 E18	10 30.5		B	CRO	20	4	4	2
7796	28187	MWIL	10 29 1500	S07 E10	10 30.4	4	(B)					
7796		HOLL	10 29 1613	S07 E10	10 30.4		B	CAO	30	11	4	3
7796		LEAR	10 30 0530	S08 E02	10 30.4		B	CRO	20	8	5	3
7796		SVTO	10 30 1200	S07 W02	10 30.3		B	BXO	40	3	3	1
7796		RAMY	10 30 1305	S08 W02	10 30.4		B	BXO	10	5	4	4
7796	28187	MWIL	10 30 1500	S08 W03	10 30.4	4	(B)					
7796		SVTO	10 31 0830	S08 W13	10 30.4		B	BXO	80	3	4	1
7796		RAMY	10 31 1315	S08 W18	10 30.2		B	BXO	20	6	4	4
7796	28187	MWIL	10 31 1500	S07 W18	10 30.3	4	(AP)					
7796		HOLL	10 31 1622	S08 W18	10 30.3		B	BXO	10	4	3	2
7796		LEAR	11 01 0058	S09 W24	10 30.3		A	AX		1		3
7796	28187	MWIL	11 01 1500	S08 W32	10 30.3	4	(AP)					
7794		HOLL	10 24 2202	N16 E86	10 31.4		A	HR	30	1	1	3
7794		LEAR	10 25 0031	N14 E80	10 31.1		A	HS	100	1	1	3
7794		SVTO	10 25 0950	N17 E79	10 31.4		B	CSO	120	4	10	2
7794		RAMY	10 25 1406	N16 E78	10 31.5		B	CAO	80	3	12	1
7794	28188	MWIL	10 25 1430	N13 E76	10 31.3	4	(B)					
7794		HOLL	10 25 1930	N16 E76	10 31.6		B	EAO	210	5	11	2
7794		LEAR	10 26 0510	N14 E69	10 31.4		B	EAO	210	9	12	3

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

OCTOBER 1994

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7794		SVTO	10	26	1010	N15	E69	10	31.6		B	DSO	220	5	9	2
7794		RAMY	10	26	1303	N16	E65	10	31.5		B	EAO	210	17	12	4
7794	28188	MWIL	10	26	1500	N13	E65	10	31.5	5	(B)					
7794		HOLL	10	26	1737	N14	E65	10	31.6		B	EAO	330	14	12	2
7794		LEAR	10	27	0030	N16	E60	10	31.6		B	EAO	240	11	13	2
7794		SVTO	10	27	0720	N15	E55	10	31.5		B	DSI	250	13	10	2
7794		RAMY	10	27	1153	N16	E55	10	31.7		B	EAI	330	32	13	4
7794	28188	MWIL	10	27	1500	N13	E53	10	31.6	5	(B)					
7794		HOLL	10	27	1509	N16	E55	10	31.8		B	ESI	320	15	12	3
7794		LEAR	10	28	0125	N16	E47	10	31.6		B	EAI	180	14	11	3
7794		SVTO	10	28	0900	N14	E44	10	31.7		B	ESI	280	16	13	1
7794		RAMY	10	28	1226	N16	E41	10	31.6		B	EAI	450	38	13	5
7794		HOLL	10	28	1424	N16	E40	10	31.6		B	ESC	290	29	12	3
7794	28188	MWIL	10	28	1500	N14	E40	10	31.6	6	(B)					
7794		LEAR	10	29	0320	N14	E33	10	31.6		B	EAI	250	30	12	2
7794	28188	MWIL	10	29	1500	N14	E26	10	31.6	5	(BG)					
7794		HOLL	10	29	1613	N16	E25	10	31.6		B	EAI	360	41	12	3
7794		LEAR	10	30	0530	N12	E18	10	31.6		B	EAI	250	28	13	3
7794		SVTO	10	30	1200	N15	E15	10	31.6		B	ESO	280	20	13	1
7794		RAMY	10	30	1305	N14	E13	10	31.5		B	EAI	270	29	12	4
7794	28188	MWIL	10	30	1500	N14	E13	10	31.6	5	(B)					
7794		HOLL	10	30	2042	N16	E08	10	31.5		B	ESI	340	27	14	2
7794		LEAR	10	31	0020	N13	E06	10	31.5		B	ESO	180	18	12	3
7794		SVTO	10	31	0830	N13	E04	10	31.6		B	EHO	300	19	13	1
7794		RAMY	10	31	1315	N14	W01	10	31.5		B	EAI	210	32	12	4
7794	28188	MWIL	10	31	1500	N13	W01	10	31.5	5	(BG)					
7794		HOLL	10	31	1622	N14	W02	10	31.5		B	ESI	280	17	13	2
7794		LEAR	11	01	0058	N12	W07	10	31.5		B	ESO	210	14	12	3
7794		SVTO	11	01	0930	N13	W11	10	31.6		A	CAO	80	6	12	1
7794		RAMY	11	01	1321	N13	W12	10	31.6		B	EAI	170	40	12	4
7794	28188	MWIL	11	01	1500	N13	W13	10	31.6	5	(B)					
7794		HOLL	11	01	1645	N13	W15	10	31.6		B	ESO	240	12	12	3
7794		LEAR	11	02	0009	N13	W21	10	31.4		B	ESO	1700	14	12	3
7794		SVTO	11	02	0845	N12	W25	10	31.5		B	ESO	90	8	12	2
7794		RAMY	11	02	1217	N13	W26	10	31.6		B	ESO	190	18	12	3
7794		LEAR	11	03	0120	N13	W34	10	31.5		B	ESO	70	4	13	3
7794		SVTO	11	03	1139	N11	W38	10	31.6		B	CAO	70	6	13	1
7794		RAMY	11	03	1215	N13	W40	10	31.5		B	EAO	90	13	13	3
7794	28188	MWIL	11	03	1500	N13	W41	10	31.5	5	(BG)					
7794		LEAR	11	04	0045	N12	W47	10	31.5		B	CSO	50	7	15	3
7794		SVTO	11	04	0723	N12	W50	10	31.5		B	CAO	60	7	13	3
7794		RAMY	11	04	1247	N11	W48	10	31.9		A	AX	10	2	2	3
7794	28188	MWIL	11	04	1515	N12	W48	11	1.0	5	(AF)					
7794		LEAR	11	05	0310	N11	W57	10	31.8		A	HR	30	1	1	3
7794		SVTO	11	05	0830	N12	W63	10	31.6		A	AX	20	1	1	2
7794		RAMY	11	05	1304	N11	W62	10	31.9		A	AX	20	1	1	3
7794	28188	MWIL	11	05	1510	N11	W62	11	1.0	4	(AF)					
7794		HOLL	11	05	1600	N10	W67	10	31.6		A	AX	10	1	1	2
7794		LEAR	11	06	0045	N12	W68	10	31.9		A	HR	30	2	1	3
7794		RAMY	11	06	1316	N09	W75	10	31.9		A	AX	10	1	1	3
7794	28188	MWIL	11	06	1500	N11	W75	11	1.0	4	(AF)					
7794A	28198	MWIL	11	06	1500	N15	W78	10	31.7	3	(AP)					

Stations reporting:

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

SUDDEN IONOSPHERIC DISTURBANCES

OCTOBER 1994

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type SWF	SEA	SPA	LF-SPA	LF-SES	Flare (UT)	X-ray Class	NOAA Region
03	0802	0816	0837	1	1		1				No flare		
04	2314	2318	2332	1-	5			1		1	2304	C1.7	
05	0710	0722	0810	2	5		3	1			No flare		
05	1103	1142	1158	1	5		3			2	1136	C3.0	7784
05	1252	1311	1328	1-	1			1			1252	C1.3	
05	1346	1348	1400	1-	1					1	1347		
06	0929	0931	0940	1-	1					1	0929	B5.2	
06	1216	1227	1244	2	1		1				No flare		
06	1253	1303	1328	2	1		1				No flare		
06	1431	1440	1452	1	1		1				No flare		
06	1505	1511	1525	1	1		1				No flare		
06	1902	1913	1952	2-	5			2		10	1913	C3.2	7784
06	1948	2002	2024	1-	1			1			1957	B4.0	
07	0754	0809	0820	1	1		1				No flare		
07	0841	0848U	0925	1	1		1				0842	B2.2	
07	0938	0951	1002	1+	3		1			1	0940	B2.2	
07	1022	1033	1054	2	1		1				No flare		
07	1523	1541	1614	1	5			2		2	1520	C1.7	7784
07	1850	1854	1917	1-	5			1		5	1850	C1.9	7783
08	1050	1130U	1200	1	1		1				1140	B2.3	7788
08	1325	1350U	1400	1	1		1				No flare		
09	0712	0726U	0754	1	1		1				No flare		
09	0744	0756	0812	1-	1			1			0746	B8.5	7785
09	0924	0945	1001	1	1		1				0954	B6.6	7785
09	1225	1230	1244	1-	1					3	1225E	B4.8	7785
09	1356	1406	1436	1-	5			1		1	1357	B6.8	
09	1622	1626	1635	1-	5			3		14	1612	C7.3	7785
10	0806	0820	0901	2	1		1				No flare		
10	1032	1049	1114	1-	5		1	1			No flare		
10	1433	1434	1444	1-	1					1	1433	B9.6	7785
10	1721	1737	1737D	1-	1			1			No flare		
10	1743	1752	1812	1-	1			1			No flare		
11	0624	0630	0634	1-	5			1		1	0620	B5.3	
11	0726	0734	0805	2	1		1				No flare		
11	0900	0909	0929	1+	1					2	0859	B5.2	
12	0624	0626	0640	1-	1			1			No flare		
12	0914	0915	0928	1-	1					1	0914	B3.1	
12	1210	1214	1220	1-	1					1	1210	B2.4	
12	1447	1450	1457	1-	1					1	1450	B2.3	
13	1111	1120U	1212	1	1		1				No flare		
13	1401	1408	1432	1	1		1				No flare		
13	1503	1510	1536	2	1					1	1443	B6.4	7790
14	1122	1130	1145U	1	1					1	1120	B4.3	7790
14	1200	1210U	1230	1	1		1				1212		7790
14	1940	1944	1952U	1-	1					1	1940	B3.4	
14	2015	2016	2025	1-	1					1	2011	B9.5	
14	2344	2355	2450	1-	5	1		1		1	2343	C2.6	7790
15	0258	0334	0410D	1	1			1			0326	B5.9	
15	0410E	0416	0446	1-	1			1			0409	B8.7	
15	0919	0924	0933	1	1		2				No flare		
15	1020	1028	1104	1-	5	1	2	2		3	1013	C2.8	7790
17	0555	0620U	0705	2	1		1				No flare		
17	1542	1602	1625	1-	1			1			1531	B9.2	
17	1623	1628	1645	1-	1			1			*		

* = no flare patrol.

OCTOBER 1994

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type SWF	SEA	SPA	LF-SPA	SES	Flare (UT)	X-ray Class	NOAA Region
18	0740	0744	0802	1	1		1				No flare		
18	1030	1041	1105	1	1		1				No flare		
18	1333	1344	1356	1	1		1				No flare		
18	1846	1900	1926	1-	1			1			*		
19	0802	0810U	0838	1	1		1				No flare		
19	0844	0850	0902	1	1		1				No flare		
19	0906	0913	0930	1	1		1				No flare		
19	1127	1139	1145	1-	1			1			*		
19	1210	1218	1245	1	1		1				No flare		
19	1258	1308	1314	1	1		1				No flare		
19	1337	1339	1352	1-	1					1	1337	B4.4	
19	1352	1403	1431	1	1		1				1356		7790
19	1516	1520	1525	1-	1					1	1523	B2.3	
19	1722	1731	1817	2	1			1		3	1719	B9.4	
19	2051	2132	2506	2	5	1		3		6	*		
21	0934	0950	1029	2	1		1				No flare		
21	1126	1138	1201	2	1		1				No flare		
21	1228	1230U	1234	1	1		1				No flare		
21	1326	1328	1418	2	1		1				No flare		
22	0833	0910	0940	2	1		1				0830	B9.0	
22	0956	1015	1032	2	1		1				*		
22	1136	1142	1210	1	1		1				1110		7790
22	1231	1232	1248	1	1		1				1213	C1.3	7790
22	1302	1310	1332	1	1		1				No flare		
22	1400	1403	1415	1-	1					2	1401	B3.9	7790
23	0644	0645	0651	1-	1					1	0642	B4.2	
23	1132	1135	1148	1-	1					1	1134	C3.1	7790
23	1139	1150U	1207	1	1		1				1134	C3.1	7790
23	1221	1238	1305	2	1		1				No flare		
23	2039	2044	2057	1-	1					1	2037	B8.9	
23	2300	2307	2330	1-	5			1		1	2241	C1.8	
24	0136	0150	0204	1-	1			1			0141	C1.2	
25	0636	0644	0725	1	1		1				No flare		
25	0958	1014	1055	1-	5			1		1	1008E	C4.7	7792
25	1234	1250	1345	1-	1			1			No flare		
26	0849	0853	0913	1	1					1	0843	B3.9	
28	0834	0842	0854	1	1		1				No flare		
28	0932	0949	1013	2-	3		4				No flare		
28	1845	1847	1859	1-	1					1	1846	B5.7	7794
29	0432	0440	0517	1-	1			1			0433	C1.3	7794
29	0936	0945	0958	1	1		1				0945	B3.9	
29	1727	1730	1733	1-	1					1	1731	B2.7	
29	1812	1814	1829	1-	1					3	1812	B6.1	7794
30	0936	0952	1004	2	1		1				No flare		
30	1324	1330	1350	1	1		1				No flare		
30	1850	1851	1900	1-	1					1	1845	B3.9	7794
31	0654	0700	0721	1-	1			1			0652	B8.1	7794

* = no flare patrol.

OBSERVATORIES REPORTING FOR OCTOBER 1994

Amherst, New Hampshire, USA	SES	Madison, Wisconsin, USA	SES
Brazilian Antarctic Station	SPA	McDonough, Georgia, USA	SES
Cambridge, England, UK	SES	Nampa, Idaho, USA	SES
Cranford, New Jersey, USA	SES	Nerja, Spain	SES
Durham, New Hampshire, USA	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Fort Wayne, Indiana, USA	SES	Parma, OH, USA	SES
Gettysburg, Pennsylvania, USA	SES	Rimavska Sobota, Slovakia	SEA
Hiraiso, Japan	SWF	Rochester, New Hampshire, USA	SES
Houston, Texas, USA	SES	Tucson, Arizona, USA	SES
Hudson, Ohio, USA	SES	Upice, Czech Republic	SEA
Indianapolis, Indiana, USA	SES	Wellington, Ohio, USA	SES
Inubo, Japan	SPA	Windsor Locks, Connecticut, USA	SES
Itapetinga, Brazil	SPA	Ziar nad Hronom, Slovakia	SEA
Koniz, Switzerland	SES	Zilina, Slovakia	SEA
LaCrescenta, California, USA	SES		

Observations are not necessarily continuous.

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

OCTOBER 1994

Day	OBSERVATION Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
01	0000	0747	CULG	0231.0	0231.0	III	B	1	20	70	
			CULG	0437.0	0437.0	III	B	1	20	90	
			CULG	0456.0	0456.0	III	B	1	20	90	
			LEAR	0456.0	0456.0	III		1	30	51	
	0000	0825	HIRA	0456.2	0456.2	III	B	1	25	90	
	0609	1521	ONDR								
			LEAR	0714.0	0715.0	III		2	30	80	
			SVTO	0714.0	0715.0	III		2	35U	64U	
	0600	1200	IZMI	0714.7	0714.8	III	B	1	95	162U	
			HIRA	0714.8	0715.0	III	B	1	25	280	
			CULG	0715.0	0715.0	III	B	1	20	180	
	2035	2400	HIRA								
	2038	2400	CULG								
02	0000	0747	CULG								
	0000	0825	HIRA								
	0600	1200	IZMI								
	0611	1527	ONDR								
	2030	2400	CULG								
	2035	2400	HIRA								
03	0000	0750	CULG								
	0000	0825	HIRA								
	0612	1525	ONDR								
	0700	1500	POTS	0837.4	0838.7	III	G	1	40X	130	
			POTS	0844.8	0844.9	III	B	1	40X	50	
			POTS	0858.0	0858.1	III	B	1	110U	250	
			POTS	1003.5	1003.6	III	G	1	40X	275	
			IZMI	1006.3	1006.4	III	B	1	100	120	
			IZMI	1101.8	1101.9	III	G	1	45	130X	
			POTS	1101.8	1102.0	III	G	2	60	170	
			POTS	1141.9	1142.2	III	G	1	40X	130	
			POTS	1321.8	1322.2	III	G	1	110U	140	
			LEAR	2228.0	2228.0	III		1	40	55	
			PALE	2228.0	2228.0	III		1	25	58	
	2030	2400	CULG	2228.0	2231.0	III	G	2	18X	350	
	2035	2400	HIRA	2228.7	2228.8	III	B	2	25X	400	
			LEAR	2241.0	2241.0	III		2	30	80	
			PALE	2241.0	2242.0	III		2	25	70	
			HIRA	2241.5	2241.9	III	B	2	25	80	
			CULG	2242.0	2242.0	III	B	2	20	140	
			CULG	2310.0	2312.0	III	G	2	18X	180	
			PALE	2310.0	2312.0	III		2	25	75	
			HIRA	2310.7	2312.3	III	B	2	25	270	
			CULG	2321.0	2322.0	III	G	2	20	160	
			HIRA	2321.8	2322.2	III	B	2	25	200	
			CULG	2336.0	2346.0	III	N	2	18X	180	
			PALE	2336.0	2345.0	III		1	25	75	
			HIRA	2336.4	2345.0	III	GG	2	25X	210	
04			PALE	0007.0	0027.0	III	N	1	25	75	
	0000	0750	CULG	0007.0	0028.0	III	N	2	18	180	
	0000	0820	HIRA	0007.5	0027.6	III	GG	2	25	180	
			CULG	0050.0	0052.0	III	G	1	40	150	
			CULG	0113.0	0115.0	III	G	2	20	220	
			LEAR	0113.0	0221.0	III	N	3	30	80	
			PALE	0113.0	0150.0	III	N	2	25	75	
			HIRA	0113.3	0114.5	III	B	2	25	250	
			CULG	0121.0	0122.0	III	B	3	18X	180	
			HIRA	0121.4	0121.6	III	B	2	25	310	
			CULG	0126.0	0126.0	III	B	1	18	60	
			CULG	0149.0	0152.0	III	G	1	20	180	
			HIRA	0149.6	0151.5	III	B	1	25	180	
			LEAR	0234.0	0235.0	III		2	30	80	
			PALE	0234.0	0239.0	III		1	25	70	
			HIRA	0234.6	0235.0	III	B	2	25	270	
			CULG	0235.0	0236.0	III	G	2	18X	180	
			LEAR	0238.0	0240.0	III		3	30	80	
			HIRA	0238.7	0239.9	III	B	2	25	210	

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04			CULG	0239.0	0241.0	III	G	2	18X	180	
			CULG	0355.0	0355.0	III	B	1	18X	180	
			LEAR	0355.0	0355.0	III		1	30	60	
			HIRA	0355.3	0356.3	III	B	1	25	200	
			CULG	0503.0	0503.0	III	B	1	20	180	
	0614	1521	ONDR								
	0700	1500	POTS	0735	0915	I	S	1	130	325	
			POTS	1346.6	1347.1	III	G	1	40X	170U	
			POTS	1350.7	1350.9	III	B	1	40X	170U	
	2020	2400	CULG								
	2035	2400	HIRA								
05	0000	0820	HIRA								
	0000	0750	CULG	0330.0	0330.0	III	B	1	20	80	
			CULG	0500.0	0500.0	III	B	1	24	90	
	0600	1200	IZMI								
	0700	0750	POTS	0700 E	0750 U	I	S	1	200U	350	
			POTS	0712.5	0725.0	IV	FS	2	200U	400	
			POTS	0722.0	0722.1	III	G	2	110U	300	
	0616	1519	ONDR	1135.8	1140.5	DCIM		3	1000	2000	
			ONDR	1136.4	1138.6	DCIM		3	2300	4500	
			SGMR	1339.0	1339.0	III		1	30	40	
	2020	2400	CULG								
	2040	2400	HIRA								
06	0000	0750	CULG								
	0000	0820	HIRA	0402.4	0402.4	III	B	1	150	400	
	0600	1200	IZMI								
	0618	1516	ONDR								
	0700	1500	POTS	0716.6	0717.4	III	G	2	160	400	
			POTS	0728.0	0730.0	DCIM	G	2	170U	750	
			POTS	0820.8	0821.2	DCIM		1	300	375	
			POTS	0822	1500 U	I	S	1	200U	375	
			POTS	1038.1	1038.4	DCIM		1	650	750	
			POTS	1249.6	1249.7	III	B,U	2	200U	350	
			POTS	1451.2	1451.3	III	G	1	200U	350	
	2020	2400	CULG								
	2040	2400	HIRA								
07	0000	0820	HIRA								
			LEAR	0459.0	0459.0	III		1	30	53	
	0000	0750	CULG	0459.0	0500.0	III	B	1	18	260	
	0619	1516	ONDR								
	0700	1500	POTS	0700 E	1400	I	S	1	120	400	
			POTS	0719.2	0719.6	DCIM		1	300	400	
			POTS	0719.6	0721.6	III	B	1	110U	170U	
			POTS	0746.9	0751.0	III	G	2	40X	350	
			POTS	0812.8	0815.6	III	GG	2	110U	250	
			POTS	0843.2	0847.1	III	GG	2	40X	500	
			LEAR	0844.0	0845.0	III		1	30	80	
			SVTO	0844.0	0845.0	III		1	35	79	
	0600	1200	IZMI	0844.8	0845.1	III	G	2	90X	180U	
			POTS	0909.6	0911.8	III	G	1	110U	150	
			POTS	0927.8	0928.1	III	B	1	40X	300	
			POTS	0940.3	0942.8	III	GG	2	110U	170U	
			POTS	0947.1	0947.3	III	G	1	110U	350	
			POTS	1000.9	1001.0	III	B	1	110U	170U	
			POTS	1151.9	1152.3	DCIM		1	300	400	
			POTS	1154.4	1154.6	DCIM		1	300	500	
			POTS	1223.2	1223.7	III	G	1	110U	350	
			POTS	1226.5	1226.9	III	GG	1	110U	250	
			POTS	1321.8	1324.5	III	G	1	40X	250	
			SGMR	1541.0	1541.0	III		1	30	55	
			PALE	1849.0	1851.0	III		2	25	75	
			SGMR	1849.0	1851.0	V		2	30	80	
			PALE	2026.0	2027.0	III		1	25	41	
			LEAR	2305.0	2305.0	III		2	30	80	
			PALE	2305.0	2306.0	III		2	25	57	
	2040	2400	HIRA	2305.8	2305.9	III	B	2	25	150	

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07	2020	2400	CULG	2306.0	2306.0	III	B	2	18X	90	
08	0000	0750	CULG	0000.0	0000.0	III	B	1	18	45	
			CULG	0007.0	0009.0	III	G	1	18	55	
			LEAR	0007.0	0009.0	III		1	30	55	
	0000	0820	HIRA	0007.8	0009.3	III	G	1	25	50	
			LEAR	0111.0	0115.0	III		1	30	55	
			HIRA	0111.8	0114.3	III	G	1	25	350	
			CULG	0112.0	0114.0	III	G	1	18	160	
			CULG	0121.0	0121.0	III	B	1	18	160	
			HIRA	0121.2	0121.8	III	B	1	25	250	
			CULG	0152.0	0152.0	III	B	1	20	180	
			CULG	0411.0	0415.0	III	G	1	18	85	
			HIRA	0412.5	0412.5	III	B	1	25	210	
			HIRA	0513.1	0516.8	III	G	1	25	70	
			CULG	0514.0	0514.0	III	B	1	18	65	
			LEAR	0544.0	0544.0	III		1	30	40	
			CULG	0545.0	0545.0	III	B	1	18	70	
	0600	1200	IZMI								
	0621	1511	ONDR								
			CULG	0638.0	0638.0	III	B	1	130	180	
			CULG	0639.0	0639.0	III	B	1	100	180	
			CULG	0641.0	0641.0	III	B	2	28	520	
			CULG	0642.0	0648.0	II	FN	1	55	110	ESS 500
			CULG	0642.0	0651.0	II	SH	2	65	230	ESS 500
			SGMR	1340.0	1340.0	III		1	30	75	
	2020	2400	CULG								
	2040	2400	HIRA								
09	0000	0750	CULG	0054.0	0054.0	III	B	1	80	160	
	0000	0820	HIRA	0054.1	0054.5	III	B	1	90	280	
			LEAR	0152.0	0154.0	III		1	30	62	
			HIRA	0152.1	0152.7	III	B	1	30	250	
	0623	1510	ONDR								
	0600	1200	IZMI	0637.5	0637.7	III	G,DP	1	120X	180	
			HIRA	0637.8	0637.9	III	B	1	130	220	
			IZMI	0639.1	0639.7	III	G,RS	2	66X	180U	
			HIRA	0639.3	0639.5	III	B	1	100	450	
			LEAR	0640.0	0648.0	III		2	30	67	
			IZMI	0640.1	0640.9	III	G	2	45X	180U	
			IZMI	0640.3	0640.7	V		2	35X	180U	
			HIRA	0640.6	0641.2	III	B	2	30	2500	
			IZMI	0642.2	0648.5	II	HARM	2	40X	180	
			HIRA	0642.6	0643.1	III	B	2	80	250	
			HIRA	0642.6	0652.7	II		2	50	210	
			HIRA	0751.9	0752.1	III	B	1	90	270	
			HIRA	0754.5	0754.6	III	B	1	90	150	
			IZMI	0842.7	0843.0	III	G	1	90	145U	
			IZMI	0844.0	0844.4	III	G,RS	2	110X	180	
			IZMI	1149.7	1149.8	III	G	1	90X	180	
	2020	2400	CULG	2354.0	2354.0	III	B	1	35	160	
	2040	2400	HIRA	2354.1	2354.2	III	B	1	60	120	
10	0000	0750	CULG								
	0000	0820	HIRA								
	0600	1200	IZMI								
	0625	1508	ONDR								
	0700	0848	POTS	0700 E	0848 U	I	S,C	2	110U	350	
			LEAR	2347.0	2348.0	III		1	30	68	
	2045	2400	HIRA	2347.8	2347.9	III	B	1	30	80	
	2020	2400	CULG	2348.0	2348.0	III	B	1	30	90	
			HIRA	2355.9	2356.0	III	B	1	50	500	
11	0000	0750	CULG	0003.0	0003.0	III	B	1	35	290	
	0000	0810	HIRA	0003.6	0003.7	III	B	1	40	280	
			LEAR	0047.0	0048.0	III		1	30	68	
			LEAR	0156.0	0204.0	III		2	30	72	
			CULG	0157.0	0159.0	III	G	1	18	170	
			PALE	0157.0	0158.0	III		1	25	75	

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11			HIRA	0157.1	0158.4	III	G	1	25	270	
			CULG	0204.0	0204.0	III	B	1	18	80	
			HIRA	0204.3	0204.5	III	B	1	25	110	
			LEAR	0225.0	0225.0	III		2	30	71	
			PALE	0225.0	0225.0	III		1	35	75	
			HIRA	0225.7	0225.9	III	B	1	25	170	
			CULG	0226.0	0226.0	III	B	1	18	85	
			HIRA	0419.6	0419.6	III	B	1	80	500	
			CULG	0451.0	0451.0	III	B	1	18	130	
			LEAR	0451.0	0451.0	III		2	30	70	
			HIRA	0451.5	0451.7	III	B	1	25	130	
	0600	1200	IZMI	0614.4	0615.7	III	G	1	45X	180X	
			CULG	0615.0	0615.0	III	B	1	30	160	
			LEAR	0615.0	0615.0	III		1	45	65	
			HIRA	0615.3	0615.3	III	B	1	50	160	
			CULG	0625.0	0625.0	III	B	1	40	150	
			HIRA	0625.6	0625.8	III	B	1	50	150	
	0626	1507	ONDR								
			POTS	0700 E	1333 U	I	S,C,DC	2	110U	350	
	0700	1333	POTS	0700 E	1333 U	III	G	1	110U	350	
			POTS	0700.8	0701.2	III	G	1	40X	70	
			CULG	0701.0	0701.0	III	B	1	25	85	
			POTS	0718.5	0726.7	III	GG,RS	2	40X	375	
			IZMI	0718.8	0719.2	III	G	1	60	120	
			CULG	0719.0	0723.0	III	G	1	50	140	
			HIRA	0719.0	0719.6	III	B	1	60	250	
			HIRA	0721.8	0723.1	III	G	1	60	200	
			IZMI	0721.9	0722.2	III	G	2	60X	180	
			LEAR	0722.0	0726.0	III		2	33	80	
			SVTO	0722.0	0725.0	III		2	35	71	
			CULG	0725.0	0726.0	III	B	2	55	190	
			HIRA	0725.0	0726.8	III	B	2	30	300	
			IZMI	0725.0	0726.7	III	GG	2	45X	180X	
			IZMI	0725.1	0725.7	V		2	45	90X	
			POTS	0725.3	0725.9	V		1	40X	70	
			LEAR	0813.0	0813.0	III		2	30	75	
			IZMI	0813.3	0813.8	III	G	2	45	90X	
			POTS	0813.3	0817.8	III	G	2	40X	250	
			POTS	1159.9	1200.5	III	G,U	2	40X	250	
			SGMR	1200.0	1200.0	III		1	30	55	
			POTS	1200.1	1200.4	V		2	40X	60	
			SVTO	1412.0	1413.0	III		2	35U	61U	
			SGMR	1604.0	1605.0	III		2	30	70	
	2020	2400	CULG								
	2045	2400	HIRA								
			LEAR	2347.0	2348.0	III		1	30	68	
12	0000	0810	HIRA	0034	0810 D	I	S	1	110	250	
	0000	0750	CULG	0211.0	0734.0	I	S	1	120	160	
	0000	0750	CULG	0357.0	0357.0	III	B	1	35	160	
			CULG	0540.0	0540.0	III	B	1	75	220	
			HIRA	0540.2	0540.8	III	B	1	100	280	
	0600	1200	IZMI	0600.0E	1200.0D	I	S	2	90X	180U	
	0628	1503	ONDR								
			CULG	0636.0	0636.0	III	B	1	50	90	
			HIRA	0636.8	0636.8	III	B	1	70	110	
			CULG	0650.0	0651.0	III	G	1	50	160	
			HIRA	0650.0	0650.9	III	DP	1	50	160	
	0700	1500	POTS	0700 E	1500 U	I	S,C,DC	2	50	400	
			POTS	0715.7	0715.8	III	B	1	110U	160	
			POTS	0719.9	0720.2	III	G	1	40X	170U	
			POTS	0720.0	0720.1	V		1	45	50	
			LEAR	0729.0	0730.0	III		2	30	80	
			CULG	0730.0	0730.0	III	B	2	40	200	
			IZMI	0730.2	0731.1	III	G	2	45X	180X	
			POTS	0730.2	0731.1	III	G	2	40X	300	
			HIRA	0730.3	0730.5	III	B	2	40	200	
			LEAR	0741.0	0742.0	III		2	30	80	
			POTS	0741.9	0742.5	III	G	2	40X	400	

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12			CULG	0742.0	0742.0	III	B	2	35	230	
			HIRA	0742.0	0742.1	III	B	2	40	260	
			IZMI	0742.0	0742.4	III	G	2	45X	180X	
			SVTO	0742.0	0751.0	III		2	35	78	
			POTS	0742.1	0742.5	V		2	40X	65	
			LEAR	0750.0	0751.0	III		2	45	80	
			POTS	0750.8	0754.6	III	GG	2	40X	275	
			HIRA	0750.9	0751.1	III	B	2	30	200	
			IZMI	0750.9	0751.4	III	G	2	45X	180X	
			IZMI	0752.6	0752.9	III	G	2	45	160X	
			LEAR	0754.0	0754.0	III		1	36	55	
			IZMI	0754.1	0755.6	III	G	1	45	150U	
			POTS	0828.2	0841.3	III	GG	2	40X	400	
			LEAR	0834.0	0834.0	III		2	30	80	
			SVTO	0834.0	0834.0	III		1	56	75	
			IZMI	0834.1	0834.4	III	G	3	45X	180X	
			IZMI	0839.1	0839.6	III	G	1	55X	180	
			IZMI	0840.5	0841.2	III	G	1	45X	180X	
			LEAR	0841.0	0842.0	III		1	40	70	
			POTS	0931.7	0941.6	III	GG	1	40X	450	
			IZMI	0939.5	0940.2	III	G	1	45U	90	
			POTS	0939.8	0941.5	DCIM		1	450	800X	
			IZMI	0941.1	0941.5	III	G	2	55X	180	
			POTS	0959.7	1001.8	III	GG	3	40X	800X	
			LEAR	1000.0	1001.0	III		2	30	80	
			SVTO	1000.0	1001.0	V		3	35	85	
			IZMI	1000.1	1001.5	III	GG	3	45X	180X	
			IZMI	1000.4	1001.7	V		2	45	120X	
			POTS	1000.5	1001.4	V		2	40X	80	
			IZMI	1024.5	1030.1	III	GG	2	45X	180X	
			POTS	1025.5	1030.1	III	GG	2	40X	750	
			IZMI	1119.5	1131.1	III	S	1	90X	180U	
			IZMI	1123.9	1125.5	III	GG	1	45X	180U	
			POTS	1130.4	1138.0	III	G	1	40X	750	
			POTS	1211.2	1211.8	III	GG	1	40X	350	
			POTS	1218.5	1218.8	UNCLF		1	400	750	
			POTS	1242.1	1242.3	III	G	1	300	450	
			POTS	1348.0	1349.7	III	G	3	40X	350	
			SGMR	1348.0	1349.0	III		2	30	80	
			SVTO	1348.0	1349.0	V		3	35	85	
			POTS	1348.3	1349.2	V		3	40X	60	
			POTS	1351.7	1356.9	III	GG	2	40X	370	
			POTS	1450.9	1455.3	III	GG	3	40X	600	
			SGMR	1547.0	1548.0	V		2	30	80	
	2045	2400	HIRA	2201.0	2201.2	III	B	1	25	60	
			HIRA	2239.0	2239.2	III	B	1	30	70	
	2020	2400	CULG	2239.0	2239.0	III	B	1	30	70	
13	0000	0805	HIRA	0013	0805 D	I	S	1	130	170	
	0000	0750	CULG	0017.0	0750.0D	I	S	1	140	170	
			HIRA	0527.8	0529.0	III	G	1	70	270	
			CULG	0528.0	0530.0	III	G	1	65	170	
	0630	1501	ONDR								
			POTS	0700 E	1500 U	I	S,C,DC	2	120	350	
	0700	1500	POTS	0700 E	1500 U	III	G	1	120	350	
			POTS	0717.3	0720.5	III	GG	2	110U	300	
			CULG	0718.0	0718.0	III	B	2	60	240	
			HIRA	0718.3	0718.5	III	B	1	60	240	
	0600	1200	IZMI	0718.4	0718.8	III	G	2	60X	180	
			IZMI	0720.2	0720.4	III	G	1	65X	180	
			POTS	0810.0	0810.3	III	G	1	110U	170U	
			IZMI	0822.5	1200.0D	I	N	1	90U	180U	
			POTS	1252.2	1302.0	III	GG	2	110U	375	
	2020	2400	CULG	2210.0	2400.0D	I	S	1	120	180	
	2050	2400	HIRA	2215	2400 D	I	S	1	100	250	
14	0000	0805	HIRA	0000 E	0805 D	I	S	1	110	200	
	0000	0750	CULG	0000.0E	0230.0	I	S	1	120	180	
			LEAR	0219.0	0221.0	III		2	30	80	

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Day	OBSERVATION Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
14			HIRA	0219.9	0220.4	III	B	2	25X	500	
			CULG	0220.0	0221.0	III	B	2	18	430	
			PALE	0220.0	0221.0	III		1	25	60	
			CULG	0240.0	0445.0	I	S	1	120	180	
	0632	1500	ONDR								
	0600	1200	IZMI	0910.0	1200.0D	I	S	1	90X	180U	
			IZMI	1144.7	1144.8	III	B	2	90	135U	
			SGMR	1351.0	1351.0	III		1	30	80	
			SVTO	1351.0	1351.0	III		2	35	85	
	2050	2400	HIRA								
	2018	2400	CULG	2120.0	2400.0D	I	S	1	130	160	
			CULG	2151.0	2153.0	III	G	1	50	85	
15	0000	0748	CULG	0000.0E	0630.0	I	S	1	130	160	
			CULG	0219.0	0219.0	III	B	1	35	180	
	0000	0805	HIRA	0219.1	0219.1	III	B	1	50	280	
	0634	1508	ONDR								
	0700	1500	POTS	0700 E	1500 U	I	S,C,DC	2	110U	350	
	0600	1200	IZMI	0801.0	1200.0D	I	N	1	90U	180U	
			POTS	1332.2	1336.5	III	G	1	150	450	
			POTS	1445.3	1446.5	DCIM	RS	1	200U	400	
	2018	2400	CULG								
	2050	2400	HIRA								
16	0000	0748	CULG								
	0000	0800	HIRA								
	0636	1453	ONDR								
			POTS	0700 E	1500 U	I	S,C,DC	2	110U	450	
	0700	1500	POTS	0700 E	1500 U	III	G	1	110U	450	
			POTS	0705.8	0706.7	III	G	1	110U	170U	
			POTS	0735.2	0735.7	DCIM		1	250	450	
	0600	1200	IZMI	0800.0	1200.0D	I	S	1	90U	180U	
			POTS	1017.5	1018.9	III	G	2	40X	400	
			IZMI	1018.8	1018.9	III	B	2	90	150	
			POTS	1057.9	1101.2	III	G	2	40X	170U	
			POTS	1447.5	1449.1	III	G	2	40X	170U	
	2048	2400	CULG	2018.0E	2234.0	I	S	1	120	280	
	2050	2400	HIRA	2050 E	2400 D	I	S	1	120	280	
			CULG	2247.0	2324.0	I	S	1	125	170	
			LEAR	2344.0	2345.0	III		1	44	53	
17	0000	0800	HIRA	0000 E	0506	I	S	1	140	280	
	0000	0748	CULG	0016.0	0241.0	I	S	1	140	230	
			HIRA	0142.8	0142.8	III	B	1	25	100	
			CULG	0143.0	0143.0	III	B	1	20	140	
			CULG	0446.0	0505.0	I	S	1	160	280	
	0600	1200	IZMI	0614.0	0614.2	III	B	1	45	90X	
	0637	1452	ONDR								
			POTS	0700 E	1500 U	I	S,C,DC	2	110U	350	
	0700	1500	POTS	0700 E	1500 U	III	G	1	110U	350	
			POTS	0752.2	0805.0	III	GG	1	40X	170U	
			POTS	0849.7	0851.8	III	GG	2	40X	350	
			IZMI	0849.8	0850.0	CONT		1	60U	90	
			IZMI	0851.5	0851.7	III	G	1	45U	90U	
			IZMI	0905.0U	1200.0D	I	N	1	90U	180U	
			POTS	0910.9	0912.1	III	G	1	40X	170U	
			POTS	1042.6	1043.1	III	B,HARM	2	40X	275	
			IZMI	1042.7	1042.8	III	G	2	55	165	
			POTS	1042.8	1043.0	V		1	40X	60	
			IZMI	1057.5	1058.2	III	GG	1	90	162U	
			POTS	1107.1	1108.7	III	GG,RS	2	40X	170U	
			IZMI	1107.4	1108.0	III	G	1	90	110	
			POTS	1143.3	1143.8	III	G	1	40X	275	
			POTS	1328.0	1333.1	III	GG	2	40X	250	
			POTS	1345.1	1403.3	III	GG	3	40X	500	
			SGMR	1402.0	1403.0	III		1	30	80	
			SVTO	1402.0	1402.0	III		2	35	76	
			POTS	1416.5	1425.0	III	GG	3	40X	800X	
			SGMR	1420.0	1423.0	V		2	30	80	

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Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	EVENT Spectral Class	EVENT Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
17			SVTO	1420.0	1421.0	V		3	35	85	
			POTS	1420.8	1422.5	V		3	40X	85	
			POTS	1435.4	1436.0	III	G	2	40X	350	
			POTS	1451.8	1453.0	III	G	2	40X	400	
			SGMR	1624.0	1625.0	III		1	30	70	
			SGMR	1649.0	1650.0	III		1	30	75	
	2018	2400	CULG								
	2050	2400	HIRA								
18			PALE	0043.0	0043.0	III		1	25	60	
	0000	0748	CULG	0043.0	0043.0	III	B	2	18	160	
	0000	0800	HIRA	0043.2	0043.6	III	B	2	25X	160	
			CULG	0417.0	0417.0	III	B	1	80	440	
			HIRA	0417.3	0417.9	III	B	1	90	320	
			POTS	0700 E	1500 U	III	G	1	110U	400	
	0700	1500	POTS	0700 E	1500 U	I	S,C,DC	3	110U	400	
	0639	1450	ONDR	0715.0	1403.0	I	N	3	100	450	
			POTS	0722.1	0722.4	III	B	2	110U	170U	
	0600	1200	IZMI	0722.3	0722.6	III	G	1	80	165	
			IZMI	0723.0	1200.0D	I	S	1	90U	180U	
			POTS	0753.1	0753.3	III	B	2	110U	170U	
			IZMI	0753.2	0753.3	III	B	2	80	175	
			LEAR	0837.0	0837.0	III		1	45	80	
			SVTO	0837.0	0837.0	III		2	62	85	
			POTS	0837.1	0837.5	III	B	2	40X	170U	
			IZMI	0837.2	0837.4	III	B	2	45	160X	
			POTS	0945.9	0946.3	III	B,U	2	40X	170U	
			IZMI	0946.0	0946.2	III	G,RS	2	45	165X	
			SVTO	1009.0	1010.0	III		2	35	85	
			POTS	1017.5	1017.7	III	B	1	40X	65	
			POTS	1105.7	1106.6	III	G	2	40X	400	
			IZMI	1105.8	1106.5	III	G	2	45	150X	
			POTS	1116.0	1116.5	III	G	2	40X	90U	
			POTS	1135.9	1136.1	III	B	1	60	90U	
			POTS	1225.9	1231.5	III	GG	2	110U	450	
			ONDR	1228.9	1231.2	III	GG	3	100	450	
			SVTO	1412.0	1413.0	V		3	36U	81U	
			POTS	1429.3	1429.8	III	G	1	40X	60	
			POTS	1446.3	1447.0	III	G	2	200U	350	
			POTS	1456.1	1456.3	III	B	1	40X	60	
			SGMR	1617.0	1618.0	III		1	30	55	
	2018	2400	CULG	2018.0E	2234.0D	I	S	1	80	170	
	2050	2400	HIRA	2050 E	2400 D	I	S	2	80	200	
			CULG	2114.0	2114.0	III	B	1	18	45	
			CULG	2256.0E	2334.0D	I	S	2	70	170	
			CULG	2256.0E	2400.0D	I	S	1	70	170	
19	0000	0800	HIRA	0000 E	0800 D	I	S	1	70	170	
	0000	0748	CULG	0000.0E	0411.0	I	S	1	70	170	
			CULG	0010.0	0012.0	III	G	1	18	140	
			LEAR	0010.0	0012.0	III		1	30	75	
			HIRA	0010.6	0012.1	III	G	1	25	150	
			CULG	0504.0	0748.0D	I	S	1	100	150	
	0600	1200	IZMI	0600.0E	1200.0D	I	S	2	45X	180U	
			CULG	0623.0	0623.0	III	B	1	60	90	
			IZMI	0626.6	0626.7	III	B	1	85U	180	
			CULG	0636.0	0639.0	III	G	1	50	80	
			IZMI	0637.1	0640.1	III	GG	1	45	90U	
			IZMI	0655.8	0655.9	III	B	1	45	90X	
			CULG	0656.0	0656.0	III	B	1	55	85	
			POTS	0700 E	1500 U	I	S,C,DC	2	70	400	
	0700	1500	POTS	0700 E	1500 U	III	G	1	70	400	
			IZMI	0730.0	1200.0D	III	N	1	45U	90U	
	0641	1447	ONDR	0825.0	1000.0	I	N	3	100	350	
			POTS	1424.5	1424.7	UNCLF		1	40X	70	
			PALE	2056.0	2059.0	III		2	25	75	
			SGMR	2056.0	2058.0	III		2	30	80	
			CULG	2057.0	2105.0	II	FN	3	18	50	ESS 750
	2018	2400	CULG	2057.0	2111.0	II	SH	3	18	95	ESS 750

SOLAR RADIO EMISSION
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Day	OBSERVATION Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
19	2050	2400	HIRA	2057.0	2115.0	II		3	25X	100	
			CULG	2100.0	2117.0	II	SH	2	25	80	ESS 550
			PALE	2100.0	0220.0	IV		3	25	75	
			PALE	2100.0	2108.0	II		3	25U	42U	ESS 1000
			HIRA	2106.0	2400.0D	IV		2	25	270	
			CULG	2107.0	2300.0D	IV	FS	2	18	180	
			LEAR	2159.0	0000.0	IV		1	40	80	
			CULG	2300.0E	2400.0D	IV	FS	2	25	120	
			CULG	2318.0	2318.0	III	B	1	85	180	
20	0000	0748	CULG	0000.0E	0047.0D	IV		2	25	120	
	0000	0800	HIRA	0000.0E	0235.0	IV		2	25	150	
			CULG	0019.0	0019.0	III	B	1	18	85	
			CULG	0024.0	0220.0	I	S	1	60	85	
			CULG	0047.0E	0238.0	IV		1	30	90	
	0643	1443	ONDR								
	0700	1500	POTS	0700 E	1500 U	I	S	2	110U	350	
			POTS	0706.2	0706.3	DCIM		1	200U	375	
			SVTO	0814.0	0814.0	III		2	35U	76U	
			POTS	1228.0	1238.6	III	GG	3	40X	350	
			SGMR	1237.0	1237.0	III		1	30	80	
			SVTO	1237.0	1237.0	III		2	35	85	
			POTS	1248.0	1253.8	III	GG	2	40X	350	
			POTS	1343.1	1348.1	III	G	1	40X	400	
	2018	2400	CULG								
	2055	2400	HIRA								
			LEAR	2159.0	0650.0	IV		3	30	80	
21	0000	0747	CULG								
	0000	0800	HIRA	0204.8	0204.9	III	B	1	25	190	
			HIRA	0217.2	0217.5	III	B	1	25	220	
	0645	1443	ONDR								
	0700	1500	POTS	0700 E	1500 U	I	S	1	120	400	
			POTS	0704.4	0706.3	III	G,U	2	110U	170U	
	0600	1200	IZMI	0706.1	0706.2	III	G	2	90	165U	
			POTS	0933.3	0933.4	III	RS	1	110U	150	
			POTS	1220.5	1220.8	III	RS	2	110U	325	
			POTS	1245.5	1245.6	UNCLF		1	120	325	
	2018	2400	CULG								
	2055	2400	HIRA								
22	0000	0748	CULG								
	0000	0755	HIRA								
	0700	1200	IZMI								
	0700	1500	POTS	0700 E	1500 U	I	S	1	120	400	
			POTS	0938.4	0938.5	III	B	1	40X	60	
			POTS	1210.3	1210.4	III	B	1	40X	140	
			POTS	1220.9	1221.2	UNCLF		1	110U	135	
			POTS	1237.4	1237.8	DCIM		1	325	500	
			POTS	1319.1	1319.5	DCIM		2	400	550	
			POTS	1319.1	1319.5	III	G	2	125	550	
	0647	1442	ONDR	1319.2	1319.6	III	G	3	200	600	
			POTS	1418.5	1420.0	III	G	1	120	375	
	2017	2400	CULG								
	2055	2400	HIRA								
23	0000	0747	CULG								
	0000	0755	HIRA								
	0700	1500	POTS	0700 E	1500 U	I	S	1	120	375	
			POTS	0802.6	0804.1	III	GG,RS	2	40X	375	
	0649	1437	ONDR	0803.0	0803.7	III	GG	3	100	300	
	0700	1200	IZMI	0803.3	0804.1	III	GG	2	45X	180X	
			POTS	0953.6	0953.8	III	G	1	110U	170U	
			POTS	1028.7	1029.1	III	G	1	110U	170U	
			ONDR	1204.1	1204.6	III	G	3	150	350	
			POTS	1204.1	1205.1	III	G,RS	3	80	400	
	2017	2400	CULG	2058.0	2300.0	III	G	1	57X	130	
	2055	2400	HIRA	2258.7	2300.0	III	G	1	60	150	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
24	0000	0755	HIRA	0324.8	0325.0	III	B	1	170	400	
			CULG	0326.0	0330.0	V	B	1	57X	180	
			LEAR	0326.0	0336.0	II		1	35	80	ESS 4000
	0000	0747	CULG	0326.0	0327.0	III	G	3	57X	340	
			HIRA	0326.3	0326.6	III	B	2	50	400	
			HIRA	0326.4	0330.4	V		1	60	180	
			CULG	0330.0	0330.0	III	B	2	135	180	
			CULG	0422.0	0422.0	III	B	1	57X	90	
			HIRA	0422.8	0422.9	III	B	1	60	110	
			CULG	0435.0	0435.0	III	B	1	57X	90	
			HIRA	0435.1	0535.1	III	B	1	60	110	
			HIRA	0447.3	0447.3	III	B	1	100	150	
			CULG	0449.0	0449.0	III	B	1	110	160	
			HIRA	0449.0	0449.0	III	B	1	110	180	
	0651	1436	ONDR								
	0700	1500	POTS	0722.8	0731.1	III	G,RS	2	40X	400	
			POTS	0804.8	0805.1	III	G	2	40X	170U	
	0700	1200	IZMI	0804.9	0805.0	III	B	1	60X	90	
			POTS	0835.8	0836.4	DCIM		1	300	550	
			POTS	0843.9	0850.0	III	GG	3	40X	350	
			LEAR	0847.0	0847.0	III		2	30	80	
			SVTO	0847.0	0847.0	III		2	35	85	
			POTS	0847.1	0847.3	DCIM		3	400	600	
			IZMI	0847.3	0849.0	III	GG	2	45X	90X	
			POTS	0900	1500 U	I	S	1	120	170U	
			POTS	0909.8	0912.2	III	G,RS,U	3	40X	400	
			LEAR	0910.0	0911.0	III		1	65	80	
			IZMI	0910.8	0911.4	III	G	2	45X	90X	
			SVTO	0911.0	0911.0	III		1	62	71	
			IZMI	0911.1	0911.4	CONT		1	55	75	
			POTS	0911.2	0911.5	V		2	45	70	
			POTS	0959.7	1000.2	III	G	1	40X	300	
			IZMI	1000.1	1000.2	III	B	1	100	170	
			POTS	1037.2	1039.3	III	GG	2	40X	300	
			IZMI	1038.9	1039.1	III	G	3	45X	180X	
			POTS	1056.3	1056.4	III	G	1	110U	170U	
			POTS	1112.1	1112.9	DCIM		1	300	700	
			POTS	1207.4	1207.6	DCIM		1	325	400	
			POTS	1228.4	1229.2	III	G	2	40X	250	
			POTS	1255.0	1257.2	III	GG	3	40X	350	
			SGMR	1255.0	1256.0	III		1	30U	60U	
			SVTO	1255.0	1256.0	III		2	35	85	
			POTS	1327.2	1327.7	III	G	1	110U	170U	
			POTS	1420.1	1420.3	UNCLF		1	120	160	
			SGMR	1505.0	1513.0	V		3	30	80	
			SVTO	1506.0	1513.0	III		3	35	74	
			SGMR	1537.0	1537.0	III		1	30	55	
			PALE	1859.0	1900.0	III		1	25	55	
			SGMR	1859.0	1859.0	III		1	30	50	
			PALE	1944.0	1944.0	III		1	25	55	
			SGMR	1944.0	1944.0	III		1	30	45	
	2100	2400	HIRA								
	2017	2400	CULG	2214.0	2225.0	I	S	1	110	150	
25			LEAR	0137.0	0137.0	III		1	30	61	
	0000	0747	CULG	0137.0	0139.0	III	B	1	18	90	
			CULG	0440.0	0440.0	III	B	3	18	250	
			LEAR	0440.0	0441.0	III		3	30	80	
	0000	0750	HIRA	0440.8	0440.9	III	B	2	25X	250	
			LEAR	0625.0	0627.0	III		3	30	62	
			CULG	0626.0	0626.0	III	B	3	18	180	
			SVTO	0626.0	0627.0	III		2	35	85	
			HIRA	0626.7	0626.9	III	B	2	25X	200	
			CULG	0638.0	0638.0	III	B	1	115	170	
			HIRA	0638.4	0638.5	III	B	1	120	170	
	0700	1500	POTS	0700 E	1500 U	I	S	2	110U	400	
			POTS	0718.2	0718.6	UNCLF		1	125	150	
			POTS	0720.3	0727.8	III	G	1	40X	170U	
			HIRA	0738.0	0738.1	III	B	1	25	500	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
25			LEAR	0738.0	0739.0	III		2	30	80	
			CULG	0739.0	0739.0	III	B	1	18	140	
			POTS	0739.0	0754.3	III	GG	2	40X	170U	
			SVTO	0739.0	0739.0	III		2	35	73	
	0700	1200	IZMI	0739.1	0739.3	III	G	2	45	120X	
			POTS	0804.4	0808.8	III	GG	3	40X	300	
			LEAR	0805.0	0807.0	III		3	30	80	
			SVTO	0805.0	0807.0	III		2	36	84	
			IZMI	0805.5	0807.0	III	GG	2	45X	180X	
			POTS	0818.4	0820.0	III	GG	2	40X	170U	
			POTS	0832.4	0837.3	III	G	2	40X	170U	
			LEAR	0836.0	0837.0	III		2	30	80	
			IZMI	0836.9	0837.1	III	G	1	45	135X	
			SVTO	0837.0	0837.0	III		2	35	47	
			POTS	0912.0	0913.7	III	GG	2	40X	170U	
			IZMI	0913.0	0913.6	III	G	2	45X	180X	
			POTS	0941.9	0943.0	III	G	2	40X	300	
			IZMI	0942.0	0942.3	III	G	2	45X	135X	
			POTS	0958 U	1150 U	III	GG	3	40X	800X	
			POTS	0958.8	1002 U	II	FN,H	3	40X	50	
			POTS	0958.8	1150 U	IV	RS,FS	2	40X	800X	
			IZMI	0959.0	1007.0	II		3	45U	90X	
			LEAR	0959.0	1013.0	II		2	30	80	ESS 1600
			SVTO	0959.0	1019.0	II		3	35	85	ESS 3000
			POTS	0959.8	1008.4U	II	SH,H	3	40X	80U	
			IZMI	1000.1	1014.5	III	N, RS	2	90U	180U	
			IZMI	1004.0	1012.0	CONT		1	45X	180U	
	0653	1434	ONDR	1006.5	1010.8	DCIM		3	1000	2000	
			ONDR	1008.1	1014.6	DCIM		2	2300	3500	
			POTS	1010.4	1013.5U	II	SH,H	3	40X	60	
			IZMI	1049.1	1050.0	III	G	2	90	135	
			POTS	1049.5	1053.3	III	GG	2	40X	170U	
			IZMI	1052.7	1053.2	III	G	2	90X	180U	
			POTS	1140.0	1145.5	III	GG,U,RS	3	40X	375	
			SGMR	1140.0	1145.0	V		2	30	75	
			SVTO	1140.0	1145.0	III		3	35	85	
			IZMI	1140.2	1141.2	III	GG	3	45X	180X	
			POTS	1140.3	1140.7	V		3	40X	65	
			POTS	1140.8	1141.3	V		3	40X	70	
			IZMI	1144.2	1145.0	III	GG	2	45X	180X	
			SGMR	1231.0	1232.0	III		1	30	50	
			SVTO	1231.0	1233.0	III		2	35	70	
			POTS	1231.2	1232.7	III	G,RS,U	3	40X	375	
			POTS	1247.7	1248.1	III	B	1	40X	170U	
			POTS	1322.3	1323.1	III	G	1	110U	170U	
			POTS	1327.0	1335.5	III	GG,RS,U	3	40X	500	
			SGMR	1327.0	1335.0	V		2	30	80	
			SVTO	1327.0	1335.0	III		3	35	85	
			POTS	1327.2	1327.5	V		3	40X	60	
			POTS	1331.8	1332.2	V		3	40X	65	
			POTS	1348.3	1348.6	III	G	1	40X	140	
			POTS	1422.3	1429.3	III	G	2	40X	170U	
			POTS	1445.9	1455.3	III	GG	2	40X	400	
			SGMR	1453.0	1506.0	III	N	2	30	75	
			SVTO	1454.0	1455.0	III		2	36	70	
			SGMR	1544.0	1551.0	V		1	30	55	
	2017	2400	CULG	2048.0	2122.0	I	S	1	120	170	
	2130	2400	HIRA	2130 E	2400 D	I	S	1	120	200	
			CULG	2323.0	2354.0	I	S	1	120	170	
26	0000	0750	HIRA	0000 E	0600	I	S	1	120	200	
	0000	0747	CULG	0012.0	0012.0	III	B	1	18	150	
			CULG	0137.0	0137.0	III	B	1	30	90	
			LEAR	0137.0	0138.0	III		2	30	63	
			HIRA	0137.7	0138.0	III	B	1	30	80	
			CULG	0138.0	0251.0	I	S	1	120	170	
			CULG	0257.0	0257.0	III	B	1	18	250	
			LEAR	0257.0	0257.0	III		1	30	55	
			HIRA	0257.4	0257.6	III	B	1	50	300	

SOLAR RADIO EMISSION
Spectral Observations

OCTOBER 1994

Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	EVENT Spectral Class	EVENT Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
26			CULG	0305.0	0320.0	I	S	1	120	170	
			CULG	0517.0	0517.0	III	B	1	18	40	
			CULG	0625.0	0625.0	III	B	1	30	420	
			HIRA	0625.5	0625.6	III	B	1	40	280	
	0655	1430	ONDR								
			POTS	0700 E	1500 U	I	S,C,DC	2	110U	400	
	0700	1200	IZMI								
	0700	1500	POTS	0700 E	1500 U	III	G	1	110U	400	
			POTS	0840.6	0840.7	III	B	2	135	170	
			POTS	1057.1	1058.7	III	G	2	140	300	
			SGMR	1208.0	1209.0	III		1	30	70	
			SVTO	1208.0	1209.0	III		2	36	77	
			POTS	1208.1	1211.6	III	G	3	40X	170U	
			POTS	1223.3	1223.5	III	B	2	40X	120	
	2017	2400	CULG	2243.0	2243.0	III	B	1	18	75	
	2100	2400	HIRA	2243.9	2244.0	III	B	1	25	70	
27	0000	0747	CULG	0016.0	0159.0	I	S	1	120	160	
			HIRA	0033	0750 D	I	S	1	110	200	
			CULG	0041.0	0041.0	III	B	1	18	90	
			LEAR	0041.0	0041.0	III		2	30	65	
	0000	0750	HIRA	0041.5	0041.6	III	B	1	25	90	
			CULG	0230.0	0620.0	I	S	1	120	180	
			LEAR	0615.0	0908.0	III	N	1	45	80	
			CULG	0620.0	0715.0	I	S	1	65	180	
	0657	1429	ONDR								
			SVTO	0657.0	0926.0	III	N	1	55	85	
	0700	1500	POTS	0700 E	1500 U	I	S,C,DC	2	40X	400	
	0700	1200	IZMI	0700.0E	1200.0D	I	S	1	45X	180X	
			CULG	0715.0	0747.0D	I	S	2	45	160	
			POTS	0749.1	0801.0	III	GG	2	40X	60	
			POTS	0941.9	0942.3	III	G	2	40X	160	
	2017	2400	CULG								
	2100	2400	HIRA								
			LEAR	2227.0	2228.0	III		1	30	55	
28	0000	0745	HIRA								
	0000	0747	CULG	0526.0	0556.0	I	S	1	100	160	
	0659	1428	ONDR								
	0700	1500	POTS	0700 E	1500 U	I	S,C,DC	2	110U	400	
	0700	1200	IZMI	0700.0E	1200.0D	I	S	1	90X	180U	
	2100	2400	HIRA	2129	2340	I	S	2	100	200	
	2017	2400	CULG	2129.0	2148.0D	I	S	1	130	160	
			CULG	2148.0E	2235.0D	I	S	2	100	170	
			CULG	2235.0E	2341.0	I	S	1	130	160	
29	0000	0805	CULG	0022.0	0033.0	I	S	1	125	160	
			CULG	0332.0	0332.0	III	B	1	18	90	
	0000	0745	HIRA	0332.5	0332.7	III	B	1	25	100	
			HIRA	0346.8	0630	I	S	1	120	180	
			CULG	0405.0	0614.0	I	S	1	130	170	
	0700	1200	IZMI	0700.0E	1200.0D	I	N	1	90X	180U	
	0701	1426	ONDR								
			SVTO	0952.0	0952.0	III		2	35	71	
			IZMI	0952.2	0952.3	III	B	2	45	135X	
			IZMI	1052.0	1052.1	III	B	2	120X	180	
			SVTO	1053.0	1054.0	III		2	35	85	
			IZMI	1053.4	1054.1	III	GG	2	45X	180X	
	2017	2400	CULG								
	2100	2400	HIRA								
30	0000	0745	HIRA	0003.1	0003.2	III	B	1	25	50	
	0000	0805	CULG	0124.0	0127.0	III	G	1	70	160	
			CULG	0625.0	0625.0	III	B	1	18X	95	
			LEAR	0625.0	0625.0	III		1	30	58	
			HIRA	0625.3	0625.4	III	B	1	25	100	
	0703	1422	ONDR								
	0700	1200	IZMI	0826.5	1200.0D	I	N	1	90X	180U	
			SVTO	1101.0	1103.0	III		2	35	49	

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

OCTOBER 1994

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
30			SVTO	1229.0	1234.0	III		2	38	71	
	2016	2400	CULG	2041.0	2114.0	III	N	1	20	100	
			CULG	2057.0	2126.0	I	S	2	60	100	
	2110	2400	HIRA								
			CULG	2321.0	2321.0	III	B	1	18	80	
31	0000	0745	CULG	0051.0	0051.0	III	B	1	18	100	
	0000	0600	HIRA	0052.0	0052.2	III	B	1	25	100	
			HIRA	0110	0248	I	S	2	50	160	
			CULG	0112.0	0245.0	I	S	2	40	160	
			LEAR	0126.0	0252.0	III	N	1	30	80	
			PALE	0140.0	0252.0	III	N	1	25	75	
			HIRA	0305	0600 D	I	S	1	50	160	
			CULG	0307.0	0705.0	I	S	1	50	160	
			HIRA	0309	0600	III	GG	1	30	140	
			CULG	0309.0	0600.0	III	N	1	30	140	
			LEAR	0515.0	0535.0	III	N	1	55	80	
	0700	1500	POTS	0700 E	1500 U	I	S,C,DC	2	40X	400	
	0700	1200	IZMI	0700.0E	1200.0D	I	N	1	90X	180U	
	0705	1421	ONDR								
			POTS	0713.8	0713.9	III	G	2	200U	325	
			POTS	0751.6	0751.7	III	B	1	40X	70	
			POTS	0812.4	0812.5	III	B	2	40X	70	
			POTS	0956.3	0956.4	III	B	2	40X	70	
			POTS	1046.0	1046.1	III	B	2	40X	90U	
			POTS	1209.4	1209.5	III	B	2	40X	70	
			POTS	1242.4	1323.3	III	GG	3	40X	300	
			SGMR	1312.0	1314.0	III		1	30	55	
			SVTO	1312.0	1313.0	III		1	35	43	
			POTS	1334.5	1337.6	III	G	2	40X	90U	
			POTS	1350.6	1404.5	III	G	2	40X	90U	
			POTS	1426.3	1428.5	III	G	2	40X	70	
	2100	2400	HIRA								
	2016	2400	CULG	2250.0	2303.0	III	N	1	20	75	

Event Remarks:

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

Frequency qualifiers:

X = Extends beyond instrument range
U = Uncertain frequency

Remarks:

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

Stations Reporting: CULG = Culgoora HIRA = Hiraiso IZMI = Izmiran LEAR = Learmonth
ONDR = Ondrejov PALE = Palehua POTS = Potsdam SGMR = Sagamore Hill SVTO = San Vito

NOTE:

Until recently, most radiospectrographs spanned only a narrow range of wavelengths. Most radio bursts would exceed this range and so only the broad wavelength range into which they fell could be stated with certainty. Several new radiospectrographs (e.g. Culgoora) cover wide wavelength ranges. This makes it feasible and desirable to record the actual wavelength (or frequency) of each burst. The high resolution of some new instruments also makes it possible to report more detailed information about radio bursts. This might prove particularly useful for bursts associated with terrestrial disturbances (e.g. Type II bursts). For these reasons, a new format for archiving radiospectrograph observations was developed. The new format began with spectral data for July, 1994.

SOLAR RADIO NOISE STORM AT 164 MHZ FROM NANCAY RADIOHELIOGRAPH

October 1994

DAY	HELIOGRAPHIC POSITIONS MEAN VALUES* E-W	S-N	IMP**	OBSERVING TIME*** START (UT)	END (UT)
08/10/94	-1.25	+0.49	1	0753E	1224D
10/10/94	-0.98	+0.31	1	0750E	1550D
11/10/94	-1.39	+0.09	1	0800E	1547D
12/10/94	-1.09	+0.25	3	0752E	1548D
13/10/94	-0.91	+0.13	2	0751E	1547D
14/10/94	-0.60	+0.06	2	0751E	1547D
15/10/94	-0.96	+0.21	1	0743E	1548D
15/10/94	-0.40	-0.11	1	0743E	1548D
16/10/94	-0.27	-0.07	2	0747E	1547D
17/10/94	-0.35	+0.12	1	0820E	1548D
17/10/94	+0.36	+0.00	2	1052	1548D
18/10/94	+0.65	+0.04	4	0751E	1547D
18/10/94	+0.53	+0.07	1	1230E	1547D
19/10/94	+0.86	+0.06	2	0841E	1548D
20/10/94	+0.41	+0.27	1	0750E	1000
20/10/94	+0.41	+0.27	1	1145	1518D
25/10/94	+0.33	-0.25	1	1000	1230
25/10/94	-1.08	-0.42	1	1330	1550D
26/10/94	-1.20	+0.21	1	0750E	1550D
27/10/94	-0.86	+0.02	1	0750E	1550D
27/10/94	-1.12	+0.17	1	0750E	1550D
28/10/94	-0.92	+0.15	2	0750E	1547D
29/10/94	-0.71	+0.29	2	0750E	1550D
29/10/94	-0.45	+0.38	2	0750E	1030
30/10/94	-0.23	+0.12	2	0750E	1549D
30/10/94	-0.07	+0.24	1	0750E	1550D

9, 21 NO DATA
OHER DAYS : NO DETECTABLE NOISE STORMS

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

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

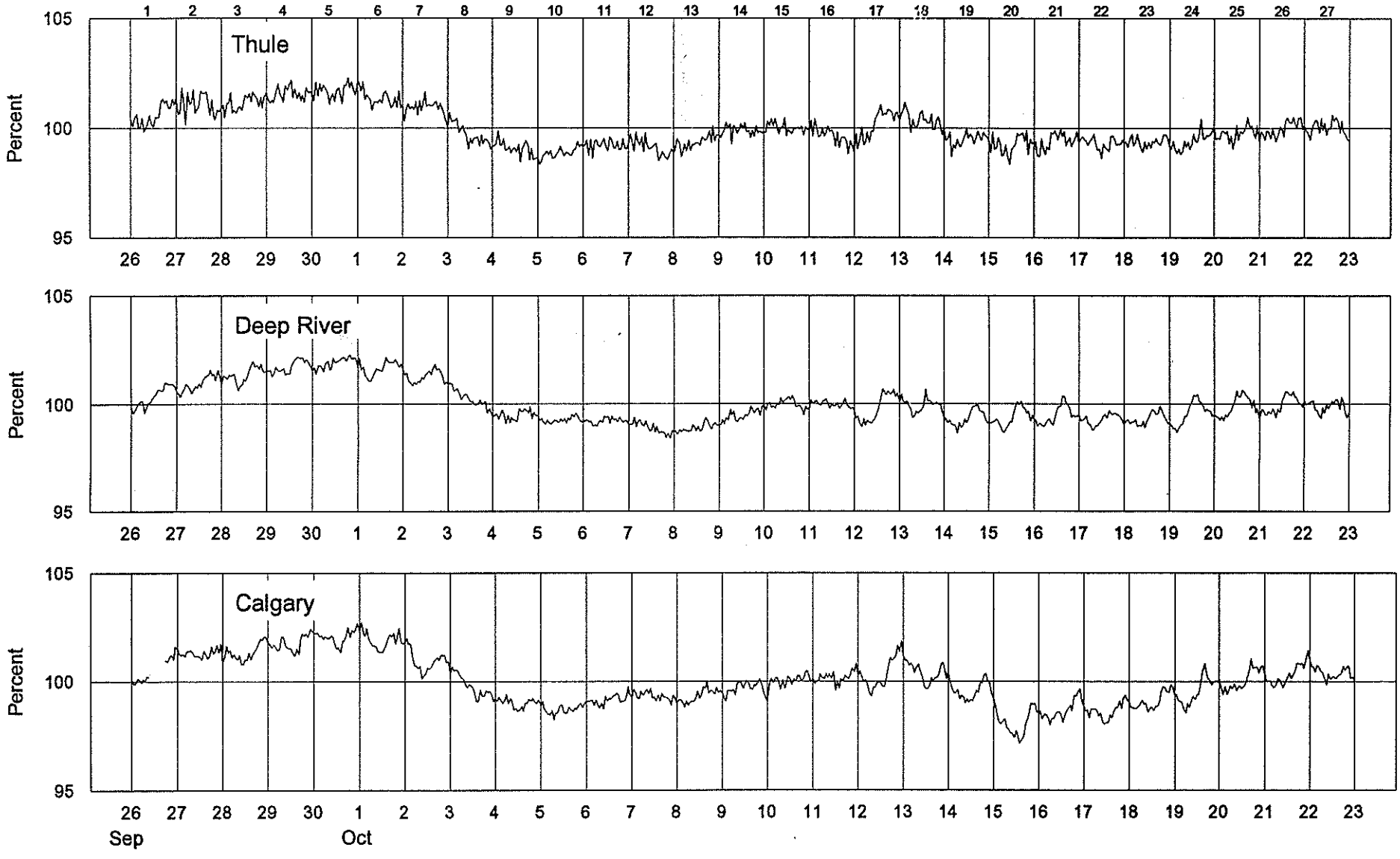
*** E NOISE STORM IN PROGRESS AT THE BEGINNING OF THE NANCAY OBSERVATIONS
D NOISE STORM IN PROGRESS AT THE END OF THE NANCAY OBSERVATIONS

COSMIC RAY INDICES
(Neutron Monitor)
OCTOBER 1994

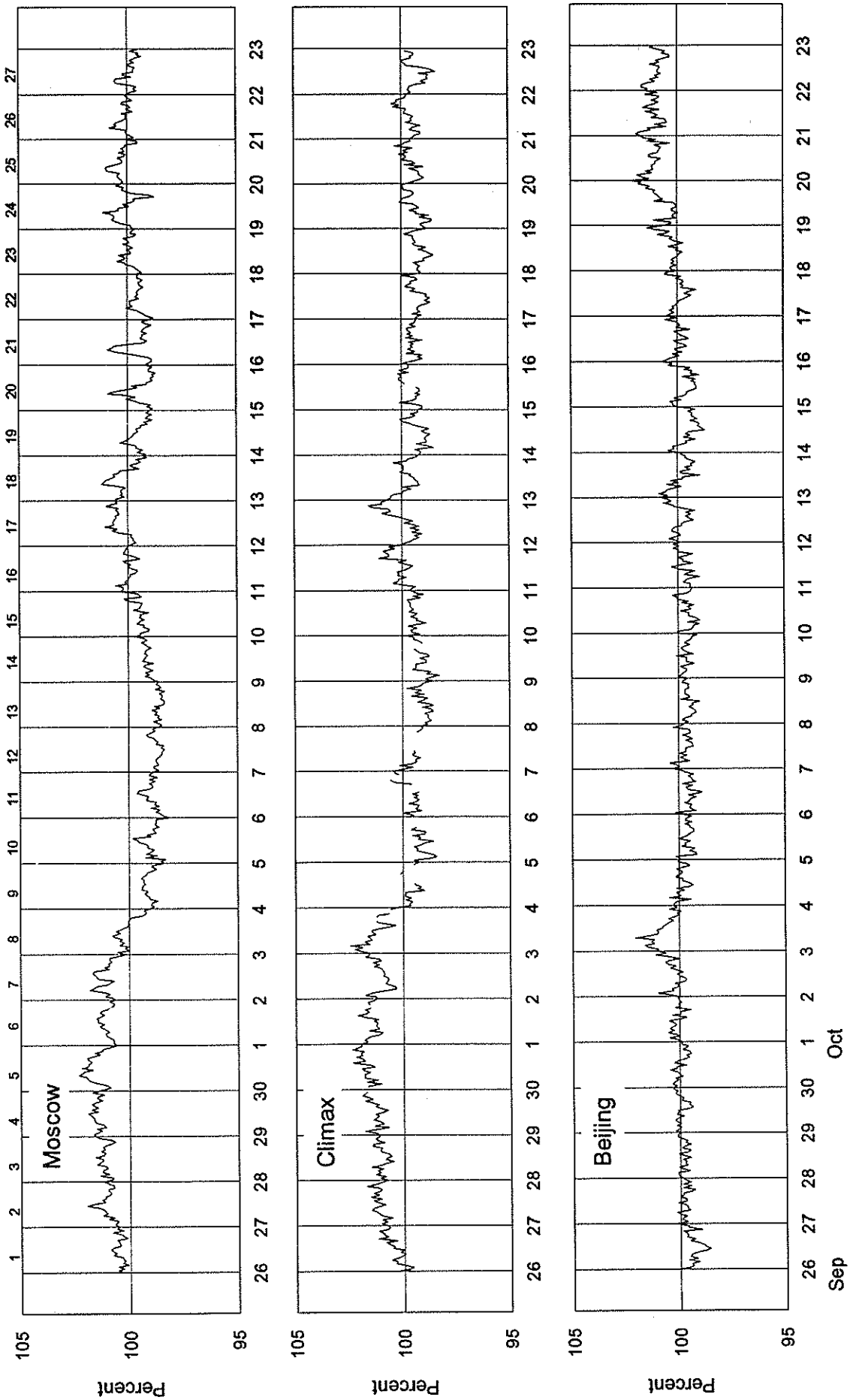
Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	CALGARY Average (cts/h)/300	MOSCOW Average (cts/h)/64	CLIMAX Average (cts/h)/100	BEIJING Average (cts/h)/256	TOKYO Average (cts/h)/256	HALEAKALA Average (cts/h)/1000
1	4541	7221.2	3957.2	9212.8	4199.7	1988.0	3558.8	3568.7
2	4522	7194.2	3920.2	9219.5	4181.1	1990.9	3552.2	3563.5
3	4467	7121.6	3874.8	9127.3	4194.9	2002.0	3557.3	3571.6
4	4437	7065.9	3845.0	9036.2	4121.8(30)	1983.7	3532.6	3544.6
5	4428	7050.2	3833.0	9021.2	4098.2(26)	1977.6	3523.4	3532.8
6	4444	7046.6	3850.5	9017.8	4118.1(32)	1975.5	3524.7	3533.0
7	4439	7023.2	3857.0	8999.3	4118.5(30)	1980.3	3530.7	3544.0
8	4448	7023.4	3857.0	8987.7	4096.0	1976.4	3526.0	3546.0
9	4473	7063.2	3870.3	9036.0	4098.8	1978.3	3527.1	3545.8
10	4479	7100.8	3884.2	9066.7	4114.6	1977.0	3526.4	3551.3
11	4464	7101.8	3889.8	9116.5	4143.6	1979.8	3534.6	3556.3
12	4485	7088.0	3896.7	9151.0	4139.0	1984.3	3526.1	3548.9
13	4495	7098.2	3899.0	9139.4	4131.1	1983.8	3538.8	3548.5
14	4457	7055.1	3867.5	9068.3	4103.9	1974.9	3532.8	3542.3
15	4446	7057.2	3810.3	9059.2	4120.7	1978.5	3531.6	3536.2
16	4453	7064.6	3831.5	9069.5	4116.8	1985.7	3523.2	3529.1
17	4449	7052.5	3830.3	9070.3	4106.5	1984.5	3528.3	3523.2
18	4450	7053.3	3847.7	9107.3	4104.4	1991.0	3534.9	3527.3
19	4451	7071.5	3865.0	9126.4	4111.5	1999.3	3534.5	3536.2
20	4469	7094.3	3885.2	9144.2	4119.6	2009.1	3539.5	3544.6
21	4476	7098.5	3894.7	9126.1	4124.2	2007.9	3549.1	3551.2
22	4481	7095.7	3899.2	9104.9	4110.0	2005.6	3549.2	3548.9
23	4391	7018.8	3847.2	9048.1	4093.3	2003.3	3542.9	3550.1
24	4415	7043.8	3866.0	9063.0	4105.1	2001.6	3557.5	3553.1
25	4470	7107.2	3890.0	9088.2	4130.4	2006.3	3564.2	3557.0
26	4487	7126.8	3899.3	9104.3	4139.0	2007.7	3572.8	3560.8
27	4511	7150.2	3919.7	9165.5	4150.2	2015.0	3571.7	3561.8
28	4530(23)	7171.5	3951.0	9217.7	4168.4	2024.1	3569.8	3563.7
29	4492	7112.2	3931.2	9154.2	4162.7	2023.3	3566.5	3553.2
30	4447	7044.3	3885.2	9100.0	4143.1	2014.0	3554.4	3543.0
31	4438	7040.4	3870.7	9082.5	4123.3	2009.3	3546.0	3537.1
Mean	4466	7085.7	3878.3	9097.8	4128.7	1994.2	3542.8	3547.5

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.

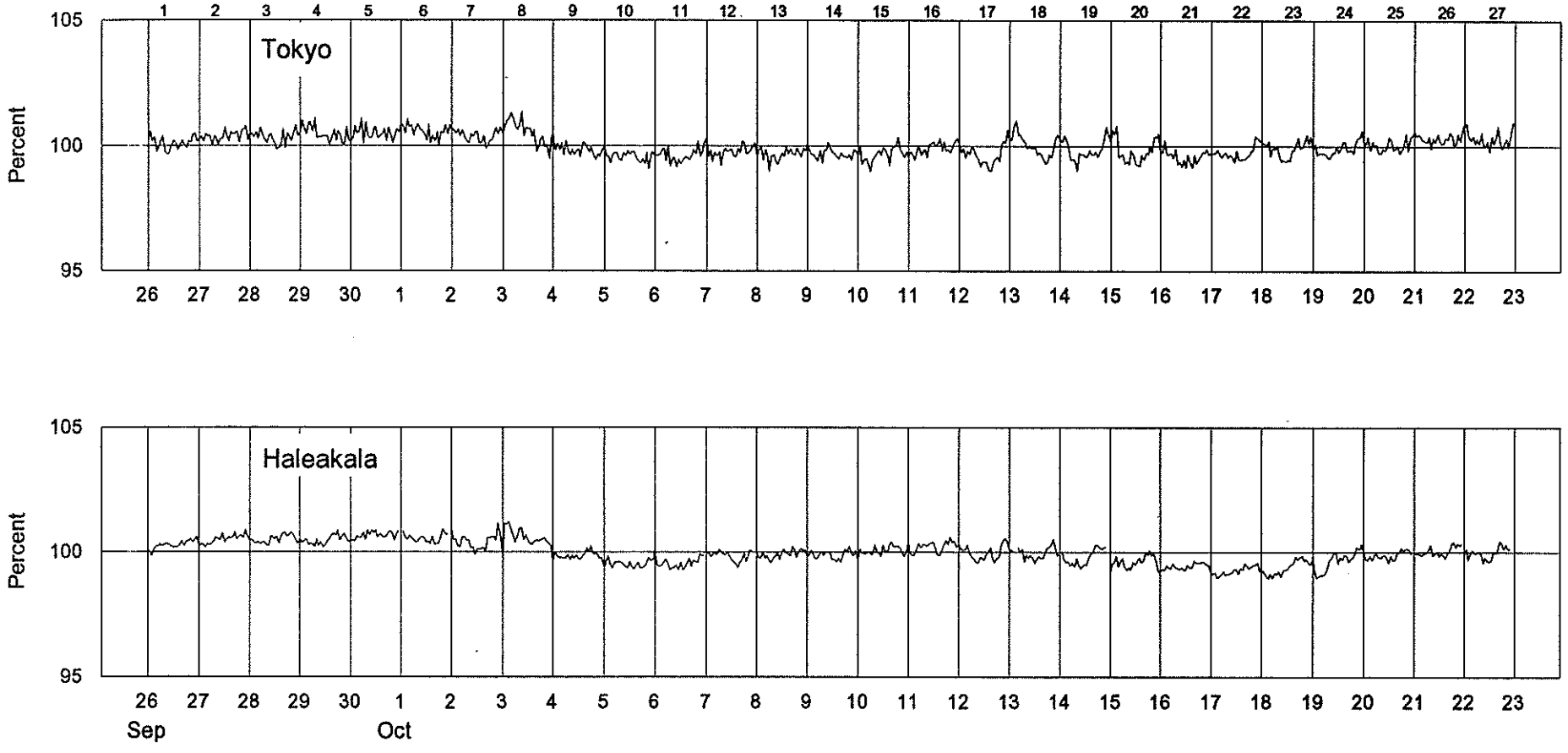
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2201 - Beginning 26 Sep 94



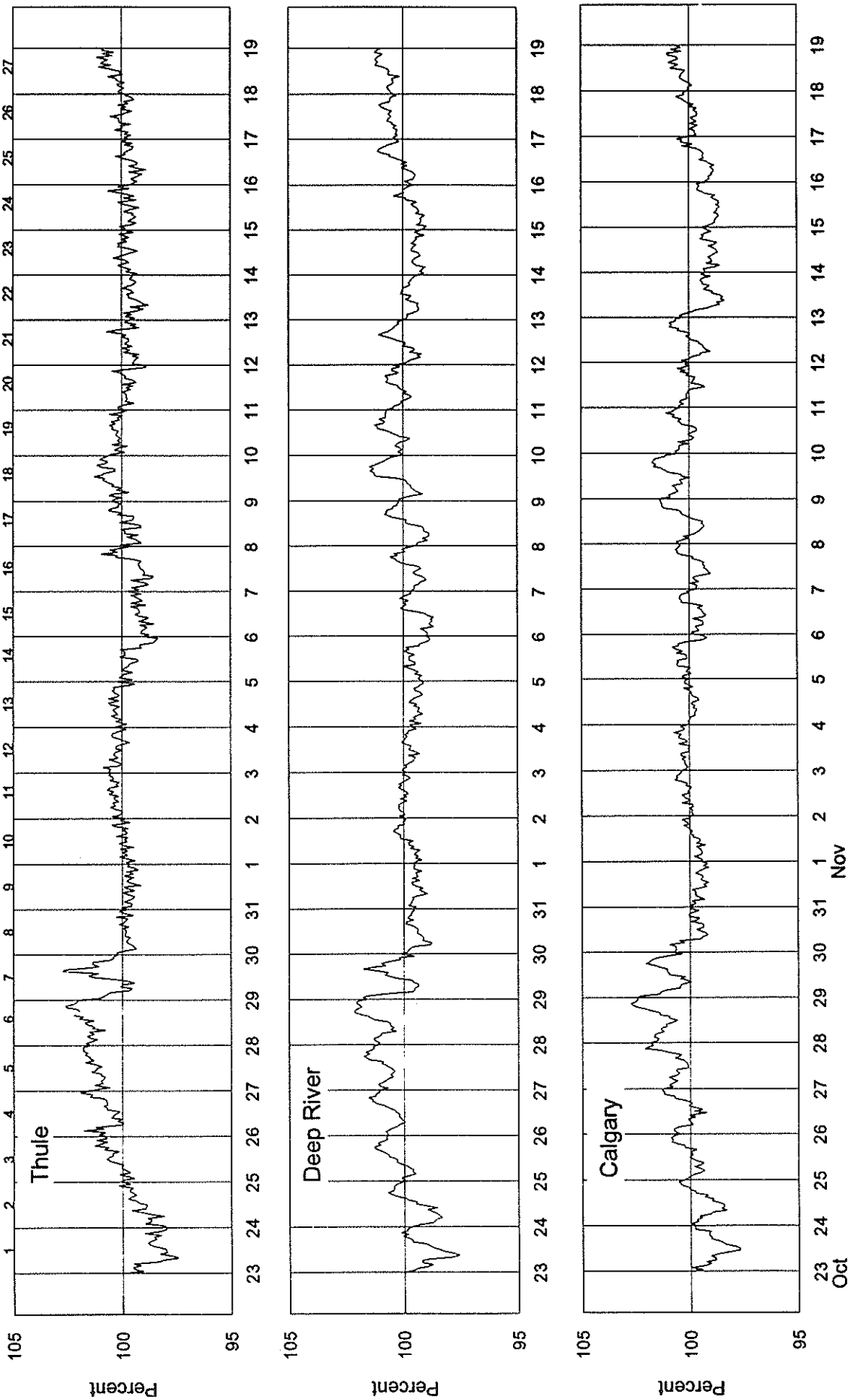
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2201 - Beginning 26 Sep 94



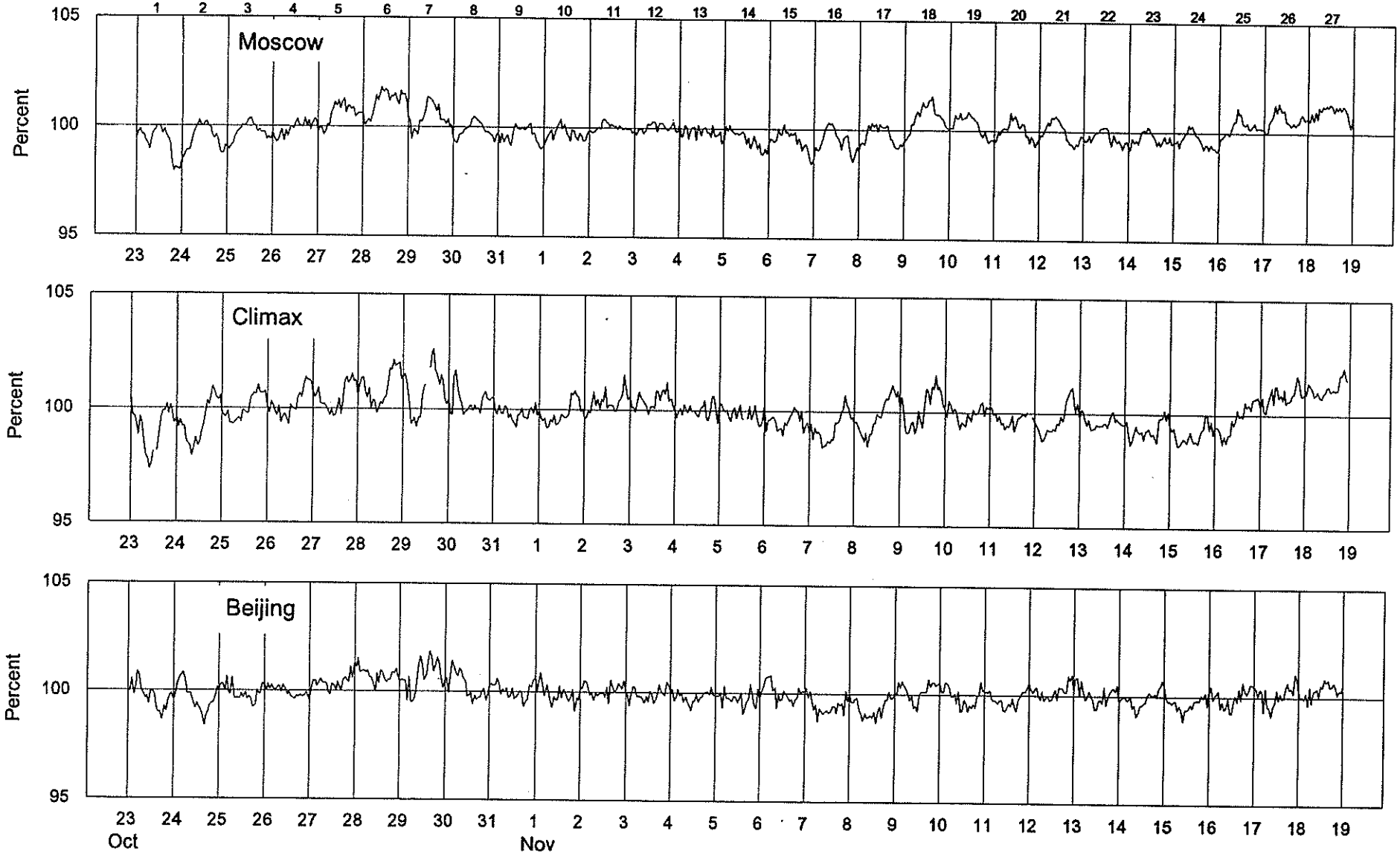
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2201 - Beginning 26 Sep 94



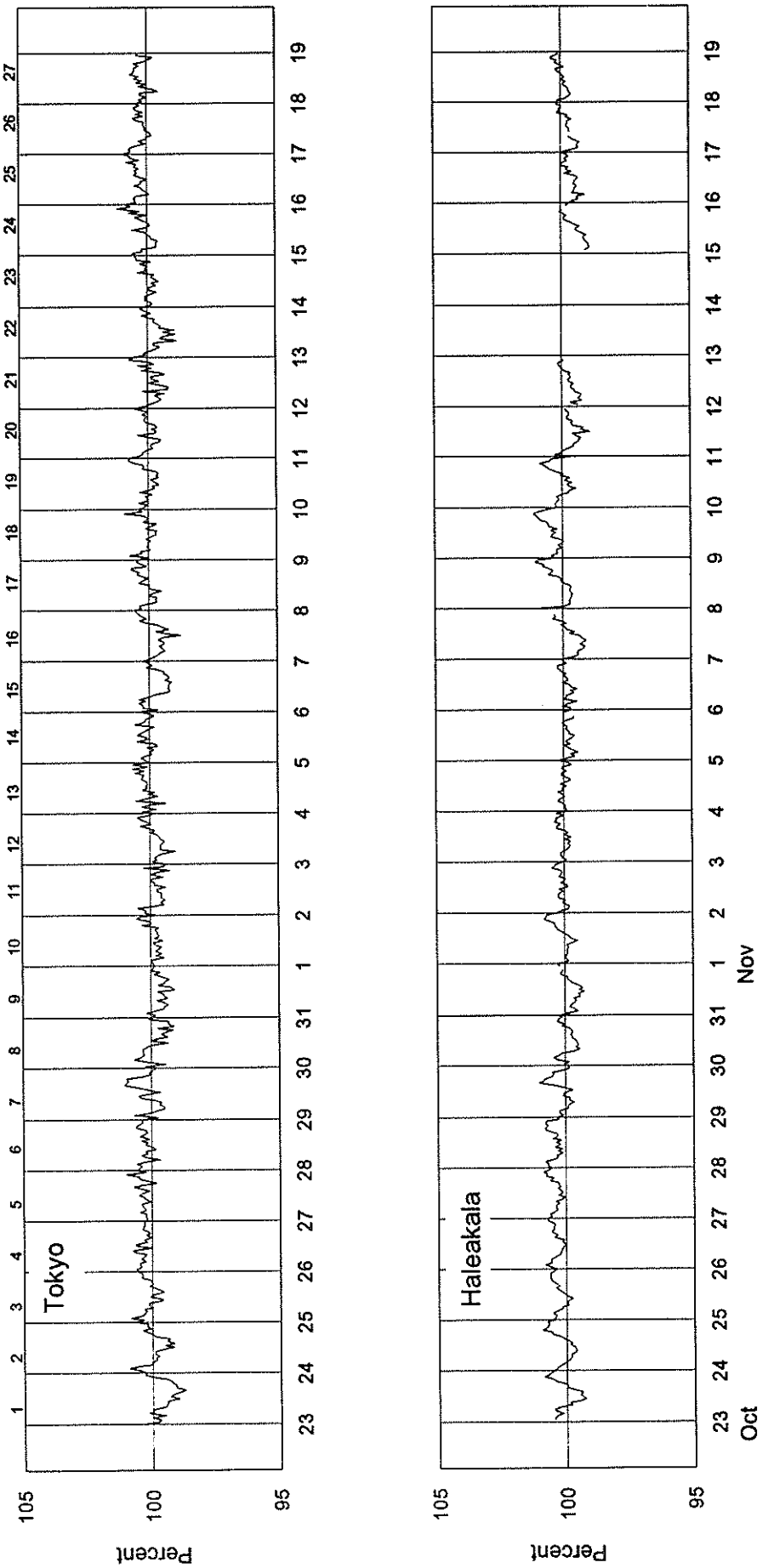
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2202 - Beginning 23 Oct 94



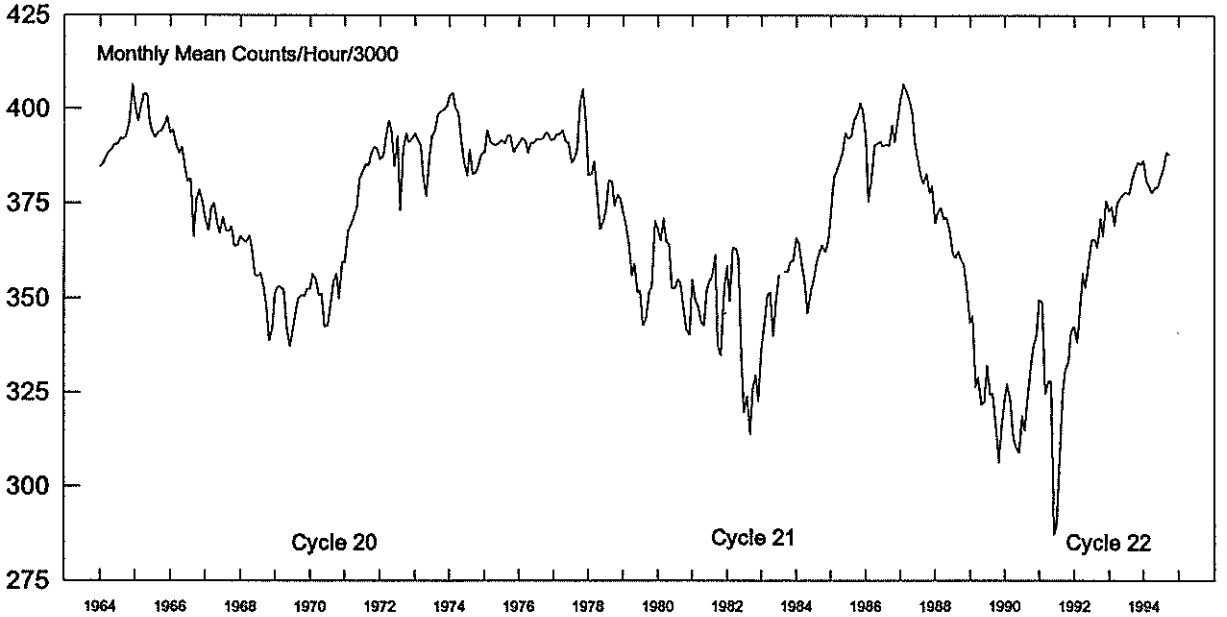
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2202 - Beginning 23 Oct 94



COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2202 - Beginning 23 Oct 94



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



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1964	3847	3852	3872	3883	3892	3905	3905	3921	3920	3926	3966	4064	3913
1965	4006	3968	4007	4040	4040	3967	3935	3923	3938	3942	3960	3980	3976
1966	3935	3943	3906	3881	3899	3844	3807	3814	3663	3758	3785	3750	3832
1967	3710	3678	3741	3750	3697	3671	3713	3679	3675	3691	3638	3639	3690
1968	3663	3653	3647	3665	3632	3561	3556	3567	3529	3482	3386	3420	3563
1969	3515	3531	3529	3520	3417	3370	3408	3464	3500	3507	3506	3524	3483
1970	3523	3565	3548	3505	3512	3424	3426	3477	3543	3564	3497	3596	3515
1971	3593	3678	3693	3712	3737	3813	3832	3853	3851	3883	3899	3893	3786
1972	3865	3875	3924	3969	3942	3847	3926	3731	3895	3935	3912	3920	3895
1973	3935	3919	3903	3819	3768	3875	3926	3944	3986	3995	3997	4008	3923
1974	4036	4043	4005	3988	3906	3861	3822	3890	3827	3831	3850	3881	3912
1975	3883	3943	3914	3905	3904	3910	3918	3907	3929	3927	3884	3897	3910
1976	3908	3923	3915	3881	3909	3909	3921	3918	3920	3936	3935	3916	3916
1977	3919	3933	3933	3943	3911	3911	3857	3865	3895	4010	4055	3961	3933
1978	3823	3826	3860	3773	3681	3697	3730	3811	3808	3744	3772	3764	3774
1979	3726	3696	3647	3559	3592	3516	3521	3427	3447	3519	3528	3705	3573
1980	3681	3652	3711	3649	3643	3527	3525	3550	3540	3471	3414	3403	3564
1981	3550	3491	3483	3440	3426	3522	3546	3560	3615	3374	3348	3520	3490
1982	3586	3492	3634	3632	3608	3344	3196	3239	3137	3257	3296	3225	3387
1983	3364	3421	3510	3515	3399	3487	3563	No Data	3571	3569	3597	3599	3216
1984	3661	3646	3586	3551	3460	3515	3551	3593	3623	3641	3623	3652	3592
1985	3723	3821	3834	3858	3888	3936	3921	3929	3971	3987	4017	3997	3907
1986	3923	3755	3814	3905	3906	3915	3902	3907	3902	3958	3912	3974	3898
1987	4025	4068	4047	4028	3993	3914	3866	3822	3802	3827	3779	3796	3914
1988	3698	3729	3739	3709	3714	3682	3621	3608	3624	3603	3590	3520	3653
1989	3436	3454	3263	3290	3216	3222	3321	3224	3246	3164	3063	3152	3254
1990	3227	3272	3232	3129	3099	3089	3188	3147	3237	3317	3375	3401	3226
1991	3496	3489	3244	3279	3280	2873	2896	3078	3253	3311	3330	3412	3245
1992	3425	3382	3463	3566	3528	3593	3655	3655	3636	3711	3665	3758	3586
1993	3730	3741	3693	3753	3765	3775	3780	3775	3815	3836	3859	3852	3781
1994	3864	3807	3798	3779	3793	3793	3822	3841	3885	3878			3826

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

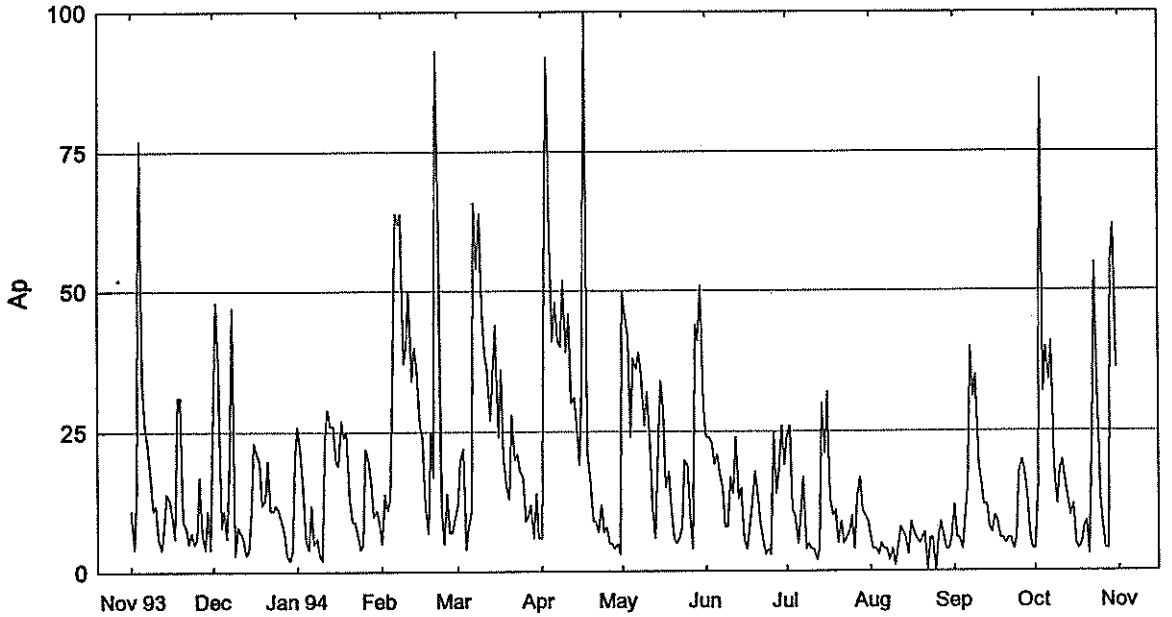
GEOMAGNETIC ACTIVITY INDICES

October 1994

Day		Kp Three-Hourly Indices 1 2 3 4	5 6 7 8	Sum	Ap	Cp	Ka Three-Hourly Indices 1 2 3 4	5 6 7 8	Am	aa Provisional N	S	N	
1	Q2	2- 1+ 1+ 1	1- 0+ 1- 1-	8-	4	0.1	2- 1+ 1+ 1+	1- 0+ 1- 1o	7	9	10	12	7 CC
2		0+ 1 1 1+	2- 4 4- 5+	18+	16	0.9	0+ 1+ 1o 2-	2- 4- 3+ 4+	23	32	20	7	45
3	D1	6+ 7 7 6-	7- 6 6- 4-	48	88	1.8	5o 5+ 6o 5+	6- 5- 5- 3+	102	99	96	118	77
4		5- 4+ 5- 4-	4+ 5- 4 4-	34	32	1.3	4o 4- 4o 4-	4o 4o 3o 4-	48	54	55	49	60
5		5- 4+ 4 5+	5+ 5- 5- 4+	37+	40	1.4	4o 4- 3o 4+	4+ 4o 4o 4o	54	66	51	54	63
6		4 4+ 5- 5-	5- 4 4- 5	35	34	1.3	4- 3+ 4- 4o	4+ 3o 3o 4+	48	57	46	46	58
7	D5	5- 5- 5- 3+	5- 5 5+ 5	37+	41	1.5	4- 4- 4- 3o	5- 4o 5- 4+	53	69	48	43	74
8		4- 4 4- 4	2- 3 4- 2+	26	19	1.0	3o 3+ 3o 4-	2- 3- 3o 3-	29	35	23	37	22
9		3 3+ 3 1+	2- 2+ 4- 2	20+	12	0.7	2+ 3- 3- 1+	2o 2o 3+ 1+	19	22	15	17	20
10		4- 3+ 3- 3-	2 3 4 4+	26-	18	1.0	3o 3- 3- 3-	3- 3o 3+ 3+	28	34	25	22	37
11		3 4 3+ 4-	3+ 3 4+ 3-	27+	20	1.0	3- 3o 3+ 4-	4- 3o 4- 2+	34	36	29	29	37
12		3- 4 4- 2+	1+ 2- 4 4-	23+	16	0.9	2+ 3+ 3o 3-	2o 2+ 4- 3o	26	28	19	23	24
13		3- 3 3- 3+	2 3- 3- 3	22	13	0.7	2+ 3- 3- 3+	2- 3- 2+ 3-	22	20	22	24	18
14		3 2+ 1- 2	2- 3+ 2 3	18	10	0.6	2+ 2o 1o 2-	1+ 3- 2- 3o	16	25	12	14	24
15		4- 4 2+ 3-	2+ 1+ 2 2	20+	12	0.7	4- 3+ 3- 3-	3- 1+ 2- 2-	23	24	27	37	14
16	Q7	2 1+ 2- 2	1+ 1 1 1	11+	5	0.2	2o 1+ 2- 2+	1+ 1o 1- 1o	10	10	11	13	8 CC
17	Q4	1+ 1 1 1+	1 0+ 1+ 2	9+	4	0.2	1o 1o 1+ 1+	1o 0+ 1+ 2-	8	9	9	9	9 CC
18	Q6	2- 0+ 0+ 0+	0+ 1+ 2 3-	9	5	0.2	2- 0+ 0+ 0+	0+ 1+ 2o 3-	9	11	5	5	11 CC
19	Q8A	1+ 1- 1- 0	2 3- 3 3+	14-	8	0.4	1+ 1o 1- 0+	2o 3- 3- 3o	14	16	17	8	24
20	Q10A	3+ 1 1 1	2- 3- 3- 2+	16-	9	0.5	3o 1+ 1+ 1o	2- 2+ 2+ 2o	16	21	12	13	20
21	Q1	2- 1- 1- 1	0+ 0+ 1- 1-	6	3	0.1	2- 1- 1- 1o	0o 0+ 1- 1-	5	8	5	8	5 C
22		1- 1- 2 4-	4 4 4- 6+	25	26	1.2	1- 1- 3- 4o	4- 4- 3o 5+	39	42	46	25	63
23	D3	6 5+ 6+ 5	6- 4 5- 4	41	55	1.6	5+ 5- 5o 5-	5- 4- 4o 3+	75	79	71	97	54
24		4 5 5- 4-	4- 5+ 4 4-	34	33	1.3	3+ 4- 4- 4-	3+ 4o 3+ 3o	42	54	32	37	49
25		3- 5- 4+ 2-	1 1- 2- 1-	17+	13	0.8	2+ 4- 3+ 2-	1o 1- 2- 1o	17	19	18	30	8
26	Q9A	3+ 2+ 2- 2-	2- 1 2+ 1+	15+	8	0.4	3- 2o 2- 2o	2- 1+ 2+ 1+	14	16	13	16	13 C
27	Q3	1- 2- 1+ 2-	2- 1 1- 1-	9+	4	0.2	1- 1o 2o 2+	2- 1- 0+ 0+	9	9	7	8	8 CC
28	Q5	1+ 1- 2- 1	1+ 0+ 1 2	9+	4	0.2	1o 1- 2- 1+	2o 0+ 1- 2o	9	11	9	8	12 C
29	D4	4 3 4 6	7 7 3+ 3-	37	55	1.6	4- 3- 4- 5+	6+ 6o 3o 3o	79	56	79	51	84
30	D2	3+ 5+ 7- 6	5+ 4+ 7- 4+	42	62	1.7	4- 4+ 5o 5o	5- 4- 5o 4-	71	79	75	77	77
31		5- 4- 4+ 6-	5- 4+ 5- 4-	36-	36	1.4	4- 3o 4- 5o	5- 4o 4o 3+	53	54	51	51	54
Mean					23	0.87			32.3	35.6	31.0		33.3

Day	Kn Three-Hourly Indices 1 2 3 4	5 6 7 8	An	Ks Three-Hourly Indices 1 2 3 4	5 6 7 8	As	Prov Sa	Ri	Ra	Rs	INF
1	2- 2- 1+ 1+	1- 1- 1- 1o	8	2- 1+ 1+ 1o	1- 0o 0+ 1-	6	74.7	16	17	19	
2	0+ 1o 1- 2-	2o 4- 3+ 5-	25	1- 1+ 1o 1+	1+ 3+ 3o 4+	22	74.6	16	18	19	
3	5+ 6- 6o 5+	6o 5o 5- 3+	114	5- 5o 6- 5+	6- 5- 4+ 3+	89	74.3	16	19	18	
4	4- 4o 4+ 4o	4+ 4+ 3o 3+	52	4o 3o 4- 3+	4- 4- 3o 4o	45	74.7	25	29	19	
5	4- 4- 3o 4+	5- 4+ 4o 4-	55	4o 4- 3o 5-	4o 4- 4o 4o	52	79.4	48	41	24	
6	3o 4- 4o 4+	4+ 3+ 3o 4+	50	4+ 3o 3+ 4-	4+ 3o 3- 5-	46	84.2	53	54	29	
7	4- 4o 4o 3o	5o 4o 4+ 4o	58	3+ 3+ 4- 3-	4o 4- 5- 4+	48	83.7	46	48	28	
8	3o 3+ 3+ 4-	2- 3- 3o 3-	31	3+ 3+ 3- 4-	2- 3- 3- 3-	29	86.0	44	43	31	
9	3- 3- 3- 2-	2o 2+ 4- 2-	21	2+ 3- 3- 1o	2o 2o 3o 1+	18	86.9	50	50	32	
10	3- 3- 3o 3o	3- 3+ 4- 3+	31	3+ 2+ 3- 3-	2o 3o 3o 3o	26	86.6	49	52	32	
11	3- 3o 4- 4o	4- 3+ 4o 2+	38	3- 3o 3o 3+	3+ 3- 4- 2+	31	87.2	48	49	32	
12	2+ 3+ 3o 3-	2+ 2+ 4- 3o	28	2+ 3+ 3o 3-	1+ 2o 3+ 3-	23	87.7	45	44	33	
13	2+ 2+ 3- 3+	2o 3- 2+ 3-	22	2+ 3o 3o 3o	1+ 2+ 2o 3-	21	92.7	45	44	38	
14	2+ 2o 1o 2-	2- 3o 2o 3o	17	3- 2o 1- 2o	1+ 2o 1+ 3o	16	92.1	60	60	37	
15	3+ 3o 2+ 3o	3- 2- 2- 2-	21	4o 4- 3- 3-	3- 1o 2- 2-	25	92.2	57	56	38	
16	2o 1+ 2- 3-	1+ 1o 1o 1o	11	2o 2- 2- 2o	1+ 1o 1- 1o	10	90.9	51	52	36	
17	1o 1- 1+ 1o	1o 0+ 1+ 2o	8	1+ 1o 1+ 1+	1o 0+ 1+ 2-	8	91.0	39	44	36	
18	2- 0o 0+ 0+	0+ 1+ 2+ 2+	8	2- 1- 0o 1-	0+ 1+ 2- 3-	9	89.8	55	51	35	
19	1o 1+ 1- 0+	2o 3o 3- 3o	15	1+ 1o 1o 0o	2- 2+ 3- 3+	14	89.9	56	60	35	
20	3o 2- 1+ 1+	2- 3- 3- 2o	16	3+ 1+ 1+ 1o	1+ 2o 2+ 2o	15	89.3	49	51	34	
21	1+ 0+ 0+ 1-	0+ 1- 1- 1-	5	2- 1- 1o 1o	0o 0o 1- 0+	4	87.0	41	38	32	
22	1o 1- 2o 4-	4- 3+ 3+ 5+	39	0+ 0+ 3- 4+	4- 4- 3o 5+	40	84.7	29	33	29	
23	5o 5- 6- 5o	5o 4- 4+ 3+	81	6- 5- 5- 5-	5- 3+ 4- 4-	69	83.3	25	28	28	
24	4- 4o 4- 4o	4- 4+ 4- 3o	50	3o 3+ 3+ 3o	3o 4- 3o 3-	33	81.3	28	17	26	
25	2- 4- 3+ 1+	1o 1o 2- 1-	18	2+ 3+ 3o 2-	1- 1- 2- 1+	16	88.5	31	25	34	
26	3- 2- 2- 2+	2o 1+ 2+ 1+	15	3- 2+ 2- 1+	2- 1o 2o 1+	13	91.5	56	50	37	
27	1- 1o 2- 2+	2+ 1- 1- 1-	9	1- 1o 2o 2+	1+ 0+ 0+ 0+	8	91.9	57	56	37	
28	1+ 1- 2o 1o	2+ 1- 1o 2-	10	1- 1o 1+ 1+	2- 0o 1- 2o	8	96.1	57	56	42	
29	3+ 3- 4o 5+	6+ 6- 3o 3o	78	4- 3o 4- 5+	7- 6o 3- 3o	80	96.9	55	57	43	
30	3+ 4o 5o 5+	5o 4o 5+ 4-	76	4- 5- 5+ 4+	4+ 3+ 5o 4-	66	96.4	59	56	42	
31	4o 3o 4- 5o	5o 4+ 4+ 3o	62	3+ 3- 3+ 5-	4o 4- 4- 3+	45	95.2	51	56	41	
Mean			34.6			30.2	87.1	43.8	43.7	32.1	

Daily Average Indices Ap
Nov 1993 - Oct 1994

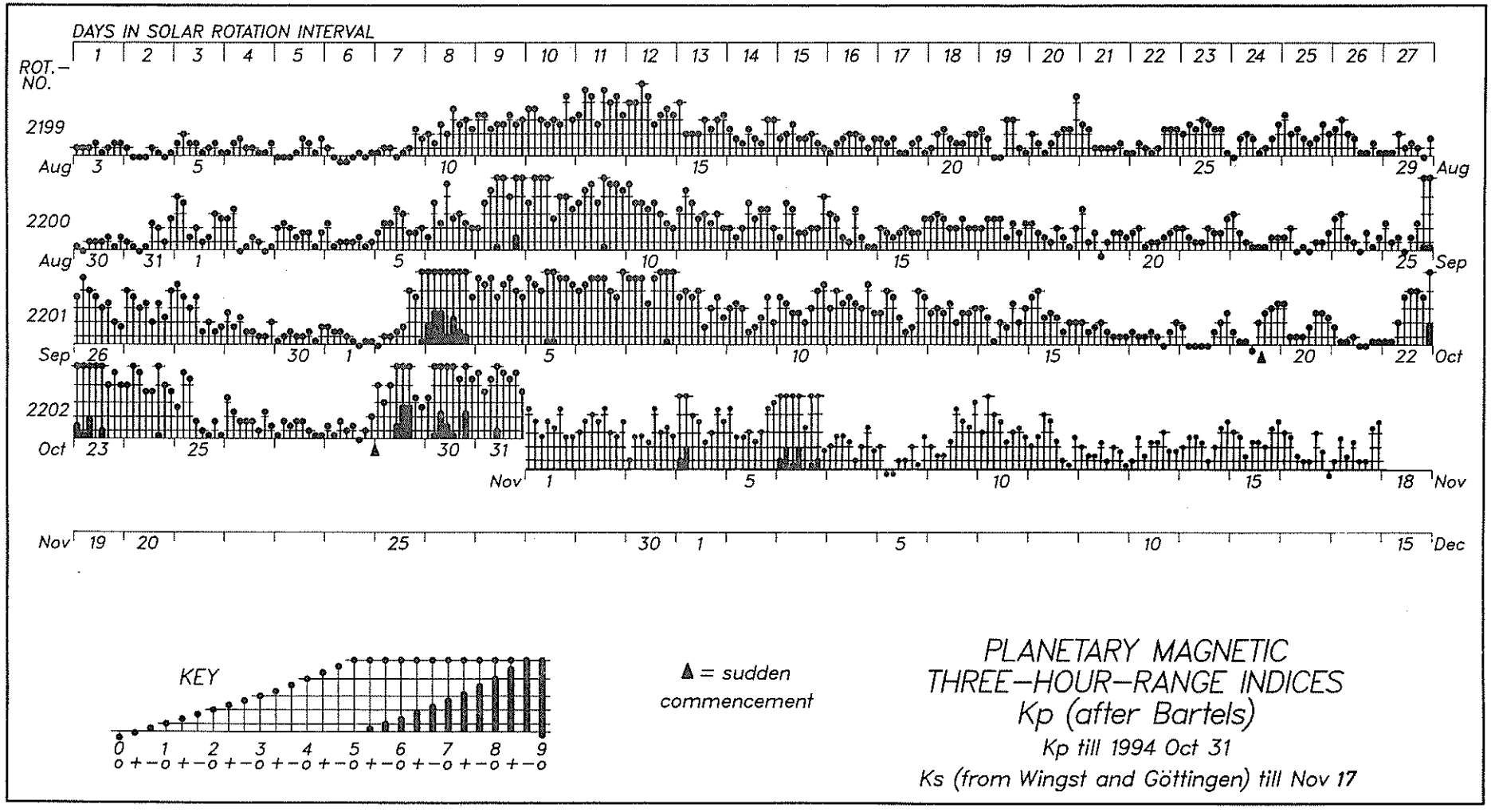


Day	Nov 93	Dec	Jan 94	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1	11	29	26	5	12	6	50	24	24	6	12	4
2	4	48	21	14	20	53	46	24	26	4	6	16
3	15	37	15	11	22	92	42	23	11	4	6	88
4	77	8	6	13	4	59	24	19	10	3	4	32
5	34	11	4	32	8	41	38	21	5	5	10	40
6	26	6	12	64	11	48	36	18	10	4	15	34
7	23	20	5	62	66	41	39	15	17	4	40	41
8	17	47	6	64	54	40	35	8	4	2	31	19
9	11	3	3	37	64	52	26	8	5	4	35	12
10	12	8	2	40	47	39	32	17	4	1	19	18
11	6	7	24	50	39	46	25	14	4	4	16	20
12	4	6	29	34	36	30	11	24	2	8	12	16
13	8	3	26	40	27	31	6	13	4	7	12	13
14	14	4	26	36	35	26	19	15	30	6	8	10
15	13	11	20	26	44	19	34	6	21	3	7	12
16	10	23	19	24	24	33	29	4	32	9	10	5
17	6	21	27	12	36	100	15	8	13	7	9	4
18	31	20	24	7	20	21	18	12	10	6	6	5
19	31	12	25	25	15	17	11	18	11	5	6	8
20	9	13	14	17	13	9	6	14	5	6	5	9
21	8	20	9	93	28	9	5	9	9	7	6	3
22	5	11	9	60	20	7	6	6	5	0	6	26
23	7	11	7	12	21	12	8	3	6	6	4	55
24	5	12	4	5	18	7	20	4	7	6	6	33
25	6	11	5	14	17	8	19	3	10	0	18	13
26	17	9	22	7	9	5	10	25	4	6	20	8
27	7	7	20	7	10	5	4	14	13	9	18	4
28	4	3	16	10	12	4	44	18	17	6	14	4
29	11	2	10		6	5	41	26	11	4	6	55
30	4	4	11		14	3	51	19	10	4	4	62
31		20	9		6		29		9	6		36
Mean	15	14	15	29	24	29	25	14	11	8	12	23

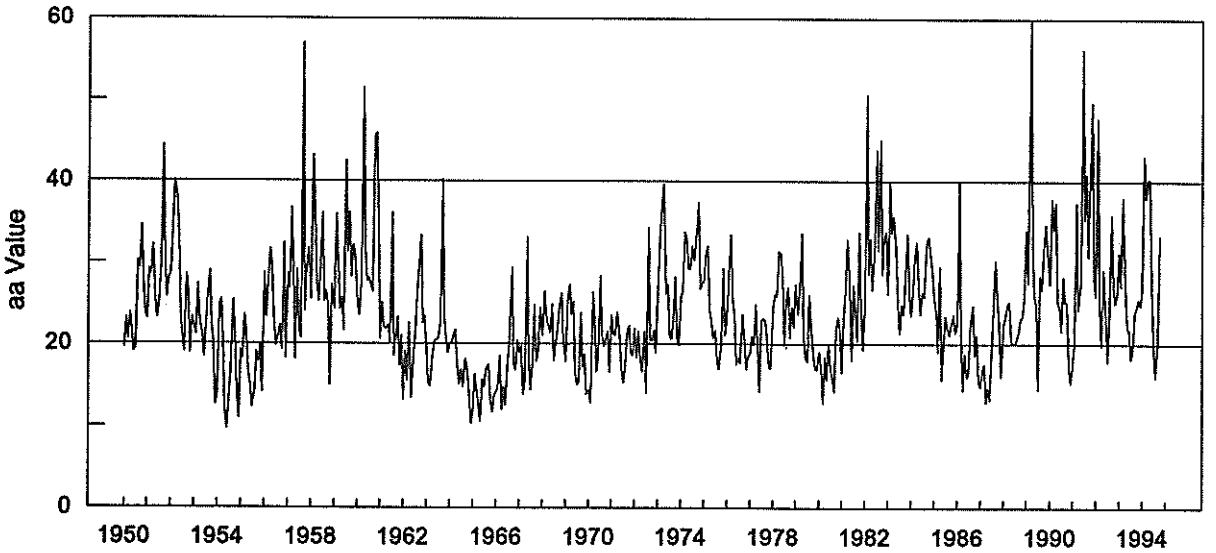
PLANETARY 3-HOUR-RANGE INDICES (Kp) BY 27-DAY SOLAR ROTATION INTERVAL

University of Gottingen

Kp through October 31, 1994



Monthly Mean aa Index Jan 1950 - Oct 1994



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1950	19.5	23.2	20.6	23.8	21.7	19.0	19.5	30.2	29.3	34.5	28.0	24.0	24.4
1951	23.1	29.2	28.5	32.1	25.5	23.2	25.2	29.7	44.4	30.3	25.7	28.2	28.8
1952	28.5	34.3	40.1	38.0	33.1	23.8	20.7	19.0	28.5	26.4	18.9	23.4	27.9
1953	22.3	21.2	27.4	22.7	21.4	18.4	22.5	26.1	29.0	22.4	20.2	12.6	22.2
1954	13.9	24.5	25.5	20.6	12.0	9.7	13.1	16.5	25.4	21.1	14.5	10.9	17.3
1955	19.3	18.2	23.6	21.1	16.7	15.1	12.3	14.3	19.1	17.8	19.9	14.1	17.6
1956	28.7	23.3	27.6	31.7	29.3	23.5	19.8	20.7	22.4	19.3	32.3	18.2	24.7
1957	28.7	26.8	36.7	28.8	18.1	29.1	21.7	20.7	57.0	24.0	29.5	31.7	29.4
1958	25.5	43.2	36.1	27.6	25.2	29.7	36.0	25.1	26.5	24.7	15.0	27.2	28.5
1959	24.3	35.9	29.9	24.2	25.7	21.6	42.5	31.2	36.1	28.2	32.1	30.8	30.2
1960	25.2	23.5	27.6	51.5	31.6	27.6	28.1	27.2	26.4	45.6	45.9	34.5	32.9
1961	20.6	25.1	22.0	21.8	22.3	20.1	36.0	18.5	20.7	23.3	17.3	21.1	22.4
1962	13.2	19.2	15.5	22.6	13.4	18.1	21.0	26.2	29.8	33.3	22.5	23.5	21.5
1963	19.3	15.3	14.9	18.2	20.4	20.5	20.8	22.5	40.2	23.5	20.7	18.9	21.3
1964	20.1	20.1	21.0	21.7	17.5	15.1	16.9	14.8	18.2	16.9	13.8	10.3	17.2
1965	11.8	16.3	14.3	12.6	10.5	15.7	14.7	16.8	17.5	13.1	11.7	13.8	14.1
1966	14.2	14.8	18.6	12.0	14.8	12.5	17.1	20.0	29.4	17.5	16.8	20.5	17.3
1967	18.9	19.8	13.8	15.5	33.1	18.6	14.4	17.5	24.7	17.8	18.9	24.5	19.8
1968	21.1	26.5	23.3	22.2	21.4	24.9	18.0	20.1	22.0	24.8	26.2	20.3	22.6
1969	17.8	25.8	27.3	23.6	25.2	16.7	15.0	15.3	23.8	17.2	18.7	13.8	20.0
1970	14.4	12.7	26.4	23.1	16.6	18.3	28.4	21.0	19.7	20.6	21.6	16.5	19.9
1971	23.5	21.2	21.1	23.9	21.1	17.0	15.2	17.1	21.4	22.2	18.8	18.6	20.1
1972	21.9	18.3	21.5	18.1	16.6	21.5	14.0	34.2	20.4	20.4	21.8	18.9	20.6
1973	26.1	32.7	36.9	39.6	26.1	27.3	20.9	20.6	22.8	28.2	20.7	19.9	26.8
1974	25.8	26.4	33.7	32.9	29.2	29.2	32.0	30.2	33.7	37.3	26.8	27.5	30.4
1975	27.6	31.1	32.0	24.3	22.7	20.7	21.7	18.1	16.9	20.2	29.3	21.1	23.8
1976	23.3	28.5	33.4	25.4	23.7	17.5	18.4	17.7	23.7	20.4	16.9	18.6	22.3
1977	18.7	21.0	19.9	24.9	20.1	14.2	22.9	23.2	23.0	20.9	17.3	17.0	20.3
1978	24.6	26.2	25.9	31.3	31.2	28.3	19.9	25.6	27.0	20.8	24.6	22.0	25.6
1979	27.3	23.7	26.9	33.5	21.0	18.3	17.9	26.0	22.0	19.3	17.1	16.8	22.5
1980	19.0	17.3	12.7	18.4	15.6	20.0	17.0	15.9	14.2	21.9	23.3	21.7	18.1
1981	16.5	23.1	26.6	32.8	26.9	18.0	27.2	24.0	20.4	33.7	24.1	19.3	24.4
1982	24.2	50.6	28.5	32.9	26.7	32.1	43.9	31.4	45.1	28.5	33.0	33.8	34.2
1983	26.2	40.0	33.6	35.7	31.6	24.9	21.3	24.9	23.7	28.3	33.5	26.0	29.1
1984	23.5	26.7	30.7	32.5	27.2	23.7	26.4	25.8	32.6	33.1	31.0	29.0	28.5
1985	25.7	24.1	19.0	29.5	15.6	19.9	23.4	22.0	21.2	22.2	23.7	21.4	22.3
1986	22.4	40.0	21.1	14.3	18.8	15.9	16.3	22.3	24.7	18.6	21.2	15.3	20.9
1987	14.8	16.6	17.6	12.9	14.7	13.2	19.3	24.3	30.3	25.8	22.4	16.0	19.0
1988	22.4	23.4	24.8	25.2	20.5	20.0	20.2	20.6	21.4	23.2	23.3	25.5	22.5
1989	33.9	27.5	60.1	32.8	25.7	24.9	14.4	28.4	26.7	31.4	34.7	31.4	31.0
1990	27.4	37.8	33.9	37.4	25.1	24.6	21.6	28.2	25.1	25.1	17.4	15.2	26.6
1991	17.2	20.1	37.3	24.3	27.3	56.2	35.2	40.8	30.7	44.1	49.7	28.0	34.2
1992	25.9	47.7	24.5	19.8	29.1	24.8	17.9	24.1	35.8	27.0	25.0	26.1	27.3
1993	31.2	27.1	37.9	29.2	22.1	21.8	18.2	19.2	23.8	24.6	25.5	24.8	25.5
1994	26.5	43.2	37.9	40.2	40.2	27.2	20.6	16.0	20.2	33.3			30.5

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Thule

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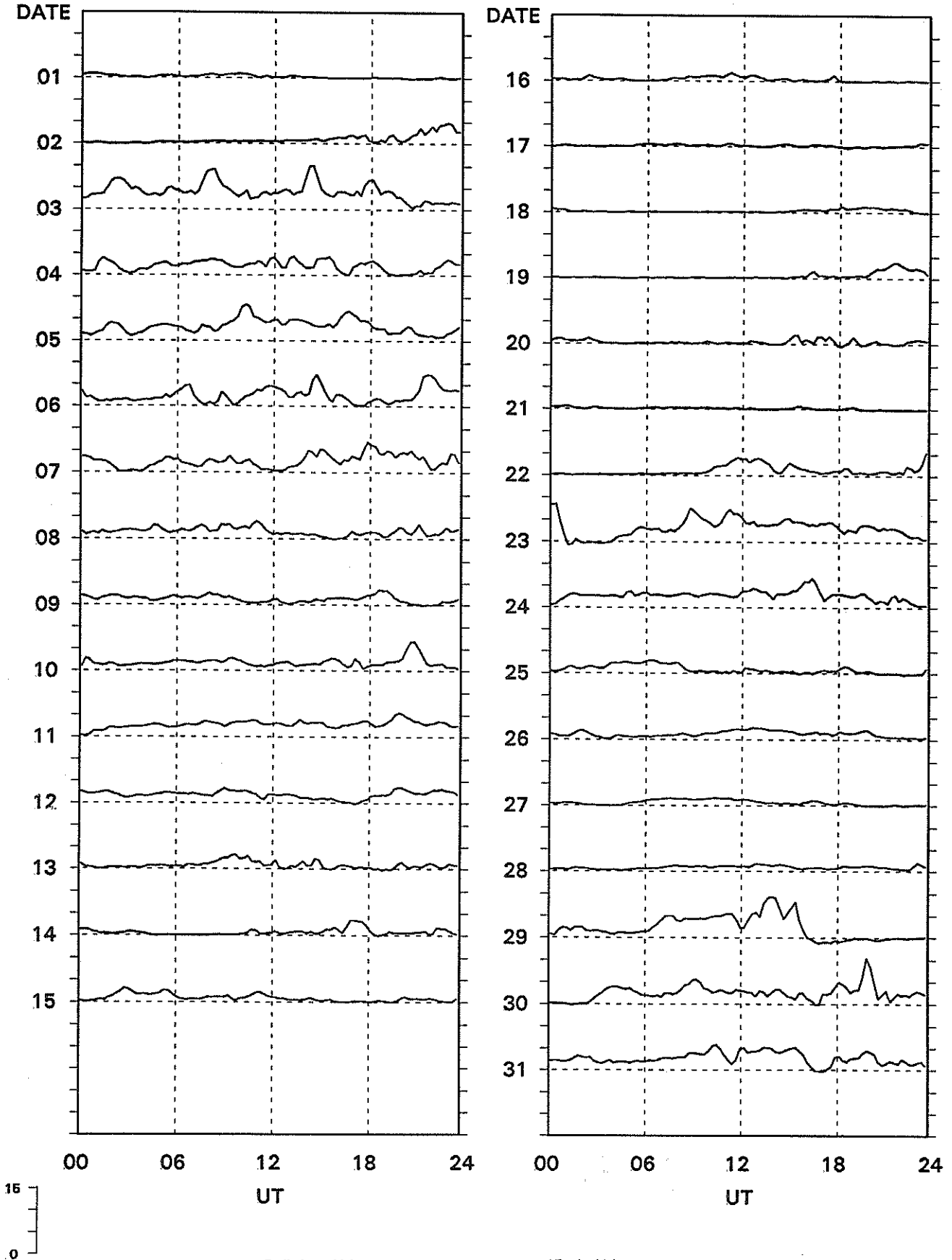

Preliminary Values.

15-min. Values.

Div. Geophys. D M I

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

OCTOBER 1994

Sta	Geomag Lat	Commencement Time Day	(UT)	Type	SC Amplitudes D (Min)	H (Gamma)	Z (Gamma)	Maximum 3-Hour K Index Day(3-Hour Periods)	K	Ranges D (Min)	H (Gamma)	Z (Gamma)	End Day	Hour (UT)
FRD	49.4N	02	17--	..	..	..	..	03(2,3)	6	28	166	93	12	13
BJI	28.8N	02	11--	..	..	..	..	03(5)	7	14	191	25	04	19
KRC	16.4N	02	1044	..	..	..	..	03(3,5,6)	6	81	177	92	03	21
UJJ	13.6N	02	1700	..	..	..	..		-	6	136	31	04	20
ABG	09.4N	02	1700	..	..	..	..	02(5,6,8) 03(1,2,3,4) 03(5,6,7) 04(4,5,6)	6	5	120	46	04	20
HYB	07.6N	02	1000	..	..	..	..	03(3,5,6)	6	5	161	28	04	21
ETT	00.7S	02	1200	..	..	..	..		-	5	188	117	04	21
TRD	01.1S	02	1700	..	..	..	..		-	3	188	39	04	20
PMG	18.3S	02	12--	..	..	..	..	03(4,5)	6	8	160	90	05	00
HER	33.6S	02	17--	..	..	..	..	03(5,6,7)	5	32	156	102	04	04
CAN	43.6S	02	17--	..	..	..	..	03(3,4)	6	26	151	73	03	21
AMS	46.8S	02	1713	SC	- .6	- 18	7	03(5)	7	45	214	136	08	12
CZT	51.5S	02	15--	..	..	..	..	03(5)	6	37	228	138	12	00
PAF	57.2S	02	16--	..	..	..	..	03(5)	9	108	1053	306	08	13
DRV	75.2S	02	1713	SC	- 52	- 35	88	03(2)	6	616	712	698	11	06
GUA	04.3N	03	00--	..	..	..	..	03(4)	6	--	--	--	03	21
KRC	16.4N	04	0736	..	..	..	..	04(6) 05(4,6,7) 06(3,4,8) 07(6,7)	5	90	139	77	08	13
UJJ	13.6N	05	0900	..	..	..	..		-	5	118	33	07	21
ABG	09.4N	05	0900	..	..	..	..	05(5,6,7) 06(3,5,8) 07(2,5,6)	5	5	118	41	07	21
HYB	07.6N	05	0500	..	..	..	..	05(4,5,6) 07(6)	5	5	123	32	07	24
GUA	04.3N	05	21--	..	..	..	..	06(5)	5	--	60	40	06	17
ETT	00.7S	05	0100	..	..	..	..		-	5	177	74	08	12
TRD	01.1S	05	0900	..	..	..	..		-	3	174	90	07	21
HER	33.6S	05	08--	..	..	..	..	05(7)	5	21	92	69	06	01
HER	33.6S	06	17--	..	..	..	..	06(8)	5	10	69	54	07	02
GUA	04.3N	07	13--	..	..	..	..	07(5)	5	--	50	10	07	17
HER	33.6S	07	13--	..	..	..	..	07(7)	5	22	62	66	08	01
GUA	04.3N	11	09--	..	..	..	..	11(5)	5	--	40	10	11	17
HYB	07.6N	12	1729	SC	- 0.2	8	0	12(7) 13(2,4)	4	3	78	22	14	04
ETT	00.7S	12	1728	SC	- 0.5	11	7		-	4	129	35	14	04
HYB	07.6N	19	1451	SC	- 0.2	12	- 1	19(7)	4	4	62	20	20	22
ETT	00.7S	19	1451	SC	- 0.3	15	13		-	4	143	38	20	21
FRD	49.4N	22	08--	..	..	..	..	22(8) 23(1,3)	6	40	113	74	25	12
BJI	28.8N	22	0848	SC	0.8	14	0	22(8)	6	13	136	28	23	24
KRC	16.4N	22	0848	..	..	..	..	23(5,7)	6	78	145	98	23	23
UJJ	13.6N	22	1210	SC	- 1	38	- 28		-	4	102	23	23	21
ABG	09.4N	22	1210	SC	- 1	32	- 12	22(4,5,6,8) 23(1,2,5,6,7)	5	3	108	27	23	21
HYB	07.6N	22	0849	SC	0	12	- 2		-	--	--	--	--	--
HYB	07.6N	22	1215	SC	- 0.9	30	- 2		-	--	--	--	--	--
GUA	04.3N	22	08--	..	..	..	..	22(4)	5	--	60	10	22	20
GUA	04.3N	22	21--	..	..	..	..	23(1)	6	--	150	30	23	21
ETT	00.7S	22	0849	SC	0.0	12	10		-	--	--	--	25	13
ETT	00.7S	22	1215	SC	- 1.3	29	32		-	6	170	65	25	13
TRD	01.1S	22	1210	SC	- 1	35	- 47		-	3	167	84	23	21
PMG	18.3S	22	08--	..	..	..	..	23(2)	6	7	140	80	24	00
HER	33.6S	22	08--	..	..	..	..	23(1)	6	31	74	105	23	02
CAN	43.6S	22	08--	..	..	..	..	22(4,8) 23(1,2,3,4)	5	16	138	59	23	20
AMS	46.8S	22	09--	..	..	..	..	22(8) 23(1,5)	5	29	116	96	25	00
CZT	51.5S	22	06--	..	..	..	..	22(8) 23(1,5) 24(5)	5	29	136	96	25	09
PAF	57.2S	22	09--	..	..	..	..	23(1)	7	49	451	51	24	23
DRV	75.2S	22	0850	SC	20	16	- 42	23(1)	6	450	673	614	25	15
FRD	49.4N	29	0025	SC*	3	27	6	29(5)	6	26	197	69	03	01
BJI	28.8N	29	0025	SC	0.2	23	1	29(4)	7	18	230	32	29	24
KRC	16.4N	29	0024	SC	- 2.7	43	27	29(4,5,6)	7	66	260	100	31	21
UJJ	13.6N	29	0024	SC	- 1	29	- 8		-	7	247	27	30	21

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

OCTOBER 1994

Sta	Geomag Lat	Commencement Time Day	(UT)	Type	SC Amplitudes D (Min)	H (Gamma)	Z (Gamma)	Maximum 3-Hour K Index Day(3-Hour Periods)	K	Ranges D (Min)	H (Gamma)	Z (Gamma)	End Day	Hour (UT)
ABG	09.4N	29	0024	SC	- 1	32	- 12	29(1,3,4,5,6) 30(1,3,5,6,7)	7	6	268	34	30	21
HYB	07.6N	29	0025	SC	- 0.9	29	- 2	29(4,5,6)	7	6	288	33	31	22
GUA	04.3N	29	0025	SC*	.. -	27	- 9	29(4)	7	--	250	40	29	22
ETT	00.7S	29	0025	SC	- 1.0	25	26		-	8	317	99	30	22
TRD	01.1S	29	0024	SC	- 1	24	- 31		-	4	307	133	30	21
PMG	18.3S	29	0025	SC*	- 0.7*	32	27	29(4)	7	11	230	120	31	23
HER	33.6S	29	0026	SC	2	34	24	29(5,6)	6	45	228	178	31	03
CAN	43.6S	29	0026	SC*	- 2.7*	- 3	10	29(5)	7	28	200	89	29	18
AMS	46.8S	29	0025	SC	4	13	- 14	29(6)	6	45	208	208	03	00
CZT	51.5S	29	0625	SC	6	30	--	29(6)	8	76	460	244	04	03
PAF	57.2S	29	0025	SC*	- 5 *	8	--	29(5)	9	119	985	489	06	23
DRV	75.2S	29	0025	SC	-132	136	40	30(1)	7	648	847	936	07	09
BJI	28.8N	30	01--	..	..	..	..	30(3)	5	12	126	21	30	24
GUA	04.3N	30	01--	..	..	..	..	30(2)	5	--	150	20	30	16
CAN	43.6S	30	01--	..	..	..	..	30(3)	6	25	110	56	31	22
GUA	04.3N	31	07--	..	..	..	..	31(5)	5	--	60	10	31	17

Stations:

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

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

OCTOBER 1994

Storm Sudden Commencements (SSC)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
02	1712	C: BDV* COI* QUE* MPO AMS DRV	02	0432-0436	MPO
12	1727	B: WNG* HRB* QUE MPO	02	1434-1442	QUE
		C: BDV* GCK BJI HYB	05	0708-0714	MPO
		-; ETT	07	0309-0315	MPO
19	1452	A: TEN	07	0533-0539	MPO
		B: LER* ESK* WNG* HRB GCK AQU COI	12	0345-0349	MPO
		BJI QUE MPO	12	0439-0448	MPO
		C: NGK HAD* DOU BDV CLF SPT HYB CNB	17	1046-1054	BDV
		-: ETT	18	2036-2042	MPO
22	0849	A: COI	21	1058-1107	BDV
		B: LER* ESK* WNG HRB NAG BJI SPT TEN	22	1148-1154	MPO
		C: HAD* BDV CLF GCK EBR HYB MPO DRV	22	1705-1709	MPO
		-: ETT	22	1751-1756	MPO
29	0025	A: HRB* NAG* GCK AQU COI BJI SPT	25	0409-0415	MPO
		QUE TEN LNP HYB HER	30	0930-0939	QUE
		B: LER ESK WNG* NGK DOU* BDV* EBR*			
		FRD* KAK* KNY* CNB* AMS PAF*			
		C: CLF DRV			
		-: ETT			

REPORTING OBSERVATORIES (up to the 2nd of December):
SOD DOB NUR LER ESK WNG NGK HAD DOU BDV CLF HRB NAG GCK MMB AQU EBR COI BJI SPT FRD KAK KNY QUE TEN LNP HYB ETT MPO HER CNB AMS CZT PAF DRV

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

WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS

The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."