



Solar-Geophysical Data prompt reports

Data for February and March 2001

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

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NATIONAL ENVIRONMENTAL SATELLITE,
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NATIONAL GEOPHYSICAL
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Data for February and March 2001

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Boulder, Colorado

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SOLAR-GEOPHYSICAL DATA

Number 680

(Issued in Two Parts)

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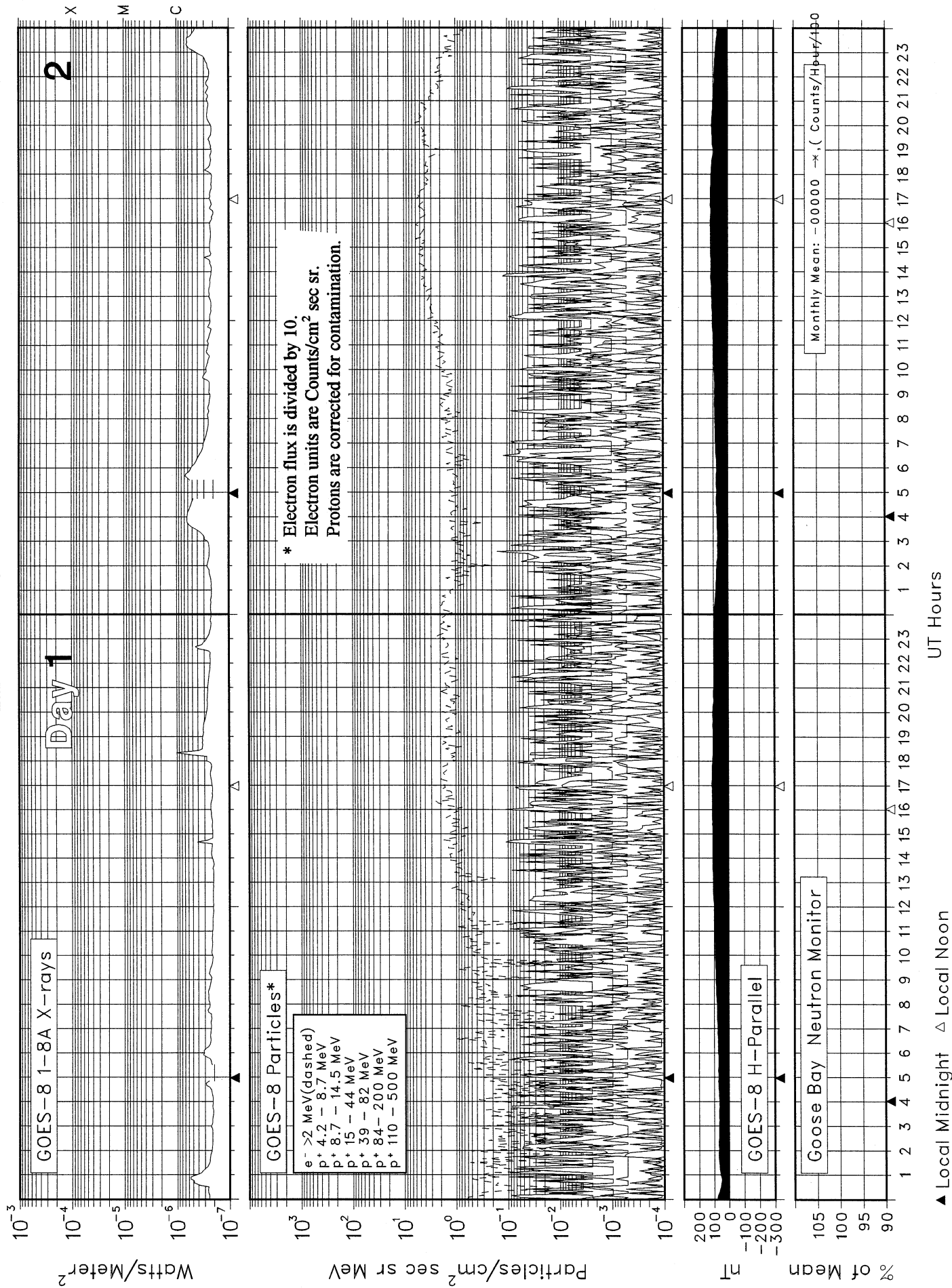
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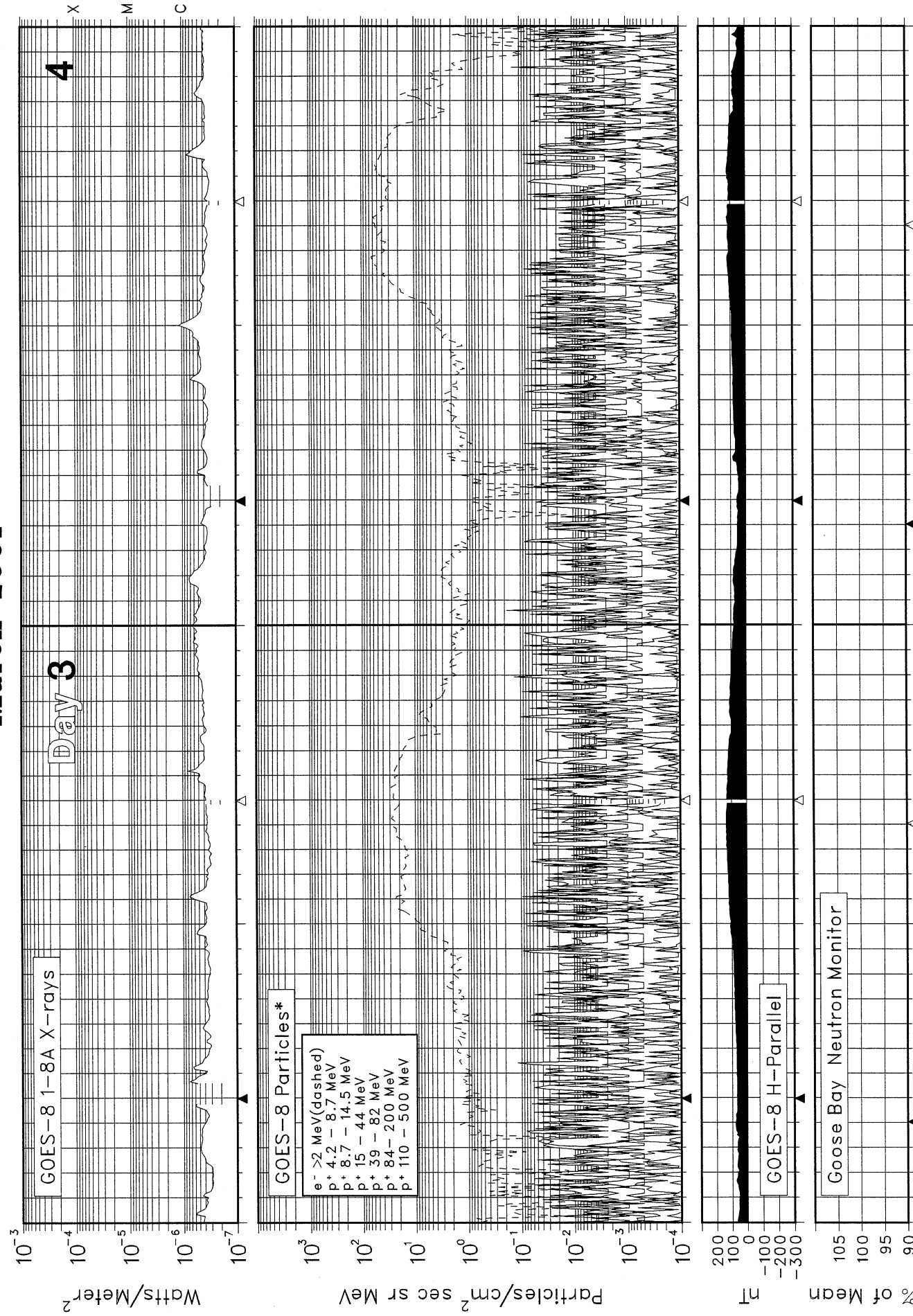
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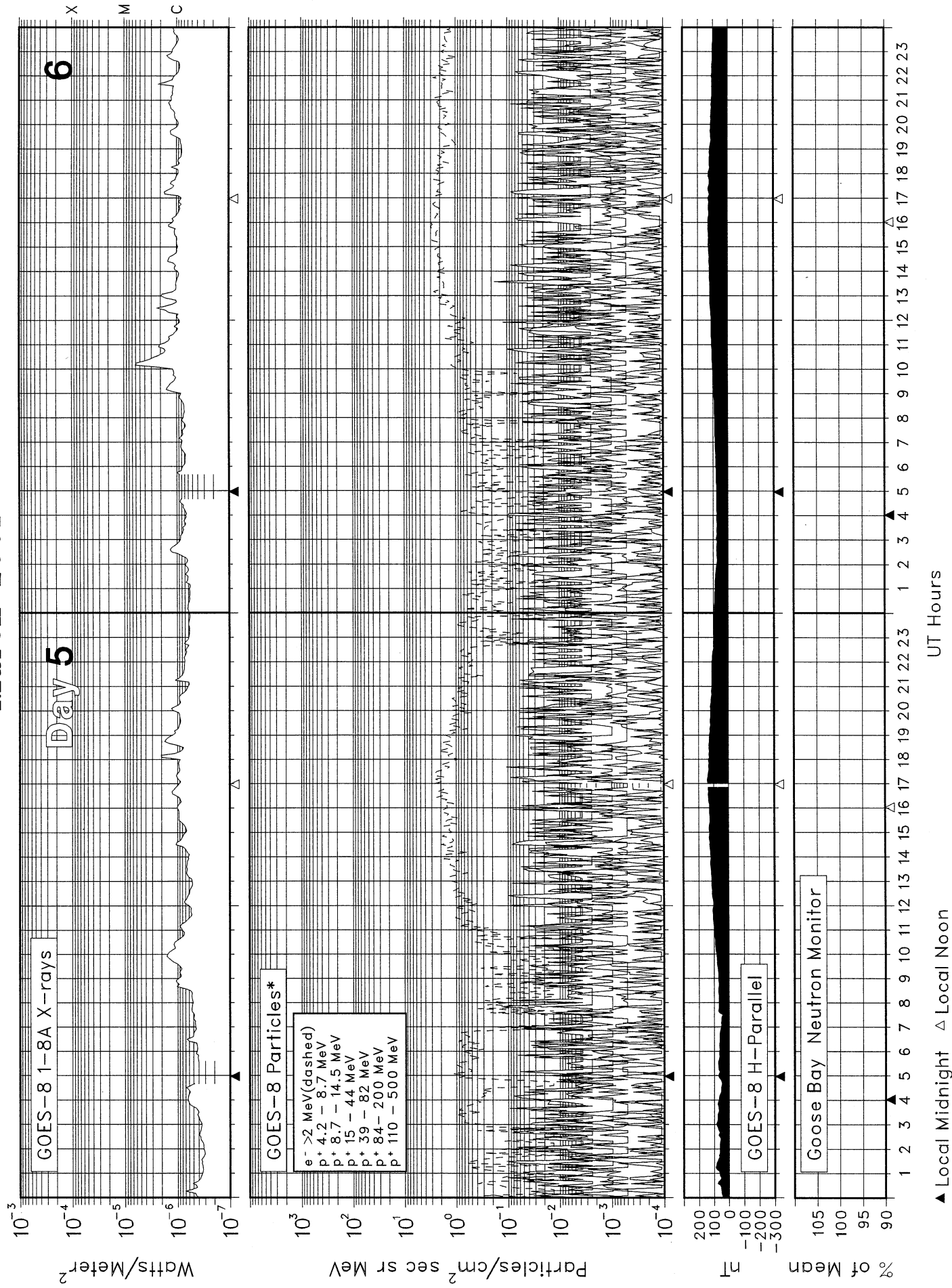
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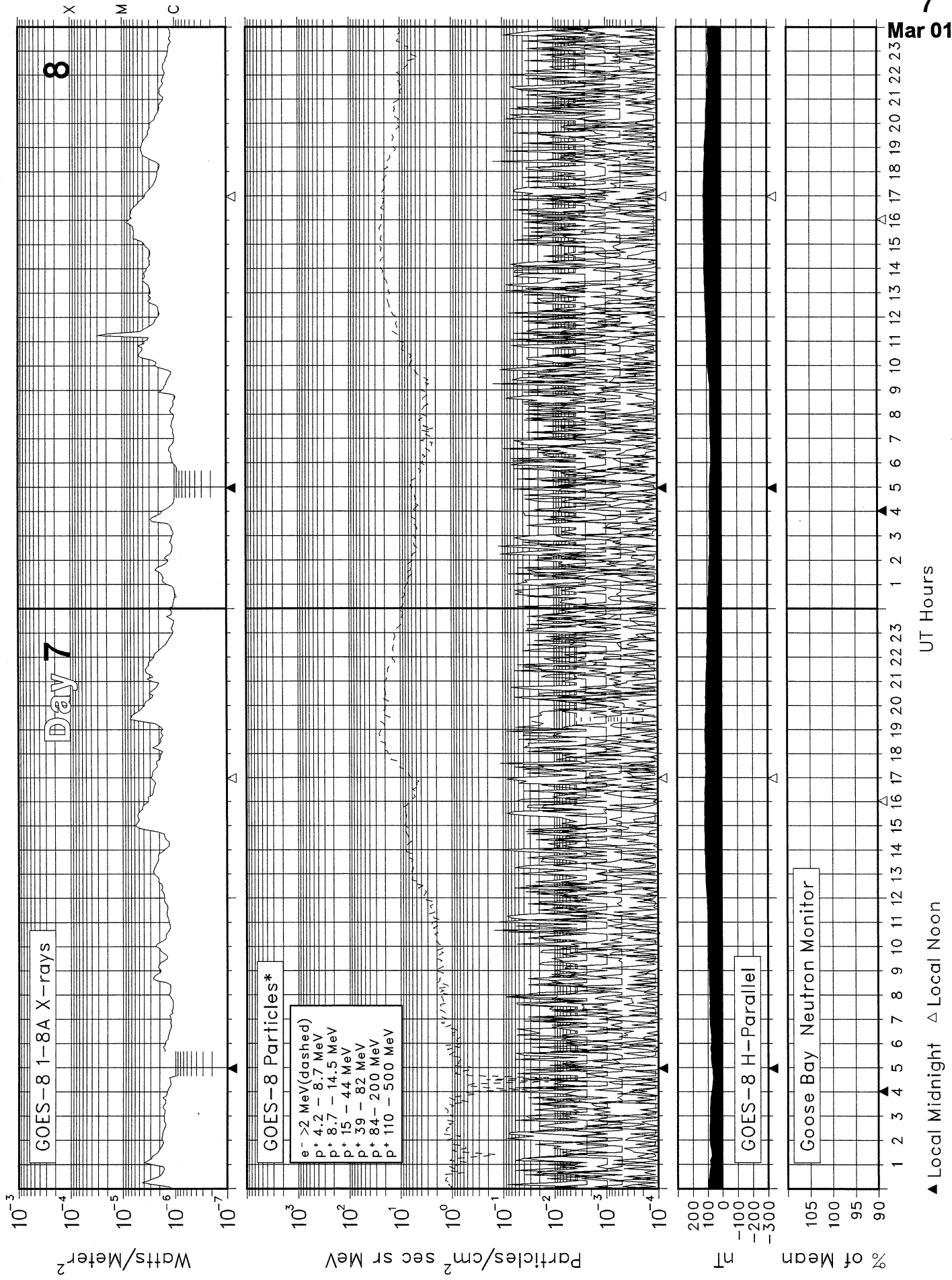
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Mar 01



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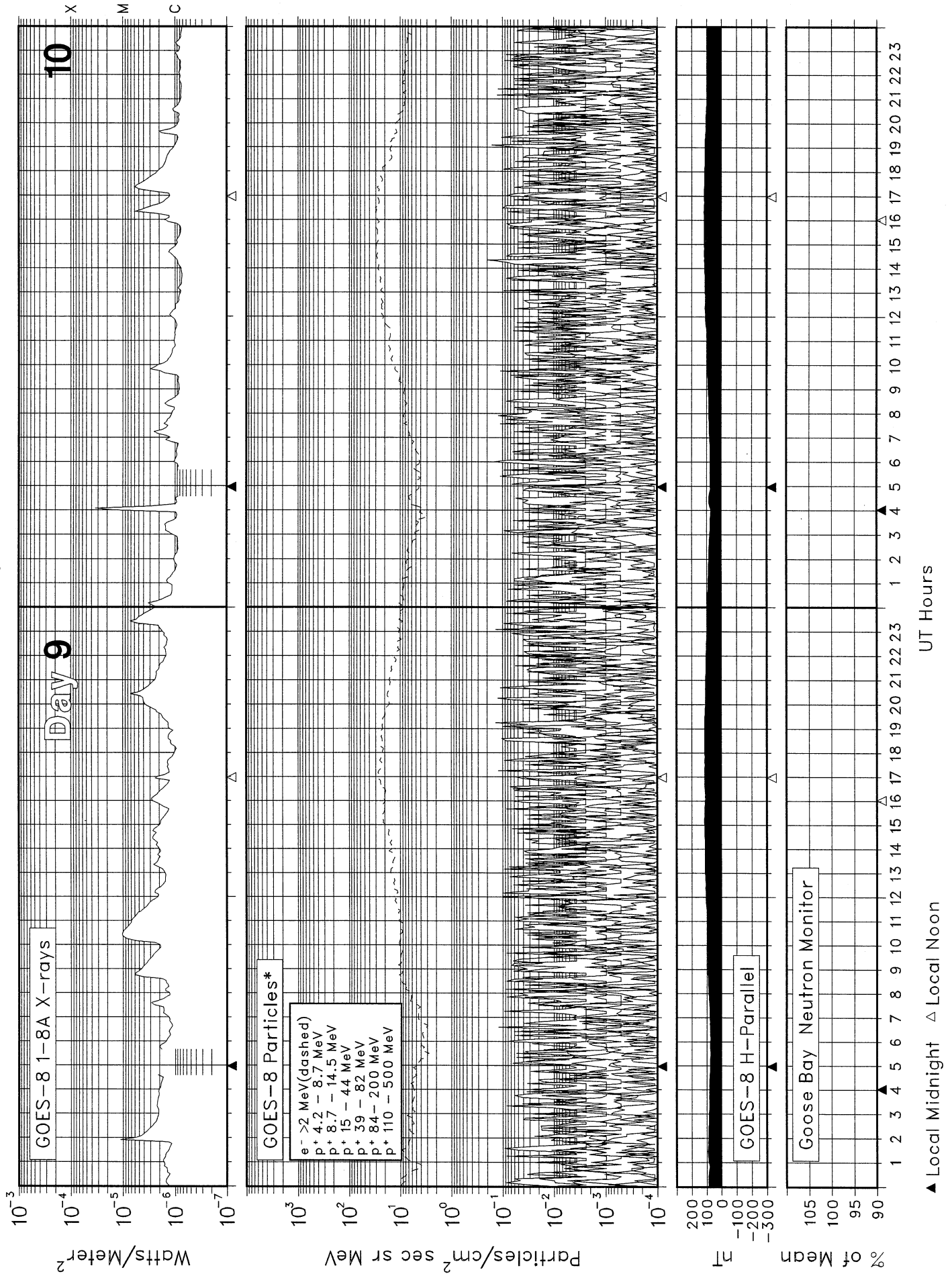
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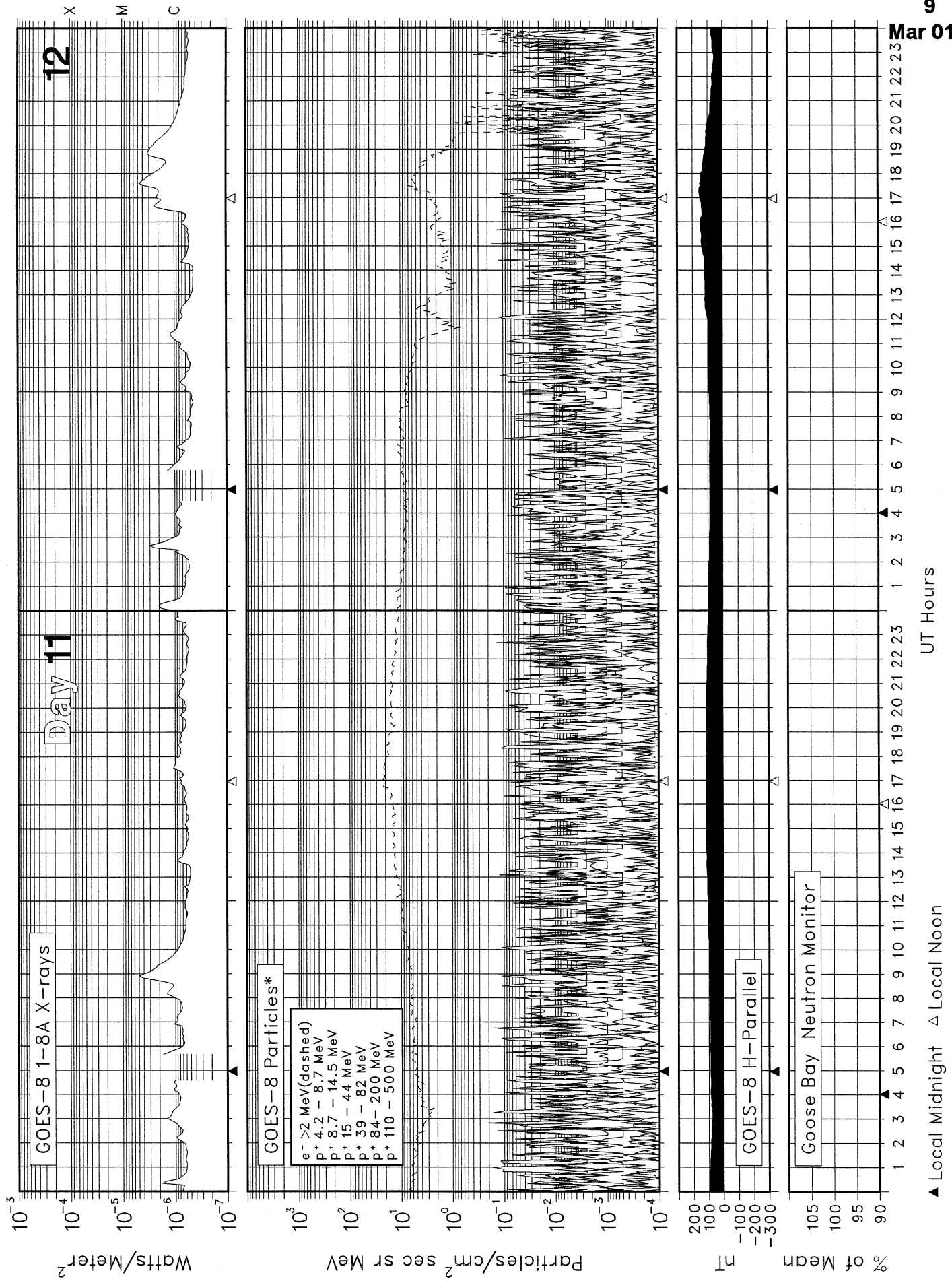
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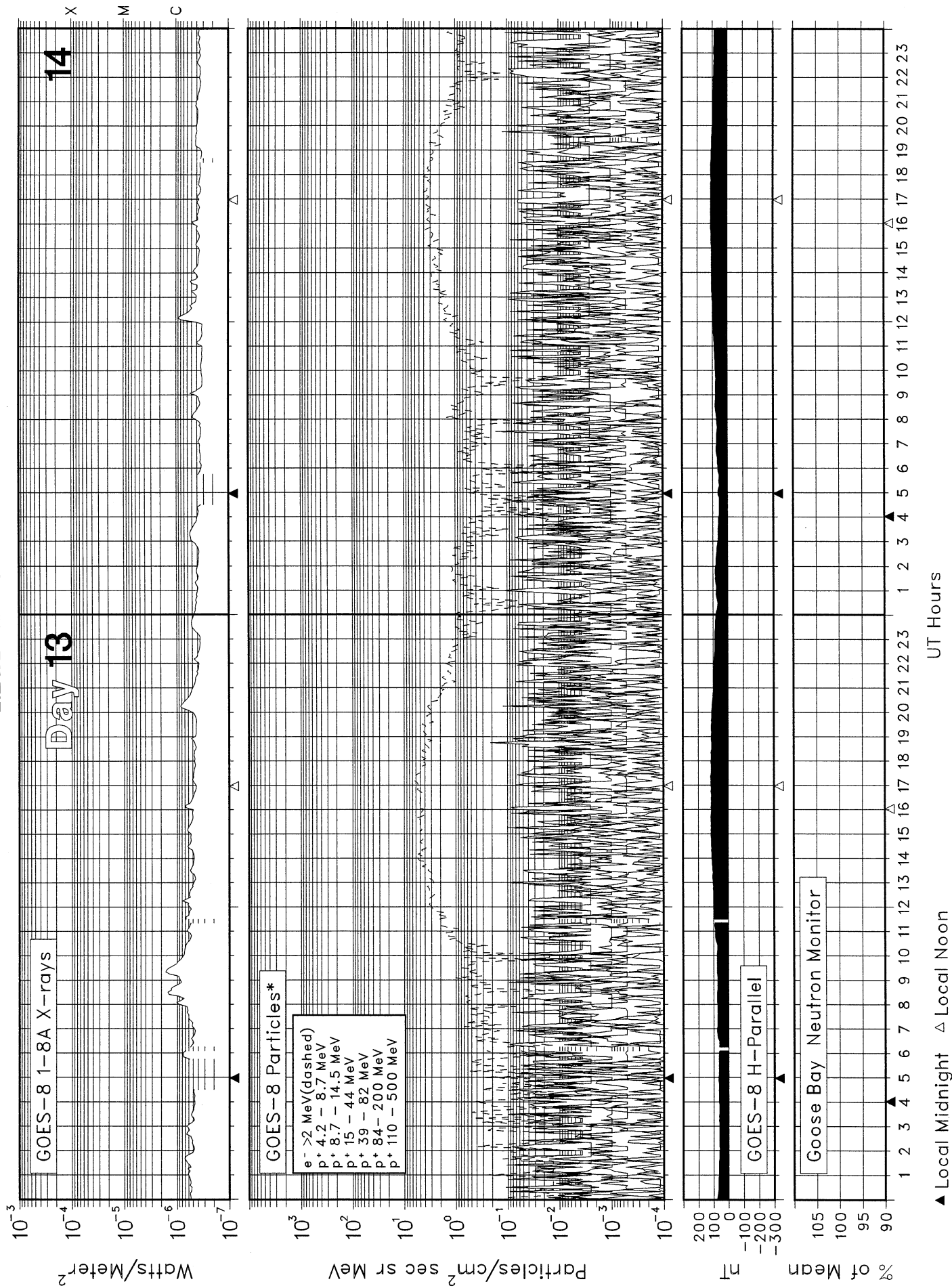
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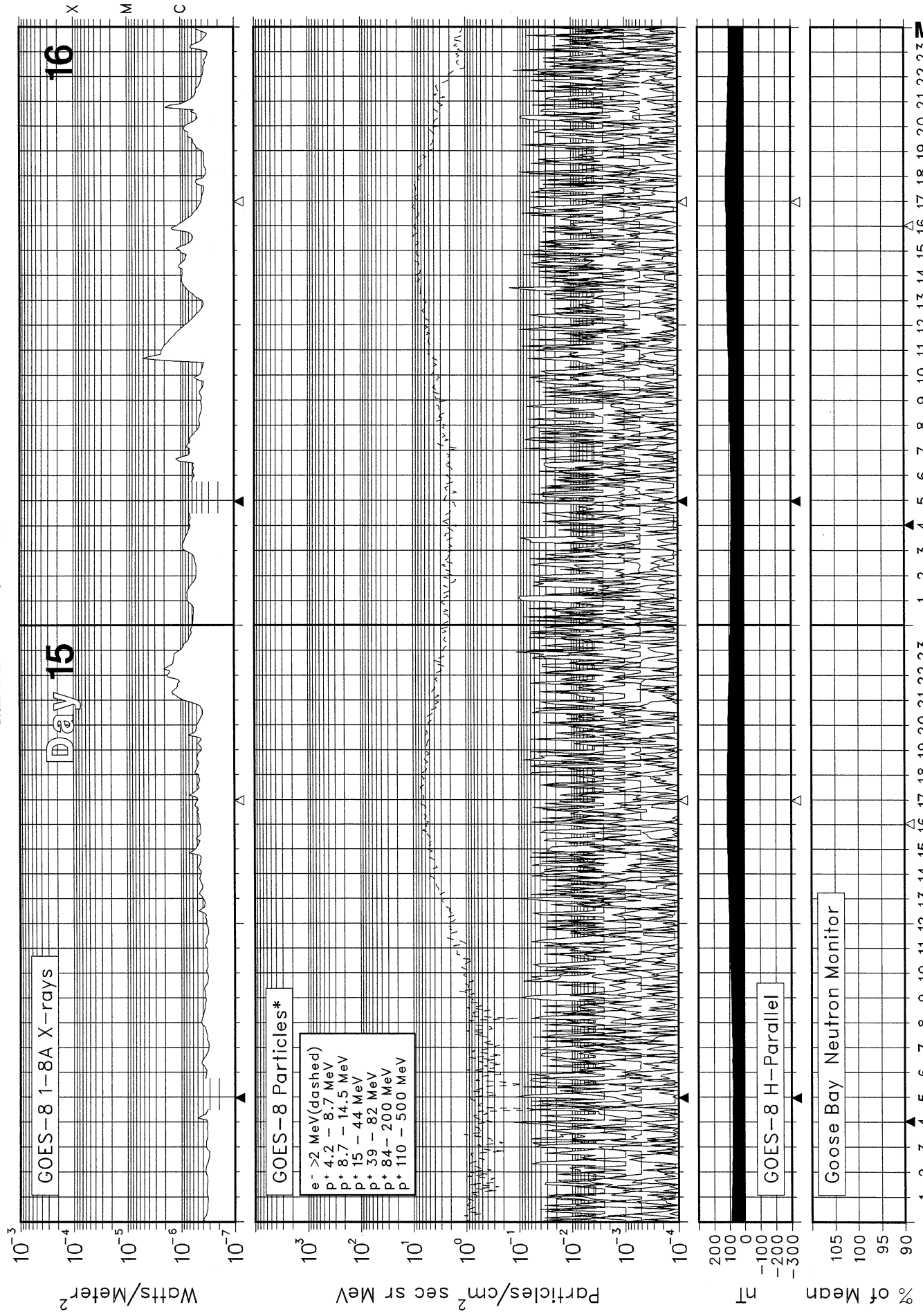
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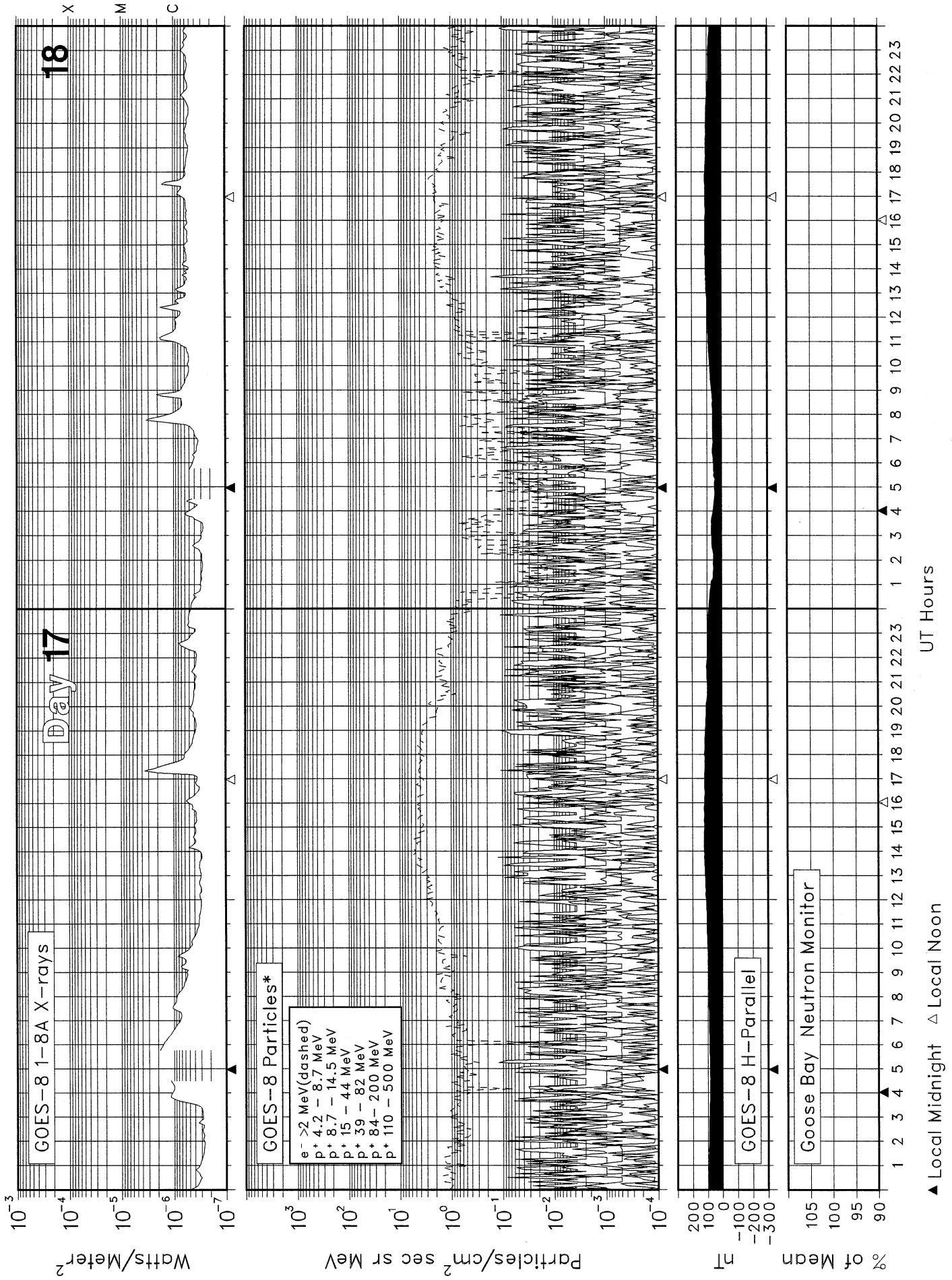
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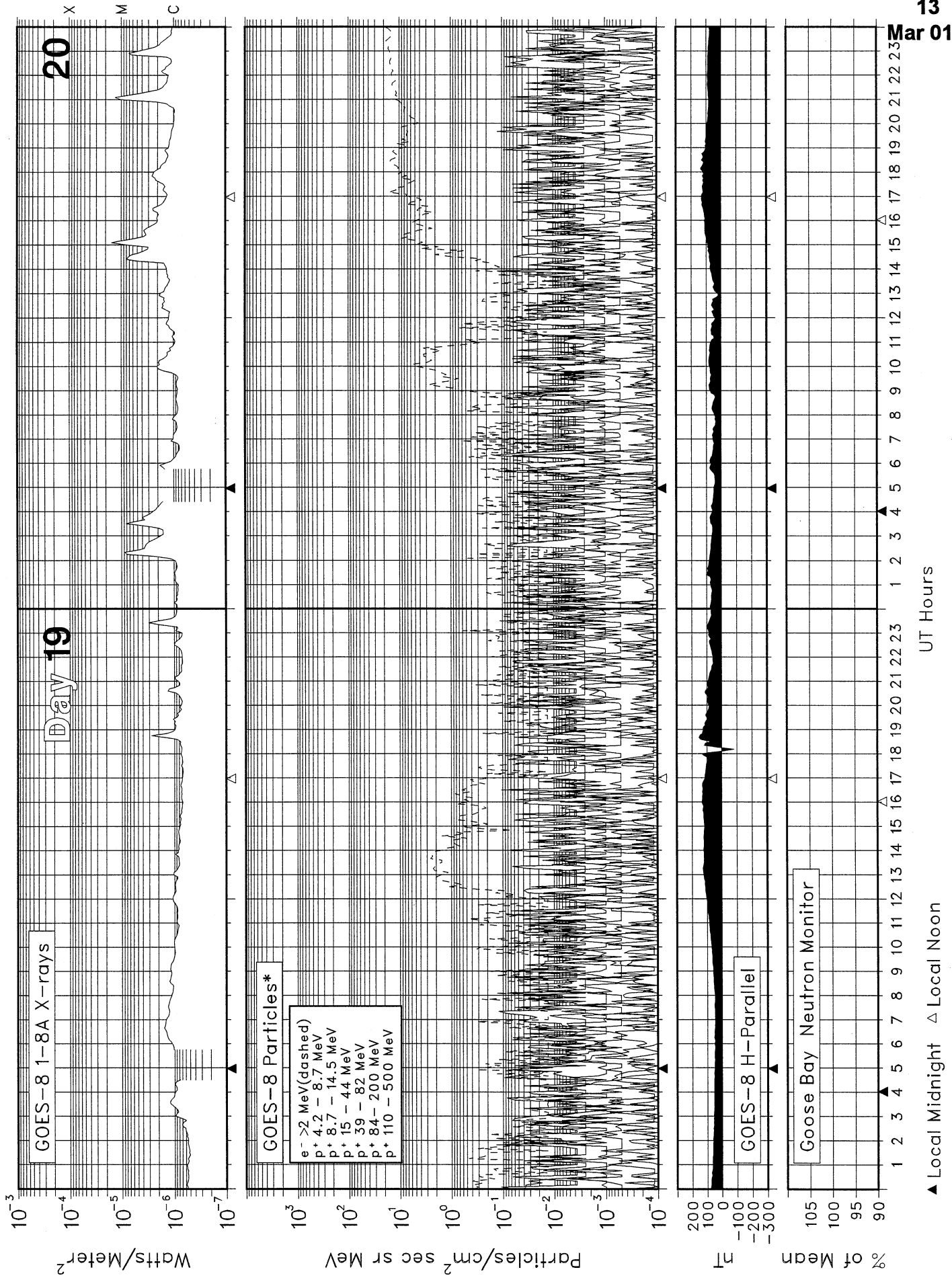
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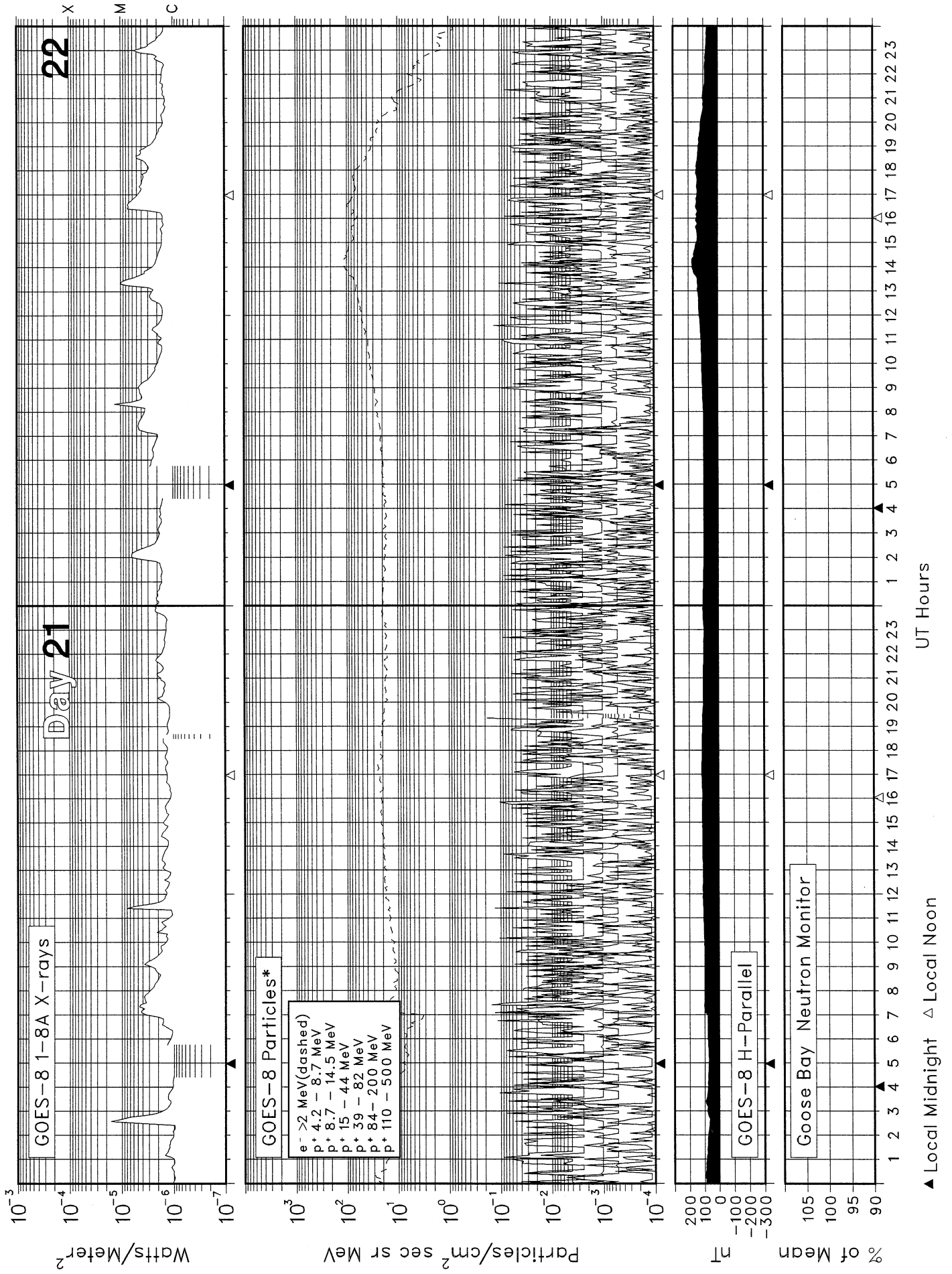


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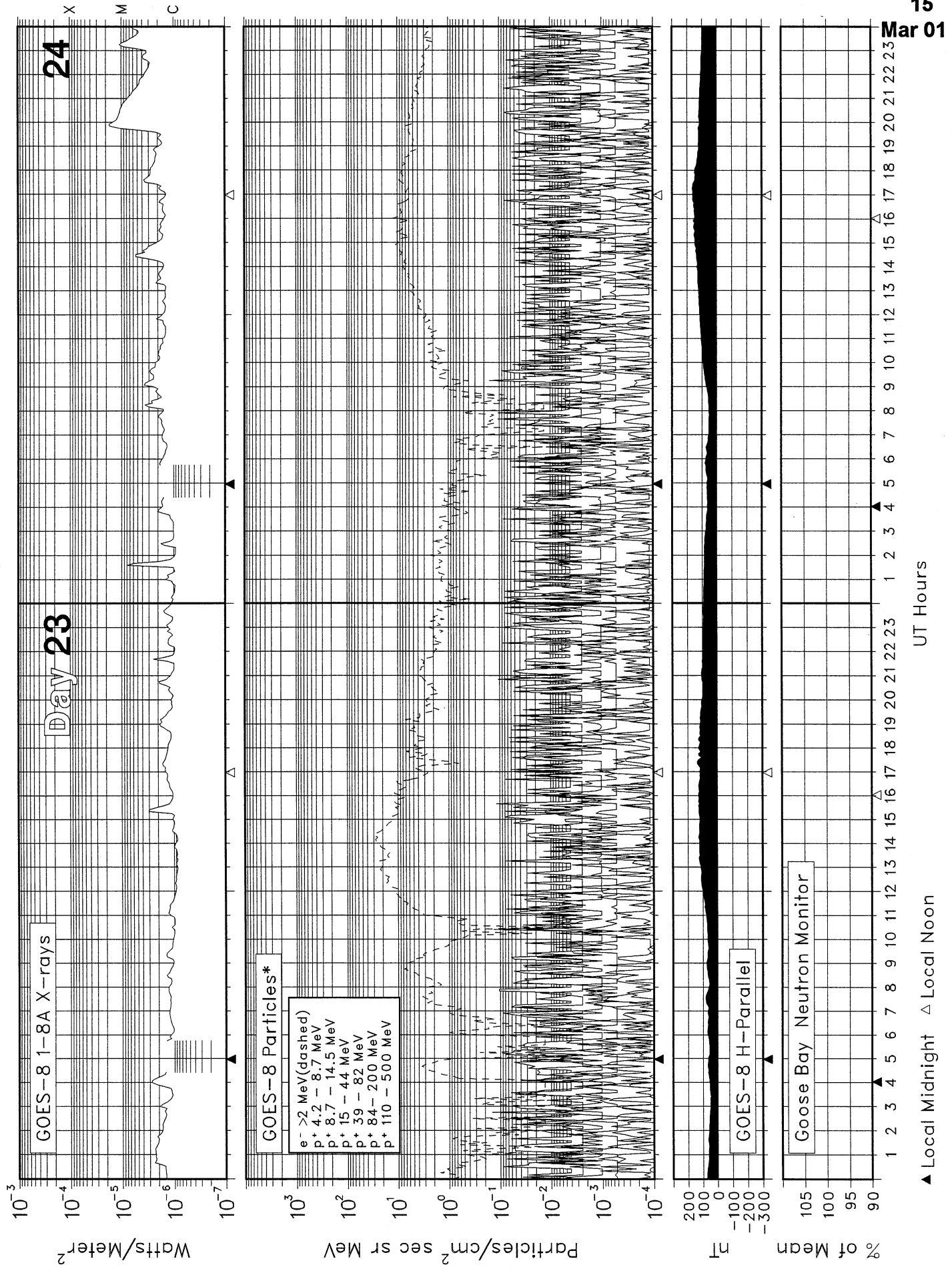


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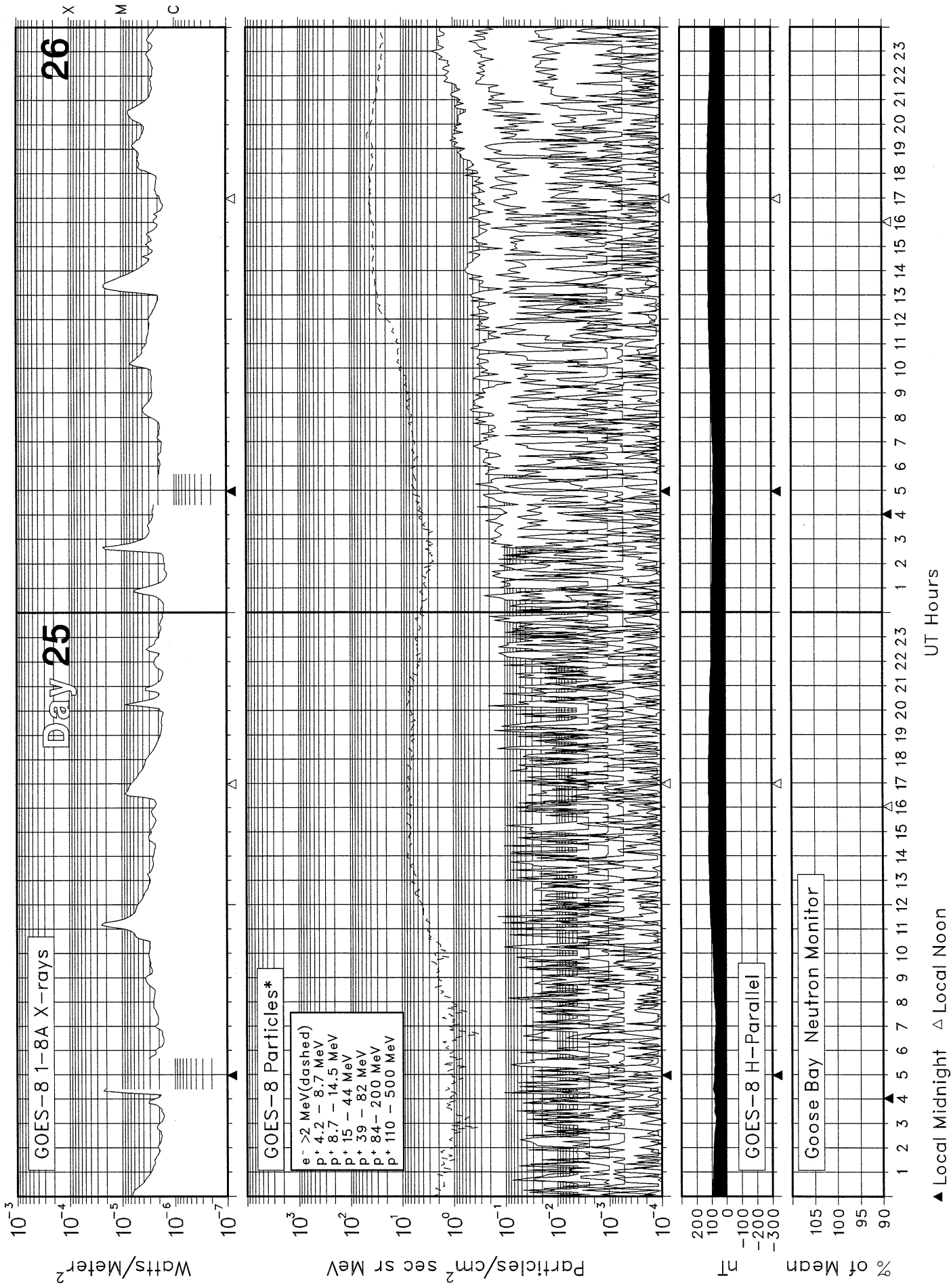
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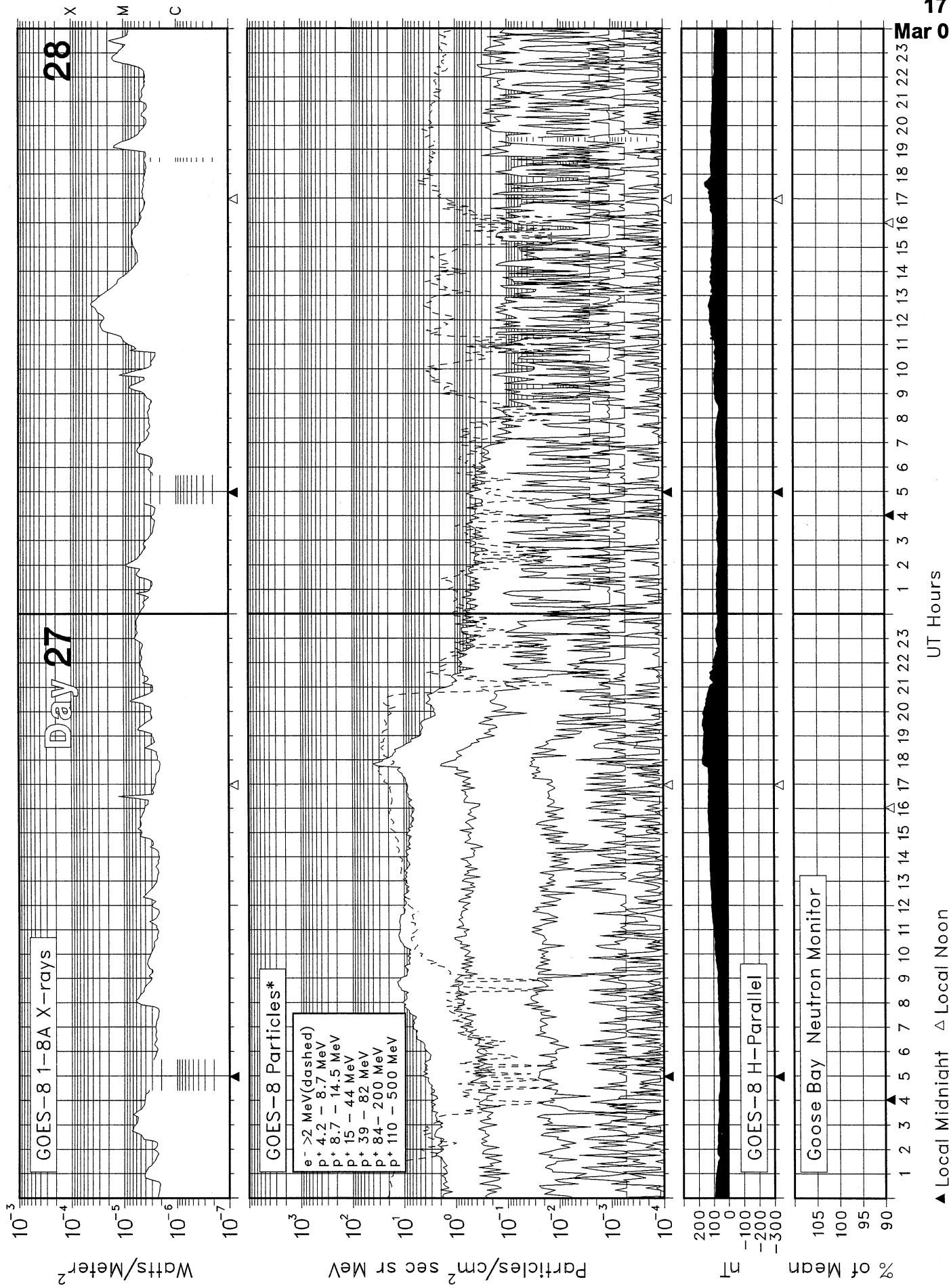
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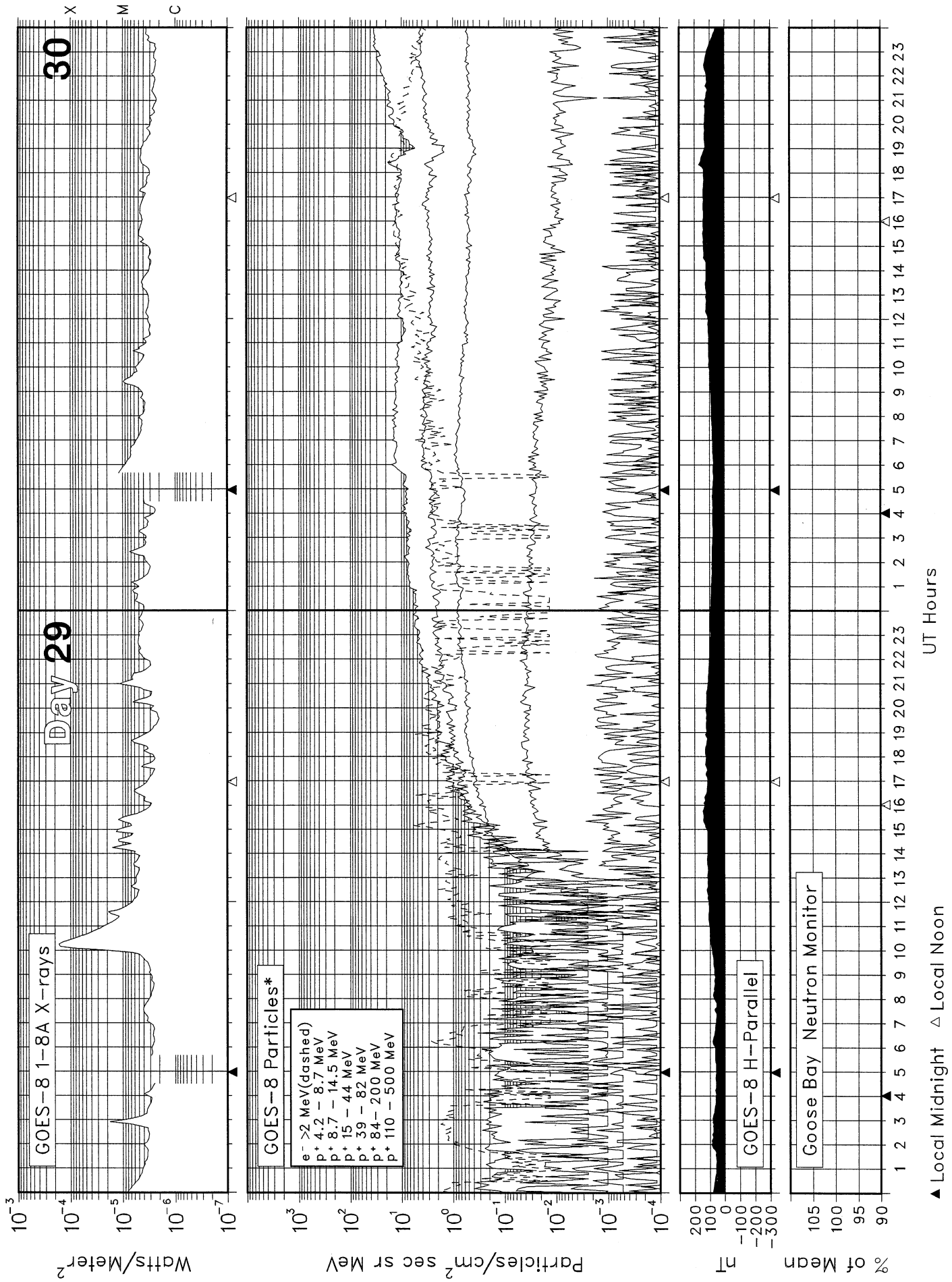
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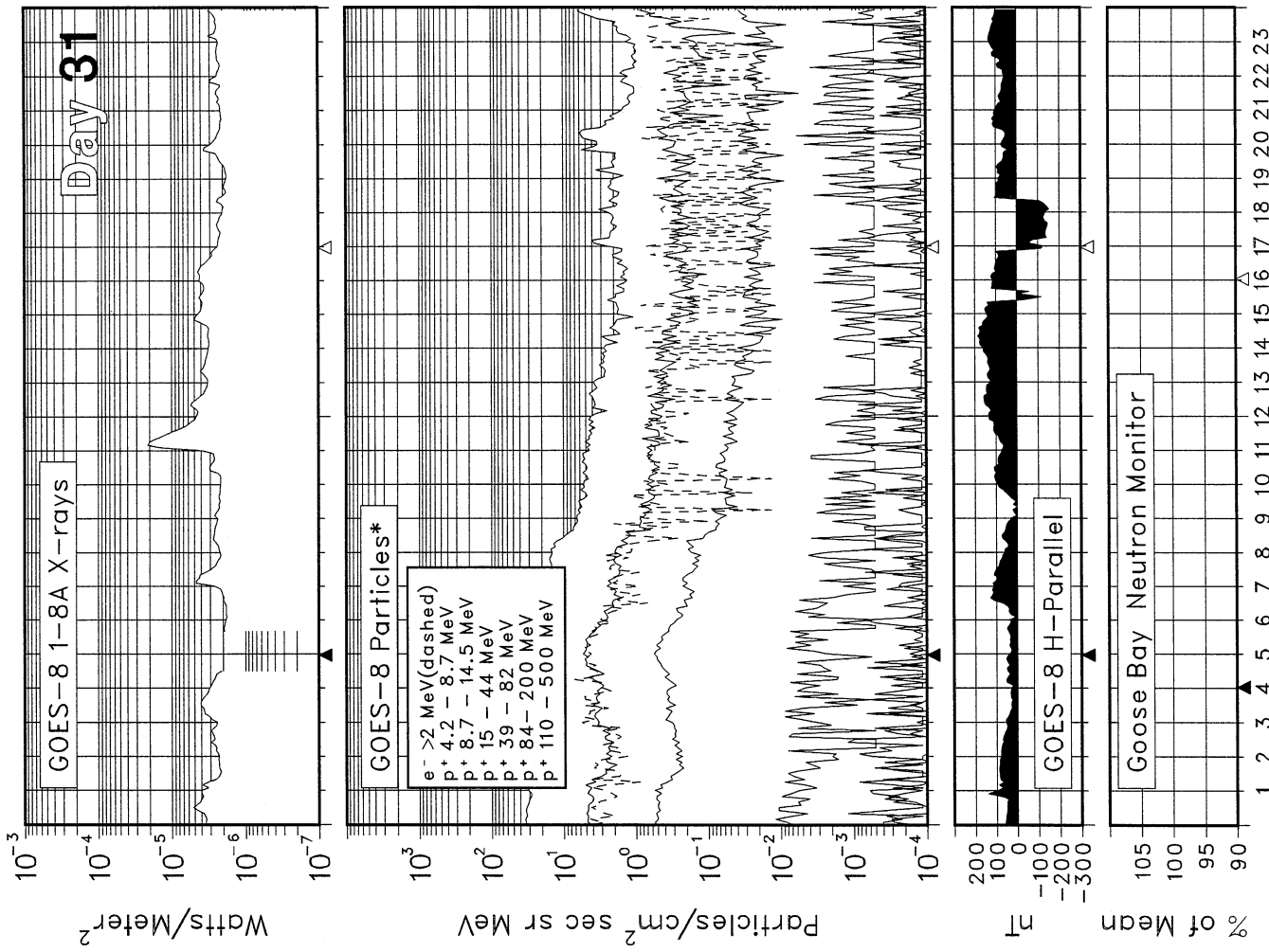
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SOLAR-TERRESTRIAL ENVIRONMENT

March 2001



* Electron flux is divided by 10.
 Electron units are Counts/cm² sec sr.
 Protons are corrected for contamination.

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Mar 01

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

MARCH 2001

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location		Flares			Date of Fcst	Region Fcst(1)	Goadvice(1)
							Lat	Lon	Opt	M	X			
060	01	28	88	132	7	9358	S10	W86	0	0	0	01	Q	SOL: Eruptive
						9359	N13	W31	0	0	0	01	E	MAG: Quiet
						9360	S11	W37	0	0	0	01	Q	PRO: Quiet
						9364	S10	W16	0	0	0	01	Q	
						9365	S08	E37	0	0	0	01	Q	
061	02	01	59	131	6	9359	N12	W46	0	0	0	02	Q	SOL: Eruptive
						9360	S10	W51	0	0	0	02	Q	MAG: Quiet
						9364	S10	W30	1	0	0	02	Q	PRO: Quiet
						9365	S07	E24	0	0	0	02	Q	
062	03	02	77	130	10	9359	N11	W61	0	0	0	03	Q	SOL: Quiet
						9360	S11	W63	0	0	0	03	Q	MAG: Quiet
						9365	S08	E09	0	0	0	03	Q	PRO: Quiet
						9366	S23	E38	0	0	0	03	Q	
						9367	N12	E48	0	0	0	03	Q	
						9368	N27	E48	0	0	0	03	Q	
063	04	03	138	140	18	9359	N12	W70	0	0	0	04	Q	SOL: Quiet
						9364	S10	W51	0	0	0	04	Q	MAG: Quiet
						9365	S08	W04	0	0	0	04	Q	PRO: Quiet
						9366	S25	E25	1	0	0	04	E	
						9367	N10	E36	1	0	0	04	Q	
						9368	N26	E35	0	0	0	04	Q	
						9369	N18	W49	6	0	0	04	Q	
						9370	N09	E51	0	0	0	04	Q	
064	05	04	157	141	16	9359	N15	W83	0	0	0	05	Q	SOL: Eruptive
						9364	S11	W68	0	0	0	05	Q	MAG: Quiet
						9365	S09	W18	0	0	0	05	Q	PRO: Quiet
						9366	S24	E12	1	0	0	05	E	
						9367	N10	E22	0	0	0	05	Q	
						9368	N25	E20	0	0	0	05	Q	
						9369	N17	W64	0	0	0	05	Q	
						9370	N10	E42	0	0	0	05	Q	
						9371	N21	W39	0	0	0	05	Q	
						065	06	05	143	156	19	9364	S10	W82	1	0	0	06	Q	SOL: Eruptive
9365	S10	W34	0	0	0							06	Q	MAG: Quiet
9366	S25	E00	0	0	0							06	E	PRO: Quiet
9367	N10	E09	0	0	0							06	Q	
9368	N26	E08	0	0	0							06	Q	
9369	N17	W76	2	0	0							06	Q	
9370	N09	E28	0	0	0							06	Q	
9371	N21	W51	0	0	0							06	Q	
066	07	06	131	158	6	9365	S10	W49	0	0	0	07	Q	SOL: Eruptive
						9366	S25	W14	0	0	0	07	Q	MAG: Quiet
						9367	N09	W05	0	0	0	07	Q	PRO: Quiet
						9368	N25	W08	5	0	0	07	E	
						9369	N17	W88	0	0	0	07	Q	
						9370	N10	E14	0	0	0	07	Q	
						9371	N20	W64	2	0	0	07	E	
067	08	07	102	177	11	9365	S10	W62	1	0	0	08	Q	SOL: Eruptive
						9366	S24	W28	0	0	0	08	Q	MAG: Quiet
						9367	N09	W19	0	0	0	08	Q	PRO: Quiet
						9368	N25	W20	2	0	0	08	E	
						9370	N09	E00	1	0	0	08	E	
						9371	N21	W79	6	0	0	08	E	
068	09	08	98	167	7	9365	S10	W75	0	0	0	09	Q	SOL: Eruptive
						9366	S25	W41	0	0	0	09	Q	MAG: Quiet
						9368	N26	W33	1	1	0	09	E	PRO: Quiet
						9370	N10	W12	1	0	0	09	E	
						9371	N22	W86	0	0	0	09	E	

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

MARCH 2001

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location		Flares			Date of Fcst	Region Fcst(1)	Geoadvice(1)
							Lat	Lon	Opt	M	X			
069	10	09	113	161	5	9365	S12	W90	2	0	0	10	Q	SOL: Active
						9366	S24	W48	0	0	0	10	Q	MAG: Quiet
						9368	N26	W44	1	1	0	10	E	PRO: Quiet
						9370	N11	W24	1	0	0	10	E	
						9372	S37	W50	5	0	0	10	E	
						9373	S07	E71	0	0	0	10	Q	
070	11	10	131	160	5	9368	N24	W59	3	1	0	11	E	SOL: Active
						9370	N10	W38	0	0	0	11	E	MAG: Quiet
						9372	S36	W64	11	0	0	11	E	PRO: Quiet
						9373	S07	E61	2	0	0	11	E	
						9374	S19	E50	0	0	0	11	Q	
						9375	S16	W46	0	0	0	11	Q	
071	12	11	139	158	5	9368	N25	W73	2	0	0	12	E	SOL: Active
						9370	N10	W51	0	0	0	12	Q	MAG: Quiet
						9372	S36	W76	0	0	0	12	E	PRO: Quiet
						9373	S08	E48	0	0	0	12	E	
						9374	S18	E38	0	0	0	12	Q	
						9375	S16	W58	0	0	0	12	Q	
						9376	S13	E72	2	0	0	12	E	
						9377	S10	E01	0	0	0	12	Q	
072	13	12	174	158	10	9368	N24	W84	0	0	0	13	Q	SOL: Eruptive
						9370	N10	W65	0	0	0	13	Q	MAG: Quiet
						9372	S35	W88	0	0	0	13	Q	PRO: Quiet
						9373	S08	E34	2	0	0	13	E	
						9374	S18	E28	0	0	0	13	Q	
						9375	S16	W71	0	0	0	13	Q	
						9376	S15	E57	5	0	0	13	E	
						9377	S18	W13	0	0	0	13	Q	
						9378	N24	W32	0	0	0	13	Q	
						9379	N31	E39	0	0	0	13	Q	
						9380	S09	E66	0	0	0	13	Q	
073	14	13	110	147	9	9370	N11	W82	0	0	0	14	Q	SOL: Eruptive
						9373	S07	E20	1	0	0	14	E	MAG: Quiet
						9376	S13	E46	0	0	0	14	E	PRO: Quiet
						9379	N31	E27	0	0	0	14	Q	
						9380	S10	E53	0	0	0	14	Q	
						9381	S19	E37	0	0	0	14	Q	
074	15	14	159	142	10	9373	S08	E07	1	0	0	15	E	SOL: Eruptive
						9374	S17	E03	0	0	0	15	Q	MAG: Quiet
						9376	S14	E34	0	0	0	15	Q	PRO: Quiet
						9380	S09	E40	0	0	0	15	Q	
						9381	S17	E24	0	0	0	15	Q	
						9382	N09	W74	0	0	0	15	Q	
						9383	S09	W44	0	0	0	15	Q	
						9384	N10	E02	0	0	0	15	Q	
075	16	15	126	136	3	9373	S07	W06	7	0	0	16	E	SOL: Eruptive
						9376	S14	E21	0	0	0	16	Q	MAG: Quiet
						9381	S17	E09	0	0	0	16	Q	PRO: Quiet
						9383	S10	W58	0	0	0	16	Q	
						9384	N10	W11	2	0	0	16	Q	
076	17	16	86	140	4	9373	S07	W20	4	0	0	17	E	SOL: Eruptive
						9376	S14	E09	0	0	0	17	Q	MAG: Quiet
						9383	S10	W70	0	0	0	17	Q	PRO: Quiet
						9384	N11	W23	1	0	0	17	E	
077	18	17	90	134	4	9373	S07	W34	1	0	0	18	E	SOL: Eruptive
						9376	S13	W04	0	0	0	18	Q	MAG: Quiet
						9383	S10	W82	0	0	0	18	Q	PRO: Quiet
						9384	N12	W35	1	0	0	18	Q	
						9385	S13	E42	0	0	0	18	Q	

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Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location		Flares			Date of Fcst	Region Fcst(1)	Geoadvice(1)
							Lat	Lon	Opt	M	X			
078	19	18	91	140	7	9373	S07	W43	9	0	0	19	E	SOL: Eruptive
						9380	S08	W10	0	0	0	19	Q	MAG: Quiet
						9384	N11	W49	1	0	0	19	E	PRO: Quiet
						9385	S11	E27	0	0	0	19	Q	
						9386	N03	W11	0	0	0	19	Q	
079	20	19	85	147	19	9373	S07	W58	3	0	0	20	E	SOL: Eruptive
						9380	S12	W29	0	0	0	20	Q	MAG: Quiet
						9384	N13	W62	1	0	0	20	E	PRO: Quiet
						9386	N04	W27	0	0	0	20	Q	
						9387	N09	E59	0	0	0	20	Q	
080	21	20	98	153	52	9373	S07	W71	5	3	0	21	A	SOL: Eruptive
						9384	N14	W74	1	1	0	21	A	MAG: Active
						9387	N10	E47	0	0	0	21	A	PRO: Quiet
						9388	N14	W49	0	0	0	21	A	
						9389	S12	E75	0	0	0	21	A	
						9390	N14	E73	1	1	0	21	A	
081	22	21	136	159	7	9373	S06	W81	2	1	0	22	A	SOL: Eruptive
						9380	S08	W51	0	0	0	22	A	MAG: Quiet
						9384	N18	W81	0	0	0	22	A	PRO: Quiet
						9387	N09	E34	0	0	0	22	A	
						9388	N14	W62	0	0	0	22	A	
						9389	S13	E66	1	0	0	22	A	
						9390	N14	E60	1	0	0	22	A	
						9391	S04	W15	0	0	0	22	A	
						9392	N20	W17	0	0	0	22	A	
082	23	22	129	183	13	9373	S05	W92	0	0	0	23	A	SOL: Eruptive
						9376	S14	W73	0	0	0	23	A	MAG: Quiet
						9387	N08	E21	0	0	0	23	A	PRO: Quiet
						9388	N14	W75	0	0	0	23	A	
						9389	S13	E54	0	0	0	23	A	
						9390	N15	E46	3	1	0	23	A	
						9392	N19	W29	0	0	0	23	A	
083	24	23	145	180	20	9376	S13	W84	2	0	0	24	Q	SOL: Active
						9385	S12	W39	0	0	0	24	Q	MAG: Active
						9387	N09	E07	1	0	0	24	Q	PRO: Quiet
						9389	S13	E39	1	0	0	24	Q	
						9390	N16	E34	3	0	0	24	E	
						9392	N20	W45	0	0	0	24	Q	
						9393	N20	E65	0	0	0	24	E	
						9394	N10	E61	0	0	0	24	Q	
						9395	S12	E72	0	0	0	24	Q	
084	25	24	204	219	15	9387	N08	W07	0	0	0	25	Q	SOL: Active
						9389	S13	E26	3	0	0	25	Q	MAG: Active
						9390	N15	E19	3	1	0	25	E	PRO: Quiet
						9392	N18	W58	0	0	0	25	Q	
						9393	N20	E54	12	1	0	25	E	
						9394	N09	E48	0	0	0	25	Q	
						9395	S12	E63	0	0	0	25	Q	
						9396	S06	W04	0	0	0	25	Q	
						9397	S09	E76	7	1	0	25	Q	
						9398	N21	E02	0	0	0	25	Q	
						9399	S29	E03	0	0	0	25	Q	
						9400	N09	E35	0	0	0	25	Q	
085	26	25	276	217	8	9387	N08	W23	0	0	0	26	Q	SOL: Active
						9389	S12	E13	0	0	0	26	E	MAG: Active
						9390	N14	E06	6	0	0	26	E	PRO: Quiet
						9392	N18	W68	0	0	0	26	Q	
						9393	N20	E39	3	1	0	26	E	
						9394	N09	E35	0	0	0	26	Q	

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Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location		Flares			Date of Fcst	Region Fcst(1)	Geoadvice(1)
							Lat	Lon	Opt	M	X			
						9395	S12	E49	0	0	0	26	Q	
						9396	S06	W17	0	0	0	26	Q	
						9397	S12	E61	2	0	0	26	Q	
						9398	N20	W10	0	0	0	26	Q	
						9399	S30	W09	0	0	0	26	Q	
						9400	N11	E20	0	0	0	26	Q	
						9401	N22	E55	4	1	0	26	Q	
						9402	N17	E16	1	0	0	26	Q	
086	27	26	339	264	7	9387	N09	W38	0	0	0	27	Q	SOL: Active
						9389	S13	W02	2	0	0	27	E	MAG: Quiet
						9390	N15	W08	1	0	0	27	E	PRO: Quiet
						9392	N18	W80	0	0	0	27	Q	
						9393	N18	E27	10	1	0	27	E	
						9394	N09	E22	0	0	0	27	Q	
						9395	S12	E35	0	0	0	27	Q	
						9396	S06	W32	3	0	0	27	E	
						9397	S10	E47	1	0	0	27	E	
						9398	N21	W26	0	0	0	27	Q	
						9399	S29	W22	0	0	0	27	Q	
						9400	N10	E05	0	0	0	27	Q	
						9401	N22	E43	6	1	0	27	E	
						9402	N16	E02	1	0	0	27	Q	
						9403	S13	E62	0	0	0	27	Q	
087	28	27	291	273	17	9387	N09	W52	0	0	0	28	Q	SOL: Active
						9389	S12	W11	1	0	0	28	Q	MAG: Active
						9390	N14	W22	3	0	0	28	Q	PRO: Quiet
						9393	N17	E11	9	0	0	28	E	
						9394	N09	E09	0	0	0	28	Q	
						9395	S12	E21	0	0	0	28	Q	
						9396	S06	W44	3	0	0	28	E	
						9397	S09	E35	3	0	0	28	Q	
						9399	S29	W35	0	0	0	28	Q	
						9400	N10	W10	0	0	0	28	Q	
						9401	N22	E30	9	1	0	28	Q	
						9402	N14	W11	1	0	0	28	Q	
						9403	S12	E48	6	0	0	28	Q	
						9404	S06	E66	0	0	0	28	Q	
088	29	28	352	274	25	9387	N08	W66	0	0	0	29	Q	SOL: Active
						9389	S12	W34	0	0	0	29	Q	MAG: Minor
						9390	N13	W38	0	0	0	29	Q	PRO: Quiet
						9393	N13	E00	11	6	0	29	E	
						9394	N09	W05	0	0	0	29	Q	
						9395	S13	E08	0	0	0	29	Q	
						9396	S06	W59	0	0	0	29	Q	
						9397	S09	E19	2	0	0	29	E	
						9399	S30	W49	0	0	0	29	Q	
						9400	N10	W29	0	0	0	29	Q	
						9401	N22	E17	3	0	0	29	Q	
						9402	N18	W25	2	0	0	29	Q	
						9403	S13	E36	1	0	0	29	Q	
						9404	S05	E50	0	0	0	29	Q	
						9405	S13	W20	0	0	0	29	Q	
						9406	N25	E67	0	0	0	29	Q	
						9407	N11	E64	0	0	0	29	Q	
						9408	S08	E38	1	0	0	29	Q	
089	30	29	315	262	22	9387	N08	W80	0	0	0	30	Q	SOL: Active
						9389	S12	W50	0	0	0	30	Q	MAG: Minor
						9390	N14	W50	0	0	0	30	Q	PRO: IP
						9393	N17	W18	17	5	1	30	E	
						9394	N08	W20	0	0	0	30	Q	
						9395	S13	W06	0	0	0	30	Q	
						9396	S06	W72	0	0	0	30	Q	
						9397	S09	E06	2	0	0	30	E	

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Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location		Flares			Date of Fcst	Region Fcst(1)	Geoadvice(1)
							Lat	Lon	Opt	M	X			
						9399	S31	W60	0	0	0	30	Q	
						9400	N10	W44	1	0	0	30	Q	
						9401	N21	E03	3	0	0	30	E	
						9402	N18	W47	1	0	0	30	Q	
						9403	S13	E20	0	0	0	30	Q	
						9404	S05	E36	0	0	0	30	Q	
						9405	S13	W34	0	0	0	30	Q	
						9406	N26	E52	0	0	0	30	Q	
						9407	N13	E54	0	0	0	30	Q	
						9408	S10	E24	0	0	0	30	E	
090	31	30	349	257	12	9387	N08	W92	0	0	0	31	Q	SOL: Major
						9389	S10	W63	1	0	0	31	Q	MAG: Major
						9390	N13	W65	0	0	0	31	Q	PRO: IP
						9393	N17	W30	18	2	0	31	E	
						9395	S13	W17	0	0	0	31	Q	
						9396	S06	W85	0	0	0	31	Q	
						9397	S09	W06	2	0	0	31	Q	
						9401	N21	W11	2	0	0	31	E	
						9403	S13	E06	0	0	0	31	Q	
						9404	S05	E23	2	0	0	31	Q	
						9406	N26	E41	0	0	0	31	Q	
						9407	N11	E41	0	0	0	31	Q	
						9408	S09	E11	0	0	0	31	E	
						9410	S36	E38	0	0	0	31	Q	
						9411	N07	E49	0	0	0	31	Q	
						9412	S14	E79	0	0	0	31	Q	

(1) Region Forecast and Flare (SOL) Advice

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, probability >=50%)
 P = Proton (Proton flares expected, probability >=50%)
 W = Warning (activity levels are expected to increase, but no numerical forecast given)
 / = No forecast available

Magnetic (MAG) Geoadvice

'Quiet'
 'Active' conditions expected (A>= 20 or K =4)
 'Minor' storm expected (A>= 30 or K =5)
 'Major' storm expected (A>= 50 or K>=6)
 'Severe' storm expected (A>=100 or K>=7)
 'IP' magstorm in progress (A>= 30 or K>=4)
 'Warning' (activity levels are expected to increase, but no numerical forecast given)
 '/' no forecast available

Proton (PRO) Geoadvice

'Quiet'
 'Proton' event expected (10pfu at > 10 MeV)
 'Major' proton event expected (100pfu at >100 MeV)
 'IP' proton event in progress (>10 MeV)
 'Warning' (activity levels are expected to increase, but no numerical forecast given)
 '/' no forecast available

STRATWARM ALERTS

03/01/01 03:30:00 GEOALERT WWA060 Stratwarm alert exists.
 Decaying major warming, further disturbed circulation in the lower stratosphere, but a re-established cold polar vortex in the upper stratosphere.

03/02/01 03:30:00 GEOALERT WWA061 Stratwarm alert exists.
 As a result of the major warming, the circulation in the lower stratosphere remains disturbed, but in the upper stratosphere, a re-established cold polar vortex exists.

03/03/01 03:30:00 GEOALERT WWA062 Stratwarm alert exists.
 As a result of the major warming, the circulation in the lower stratosphere remains disturbed, but in the

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upper stratosphere, a re-established cold polar vortex exists.

03/04/01 03:30:00 GEOALERT WWA063 Stratwarm alert exists.

As a result of the major warming, the circulation in the lower stratosphere remains disturbed, but in the upper and middle stratosphere, a re-established cold polar vortex exists.

03/05/01 03:30:00 GEOALERT WWA064 Stratwarm alert exists.

As a result of the major warming, the circulation in the lower stratosphere remains disturbed. But, in the upper and middle stratosphere, a re-established cold polar vortex exists.

03/06/01 03:30:00 GEOALERT WWA065 Stratwarm alert exists Monday

As a result of the major warming, the circulation in the lower stratosphere remains disturbed.

03/07/01 03:30:00 GEOALERT WWA066 Stratwarm alert/Tuesday/stratwarm exists.

As a result of the major warming, the circulation in the lower stratosphere remains disturbed.

03/08/01 03:30:00 GEOALERT WWA067 Stratwarm alert exists Wednesday.

As a result of the major warming, the circulation in the lower stratosphere remains disturbed.

03/09/01 03:30:00 GEOALERT WWA068 Stratwarm alert exists Thursday.

As a result of the major warming, the circulation in the lower stratosphere remains disturbed. Reversed temperature gradient between 60N and the pole in the lower and middle stratosphere.

03/10/01 03:30:00 GEOALERT WWA069 Stratwarm alert exists Friday

As a result of the minor warming, the circulation in the lower and middle stratosphere remains disturbed. Reversed temperature gradient between 60n and the North Pole in the lower and middle stratosphere.

03/11/01 03:30:00 GEOALERT WWA070 Stratwarm alert exists Saturday.

As a result of the major warming, the circulation in the lower and middle stratosphere remains disturbed. Still, a reversed temperature gradient remains between 60n and the pole in the lower and middle stratosphere.

03/12/01 03:30:00 GEOALERT WWA071 Stratwarm alert exists Sunday

As a result of the major warming, the circulation in the lower stratosphere remains further disturbed leading to a reversed temperature gradient up to 20 hpa. In the middle and upper stratosphere, a cold and elongated polar vortex is reestablished.

03/13/01 03:30:00 GEOALERT WWA072 Stratwarm alert exists Monday

As a result of the major warming, the circulation in the lower stratosphere remains further disturbed leading to a reversed temperature gradient up to 20 hpa. In the middle and upper stratosphere, the cold and elongated polar vortex weakens. slow transition to summer conditions most probable.

03/14/01 03:30:00 GEOALERT WWA073 Stratwarm alert/Tuesday/stratwarm exists.

As a result of the major warming the circulation in the lower stratosphere remains further disturbed leading to a reversed temperature gradient up to 20hpa. In the middle and upper stratosphere the cold and elongated polar vortex weakens. Slow transition to summer conditions most probable.

03/15/01 03:30:00 GEOALERT WWA074 Stratwarm alert/Wednesday/stratwarm exists.

As a result of the major warming the circulation in the lower stratosphere remains further disturbed leading to a reversed temperature gradient up to 20 hpa. In the middle and upper stratosphere the cold and elongated vortex weakens. Slow transitions to summer conditions most probable.

03/16/01 03:30:00 GEOALERT WWA075 Stratwarm alert exists stratwarm Thursday

As a result of the major warming, the circulation on the lower stratosphere remains further disturbed leading to a reversed temperature gradient up to 20 hpa. In the middle and upper stratosphere, the cold and elongated vortex weakens. Slow transition to summer conditions most probable.

03/17/01 03:30:00 GEOALERT WWA076 Stratwarm alert exists stratwarm Friday

As a result of the major warming, the circulation in the lower stratosphere remains further disturbed leading to a reversed temperature gradient up to 20 hpa. In the middle and upper stratosphere, the cold and elongated vortex weakens and becomes less distorted. Slow transition to summer conditions most probable.

03/18/01 03:30:00 GEOALERT WWA077 Stratwarm alert exists stratwarm Saturday.

The circulation in the lower stratosphere remains disturbed as a result of the major warming. The reversed temperature gradient persists up to 20 hpa. In the middle and upper stratosphere, the vortex weakens and becomes less distorted. Slow transition to summer conditions most probable.

03/19/01 03:30:00 GEOALERT WWA078 Stratwarm alert exists stratwarm Sunday

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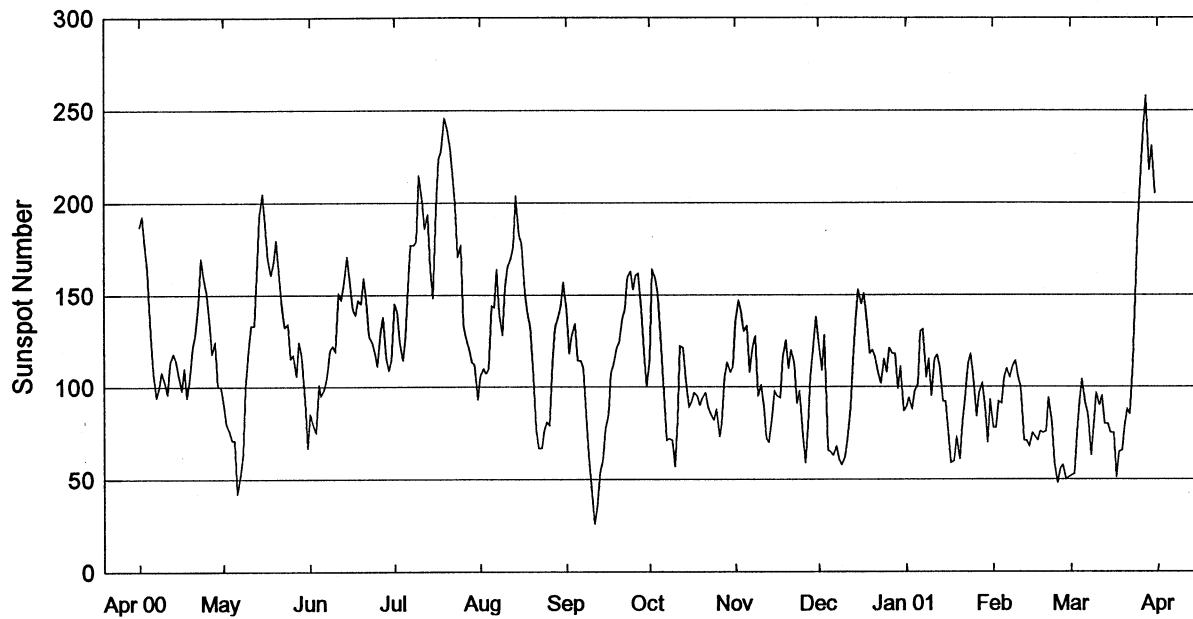
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Lower stratosphere circulation remains disturbed as a result of the major warming. Reversed temperature gradient up to 20 hpa. The vortex is weakening and becoming less disturbed. Slow transition to summer conditions most probable.

03/20/01 03:30:00 GEOALERT WWA079 Stratwarm alert exists stratwarm Monday.
Slowly increasing temperatures over the polar region and weakening of the cyclonic circulation.
End of this alert period.

International Relative Sunspot Numbers Apr 2000 - Mar 2001

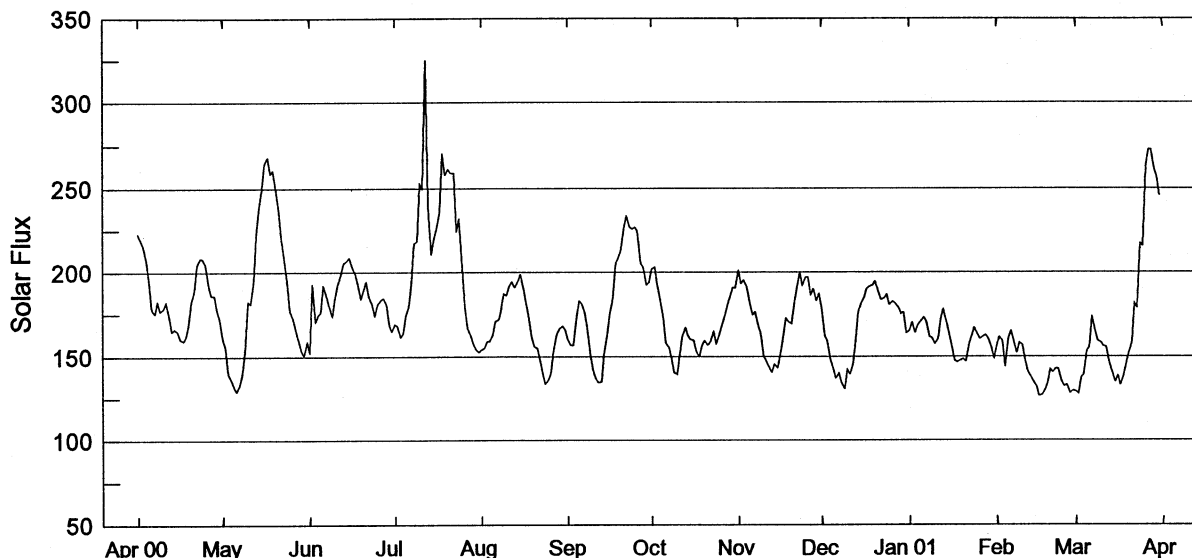


Day	Apr 00	May	Jun	Jul	Aug	Sep	Oct*	Nov*	Dec*	Jan 01*	Feb*	Mar*
1	187	91	85	145	106	142	115	135	124	89	78	52
2	193	80	79	141	110	118	164	147	109	94	78	53
3	177	76	75	124	107	128	159	141	128	88	92	75
4	164	71	101	114	110	134	150	130	66	98	91	92
5	129	71	95	127	144	114	128	133	65	101	105	104
6	108	42	99	154	143	114	97	108	63	130	110	91
7	94	52	105	177	164	110	71	122	68	131	105	85
8	100	64	120	177	140	85	72	127	61	105	111	63
9	108	99	122	179	128	55	71	95	58	115	114	79
10	102	120	119	215	154	42	57	101	62	95	105	97
11	96	133	151	202	165	26	82	90	72	115	100	90
12	113	133	147	186	170	35	122	72	89	117	71	95
13	118	161	156	194	176	63	121	70	114	111	71	80
14	114	193	171	164	204	60	104	84	135	92	68	80
15	105	205	158	148	183	77	89	98	153	92	75	75
16	98	189	142	197	178	85	92	95	145	75	73	75
17	110	170	139	224	152	108	97	94	151	59	71	51
18	94	161	147	228	140	112	95	116	138	60	76	65
19	103	167	145	246	133	121	90	125	118	73	75	66
20	121	180	159	241	106	124	94	110	120	61	76	80
21	128	163	147	231	77	137	97	120	116	81	94	88
22	145	143	127	216	67	142	89	113	107	93	81	85
23	170	132	124	199	67	160	85	91	102	112	59	113
24	160	134	119	171	77	163	82	98	115	118	48	149
25	151	115	111	177	81	153	88	74	108	106	56	186
26	136	117	129	133	79	161	73	59	121	84	58	218
27	118	106	138	126	113	162	80	79	118	97	50	241
28	124	124	115	120	132	142	106	106	118	102	51	258
29	100	117	109	113	138	119	113	123	99	90		218
30	100	93	114	112	144	100	108	138	111	70		231
31		67		93	157		111		87	93		205
Mean	125.5	121.6	124.9	170.1	130.5	109.7	100.1	106.5	104.5	95.1	80.1	114.2

* = Provisional.

Penticton 2800 MHz (10.7cm) Solar Flux Apr 2000 - Mar 2001

Adjusted to 1 AU



Day	Apr 00	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 00	Feb	Mar
1	222.7	160.1	152.3	169.2	153.9	160.5	201.9	201.2	179.3	165.3	156.2	129.0
2	219.3	155.3	192.7+	167.9	155.1	156.7	202.9	193.2	162.3	170.2	161.6	127.4
3	215.5	139.6	170.7	161.5	158.8	156.7	192.1	195.5	158.9	164.2	159.0	137.3
4	206.9	136.8	174.7	163.7	158.7	173.6	184.1	191.4	147.6	168.8	144.0	138.7
5	194.7	132.1	176.1	174.4	163.2	183.1	173.7	183.1	142.7	170.5	160.7	153.4
6	178.1	129.1	192.0	180.1	170.8	181.5	157.9	174.9	136.9	173.4	165.3	155.4
7	175.4	133.4	185.8	193.5	171.6	175.8	155.3	176.6	139.9	170.9	159.6	174.0
8	182.5	139.6	179.9	217.1	175.6	165.7	148.6	169.5	134.1	161.5	152.3	164.8
9	176.9	152.5	174.1	218.4	187.2	153.0	140.4	163.0	130.7	160.8	158.1	159.2
10	178.6	182.8+	185.1	252.7	185.9	142.5	139.1	150.4	142.1	157.4	156.5	158.0
11	182.4	181.3	192.6	249.7	192.3	136.7	150.8	146.6	139.2	160.5	147.4	155.8
12	173.9	194.4	198.7	325.1+	194.3	134.2	161.9	143.6	145.2	172.5	140.9	155.7
13	165.0	222.0	205.5	239.6	190.9	134.8	167.2	140.6	159.5	178.3	137.8	145.6
14	166.3	237.6	206.9	210.6	194.3	152.5	162.3	145.4	176.5	170.6	134.6	140.7
15	164.9	249.9	208.9	220.1	198.9	161.1	160.1	143.2	181.9	163.8	131.8	134.7
16	160.2	264.5	203.8	226.1	190.3	176.4	159.8	150.7	184.4	156.6	126.5	138.5
17	159.2	268.1	199.4	235.8	181.5	183.2	153.0	159.6	190.4	147.0	126.8	132.9
18	161.8	258.8	193.7	270.5	173.6	205.7	149.9	172.9	191.6	146.6	129.0	138.5
19	169.2	260.4	184.2	258.0	160.8	208.8	156.5	170.7	192.2	147.7	134.0	145.7
20	182.4	251.6	189.7	261.1	156.0	213.1	159.3	169.6	194.8	148.3	142.3	152.1
21	189.2	238.0	194.2	259.0	154.9	226.7	156.5	180.9	188.2	146.7	140.5	158.2
22	204.1	220.3	185.6	259.0	147.5	233.8	158.6	190.1	183.8	157.1	142.7	181.8
23	208.4	209.5	181.0	224.3	139.9	226.7	164.8	200.1	184.7	162.0	142.2	178.9
24	208.1	194.3	173.9	232.0	133.5	225.8	157.5	192.1	186.7	167.2	134.6	217.5
25	205.1	177.4	180.9	208.2	136.0	226.8	162.0	197.0#	180.9	163.4	132.2	215.7
26	192.4	172.4	183.4	180.1	139.9	224.7	168.9	197.0	182.6	160.5	132.8	262.6
27	186.0	166.2	184.6	167.4	153.2	205.5	173.7	186.6	181.4	161.8	128.1	272.4
28	186.0	160.2	181.2	162.7	163.2	203.0	179.7	190.3	179.3	162.6	129.4	272.6
29	177.5	153.1	168.8	157.9	166.5	192.6	184.5	183.2	175.5	160.5		261.0
30	172.0	150.5	165.0	154.5	167.9	194.0	191.0	187.0	176.1	154.9		256.3
31		158.7		152.4	165.9		190.5		163.9	148.8		245.3
Mean	185.5	188.7	185.5	211.4	167.2	183.8	166.6	174.9	168.2	161.3	143.1	176.1

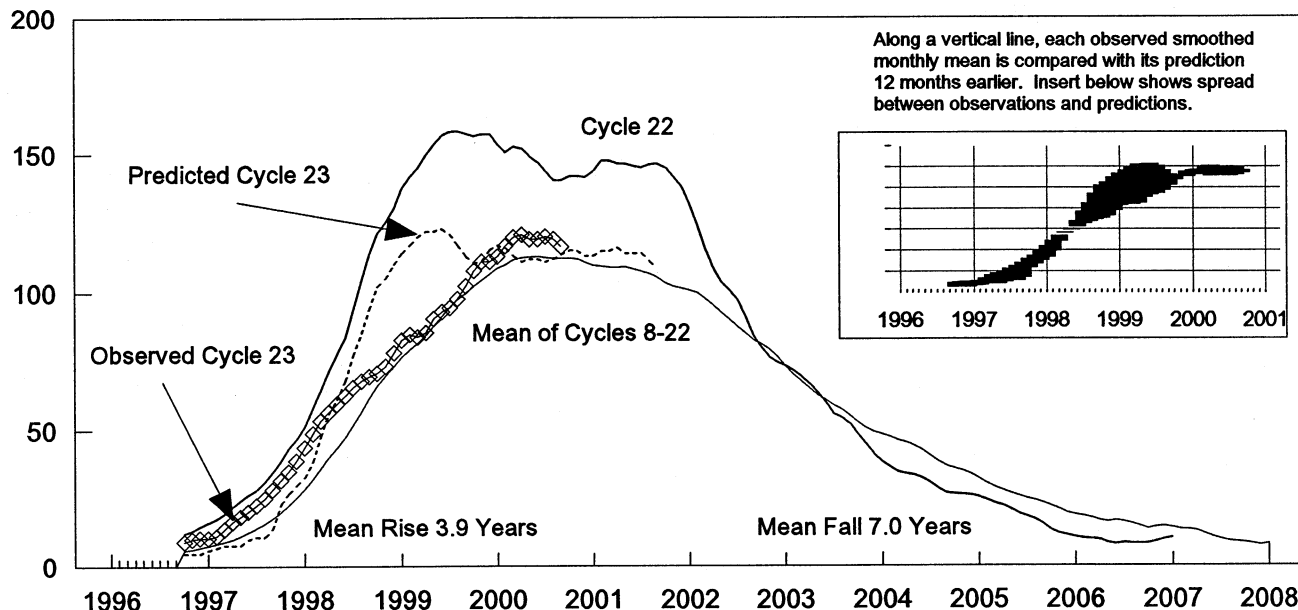
NOTE: #1800UT reading - burst in progress at 2000UT; + Burst in progress.

DAILY SOLAR INDICES
March 2001

Day	Day of Year	Bartels Cycle Day	Sunspot Numbers		Obs Flux Penticton (2800)	Solar Flux Adjusted to 1 Astronomical Unit								
			Int	Amer		SGMR (15400)	SGMR (8800)	SGMR (4995)	Pentic (2800)	SGMR (2695)	SGMR (1415)	SGMR (610)	SGMR (410)	SGMR (245)
1	60	27	52	54	131.4	530	282	166	129.0	112	100	58	34	14
2	61	1	53	62	129.7	527	280	167	127.4	109	99	58	38	14
3	62	2	75	100	139.6	534	282	175	137.3	120	106	58	38	14
4	63	3	92	98	141.0	540	285	178	138.7	121	104	58	37	15
5	64	4	104	111	155.8	--	--	--	153.4	--	--	--	--	--
6	65	5	91	101	157.8	--	--	--	155.4	--	--	--	--	--
7	66	6	85	92	176.6	502	313	214	174.0	148	117	53	53	29
8	67	7	63	82	167.2	570	300	212	164.8	148	119	68	55	24
9	68	8	79	88	161.4	537	290	199	159.2	139	114	65	42	16
10	69	9	97	98	160.1	544	296	201	158.0	139	113	60	39	15
11	70	10	90	94	157.8	538	285	197	155.8	134	111	60	41	17
12	71	11	95	96	157.6	549	287	196	155.7	140	116	64	42	16
13	72	12	80	80	147.3	511	278	178	145.6	128	108	54	37	15
14	73	13	80	85	142.2	532	276	177	140.7	126	108	62	37	15
15	74	14	75	87	136.1	532	273	176	134.7	120	105	60	37	15
16	75	15	75	80	139.9	532	271	172	138.5	120	106	62	37	14
17	76	16	51	64	134.2	532	275	176	132.9	118	105	60	40	20
18	77	17	65	72	139.8	533	274	177	138.5	119	106	62	40	20
19	78	18	66	72	147.0	543	283	186	145.7	126	107	64	38	15
20	79	19	80	92	153.3	545	294	203	152.1	131	110	66	43	18
21	80	20	88	101	159.4	549	296	206	158.2	134	111	65	48	56
22	81	21	85	102	183.0	502	215	178	181.8	142	114	54	36	15
23	82	22	113	130	180.0	554	318	231	178.9	156	126	66	39	44
24	83	23	149	173	218.7	569	332	251	217.5	173	140	72	45	27
25	84	24	186	202	216.8	567	361	288	215.7	203	161	115	--	--
26	85	25	218	235	263.7	580	376	318	262.6	217	171	81	69	146
27	86	26	241	267	273.4	590	430	349	272.4	231	182	88	83	149
28	87	27	258	273	273.5	603	436	370	272.6	240	186	85	80	119
29	88	1	218	245	261.7	592	414	348	261.0	233	184	83	87	315
30	89	2	231	247	256.8	471	291	262	256.3	210	166	77	99	209
31	90	3	205	228	245.6	602	404	328	245.3	221	169	76	56	161
MEAN			114.2	126.1	177.7	545	310	223	176.1	153	126	67	57	82

The International and American sunspot numbers shown above are preliminary values.
NOTE: Radio flux values are from Sagamore Hill, Massachusetts, USA.

Cycle 23 Smoothed Sunspot Numbers: Observed and Predicted



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

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1993	71	69	67	64	60	56	55	52	48	45	41	38	56
1994	37	35	34	34	33	31	29	27	27	27	26	26	31
1995	24	23	22	21	19	18	17	15	13	12	11	11	17
1996	10	10	10	9	8*	9	8	8	8	9**	10	10	8
1997	11	11	14	17	18	20	23	25	28	32	35	39	23
1998	44	49	53	57	59	63	65	68	69	71	73	78	62
1999	83	85	84	85	90	93	94	98	102	108	111	111	95
2000	113	117	120	121	119	119	120	119	116	116 (5)	115 (11)	114 (14)	117 (3)
2001	114 (16)	114 (18)	114 (20)	113 (23)	113 (26)	112 (26)	111 (25)	110 (26)	109 (28)	108 (29)	107 (28)	106 (28)	111 (24)
Solar Cycle 22				Solar Cycle 23				Min, Max, and Predictions					

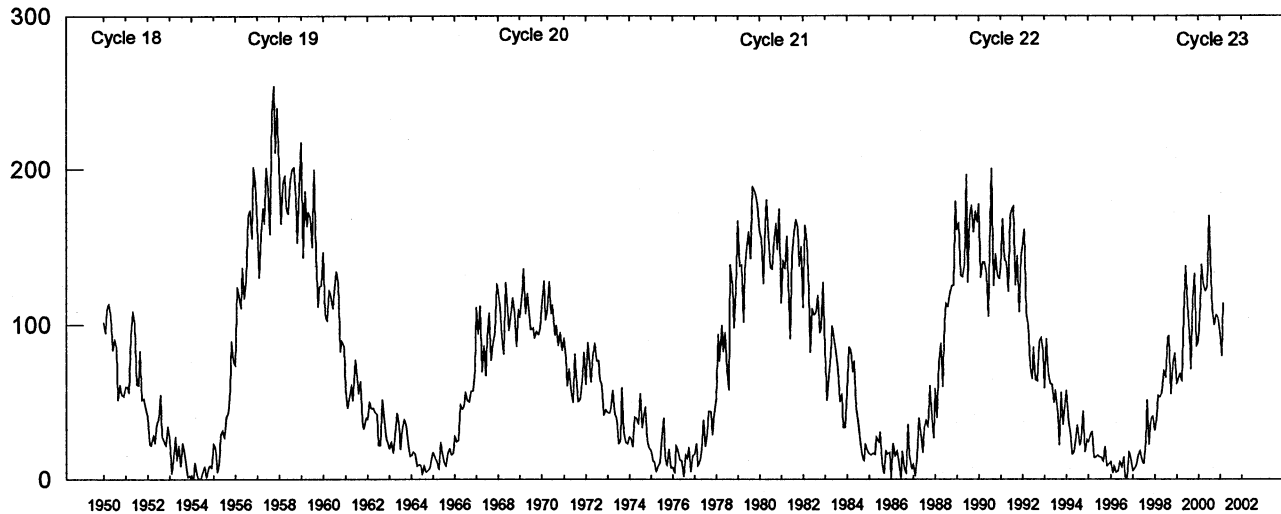
* May 1996 marks Cycle 22's mathematical minimum. ** October 1996 marks the consensus minimum NGDC is now using.

Observed and Predicted Numbers. For the end of Cycle 22, and the rise and decline of Cycle 23, the table above lists observed smoothed sunspot numbers up to the one that includes the most recent monthly mean. We based these smoothed values on final monthly means through Sep 2000 and on provisional numbers thereafter. Table entries with numbers in parentheses below them denote predictions by the McNish-Lincoln method. (See page 9 in the Jul 1987 supplement to *Solar-Geophysical Data*.) Adding the number in parentheses to the predicted value generates the upper limit of the 90% confidence interval. Subtracting the number from the predicted value generates the lower limit. Consider, for example, the September 2001 prediction. There exists a 90% chance that in September 2001, the actual smoothed number will fall somewhere between 81 and 137.

Points to Ponder. The McNish-Lincoln prediction method generates useful estimates of smoothed, monthly mean sunspot numbers for no more than 12 months ahead. Beyond 12 months, the predictions regress toward the mean of all 15 cycles of observations used in the computation. Moreover, the method remains very sensitive to the date defining the onset of the current cycle, that is, to the date of the most recent sunspot minimum. The new cycle predictions tabulated above are based on the consensus minimum value of 8.8 that occurred in October 1996.

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

Mean Monthly Sunspot Numbers Jan 1950 - Mar 2001



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1950	101.6	94.8	109.7	113.4	106.2	83.6	91.0	85.2	51.3	61.4	54.8	54.1	83.9
1951	59.9	59.9	55.9	92.9	108.5	100.6	61.5	61.0	83.1	51.6	52.4	45.8	69.4
1952	40.7	22.7	22.0	29.1	23.4	36.4	39.3	54.9	28.2	23.8	22.1	34.3	31.5
1953	26.5	3.9	10.0	27.8	12.5	21.8	8.6	23.5	19.3	8.2	1.6	2.5	13.9
1954	0.2	0.5	10.9	1.8	0.8	0.2	4.8	8.4	1.5	7.0	9.2	7.6	4.4 m
1955	23.1	20.8	4.9	11.3	28.9	31.7	26.7	40.7	42.7	58.5	89.2	76.9	38.0
1956	73.6	124.0	118.4	110.7	136.6	116.6	129.1	169.6	173.2	155.3	201.3	192.1	141.7
1957	165.0	130.2	157.4	175.2	164.6	200.7	187.2	158.0	235.8	253.8	210.9	239.4	190.2 M
1958	202.5	164.9	190.7	196.0	175.3	171.5	191.4	200.2	201.2	181.5	152.3	187.6	184.8
1959	217.4	143.1	185.7	163.3	172.0	168.7	149.6	199.6	145.2	111.4	124.0	125.0	159.0
1960	146.3	106.0	102.2	122.0	119.6	110.2	121.7	134.1	127.2	82.8	89.6	85.6	122.3
1961	57.9	46.1	53.0	61.4	51.0	77.4	70.2	55.8	63.6	37.7	32.6	39.9	53.9
1962	38.7	50.3	45.6	46.4	43.7	42.0	21.8	21.8	51.3	39.5	26.9	23.2	37.6
1963	19.8	24.4	17.1	29.3	43.0	35.9	19.6	33.2	38.8	35.3	23.4	14.9	27.9
1964	15.3	17.7	16.5	8.6	9.5	9.1	3.1	9.3	4.7	6.1	7.4	15.1	10.2 m
1965	17.5	14.2	11.7	6.8	24.1	15.9	11.9	8.9	16.8	20.1	15.8	17.0	15.1
1966	28.2	24.4	25.3	48.7	45.3	47.7	56.7	51.2	50.2	57.2	57.2	70.4	47.0
1967	110.9	93.6	111.8	69.5	86.5	67.3	91.5	107.2	76.8	88.2	94.3	126.4	93.8
1968	121.8	111.9	92.2	81.2	127.2	110.3	96.1	109.3	117.2	107.7	86.0	109.8	105.9 M
1969	104.4	120.5	135.8	106.8	120.0	106.0	96.8	98.0	91.3	95.7	93.5	97.9	105.5
1970	111.5	127.8	102.9	109.5	127.5	106.8	112.5	93.0	99.5	86.6	95.2	83.5	104.5
1971	91.3	79.0	60.7	71.8	57.5	49.8	81.0	61.4	50.2	51.7	63.2	82.2	66.6
1972	61.5	88.4	80.1	63.2	80.5	88.0	76.5	76.8	64.0	61.3	41.6	45.3	68.9
1973	43.4	42.9	46.0	57.7	42.4	39.5	23.1	25.6	59.3	30.7	23.9	23.3	38.0
1974	27.6	26.0	21.3	40.3	39.5	36.0	55.8	33.6	40.2	47.1	25.0	20.5	34.5
1975	18.9	11.5	11.5	5.1	9.0	11.4	28.2	39.7	13.9	9.1	19.4	7.8	15.5
1976	8.1	4.3	21.9	18.8	12.4	12.2	1.9	16.4	13.5	20.6	5.2	15.3	12.6 m
1977	16.4	23.1	8.7	12.9	18.6	38.5	21.4	30.1	44.0	43.8	29.1	43.2	27.5
1978	51.9	93.6	76.5	99.7	82.7	95.1	70.4	58.1	138.2	125.1	97.9	122.7	92.5
1979	166.6	137.5	138.0	101.5	134.4	149.5	159.4	142.2	188.4	186.2	183.3	176.3	155.4 M
1980	159.6	155.0	126.2	164.1	179.9	157.3	136.3	135.4	155.0	164.7	147.9	174.4	154.6
1981	114.0	141.3	135.5	156.4	127.5	90.9	143.8	158.7	167.3	162.4	137.5	150.1	140.4
1982	111.2	163.6	153.8	122.0	82.2	110.4	106.1	107.6	118.8	94.7	98.1	127.0	115.9
1983	84.3	51.0	66.5	80.7	99.2	91.1	82.2	71.8	50.3	55.8	33.3	33.4	66.6
1984	57.0	85.4	83.5	69.7	76.4	46.1	37.4	25.5	15.7	12.0	22.8	18.7	45.9
1985	16.5	15.9	17.2	16.2	27.5	24.2	30.7	11.1	3.9	18.6	16.2	17.3	17.9
1986	2.5	23.2	15.1	18.5	13.7	1.1	18.1	7.4	3.8	35.4	15.2	6.8	13.4 m
1987	10.4	2.4	14.7	39.6	33.0	17.4	33.0	38.7	33.9	60.6	39.9	27.1	29.4
1988	59.0	40.0	76.2	88.0	60.1	101.8	113.8	111.6	120.1	125.1	125.1	179.2	100.2
1989	161.3	165.1	131.4	130.6	138.5	196.2	126.9	168.9	176.7	159.4	173.0	165.5	157.6 M
1990	177.3	130.5	140.3	140.3	132.2	105.4	149.4	200.3	125.2	145.5	131.4	129.7	142.6
1991	136.9	167.5	141.9	140.0	121.3	169.7	173.7	176.3	125.3	144.1	108.2	144.4	145.7
1992	150.0	161.1	106.7	99.8	73.8	65.2	85.7	64.5	63.9	88.7	91.8	82.6	94.3
1993	59.3	91.0	69.8	62.2	61.3	49.8	57.9	42.2	22.4	56.4	35.6	48.9	54.6
1994	57.8	35.5	31.7	16.1	17.8	28.0	35.1	22.5	25.7	44.0	18.0	26.2	29.9
1995	24.2	29.9	31.1	14.0	14.5	15.6	14.5	14.3	11.8	21.1	9.0	10.0	17.5
1996	11.5	4.4	9.2	4.8	5.5	11.8	8.2	14.4	1.6	0.9	17.9	13.3	8.6 m
1997	5.7	7.6	8.7	15.5	18.5	12.7	10.4	24.4	51.3	22.8	39.0	41.2	21.5
1998	31.9	40.3	54.8	53.4	56.3	70.7	66.6	92.2	92.9	55.5	74.0	81.9	64.3
1999	62.0	66.3	68.8	63.7	106.4	137.7	113.5	93.7	71.5	116.7	133.2	84.6	93.2
2000	90.1	112.9	138.5	125.5	121.6	124.9	170.1	130.5	109.7	100.1	106.5	104.5	119.6
2001	95.1	80.1	114.2										96.5

Values are preliminary after Sep 00. For the yearly means, each 'M' marks a sunspot cycle maximum and each 'm' a minimum.

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Mar 01

H α SOLAR FLARES

MARCH 2001

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
GOES	01	0034	0055	0102						28		B 5.9						8.2E-04
GOES		1439	1442	1445						6		B 5.7						1.4E-04
GOES		1814	1822	1824	S09	W27	9364			10		SF C 1.2						4.8E-04
RAMY		1817	1819	1830	S09	W27	9364	02	27.8	13		SF	3	E		51		8E-04
GOES		2234	2240	2245						11		B 4.8						2.7E-04
GOES	02	1434	1437	1439						5		B 3.8						8.9E-05
GOES	03	0019	0023	0029						10		B 6.6						3.5E-04
GOES		0105	0108	0111						6		B 5.6						1.7E-04
LEAR		0436	0438	0440	S26	E38		03	6.1	4		SF	3	E		12		
LEAR		0515	0515	0528	N16	W40		02	28.2	13		SF	3	E		10		F
GOES		0537	0542	0546	N17	W41				9		SF B 8.1						3.8E-04
LEAR		0542	0549	0551	N17	W41		02	28.1	9		SF	3	E		18		F
GOES		0608	0614	0622						14		B 7.4						5.1E-04
RAMY		1126	1129	1157	N17	W43		02	28.2	31		SF	3	E		14		
GOES		1133	1139	1150	N17	W43				17		SF B 5.9						5.4E-04
RAMY		1208	1208	1217	N17	W44		02	28.2	9		SF	3	E		13		F
GOES		1252	1309	1318	N17	W45				26		SF B 7.7						9.3E-04
RAMY		1306	1314	1319	N17	W45		02	28.1	13		SF	3	E		22		
HOLL		1434	1436	1439	N18	W43	9369	02	28.3	5		SF	3	E		14		
GOES		1807	1812	1816						9		B 8.3						3.8E-04
GOES	04	0603	0609	0614						11		B 5.6						3.3E-04
GOES		0935	0953	1002						27		B 7.1						8.7E-04
GOES		1153	1202	1209						16		C 1.1						9.3E-04
GOES		1845	1849	1852	S26	E13	9366			7		SF C 1.2						3.1E-04
HOLL		1849	1849	1855	S26	E13	9366	03	5.8	6		SF	3	E		28		
GOES	05	0015	0018	0020						5		B 8.6						2.2E-04
LEAR		0549E	0605U	0626	N17	W66	9369	02	28.2	37D		SF	3	E		20		
GOES		0625	0630	0635	N17	W66	9369			10		SF B 7.2						3.9E-04
GOES		0828	0855	0910	S11	W77	9364			42		SF C 1.1						2.2E-03
LEAR		0840	0843	0848	S11	W77	9364	02	27.7	8		SF	3	E		35		
GOES		0911	0958	1014						63		C 1.6						4.4E-03
GOES		1408	1433	1445						37		C 1.1						1.8E-03
RAMY		1443	1444	1449	S08	W91		02	26.9	6		SF	3	E		32		F
HOLL		1534	1535	1542	N16	W75	9369	02	28.0	8		SF	3	E		17		
RAMY		1534	1538	1545	N18	W88	9369	02	27.0	11		SF	3	E		36		
GOES		1625	1640	1651						26		C 1.4						1.8E-03
GOES		1803	1809	1814						11		C 2.7						1.3E-03
GOES		1831	1848	1904						33		C 1.8						2.7E-03
GOES		1940	2005	2011						31		C 1.4						1.9E-03
GOES		2113	2117	2122						9		C 1.3						5.4E-04
GOES		2245	2248	2251						6		B 8.8						2.7E-04
GOES	06	0213	0236	0252						39		C 1.3						2.4E-03
GOES		0541	0545	0547						6		C 1.2						3.7E-04
LEAR		0726	0734	0738	N20	W56	9371	03	2.0	12		SF	3	E		15		F
LEAR		0853	0854	0859	N20	W56	9371	03	2.1	6		SF	3	E		35		F
GOES		0906	0913	0924	N26	E02	9368			18		SF C 1.7						1.6E-03
LEAR		0912	0913	0916	N26	E02	9368	03	6.5	4		SF	3	E		15		F
GOES		1004	1013	1023						19		C 6.7						5.3E-03
GOES		1051	1059	1104						13		C 2.2						1.6E-03
GOES		1219	1232	1236	N25	E03	9368			17		SF C 2.6						1.8E-03
GOES		1253	1305	1309	N25	E02	9368			16		SF C 2.1						1.7E-03
SVTO		1254	1256U	1306	N25	E02	9368	03	6.7	12		SF	3	E		32		
GOES		1421	1427	1441						20		C 1.5						1.6E-03
GOES		1549	1552	1559						10		C 1.5						8.4E-04
GOES		1709	1713	1719	N25	W01	9368			10		SF C 2.1						1.0E-03
HOLL		1712	1712	1717	N25	W01	9368	03	6.6	5		SF	3	E		10		
GOES		1737	1739	1742						5		C 1.4						4.1E-04
GOES		1813	1816	1819						6		C 1.3						4.4E-04
GOES		1931	1935	1938						7		C 1.4						5.1E-04
GOES		2139	2142	2145	N25	W03	9368			6		SF C 3.2						7.7E-04
HOLL		2142	2142	2146	N25	W03	9368	03	6.7	4		SF	3	E		25		F
GOES		2240	2251	2258						18		C 1.6						1.5E-03
HOLL	07	0003E	0003	0005	N21	W64	9371	03	2.1	2D		SF	3	E		22		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
GOES	07	0009	0016	0024	S08	W49	9365			15	1F	C	4.6					3.1E-03
HOLL		0011	0015	0040	S08	W48	9365	03	3.4	29	1F		3	E		138		
LEAR		0011	0017	0041	S08	W49	9365	03	3.3	30	1F		3	E		124		FH
GOES		0059	0107	0116						17		C	3.9					3.4E-03
GOES		0504	0509	0516	N10	E10	9370			12	SF	C	2.9					1.8E-03
LEAR		0507	0509	0511	N10	E10	9370	03	8.0	4	SF		3	E		12		
GOES		0832	0841	0855	N19	W73	9371			23	SF	C	2.7					3.3E-03
SVTO		0840	0841	0844	N23	W76	9371	03	1.5	4	SF		3	E		22		
LEAR		0840	0841	0846	N19	W73	9371	03	1.8	6	SF		3	E		47		F
LEAR		0847	0848	0856	N23	W72	9371	03	1.8	9	SF		3	E		55		F
SVTO		0847	0850	0854	N27	W75	9371	03	1.5	7	SF		3	E		24		
LEAR		0914	0921	0925	N20	W68	9371	03	2.2	11	SF		3	E		29		
GOES		0948	0949	0955	N20	W68	9371			7	SF	C	2.0					8.4E-04
LEAR		0948	0950	0956	N20	W68	9371	03	2.2	8	SF		2	E		68		F
GOES		1446	1502	1555	N23	W75	9371			69	SF	C	5.8					2.0E-02
SVTO		1455	1500	1516	N23	W75	9371	03	1.8	21	SF		2	E		31		F
HOLL		1536	1545	1554	N21	W78	9371	03	1.7	18	SF		3	E		14		F
HOLL		1608	1609	1611	N22	W79	9371	03	1.6	3	SF		3	E		17		F
GOES		1810	1815	1820						10		C	2.9					1.5E-03
GOES		1919	1927	1948	N27	W16	9368			29	SF	C	7.3					1.1E-02
HOLL		1923	1929	1944	N27	W16	9368	03	6.6	21	SF		3	E		60		UF
HOLL		2007	2009	2050	N30	W16	9368	03	6.6	43	SF		3	E		23		
GOES		2100	2105	2109						9		C	3.9					1.7E-03
GOES		2357	2401	2403						6		C	1.6					5.0E-04
GOES	08	0332	0339	0352						20		C	3.0					3.0E-03
GOES		0855	0858	0900						5		C	2.9					6.4E-04
GOES		0952	1051	1105	N11	W02	9370			73	SF	C	5.5					1.6E-02
LEAR		1012	1014U	1023D	N09	W06	9370	03	8.0	11D	SF		2	E		24		F
SVTO		1016	1019U	1052	N11	W02	9370	03	8.3	36	SF		3	E		67		FH
GOES		1113	1118	1121	N30	W18	9368			8	1B	M	5.7					1.3E-02
SVTO		1119	1119U	1145D	N30	W18	9368	03	7.0	26D	1B		3	E		129		F
GOES		1237	1240	1243						6		C	3.7					1.2E-03
GOES		1547	1557	1603						16		C	8.6					7.3E-03
GOES		1609	1614	1618						9		C	7.3					3.8E-03
GOES	09	0151	0157	0200	N24	W38	9368			9	1N	M	1.5					4.1E-03
LEAR		0424	0456	0507	S12	W90	9365	03	2.4	43	SF		3	E		50		
GOES		0433	0437	0439	S12	W90	9365			6	SF	C	2.4					7.6E-04
GOES		0729	0735	0741						12		C	3.0					1.9E-03
GOES		0837	0847	0913	N09	W18	9370			36	SF	C	6.0					1.0E-02
LEAR		0839	0842	0903D	N09	W18	9370	03	8.0	24D	SF		3	E		84		F
LEAR		0925E	0925U	0946	S12	W89	9365	03	2.7	21D	SF		3	E		36		
GOES		1006	1028	1110						64		M	1.0					3.1E-02
GOES		1544	1606	1621	S35	W48				37	SF	C	2.9					5.1E-03
RAMY		1546	1547	1600	S35	W48		03	5.8	14	SF		3	E		19		
GOES		1653	1659	1704	S34	W48				11	SF	C	2.6					1.5E-03
RAMY		1654	1655	1704	S34	W48		03	5.9	10	SF		3	E		23		
HOLL		2021	2026	2038	S36	W49		03	5.9	17	SF		3	E		62		F
GOES		2022	2027	2030	S36	W49	9372			8	SF	C	7.8					3.1E-03
HOLL		2114	2119	2124	S36	W50	9372	03	5.9	10	SF		3	E		15		
GOES		2117	2120	2122	S36	W50	9372			5	SF	C	2.4					7.1E-04
GOES		2318	2324	2332	N24	W49	9368			14	1N	C	9.0					4.9E-03
LEAR		2318	2324	2412	N24	W49	9368	03	6.2	54	1N		3	E		174		FE
LEAR		2320	2321	2335	S36	W53	9372	03	5.7	15	SF		3	E		42		H
HOLL		2330E	2330U	2406	N24	W48	9368	03	6.3	36D	SF		2	E		92		FH
GOES	10	0005	0010	0014	S36	W51	9372			9	SF	C	3.7					1.7E-03
LEAR		0008	0010	0020	S36	W51	9372	03	5.9	12	SF		3	E		38		
HOLL		0010	0012	0021	S36	W52	9372	03	5.8	11	SF		3	E		44		
GOES		0058	0105	0115						17		C	1.4					1.4E-03
LEAR		0152	0153	0159	S36	W54	9372	03	5.7	7	SF		3	E		18		
LEAR		0208	0211	0216	S36	W54	9372	03	5.7	8	SF		3	E		15		
LEAR		0323	0324	0330	N27	W42	9368	03	6.9	7	SF		3	E		12		
GOES		0400	0405	0407	N27	W42	9368			7	1B	M	6.7					1.3E-02
LEAR		0401	0405	0419	N27	W42	9368	03	6.9	18	1B		3	E		242		HH
LEAR		0407	0409	0413	S36	W55	9372	03	5.7	6	SF		3	E		16		
GOES		0447	0451	0500						13		C	1.9					1.4E-03

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
LEAR	10	0609	0613	0615	S36	W56	9372	03	5.8	6	SF		3	E		19		
LEAR		0636	0637	0640	S36	W56	9372	03	5.8	4	SF		3	E		15		
LEAR		0650	0650	0658	S37	W55	9372	03	5.8	8	SF		3	E		12		F
GOES		0651	0655	0659	S37	W55	9372			8	SF	C 1.6						6.9E-04
LEAR		0706	0709	0726	S37	W56	9372	03	5.8	20	SF		3	E		26		F
GOES		0708	0715	0720	S37	W56	9372			12	SF	C 2.7						1.6E-03
SVTO		0714	0717	0720	S33	W57	9372	03	5.8	6	SF		2	E		15		F
GOES		0733	0737	0742	S37	W55	9372			9	SF	C 1.6						8.4E-04
LEAR		0735	0736	0740	S37	W55	9372	03	5.9	5	SF		3	E		22		F
GOES		0816	0825	0834						18		C 1.6						1.5E-03
GOES		0938	0952	1003	S35	W54	9372			25	SF	C 3.1						3.3E-03
LEAR		0942	0945	0957	S36	W56	9372	03	5.9	15	SF		2	E		70		F
SVTO		0944	0945	0952	S35	W54	9372	03	6.1	8	SF		3	E		28		FH
HOLL		1508	1509	1511	S36	W62	9372	03	5.6	3	SF		3	E		28		
GOES		1548	1600	1608	S08	E67	9373			20	SF	C 1.5						1.5E-03
HOLL		1600	1602	1609	S08	E67	9373	03	15.7	9	SF		3	E		19		F
GOES		1615	1622	1630						15		C 6.3						3.9E-03
GOES		1708	1723	1740						32		C 5.9						8.5E-03
GOES		1934	1939	1943						9		C 2.5						1.1E-03
HOLL		2032	2033	2039	N25	W60	9368	03	6.2	7	SF		3	E		15		
RAMY		2032	2033	2039	N26	W60	9368	03	6.2	7	SF		3	E		16		
GOES		2251	2255	2258	S10	E65	9373			7	SF	C 1.0						4.2E-04
HOLL		2253	2259	2309	S10	E65	9373	03	15.8	16	SF		3	E		25		
GOES	11	0018	0023	0029						11		C 2.0						1.0E-03
GOES		0537	0542	0548	S15	E85				11	SF	C 1.8						9.1E-04
LEAR		0540	0540	0548	S15	E85		03	17.7	8	SF		3	E		25		
GOES		0653	0657	0702						9		C 1.1						5.4E-04
GOES		0757	0813	0829						32		C 1.4						2.3E-03
LEAR		0834	0837	0852	S14	E87		03	17.9	18	SF		3	E		98		FH
GOES		0843	0856	0906	S14	E87				23	SF	C 5.0						5.2E-03
LEAR		0908	0909	0933	N14	E56		03	15.6	25	SF		2	E		11		F
SVTO		1541	1542	1544	N29	W62	9368	03	6.8	3	SF		3	E		18		
RAMY		1650	1650	1653	N28	W67	9368	03	6.5	3	SF		3	E		27		
GOES		2334	2338	2347						13		C 1.1						7.3E-04
GOES	12	0002	0010	0022	S08	E49	9373			20	SF	C 2.0						2.2E-03
HOLL		0015	0017	0024	S08	E48	9373	03	15.6	9	SF		3	E		20		F
LEAR		0015	0017	0025	S08	E49	9373	03	15.7	10	SF		3	E		30		F
GOES		0220	0226	0229	S08	E48	9373			9	SF	C 1.1						5.1E-04
LEAR		0223	0224	0229	S08	E48	9373	03	15.7	6	SF		4	E		30		F
GOES		0232	0242	0249	S12	E81	9376			17	SF	C 3.1						2.4E-03
LEAR		0236	0236	0239	S12	E81	9376	03	18.2	3	SF		4	E		18		
GOES		0516	0523	0529						13		C 2.1						1.2E-03
GOES		0639	0645	0651	S15	E71	9376			12	SF	B 9.7						6.1E-04
LEAR		0644	0644	0648	S15	E71	9376	03	17.6	4	SF		3	E		19		F
GOES		1417	1423	1435						18		B 7.5						7.2E-04
GOES		1626	1737	1800	S14	E64	9376			94	SF	C 4.7						1.4E-02
HOLL		1634	1636	1646	S14	E64	9376	03	17.5	12	SF		3	E		26		F
RAMY		1729	1735	1751	S16	E63	9376	03	17.5	22	SF		3	E		24		F
HOLL		1729	1738	1753	S14	E65	9376	03	17.6	24	SF		3	E		35		F
GOES		1836	1854	1918	S18	E64	9376			42	SF	C 3.2						6.8E-03
RAMY		1846	1854	1919	S20	E62	9376	03	17.5	33	SF		3	E		25		U
HOLL		1850	1856	1918	S18	E64	9376	03	17.6	28	SF		3	E		31		U
GOES	13	0546	0600	0610						24		B 7.9						1.1E-03
GOES		0821	0830	0846						25		C 1.5						2.0E-03
GOES		0913	0922	0935						22		C 1.6						2.0E-03
GOES		1127	1135	1139	S08	E30	9373			12	SF	B 7.3						4.7E-04
SVTO		1132	1132	1138	S08	E30	9373	03	15.7	6	SF		3	E		11		H
RAMY		1137	1137	1141	S08	E30	9373	03	15.7	4	SF		3	E		16		H
GOES	14	0901	0906	0910						9		B 5.6						2.7E-04
GOES		1202	1211	1222						20		B 9.4						9.2E-04
GOES		1310	1316	1319						9		B 5.3						2.6E-04
GOES		1501	1510	1519						18		B 4.1						4.3E-04
GOES		1558	1604	1608	S08	E12	9373			10	SF	B 5.2						2.8E-04
RAMY		1603	1603	1610	S08	E12	9373	03	15.6	7	SF		3	E		11		F

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
[RAMY	18	1730	1731	1800	N10	W47	9384	03	15.2	30	SF		3	E		69		FH
	HOLL	1730	1734	1742	N09	W48	9384	03	15.1	12	SF		3	E		34		F
LEAR	19	0833	0834	0838	S03	W44	9373	03	16.1	5	SF		2	E		13		F
LEAR		0916	0917	0925	N17	W51	9384	03	15.5	9	SF		3	E		17		
[GOES		1840	1845	1849	S04	W47	9373			9	SF	C 3.4						1.2E-03
HOLL		1842	1843	1853	S04	W47	9373	03	16.3	11	SF		3	E		33		F
GOES		2033	2038	2044						11		C 1.3						8.3E-04
[GOES		2317	2327	2332	S04	W49	9373			15	SF	C 3.2						2.0E-03
HOLL		2323	2326	2329	S04	W49	9373	03	16.3	6	SF		3	E		10		
[GOES	20	0206	0218	0225	S05	W54	9373			19	SF	M 1.1						6.4E-03
LEAR		0215	0218	0245	S05	W54	9373	03	16.0	30	SF		4	E		39		F
LEAR		0232	0240	0254	S16	W36	9376	03	17.4	22	SF		4	E		26		F
[GOES		0320	0333	0337	N07	W70	9384			17	SF	M 1.2						5.4E-03
LEAR		0322	0329	0337	N07	W70	9384	03	14.9	15	SF		3	E		89		
GOES		0530	0539	0546						16		C 2.4						1.9E-03
GOES		0550	0554	0601						11		C 1.9						1.1E-03
LEAR		0656	0658	0704	S05	W57	9373	03	16.0	8	SF		3	E		23		
LEAR		0707	0708	0722	S05	W58	9373	03	15.9	15	SF		3	E		35		F
LEAR		0750E	0759	0803	S05	W58	9373	03	16.0	13D	SF		3	E		28		F
GOES		0938	1000	1055						77		C 2.1						6.8E-03
GOES		1220	1224	1243						23		C 1.7						2.2E-03
HOLL		1358	1424	1443	S04	W61	9373	03	16.0	45	SF		3	E		28		FE
[GOES		1419	1424	1438	N14	E76	9390			19	SF	M 1.1						7.8E-03
HOLL		1422	1426	1445	N14	E76		03	26.3	23	SF		3	E		81		
RAMY		1423	1423U	1457D	N12	E78		03	26.5	34D	SF		3	E		24		F
[GOES		1457	1507	1514	S05	W61	9373			17	1F	M 1.6						1.1E-02
RAMY		1500	1505U	1505D	S05	W59	9373	03	16.2	5D	1F		3	E		107		
HOLL		1500	1513	1536	S05	W61	9373	03	16.1	36	1F		3	E		126		FH
HOLL		1505	1536	1603	N12	E72	9390	03	26.0	58	SF		3	E		75		
GOES		2056	2104	2112			9373			16		M 1.5						9.3E-03
GOES		2246	2254	2302			9390			16		C 8.8						5.3E-03
GOES	21	0106	0112	0130						24		C 1.5						1.9E-03
[GOES		0228	0237	0242	S05	W65	9373			14	SN	M 1.8						8.5E-03
LEAR		0237	0239	0257	S05	W65	9373	03	16.2	20	SN		5	E		71		H
[GOES		0656	0724	0730	S14	E77	9389			34	SF	C 5.6						8.1E-03
LEAR		0721	0721	0726	S14	E77	9389	03	27.1	5	SF		4	E		26		
LEAR		0841	0912	0930	N15	E65	9390	03	26.3	49	SF		3	E		70		F
SVTO		0846E	0847U	0849	N15	E71	9390	03	26.7	3D	SF		3	E		30		
GOES		1022	1027	1031						9		C 2.3						1.0E-03
GOES		1045	1048	1055						10		C 1.9						1.0E-03
[GOES		1122	1127	1132	S05	W70	9373			10	SF	C 9.8						3.7E-03
SVTO		1125	1126	1134	S05	W70	9373	03	16.2	9	SF		3	E		76		
GOES		1300	1305	1317						17		C 1.7						1.6E-03
GOES		2005	2012	2015						10		C 2.1						1.1E-03
GOES	22	0152	0204	0223						31		C 6.4						9.7E-03
GOES		0508	0515	0526						18		M 1.0						7.8E-03
GOES		0709	0821	0825						76		M 1.6						2.2E-02
SVTO		1045	1046	1048	N13	E52	9390	03	26.4	3	SF		3	E		22		
SVTO		1055	1056U	1059	N13	E54	9390	03	26.5	4	SF		3	E		16		H
[GOES		1312	1319	1334	N13	E49	9390			22	SF	M 1.0						1.1E-02
SVTO		1316E	1317U	1351D	N13	E49	9390	03	26.2	35D	SF		2	E		89		FH
GOES		1619	1627	1701						42		C 7.8						1.5E-02
GOES		1815	1834	1843						28		C 5.3						6.9E-03
GOES		2253	2300	2307						14		C 5.7						3.9E-03
LEAR	23	0147	0147	0150	N07	E21	9387	03	24.6	3	SF		3	E		12		F
[GOES		0259	0303	0306	S11	W73	9376			7	SF	C 2.3						8.2E-04
LEAR		0301	0302	0306	S11	W73	9376	03	17.6	5	SF		3	E		29		
LEAR		0350	0358	0415	N17	E43	9390	03	26.4	25	SF		4	E		87		F
[GOES		0350	0408	0416	N17	E43	9390			26	SF	C 2.8						3.7E-03
LEAR		0457	0458	0503	S11	W74	9376	03	17.6	6	SF		3	E		25		
[GOES		0538	0543	0546	S11	E56	9389			8	SF	C 2.5						9.0E-04
LEAR		0540	0544	0550	S11	E56	9389	03	27.4	10	SF		3	E		69		H
SVTO		0541	0544	0547	S13	E56	9389	03	27.5	6	SF		3	E		32		H

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	(Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
HOLL	23	1425	1431	1441	S12	E78		03	29.5	16	SF		3	E		40		
HOLL		1450	1455	1503	S12	E78		03	29.5	13	SF		3	E		25		
GOES		1517	1523	1532	S12	E79				15	SF	C 3.4					2.4E-03	
HOLL		1523	1523	1538	S12	E79		03	29.6	15	SF		3	E		31		
HOLL		1717	1720	1728	N14	E27	9390	03	25.8	11	SF		3	E		13		F
GOES		1840	1859	1919						39		C 1.9					3.8E-03	
GOES		2034	2044	2049			9390			15		C 2.1					1.5E-03	
RAMY		2035	2037	2048	S13	E76		03	29.6	13	SF		3	E		29		
HOLL		2035	2040	2050	S12	E74		03	29.4	15	SF		3	E		46		
HOLL		2040	2044	2059	N13	E32	9390	03	26.3	19	SF		3	E		78		F
RAMY		2041	2045	2059	N13	E33	9390	03	26.3	18	SF		3	E		65		F
GOES		2135	2141	2146						11		C 2.7					1.3E-03	
LEAR	24	0100	0100	0103	N16	E65	9393	03	29.0	3	SF		3	E		21		H
GOES		0133	0138	0142	S14	W82	9376			9	SF	M 1.2					3.6E-03	
LEAR		0136	0137	0144	S14	W82	9376	03	17.9	8	SF		3	E		49		
GOES		0224	0230	0233						9		C 2.1					9.1E-04	
GOES		0345	0351	0403						18		C 2.0					2.0E-03	
LEAR		0723	0724	0750	S11	E39	9389	03	27.2	27	SF		3	E		14		F
LEAR		0737	0739	0751	N20	E61	9393	03	29.0	14	SF		3	E		10		H
LEAR		0741	0746	0812	N14	E25	9390	03	26.2	31	SF		4	E		29		F
GOES		0809	0814	0818	S11	E37	9389			9	SF	C 4.6					1.8E-03	
LEAR		0811	0814	0834	S11	E37	9389	03	27.1	23	SF		4	E		59		FE
SVTO		0811	0814	0837	S14	E36	9389	03	27.1	26	SF		3	E		60		FE
LEAR		0850	0850	0854	N13	E22	9390	03	26.0	4	SF		4	E		19		F
LEAR		0902	0907	0923	N20	E65	9393	03	29.3	21	SF		4	E		73		F
GOES		0903	0908	0914	N20	E65	9393			11	SF	C 4.0					2.3E-03	
SVTO		0936	0936	0952	S14	E36	9389	03	27.1	16	SF		3	E		12		F
GOES		1147	1151	1156						9		C 2.2					1.1E-03	
GOES		1317	1323	1330						13		C 2.2					1.6E-03	
HOLL		1412	1414	1418	N16	E60	9393	03	29.1	6	SF		3	E		55		
HOLL		1420	1424	1500	N16	E59	9393	03	29.1	40	SF		3	E		49		F
GOES		1420	1432	1436	N16	E59	9393			16	SF	C 5.8					4.5E-03	
SVTO		1421	1432	1448D	N14	E57	9393	03	28.9	27D	SF		3	E		33		F
RAMY		1422	1423	1438	N16	E59	9393	03	29.1	16	SF		3	E		22		
RAMY		1441	1442	1451	N15	E58	9393	03	29.0	10	SF		3	E		15		F
HOLL		1525	1526	1531	N16	E58	9393	03	29.0	6	SF		3	E		30		F
HOLL		1640	1645	1649	N16	E58	9393	03	29.1	9	SF		3	E		26		F
HOLL		1710	1711	1721	N16	E58	9393	03	29.1	11	SF		3	E		16		
GOES		1726	1737	1752	N20	E68				26	SF	C 3.7					5.0E-03	
HOLL		1728	1730	1744	N20	E68		03	29.9	16	SF		3	E		41		
HOLL		1853	1857	1901	S10	E76		03	30.5	8	SF		3	E		24		
RAMY		1854	1856	1901	S12	E76		03	30.5	7	SF		3	E		28		
GOES		1935	1955	2047	N15	E22	9390			72	2N	M 1.7					4.8E-02	
HOLL		1937	1952	2147	N15	E22	9390	03	26.5	130	2N		3	E		307		UF
HOLL		2032	2032	2036	S11	E75	9397	03	30.5	4	SF		3	E		13		
HOLL		2040	2047	2050	S11	E75	9397	03	30.5	10	SF		3	E		31		
HOLL		2042	2046	2058	N19	E58	9393	03	29.3	16	SF		3	E		14		
HOLL		2103	2105	2108	S11	E74	9397	03	30.4	5	SF		3	E		26		
HOLL		2205	2206	2209	S10	E73	9397	03	30.4	4	SF		3	E		21		
HOLL		2245	2245	2250	N20	E66		03	30.0	5	SF		3	E		17		
HOLL		2255	2256	2259	N20	E66		03	30.0	4	SF		3	E		35		
HOLL		2258	2258	2302	S11	E75	9397	03	30.6	4	SF		3	E		30		
HOLL		2300	2315	2341	N19	E60		03	29.5	41	1F		3	E		128		F
LEAR		2303E	2314	2339	N22	E65		03	29.9	36D	SF		3	E		59		F
GOES		2304	2318	2330	N19	E60	9393			26	1F	M 1.1					1.3E-02	
LEAR		2306	2314	2339	N22	E65		03	29.9	33	SF		3	E		59		F
HOLL		2312	2320	2326	S11	E73	9397	03	30.4	14	SF		3	E		72		
LEAR		2314	2318	2322	S10	E75	9397	03	30.6	8	SF		3	E		28		
HOLL		2322	2328	2347	N19	E57	9393	03	29.3	25	SF		3	E		47		F
LEAR		2353	2354	2415	N23	E61		03	29.7	22	SF		4	E		36		F
LEAR	25	0134	0136	0150	S09	E72	9397	03	30.5	16	SF		4	E		23		
LEAR		0202	0202	0210	S10	E73	9397	03	30.6	8	SF		4	E		20		
LEAR		0246	0254	0301	N14	E18	9390	03	26.5	15	SF		4	E		40		UF
GOES		0412	0424	0431	N17	E51	9393			19	2N	M 2.5					1.8E-02	
LEAR		0415	0424	0457	N17	E51	9393	03	29.0	42	2N		4	E		250		FE
GOES		0532	0540	0550	N15	E14	9390			18	SF	C 3.4					3.1E-03	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
LEAR	25	0533	0534	0545	N15	E14	9390	03	26.3	12	SF		4	E		16		
LEAR		0657	0700	0717	N20	E48	9393	03	29.0	20	SF		4	E		22		
LEAR		0745	0745	0755	N15	E13	9390	03	26.3	10	SF		4	E		12		
LEAR		0855	0901	0905	N22	E59		03	29.9	10	SF		3	E		16		F
LEAR		0926	0933	1001	N23	E59		03	29.9	35	SF		3	E		36		H
GOES		1033	1116	1120	N21	E59				47	1N	M 2.6						3.2E-02
SVTO		1037E	1115U	1134	N21	E59		03	30.0	57D	1N		2	E		180		F
HOLL		1437	1441	1509	N14	E10	9390	03	26.4	32	SF		3	E		45		F
RAMY		1438	1446	1512	N14	E08	9390	03	26.2	34	SF		3	E		42		F
RAMY		1546	1550	1607	N13	E08	9390	03	26.3	21	SF		3	E		13		F
HOLL		1546	1552	1603	N10	E04	9390	03	25.9	17	SF		3	E		14		F
GOES		1625	1636	1710	N16	E25	9402			45	1F	C 9.0						1.9E-02
HOLL		1626	1632	1742	N16	E25	9402	03	27.6	76	1F		3	E		132		UF
RAMY		1626	1638	1739	N17	E21	9402	03	27.3	73	1F		3	E		152		F
GOES		2009	2017	2022	N19	E57	9401			13	SF	C 9.4						4.9E-03
HOLL		2012	2016	2025	N19	E57	9401	03	30.2	13	SF		3	E		53		FE
GOES		2048	2054	2100	N15	E07	9390			12	SF	C 4.1						2.5E-03
HOLL		2050	2052	2106	N15	E07	9390	03	26.4	16	SF		3	E		30		E
GOES		2223	2232	2241	N16	E39	9393			18	SF	C 3.5						3.3E-03
HOLL		2225	2230	2239	N16	E39	9393	03	28.9	14	SF		3	E		26		
GOES	26	0038	0054	0104	N20	E39	9393			26	SF	C 6.2						6.6E-03
LEAR		0045	0052	0116	N20	E39	9393	03	29.0	31	SF		3	E		44		F
GOES		0228	0239	0246	N20	E51	9401			18	1N	M 2.7						1.6E-02
LEAR		0230	0236	0314	N20	E51	9401	03	30.0	44	1N		3	E		166		ZF
LEAR		0335	0335	0343	N14	W01	9390	03	26.1	8	SF		4	E		11		F
LEAR		0404	0411	0421	S12	E73		03	31.7	17	SF		3	E		38		
LEAR		0441	0442	0454	S12	E73		03	31.7	13	SF		3	E		40		
LEAR		0758	0845	0859	N20	E34	9393	03	28.9	61	SF		3	E		38		EF
LEAR		0906	0910	0916	N24	E48	9401	03	30.1	10	SF		3	E		18		
LEAR		0926	1001	1001D	N24	E48	9401	03	30.1	35D	SF		3	E		28		
LEAR		0937	0940	0954	S11	E55	9397	03	30.5	17	SF		3	E		28		
GOES		1004	1010	1024						20		C 7.2						7.3E-03
GOES		1303	1326	1344	N15	E27	9393			41	1F	M 2.2						3.7E-02
RAMY		1306	1321	1423	N15	E27	9393	03	28.6	77	1F		3	E		198		F
RAMY		1317	1322	1349	N15	E18	9402	03	27.9	32	SF		3	E		26		
HOLL		1345	1347	1349	N13	E26	9393	03	28.5	4	SF		3	E		14		
HOLL		1403	1403	1421	N13	E26	9393	03	28.5	18	SF		3	E		69		
GOES		1434	1437	1440						6		C 4.2						1.4E-03
HOLL		1456	1457	1500	S13	E09	9389	03	27.3	4	SF		3	E		15		F
HOLL		1504	1505	1514	S13	E12	9389	03	27.5	10	SF		3	E		18		F
HOLL		1528	1530	1544	S05	W26	9396	03	24.7	16	SF		3	E		21		
GOES		1620	1623	1626	N16	E42	9401			6	SF	C 2.8						8.7E-04
HOLL		1622	1622	1629	N16	E42	9401	03	29.9	7	SF		3	E		13		F
RAMY		1703	1706U	1719	S05	W29	9396	03	24.5	16	SF		3	E		19		H
GOES		1801	1912	1929			9401			88		C 6.3						2.6E-02
RAMY		1805	1806	1833	N16	E26	9393	03	28.7	28	SF		3	E		14		F
RAMY		1809	1815	1839	N21	E48	9401	03	30.4	30	SF		3	E		93		FH
RAMY		1832	1842	1846	S05	W30	9396	03	24.5	14	SF		3	E		35		F
RAMY		1834	1842	1847	N15	E25	9393	03	28.7	13	SF		3	E		16		
RAMY		1842	1842	1845	N19	E41	9401	03	29.9	3	SF		3	E		14		
HOLL		1847	1848	1852	N15	E27	9393	03	28.8	5	SF		3	E		41		F
RAMY		1918	1920	1931	N20	E33	9393	03	29.3	13	SF		3	E		13		F
RAMY		2024	2028	2035	N15	E23	9393	03	28.6	11	SF		3	E		18		F
RAMY		2028	2029	2034	N19	E35	9401	03	29.5	6	SF		3	E		16		F
LEAR	27	0047	0049	0120	N16	W11	9390	03	26.2	33	SF		3	E		29		F
GOES		0047	0055	0107	N16	W11	9390			20	SF	C 4.2						4.8E-03
GOES		0222	0247	0341	N14	E17	9393			79	SF	C 7.3						2.7E-02
LEAR		0225	0227	0402	N14	E17	9393	03	28.4	97	SF		3	E		56		FH
LEAR		0357	0358	0402	S12	E57	9403	03	31.4	5	SF		3	E		10		
LEAR		0357	0410	0443	S07	W34	9396	03	24.6	46	SF		3	E		28		
LEAR		0402	0403	0412	N19	E20	9393	03	28.7	10	SF		3	E		52		F
LEAR		0413	0413	0422	N20	E34	9401	03	29.8	9	SF		3	E		35		F
LEAR		0446	0452	0515	S07	W36	9396	03	24.5	29	SF		3	E		52		F
LEAR		0529	0533	0546	S07	W36	9396	03	24.5	17	SF		3	E		27		F
LEAR		0611	0615	0625	N20	E34	9401	03	29.8	14	SF		3	E		29		
LEAR		0656	0700	0704	N21	E36	9401	03	30.0	8	SF		3	E		20		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
							Region	Mo Day						Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)
GOES	27	0752	0807	0827	N16	E04	9402		35	SF	C	6.3				1.1E-02
LEAR		0755	0757	0849	N16	E04	9402	03	27.6	54	SF		3	E	59	FH
LEAR		0805	0807	0814	N15	E14	9393	03	28.4	9	SF		3	E	19	F
LEAR		0805	0811	0817	N18	W12	9390	03	26.4	12	SF		3	E	21	F
LEAR		0925	0927	0945	S11	W11	9389	03	26.6	20	SF		3	E	14	F
RAMY		1122	1123	1135	N14	E13	9393	03	28.4	13	SF		3	E	39	F
RAMY		1153	1205	1217	N19	E32	9401	03	29.9	24	SF		3	E	20	FH
GOES		1215	1222	1236	N19	E32	9401			21	SF	C	4.5			4.8E-03
RAMY		1217	1219	1233	N14	E13	9393	03	28.5	16	SF		3	E	43	F
RAMY		1219	1222	1244	N19	E30	9401	03	29.8	25	SF		3	E	53	F
RAMY		1423	1429	1443	N21	E33	9401	03	30.1	20	SF		3	E	15	F
SVTO		1424	1426	1429	N22	E33	9401	03	30.1	5	SF		3	E	11	F
HOLL		1424	1430	1442	N20	E34	9401	03	30.2	18	SF		3	E	13	F
HOLL		1448	1449	1538	N15	E14	9393	03	28.7	50	SF		3	E	28	ZF
GOES		1448	1512	1546	N15	E14	9393			58	SF	C	5.6			1.7E-02
RAMY		1449	1451	1541	N15	E13	9393	03	28.6	52	SF		3	E	25	F
HOLL		1453	1454	1458	S08	E37	9397	03	30.4	5	SF		3	E	12	
HOLL		1507	1509	1516	N20	E32	9401	03	30.1	9	SF		3	E	50	
HOLL		1539	1544	1549	N14	E12	9393	03	28.5	10	SF		3	E	12	
RAMY		1542	1545	1557	N13	E12	9393	03	28.5	15	SF		3	E	20	F
HOLL		1600	1607	1739	S11	E55	9403	03	31.8	99	SF		3	E	60	
RAMY		1622	1623	1627	N22	E34	9401	03	30.3	5	SF		3	E	14	FH
HOLL		1623	1631	1638	N21	E33	9401	03	30.2	15	1N		3	E	119	
GOES		1625	1630	1632	N21	E33	9401			7	1N	M	2.2			4.8E-03
RAMY		1627	1631	1638	N24	E36	9401	03	30.5	11	1B		3	E	144	FH
RAMY		1649	1649	1653	N21	E33	9401	03	30.2	4	SF		3	E	13	F
HOLL		1649	1652	1655	N21	E33	9401	03	30.2	6	SF		3	E	26	
HOLL		1744	1746	1751	S10	E56	9403	03	31.9	7	SF		3	E	14	
GOES		1826	1831	1837	N14	E11	9393			11	SF	C	4.2			2.4E-03
HOLL		1828	1828	1836	N14	E09	9393	03	28.4	8	SF		3	E	18	
RAMY		1828	1829	1835	N14	E11	9393	03	28.6	7	SF		3	E	21	F
HOLL		1850	1850	1900	S10	E54	9403	03	31.8	10	SF		3	E	11	
HOLL		1901	1903	1908	S08	E35	9397	03	30.4	7	SF		3	E	17	FH
GOES		1910	1918	1930	N16	W18	9390			20	SF	C	5.6			5.8E-03
HOLL		1912	1913	1923	N16	W18	9390	03	26.4	11	SF		3	E	45	FH
HOLL		2017	2019	2025	S08	E35	9397	03	30.5	8	SF		3	E	20	F
GOES		2023	2027	2033	S08	E35	9397			10	SF	C	8.2			4.2E-03
HOLL		2025	2029	2046	N14	E08	9393	03	28.4	21	SF		3	E	33	F
GOES		2110	2113	2115						5		C	5.3			1.4E-03
HOLL		2112	2114	2124	S09	E52	9403	03	31.8	12	SF		3	E	43	FH
HOLL		2127	2137	2150	N13	E10	9393	03	28.6	23	SF		3	E	15	F
HOLL		2129	2133	2135	S10	E54	9403	03	31.9	6	SF		3	E	21	F
GOES	28	0046	0050	0053	S08	E50	9403			7	SF	C	7.1			2.2E-03
LEAR		0048	0050	0056	S08	E50	9403	03	31.8	8	SF		3	E	83	
LEAR		0127	0129	0137	N20	E22	9401	03	29.7	10	SF		3	E	17	
GOES		0129	0138	0150	N20	E22	9401			21	SF	C	5.6			
GOES		0155	0158	0206	N14	E05	9393			11	SF	M	1.1			5.9E-03
LEAR		0156	0157	0237	N14	E05	9393	03	28.4	41	SF		3	E	63	FH
LEAR		0358	0358	0405	S09	E50		03	31.9	7	SF		3	E	20	
GOES		0426	0430	0432	S09	E49				6	SF	C	4.0			1.3E-03
LEAR		0429	0429	0440	S09	E49		03	31.9	11	SF		3	E	38	F
LEAR		0554	0555	0601	S07	E28	9397	03	30.3	7	SF		4	E	14	F
GOES		0630	0640	0705	N18	E10	9393			35	SF	C	5.7			1.0E-02
SVTO		0632	0639	0712	N19	E10	9393	03	29.0	40	SF		3	E	43	F
LEAR		0632	0658	0720	N18	E10	9393	03	29.0	48	SF		4	E	33	F
LEAR		0730	0730	0739	N15	E01	9393	03	28.4	9	SF		4	E	16	
GOES		0844	0918	0924	S08	E46	9393			40	SF	C	8.2			1.2E-02
LEAR		0849	0852	0855	S08	E46		03	31.8	6	SF		4	E	14	
SVTO		0850	0850	0855	S08	E46		03	31.8	5	SF		3	E	15	
LEAR		0900	0909	0927	N16	E04	9393	03	28.7	27	SF		4	E	40	F
LEAR		0904	0911	0953	N17	W10	9402	03	27.6	49	1F		4	E	201	F
SVTO		0909	0912	0926	N16	W08	9402	03	27.8	17	SF		3	E	60	F
LEAR		0916	0917	0928	N19	E19	9401	03	29.8	12	SF		4	E	41	UF
GOES		0942	0947	0953	N17	E05	9393			11	SN	M	1.3			6.3E-03
SVTO		0945	0947	0954	N18	E06	9393	03	28.9	9	SF		3	E	24	F
LEAR		0945	0947	1000	N17	E05	9393	03	28.8	15	SN		4	E	81	FE
GOES		1042	1047	1050	S07	E25	9397			8	SN	C	9.9			2.9E-03

H α SOLAR FLARES

MARCH 2001

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur (Min)	Imp	Obs	Area Measurement			Remarks
							USAF Region					Mo	Day	Time (UT)		Apparent (10-6 Disk)	Corr (Sq Deg)
LEAR	30	0300	0317	0326	N13	W23	9393	03	28.4	26	SF	4	E	41	F
LEAR		0312	0317	0325	N20	W04	9401	03	29.8	13	SF	4	E	47	F
LEAR		0336	0336	0344	N13	W24	9393	03	28.3	8	SF	4	E	18	
GOES		0346	0350	0353	N17	W16	9393			7	SF	C 4.4			1.7E-03
LEAR		0347	0353	0405	N17	W16	9393	03	28.9	18	SF	4	E	25	F
LEAR		0425	0430	0440	N13	W25	9393	03	28.3	15	SF	4	E	85	F
LEAR		0441	0515	0605	N14	W24	9393	03	28.4	84	1N	3	E	218	ZF
LEAR		0444	0502	0536	N20	W04	9401	03	29.9	52	1F	3	E	182	F
GOES		0511	0515	0520			9393			9	M 2.2				1.1E-02
LEAR		0607	0610	0626	N17	W18	9393	03	28.9	19	SF	3	E	40	F
LEAR		0627	0643	0656	N14	W24	9393	03	28.4	29	SF	3	E	94	F
LEAR		0629	0630	0642	S13	W52	9389	03	26.3	13	SF	3	E	18	
LEAR		0757	0757	0805	N17	W19	9393	03	28.9	8	SF	3	E	37	F
LEAR		0907	0909	0925	S07	E33	9404	04	1.8	18	SF	3	E	36	F
LEAR		0916	0923	0950	S12	W05	9397	03	30.0	34	1N	3	E	186	FE
GOES		0916	0928	0936	N17	W20	9393			20	SF	M 1.0			1.0E-02
LEAR		0931	0945	0953	N17	W20	9393	03	28.9	22	SF	3	E	45	F
GOES		1036	1040	1043						7	C 7.7				2.4E-03
GOES		1106	1110	1111						5	C 4.5				1.1E-03
RAMY		1131	1131	1143	S11	W42	9405	03	27.3	12	SF	3	E	20	F
GOES		1504	1510	1517	N16	W24	9393			13	SF	C 4.7			3.2E-03
HOLL		1509	1511	1556	N16	W24	9393	03	28.8	47	SF	3	E	19	F
RAMY		1512	1513	1519	S10	W05	9397	03	30.2	7	SF	3	E	10	
HOLL		1522	1523	1532	S08	W04	9397	03	30.3	10	SF	3	E	14	
GOES		1522	1528	1548	S08	W04	9397			26	SF	C 4.9			7.5E-03
RAMY		1532	1537	1551	N15	W24	9393	03	28.8	19	SF	3	E	20	F
GOES		1714	1718	1722	S08	E25	9404			8	SF	C 5.2			2.2E-03
HOLL		1717	1717	1725	S08	E25	9404	04	1.6	8	SF	3	E	22	
HOLL		1744	1749	1759	N17	W26	9393	03	28.8	15	SF	3	E	18	F
HOLL		1804	1807	1812	N16	W26	9393	03	28.8	8	SF	3	E	13	
HOLL		1816	1819	1822	N17	W26	9393	03	28.8	6	SF	3	E	18	
GOES		1819	1840	1853	N17	W26	9393			34	SF	C 4.7			8.9E-03
HOLL		2206	2207	2211	N13	W33	9393	03	28.4	5	SF	3	E	13	
HOLL		2327	2328	2355	N13	W28	9393	03	28.9	28	SF	3	E	55	F
LEAR		2328	2329	2341	N11	W29	9393	03	28.8	13	SF	3	E	29	F
HOLL	31	0002	0005	0013	N19	W20	9393	03	29.5	11	SF	3	E	14	F
LEAR		0023	0030	0107	N19	W23	9393	03	29.3	44	SF	3	E	36	F
GOES		0023	0031	0038	N19	W23	9393			15	SF	C 5.3			4.2E-03
GOES		0104	0104	0104						15	C 3.2				
GOES		0223	0225	0227	N17	W29	9393			4	SF	C 3.2			7.0E-04
LEAR		0223	0228	0240	N17	W29	9393	03	28.9	17	SF	3	E	51	F
GOES		0304	0336	0351	N17	W30	9393			47	SF	C 4.1			1.0E-02
LEAR		0306	0307	0310	N17	W30	9393	03	28.8	4	SF	3	E	15	F
LEAR		0552	0553	0557	S12	W67	9389	03	26.2	5	SF	3	E	10	
LEAR		0637	0639	0643	N14	W34	9393	03	28.7	6	SF	3	E	15	
GOES		0701	0709	0727	S05	E20	9404			26	SF	C 4.9			6.5E-03
LEAR		0703	0704	0731	S05	E20	9404	04	1.8	28	SF	3	E	76	F
LEAR		0824	0824	0835	N15	W35	9393	03	28.7	11	SF	3	E	12	F
GOES		1100	1112	1131	N16	W34	9393			31	SF	M 2.1			2.8E-02
RAMY		1106	1110	1141	N16	W34	9393	03	28.9	35	SF	3	E	92	F
RAMY		1319	1321	1327	S09	W75	9389	03	25.9	8	SF	3	E	89	
HOLL		1348	1349	1351	S10	W68	9389	03	26.5	3	SF	3	E	19	
HOLL		1450	1450	1500	S11	W72	9389	03	26.2	10	SF	3	E	12	F
RAMY		1451	1451	1455	S10	W74	9389	03	26.0	4	SF	3	E	11	
RAMY		1531	1532	1539	N14	W37	9393	03	28.8	8	SF	3	E	21	F
HOLL		1532	1533	1538	N14	W36	9393	03	28.9	6	SF	3	E	18	F
HOLL		1559	1600	1606	S11	W73	9389	03	26.2	7	SF	3	E	11	
RAMY		1600	1602	1606	S10	W78	9389	03	25.8	6	SF	3	E	16	
HOLL		1613	1614	1628	S09	E00	9408	03	31.7	15	SF	3	E	24	F
RAMY		1615	1615	1622	S11	W01	9408	03	31.6	7	SF	3	E	13	F
GOES		1949	1953	1959						10	C 3.9				2.1E-03
GOES		2149	2153	2158	N20	W26	9401			9	SF	C 3.4			1.6E-03
HOLL		2151	2153	2202	N20	W26	9401	03	29.9	11	SF	3	E	67	F
LEAR		2309	2313	2318	S09	W01	9408	03	31.9	9	SF	3	E	12	
HOLL		2309	2314	2316	S10	W02	9408	03	31.8	7	SF	3	E	14	

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

MARCH 2001

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
06	8800 PALE	8 S	2141.0	2141.0	1.0	65.0			QL=4 ST=2 TYP=3
08	8800 SVTO	49 GB	1115.0	1116.0	4.0	550.0			QL=4 ST=2 TYP=6
	2695 SVTO	4 S/F	1116.0	1118.0	3.0	82.0			QL=4 ST=2 TYP=3
	8800 SGMR	20 GRF	1611.0	1645.0	47.0	51.0			QL=4 ST=2 TYP=2
09	2695 LEAR	8 S	0155.0	0155.0	1.0	120.0			QL=2 ST=2 TYP=3
	2695 PALE	8 S	0155.0	0155.0	1.0	92.0			QL=4 ST=2 TYP=3
	8800 PALE	8 S	0155.0	0155.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695 LEAR	4 S/F	2321.0	2323.0	3.0	93.0			QL=2 ST=2 TYP=3
	8800 LEAR	8 S	2323.0	2323.0	U	38.0			QL=2 ST=2 TYP=3
	8800 PALE	8 S	2323.0	2323.0	1.0	53.0			QL=4 ST=2 TYP=3
	2695 PALE	8 S	2323.0	2323.0	1.0	97.0			QL=4 ST=2 TYP=3
10	8800 LEAR	49 GB	0402.0	0403.0	3.0	830.0			QL=2 ST=2 TYP=6
	2695 LEAR	8 S	0403.0	0403.0	2.0	110.0			QL=2 ST=2 TYP=3
	8800 PALE	8 S	0403.0	0403.0	1.0	400.0			QL=4 ST=2 TYP=3
	2695 PALE	8 S	0403.0	0403.0	1.0	76.0			QL=4 ST=2 TYP=3
17	2695 SGMR	4 S/F	1714.0	1717.0	4.0	18.0			QL=4 ST=2 TYP=3
	2695 PALE	8 S	1717.0	1717.0	U	24.0			QL=4 ST=2 TYP=3
19	8800 LEAR	8 S	2318.0	2318.0	2.0	62.0			QL=2 ST=2 TYP=3
	2695 LEAR	8 S	2318.0	2318.0	1.0	57.0			QL=2 ST=2 TYP=3
	2695 PALE	8 S	2318.0	2319.0	2.0	60.0			QL=4 ST=2 TYP=3
	8800 PALE	8 S	2318.0	2318.0	2.0	59.0			QL=4 ST=2 TYP=3
20	8800 LEAR	8 S	0331.0	0332.0	1.0	29.0			QL=2 ST=2 TYP=3
	2695 PALE	8 S	0332.0	0332.0	U	27.0			QL=4 ST=2 TYP=3
	8800 SVTO	4 S/F	1502.0	1504.0	5.0	81.0			QL=4 ST=2 TYP=3
	2695 SVTO	4 S/F	1502.0	1504.0	4.0	30.0			QL=4 ST=2 TYP=3
	8800 SGMR	4 S/F	1502.0	1504.0	10.0	92.0			QL=4 ST=2 TYP=3
21	2695 LEAR	8 S	0234.0	0235.0	1.0	43.0			QL=2 ST=2 TYP=3
	2695 PALE	4 S/F	0234.0	0235.0	4.0	39.0			QL=4 ST=2 TYP=3
	2695 SVTO	8 S	0916.0	0916.0	1.0	82.0			QL=4 ST=2 TYP=3
	2695 SGMR	8 S	1125.0	1125.0	1.0	83.0			QL=4 ST=2 TYP=3
	8800 SGMR	8 S	1125.0	1125.0	1.0	150.0			QL=4 ST=2 TYP=3
	8800 SVTO	8 S	1125.0	1125.0	1.0	200.0			QL=4 ST=2 TYP=3
	2695 SVTO	8 S	1125.0	1125.0	1.0	100.0			QL=4 ST=2 TYP=3
22	2695 SVTO	8 S	1310.0	1310.0	1.0	47.0			QL=4 ST=2 TYP=3
	8800 SVTO	8 S	1310.0	1311.0	2.0	130.0			QL=4 ST=2 TYP=3
	8800 SGMR	8 S	1311.0	1311.0	U	34.0			QL=2 ST=2 TYP=3
23	8800 SGMR	8 S	1855.0	1856.0	1.0	57.0			QL=4 ST=2 TYP=3
24	2695 LEAR	8 S	0134.0	0135.0	2.0	97.0			QL=2 ST=2 TYP=3
	8800 PALE	4 S/F	0134.0	0135.0	3.0	150.0			QL=4 ST=2 TYP=3
	8800 LEAR	8 S	0135.0	0135.0	1.0	130.0			QL=2 ST=2 TYP=3
	2695 PALE	8 S	0135.0	0135.0	1.0	140.0			QL=4 ST=2 TYP=3
	2695 PALE	4 S/F	1659.0	1702.0	6.0	99.0			QL=4 ST=2 TYP=3
	2695 PALE	4 S/F	1946.0	1947.0	12.0	85.0			QL=4 ST=2 TYP=3
	8800 SGMR	20 GRF	1946.0	1955.0	18.0	37.0			QL=4 ST=2 TYP=2
	2695 SGMR	4 S/F	1946.0	1947.0	18.0	68.0			QL=4 ST=2 TYP=3
	2695 PALE	20 GRF	2010.0	2015.0	9.0	71.0			QL=4 ST=2 TYP=2
	8800 SGMR	20 GRF	2044.0	2113.0	74.0	56.0			QL=4 ST=2 TYP=2
	2695 PALE	8 S	2046.0	2048.0	2.0	41.0			QL=4 ST=2 TYP=3
	2695 SGMR	20 GRF	2059.0	2105.0	59.0	56.0			QL=4 ST=2 TYP=2
	8800 PALE	4 S/F	2315.0	2317.0	4.0	38.0			QL=4 ST=2 TYP=3
25	8800 LEAR	4 S/F	0346.0	0347.0	6.0	69.0			QL=2 ST=2 TYP=3
	8800 LEAR	49 GB	0414.0	0417.0	10.0	610.0			QL=2 ST=2 TYP=6
	2695 LEAR	4 S/F	0415.0	0417.0	5.0	170.0			QL=2 ST=2 TYP=3
	2695 PALE	4 S/F	0415.0	0418.0	5.0	160.0			QL=4 ST=2 TYP=3
	8800 PALE	49 GB	0416.0	0417.0	3.0	520.0			QL=4 ST=2 TYP=6
	2695 SVTO	4 S/F	1107.0	1112.0	6.0	26.0			QL=4 ST=2 TYP=3
	2695 SVTO	4 S/F	1108.0	1109.0	18.0	25.0			QL=4 ST=2 TYP=3
	8800 SVTO	4 S/F	1109.0	1115.0	13.0	400.0			QL=4 ST=2 TYP=3

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

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MARCH 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
25	2695	SVTO	4 S/F	1111.0	1115.0	8.0	210.0			QL=4 ST=3 TYP=3
	8800	SGMR	4 S/F	1112.0	1115.0	10.0	400.0			QL=2 ST=2 TYP=3
	2695	SGMR	4 S/F	1112.0	1115.0	10.0	220.0			QL=2 ST=2 TYP=3
	8800	SVTO	49 GB	1351.0	1352.0	2.0	3000.0			QL=4 ST=2 TYP=6
	2695	SGMR	20 GRF	1637.0	1638.0	44.0	170.0			QL=4 ST=2 TYP=2
	8800	SGMR	4 S/F	1637.0	1637.0	44.0	82.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1702.0	1703.0	1.0	58.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2013.0	2015.0	5.0	61.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2014.0	2014.0	U	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2014.0	2016.0	4.0	46.0			QL=4 ST=2 TYP=3
26	2695	SVTO	8 S	1005.0	1005.0	1.0	28.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1026.0	1026.0	1.0	24.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1309.0	1313.0	42.0	42.0			QL=4 ST=2 TYP=3
	8800	SGMR	20 GRF	1309.0	1326.0	59.0	63.0			QL=4 ST=2 TYP=2
	8800	SGMR	4 S/F	2008.0	2010.0	16.0	40.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2009.0	2010.0	15.0	27.0			QL=4 ST=2 TYP=3
27	2695	PALE	8 S	0225.0	0225.0	1.0	64.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0225.0	0225.0	1.0	120.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0232.0	0232.0	4.0	99.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0242.0	0243.0	4.0	89.0			QL=2 ST=2 TYP=3
	2695	SGMR	46 C	1447.0	1449.0	27.0	33.0			QL=4 ST=2 TYP=8
	8800	SGMR	4 S/F	1447.0	1449.0	27.0	150.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1449.0	1449.0	1.0	92.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1449.0	1449.0	1.0	22.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1627.0	1629.0	3.0	500.0			QL=2 ST=2 TYP=3
	2695	SVTO	4 S/F	1627.0	1629.0	3.0	200.0			QL=2 ST=2 TYP=3
	2695	SGMR	4 S/F	1628.0	1629.0	7.0	230.0			QL=4 ST=2 TYP=3
	8800	SGMR	49 GB	1628.0	1629.0	7.0	690.0			QL=4 ST=2 TYP=6
	8800	SGMR	4 S/F	1827.0	1828.0	4.0	43.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	1919.0	1921.0	5.0	56.0			QL=4 ST=2 TYP=3
8800	PALE	8 S	2025.0	2026.0	1.0	45.0			QL=4 ST=2 TYP=3	
28	8800	LEAR	8 S	0048.0	0049.0	1.0	53.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0157.0	0158.0	2.0	62.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	0631.0	0632.0	4.0	51.0			QL=4 ST=2 TYP=3
	8800	SVTO	20 GRF	0908.0	0919.0	52.0	23.0			QL=4 ST=2 TYP=2
	8800	SVTO	4 S/F	0943.0	0944.0	5.0	180.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0944.0	0944.0	1.0	150.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	1045.0	1046.0	3.0	180.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1046.0	1046.0	2.0	61.0			QL=4 ST=2 TYP=3
	2695	SVTO	48 C	1112.0	1120.0	30.0	78.0			QL=4 ST=2 TYP=8
	2695	SGMR	20 GRF	1115.0	1125.0	21.0	74.0			QL=4 ST=2 TYP=2
	8800	SGMR	20 GRF	1115.0	1125.0	21.0	120.0			QL=4 ST=2 TYP=2
	8800	SVTO	20 GRF	1119.0	1148.0	39.0	100.0			QL=4 ST=2 TYP=2
	8800	SGMR	48 C	1138.0	1210.0	80.0	340.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1152.0	1214.0	66.0	250.0			QL=4 ST=2 TYP=8
	8800	SVTO	8 S	1204.0	1205.0	1.0	53.0			QL=4 ST=2 TYP=3
	2695	SVTO	48 C	1208.0	1214.0	15.0	250.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1900.0	1903.0	7.0	68.0			QL=4 ST=2 TYP=8
	2695	PALE	4 S/F	2231.0	2232.0	3.0	61.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2231.0	2233.0	7.0	96.0			QL=4 ST=2 TYP=3
	2695	PALE	20 GRF	2240.0	2309.0	33.0	130.0			QL=4 ST=2 TYP=2
	2695	LEAR	4 S/F	2255.0	2257.0	4.0	56.0			QL=2 ST=2 TYP=3
	8800	PALE	8 S	2255.0	2255.0	U	59.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2317.0	2317.0	8.0	71.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2326.0	2326.0	1.0	70.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2326.0	2327.0	6.0	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	2327.0	2327.0	10.0	38.0			QL=2 ST=2 TYP=3
	2695	PALE	8 S	2336.0	2337.0	1.0	110.0			QL=4 ST=2 TYP=3
2695	LEAR	4 S/F	2347.0	2350.0	5.0	75.0			QL=2 ST=2 TYP=3	
2695	PALE	8 S	2349.0	2350.0	1.0	100.0			QL=4 ST=2 TYP=3	
29	8800	LEAR	8 S	0245.0	0245.0	U	35.0			QL=2 ST=2 TYP=3
	8800	LEAR	4 S/F	0252.0	0253.0	4.0	200.0			QL=2 ST=2 TYP=3
	8800	PALE	8 S	0253.0	0253.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	48 C	0958.0	1011.0	21.0	13000.0			QL=2 ST=2 TYP=8
	2695	LEAR	48 C	0958.0	1011.0	21.0	4700.0			QL=2 ST=2 TYP=8

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

MARCH 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
29	2695	SVTO	49 GB	1004.0	1011.0U	27.0	3500.0			QL=4 ST=2 TYP=6
	8800	SVTO	48 C	1004.0	1011.0U	29.0	6900.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1101.0	1105.0	13.0	55.0			QL=4 ST=2 TYP=8
	8800	SGMR	4 S/F	1243.0	1245.0	8.0	57.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1247.0	1248.0	4.0	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1301.0	1302.0	45.0	69.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1302.0	1302.0	1.0	41.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1302.0	1302.0	44.0	61.0			QL=4 ST=2 TYP=3
30	8800	LEAR	4 S/F	0423.0	0426.0	1177.0	74.0			QL=2 ST=1 TYP=3
	2695	LEAR	4 S/F	0425.0	0427.0	1175.0	91.0			QL=2 ST=1 TYP=3
	2695	SVTO	4 S/F	0505.0E	0515.0U	11.0D	91.0			QL=4 ST=2 TYP=3
	8800	LEAR	48 C	0508.0	0513.0	25.0	380.0			QL=2 ST=2 TYP=8
	8800	SVTO	4 S/F	0512.0E	0513.0U	4.0D	220.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0513.0	0514.0	3.0	110.0			QL=2 ST=2 TYP=3
	2695	PALE	4 S/F	1652.0	1653.0	3.0	140.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2243.0	2245.0	5.0	65.0			QL=4 ST=2 TYP=3
31	8800	LEAR	4 S/F	0632.0	0633.0	4.0	53.0			QL=2 ST=3 TYP=3
	8800	SVTO	8 S	0633.0	0633.0	1.0	36.0			QL=4 ST=2 TYP=3
	8800	SVTO	20 GRF	1102.0	1104.0	25.0	520.0			QL=4 ST=2 TYP=2
	2695	SGMR	4 S/F	1103.0	1104.0	3.0	66.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1103.0	1104.0	8.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1103.0	1104.0	20.0	460.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	2347.0	2348.0	4.0	34.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	2348.0	2348.0	U	130.0			QL=2 ST=2 TYP=3
	8800	PALE	8 S	2348.0	2348.0	U	58.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

LEAR = Learmonth

PALE = Palehua

SGMR = Sagamore Hill

SVTO = San Vito

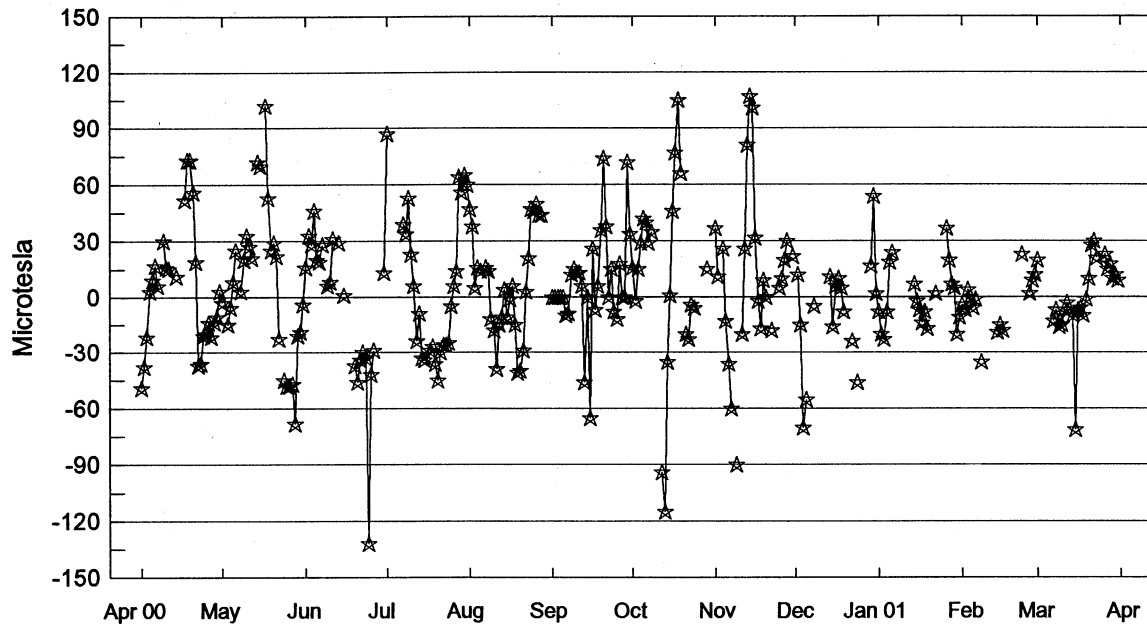
Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	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; and Hiraiso, Japan 500 and 200 MHz.

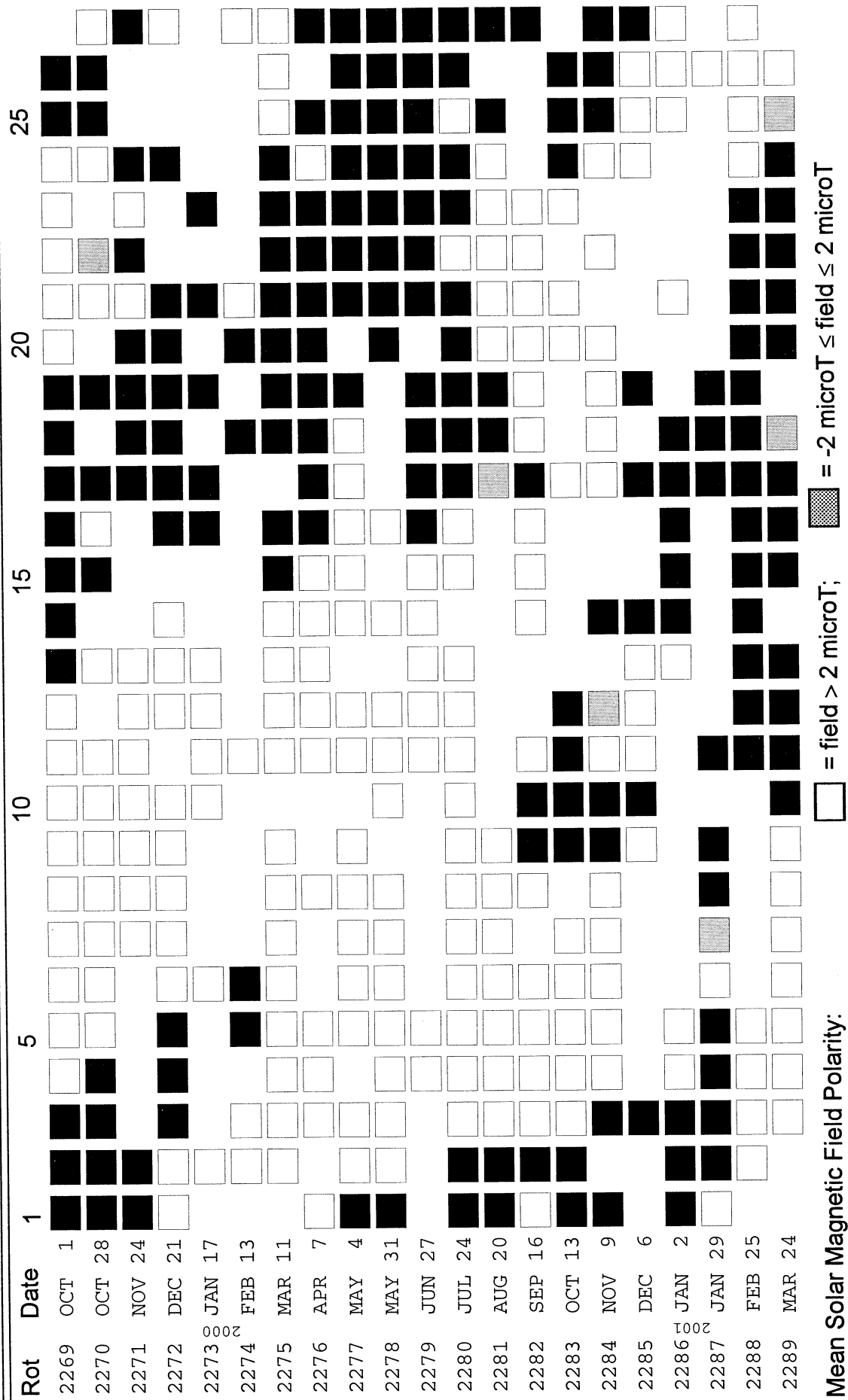
Stanford Mean Solar Magnetic Field (Microtesla) "Sun-As-A-Star"

45
Mar 01



Day	Apr 00	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 01	Feb	Mar
1	-49	-3	16	87	47	---	16	37	---	-8	-4	20
2	-38	---	33	---	38	---	-2	11	12	-20	-7	---
3	-22	-15	28	---	5	---	15	---	-15	-23	4	---
4	3	-6	46	---	16	---	29	26	-70	-8	0	---
5	9	8	20	---	14	0	42	-13	-55	19	-6	---
6	17	25	19	---	---	-10	40	-36	---	24	-1	---
7	6	---	28	39	16	-9	29	-60	---	---	---	-13
8	---	3	---	34	14	12	35	---	-5	---	-35	-7
9	30	20	6	53	-12	15	---	-90	---	---	---	-16
10	26	33	8	23	-18	13	---	---	---	---	---	-15
11	15	27	31	6	-39	13	---	-20	---	---	---	-7
12	---	21	---	-24	-15	6	-94	26	---	---	---	-3
13	---	---	29	-9	-11	-46	-115	81	---	---	---	-7
14	11	72	---	-33	4	---	-35	107	11	7	-19	-10
15	---	70	1	-34	-11	-65	1	101	-16	-2	-15	-71
16	---	---	---	---	-1	26	46	32	6	-7	-18	-7
17	52	102	---	-29	6	-7	77	-2	10	-14	---	-6
18	73	53	---	-27	-15	6	105	-17	5	-8	---	-10
19	73	25	-37	-36	-41	36	66	9	-8	-17	---	-1
20	56	29	-46	-45	-40	74	---	0	---	---	---	10
21	19	22	-34	-30	-29	38	-20	---	---	---	---	28
22	-37	-23	-30	-26	3	---	-23	-18	-24	2	---	30
23	-36	---	-33	-26	21	15	-4	---	---	---	23	21
24	-21	-45	-132	-25	47	-8	-6	---	-46	---	---	---
25	-20	-48	-42	-5	46	-12	---	5	---	---	---	---
26	-14	-48	-29	6	50	18	---	10	---	37	2	23
27	-22	-47	---	14	44	---	---	20	---	20	9	15
28	-14	-68	---	64	44	---	---	30	---	7	12	18
29	-11	-21	---	56	---	72	15	---	17	5	---	10
30	3	-19	13	65	---	34	---	22	54	-20	---	12
31	---	-4	---	60	---	---	---	---	2	-11	---	9

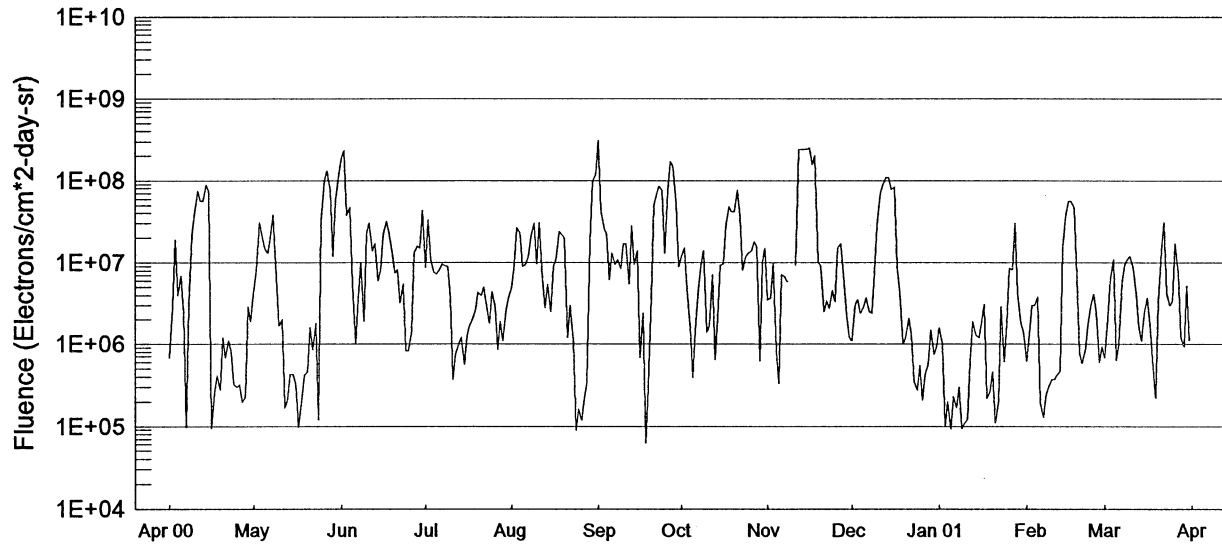
STANFORD MEAN SOLAR MAGNETIC FIELD



Mean Solar Magnetic Field Polarity: □ = field > 2 microT; ■ = field < -2 microT; ▨ = -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.

GOES Daily Electron Fluence Apr 2000 - Mar 2001



Day	Apr 00	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 01	Feb	Mar
1	6.8E+05	4.6E+06	1.9E+08	8.7E+06	5.0E+06	3.1E+08	1.2E+07	3.5E+06	1.1E+06	1.6E+06	6.2E+05	6.8E+05
2	2.9E+06	8.1E+06	2.3E+08	3.3E+07	9.5E+06	4.3E+07	1.5E+07	3.7E+06	3.1E+06	1.0E+06	1.3E+06	2.1E+06
3	1.9E+07	3.1E+07	3.8E+07	1.1E+07	2.7E+07	2.7E+07	4.8E+06	1.0E+07	3.5E+06	1.0E+05	3.0E+06	6.4E+06
4	4.0E+06	2.1E+07	4.7E+07	7.7E+06	2.3E+07	2.2E+07	1.6E+06	8.3E+05	2.4E+06	2.0E+05	3.0E+06	1.1E+07
5	6.9E+06	1.5E+07	5.5E+06	7.3E+06	9.0E+06	6.2E+06	3.9E+05	3.3E+05	2.9E+06	9.2E+04	3.8E+06	6.3E+05
6	2.4E+06	1.3E+07	1.0E+06	8.3E+06	9.4E+06	1.3E+07	1.5E+06	7.1E+06	3.7E+06	2.3E+05	1.9E+05	1.0E+06
7	9.7E+04	2.1E+07	3.7E+06	9.6E+06	1.2E+07	9.5E+06	4.8E+06	6.8E+06	2.5E+06	1.7E+05	1.3E+05	5.8E+06
8	3.1E+06	3.8E+07	1.0E+07	9.2E+06	2.1E+07	1.1E+07	9.5E+06	5.8E+06	2.4E+06	3.0E+05	2.4E+05	9.3E+06
9	2.2E+07	6.6E+06	1.9E+06	9.1E+06	3.0E+07	8.6E+06	1.4E+07	-999	7.6E+06	9.3E+04	3.0E+05	1.1E+07
10	4.1E+07	1.7E+06	2.3E+07	3.7E+06	9.7E+06	1.7E+07	1.4E+06	-999	2.8E+07	1.1E+05	3.7E+05	1.2E+07
11	7.4E+07	2.0E+06	3.0E+07	3.7E+05	3.1E+07	1.7E+07	1.7E+06	9.4E+06	6.9E+07	1.2E+05	3.7E+05	9.1E+06
12	5.7E+07	1.7E+05	1.4E+07	7.4E+05	6.3E+06	5.5E+06	7.1E+06	2.4E+08	8.9E+07	6.1E+05	4.2E+05	4.2E+06
13	5.7E+07	2.1E+05	1.7E+07	1.0E+06	2.8E+06	2.8E+07	6.4E+05	2.4E+08	1.1E+08	1.9E+06	4.7E+05	1.6E+06
14	8.8E+07	4.3E+05	6.0E+06	1.2E+06	5.4E+06	9.5E+06	2.1E+06	2.4E+08	1.1E+08	1.3E+06	1.5E+07	1.1E+06
15	7.4E+07	4.3E+05	8.2E+06	5.7E+05	2.5E+06	1.4E+07	9.4E+06	2.4E+08	7.8E+07	1.2E+06	3.9E+07	2.3E+06
16	9.3E+04	3.2E+05	2.2E+07	1.3E+06	9.1E+06	6.8E+05	9.7E+06	2.5E+08	8.3E+07	1.9E+06	5.7E+07	3.7E+06
17	2.6E+05	9.8E+04	3.2E+07	1.7E+06	1.1E+07	2.4E+06	2.9E+07	1.6E+08	8.9E+06	3.1E+06	5.6E+07	1.8E+06
18	4.1E+05	2.1E+05	2.3E+07	2.1E+06	2.4E+07	6.2E+04	4.8E+07	2.0E+08	4.3E+06	2.2E+05	4.7E+07	6.5E+05
19	2.8E+05	4.2E+05	1.5E+07	2.6E+06	2.2E+07	3.0E+05	4.2E+07	1.0E+07	1.0E+06	2.7E+05	6.8E+06	2.2E+05
20	1.2E+06	4.6E+05	7.6E+06	4.3E+06	2.0E+07	3.9E+06	4.2E+07	9.4E+06	1.2E+06	4.6E+05	7.7E+05	3.4E+06
21	6.8E+05	1.6E+06	8.3E+06	4.0E+06	1.2E+06	5.0E+07	7.6E+07	2.5E+06	2.1E+06	1.1E+05	5.9E+05	1.4E+07
22	1.1E+06	8.6E+05	3.2E+06	5.0E+06	3.0E+06	6.7E+07	3.7E+07	3.4E+06	1.3E+06	2.0E+05	8.2E+05	3.1E+07
23	8.1E+05	1.8E+06	5.5E+06	2.8E+06	1.1E+06	8.6E+07	8.1E+06	2.8E+06	3.5E+05	2.9E+06	1.7E+06	4.2E+06
24	3.2E+05	1.2E+05	8.3E+05	1.8E+06	8.9E+04	7.6E+07	1.2E+07	4.6E+06	2.8E+05	6.1E+05	3.1E+06	3.0E+06
25	3.0E+05	3.2E+07	8.3E+05	4.4E+06	1.6E+05	1.3E+07	1.3E+07	3.3E+06	5.5E+05	1.8E+06	4.1E+06	3.4E+06
26	3.2E+05	1.0E+08	1.4E+06	2.9E+06	1.2E+05	7.6E+07	1.4E+07	1.5E+07	2.1E+05	8.6E+06	2.5E+06	1.7E+07
27	2.0E+05	1.3E+08	1.3E+07	8.6E+05	2.2E+05	1.7E+08	1.8E+07	1.7E+07	4.3E+05	8.2E+06	6.0E+05	7.6E+06
28	2.3E+05	7.8E+07	1.6E+07	1.9E+06	3.3E+05	1.5E+08	1.6E+07	7.0E+06	5.8E+05	3.0E+07	9.3E+05	1.2E+06
29	2.9E+06	1.2E+07	1.5E+07	1.1E+06	1.8E+07	5.4E+07	6.2E+05	2.2E+06	1.5E+06	4.2E+06		9.4E+05
30	1.9E+06	5.7E+07	4.3E+07	2.6E+06	1.0E+08	9.0E+06	1.0E+07	1.2E+06	7.5E+05	1.8E+06		5.2E+06
31		1.2E+08		3.7E+06	1.2E+08		1.5E+07		9.3E+05	1.4E+06		1.1E+06

NOTE: The electron detector responds significantly to protons above 32 MeV; therefore, electron data are contaminated when a proton event is in progress. These days are indicated with '-999' in the table and are not plotted. '-' indicates data not available.

NOTE: GOES9 data began April, 1996 and ended on 26 July, 1998. GOES8 is primary satellite as of 27 July, 1998.

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Prompt Reports

Number 680 Part I

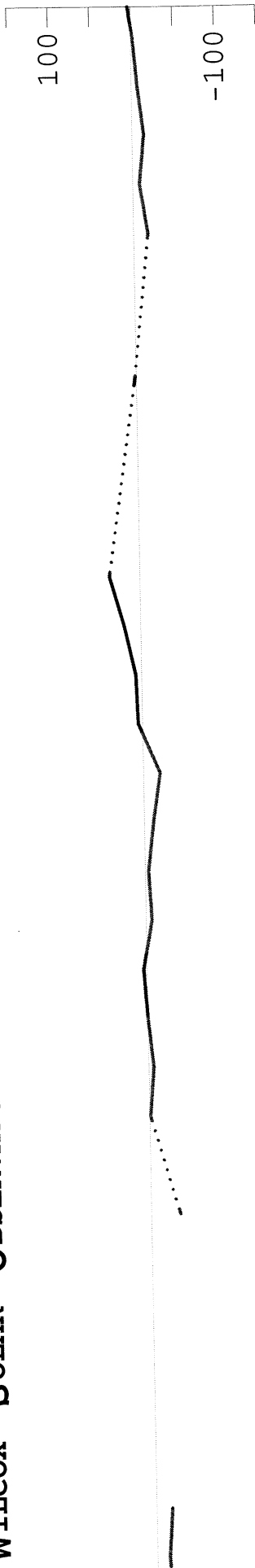
DATA FOR FEBRUARY 2001

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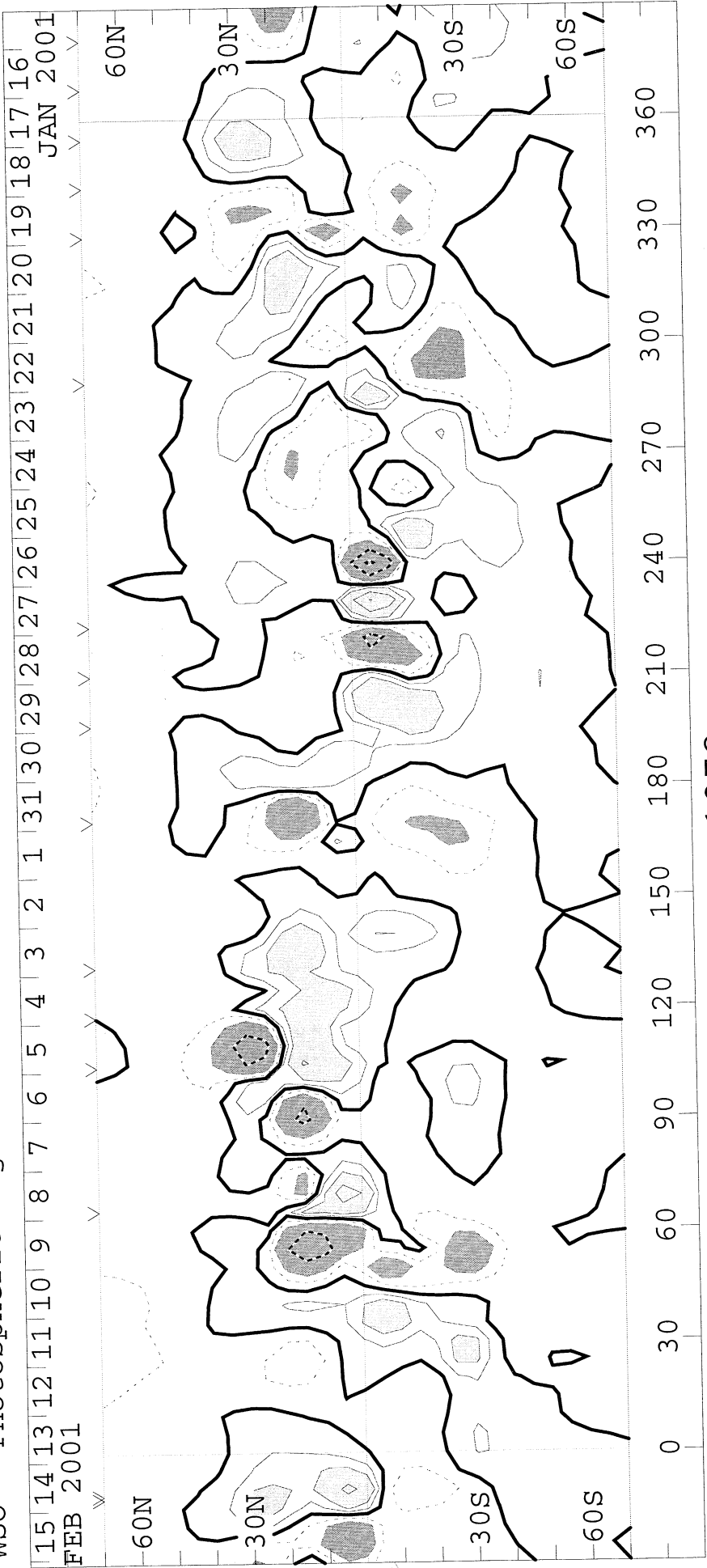
SOLAR MAGNETIC FIELD SYNOPTIC CHART
CARRINGTON ROTATION NUMBER 1972
(17 January to 13 February 2001)

WILCOX SOLAR OBSERVATORY

Mean Field



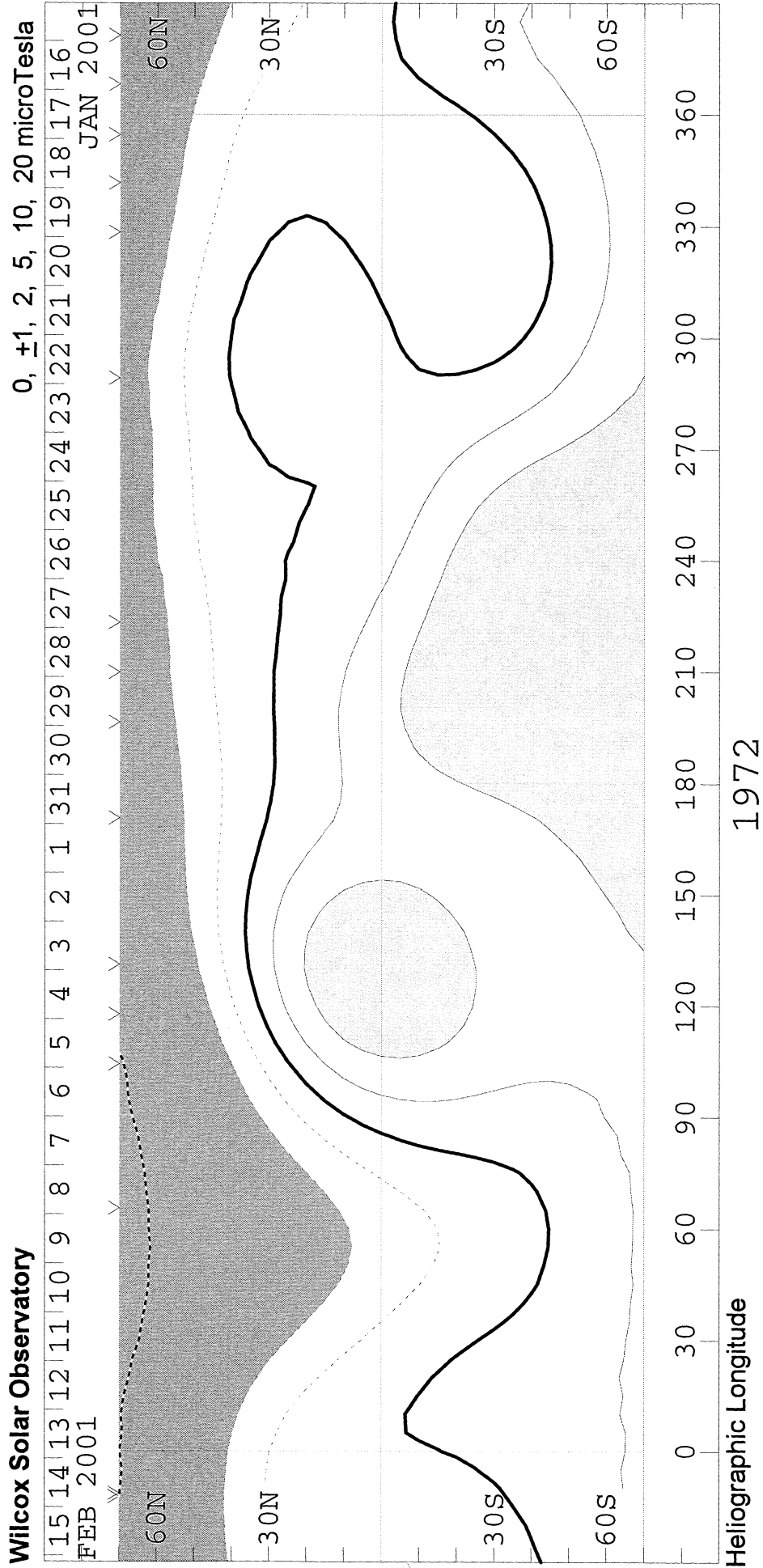
WSO - Photospheric Magnetic Field 0, ± 100 , 200, 500, 1000, 2000 MicroTesla



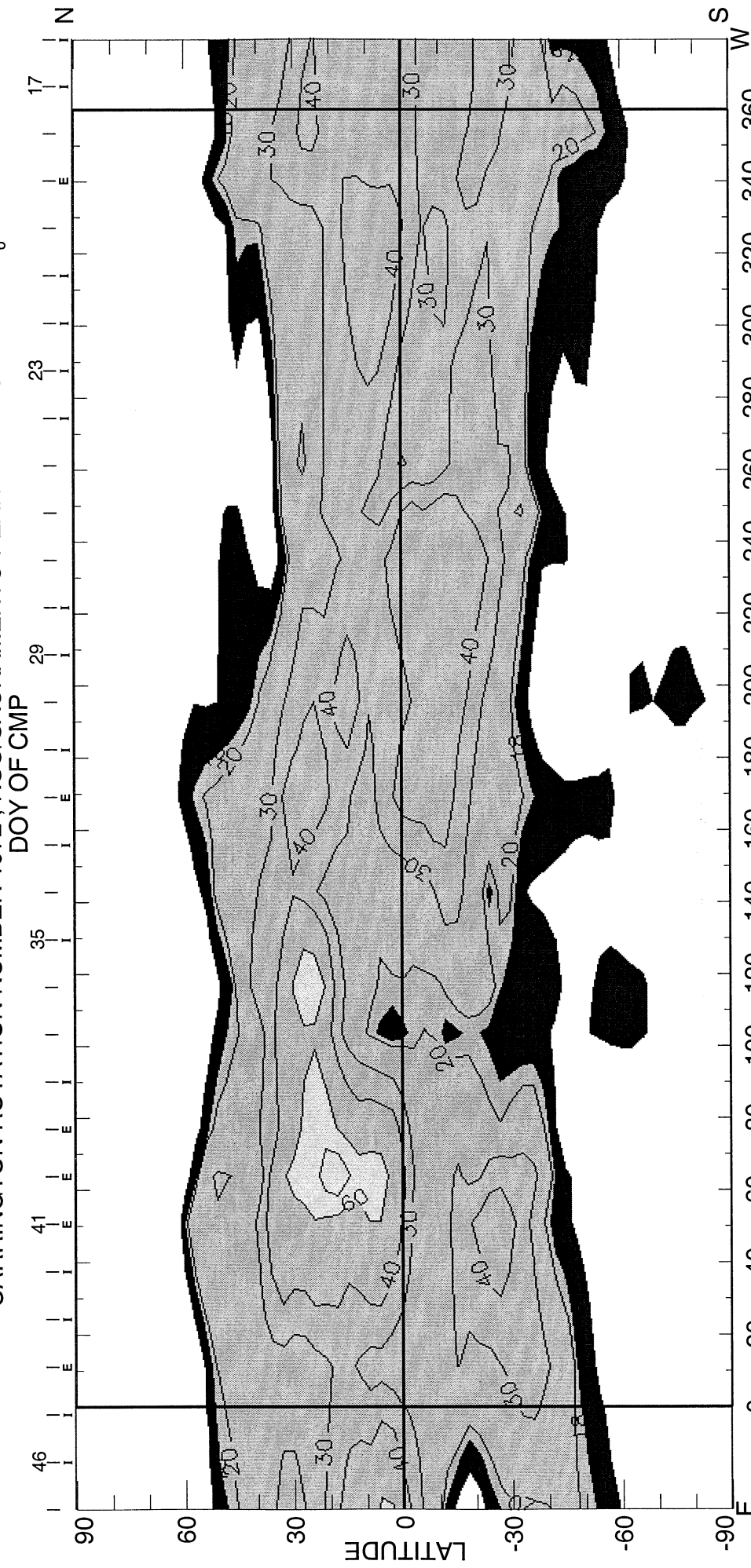
1972

Heliographic Longitude

SOLAR MAGNETIC FIELD SYNOPTIC CHART
SOURCE SURFACE FIELD
CARRINGTON ROTATION NUMBER 1972
 (17 January to 13 February 2001)

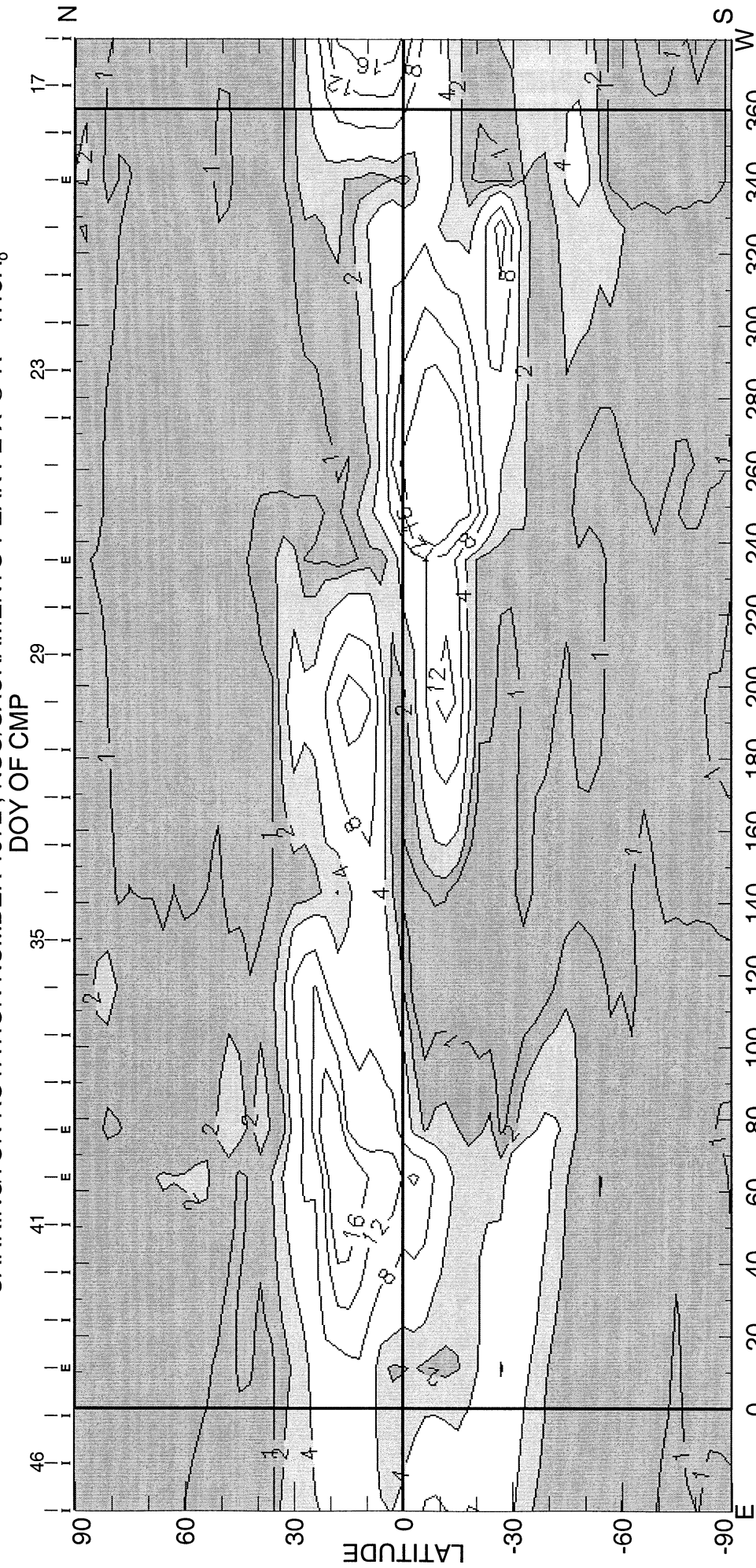


CARRINGTON ROTATION NUMBER 1972 ; NSO/SACRAMENTO PEAK FE XIV @ R = 1.15R_o



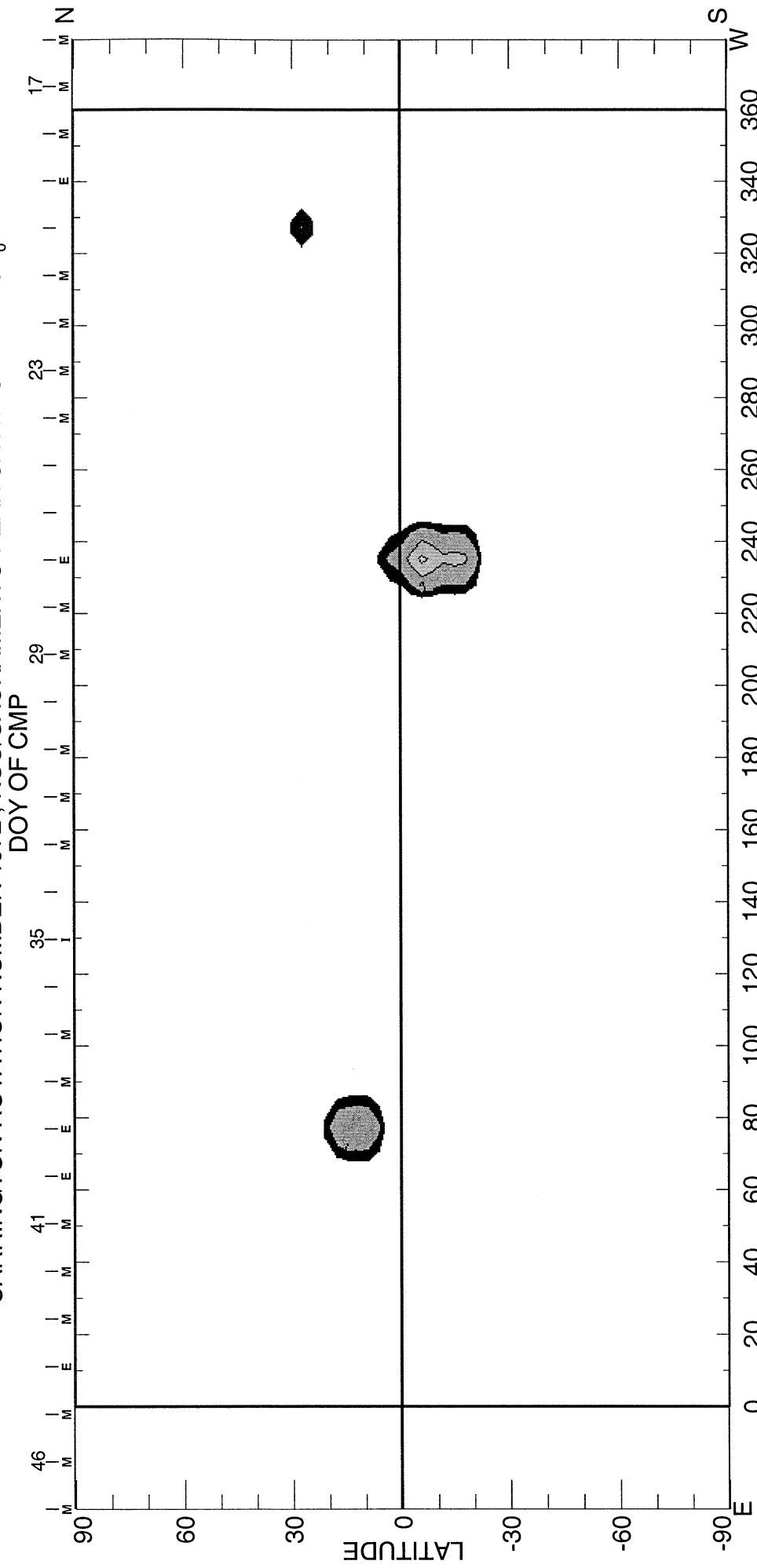
(17-Apr-01) 2001 W+E LIMB CONTOURS: 14, 18, 20, 30, 40, 60, 80, 100, 120, 140, 160 MILLIONTHS OF I_o
CORONAL HOLES ARE SHOWN AS WHITE BORDERED BY BLACK
HELIOGRAPHIC LONGITUDE
$\langle I \rangle = 19.91 \mu$

CARRINGTON ROTATION NUMBER 1972; NSO/SACRAMENTO PEAK FE X @ R = 1.15R_o



(30-Mar-01)
2001 W+E LIMB CONTOURS: 1, 2, 4, 8, 12, 16, 32, 48 MILLIONTHS OF I_o
HELIOGRAPHIC LONGITUDE
<I> = 2.77μ

CARRINGTON ROTATION NUMBER 1972 ; NSO/SACRAMENTO PEAK CA XV @ R = 1.15R₀

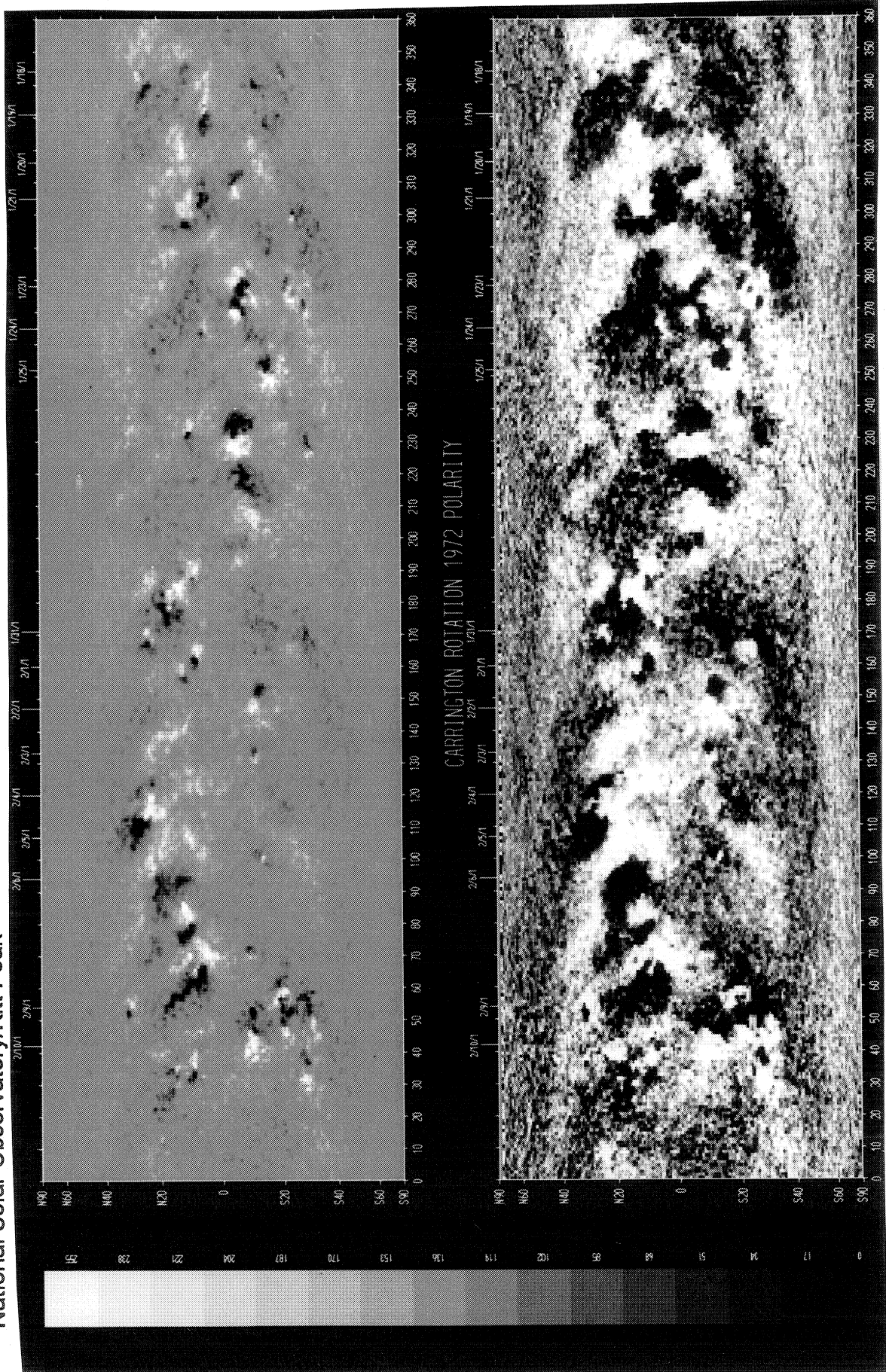


HELIOGRAPHIC LONGITUDE
2001 W+E LIMB CONTOURS: YELMIN, 1, 2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20 MILLIONTHS OF I₀
(30-Mar-01)

SOLAR MAGNETIC FIELD SYNOPSIS CHART
CARRINGTON ROTATION NUMBER 1972
(17 January to 13 February 2001)

National Solar Observatory/Kitt Peak

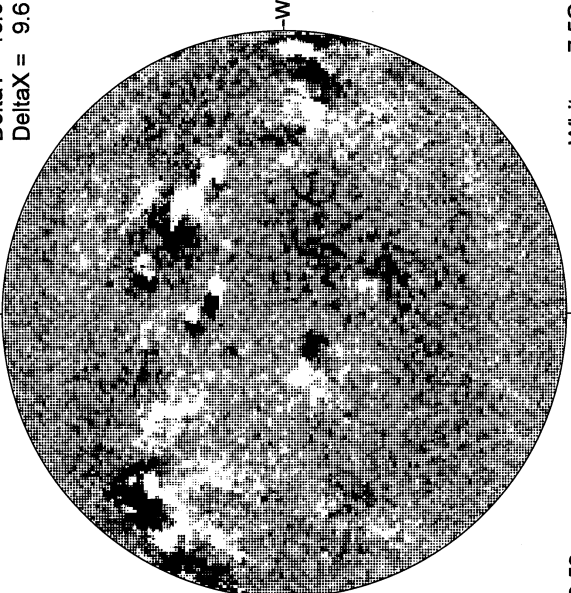
Dates of Observation



Heliographic Longitude

FEBRUARY 1, 2001 (P= -12.21, Bo = -6.03, Lo = 169.08)

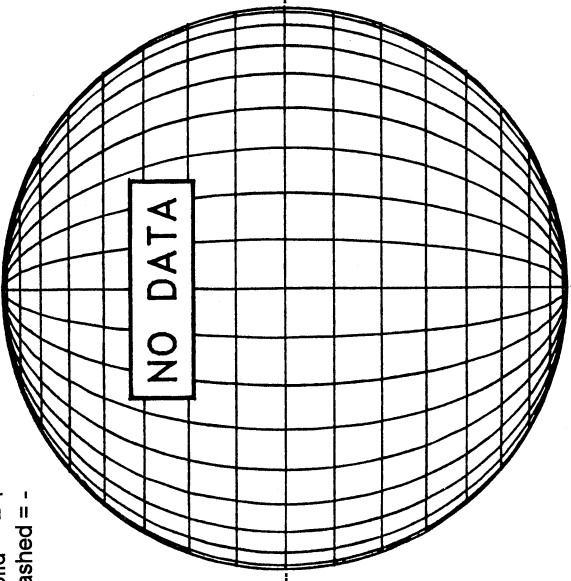
MT. WILSON MAGNETOGRAM
DeltaY = 13.0
DeltaX = 9.6



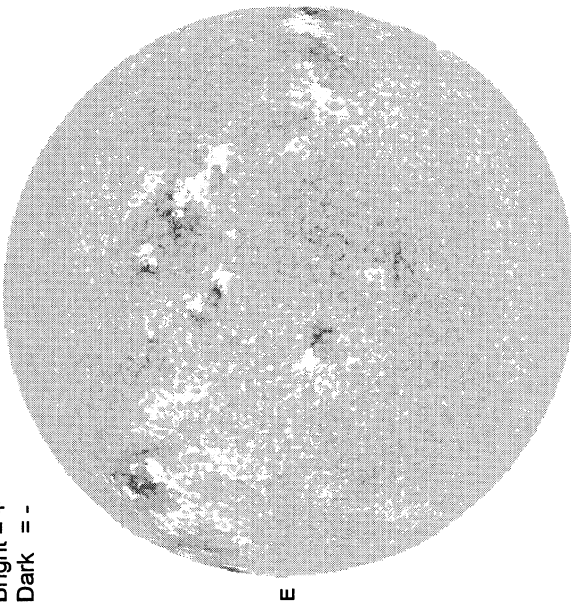
White = +7.5G
Black = -7.5G

22.53 -
23.51 UT

STANFORD MAGNETOGRAM
Solid = +
Dashed = -

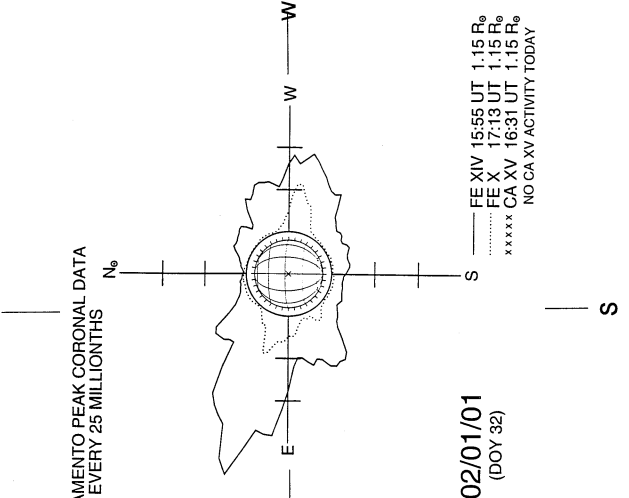


KITT PEAK MAGNETOGRAM
868.8 nm
Bright = +
Dark = -



1653 UT

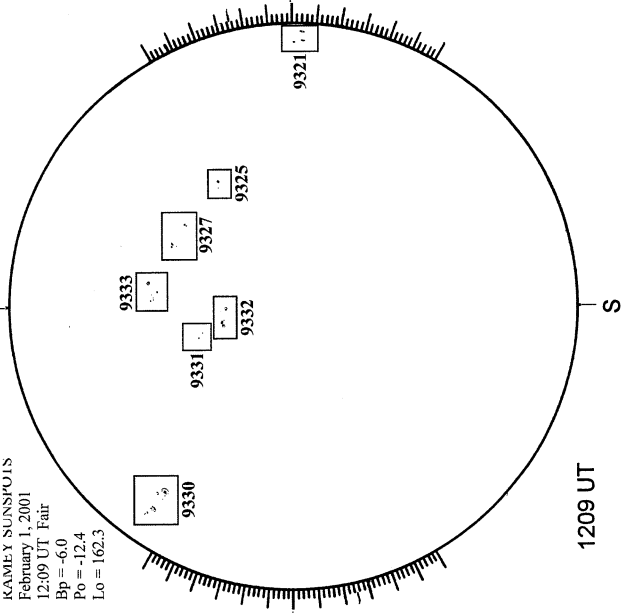
SACRAMENTO PEAK CORONA (1.15 Radii)----



02/01/01
(DOY 32)

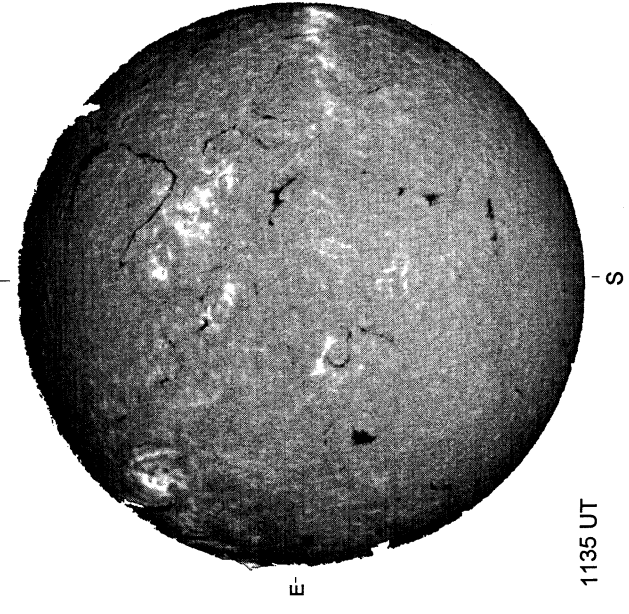
RAMEY SUNSPOTS

RAMEY SUNSPOTS
February 1, 2001
12:09 UT Fair
Bp = 6.0
Po = -12.4
Lo = 162.3



1209 UT

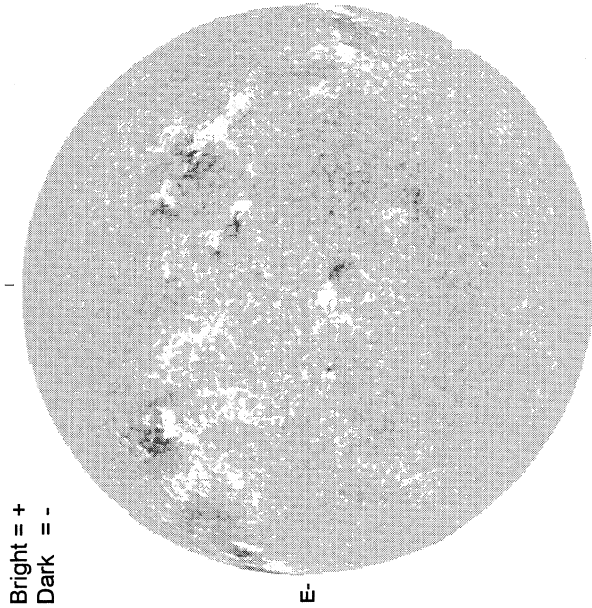
MEUDON H-ALPHA



1135 UT

FEBRUARY 2, 2001 (P = -12.61, Bo = -6.10, Lo = 155.91)

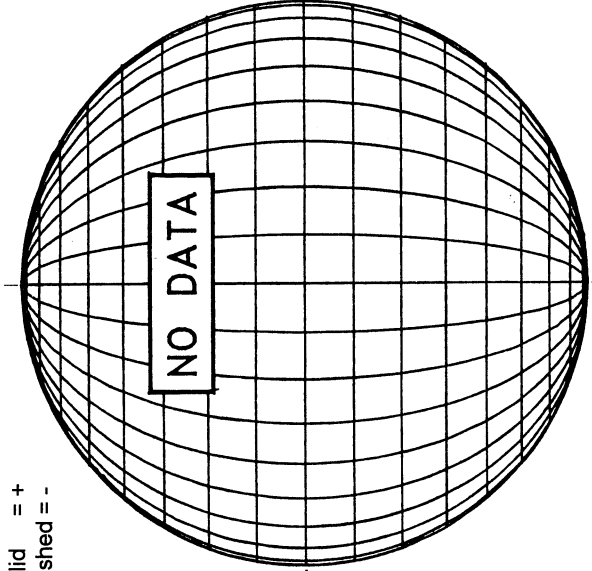
KITT PEAK MAGNETOGRAM
868.8 nm



Bright = +
Dark = -

1655 UT

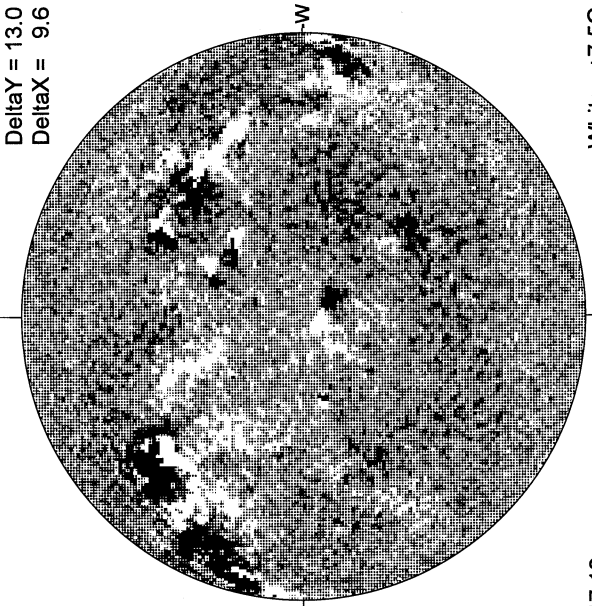
STANFORD MAGNETOGRAM



Solid = +
Dashed = -

17.18 -
18.16 UT

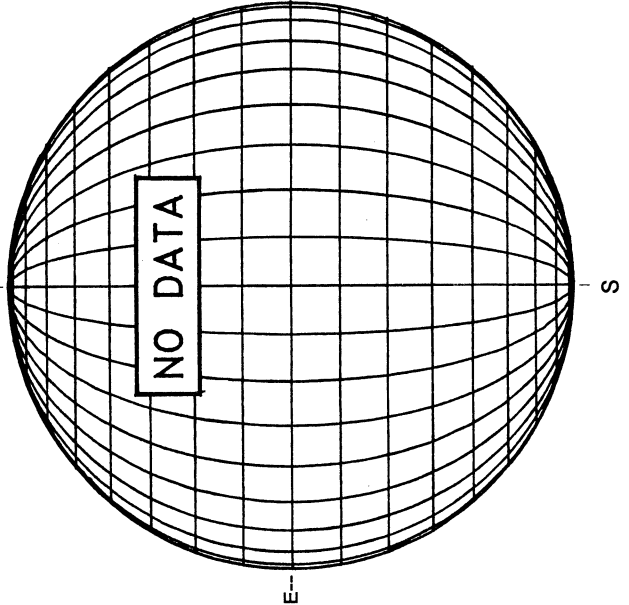
MT. WILSON MAGNETOGRAM



DeltaY = 13.0
DeltaX = 9.6

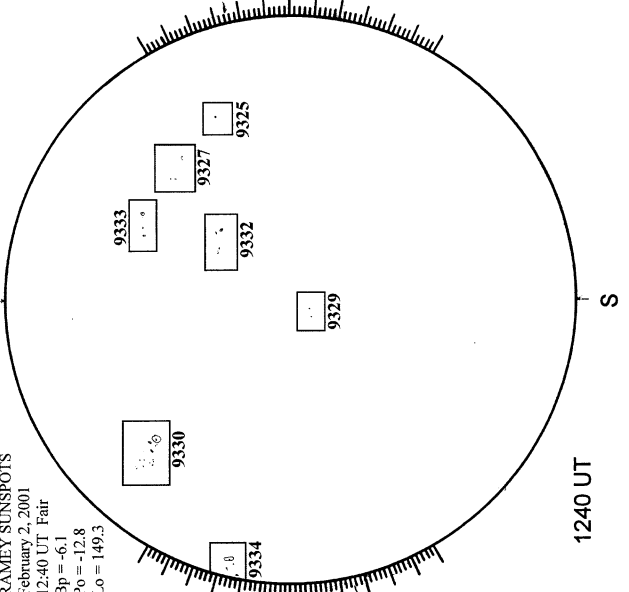
White = +7.5G
Black = -7.5G

MEUDON H-ALPHA



RAMEY SUNSPOTS

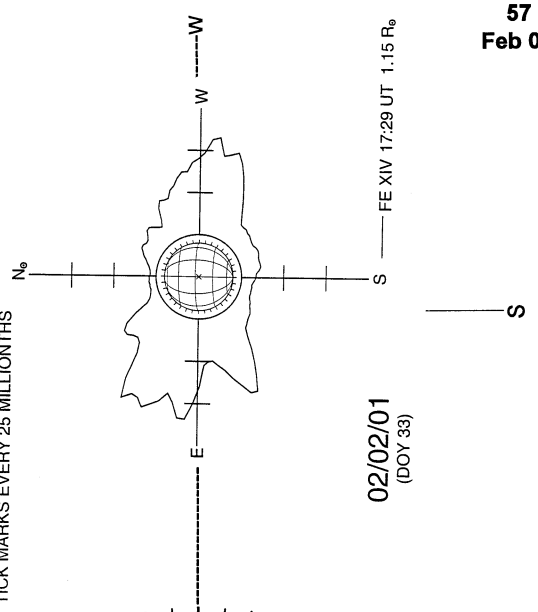
RAMEY SUNSPOTS
February 2, 2001
12:40 UT Fair
Bp = -6.1
Po = -12.8
Lo = 149.3



1240 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

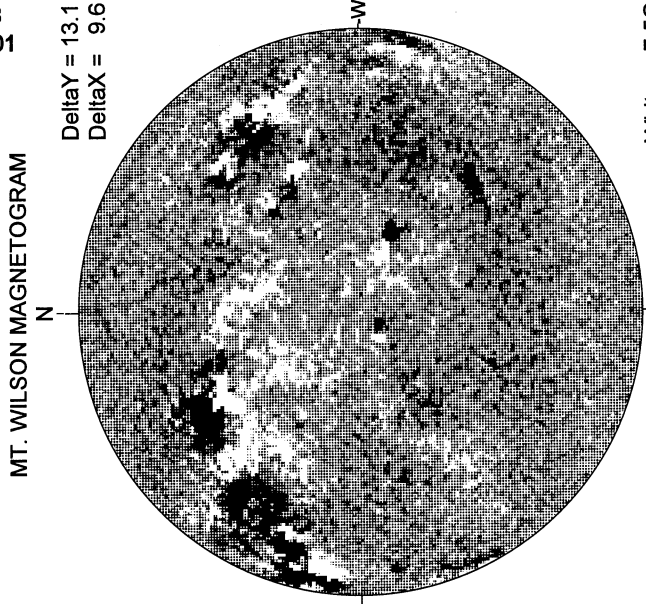
NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 25 MILLIONTHS



02/02/01
(DOY 33)

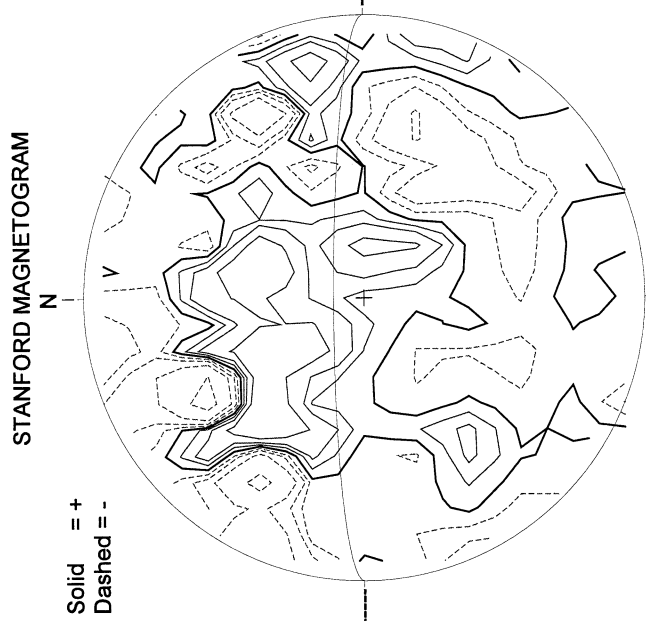
FE XIV 17:29 UT 1.15 R_o

FEBRUARY 3, 2001 (P= -13.02, Bo = -6.17, Lo = 142.75)

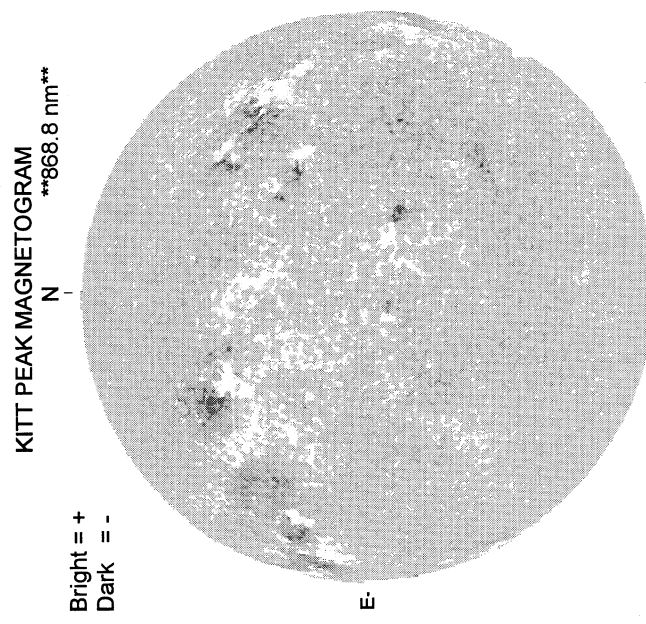


White = +7.5G
Black = -7.5G

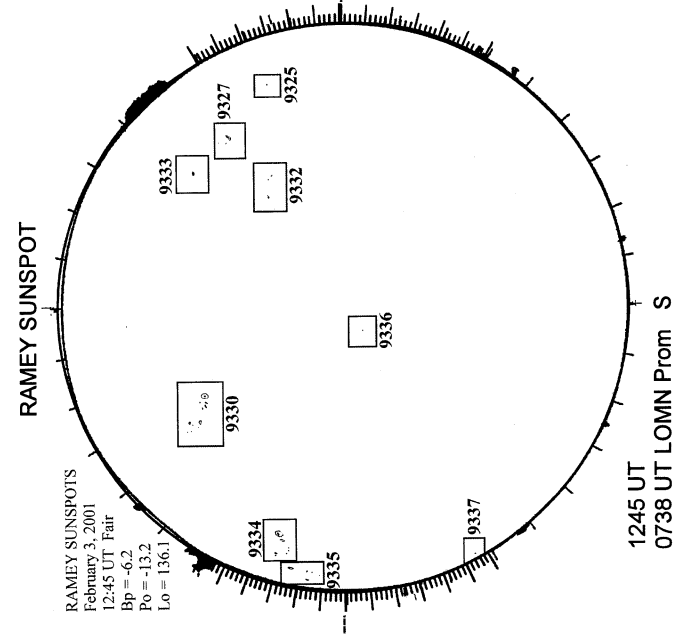
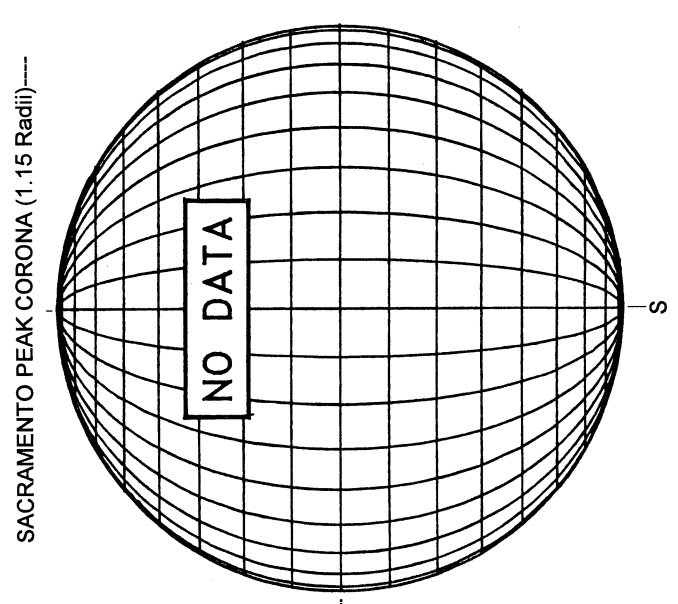
16.97 -
17.94 UT



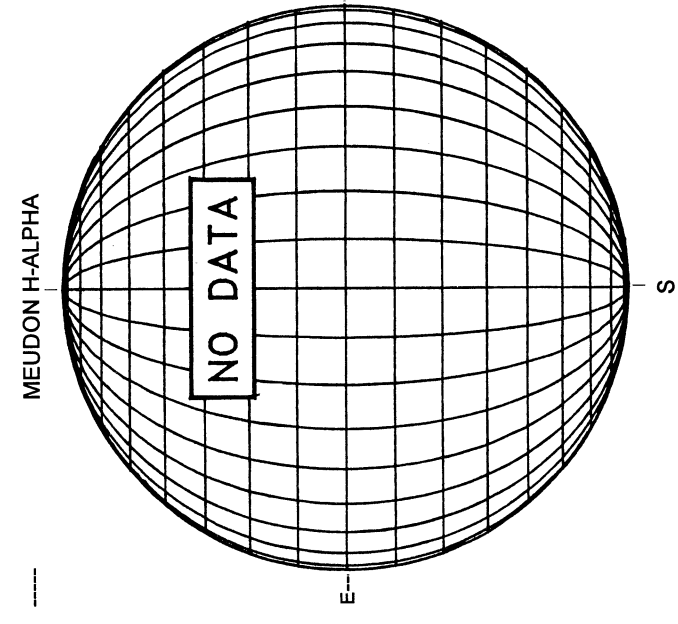
2105 UT



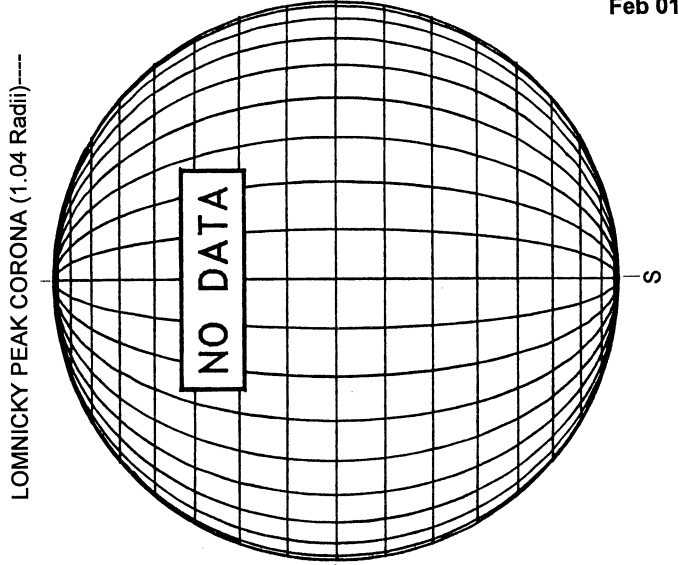
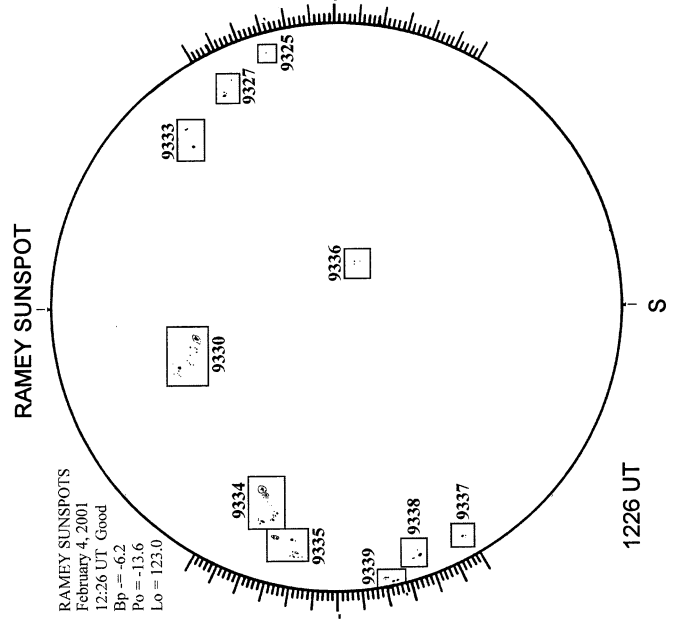
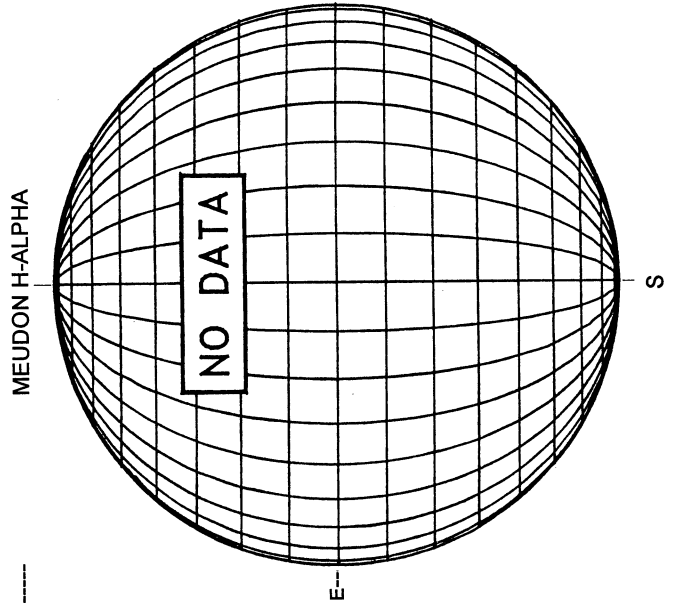
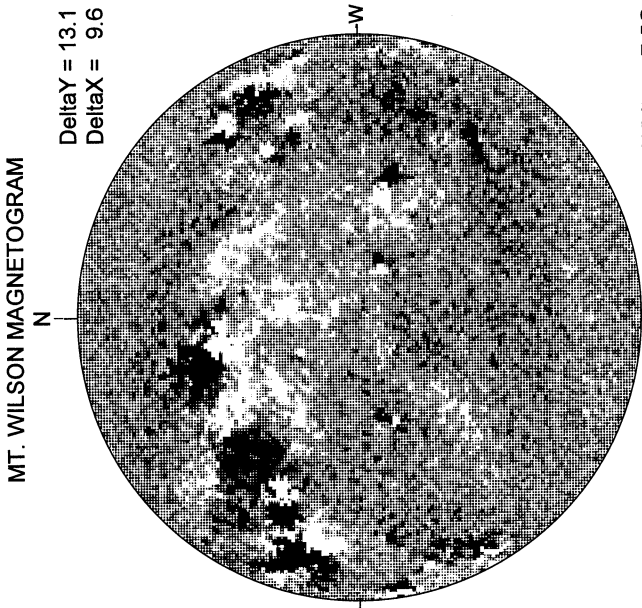
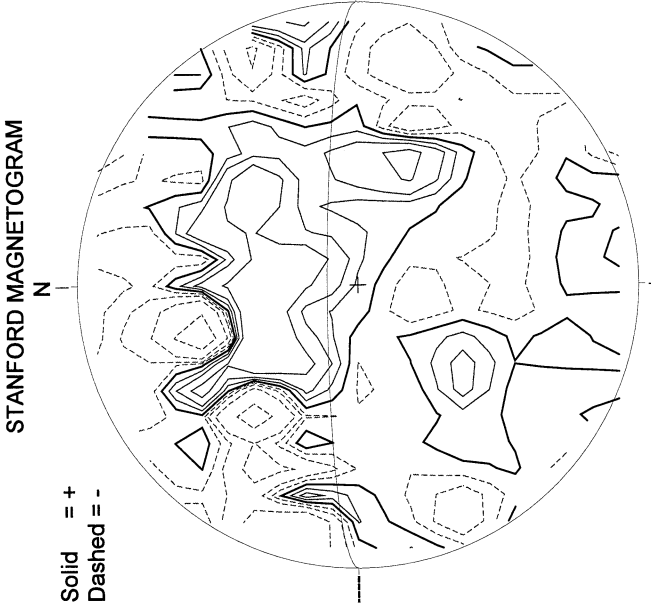
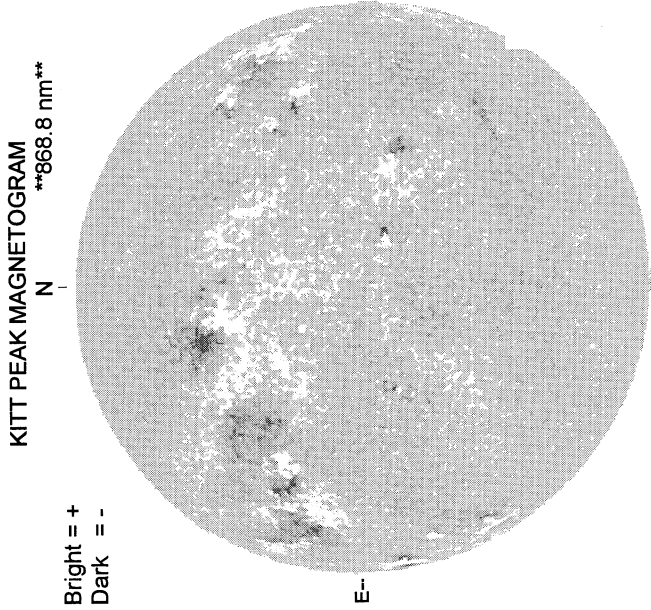
1702 UT



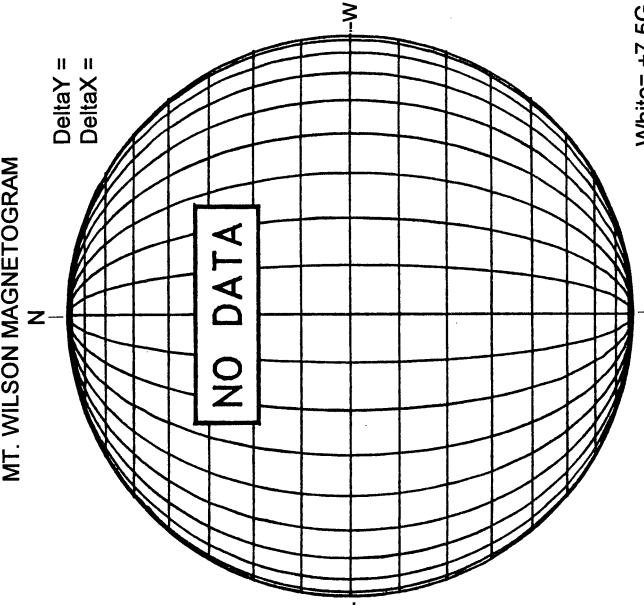
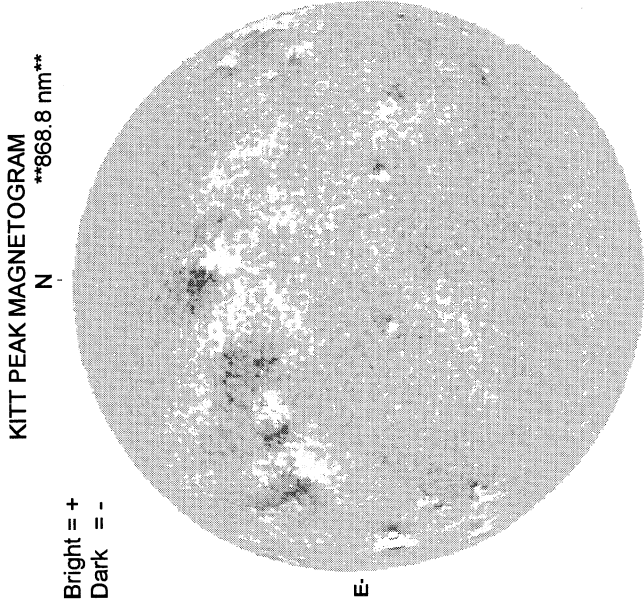
1245 UT
0738 UT LOMN Prom S



FEBRUARY 4, 2001 (P= -13.41, Bo = -6.24, Lo = 129.58)



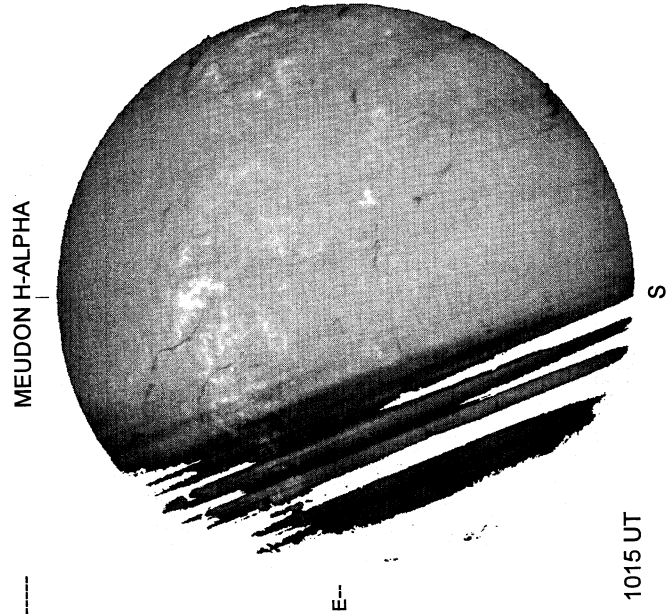
FEBRUARY 5, 2001 (P= -13.80, Bo = -6.30, Lo = 116.42)



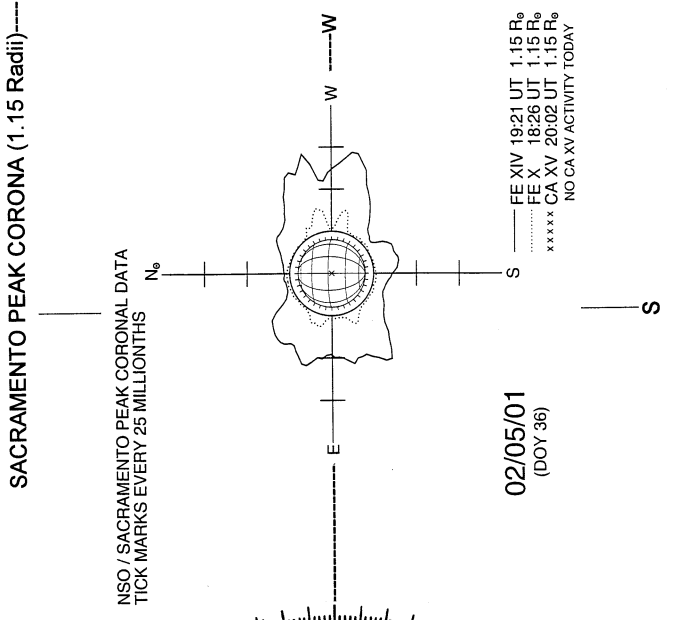
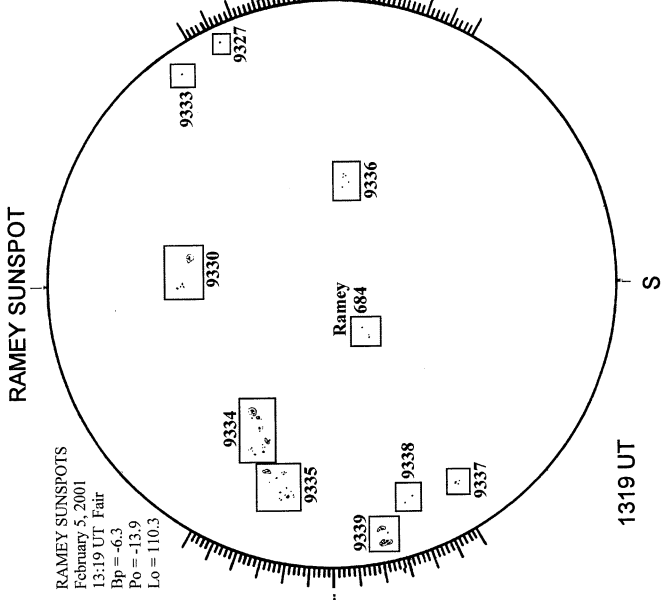
White = +7.5G
Black = -7.5G

1724 UT

2206 UT



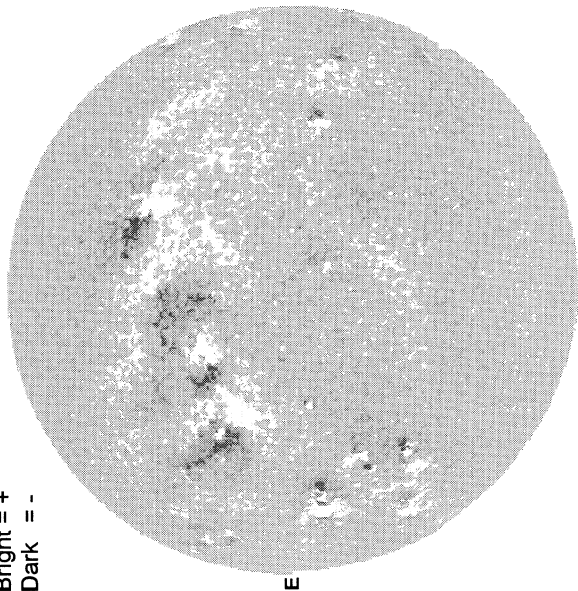
1015 UT



FEBRUARY 6, 2001 (P= -14.19, Bo = -6.37, Lo = 103.25)

KITT PEAK MAGNETOGRAM
868.8 nm

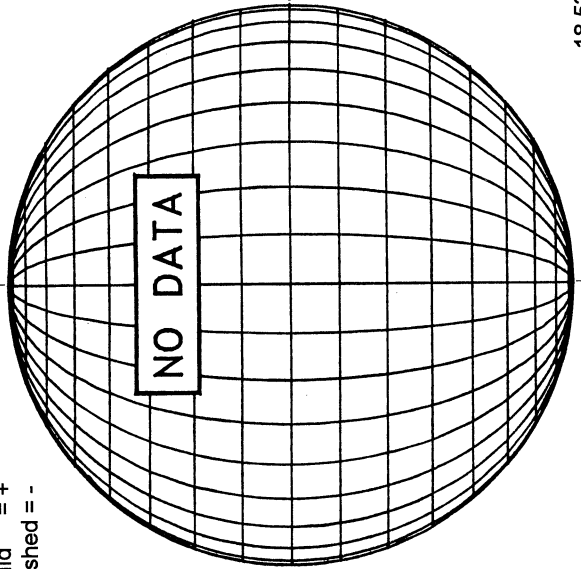
Bright = +
Dark = -



1749 UT

STANFORD MAGNETOGRAM

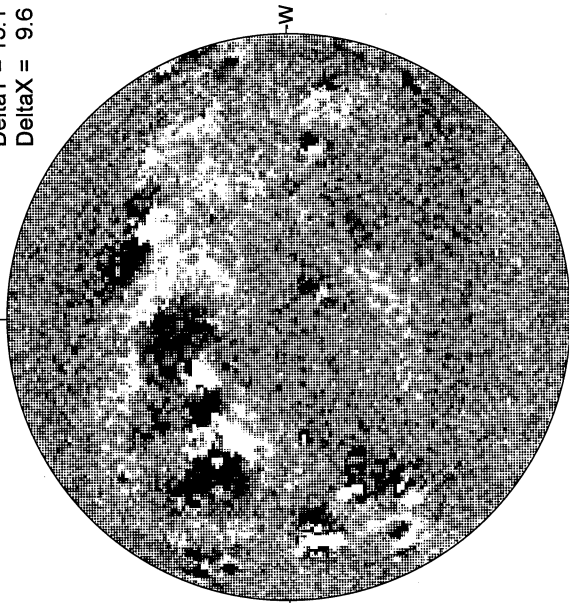
Solid = +
Dashed = -



18.53 -
19.51 UT

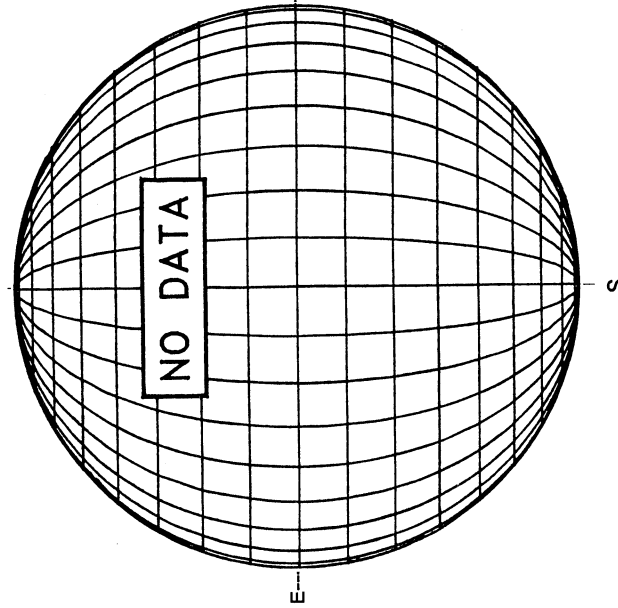
MT. WILSON MAGNETOGRAM

DeltaY = 13.1
DeltaX = 9.6



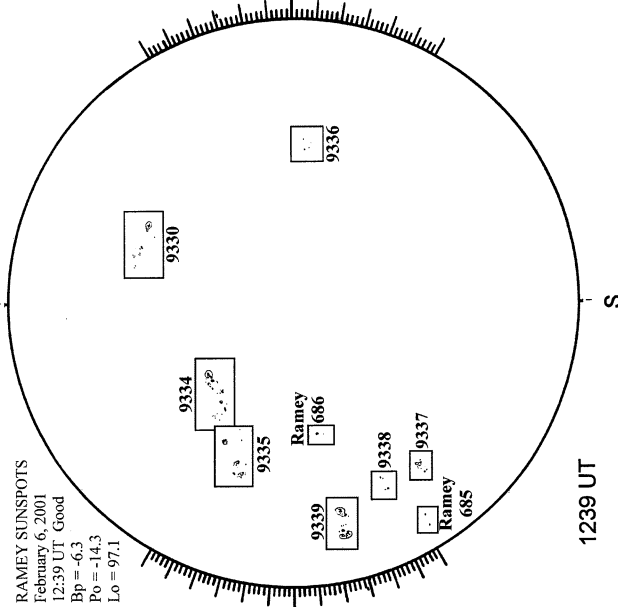
White = +7.5G
Black = -7.5G

MEUDON H-ALPHA



RAMEY SUNSPOT

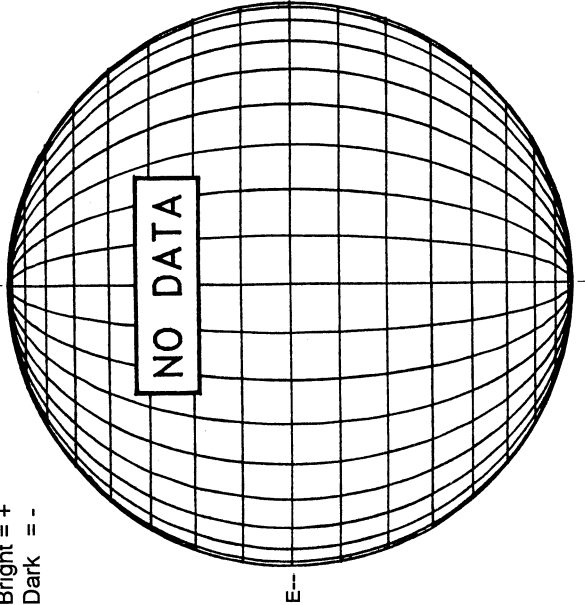
RAMEY SUNSPOTS
February 6, 2001
12:39 UT: Good
Bp = -6.3
Po = -14.3
Lo = 97.1



FEBRUARY 7, 2001 (P = -14.57, Bo = -6.43, Lo = 90.08)

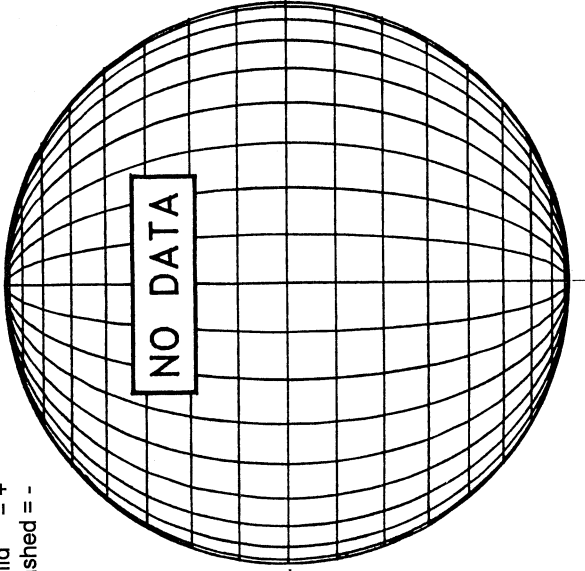
KITT PEAK MAGNETOGRAM
868.8 nm

Bright = +
Dark = -



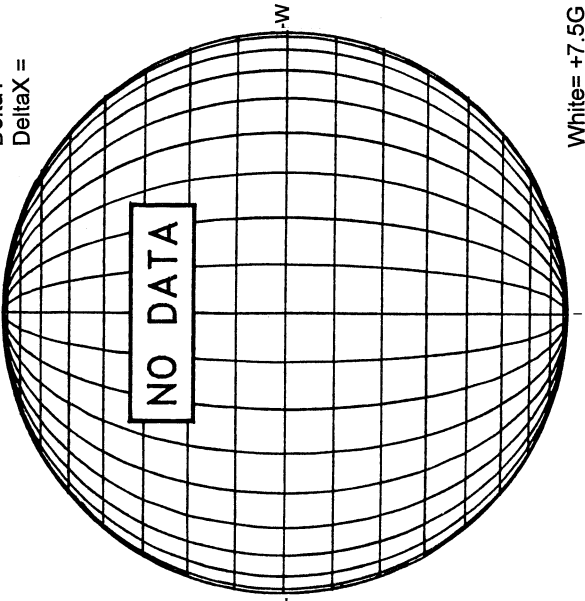
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



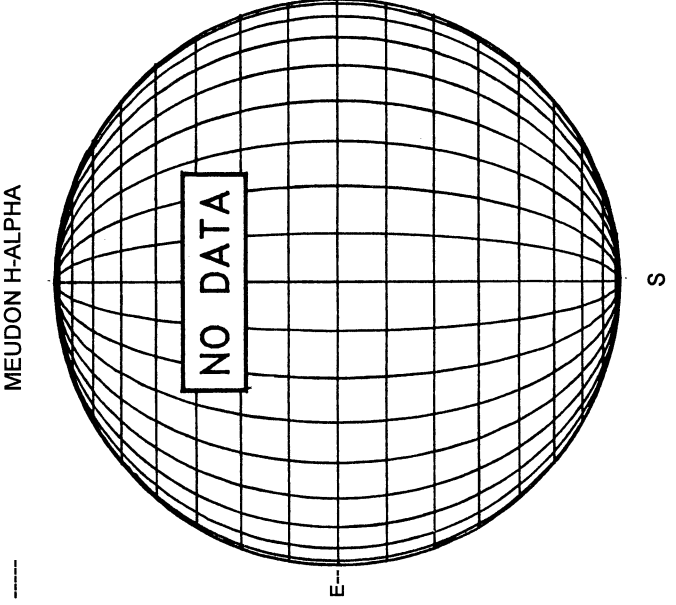
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =



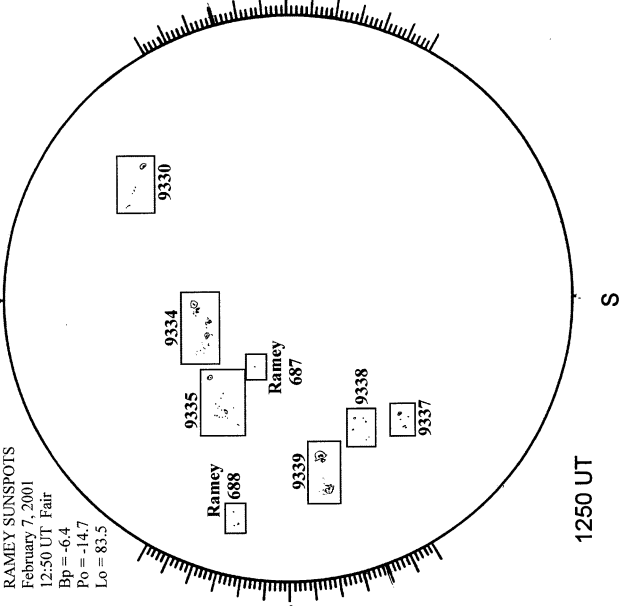
White = +7.5G
Black = -7.5G

MEUDON H-ALPHA

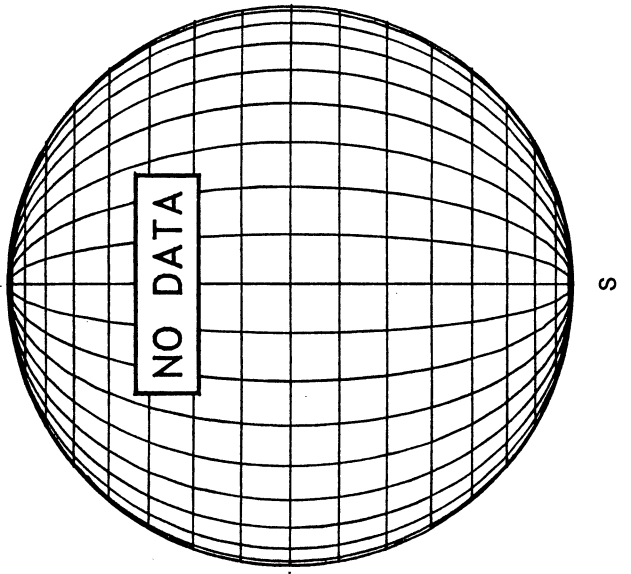


RAMEY SUNSPOTS

RAMEY SUNSPOTS
February 7, 2001
12:50 UT Fair
Bp = -6.4
Po = -14.7
Lo = 83.5

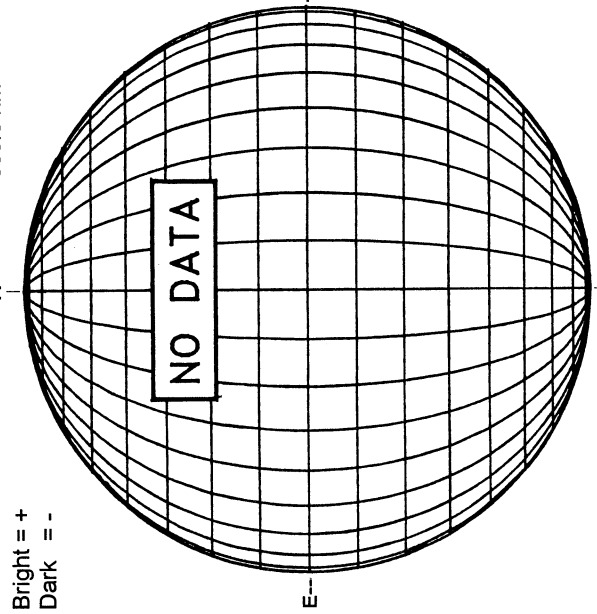


LOMNICKY PEAK CORONA (1.04 Radii)----

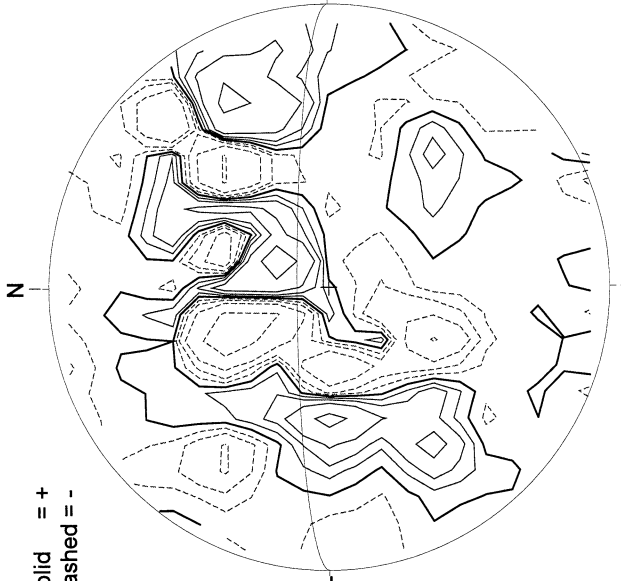


FEBRUARY 8, 2001 (P= -14.94, Bo = -6.49, Lo = 76.91)

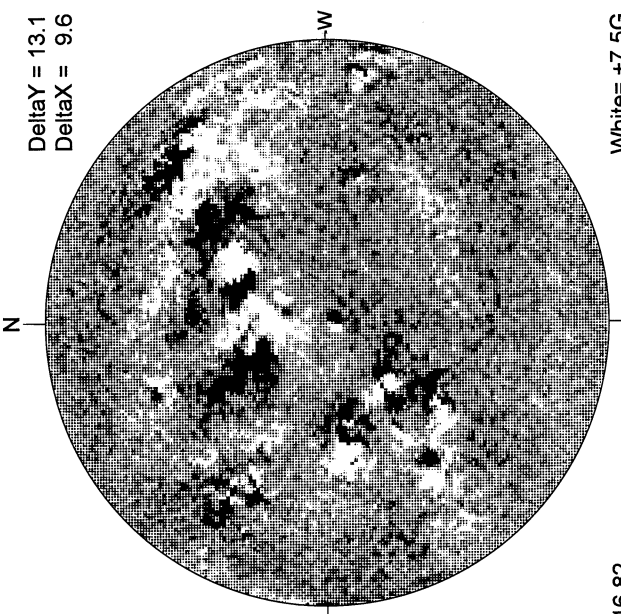
KITT PEAK MAGNETOGRAM
868.8 nm



STANFORD MAGNETOGRAM

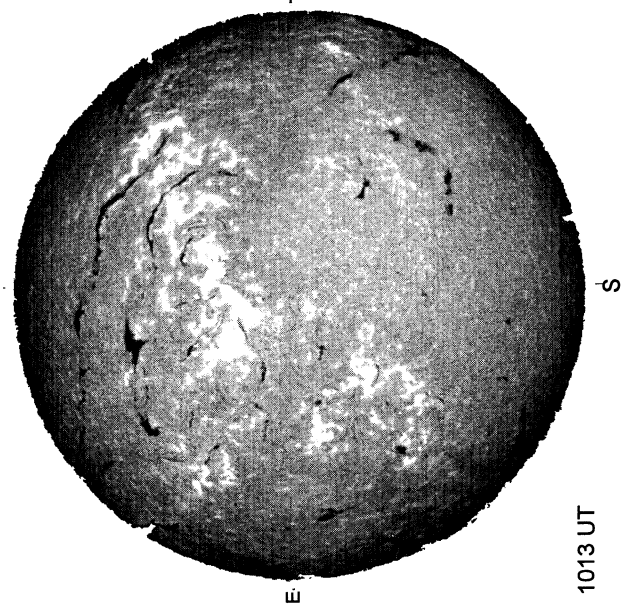


MT. WILSON MAGNETOGRAM



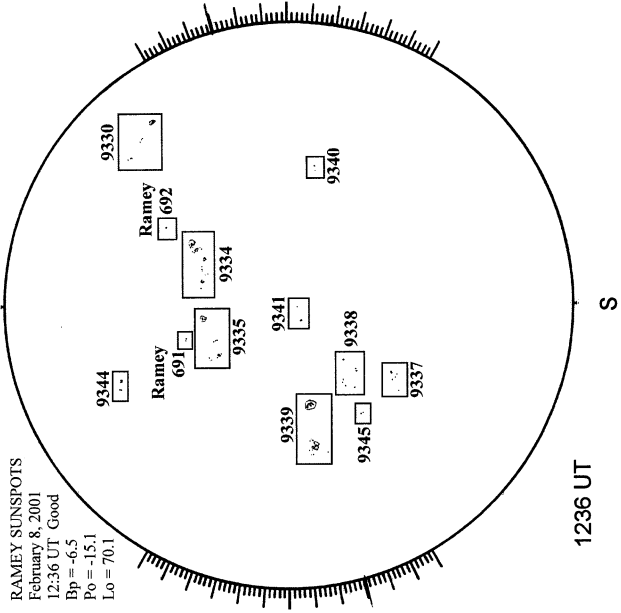
16.82 -
17.79 UT

MEUDON H-ALPHA



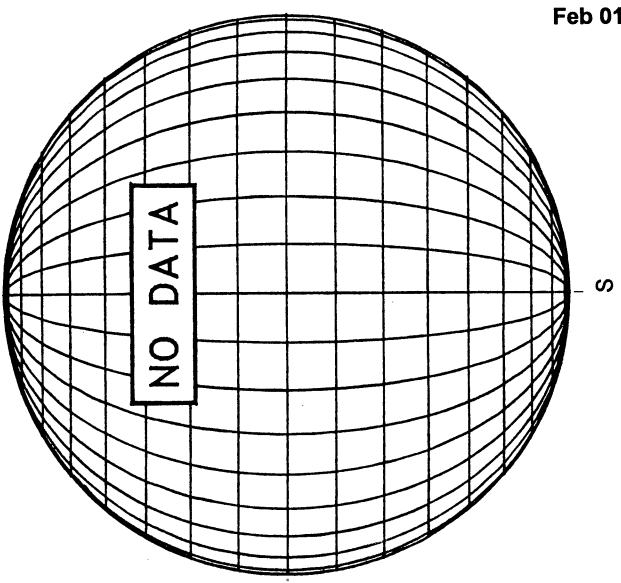
1013 UT

RAMEY SUNSPOT



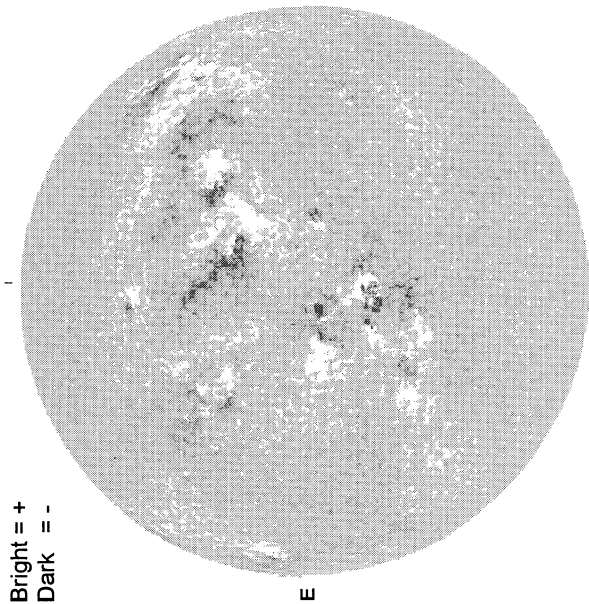
1236 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



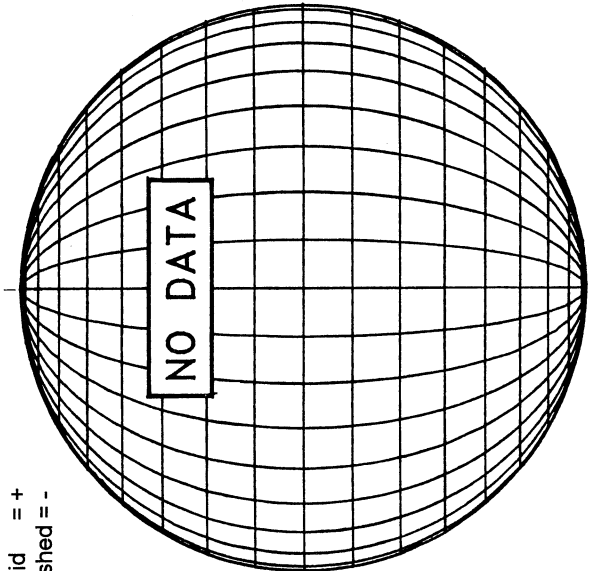
FEBRUARY 9, 2001 (P= -15.32, Bo = -6.54, Lo = 63.75)

KITT PEAK MAGNETOGRAM
**868.8 nm

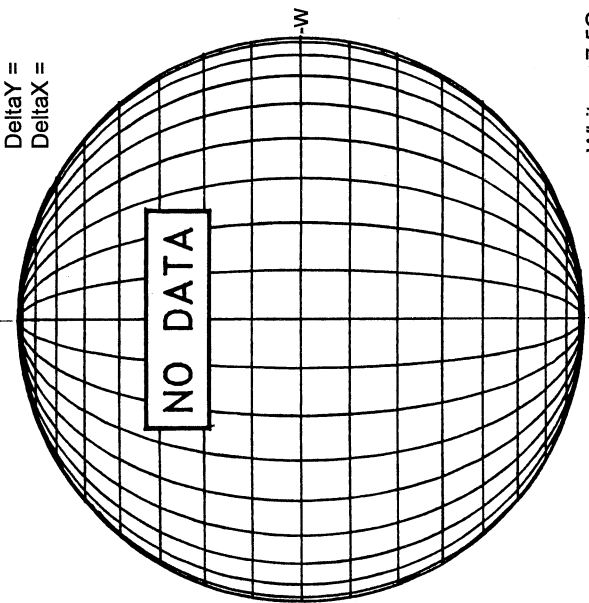


Solid = +
Dashed = -

STANFORD MAGNETOGRAM



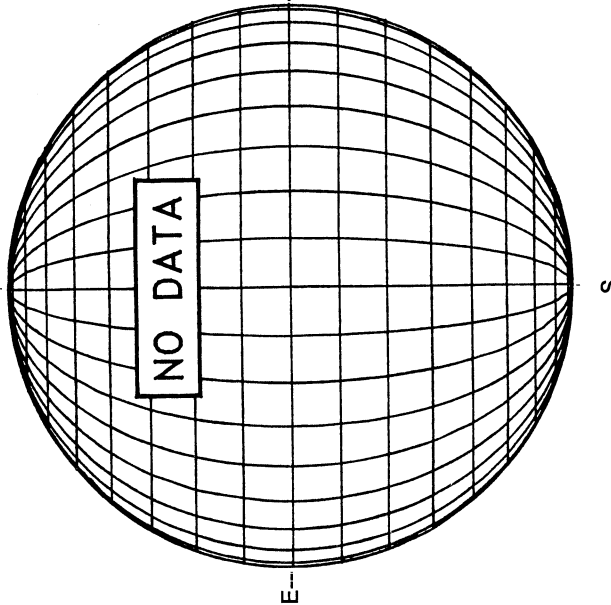
MT. WILSON MAGNETOGRAM



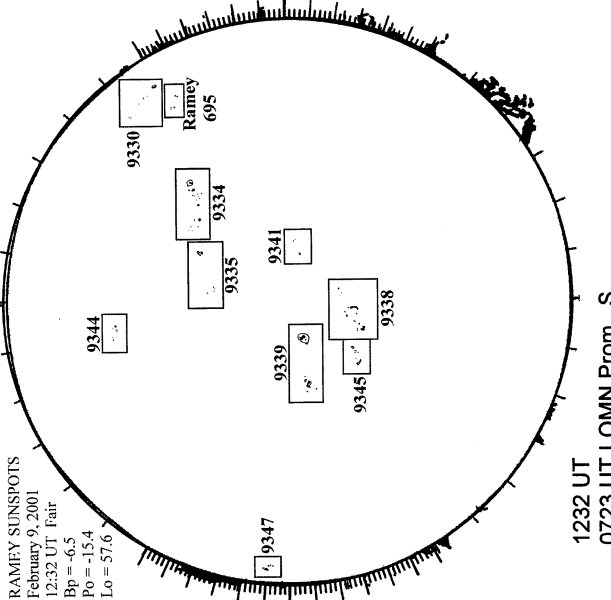
White = +7.5G
Black = -7.5G

1819 UT

MEUDON H-ALPHA

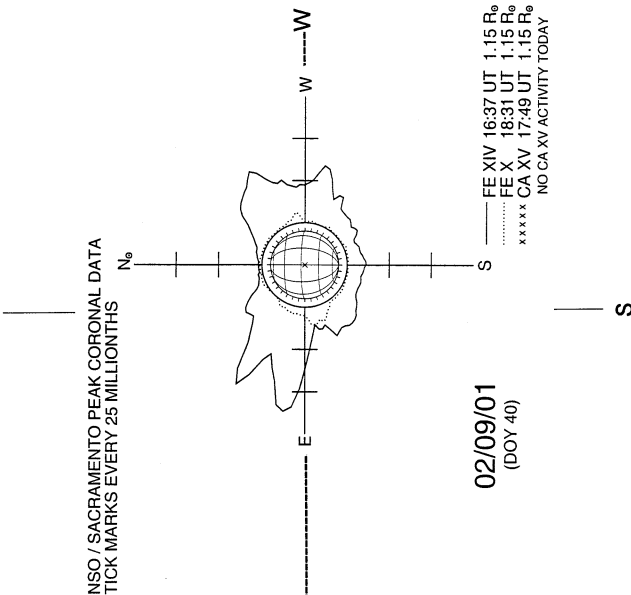


RAMEY SUNSPOT



RAMEY SUNSPOTS
February 9, 2001
12:32 UT Fair
Bp = -6.5
Po = -15.4
Lo = 57.6

SACRAMENTO PEAK CORONA (1.15 Radii)----



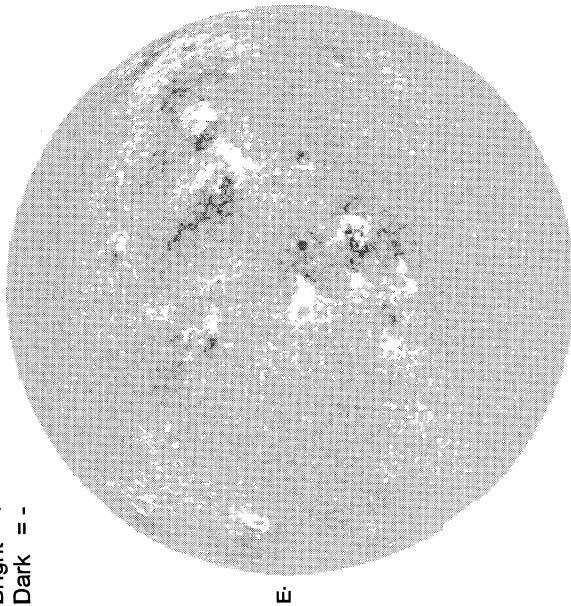
02/09/01
(DOY 40)

----- FE XIV 16:37 UT 1.15 R₀
..... FE X 18:31 UT 1.15 R₀
***** CA XV 17:49 UT 1.15 R₀
NO CA XV ACTIVITY TODAY

FEBRUARY 10, 2001 (P= -15.68, Bo = -6.60 Lo = 50.58)

KITT PEAK MAGNETOGRAM
868.8 nm

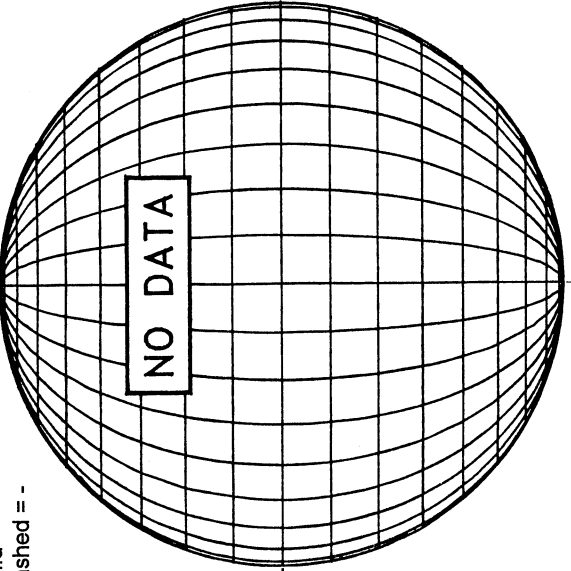
Bright = +
Dark = -



1616 UT

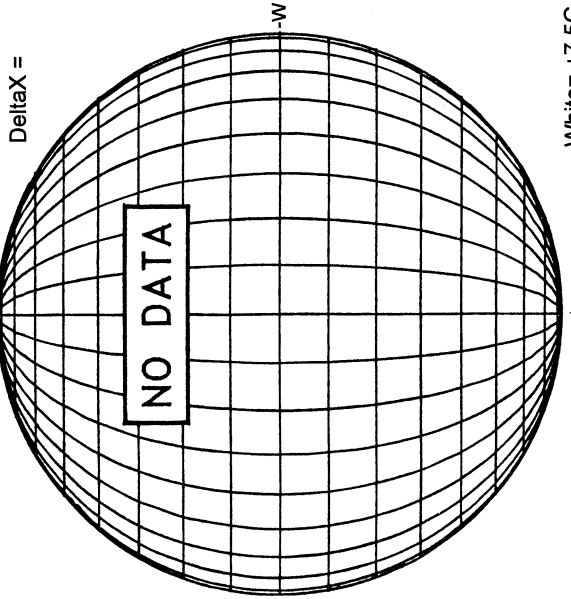
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



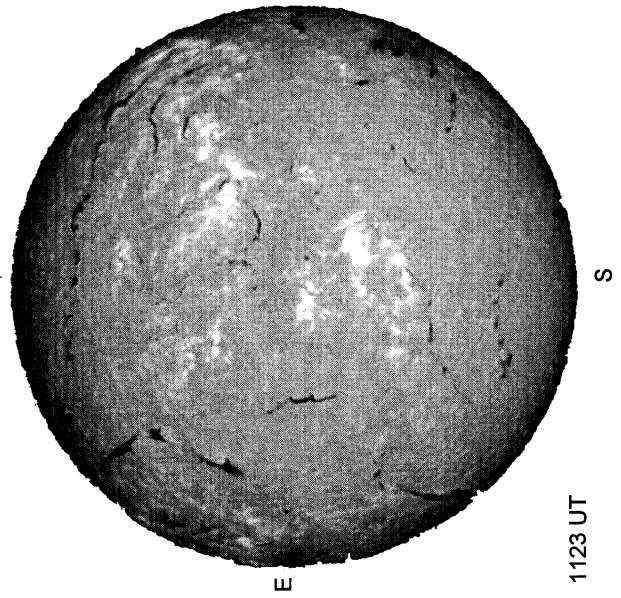
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =



White = +7.5G
Black = -7.5G

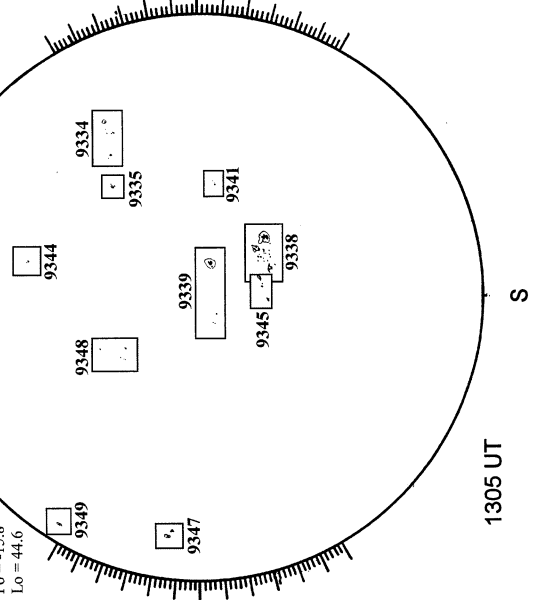
MEUDON H-ALPHA



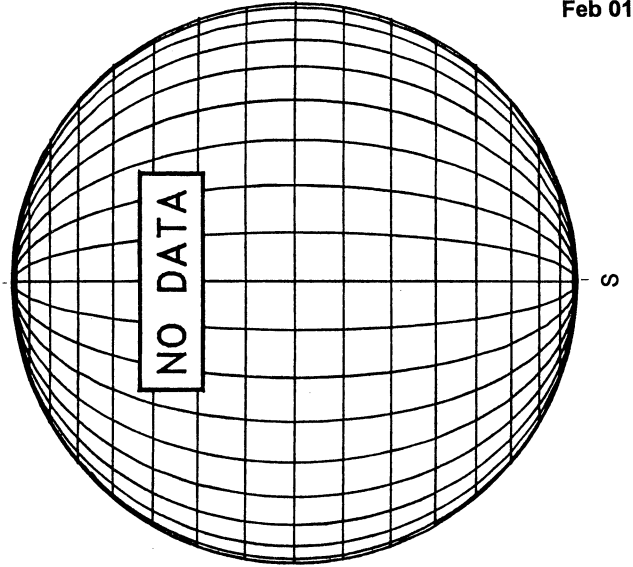
1123 UT

RAMEY SUNSPOTS

RAMEY SUNSPOTS
February 10, 2001
13:05 UT Fair
Bp = -6.6
Po = -15.8
Lo = 44.6



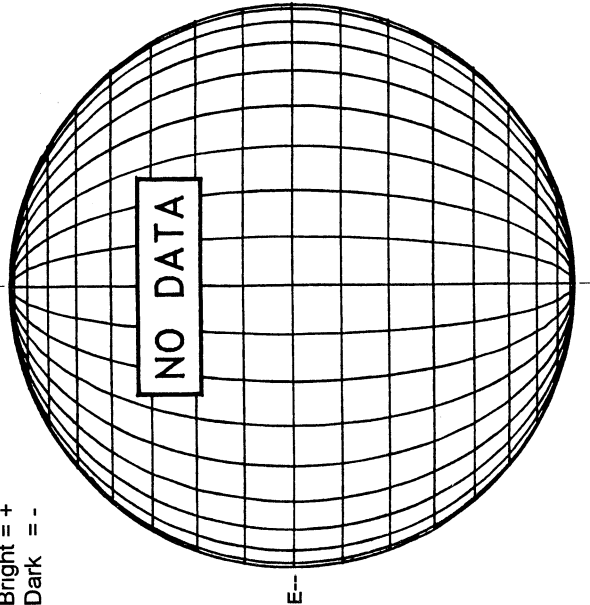
LOMNICKY PEAK CORONA (1.04 Radii)----



FEBRUARY 11, 2001 (P= -16.04, Bo = -6.65, Lo = 37.41)

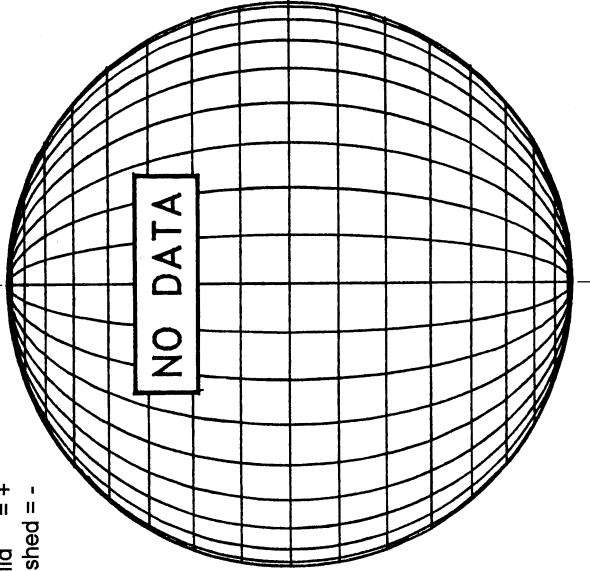
KITT PEAK MAGNETOGRAM
868.8 nm

Bright = +
Dark = -



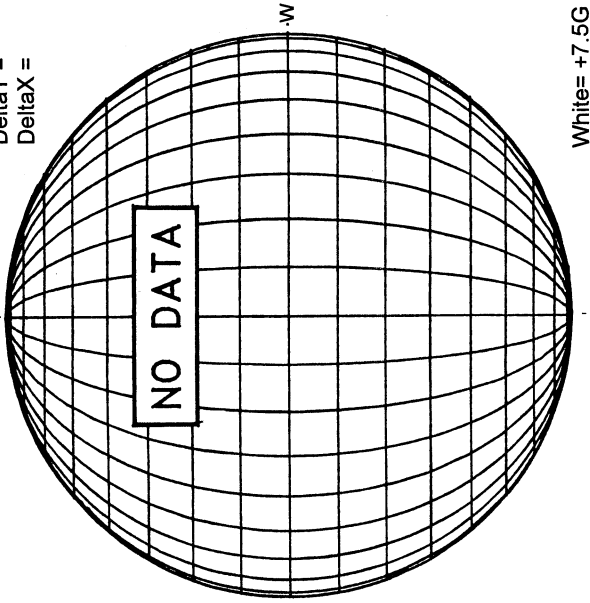
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



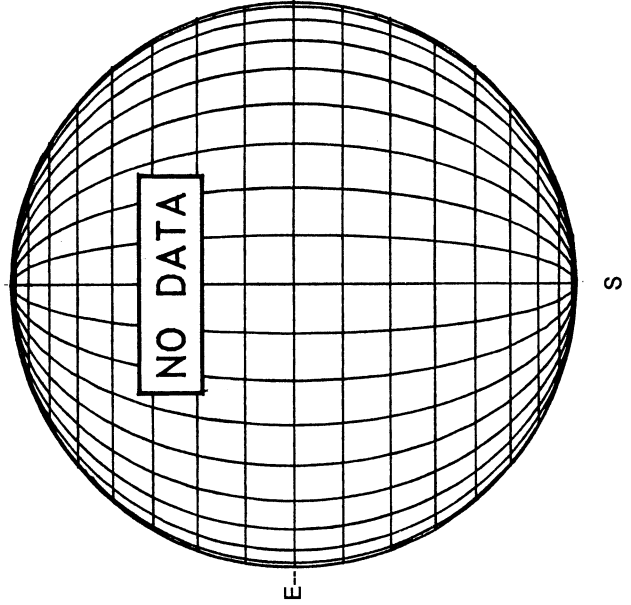
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =



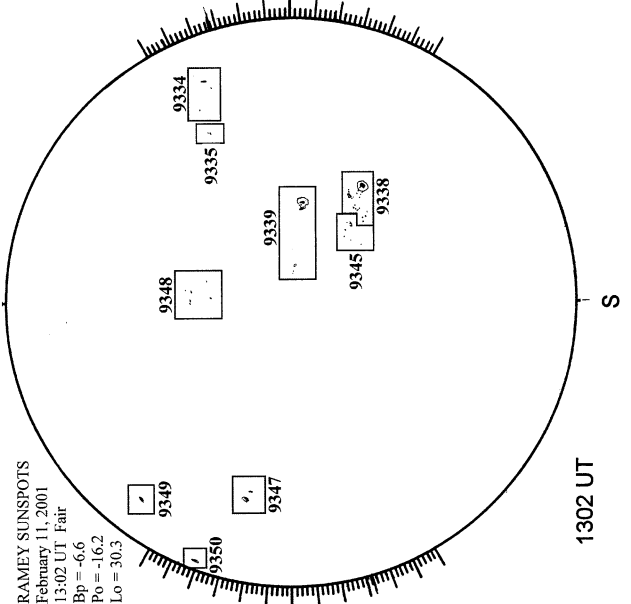
White = +7.5G
Black = -7.5G

MEUDON H-ALPHA

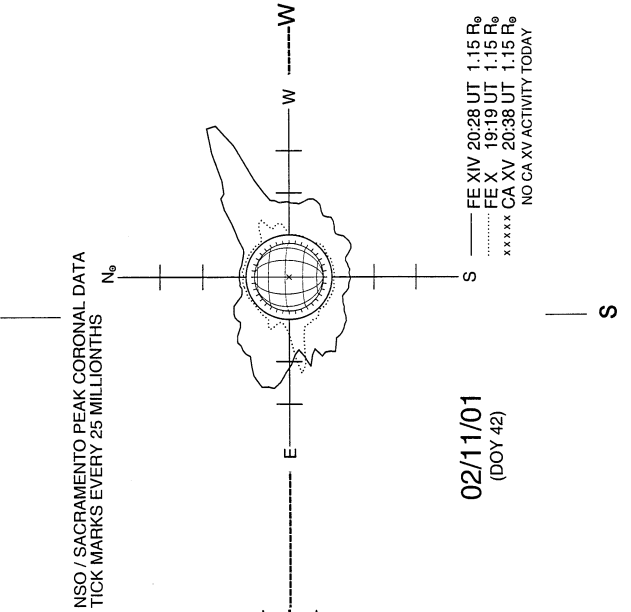


RAMEY SUNSPOTS

RAMEY SUNSPOTS
February 11, 2001
13:02 UT Fair
Bp = -6.6
Po = -16.2
Lo = 30.3



SACRAMENTO PEAK CORONA (1.15 Radii)----

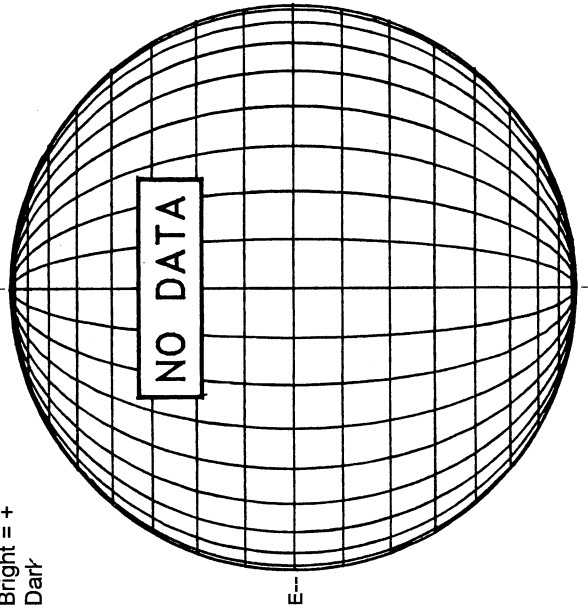


FEBRUARY 12, 2001 (P = -16.40, Bo = -6.70, Lo = 24.24)

KITT PEAK MAGNETOGRAM

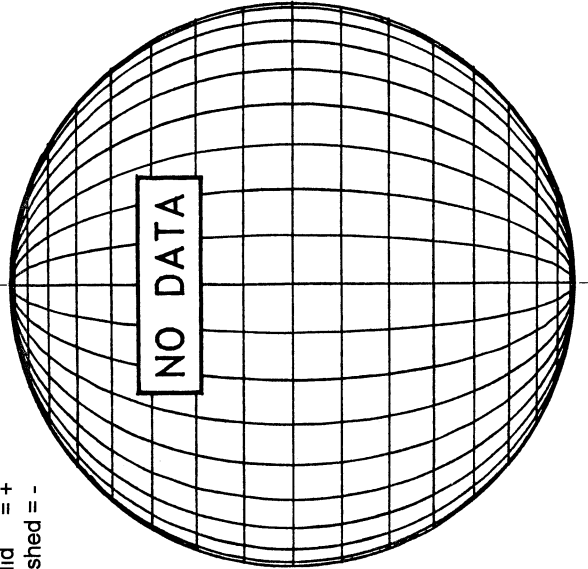
868.8 nm

Bright = +
Dark = -



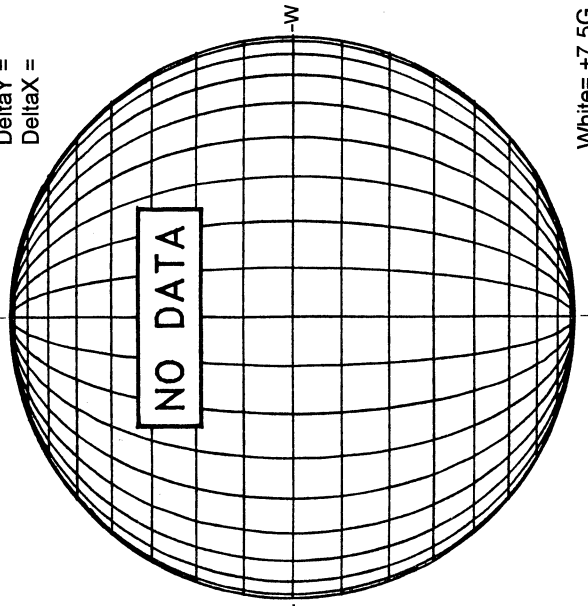
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



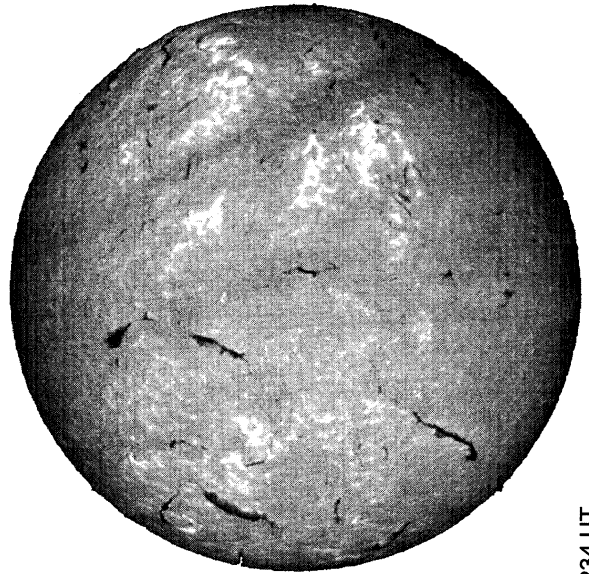
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =



White = +7.5G
Black = -7.5G

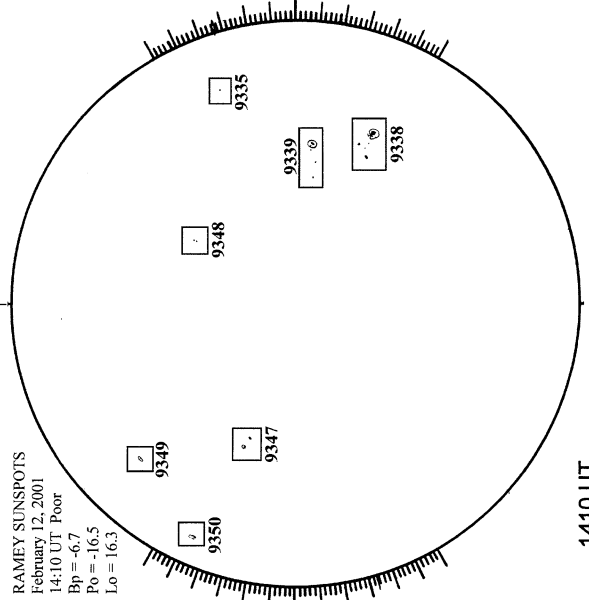
MEUDON H-ALPHA



1234 UT

RAMEY SUNSPOTS

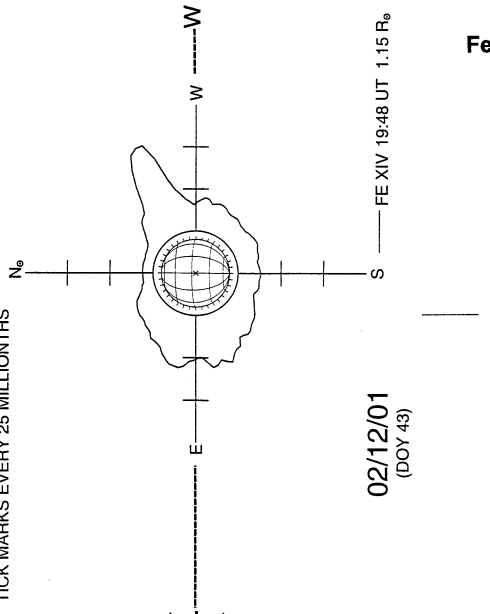
RAMEY SUNSPOTS
February 12, 2001
14:10 UT Poor
Bp = -6.7
Po = -16.5
Lo = 16.3



1410 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 25 MILLIONTHS



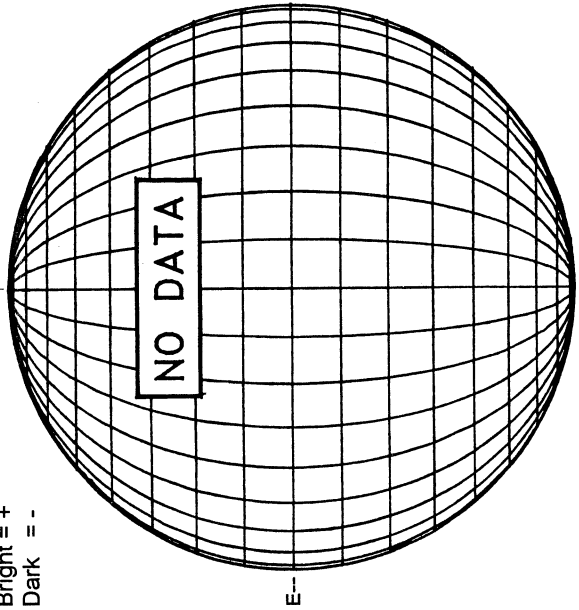
02/12/01
(DOY 43)

FE XIV 19:48 UT 1.15 R_o

FEBRUARY 13, 2001 (P= -16.75, Bo = -6.75, Lo = 11.08)

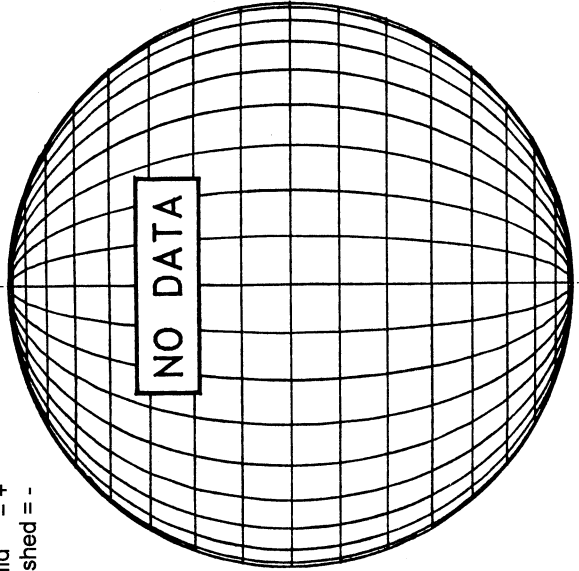
KITT PEAK MAGNETOGRAM
***868.8 nm**

Bright = +
Dark = -



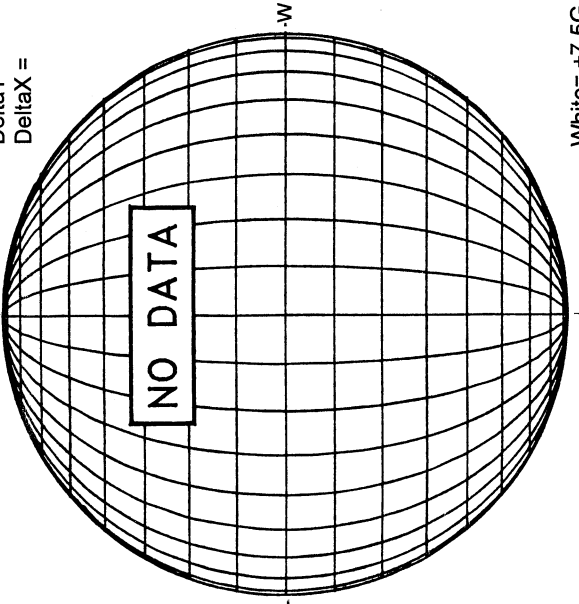
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



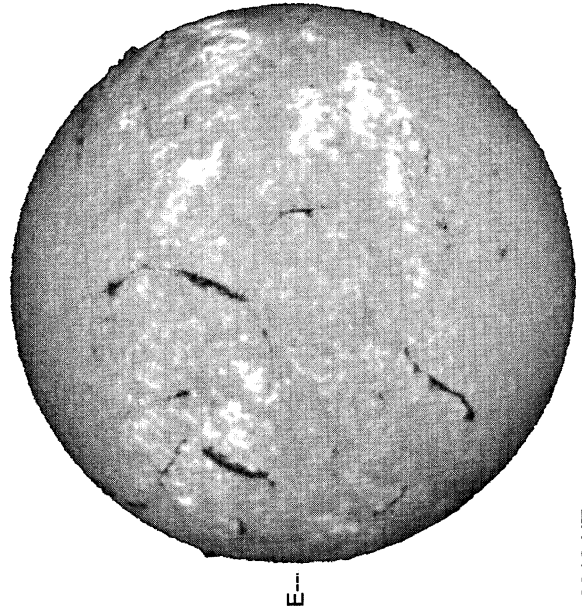
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =



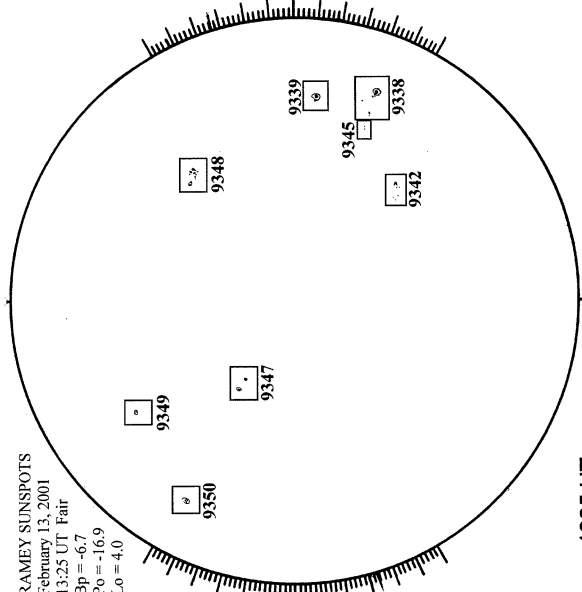
White = +7.5G
Black = -7.5G

MEUDON H-ALPHA



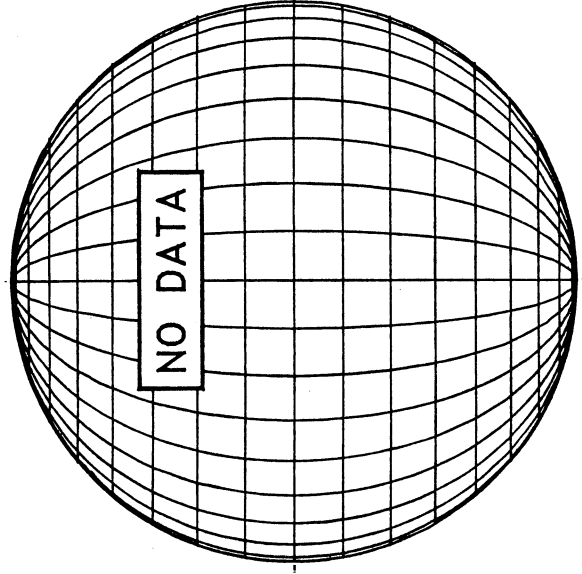
0918 UT

RAMEY SUNSPOTS

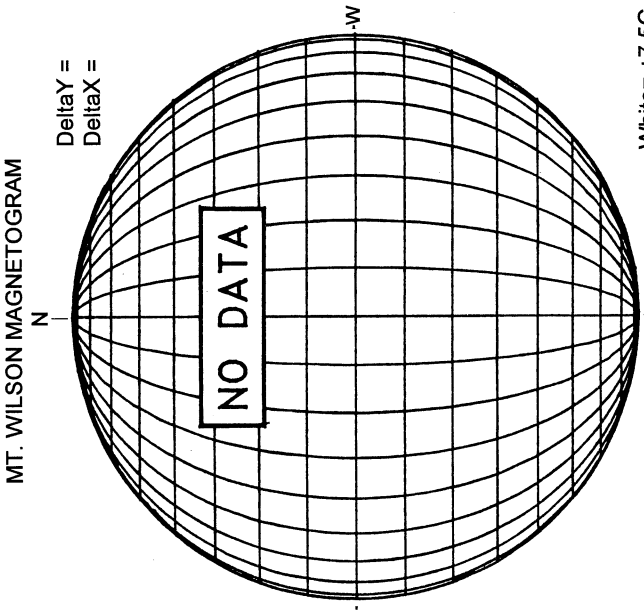
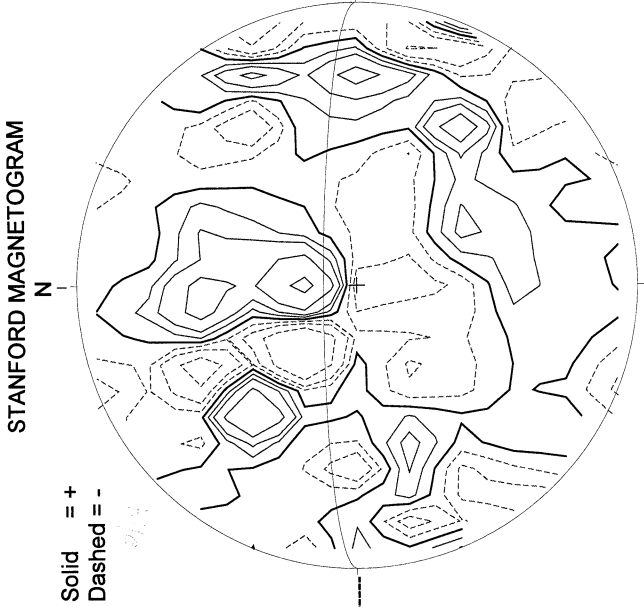
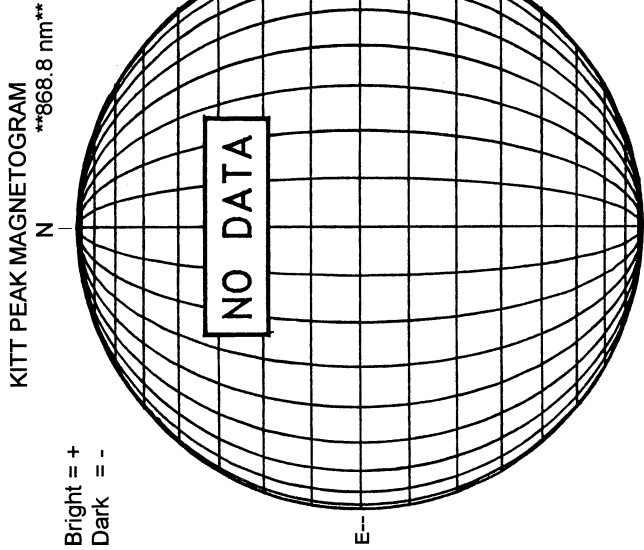


1325 UT

SACRAMENTO PEAK CORONA (1.15 Radii)---

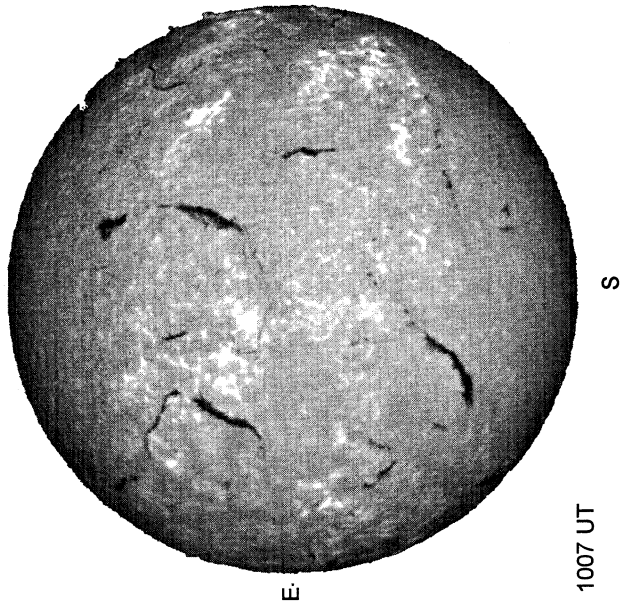


FEBRUARY 14, 2001 (P= -17.09, Bo = -6.79, Lo = 357.91)

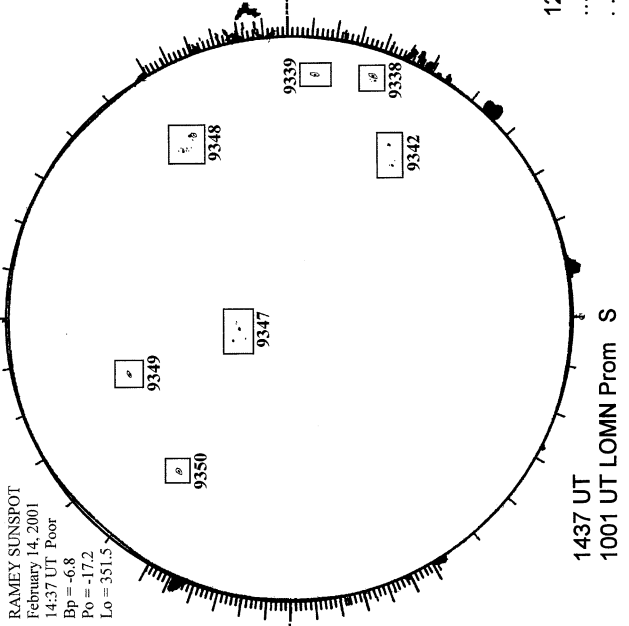


White = +7.5G
Black = -7.5G

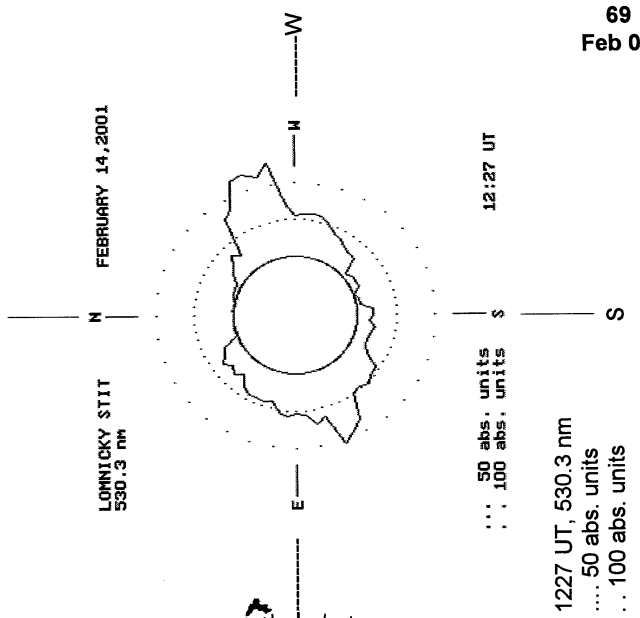
MEUDON H-ALPHA



RAMEY SUNSPOT



LOMNICKY PEAK CORONA (1.04 Radii)----

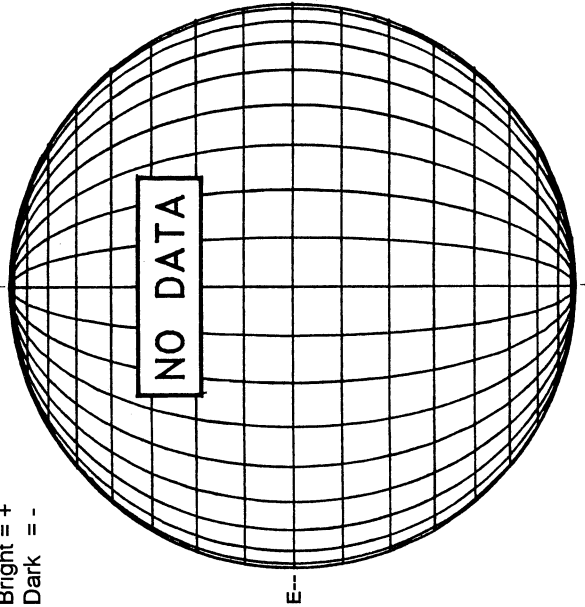


FEBRUARY 15, 2001 (P = -17.43, Bo = -6.84, Lo = 344.74)

KITT PEAK MAGNETOGRAM

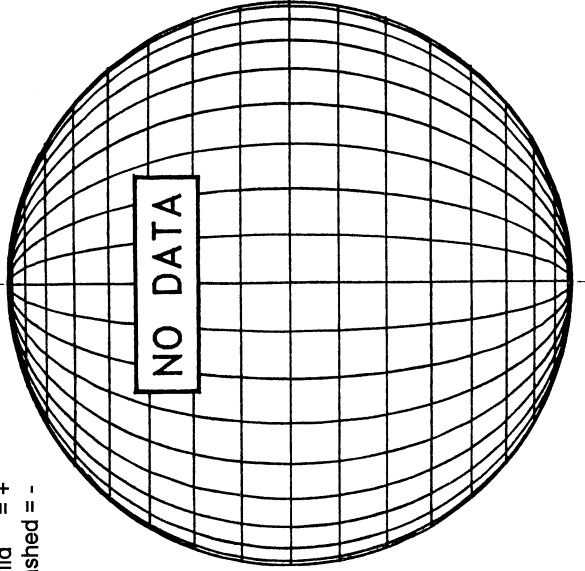
868.8 nm

Bright = +
Dark = -



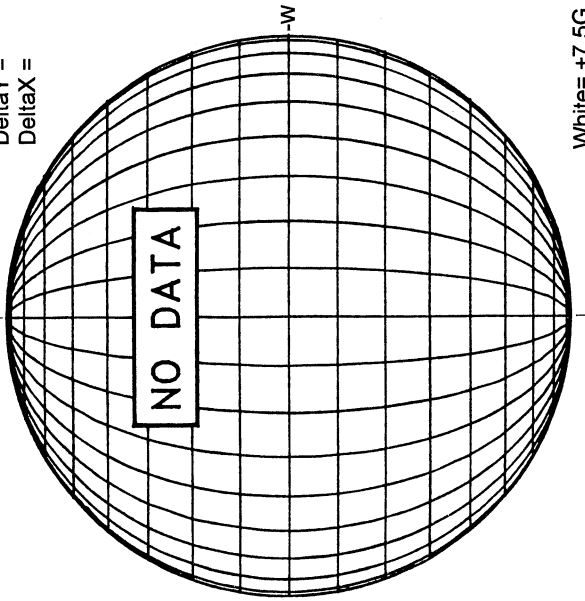
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



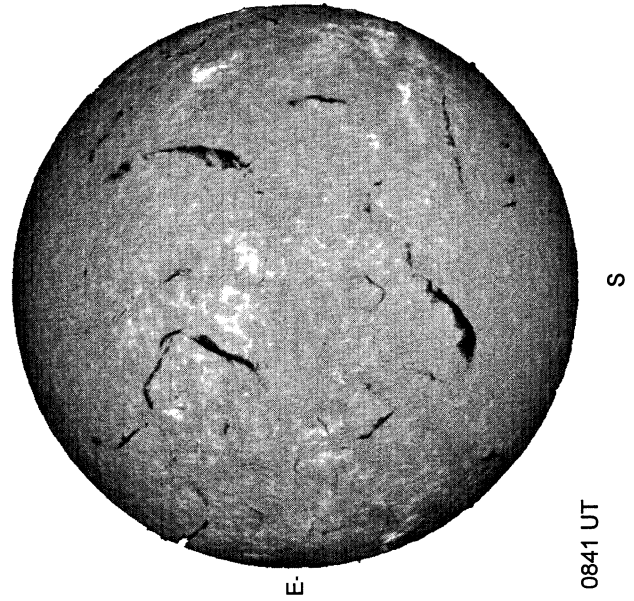
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =



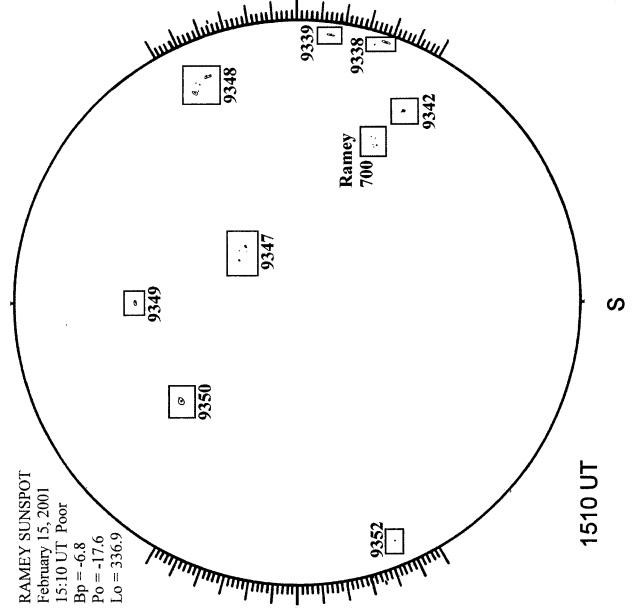
White = +7.5G
Black = -7.5G

MEUDON H-ALPHA



0841 UT

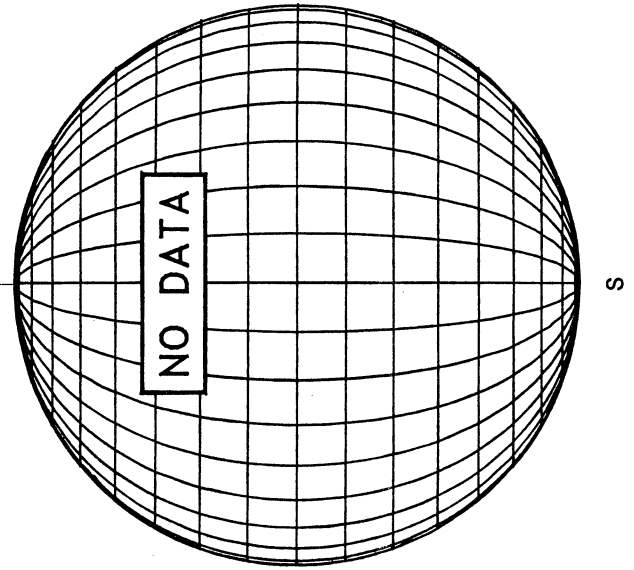
RAMEY SUNSPOT



RAMEY SUNSPOT
February 15, 2001
15:10 UT Poor
Bp = -6.8
Po = -17.6
Lo = 336.9

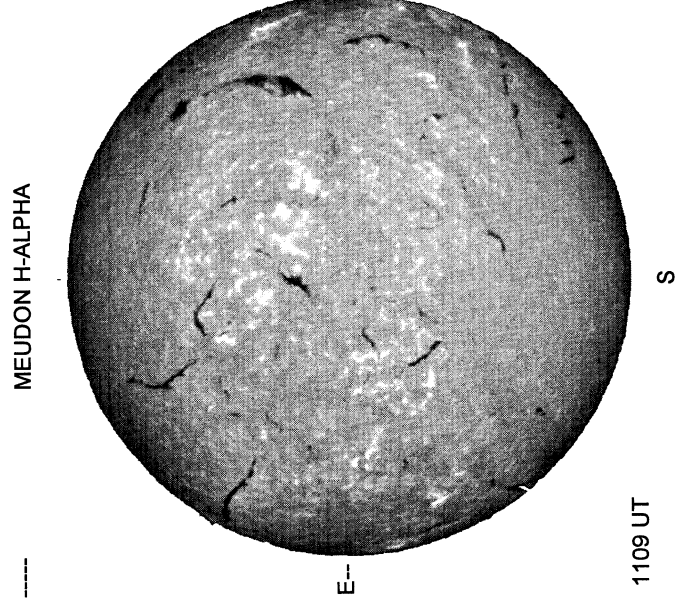
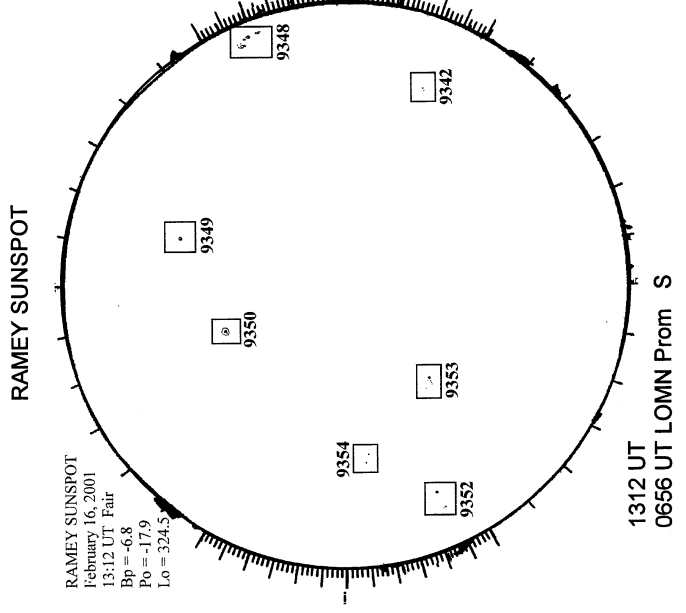
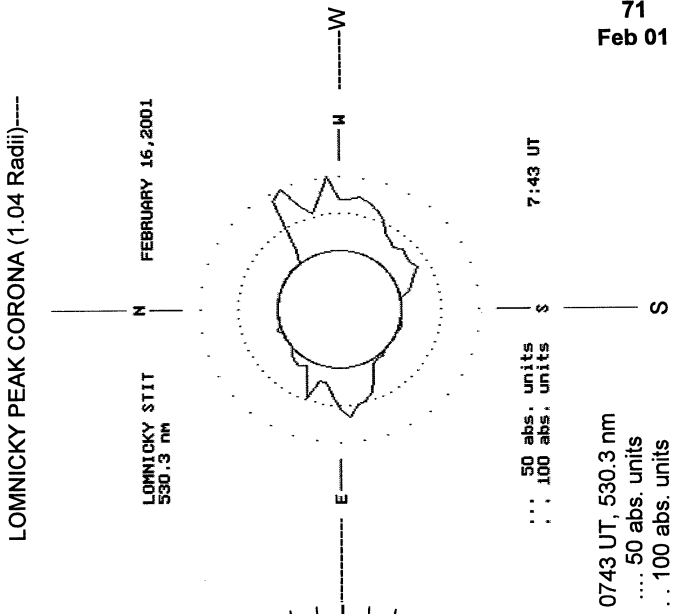
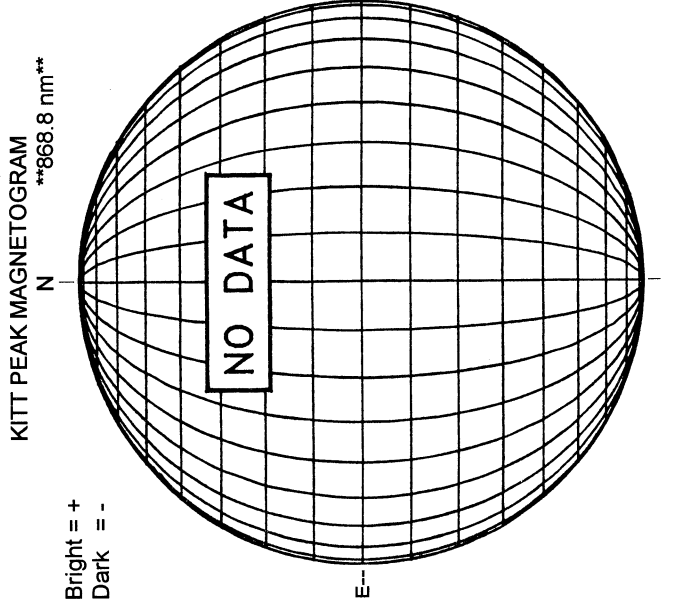
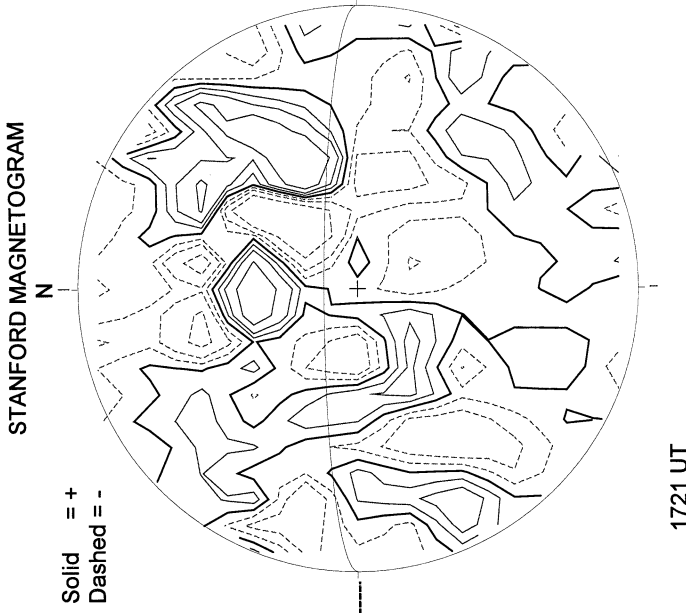
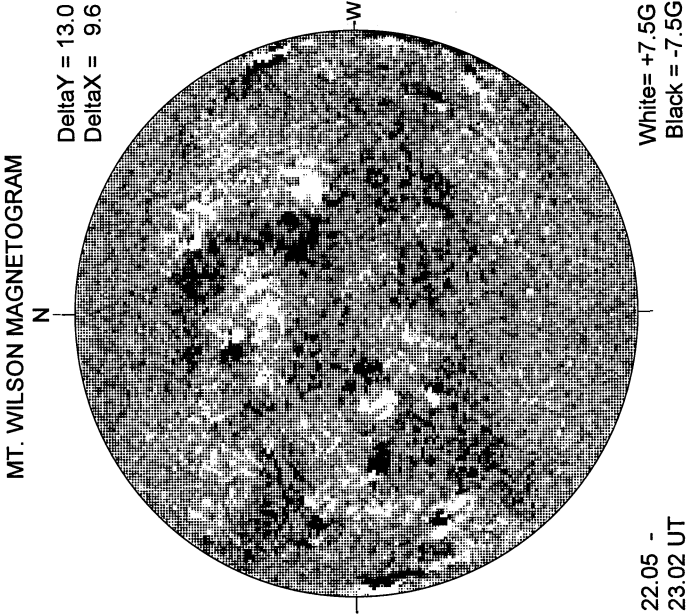
1510 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



S

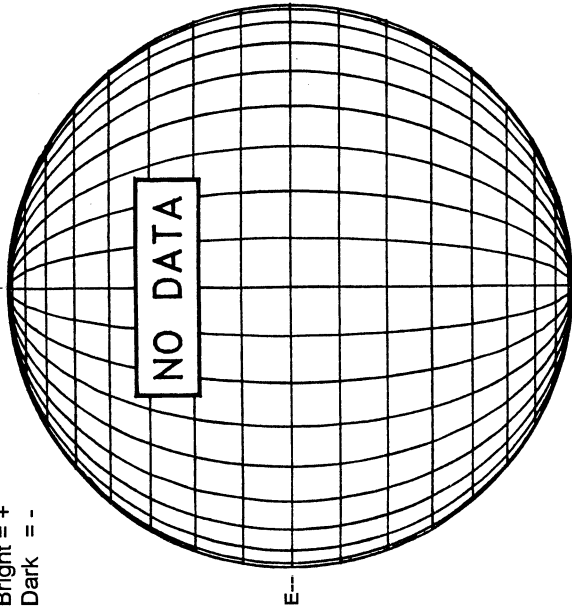
FEBRUARY 16, 2001 (P = -17.76, Bo = -6.88, Lo = 331.57)



FEBRUARY 17, 2001 (P= -18.09, Bo = -6.92, Lo = 318.40)

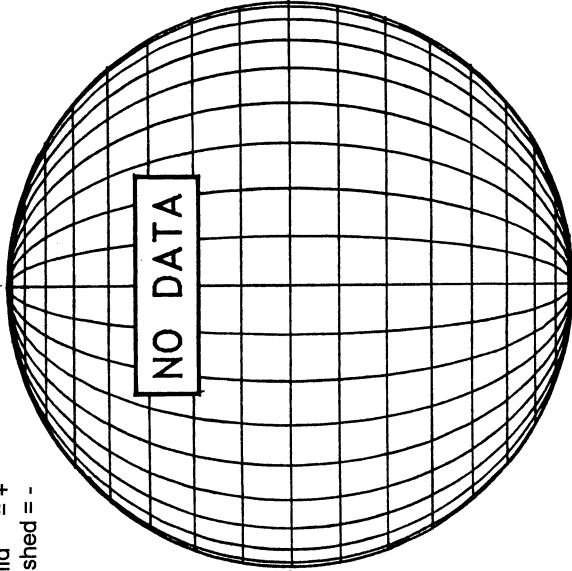
KITT PEAK MAGNETOGRAM
868.8 nm

Bright = +
Dark = -



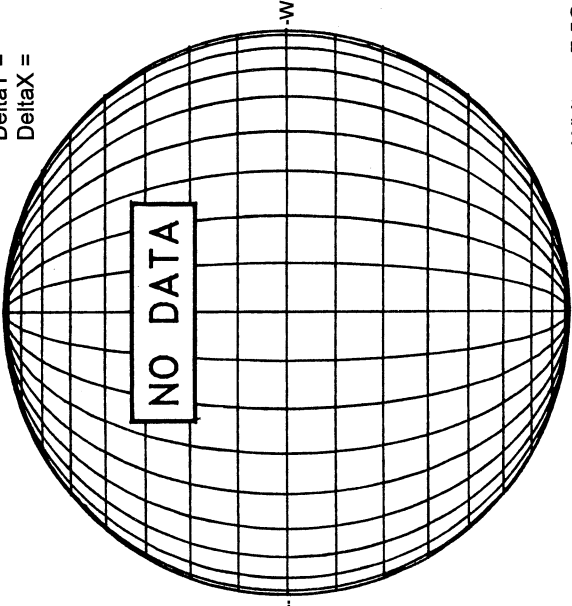
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



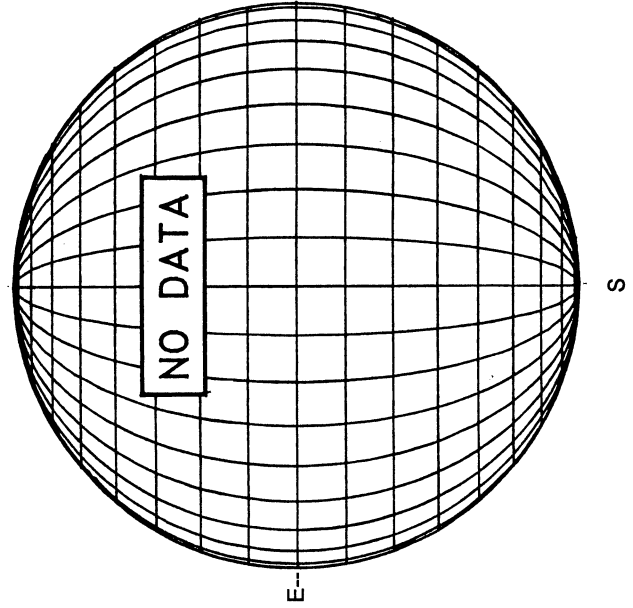
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =



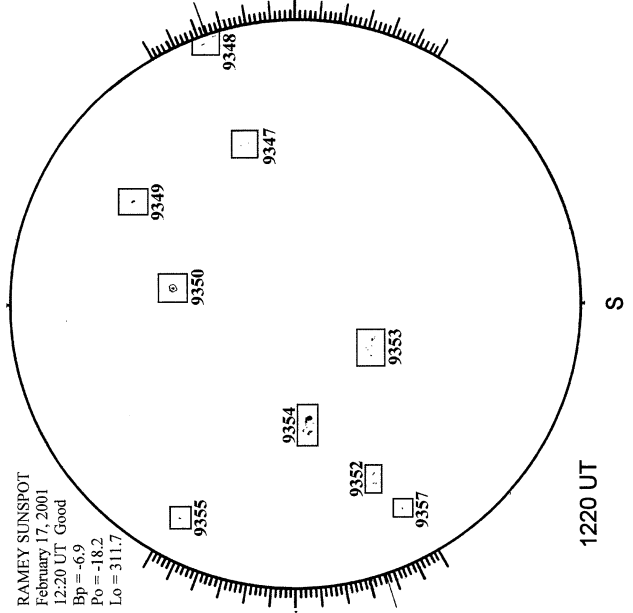
White = +7.5G
Black = -7.5G

MEUDON H-ALPHA

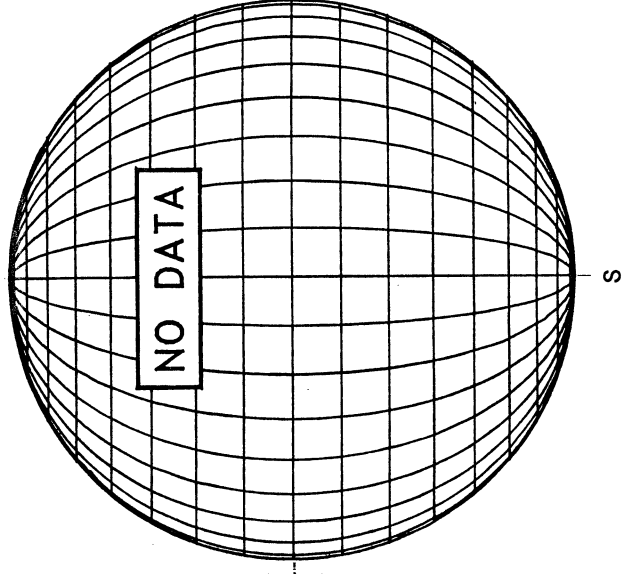


RAMEY SUNSPOT

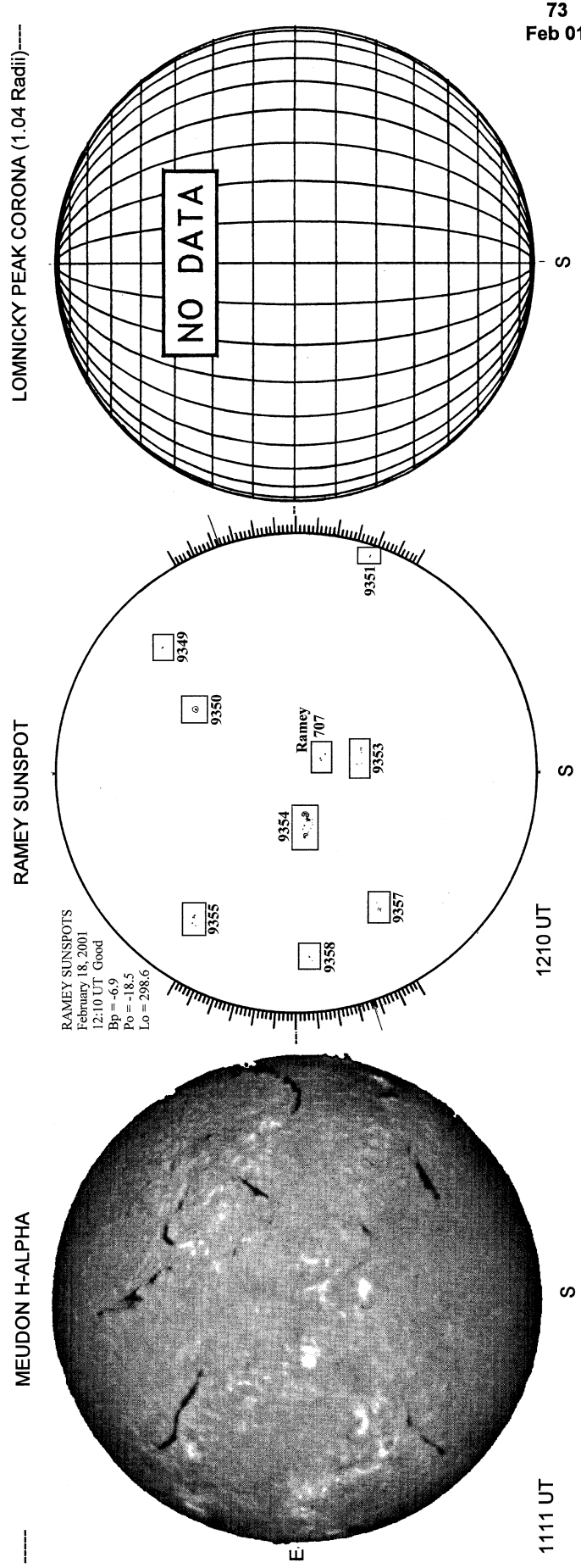
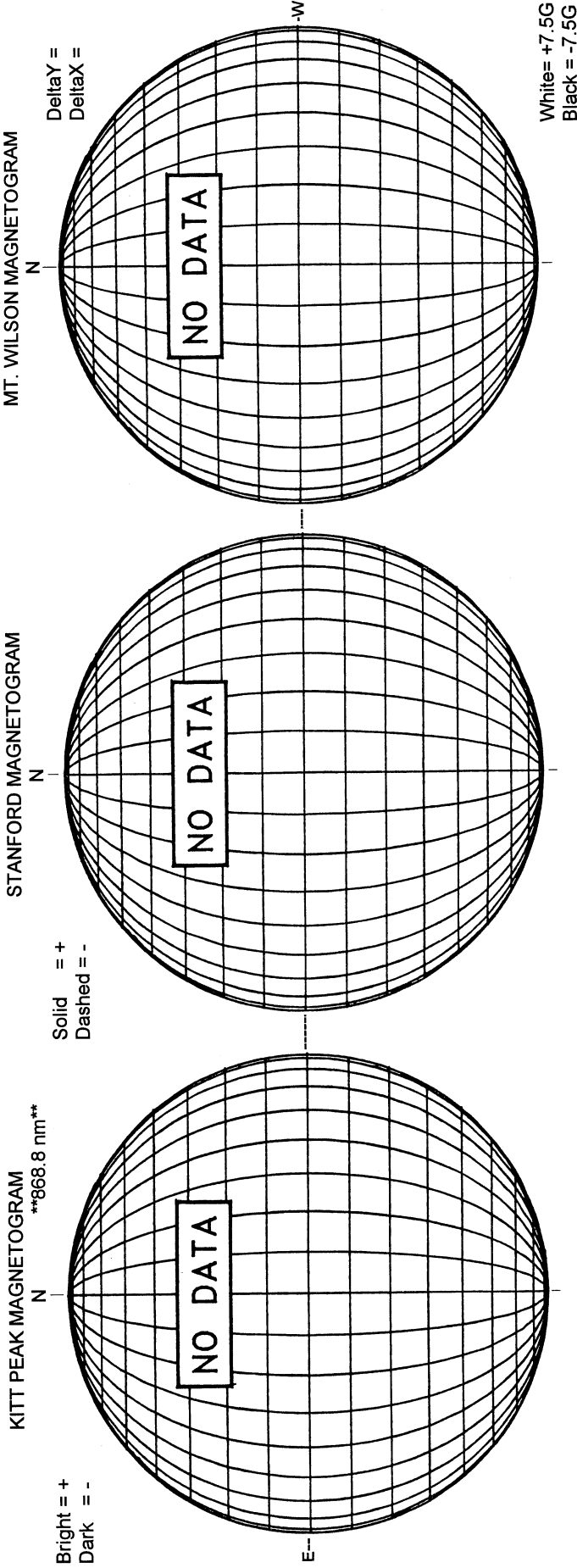
RAMEY SUNSPOT
February 17, 2001
12:20 UT Good
Bp = -6.9
Po = -18.2
Lo = 311.7



LOMNICKY PEAK CORONA (1.04 Radii)----



FEBRUARY 18, 2001 (P= -18.41, Bo = -6.95, Lo = 305.24)

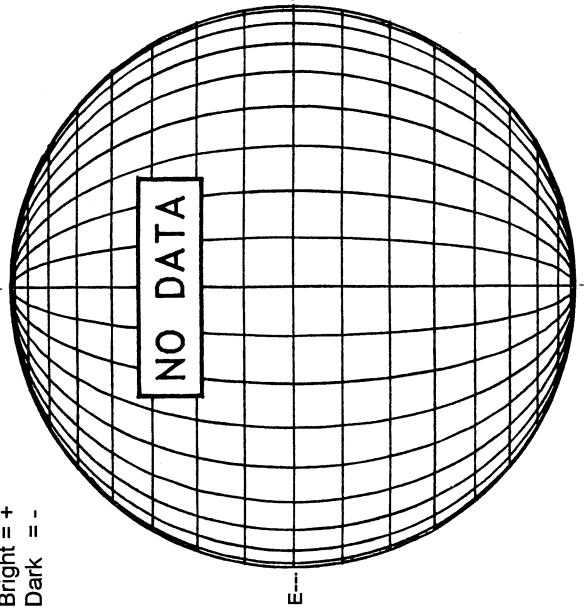


FEBRUARY 19, 2001 (P= -18.72, Bo = -6.99, Lo = 292.07)

KITT PEAK MAGNETOGRAM

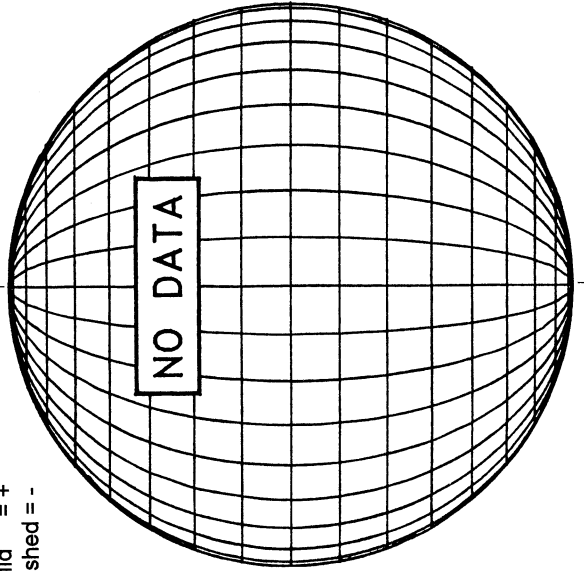
868.8 nm

Bright = +
Dark = -



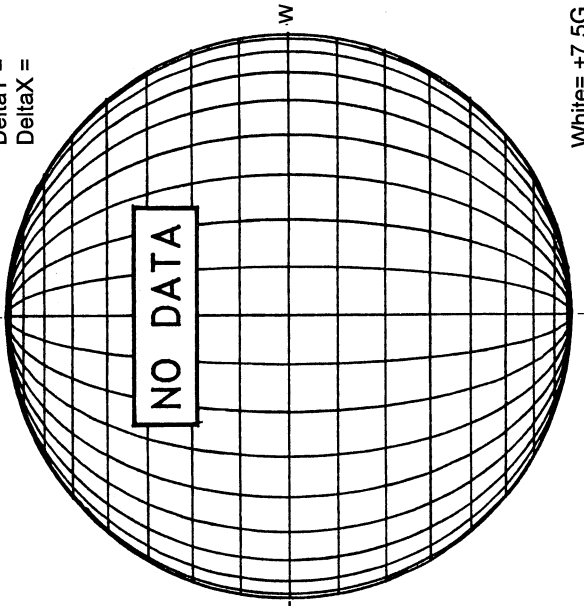
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



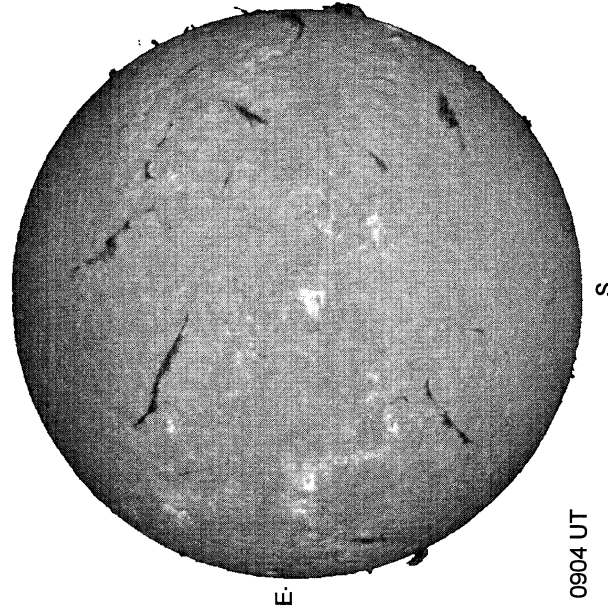
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =



White = +7.5G
Black = -7.5G

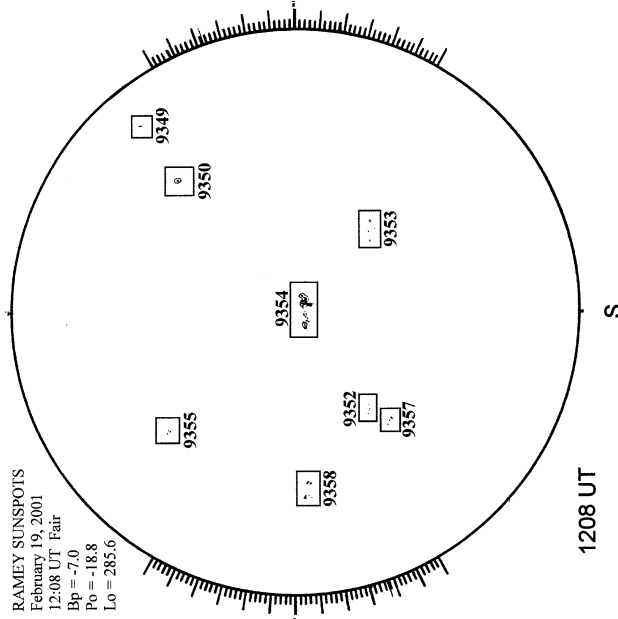
MEUDON H-ALPHA



0904 UT

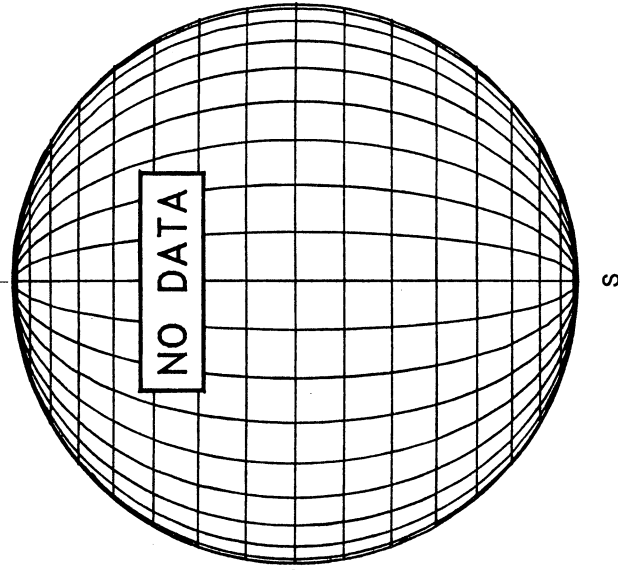
RAMEY SUNSPOT

RAMEY SUNSPOTS
February 19, 2001
12:08 UT Fair
Bp = -7.0
Po = -18.8
Lo = 283.6



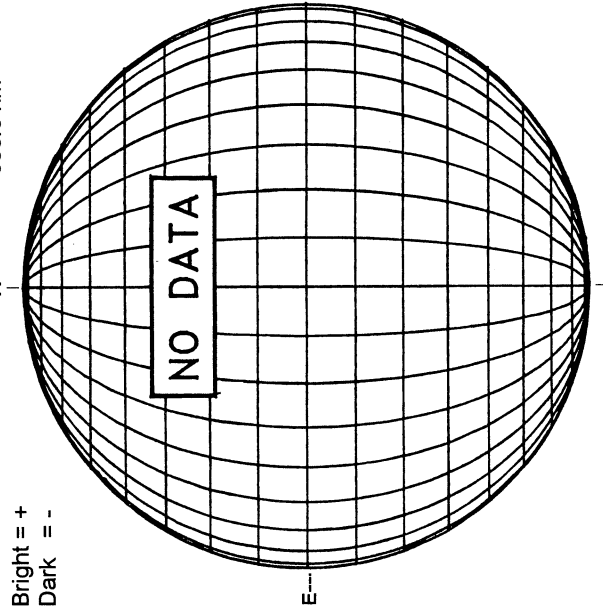
1208 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

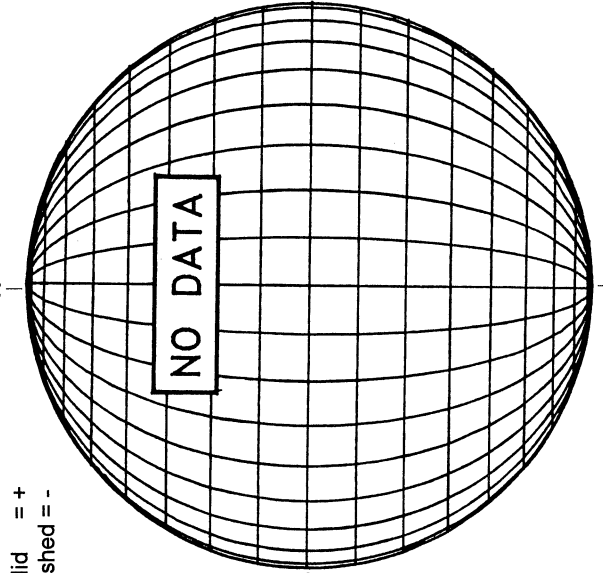


FEBRUARY 20, 2001 (P= -19.03, Bo = -7.02, Lo = 278.90)

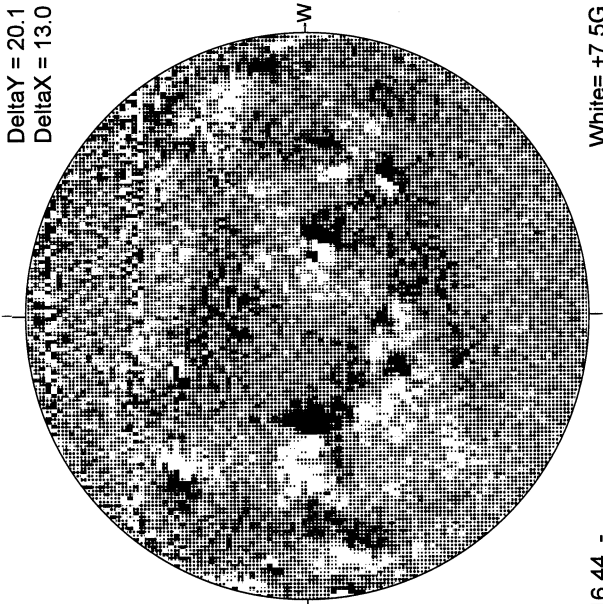
KITT PEAK MAGNETOGRAM
868.8 nm



STANFORD MAGNETOGRAM



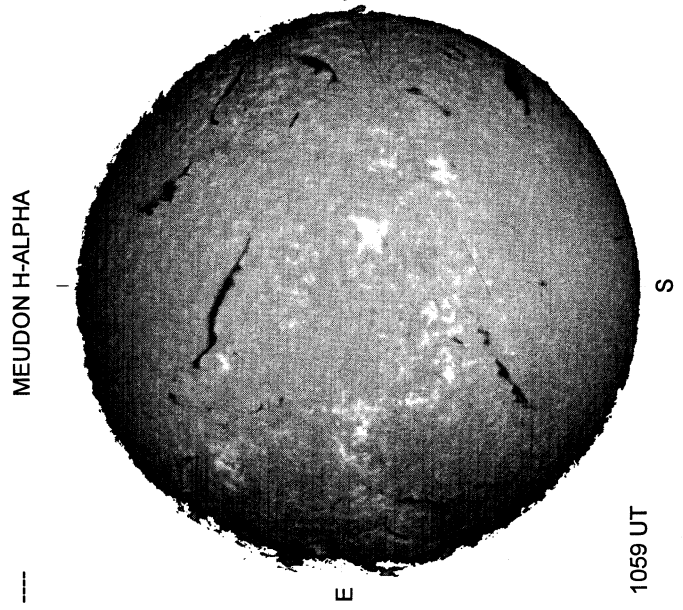
MT. WILSON MAGNETOGRAM



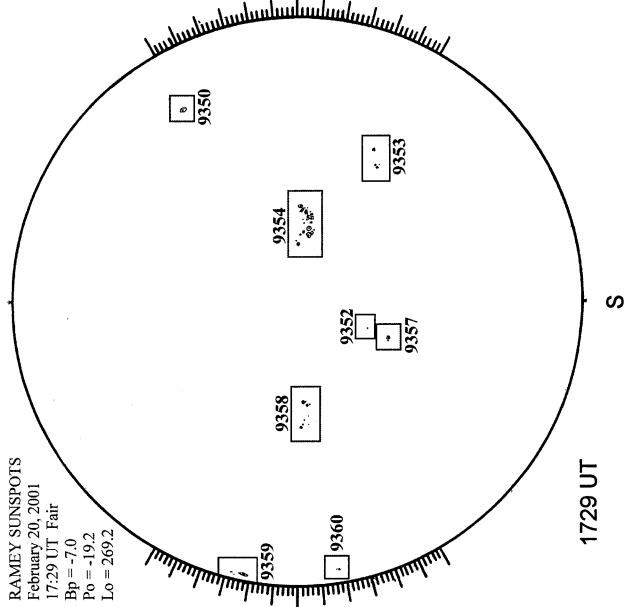
16.44 -
16.86 UT

White = +7.5G
Black = -7.5G

MEUDON H-ALPHA

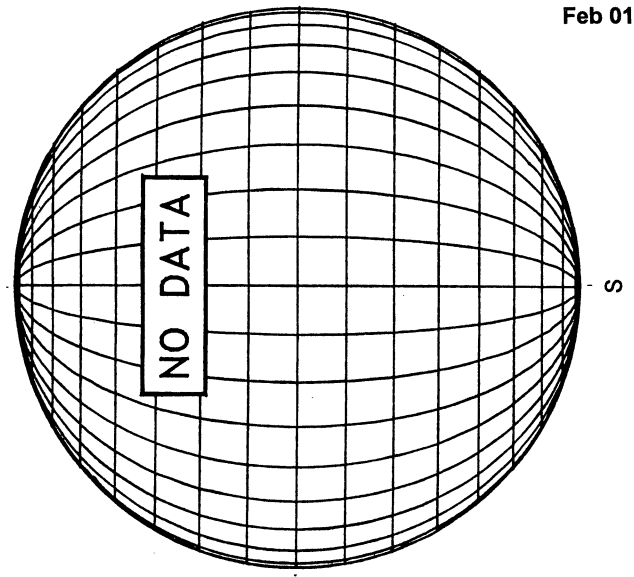


RAMEY SUNSPOT



RAMEY SUNSPOTS
February 20, 2001
17:29 UT Fair
Bp = -7.0
Po = -19.2
Lo = 269.2

LOMNICKY PEAK CORONA (1.04 Radii)----

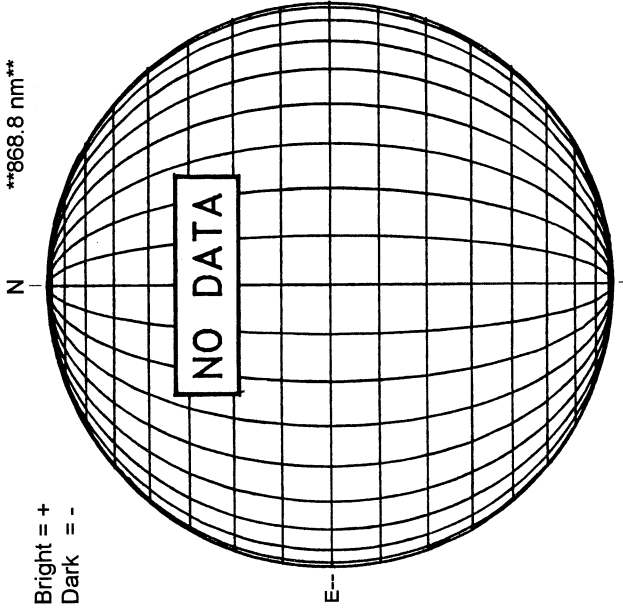


FEBRUARY 21, 2001 (P= -19.34, Bo = -7.05, Lo = 265.73)

76
Feb 01

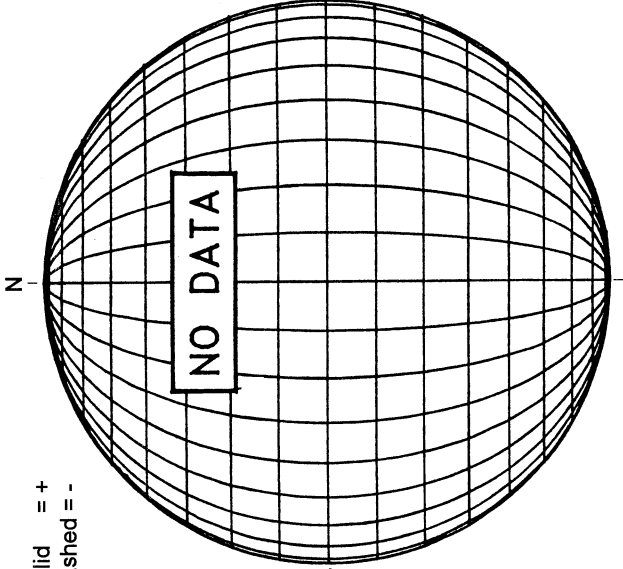
KITT PEAK MAGNETOGRAM
868.8 nm

Bright = +
Dark = -



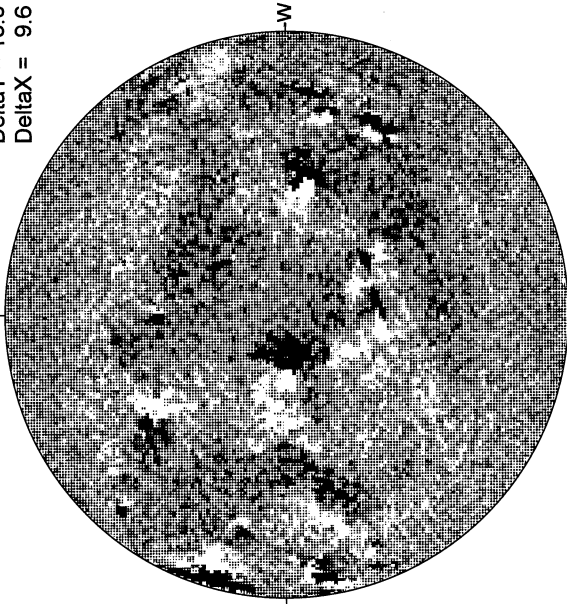
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

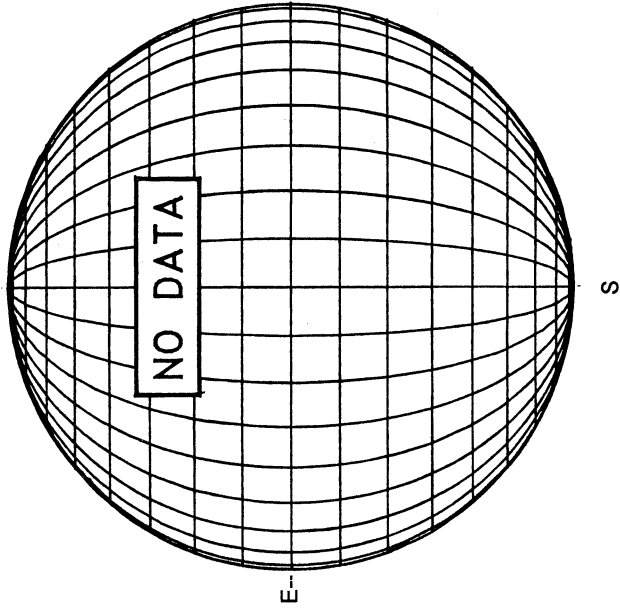
DeltaY = 13.0
DeltaX = 9.6



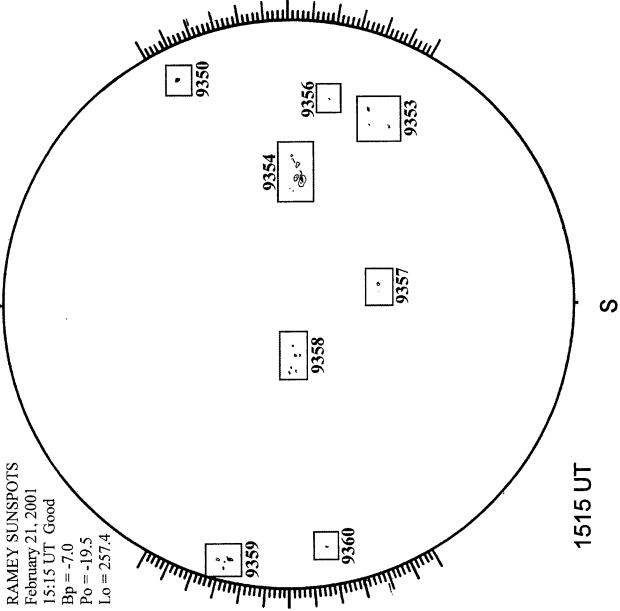
16:31 -
17:27 UT

White = +7.5G
Black = -7.5G

MEUDON H-ALPHA

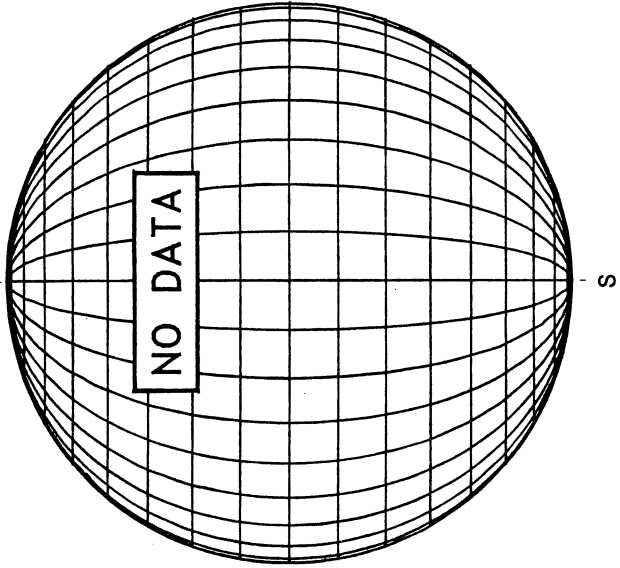


RAMEY SUNSPOT

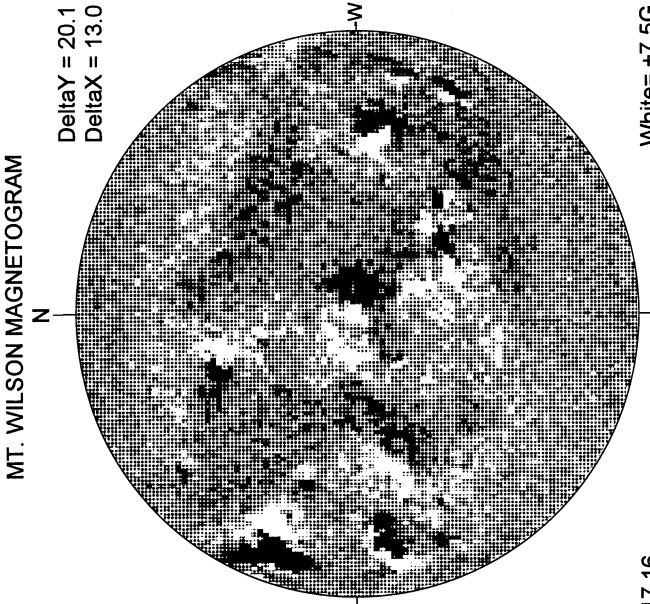
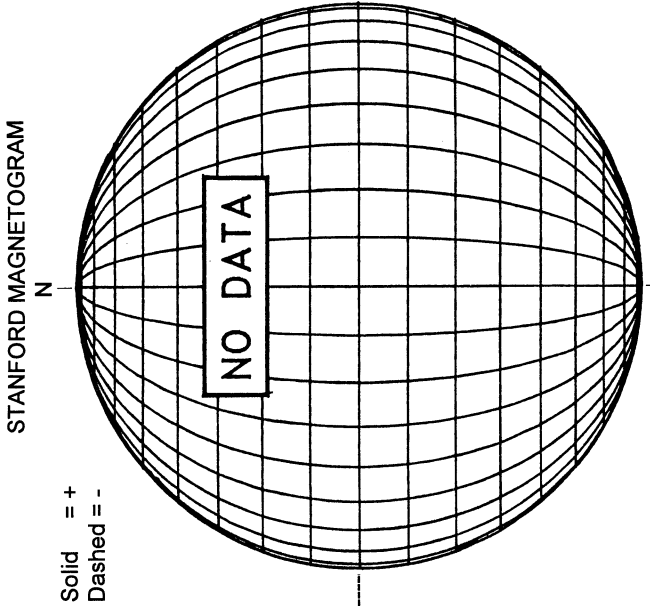
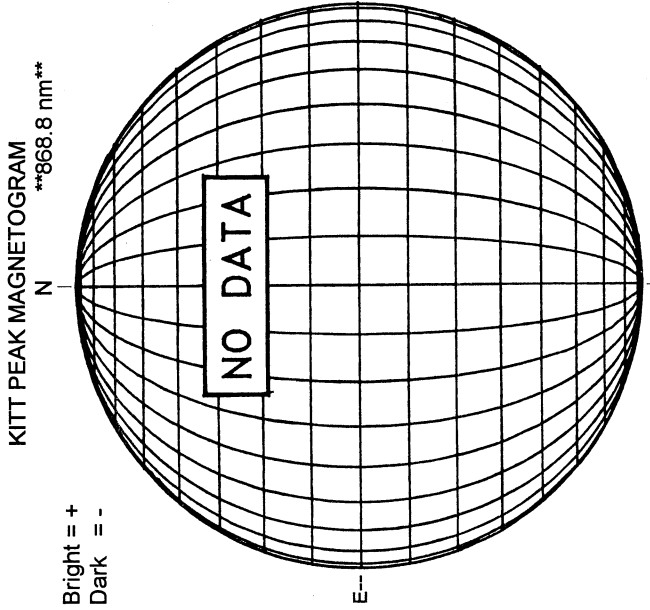


RAMEY SUNSPOTS
February 21, 2001
15:15 UT Good
Bp = -7.0
Po = -19.5
Lo = 257.4

LOMNICKY PEAK CORONA (1.04 Radii)----



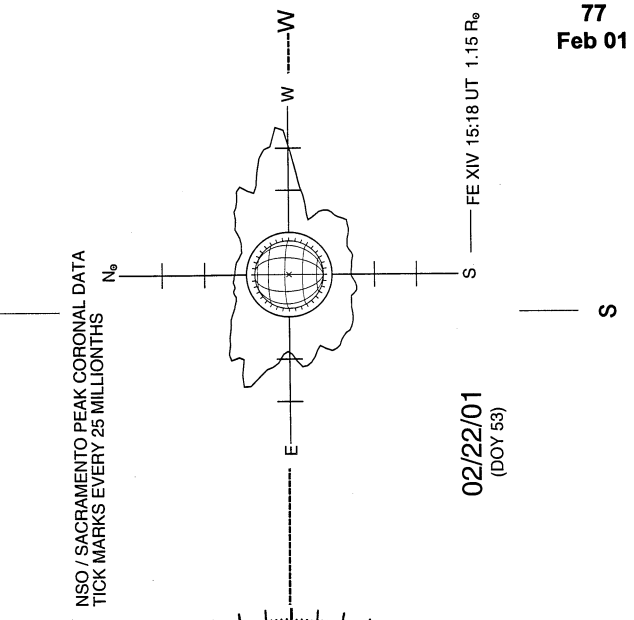
FEBRUARY 22, 2001 (P= -19.64, Bo = -7.08, Lo = 252.56)



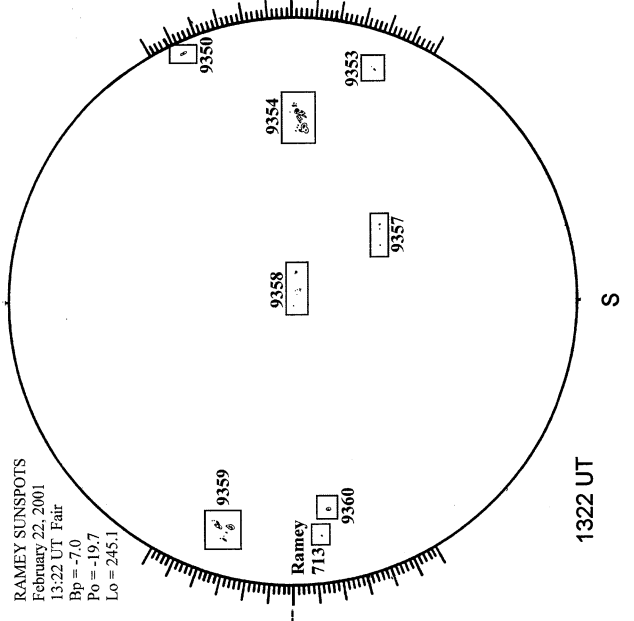
White = +7.5G
Black = -7.5G

17.16 -
17.58 UT

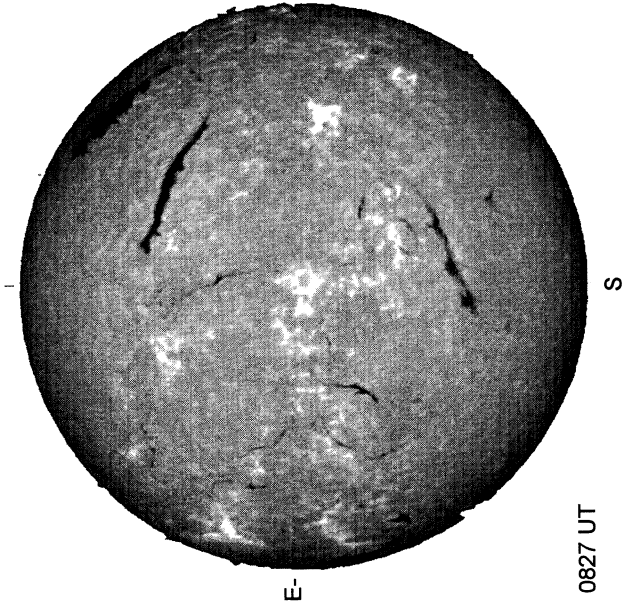
SACRAMENTO PEAK CORONA (1.15 Radii)---



RAMEY SUNSPOT



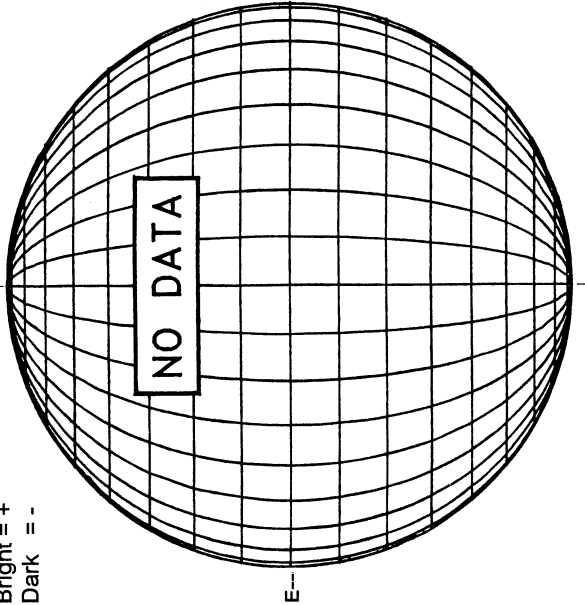
MEUDON H-ALPHA



FEBRUARY 23, 2001 (P= -19.93, Bo = -7.11, Lo = 239.39)

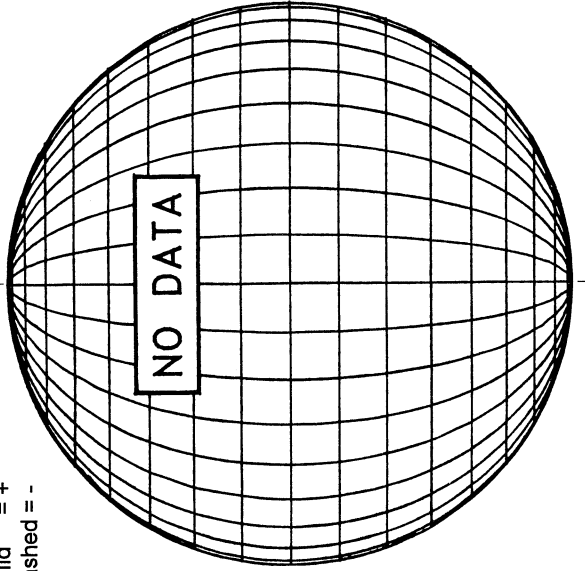
KITT PEAK MAGNETOGRAM
868.8 nm

Bright = +
Dark = -



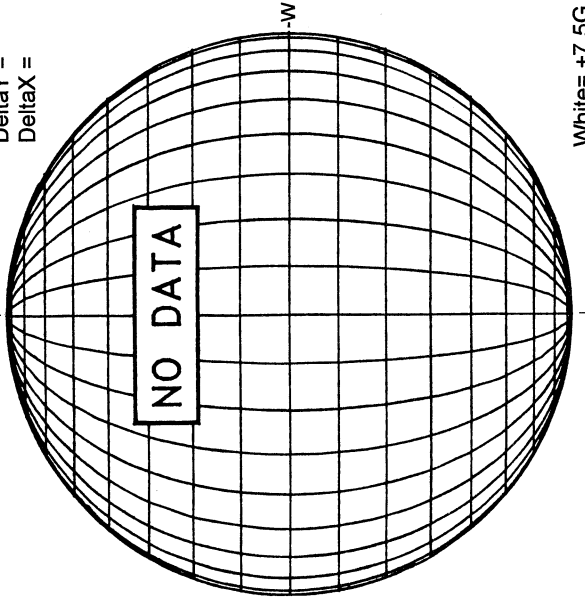
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



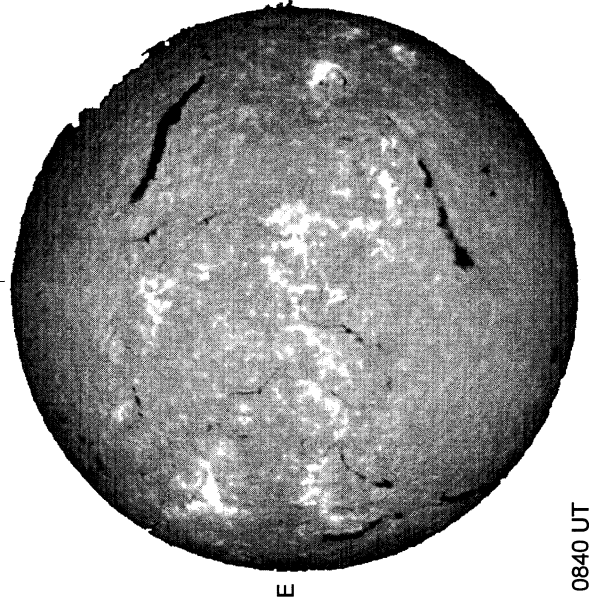
MT. WILSON MAGNETOGRAM

DeltaY =
DeltaX =



White = +7.5G
Black = -7.5G

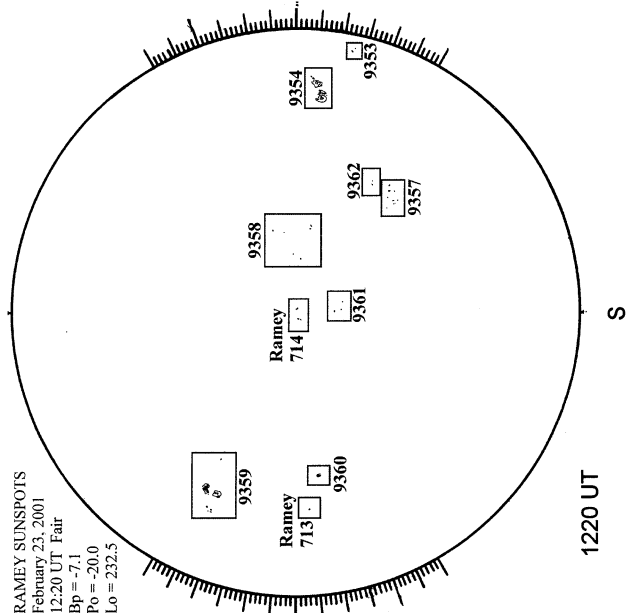
MEUDON H-ALPHA



0840 UT

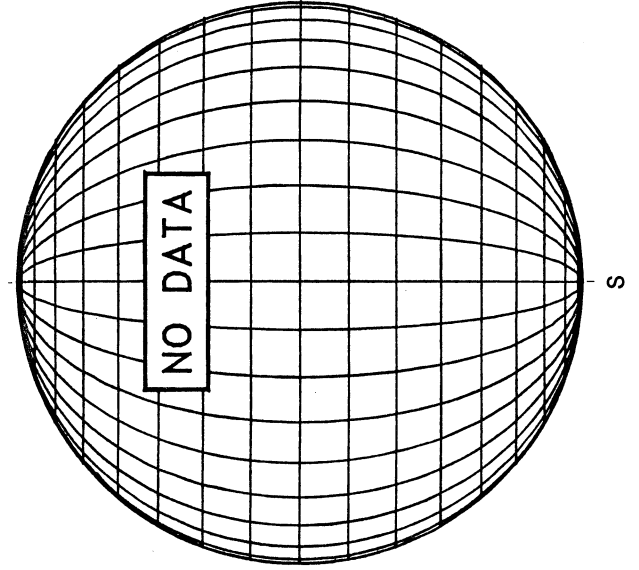
RAMEY SUNSPOT

RAMEY SUNSPOTS
February 23, 2001
12:20 UT Fair
Bp = -7.1
Po = -20.0
Lo = 232.5

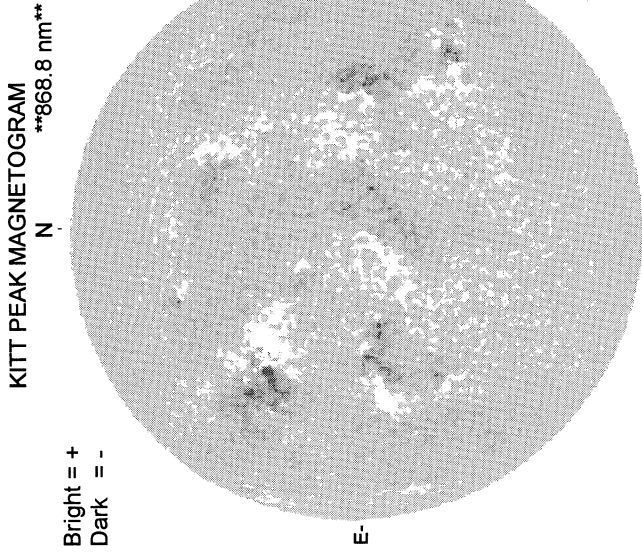


1220 UT

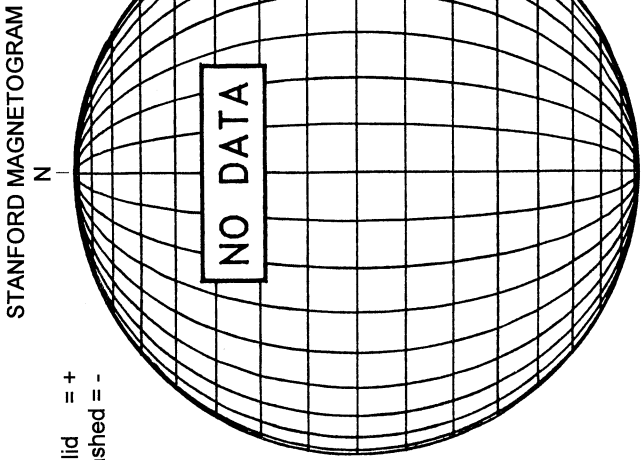
SACRAMENTO PEAK CORONA (1.15 Radii)



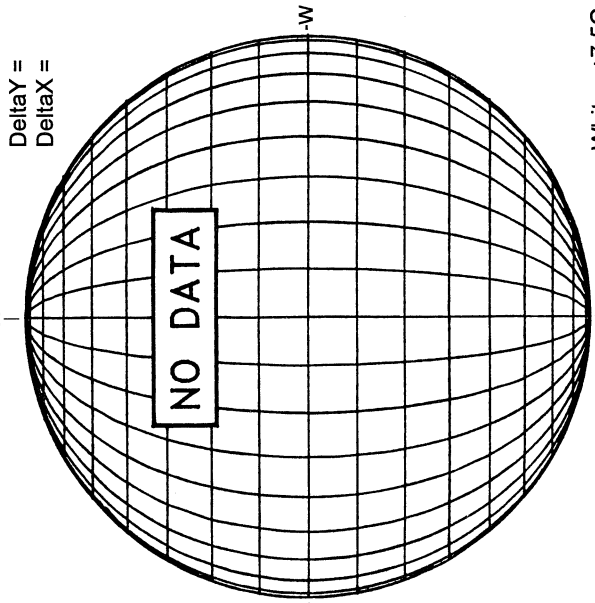
FEBRUARY 24, 2001 (P= -20.21, Bo = -7.13, Lo = 226.22)



Solid = +
Dashed = -

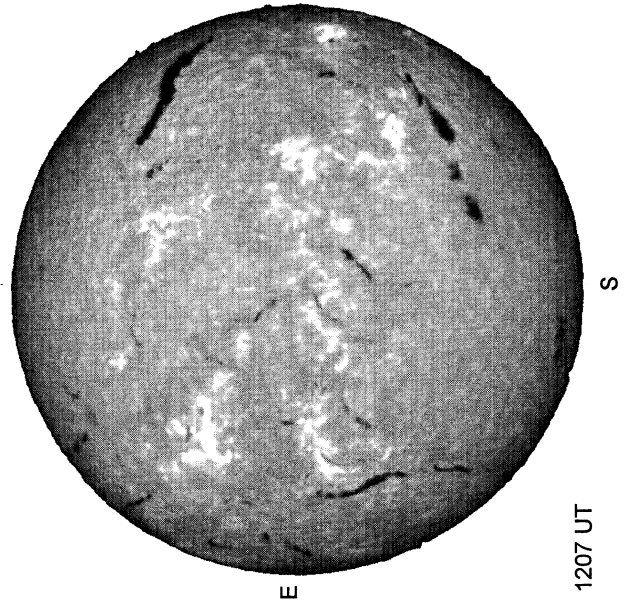


MT. WILSON MAGNETOGRAM

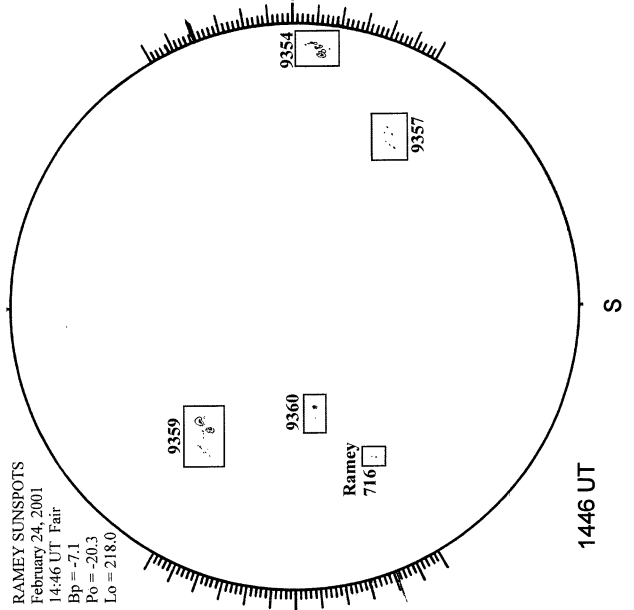


White = +7.5G
Black = -7.5G

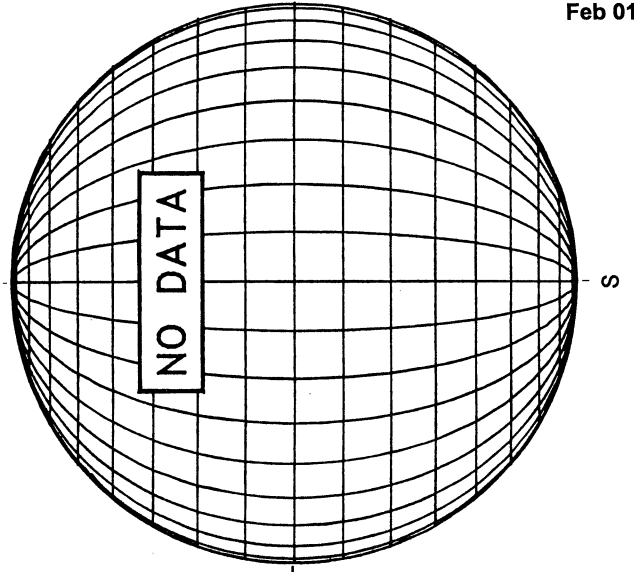
MEUDON H-ALPHA



RAMEY SUNSPOT



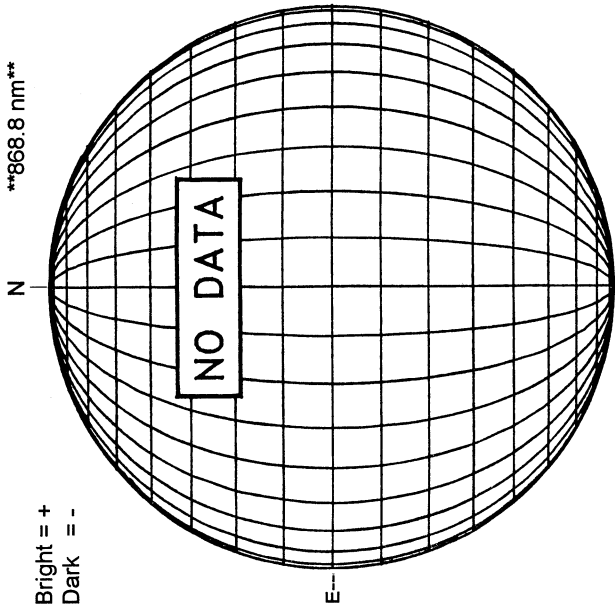
SACRAMENTO PEAK CORONA (1.15 Radii)----



FEBRUARY 25, 2001 (P= -20.49, Bo = -7.15, Lo = 213.05)

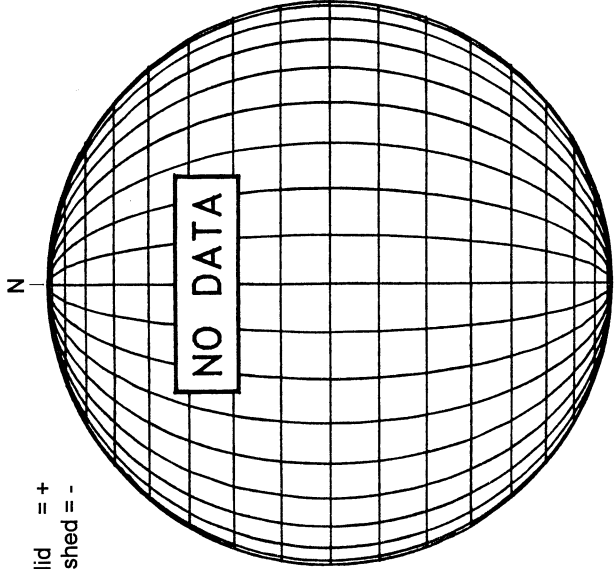
KITT PEAK MAGNETOGRAM
868.8 nm

Bright = +
Dark = -



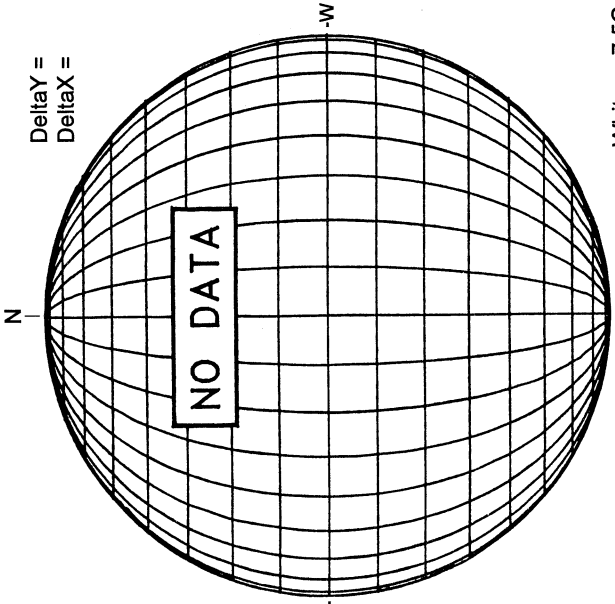
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



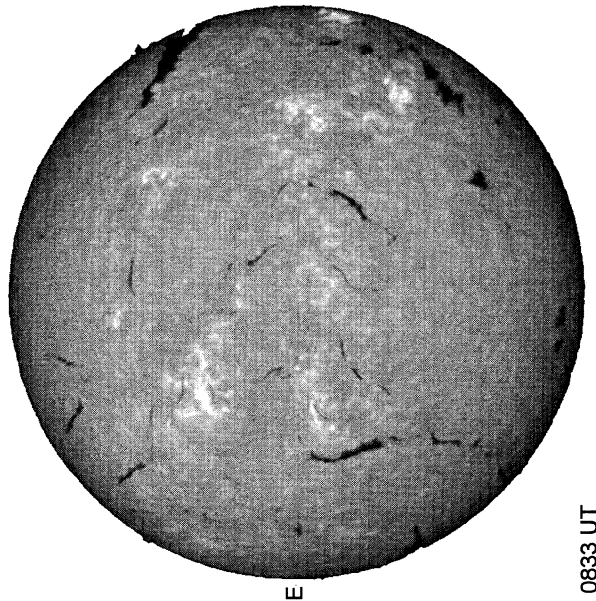
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =

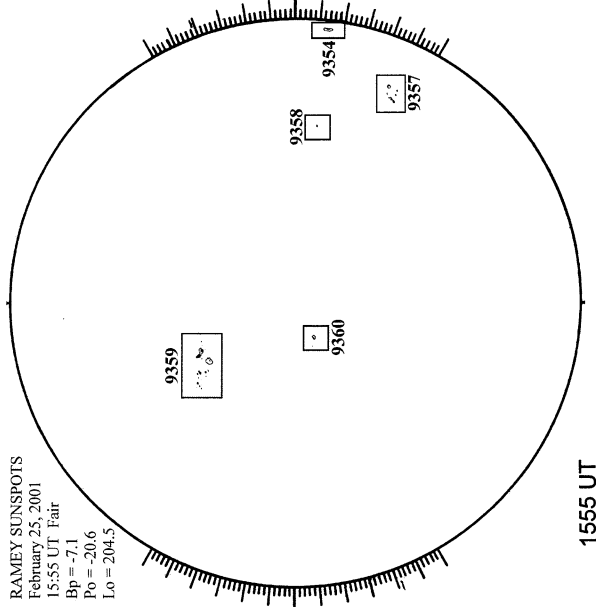


White = +7.5G
Black = -7.5G

MEUDON H-ALPHA

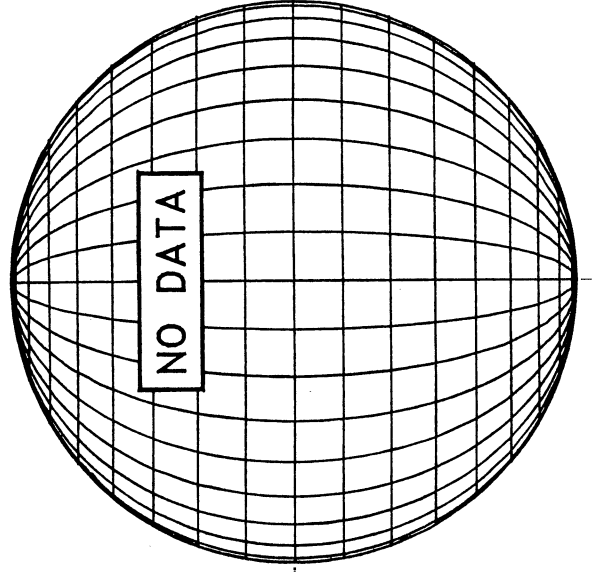


RAMEY SUNSPOT

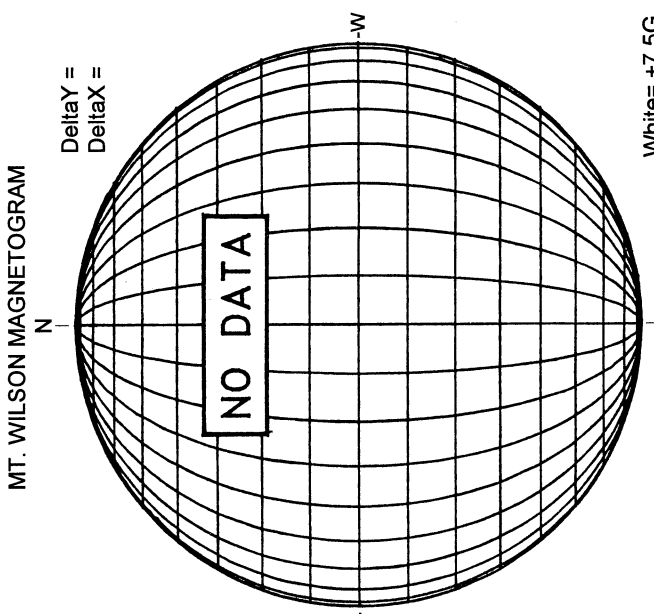
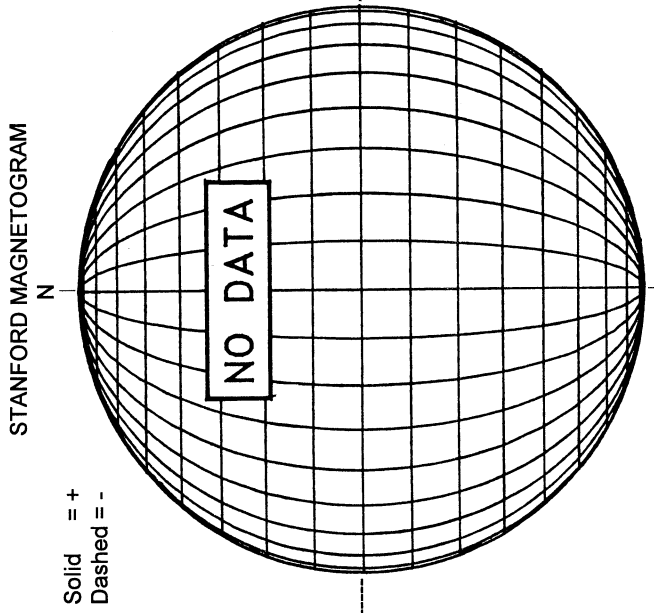
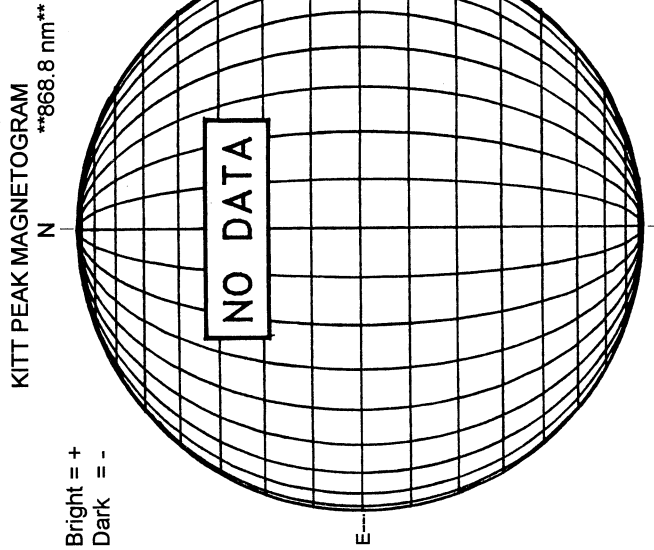


RAMEY SUNSPOTS
February 25, 2001
15:55 UT Fair
Bp = -7.1
Po = -20.6
Lo = 204.5

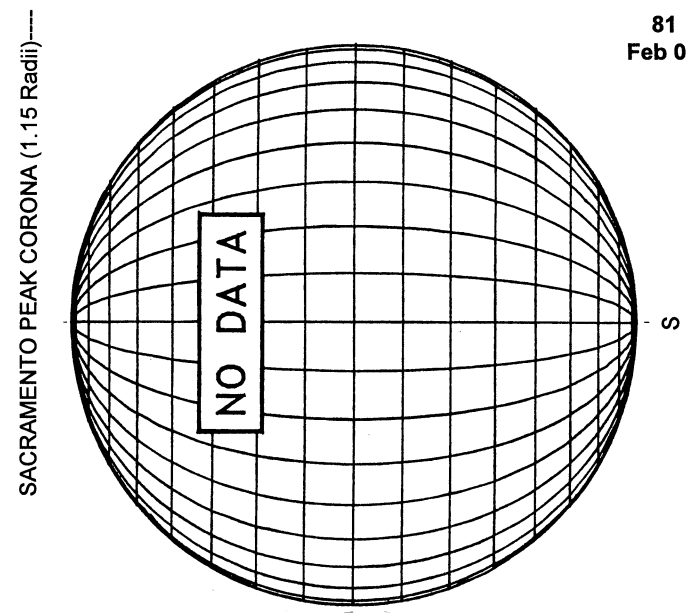
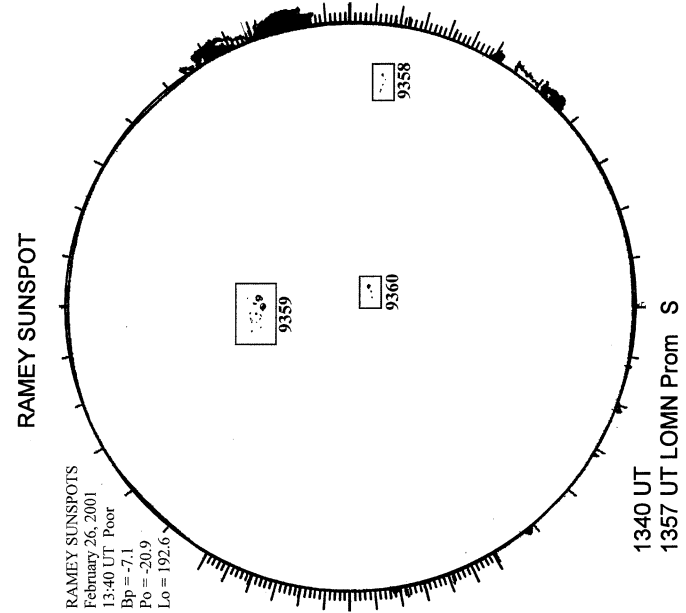
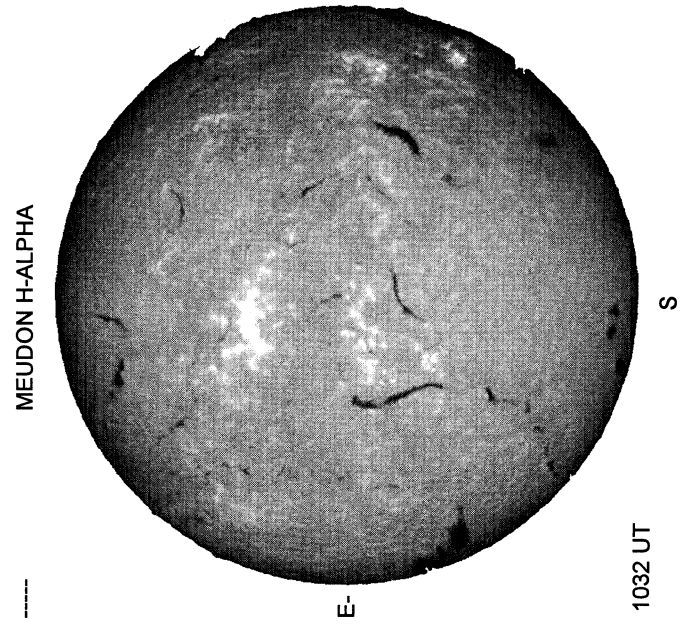
SACRAMENTO PEAK CORONA (1.15 Radii)----



FEBRUARY 26, 2001 (P= -20.77, Bo = -7.17, Lo = 199.88)



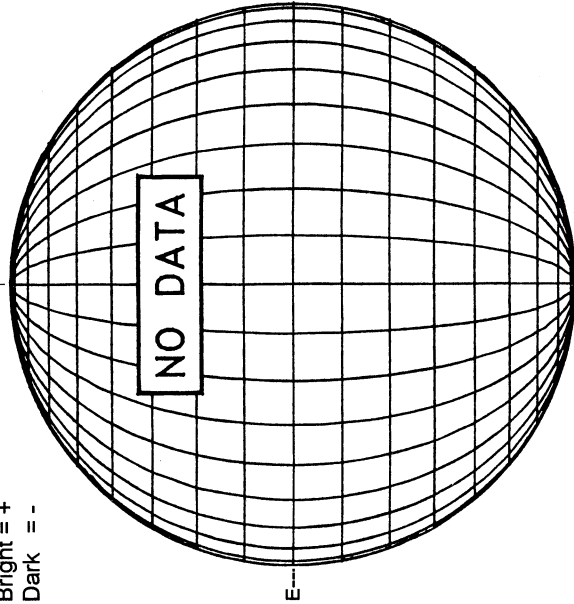
White = +7.5G
Black = -7.5G



FEBRUARY 27, 2001 (P= -21.03, Bo = -7.19, Lo = 186.71)

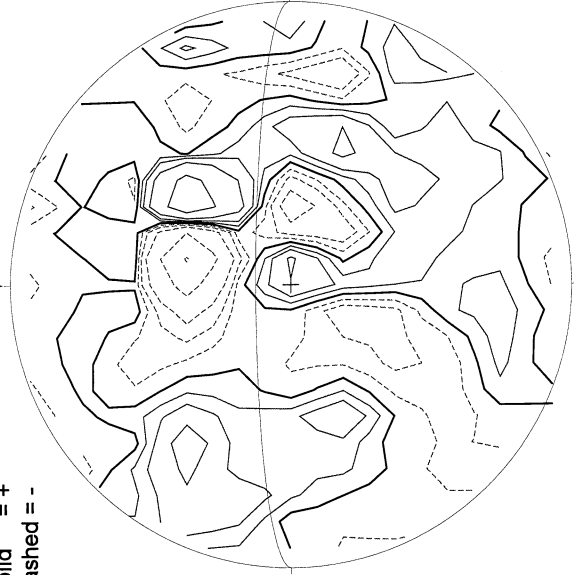
KITT PEAK MAGNETOGRAM
868.8 nm

Bright = +
Dark = -



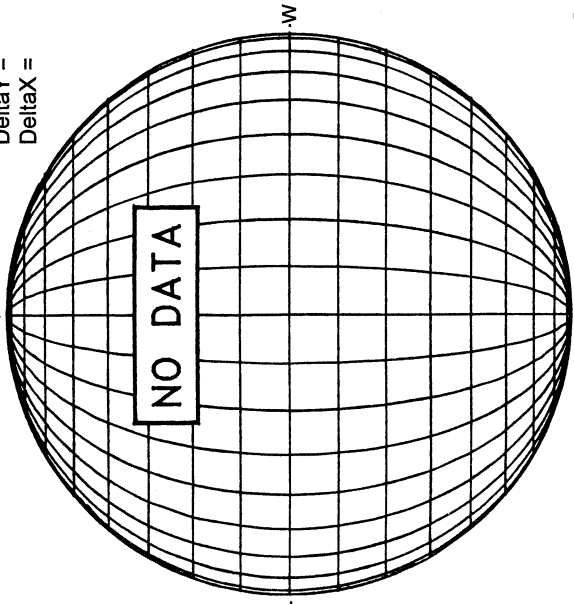
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



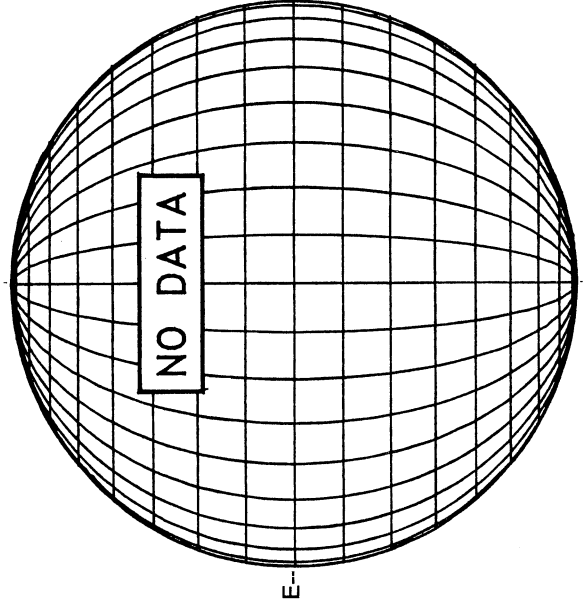
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =



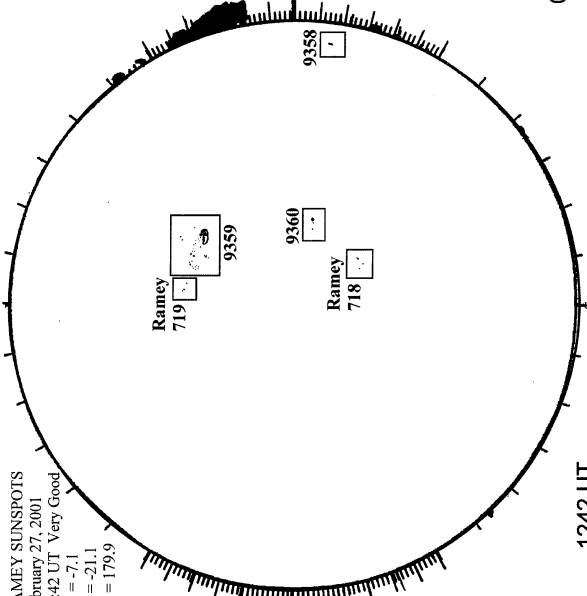
White = +7.5G
Black = -7.5G

MEUDON H-ALPHA

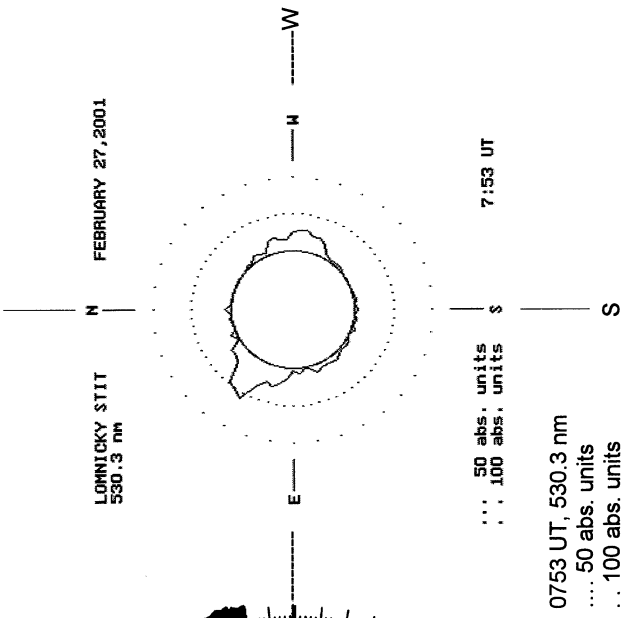


RAMEY SUNSPOT

RAMEY SUNSPOTS
February 27, 2001
12:42 UT, Very Good
Bp = -7.1
Po = -21.1
Lo = 179.9



LOMNICKY PEAK CORONA (1.04 Radii)---



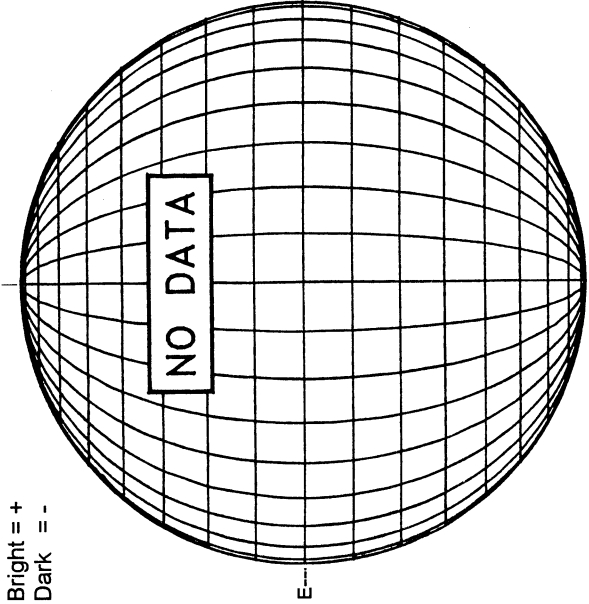
... 50 abs. units
... 100 abs. units

0753 UT, 530.3 nm
... 50 abs. units
... 100 abs. units

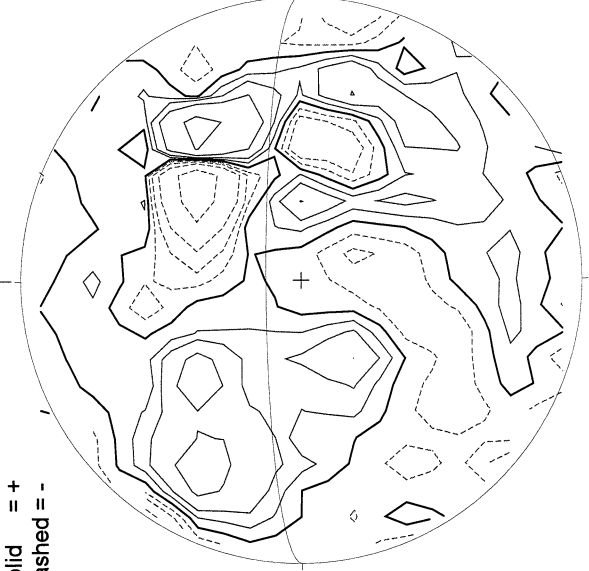
1242 UT
0717 UT LOMN Prom S

FEBRUARY 28, 2001 (P = -21.30, B₀ = -7.21, L₀ = 173.53)

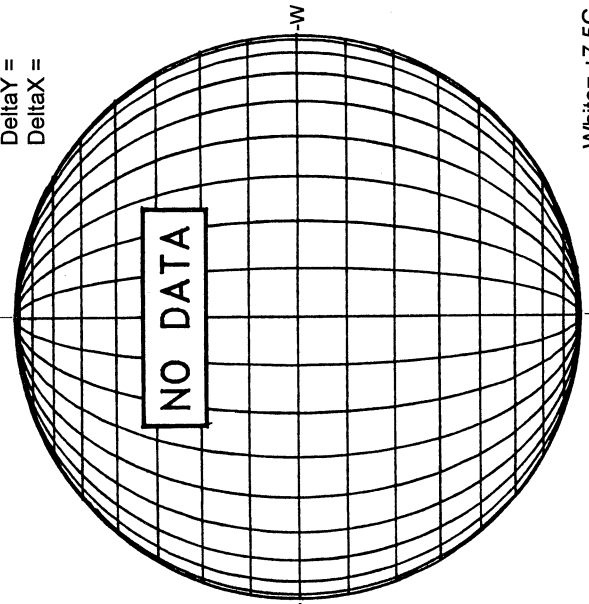
KITT PEAK MAGNETOGRAM
868.8 nm



STANFORD MAGNETOGRAM

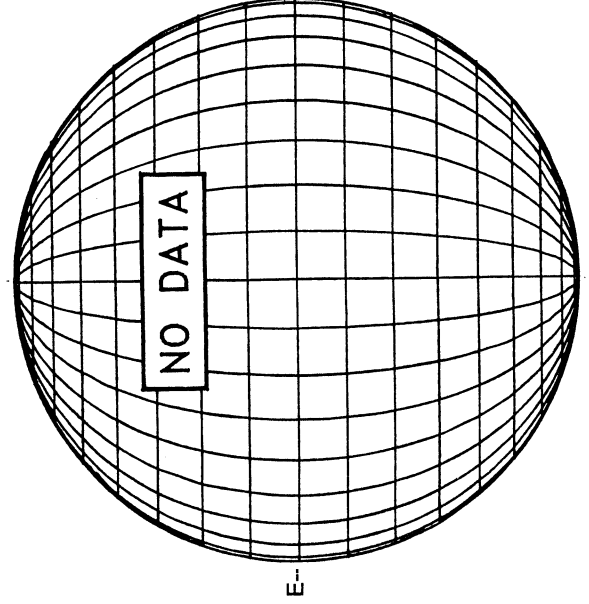


MT. WILSON MAGNETOGRAM

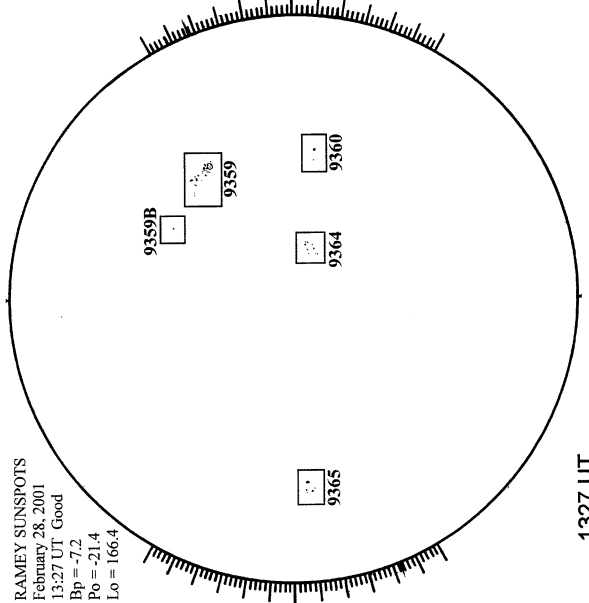


White = +7.5G
Black = -7.5G

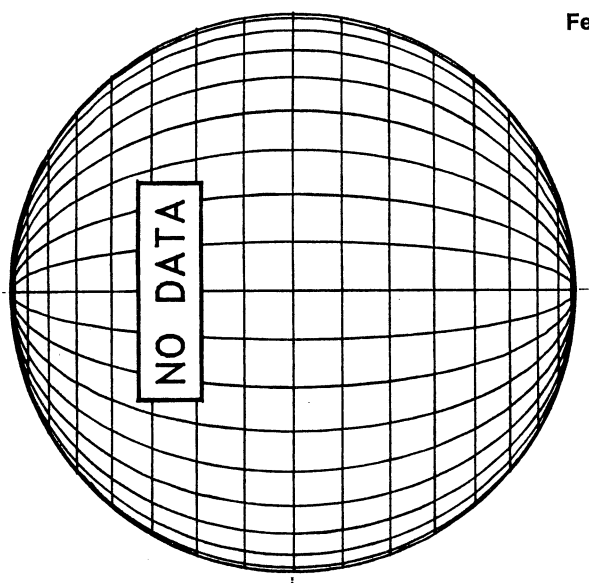
MEUDON H-ALPHA



RAMEY SUNSPOT



LOMNICKY PEAK CORONA (1.04 Radii)---

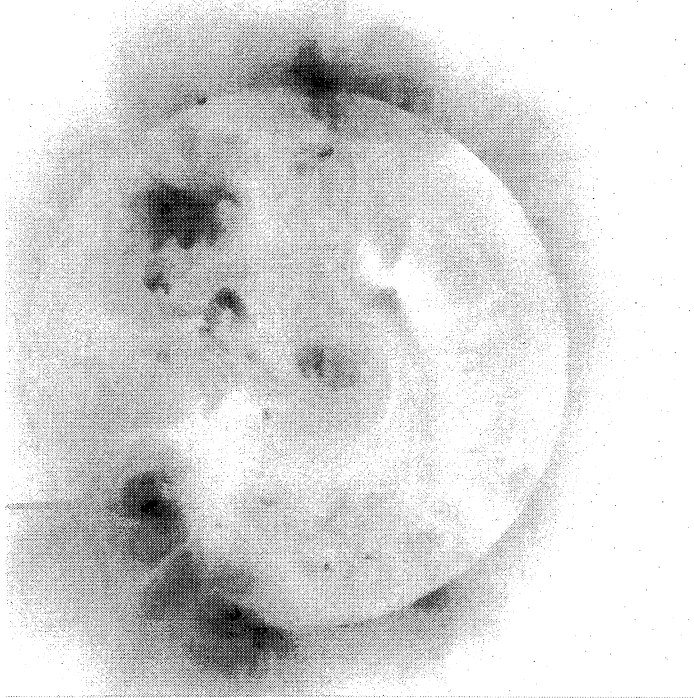
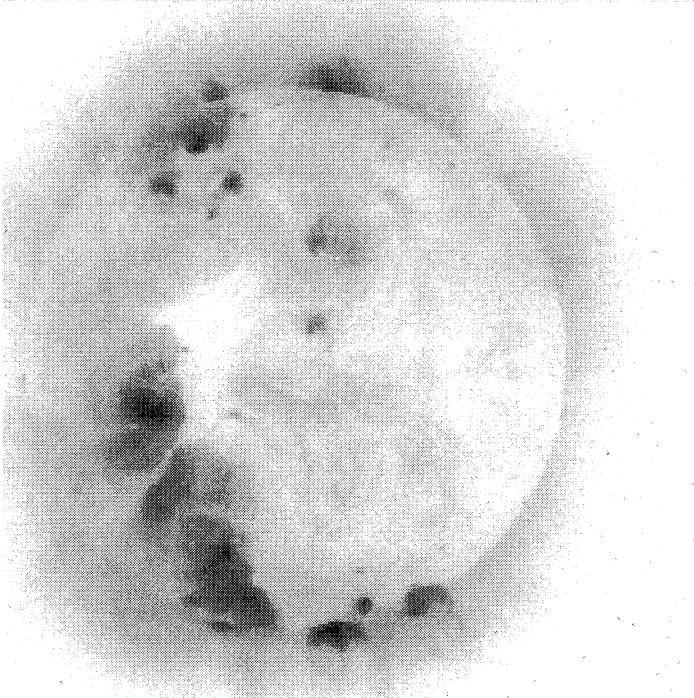
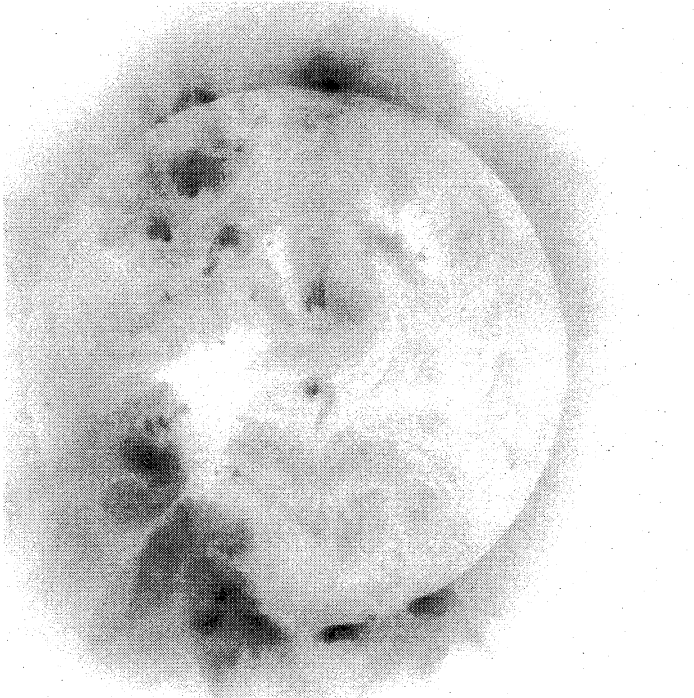


YOHKOH
SOFT X-RAY
TELESCOPE
IMAGES

February
2001

Day 1 11:49:16 UT Day 3 12:21:18 UT

Day 2 11:49:22 UT Day 4 12:26:16 UT

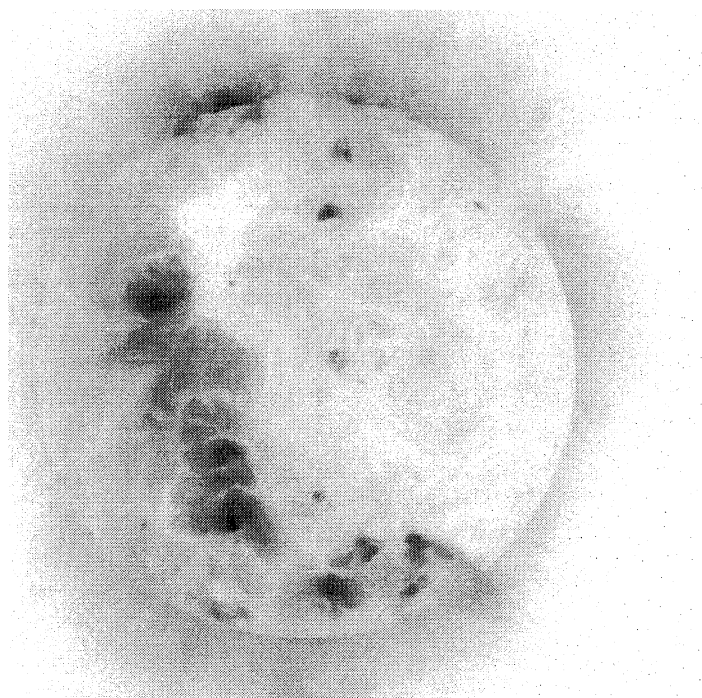
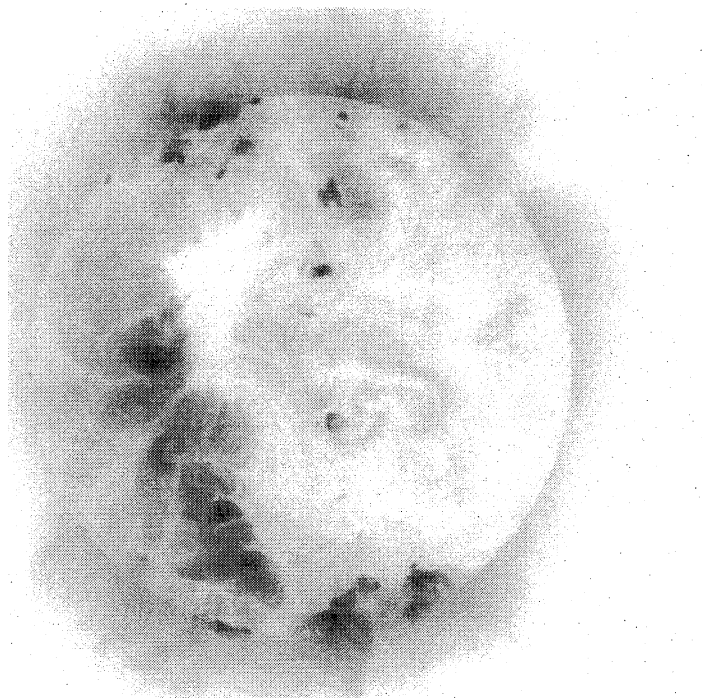
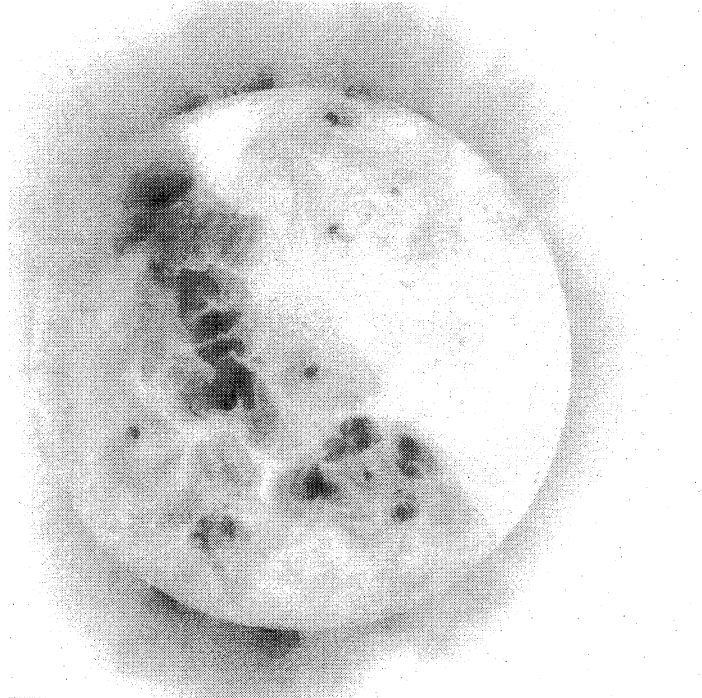
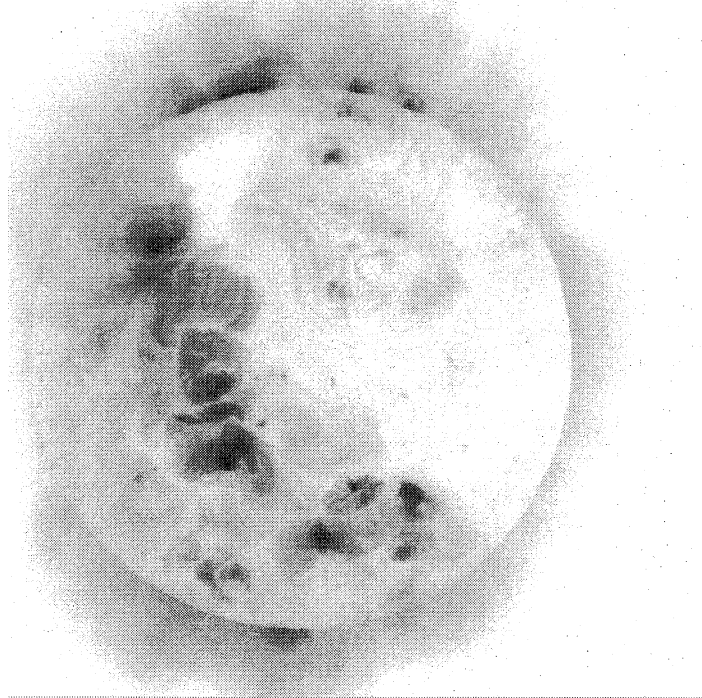


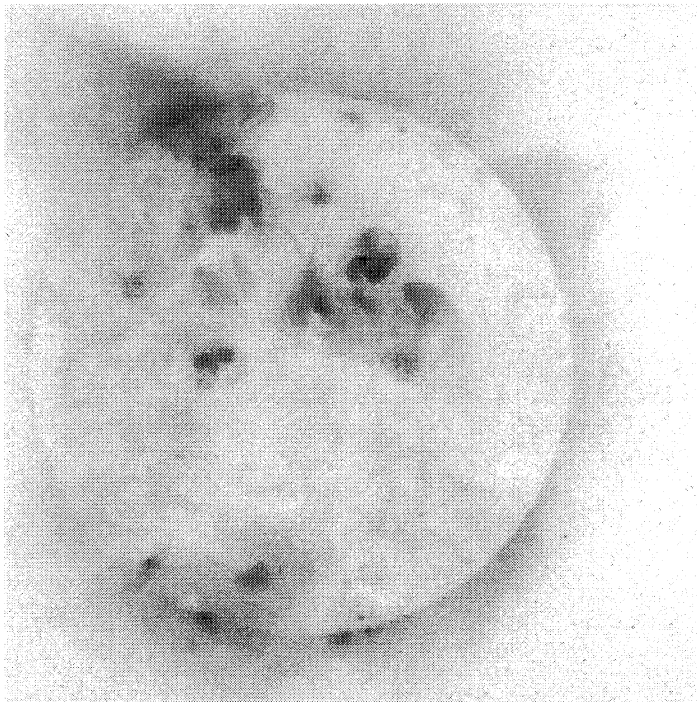
YOHKOH
SOFT X-RAY
TELESCOPE
IMAGES

February
2001

Day 5 11:52:22 UT
Day 7 11:57:45 UT

Day 6 13:23:05 UT
Day 8 11:59:07 UT



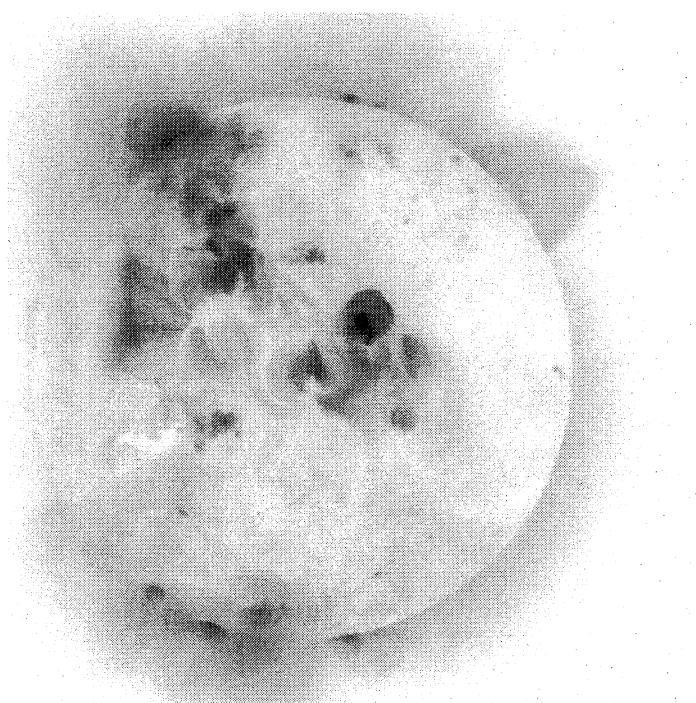
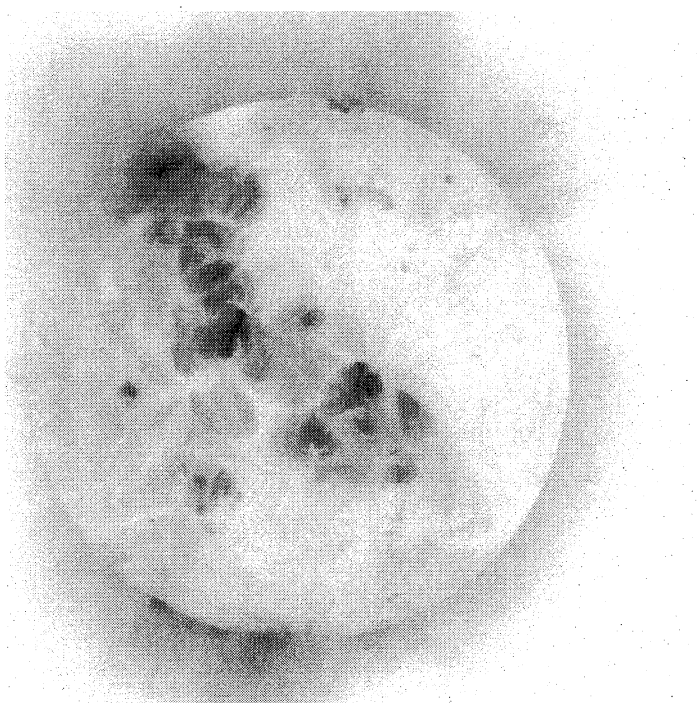


YOHKOH
SOFT X-RAY
TELESCOPE
IMAGES

February
2001

Day 9 Day 11
12:00:25 UT 12:03:18 UT

Day 10 Day 12
12:37:53 UT 12:09:24 UT

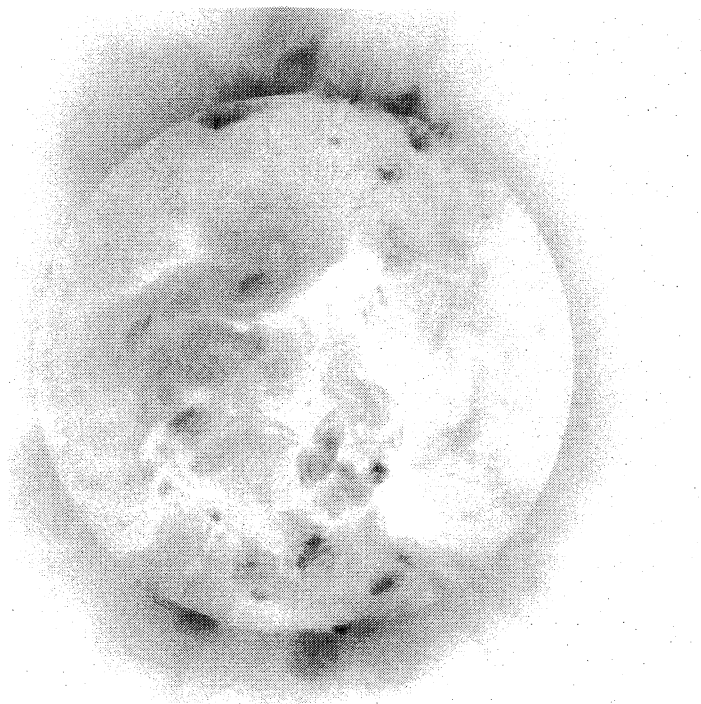
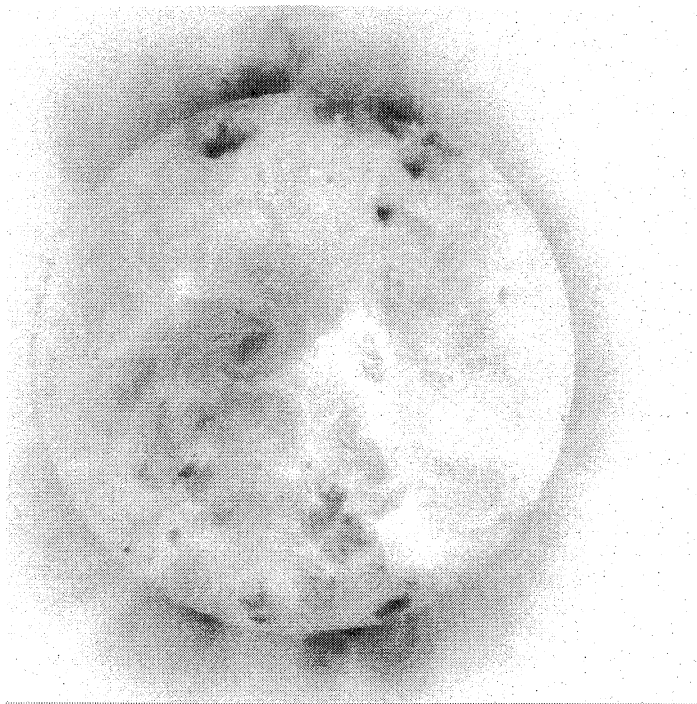
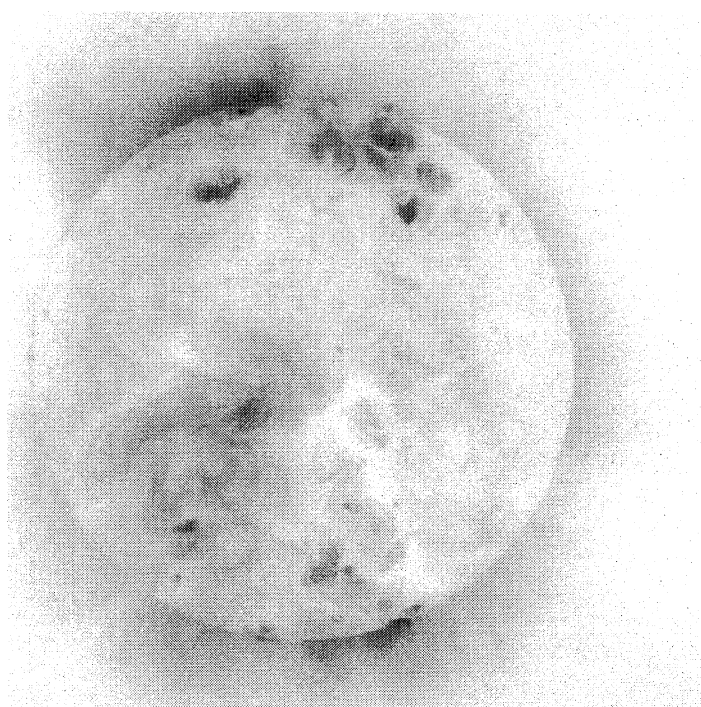


YOHKOH
SOFT X-RAY
TELESCOPE
IMAGES

February
2001

Day 13 11:22:52 UT
Day 15 12:15:40 UT

Day 14 13:04:48 UT
Day 16 11:31:13 UT

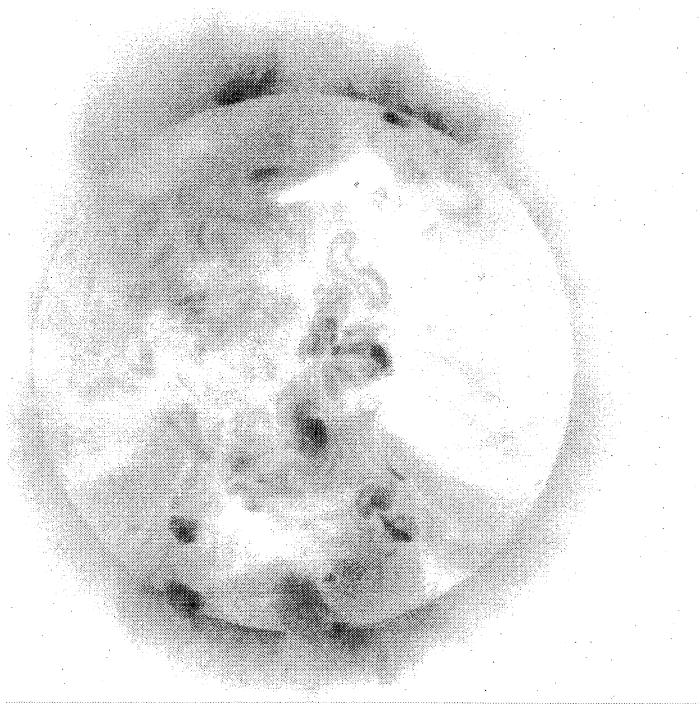
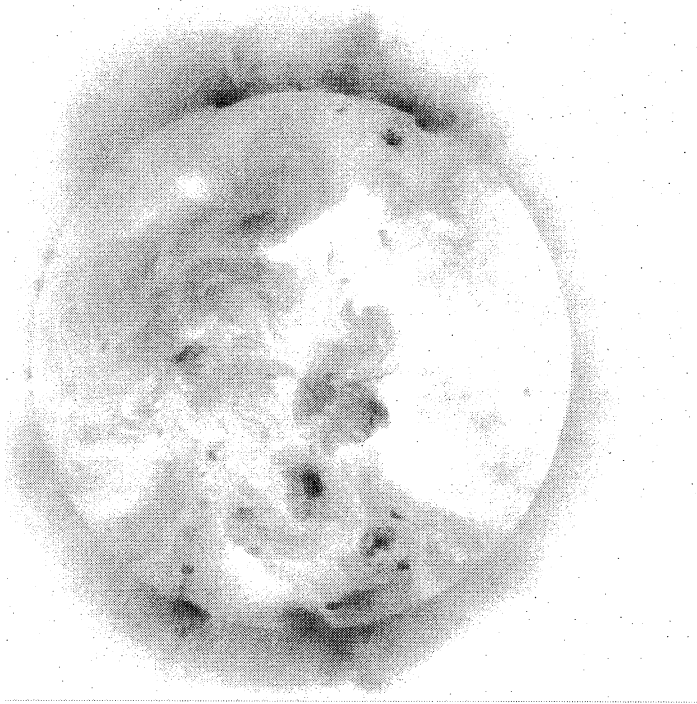
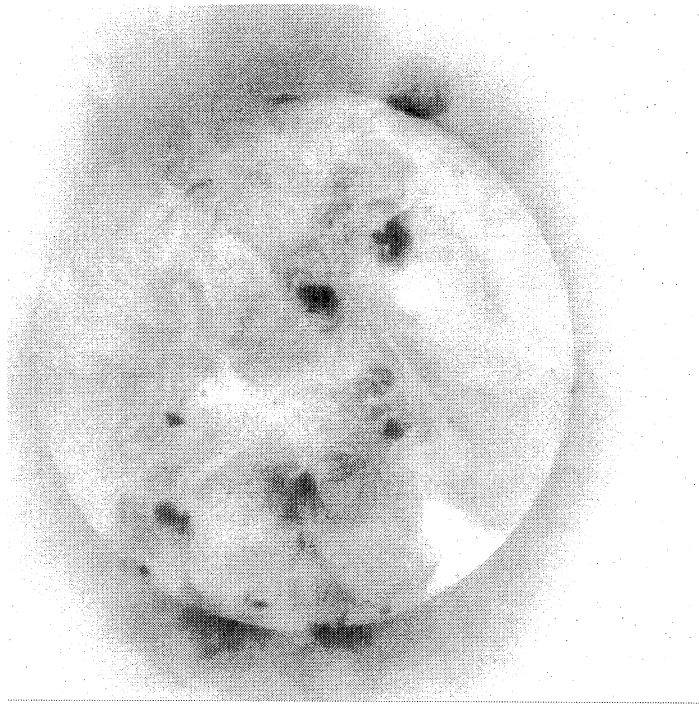
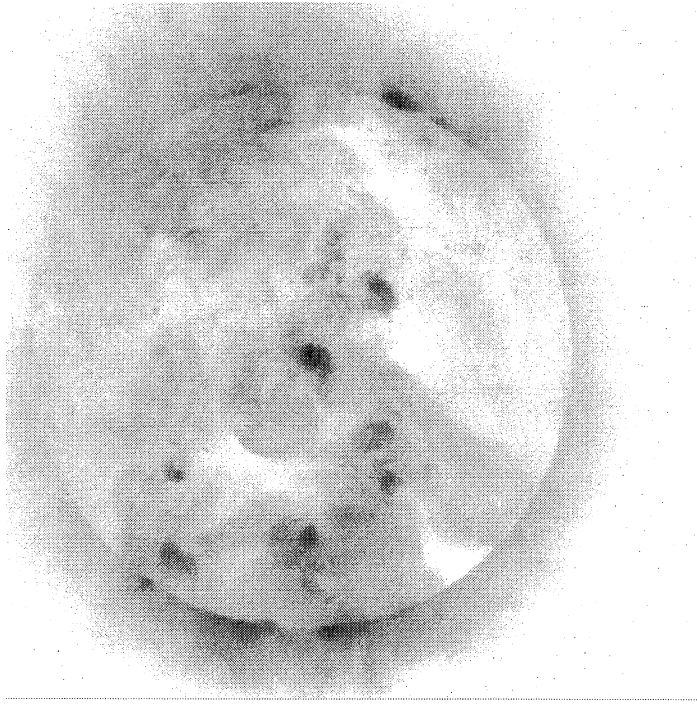


YOHKOH
SOFT X-RAY
TELESCOPE
IMAGES

February
2001

Day 17 11:35:25 UT Day 19 11:43:07 UT

Day 18 10:05:17 UT Day 20 11:45:47 UT

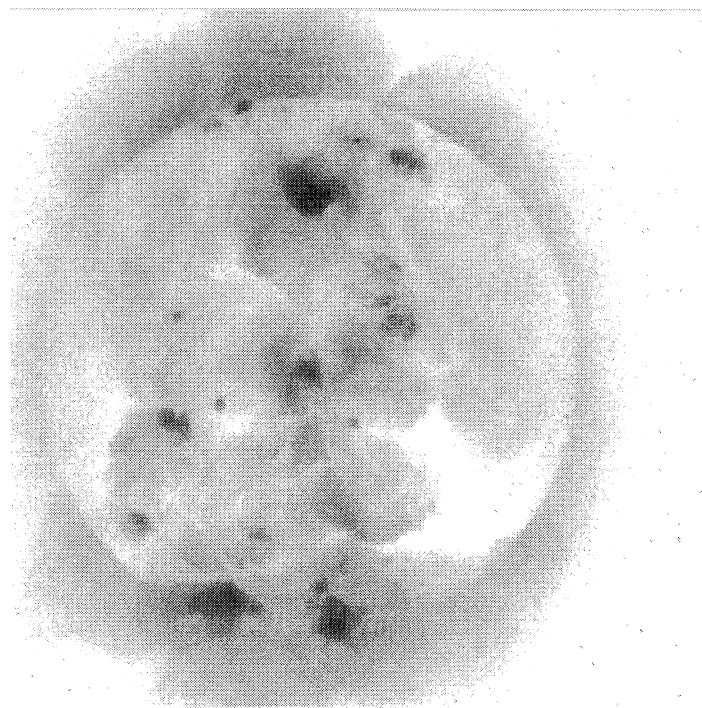
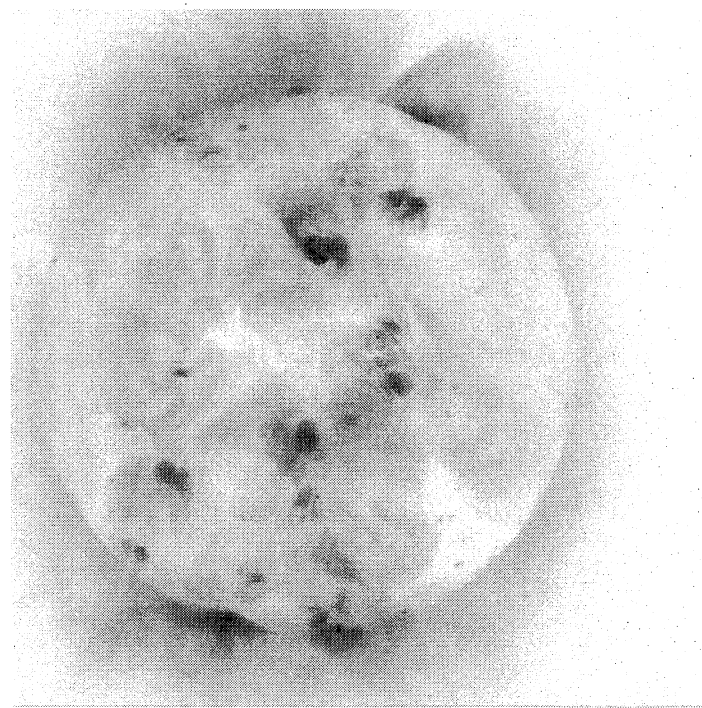
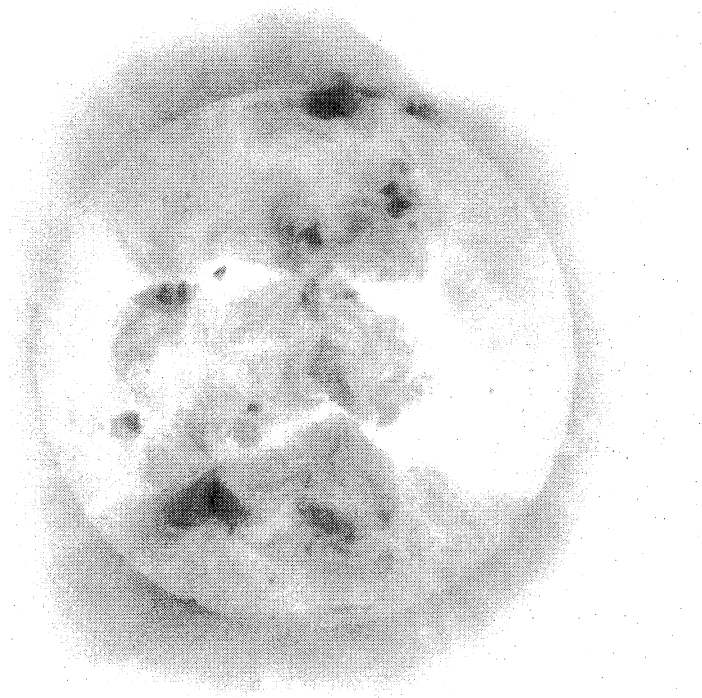
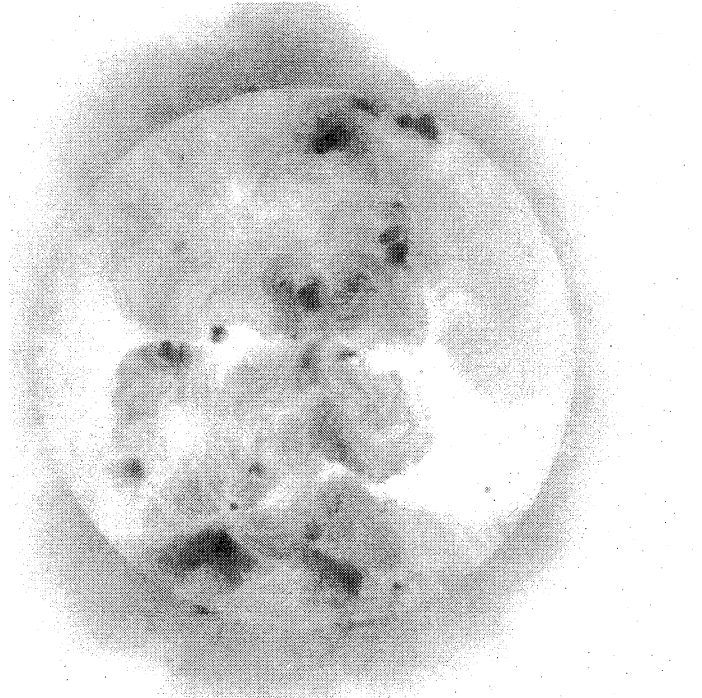


YOHKOH
SOFT X-RAY
TELESCOPE
IMAGES

February
2001

Day 21 09:45:24 UT Day 23 11:45:06 UT

Day 22 11:50:44 UT Day 24 11:42:30 UT

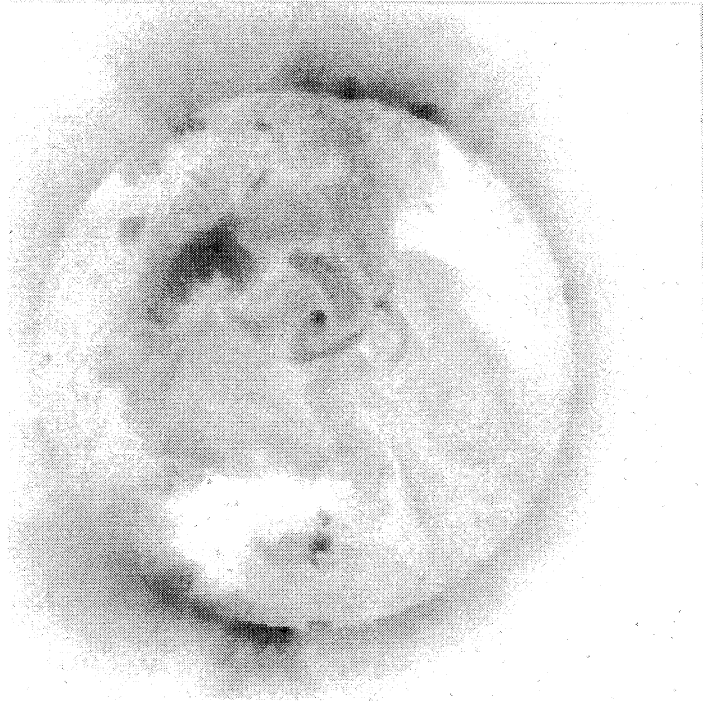
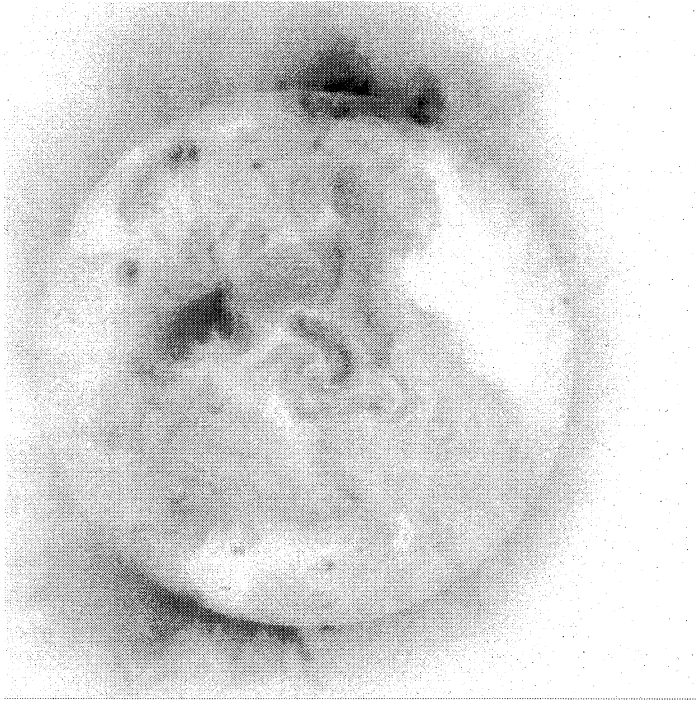
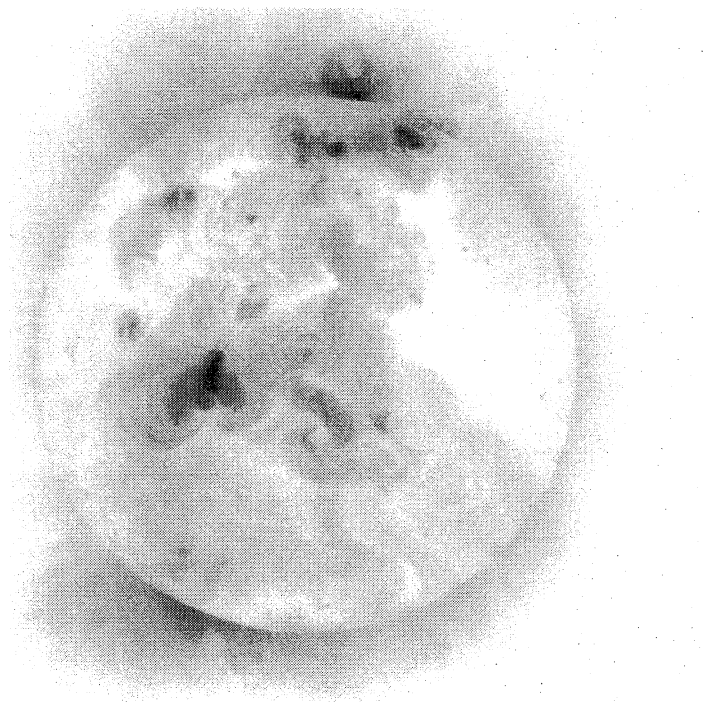
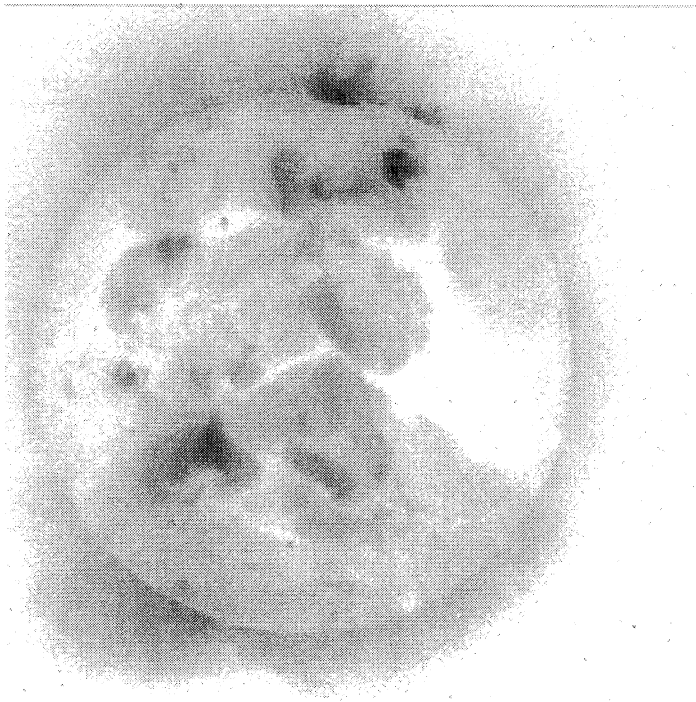


YOHKOH
SOFT X-RAY
TELESCOPE
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February
2001

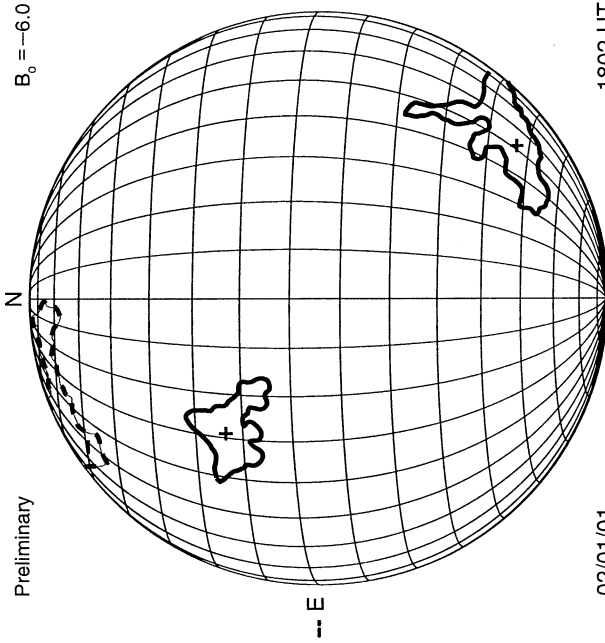
Day 25 Day 27
11:56:04 UT 11:12:41 UT

Day 26 Day 28
11:59:59 UT 11:57:23 UT

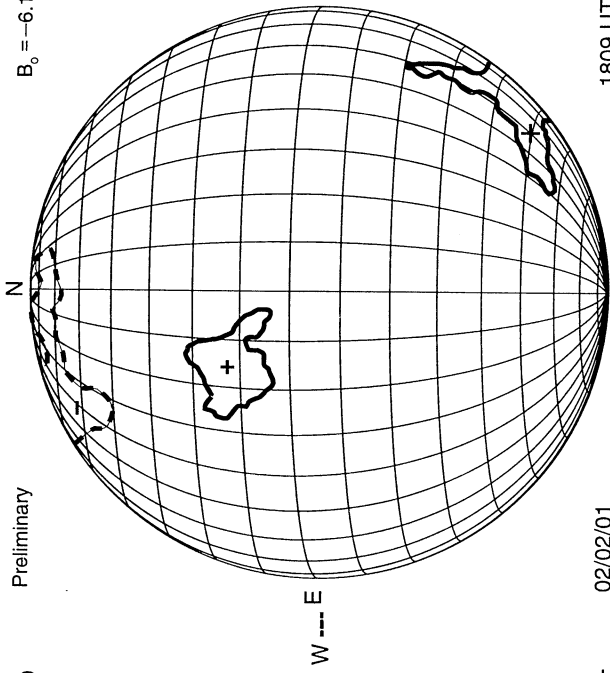


KITT PEAK CORONAL HOLE MAPS HE I 1083 nm February 2001

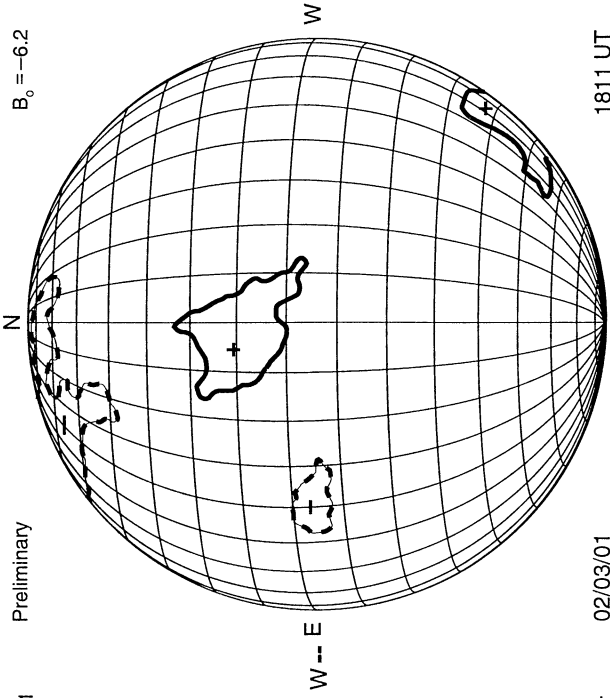
NSO/KP CORONAL HOLE MAP: HE I 1083 nm



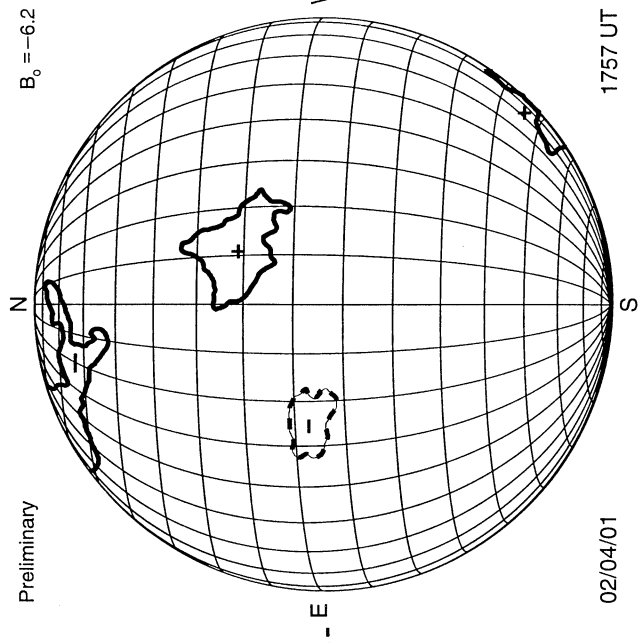
NSO/KP CORONAL HOLE MAP: HE I 1083 nm



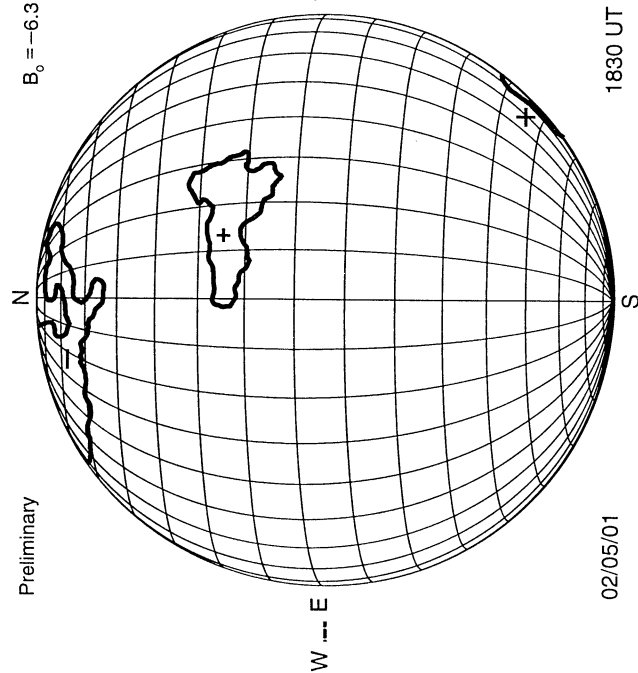
NSO/KP CORONAL HOLE MAP: HE I 1083 nm



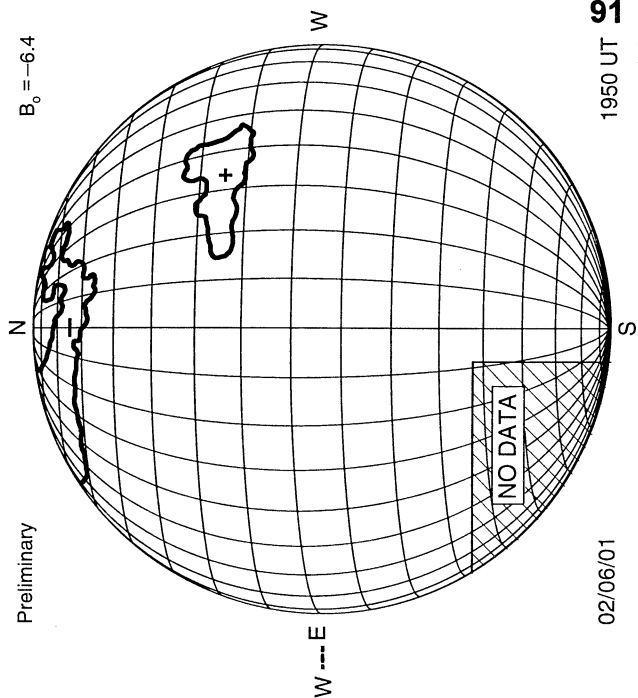
NSO/KP CORONAL HOLE MAP: HE I 1083 nm



NSO/KP CORONAL HOLE MAP: HE I 1083 nm

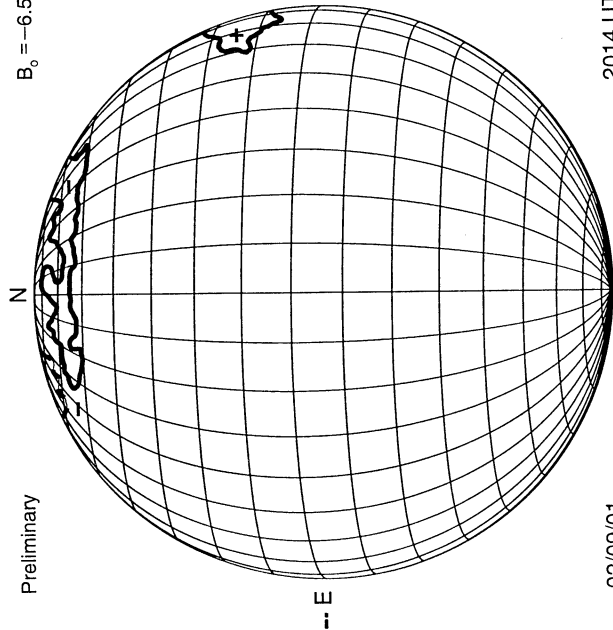


NSO/KP CORONAL HOLE MAP: HE I 1083 nm

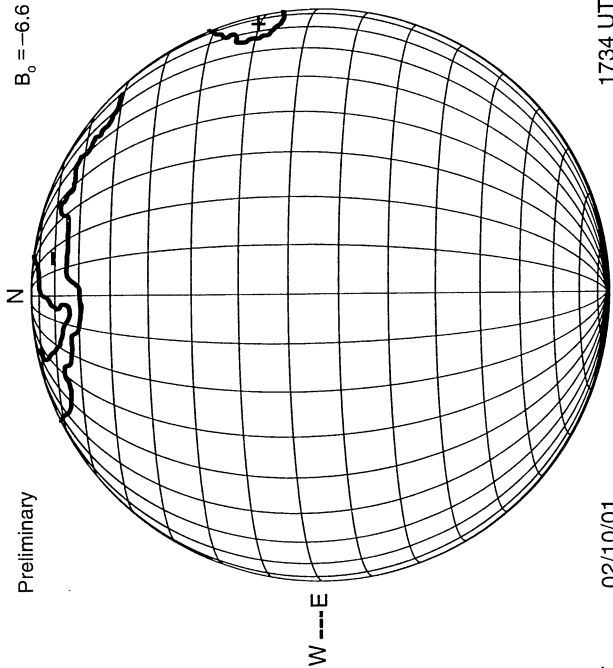


KITT PEAK CORONAL HOLE MAPS HE I 1083 nm February 2001

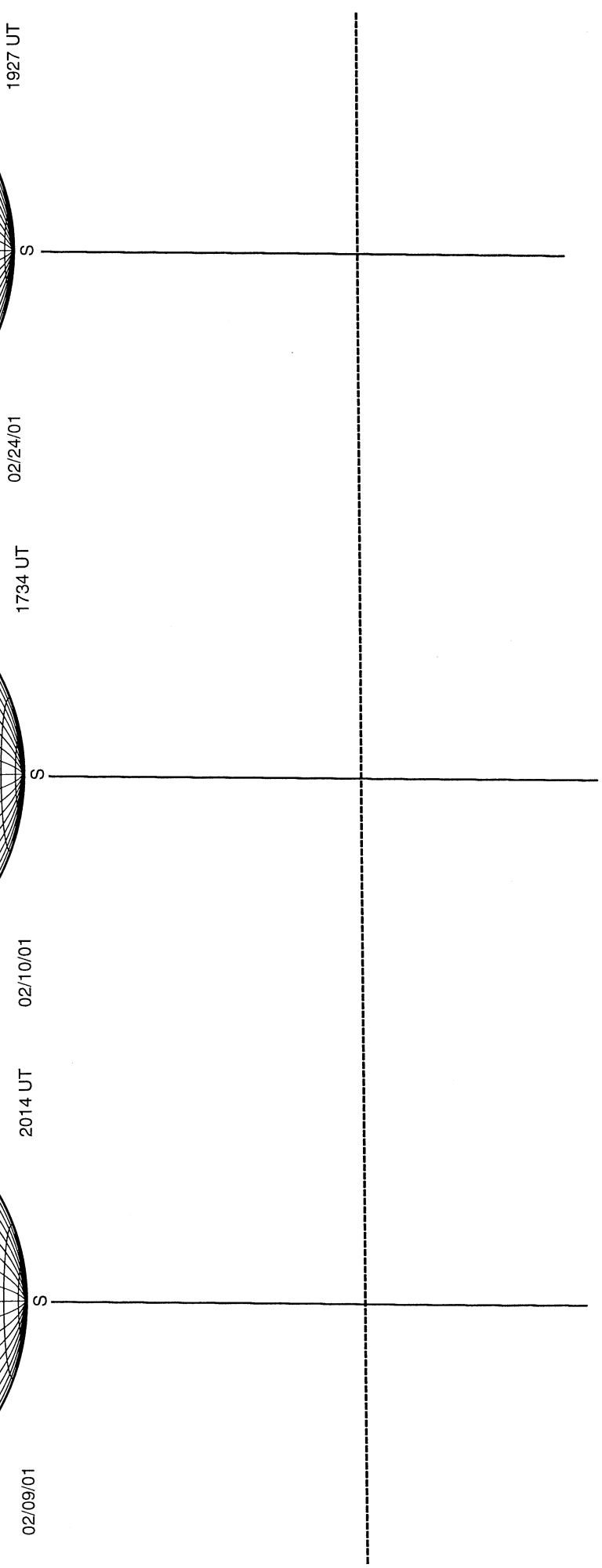
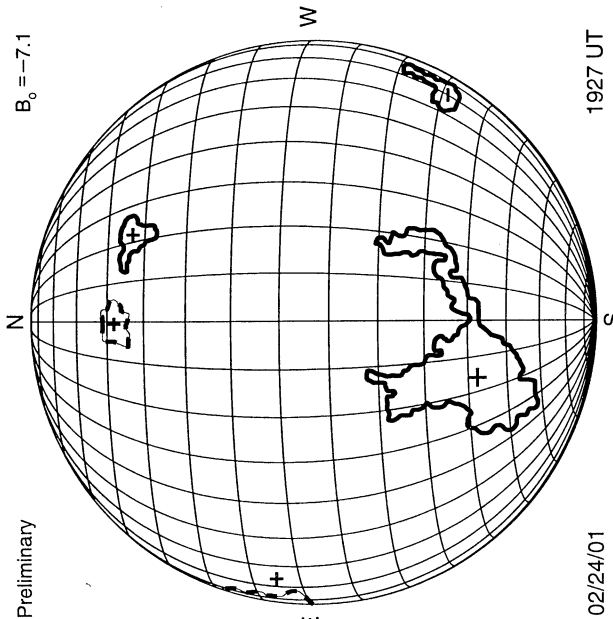
NSO/KP CORONAL HOLE MAP: HE I 1083 nm



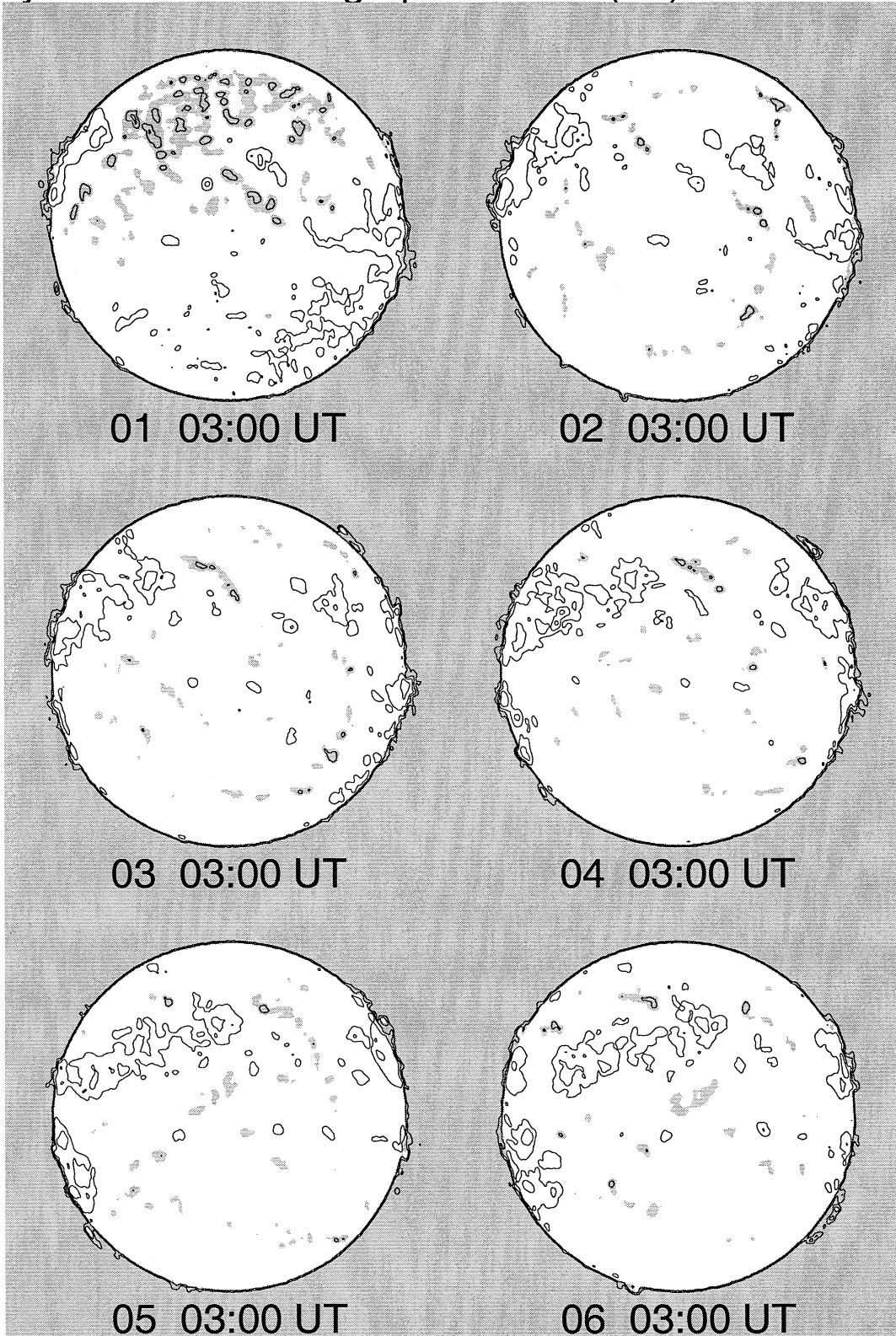
NSO/KP CORONAL HOLE MAP: HE I 1083 nm



NSO/KP CORONAL HOLE MAP: HE I 1083 nm

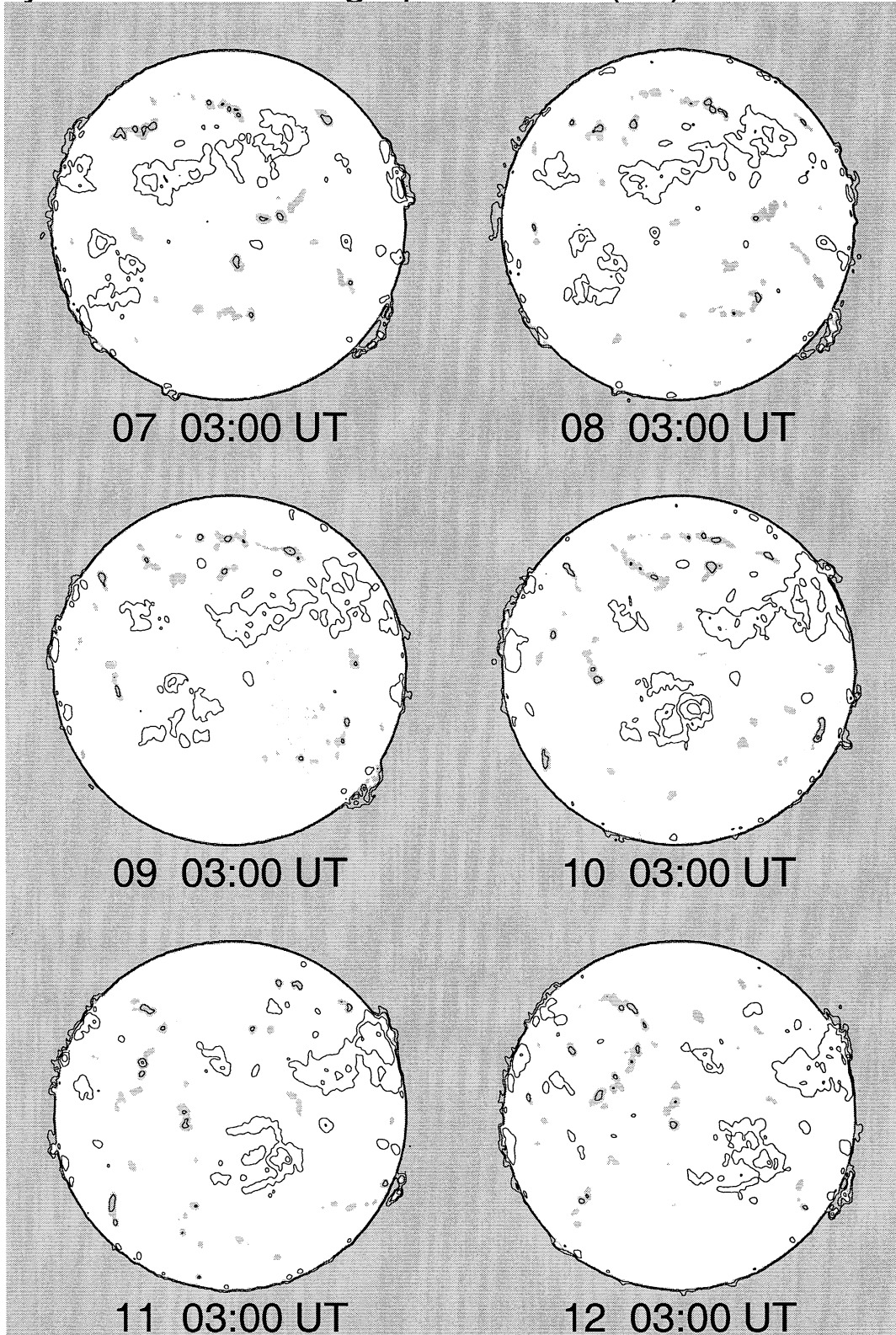


Nobeyama Radio Heliograph 17 GHz (Tb) 2001 February



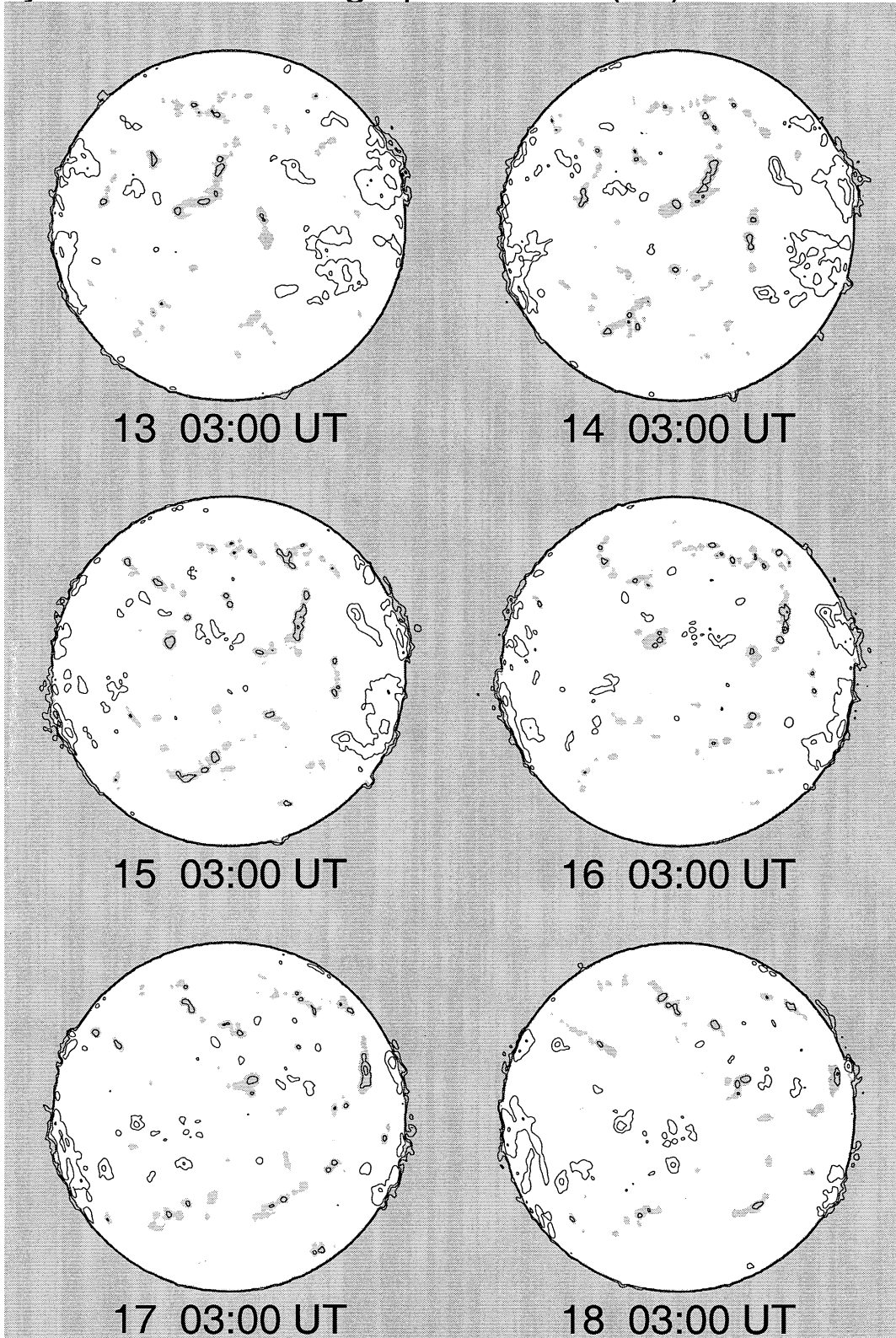
Contour Levels Tb=[5,8,12,20,50,100] x 10³ K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2001 February



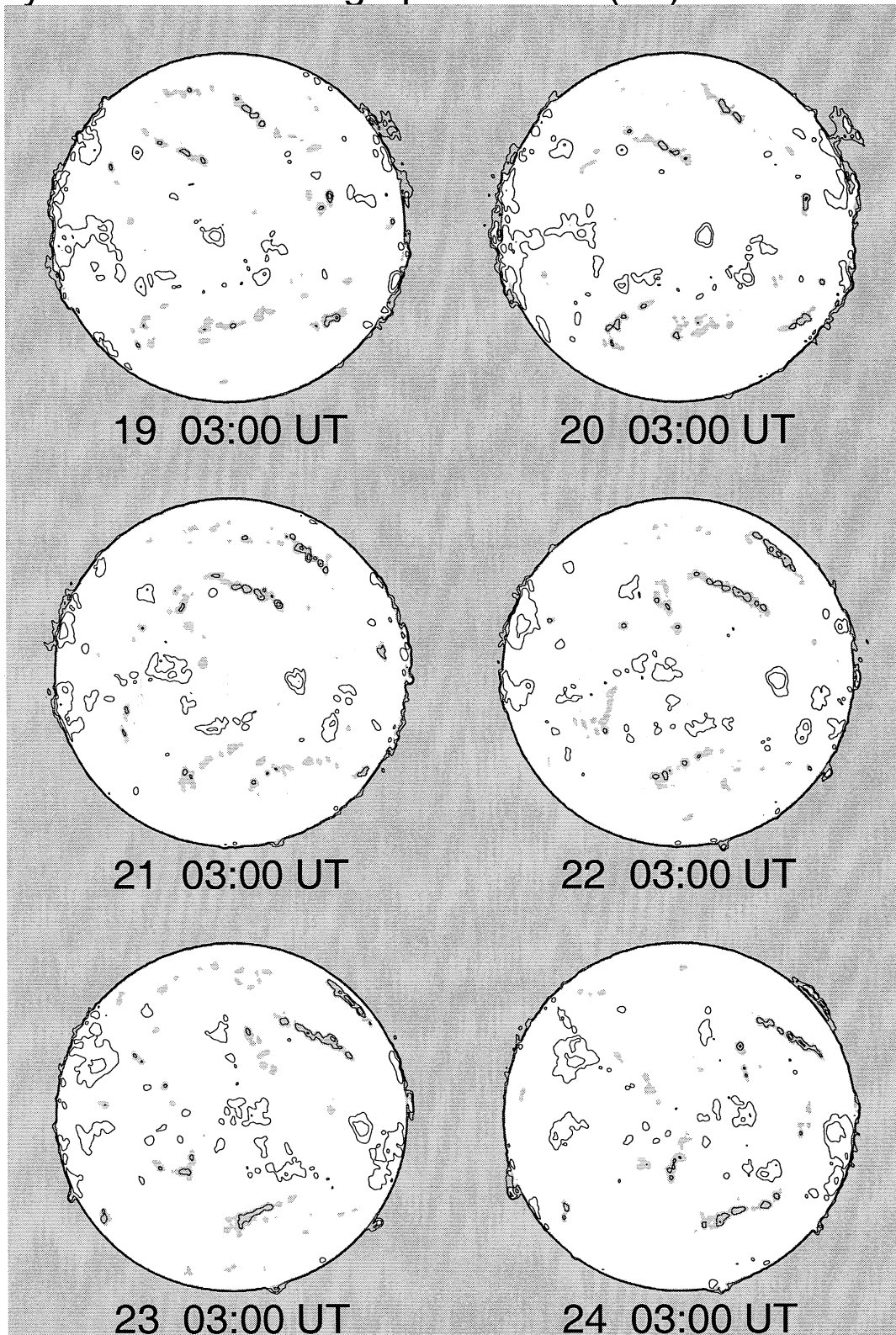
Contour Levels $T_b = [5, 8, 12, 20, 50, 100] \times 10^3$ K
Grey level $T_b \leq 9,500$ K

Nobeyama Radio Heliograph 17 GHz (Tb) 2001 February



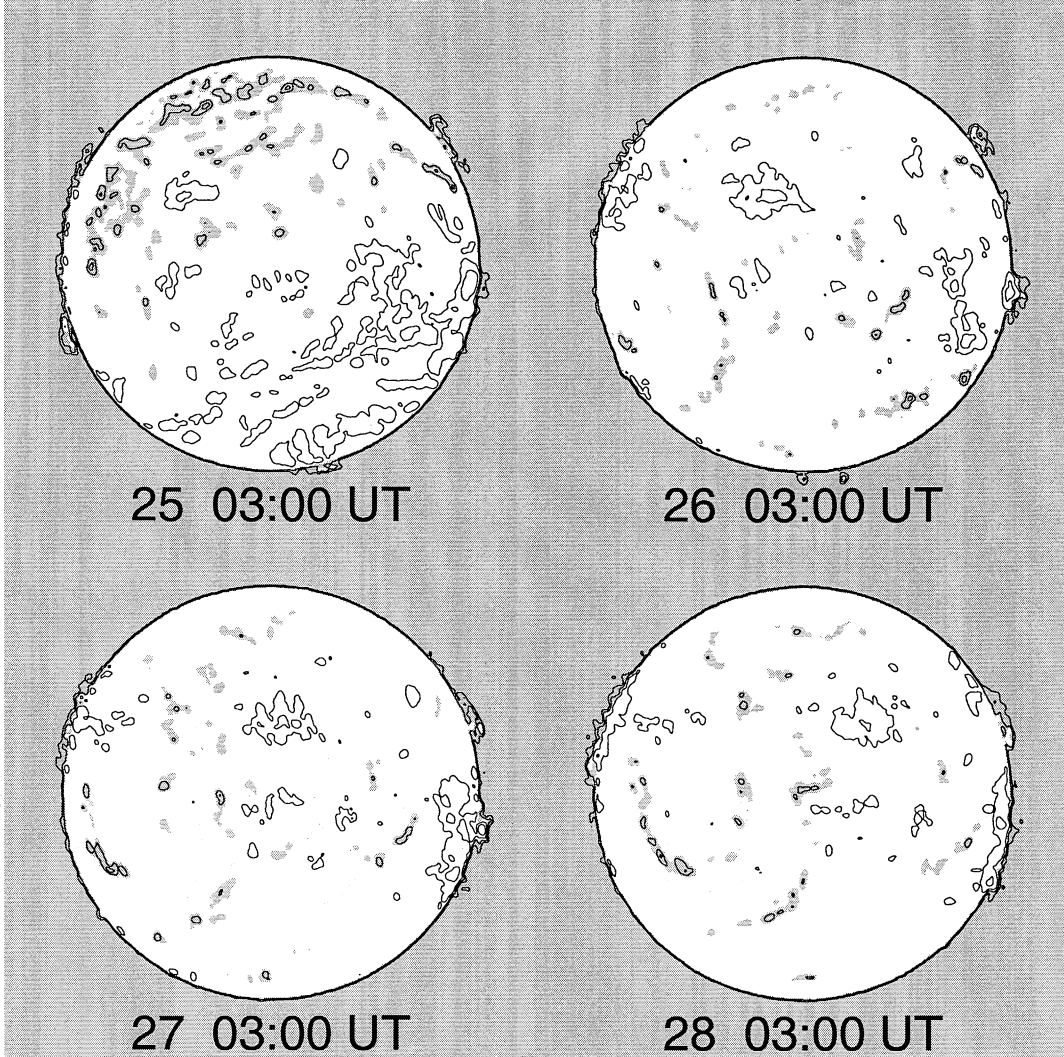
Contour Levels $T_b = [5, 8, 12, 20, 50, 100] \times 10^3$ K
Grey level $T_b \leq 9,500$ K

Nobeyama Radio Heliograph 17 GHz (Tb) 2001 February



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

Nobeyama Radio Heliograph 17 GHz (Tb) 2001 February



Contour Levels $T_b = [5, 8, 12, 20, 50, 100] \times 10^3 \text{ K}$
Grey level $T_b \leq 9,500 \text{ K}$

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

FEBRUARY 2001

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
9333		LEAR	02 01 0125	N25	E00	02 1.0		B	BXO	10	2	2	4
9333		VORO	02 01 0352	N25	W01	02 1.1			AXX	10	1		2
9333		TACH	02 01 0511	N25	W01	02 1.1			AXX	40	1	1	3
9333		RAMY	02 01 1209	N23	W03	02 1.3		B	DSO	20	6	4	3
9333		HOLL	02 01 1515	N23	W06	02 1.2		B	CSO	30	8	6	2
9333	30295	MWIL	02 01 2100	N24	W08	02 1.2	4	(B)					
9333		VORO	02 02 0044	N25	W11	02 1.2			CRO	35	2	5	2
9333		LEAR	02 02 0055	N25	W12	02 1.1		B	DAO	40	6	6	3
9333		TACH	02 02 0705	N25	W13	02 1.3			BRO	51	3	4	4
9333		RAMY	02 02 1240	N25	W17	02 1.2		B	DSO	20	4	6	3
9333		HOLL	02 02 1450	N25	W19	02 1.1		B	CAO	40	6	6	3
9333	30295	MWIL	02 02 1600	N25	W19	02 1.2	5	(B)					
9333		VORO	02 03 0043	N25	W26	02 1.0			HRX	35	1		2
9333		LEAR	02 03 0122	N27	W27	01 31.9		B	DAO	50	2	3	2
9333		SVTO	02 03 1130	N26	W32	02 1.0		B	CAO	30	3	3	3
9333		RAMY	02 03 1245	N26	W33	02 1.0		A	HSX	20	1	1	3
9333	30295	MWIL	02 03 1600	N25	W33	02 1.1	5	(BP)					
9333		LEAR	02 04 0007	N24	W36	02 1.2		B	CSO	40	7	6	5
9333		VORO	02 04 0044	N26	W40	01 31.9			AXX	34	2		2
9333		SVTO	02 04 0815	N25	W41	02 1.2		B	CSO	20	3	7	3
9333		TACH	02 04 0848	N25	W40	02 1.3			BRO	6	2	6	2
9333		KAND	02 04 1110	N24	W44	02 1.1			BXO	2	2	7	2
9333		RAMY	02 04 1226	N26	W45	02 1.0		B	CSO	20	3	7	4
9333		HOLL	02 04 1530	N25	W48	01 31.9		A	HAX	30	1	1	2
9333	30295	MWIL	02 04 1600	N25	W46	02 1.1	4	(BP)					
9333		LEAR	02 05 0025	N26	W52	02 1.0		B	CSO	20	2	2	3
9333		SVTO	02 05 0737	N25	W57	01 31.9		A	AXX		1		3
9333		KAND	02 05 0835	N26	W59	01 31.8			AX		1		4
9333		RAMY	02 05 1319	N28	W59	01 31.9		A	AXX	10	1	1	3
9333	30295	MWIL	02 05 1600	N26	W60	02 1.0	4	(AP)					
9332		RAMY	01 30 1320	N08	E29	02 1.7		B	BXO		3	2	4
9332	30293	MWIL	01 30 1545	N08	E28	02 1.7	4	(BF)					
9332		HOLL	01 30 1630	N09	E27	02 1.7		B	CSO	20	3	3	2
9332		KAND	01 31 1125	N08	E16	02 1.7			CSO		4	3	1
9332		RAMY	01 31 1300	N09	E16	02 1.7		B	CRO	20	7	3	3
9332		HOLL	01 31 1516	N08	E14	02 1.7		B	BXO	20	6	3	3
9332	30293	MWIL	01 31 1545	N08	E14	02 1.7	4	(B)					
9332		LEAR	02 01 0125	N09	E09	02 1.7		B	DRO	40	11	4	4
9332		VORO	02 01 0352	N08	E07	02 1.7			HRX	39	2	2	2
9332		TACH	02 01 0511	N11	E07	02 1.7			BRO	77	4	4	3
9332		RAMY	02 01 1209	N08	E03	02 1.7		B	DSO	40	5	4	3
9332		HOLL	02 01 1515	N08	W01	02 1.6		B	DSO	60	5	5	2
9332	30293	MWIL	02 01 2100	N08	W04	02 1.6	5	(B)					
9332		VORO	02 02 0044	N08	W06	02 1.6			BXO	17	3	4	2
9332		LEAR	02 02 0055	N08	W06	02 1.6		B	DAO	30	6	5	3
9332		TACH	02 02 0705	N09	W08	02 1.7			BRO	12	4	4	4
9332		RAMY	02 02 1240	N09	W13	02 1.5		B	DSO	40	5	6	3
9332		HOLL	02 02 1450	N08	W14	02 1.6		B	CAO	30	5	6	3
9332	30293	MWIL	02 02 1600	N08	W14	02 1.6	4	(B)					
9332		VORO	02 03 0043	N08	W19	02 1.6			BXI	34	3	4	2
9332		LEAR	02 03 0122	N08	W20	02 1.5		B	DAO	20	3	5	2
9332		SVTO	02 03 1130	N09	W26	02 1.5		B	BXO	10	5	5	3
9332		RAMY	02 03 1245	N09	W26	02 1.6		B	CSO	20	3	5	3
9332	30293	MWIL	02 03 1600	N09	W27	02 1.6	3	(B)					
9331		RAMY	01 30 1320	N13	E32	02 2.0		B	BXO	10	4	2	4
9331	30292	MWIL	01 30 1545	N13	E32	02 2.1	3	(B)					
9331		HOLL	01 30 1630	N12	E31	02 2.0		B	DAO	70	2	3	2
9331		KAND	01 31 1125	N12	E20	02 2.0			BXO		4	5	1
9331		RAMY	01 31 1300	N13	E19	02 2.0		B	BXO	10	3	1	3
9331		HOLL	01 31 1516	N13	E17	02 1.9		A	AXX	10	3	2	3
9331	30292	MWIL	01 31 1545	N13	E17	02 1.9	4	(AP)					
9331		LEAR	02 01 0125	N13	E12	02 2.0		B	BXO	10	3	1	4
9331		RAMY	02 01 1209	N13	E06	02 1.9		A	AXX	10	2	2	3
9329		VORO	01 28 0415	S09	E72	02 2.6			AXX	15	1		3
9329		LEAR	01 29 0045	S11	E62	02 2.7		B	DSO	20	6	6	3
9329		KAND	01 29 0740	S10	E60	02 2.8			BXO		5	5	3

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

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Feb 01

FEBRUARY 2001

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual	
			Mo	Day												(UT)
9329	30290	MWIL	01	29	1615	S10	E54	02	2.7	4	(BP)					
9329		HOLL	01	29	1758	S10	E52	02	2.6		B	DSO	30	6	6	3
9329		VORO	01	29	2341	S11	E47	02	2.5			AXX	21	1		3
9329		LEAR	01	30	0030	S11	E45	02	2.4		B	CSO	30	2	2	2
9329		KAND	01	30	0740	S10	E45	02	2.7			BXO		2	7	4
9329		RAMY	01	30	1320	S08	E42	02	2.7		B	CSO	20	6	4	4
9329	30290	MWIL	01	30	1545	S12	E37	02	2.4	4	(BP)					
9329		HOLL	01	30	1630	S12	E38	02	2.5		B	CSO	20	3	5	2
9329		RAMY	01	31	1300	S11	E29	02	2.7		B	CSO	20	7	7	3
9329		HOLL	01	31	1516	S10	E26	02	2.6		B	BXO	10	3	7	3
9329	30290	MWIL	01	31	1545	S11	E25	02	2.5	4	(B)					
9329		LEAR	02	01	0125	S11	E18	02	2.4		B	BXO	10	2	1	4
9329		RAMY	02	02	1240	S10	W03	02	2.3		A	AXX	10	2	2	3
9329		HOLL	02	02	1450	S10	E02	02	2.8		A	AXX	10	2	2	3
9329	30290	MWIL	02	02	1600	S10	E01	02	2.7	3	(AF)					
9329		SVTO	02	03	1130	S09	W08	02	2.9		B	BXO	10	3	3	3
9336		LEAR	02	03	0122	S10	E11	02	3.9		A	AXX	10	2	1	2
9336		SVTO	02	03	1130	S10	E05	02	3.8		A	AXX		1		3
9336		RAMY	02	03	1245	S10	E05	02	3.9		A	AXX		1		3
9336	30299	MWIL	02	03	1600	S10	E03	02	3.9	4	(AP)					
9336		RAMY	02	04	1226	S10	W11	02	3.7		B	BXO		3	1	4
9336	30299	MWIL	02	04	1600	S10	W09	02	4.0	3	(BP)					
9336		SVTO	02	05	0737	S11	W18	02	4.0		B	BXO	10	5	4	3
9336		KAND	02	05	0835	S10	W18	02	4.0			BXO		10	4	4
9336		RAMY	02	05	1319	S09	W22	02	3.9		B	BXO	10	5	3	3
9336		HOLL	02	05	1524	S08	W23	02	3.9		B	CAO	20	3	3	3
9336	30299	MWIL	02	05	1600	S09	W23	02	3.9	4	(BP)					
9336		LEAR	02	06	0310	S09	W29	02	3.9		B	BXO	20	3	3	3
9336		SVTO	02	06	0853	S09	W33	02	3.9		B	BXO	20	6	4	3
9336		RAMY	02	06	1239	S08	W35	02	3.9		B	BXO	10	4	3	4
9336	30299	MWIL	02	06	1530	S10	W36	02	3.9	4	(BP)					
9330		VORO	01	29	2341	N25	E82	02	5.3			HRX	84	1		3
9330		LEAR	01	30	0030	N23	E78	02	5.0		A	HSX	60	1	1	2
9330		KAND	01	30	0740	N25	E78	02	5.4			CSO		2	4	4
9330		RAMY	01	30	1320	N25	E72	02	5.1		A	HSX	100	1	2	4
9330	30294	MWIL	01	30	1545	N24	E69	02	5.0	4	(AP)					
9330		HOLL	01	30	1630	N24	E70	02	5.1		A	HAX	120	2	2	2
9330		KAND	01	31	1125	N26	E63	02	5.4			ESO		12	13	1
9330		RAMY	01	31	1300	N26	E62	02	5.3		B	ESO	220	12	12	3
9330		HOLL	01	31	1516	N26	E63	02	5.5		B	ESO	240	9	13	3
9330	30294	MWIL	01	31	1545	N26	E59	02	5.2	5	(BP)					
9330		LEAR	02	01	0125	N25	E55	02	5.3		B	EAO	220	14	11	4
9330		VORO	02	01	0352	N25	E54	02	5.3			DAI	181	3	7	2
9330		TACH	02	01	0511	N26	E53	02	5.3			DAI	123	5	8	3
9330		RAMY	02	01	1209	N26	E52	02	5.5		B	ESO	240	10	14	3
9330		HOLL	02	01	1515	N25	E47	02	5.3		B	EAO	190	11	11	2
9330	30294	MWIL	02	01	2100	N25	E45	02	5.4	5	(B)					
9330		VORO	02	02	0044	N24	E42	02	5.3			DAI	193	5	6	2
9330		LEAR	02	02	0055	N26	E42	02	5.3		B	EAO	80	10	12	3
9330		TACH	02	02	0705	N27	E40	02	5.4			CAI	164	5	11	4
9330		RAMY	02	02	1240	N26	E37	02	5.4		B	ESI	180	16	11	3
9330		HOLL	02	02	1450	N26	E36	02	5.4		B	CAO	150	23	13	3
9330	30294	MWIL	02	02	1600	N25	E35	02	5.4	5	(BG)					
9330		VORO	02	03	0043	N27	E31	02	5.4			DAI	258	9	9	2
9330		LEAR	02	03	0122	N25	E28	02	5.2		B	DSO	130	15	8	2
9330		SVTO	02	03	1130	N26	E24	02	5.3		B	EAO	230	23	12	3
9330		RAMY	02	03	1245	N27	E24	02	5.4		B	ESO	120	11	11	3
9330		LEAR	02	04	0007	N25	E17	02	5.3		B	EAI	150	23	13	5
9330		VORO	02	04	0044	N26	E16	02	5.3			CSI	145	5	8	2
9330		SVTO	02	04	0815	N25	E12	02	5.3		B	EAI	120	9	11	3
9330		TACH	02	04	0848	N23	E07	02	4.9			HA	63	3	2	2
9330		KAND	02	04	1110	N24	E07	02	5.0			CSO		6	6	2
9330		RAMY	02	04	1226	N26	E11	02	5.4		B	EAI	130	17	11	4
9330		HOLL	02	04	1530	N25	E08	02	5.3		B	ESO	80	14	11	2
9330	30294	MWIL	02	04	1600	N25	E09	02	5.4	5	(B)					
9330		LEAR	02	05	0025	N25	E03	02	5.2		B	DSO	100	6	9	3
9330		VORO	02	05	0121	N24	W01	02	5.0			HAX	85	3		3

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SUNSPOT GROUPS
(Ordered by Central Meridian Passage Date)

FEBRUARY 2001

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
9330		SVTO	02 05 0737	N25	W02	02 5.2		B	DAO	90	5	7	3
9330		KAND	02 05 0835	N25	W02	02 5.2			CSO		9	10	4
9330		RAMY	02 05 1319	N26	W02	02 5.4		B	DAO	60	5	7	3
9330		HOLL	02 05 1524	N26	W06	02 5.2		B	DAO	90	6	7	3
9330	30294	MWIL	02 05 1600	N25	W06	02 5.2	4	(B)					
9330		VORO	02 06 0012	N23	W13	02 5.0			HAX	76	4		3
9330		LEAR	02 06 0310	N25	W12	02 5.2		B	DSO	90	6	8	3
9330		SVTO	02 06 0853	N26	W14	02 5.3		B	CAO	90	12	12	3
9330		KAND	02 06 0925	N24	W16	02 5.1			CSO		8	7	4
9330		RAMY	02 06 1239	N27	W14	02 5.4			EAO	60	12	11	4
9330	30294	MWIL	02 06 1530	N25	W18	02 5.2	5	(BP)					
9330		VORO	02 06 2312	N23	W26	02 5.0			HAX	79	9		3
9330		LEAR	02 07 0105	N24	W25	02 5.1		B	DAO	50	7	7	3
9330		TACH	02 07 0707	N25	W26	02 5.3			CAI	69	4	9	2
9330		SVTO	02 07 0752	N26	W27	02 5.2		B	ESO	100	10	11	3
9330		KAND	02 07 0845	N25	W30	02 5.0			EAO		6	11	4
9330		RAMY	02 07 1239	N28	W27	02 5.4		B	CSO	60	7	10	4
9330		HOLL	02 07 1615	N24	W33	02 5.1		B	DAO	80	6	9	2
9330		VORO	02 07 2344	N23	W39	02 5.0			HAX	95	6		3
9330		LEAR	02 08 0454	N26	W37	02 5.3		B	CAO	50	10	12	2
9330		KAND	02 08 0720	N23	W41	02 5.1			CAO		5	10	5
9330		TACH	02 08 0811	N25	W38	02 5.4			CAO	66	3	9	3
9330		SVTO	02 08 1154	N27	W42	02 5.2		B	EAO	100	7	14	2
9330		RAMY	02 08 1236	N26	W42	02 5.3		B	CSO	70	7	11	4
9330	30294	MWIL	02 08 1545	N25	W46	02 5.1	4	(AP)					
9330		HOLL	02 08 1720	N25	W43	02 5.4		B	CAO	90	6	8	3
9330		VORO	02 09 0044	N23	W52	02 5.0			HAX	80	2		3
9330		LEAR	02 09 0615	N26	W49	02 5.4		B	DAO	70	4	9	1
9330		SVTO	02 09 0712	N25	W50	02 5.4		B	EAO	60	4	12	3
9330		KAND	02 09 0740	N22	W55	02 5.1			CSO		3	9	3
9330		RAMY	02 09 1232	N26	W55	02 5.2		B	CSO	40	8	11	3
9330		HOLL	02 09 1532	N24	W60	02 5.0		B	CSO	110	6	7	4
9330	30294	MWIL	02 09 1545	N23	W59	02 5.1	4	(AP)					
9330	30311	MWIL	02 09 1545	N28	W52	02 5.6	4	(BF)					
9330		LEAR	02 10 0200	N22	W67	02 4.9		A	HSX	20	1	1	3
9330		KAND	02 10 1050	N22	W71	02 5.0			AX		1		3
9330		SVTO	02 10 1115	N23	W66	02 5.4		A	AXX	10	1		2
9330		LEAR	02 11 0100	N22	W79	02 5.0		A	AXX	10	1	1	3
9330A		LEAR	02 09 0615	N18	W45	02 5.8		B	CAO	30	3	3	1
9330A		SVTO	02 09 0712	N18	W46	02 5.8		B	DAO	60	4	5	3
9330A		KAND	02 09 0740	N17	W49	02 5.6			BXO		5	4	3
9330A		RAMY	02 09 1232	N19	W49	02 5.8		B	BXO	10	5	5	3
9330A		HOLL	02 09 1532	N18	W49	02 5.9		B	BXO	30	4	4	4
9330A	30310	MWIL	02 09 1545	N18	W51	02 5.8	4	(B)					
9330B	30302	MWIL	02 04 1600	N10	E17	02 5.9	3	(AP)					
9330B	30306	MWIL	02 06 1530	N11	W10	02 5.9	4	(AP)					
9340		HOLL	02 04 1530	S12	E22	02 6.3		A	AXX	10	3	2	2
9340	30303	MWIL	02 04 1600	S12	E23	02 6.4	4	(BP)					
9340		LEAR	02 05 0025	S13	E17	02 6.3		B	CRO	20	5	4	3
9340		VORO	02 05 0121	S12	E21	02 6.6			AXX	35	6	8	3
9340		SVTO	02 05 0737	S13	E14	02 6.4		B	CRO	10	4	3	3
9340		KAND	02 05 0835	S12	E14	02 6.4			BXO		3	3	4
9340		RAMY	02 05 1319	S12	E10	02 6.3		B	BXO		3	2	3
9340		HOLL	02 05 1524	S13	E10	02 6.4		A	AXX		1		3
9340	30303	MWIL	02 05 1600	S12	E09	02 6.3	3	(BF)					
9340		RAMY	02 08 1236	S11	W30	02 6.3		A	AXX		2	1	4
9340A		LEAR	02 07 0105	N10	W02	02 6.9		A	AXX		1		3
9340A		SVTO	02 07 0752	N09	W05	02 6.9		A	AXX		1		3
9340A		KAND	02 07 0845	N09	W06	02 6.9			AX		1		4
9340B		LEAR	02 06 0310	N16	E13	02 7.1		A	HRO	10	1	1	3
9340B	30307	MWIL	02 06 1530	N15	E05	02 7.0	4	(B)					
9340B		KAND	02 08 0720	N20	W14	02 7.2			BXO		4	4	5
9340B		TACH	02 08 0811	N19	W14	02 7.3			AXX	3	1	1	3
9340B		SVTO	02 08 1154	N20	W18	02 7.1		A	HAX	10	1	1	2

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(Ordered by Central Meridian Passage Date)

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FEBRUARY 2001

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat CMD		CMP		Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day	(UT)	Mo	Day	Mo								Day
9340B		RAMY	02	08	1236	N19 W17	02	7.2		A	AXX		1		4
9340B	30312	MWIL	02	09	1545	N16 W34	02	7.1	4	(BP)					
9340D		VORO	02	11	2327	N31 W62	02	7.1			HRX	34	1		2
9340C		RAMY	02	06	1239	N01 E14	02	7.6		A	AXX		1		4
9334		HOLL	02	01	1515	N12 E82	02	7.8		A	HSX	60	1	2	2
9334	30296	MWIL	02	01	2100	N11 E79	02	7.8	4	AP					
9334		VORO	02	02	0044	N11 E76	02	7.7			HAX	147	1		2
9334		LEAR	02	02	0055	N11 E75	02	7.7		A	HAX	120	1	2	3
9334		TACH	02	02	0705	N12 E72	02	7.7			HSX	120	1	2	4
9334		RAMY	02	02	1240	N11 E75	02	8.2		B	ESO	180	4	15	3
9334		HOLL	02	02	1450	N12 E74	02	8.2		B	ESO	300	7	14	3
9334	30296	MWIL	02	02	1600	N11 E68	02	7.8	4	(B)					
9334		VORO	02	03	0043	N11 E64	02	7.8			DAI	174	3	4	2
9334		LEAR	02	03	0122	N10 E67	02	8.1		B	ESO	170	7	12	2
9334		SVTO	02	03	1130	N11 E60	02	8.0		B	EAO	280	11	11	3
9334		RAMY	02	03	1245	N11 E59	02	8.0		B	DSO	170	7	10	3
9334	30296	MWIL	02	03	1600	N11 E58	02	8.0	5	(B)					
9334		LEAR	02	04	0007	N12 E55	02	8.1		B	FAI	200	20	17	5
9334		VORO	02	04	0044	N12 E53	02	8.0			CAI	274	8	10	2
9334		SVTO	02	04	0815	N12 E48	02	7.9		B	EAO	200	14	11	3
9334		TACH	02	04	0848	N12 E42	02	7.5			CAI	112	7	8	2
9334		KAND	02	04	1110	N12 E43	02	7.7			CSO	7	7	10	2
9334		RAMY	02	04	1226	N10 E46	02	8.0		B	EAI	240	22	12	4
9334		HOLL	02	04	1530	N11 E47	02	8.2		B	EAI	240	11	15	2
9334	30296	MWIL	02	04	1600	N11 E44	02	8.0	5	(B)					
9334		LEAR	02	05	0025	N12 E41	02	8.1		B	EAI	220	17	13	3
9334		VORO	02	05	0121	N11 E36	02	7.8			CAI	167	11	8	3
9334		SVTO	02	05	0737	N11 E35	02	7.9		B	EAI	180	15	13	3
9334		KAND	02	05	0835	N12 E33	02	7.8			EAO	17	17	13	4
9334		RAMY	02	05	1319	N10 E32	02	7.9		B	EAI	140	20	12	3
9334		HOLL	02	05	1524	N13 E30	02	7.9		B	ESO	180	14	13	3
9334	30296	MWIL	02	05	1600	N11 E29	02	7.8	5	(BP)					
9334		VORO	02	06	0012	N11 E24	02	7.8			CAI	130	7	8	3
9334		LEAR	02	06	0310	N12 E24	02	7.9		B	EAO	120	12	11	3
9334		SVTO	02	06	0853	N12 E21	02	7.9		B	EAO	150	17	14	3
9334		KAND	02	06	0925	N12 E17	02	7.7			EAI	14	14	11	4
9334		RAMY	02	06	1239	N10 E20	02	8.0		B	EAI	120	26	12	4
9334	30296	MWIL	02	06	1530	N12 E16	02	7.8	4	(BP)					
9334		VORO	02	06	2312	N11 E12	02	7.9			DAI	234	19	8	3
9334		LEAR	02	07	0105	N12 E12	02	7.9		B	EAO	160	21	12	3
9334		TACH	02	07	0707	N12 E07	02	7.8			CAI	80	7	8	2
9334		SVTO	02	07	0752	N12 E07	02	7.8		B	ESO	150	23	12	3
9334		KAND	02	07	0845	N13 E06	02	7.8			ESO	17	17	11	4
9334		RAMY	02	07	1239	N12 E06	02	8.0		B	ESI	150	27	12	4
9334		HOLL	02	07	1615	N11 E03	02	7.9		B	FAI	140	19	16	2
9334		VORO	02	07	2344	N12 W02	02	7.8			DAI	234	13	7	3
9334		LEAR	02	08	0454	N11 W04	02	7.9		B	EAI	110	25	13	2
9334		KAND	02	08	0720	N12 W06	02	7.8			EAI	23	23	12	5
9334		TACH	02	08	0811	N11 W06	02	7.9			CAI	151	9	9	3
9334		SVTO	02	08	1154	N12 W08	02	7.9		B	EAI	150	17	14	2
9334		RAMY	02	08	1236	N12 W05	02	8.1		B	EAI	90	15	15	4
9334	30296	MWIL	02	08	1545	N13 W10	02	7.9	4	(BP)					
9334		HOLL	02	08	1720	N13 W15	02	7.6		B	ESI	120	12	11	3
9334		VORO	02	09	0044	N12 W16	02	7.8			DAI	120	8	8	3
9334		LEAR	02	09	0615	N12 W17	02	8.0		B	EAO	90	13	11	1
9334		SVTO	02	09	0712	N12 W18	02	7.9		B	ESI	130	15	12	3
9334		KAND	02	09	0740	N12 W20	02	7.8			ESI	12	12	12	3
9334		RAMY	02	09	1232	N13 W21	02	7.9		B	EAI	90	20	11	3
9334		HOLL	02	09	1532	N12 W23	02	7.9		B	ESI	100	13	12	4
9334	30296	MWIL	02	09	1545	N12 W24	02	7.8	5	(BP)					
9334		VORO	02	10	0041	N12 W29	02	7.8			DAI	102	5	9	3
9334		LEAR	02	10	0200	N12 W31	02	7.7		B	EAO	30	10	10	3
9334		KAND	02	10	1050	N12 W35	02	7.8			CSO	7	7	13	3
9334		SVTO	02	10	1115	N12 W34	02	7.9		B	EAO	60	10	13	2
9334		RAMY	02	10	1305	N13 W36	02	7.8		B	ESO	40	8	11	3
9334		HOLL	02	10	1530	N13 W38	02	7.8		B	DSO	70	7	10	2

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(Ordered by Central Meridian Passage Date)

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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
9334		VORO	02 10 2338	N12	W44	02 7.7			DAI	114	4	6	3
9334		LEAR	02 11 0100	N11	W41	02 7.9		B	EAO	60	8	11	3
9334		TACH	02 11 0710	N14	W50	02 7.5			AXX	10	1	1	3
9334		SVTO	02 11 1125	N12	W48	02 7.8		B	CSO	50	5	11	3
9334		RAMY	02 11 1302	N13	W49	02 7.8		B	CSO	20	4	10	3
9334		HOLL	02 11 1635	N13	W53	02 7.7		B	CAO	30	3	11	3
9334		LEAR	02 12 0150	N13	W55	02 7.9		B	CSO	20	2	9	4
9334		TACH	02 12 0549	N13	W62	02 7.6			AXX	10	1	1	3
9334		SVTO	02 12 0744	N13	W59	02 7.9		B	EAO	40	2	13	2
9334		HOLL	02 12 1755	N13	W60	02 8.2		B	BXO	20	2	1	4
9334A		LEAR	02 07 0105	N02	E20	02 8.5		A	AXX		1		3
9334A		SVTO	02 07 0752	N04	E17	02 8.6		B	BXO	10	3	4	3
9334A		KAND	02 07 0845	N03	E16	02 8.6			BXO		2		4
9334A		HOLL	02 07 1615	N02	E12	02 8.6		A	AXX		1		2
9341		SVTO	02 06 0853	S08	E32	02 8.8		B	CRO	10	2	1	3
9341		RAMY	02 06 1239	S11	E28	02 8.6		B	CSO	10	2	1	4
9341	30308	MWIL	02 06 1530	S08	E27	02 8.7	3	(BP)					
9341		LEAR	02 07 0105	S08	E21	02 8.6		B	CRO	10	2	2	3
9341		SVTO	02 07 0752	S09	E17	02 8.6		B	BXO	10	7	6	3
9341		LEAR	02 08 0454	S08	E07	02 8.7		B	BXO	10	4	3	2
9341		KAND	02 08 0720	S09	E05	02 8.7			BXO		4	4	5
9341		TACH	02 08 0811	S08	E04	02 8.6			ARX	31	2	3	3
9341		SVTO	02 08 1154	S08	E03	02 8.7		B	DSO	20	2	3	2
9341		RAMY	02 08 1236	S09	E02	02 8.7		B	BXO		2	3	4
9341	30308	MWIL	02 08 1545	S08	E02	02 8.8	3	(AP)					
9341		HOLL	02 08 1720	S09	E00	02 8.7		B	BXO	30	3	2	3
9341		LEAR	02 09 0615	S09	W08	02 8.6		B	CAO	10	2	3	1
9341		SVTO	02 09 0712	S09	W08	02 8.7		B	DAO	40	4	4	3
9341		KAND	02 09 0740	S09	W09	02 8.6			BXO		3	3	3
9341		RAMY	02 09 1232	S09	W11	02 8.7		B	CSO	10	3	3	3
9341		HOLL	02 09 1532	S09	W11	02 8.8		A	AXX		1	1	4
9341	30308	MWIL	02 09 1545	S08	W13	02 8.7	4	(BF)					
9341		LEAR	02 10 0200	S10	W18	02 8.7		B	CSX	10	2	1	3
9341		KAND	02 10 1050	S10	W22	02 8.8			AX		1	1	3
9341		RAMY	02 10 1305	S09	W24	02 8.7		B	CSO		3	1	3
9341		LEAR	02 11 0100	S09	W31	02 8.7		B	BXO	10	3	3	3
9341		SVTO	02 11 1125	S09	W37	02 8.7		A	HRX	10	1	1	3
9335	30297	MWIL	02 02 1600	N04	E79	02 8.6	2	(B)					
9335	30298	MWIL	02 02 1600	N10	E80	02 8.7	4	B					
9335		VORO	02 03 0043	N11	E77	02 8.8			HRX	190	1		2
9335		SVTO	02 03 1130	N09	E72	02 8.9		B	DAO	100	5	10	3
9335		RAMY	02 03 1245	N09	E75	02 9.2		B	DSO	90	4	10	3
9335	30297	MWIL	02 03 1600	N07	E71	02 9.0	4	(B)					
9335	30298	MWIL	02 03 1600	N10	E68	02 8.8	4	(AP)					
9335		LEAR	02 04 0007	N08	E65	02 8.9		B	DAO	140	8	9	5
9335		VORO	02 04 0044	N09	E66	02 9.0			DAI	193	3	7	2
9335		SVTO	02 04 0815	N09	E62	02 9.0		B	DAO	150	8	9	3
9335		TACH	02 04 0848	N09	E61	02 8.9			CAI	43	5	9	2
9335		KAND	02 04 1110	N08	E58	02 8.8			BXO		6	8	2
9335		KAND	02 04 1110	N11	E55	02 8.6			HA		2	2	2
9335		RAMY	02 04 1226	N08	E58	02 8.9		B	DAO	120	11	8	4
9335		HOLL	02 04 1530	N08	E56	02 8.8		B	DAO	100	6	8	2
9335	30297	MWIL	02 04 1600	N07	E58	02 9.0	4	(BF)					
9335	30298	MWIL	02 04 1600	N10	E54	02 8.7	5	(AP)					
9335		LEAR	02 05 0025	N08	E53	02 9.0		B	DAO	70	7	5	3
9335		VORO	02 05 0121	N10	E46	02 8.5			DAI	95	7	5	3
9335		SVTO	02 05 0737	N09	E48	02 8.9		B	DAO	70	6	9	3
9335		KAND	02 05 0835	N08	E47	02 8.9			CSO		6	10	4
9335		KAND	02 05 0835	N12	E44	02 8.7			HA		2	2	4
9335		RAMY	02 05 1319	N08	E46	02 9.0		B	DAI	100	17	9	3
9335		HOLL	02 05 1524	N08	E43	02 8.9		B	CAO	80	15	9	3
9335	30297	MWIL	02 05 1600	N08	E45	02 9.0	4	(BG)					
9335	30298	MWIL	02 05 1600	N11	E40	02 8.7	5	(AP)					
9335		VORO	02 06 0012	N10	E40	02 9.0			DAI	101	6	8	3
9335		LEAR	02 06 0310	N09	E39	02 9.0		B	EAO	100	9	10	3
9335		SVTO	02 06 0853	N09	E35	02 9.0		B	DAO	100	9	10	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
9335		KAND	02 06 0925	N09	E37	02 9.2			DSO		3	4	4
9335		KAND	02 06 0925	N11	E31	02 8.7			HA		2	1	4
9335		RAMY	02 06 1239	N08	E34	02 9.1			EAI	110	19	13	4
9335	30297	MWIL	02 06 1530	N09	E32	02 9.0	5	(BF)					
9335	30298	MWIL	02 06 1530	N11	E27	02 8.7	4	(AP)					
9335		VORO	02 06 2312	N10	E27	02 9.0			DAI	132	14	8	3
9335		LEAR	02 07 0105	N11	E26	02 9.0		BG	EAO	90	12	10	3
9335		TACH	02 07 0707	N11	E22	02 8.9			DAO	135	3	8	2
9335		SVTO	02 07 0752	N10	E23	02 9.0		B	DSO	120	21	10	3
9335		KAND	02 07 0845	N10	E24	02 9.2			DSO		6	6	4
9335		KAND	02 07 0845	N12	E18	02 8.7			HA		3	1	4
9335		RAMY	02 07 1239	N08	E22	02 9.2		B	ESO	50	18	12	4
9335		HOLL	02 07 1615	N09	E18	02 9.0		B	DAO	100	10	9	2
9335		VORO	02 07 2344	N10	E14	02 9.0			DAI	136	8	9	3
9335		LEAR	02 08 0454	N10	E11	02 9.0		BG	DAI	60	13	10	2
9335		KAND	02 08 0720	N10	E11	02 9.1			BXO		7	5	3
9335		KAND	02 08 0720	N11	E05	02 8.7			HS		2	1	5
9335		TACH	02 08 0811	N10	E08	02 8.9			CAO	95	2	7	3
9335		SVTO	02 08 1154	N10	E07	02 9.0		B	EAO	100	10	11	2
9335		RAMY	02 08 1236	N09	E07	02 9.0		BG	DSI	50	11	10	4
9335	30297	MWIL	02 08 1545	N10	E08	02 9.2	4	(BF)					
9335	30298	MWIL	02 08 1545	N12	E01	02 8.7	5	(AP)					
9335		HOLL	02 08 1720	N08	E04	02 9.0		B	ESI	90	10	12	3
9335		VORO	02 09 0044	N10	E00	02 9.0			DAI	66	6	8	3
9335		LEAR	02 09 0615	N08	W05	02 8.9		B	CAO	60	8	8	1
9335		SVTO	02 09 0712	N08	W04	02 9.0		B	EAO	90	13	11	3
9335		KAND	02 09 0740	N08	W03	02 9.1			BXO		7	5	3
9335		KAND	02 09 0740	N11	W09	02 8.6			HS		2	1	3
9335		RAMY	02 09 1232	N10	W08	02 8.9		B	DAO	20	6	10	3
9335		HOLL	02 09 1532	N10	W08	02 9.0		B	CAO	70	9	10	4
9335	30297	MWIL	02 09 1545	N07	W08	02 9.0	4	(B)					
9335	30298	MWIL	02 09 1545	N11	W12	02 8.7	5	(AP)					
9335		VORO	02 10 0041	N10	W13	02 9.0			DAI	46	4	8	3
9335		LEAR	02 10 0200	N11	W18	02 8.7		A	HSX	40	3	2	3
9335		KAND	02 10 1050	N11	W23	02 8.7			HR		2	1	3
9335		SVTO	02 10 1115	N11	W23	02 8.7		A	HSX	20	2	1	2
9335		RAMY	02 10 1305	N11	W22	02 8.9		B	CSO	20	3	2	3
9335		HOLL	02 10 1530	N11	W25	02 8.8		A	HAX	20	2	1	2
9335		VORO	02 10 2338	N11	W30	02 8.7			HAX	40	3		3
9335		LEAR	02 11 0100	N10	W30	02 8.8		A	HSX	30	1	1	3
9335		TACH	02 11 0710	N12	W33	02 8.8			AXX	1	1	1	3
9335		SVTO	02 11 1125	N11	W37	02 8.7		B	CRO	10	2	1	3
9335		RAMY	02 11 1302	N11	W38	02 8.7		A	AXX		2	1	3
9335		HOLL	02 11 1635	N11	W40	02 8.7		A	AXX	10	2	1	3
9335		LEAR	02 12 0150	N11	W43	02 8.8		A	AXX		1		4
9335		TACH	02 12 0549	N10	W46	02 8.8			AXX	5	1	1	3
9335		SVTO	02 12 0744	N11	W48	02 8.7		A	HRX	20	1	1	2
9335		LEAR	02 14 0014	N09	W62	02 9.3		A	AXX		1		5
9335B		RAMY	02 08 1236	N15	E07	02 9.0		A	AXX		2	1	4
9335B		HOLL	02 08 1720	N16	E06	02 9.2		A	AXX	10	1	1	3
9338	30300	MWIL	02 03 1600	S17	E79	02 9.7	3	AP					
9338		LEAR	02 04 0007	S17	E71	02 9.4		A	AXX	10	1		5
9338		SVTO	02 04 0815	S17	E72	02 9.8		A	HRX	30	3	2	3
9338		KAND	02 04 1110	S17	E71	02 9.9			HS		1	2	2
9338		RAMY	02 04 1226	S19	E67	02 9.6		B	CSO	50	3	5	4
9338		HOLL	02 04 1530	S17	E68	02 9.8		A	HAX	40	2	2	2
9338	30300	MWIL	02 04 1600	S17	E67	02 9.7	4	(B)					
9338		LEAR	02 05 0025	S17	E62	02 9.7		B	BXO	20	2	2	3
9338		SVTO	02 05 0737	S17	E58	02 9.7		B	BXO	20	2	2	3
9338		KAND	02 05 0835	S17	E57	02 9.7			AX		1		4
9338		RAMY	02 05 1319	S19	E55	02 9.7		B	BXO	10	2	4	3
9338		HOLL	02 05 1524	S17	E54	02 9.7		B	BXO	10	3	3	3
9338	30300	MWIL	02 05 1600	S16	E53	02 9.7	4	(B)					
9338		LEAR	02 06 0310	S20	E50	02 9.9		B	CAO	30	3	1	3
9338		SVTO	02 06 0853	S18	E46	02 9.9		B	CSO	40	6	7	3
9338		KAND	02 06 0925	S19	E46	02 9.9			BXO		4	5	4
9338		RAMY	02 06 1239	S22	E44	02 9.9		B	CSO	10	4	6	4

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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
9338	30300	MWIL	02 06	1530	S18 E43	02 9.9	4	(B)					
9338		LEAR	02 07	0105	S19 E37	02 9.9		B	DAO	40	5	5	3
9338		TACH	02 07	0707	S19 E32	02 9.7			AXX	3	3	2	2
9338		KAND	02 07	0845	S17 E31	02 9.7			CSO		5	4	4
9338		RAMY	02 07	1239	S19 E29	02 9.7		B	CSO	10	6	5	4
9338		HOLL	02 07	1615	S18 E25	02 9.6		B	BXO	20	5	4	2
9338		VORO	02 07	2344	S17 E22	02 9.7			AXX	36	7	4	3
9338		LEAR	02 08	0454	S17 E20	02 9.7		B	BXO	20	7	8	2
9338		KAND	02 08	0720	S18 E19	02 9.7			BXO		8	6	5
9338		TACH	02 08	0811	S17 E18	02 9.7			BRO	18	4	5	3
9338		SVTO	02 08	1154	S18 E15	02 9.6		B	DAO	40	5	7	2
9338		RAMY	02 08	1236	S19 E15	02 9.7		B	BXO	10	7	7	4
9338	30300	MWIL	02 08	1545	S17 E12	02 9.6	4	(BG)					
9338		HOLL	02 08	1720	S18 E13	02 9.7		B	BXO	30	5	7	3
9338		LEAR	02 09	0615	S17 E05	02 9.6		B	BXO	10	3	6	1
9338		SVTO	02 09	0712	S21 E08	02 9.9		B	FAI	120	21	16	3
9338		KAND	02 09	0740	S19 E05	02 9.7			BXO		9	10	3
9338		RAMY	02 09	1232	S20 E01	02 9.6		B	DAO	50	15	9	3
9338		HOLL	02 09	1532	S19 E04	02 9.9		B	DAO	80	15	7	4
9338	30313	MWIL	02 09	1545	S20 E03	02 9.9	5	(BG)					
9338		VORO	02 10	0041	S20 E01	02 10.1			DAI	242	11	13	3
9338		LEAR	02 10	0200	S21 W03	02 9.8		BG	DAO	60	26	8	3
9338		KAND	02 10	1050	S20 W07	02 9.9			DAI		23	10	3
9338		SVTO	02 10	1115	S20 W08	02 9.8		B	DAO	230	27	9	2
9338		RAMY	02 10	1305	S20 W10	02 9.8		BG	DAI	220	24	9	3
9338		HOLL	02 10	1530	S19 W09	02 9.9		B	DAI	220	18	9	2
9338		VORO	02 10	2338	S20 W14	02 9.9			DAI	429	21	9	3
9338		LEAR	02 11	0100	S20 W15	02 9.9		BG	DHO	160	25	10	3
9338		TACH	02 11	0710	S19 W17	02 10.0			CAI	280	10	8	3
9338		SVTO	02 11	1125	S21 W22	02 9.8		B	EAI	280	21	12	3
9338		RAMY	02 11	1302	S20 W22	02 9.9		BG	DSI	200	22	9	3
9338		HOLL	02 11	1635	S20 W25	02 9.8		B	CAO	190	16	9	3
9338		VORO	02 11	2327	S20 W27	02 9.9			DAI	314	7	10	2
9338		LEAR	02 12	0150	S20 W26	02 10.1		BG	ESO	170	15	13	4
9338		TACH	02 12	0549	S20 W29	02 10.0			CAI	279	5	9	3
9338		SVTO	02 12	0744	S21 W33	02 9.8		B	EAO	280	9	12	2
9338		HOLL	02 12	1755	S20 W40	02 9.7		B	CSO	120	8	8	4
9338		VORO	02 12	2314	S21 W42	02 9.7			CSO	296	3	7	2
9338		LEAR	02 13	0105	S20 W42	02 9.8		B	CSO	170	6	8	5
9338		TACH	02 13	0538	S20 W44	02 9.9			CAI	283	5	7	5
9338		SVTO	02 13	0900	S21 W48	02 9.7		B	DAO	150	5	9	3
9338		RAMY	02 13	1325	S20 W49	02 9.8		B	DSO	100	6	8	3
9338		VORO	02 13	2349	S21 W59	02 9.5			HAX	257	1		2
9338		LEAR	02 14	0014	S21 W56	02 9.7		B	CSO	120	5	9	5
9338		TACH	02 14	0541	S22 W62	02 9.5			HSX	100	1	1	3
9338		SVTO	02 14	0801	S19 W60	02 9.7		B	CSO	120	3	9	3
9338		RAMY	02 14	1437	S20 W65	02 9.6		B	DSO	100	4	6	2
9338		LEAR	02 15	0010	S21 W70	02 9.6		A	HSX	170	1	2	4
9338		SVTO	02 15	1048	S17 W78	02 9.5		B	CSO	60	3	6	3
9338		KAND	02 15	1105	S22 W77	02 9.5			CAO		2	6	4
9338		RAMY	02 15	1510	S19 W80	02 9.5		B	CSO	60	2	6	2
9338		HOLL	02 15	1530	S21 W80	02 9.5		A	HSX	120	1	2	3
9338		VORO	02 15	2320	S20 W80	02 9.8			HAX	101	1		2
9338		LEAR	02 16	0015	S22 W81	02 9.8		A	HSX	60	1	1	4
9335C	30314	MWIL	02 09	1545	N17 E02	02 9.8	4	(AF)					
9337		SVTO	02 03	1130	S27 E80	02 9.7		A	AXX		1		3
9337		RAMY	02 03	1245	S27 E84	02 10.1		A	AXX	10	1	2	3
9337	30301	MWIL	02 03	1600	S27 E79	02 9.8	3	AP					
9337		LEAR	02 04	0007	S27 E74	02 9.8		A	AXX	10	1		5
9337		SVTO	02 04	0815	S27 E71	02 9.9		A	AXX		1		3
9337		KAND	02 04	1110	S26 E70	02 9.9			AX		1		2
9337		RAMY	02 04	1226	S28 E69	02 9.9		B	CSO	30	3	2	4
9337		HOLL	02 04	1530	S27 E68	02 9.9		A	HSX	40	1	1	2
9337	30301	MWIL	02 04	1600	S28 E66	02 9.8	4	(B)					
9337		LEAR	02 05	0025	S27 E62	02 9.8		B	BXO	20	5	3	3
9337		SVTO	02 05	0737	S28 E60	02 10.0		B	CRO	20	3	3	3
9337		KAND	02 05	0835	S27 E58	02 9.9			AX		5	4	4

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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
9337		RAMY	02 05 1319	S29	E56	02 9.9		B	CSO	20	3	2	3
9337		HOLL	02 05 1524	S27	E55	02 9.9		A	AXX	10	4	2	3
9337	30301	MWIL	02 05 1600	S27	E53	02 9.8	4	(AP)					
9337		VORO	02 06 0012	S27	E49	02 9.8			HAX	71	3		3
9337		LEAR	02 06 0310	S28	E48	02 9.9		B	DAO	40	2	2	3
9337		SVTO	02 06 0853	S28	E46	02 10.0		B	CAO	60	2	4	3
9337		KAND	02 06 0925	S27	E45	02 9.9			CAO		4	5	4
9337		RAMY	02 06 1239	S31	E43	02 9.9		B	CAO	30	10	5	4
9337	30301	MWIL	02 06 1530	S28	E43	02 10.0	4	(B)					
9337		VORO	02 06 2312	S28	E38	02 9.9			HAX	42	5	4	3
9337		LEAR	02 07 0105	S27	E37	02 9.9		B	CAO	40	7	5	3
9337		TACH	02 07 0707	S27	E34	02 9.9			CRO	73	4	4	2
9337		SVTO	02 07 0752	S27	E33	02 9.9		B	DAO	60	8	6	3
9337		KAND	02 07 0845	S26	E33	02 9.9			DAO		3	6	4
9337		RAMY	02 07 1239	S29	E30	02 9.9		B	CSO	20	5	4	4
9337		HOLL	02 07 1615	S26	E28	02 9.8		B	DAO	50	6	4	2
9337		VORO	02 07 2344	S28	E26	02 10.0			AXX	46	6	4	3
9337		LEAR	02 08 0454	S27	E24	02 10.1		B	CRO	20	7	8	2
9337		KAND	02 08 0720	S27	E21	02 9.9			BXO		7	4	5
9337		TACH	02 08 0811	S26	E20	02 9.9			AXX	8	2	2	3
9337		SVTO	02 08 1154	S27	E18	02 9.9		B	DAO	20	4	2	2
9337		RAMY	02 08 1236	S29	E18	02 9.9		B	CSO	10	6	4	4
9337	30301	MWIL	02 08 1545	S26	E15	02 9.8	3	(AP)					
9337		HOLL	02 08 1720	S26	E14	02 9.8		B	CSO	40	4	2	3
9344		LEAR	02 08 0454	N31	E23	02 10.0		A	AXX	10	2	2	2
9344		KAND	02 08 0720	N31	E20	02 9.9			BXO		3	2	5
9344		TACH	02 08 0811	N31	E20	02 9.9			ARX	6	2	2	3
9344		SVTO	02 08 1154	N32	E18	02 9.9		B	DAO	30	2	3	2
9344		RAMY	02 08 1236	N30	E19	02 10.0		B	BXO		4	2	4
9344		HOLL	02 08 1720	N31	E17	02 10.1		B	BXO	40	3	3	3
9344		LEAR	02 09 0615	N31	E11	02 10.1		B	DSO	30	2	2	1
9344		SVTO	02 09 0712	N30	E08	02 9.9		B	DAO	40	2	3	3
9344		KAND	02 09 0740	N31	E09	02 10.0			AX		2	2	3
9344		RAMY	02 09 1232	N31	E06	02 10.0		B	CSO	10	7	4	3
9344		HOLL	02 09 1532	N31	E06	02 10.1		B	BXO	20	3	4	4
9344		LEAR	02 10 0200	N29	W03	02 9.8		A	HSX	10	1	1	3
9344		RAMY	02 10 1305	N30	W08	02 9.9		B	CSO	10	2	1	3
9344A	30315	MWIL	02 09 1545	N13	E05	02 10.0	4	(B)					
9339		KAND	02 04 1110	S08	E78	02 10.3			HS		1	2	2
9339		RAMY	02 04 1226	S12	E79	02 10.5		B	DSO	70	5	7	4
9339		HOLL	02 04 1530	S11	E79	02 10.6		A	HAX	60	3	7	2
9339	30304	MWIL	02 04 1600	S11	E78	02 10.5	3	(B)					
9339		LEAR	02 05 0025	S10	E75	02 10.6		B	DAO	110	7	5	3
9339		VORO	02 05 0121	S09	E73	02 10.5			DSO	255	3	9	3
9339		SVTO	02 05 0737	S11	E70	02 10.6		B	EAO	240	4	11	3
9339		KAND	02 05 0835	S09	E71	02 10.7			EAO		5	11	4
9339		RAMY	02 05 1319	S12	E65	02 10.4		B	DAO	220	7	8	3
9339		HOLL	02 05 1524	S11	E66	02 10.6		B	EKO	320	8	11	3
9339	30304	MWIL	02 05 1600	S10	E67	02 10.7	5	(BF)					
9339		VORO	02 06 0012	S10	E61	02 10.6			DAI	402	4	8	3
9339		LEAR	02 06 0310	S10	E59	02 10.6		B	EKO	190	9	10	3
9339		SVTO	02 06 0853	S09	E56	02 10.6		B	EAO	270	9	11	3
9339		KAND	02 06 0925	S10	E56	02 10.6			DAI		10	10	4
9339		RAMY	02 06 1239	S13	E52	02 10.4		B	EAO	280	15	11	4
9339	30304	MWIL	02 06 1530	S10	E52	02 10.5	5	(BG)					
9339		VORO	02 06 2312	S10	E47	02 10.5			DAI	270	12	9	3
9339		LEAR	02 07 0105	S09	E46	02 10.5		B	EAO	160	14	11	3
9339		TACH	02 07 0707	S10	E42	02 10.4			DRO	275	3	10	2
9339		SVTO	02 07 0752	S09	E42	02 10.5		B	EAO	310	10	12	3
9339		KAND	02 07 0845	S09	E42	02 10.5			ESO		9	12	4
9339		RAMY	02 07 1239	S11	E40	02 10.5		B	EAO	280	13	12	4
9339		HOLL	02 07 1615	S10	E38	02 10.5		B	EAI	270	12	11	2
9339		VORO	02 07 2344	S10	E34	02 10.5			DAI	383	6	9	3
9339		LEAR	02 08 0454	S10	E30	02 10.4		B	EAO	190	13	11	2
9339		KAND	02 08 0720	S09	E29	02 10.5			EAO		15	12	5
9339		TACH	02 08 0811	S10	E28	02 10.4			DAO	380	5	10	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		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day											(UT)
9339		SVTO	02	08	1154	S10 E27	02 10.5		B	EAO	240	10	13	2
9339		RAMY	02	08	1236	S12 E27	02 10.5		B	EAO	220	13	13	4
9339	30304	MWIL	02	08	1545	S09 E25	02 10.5	5	(B)					
9339		HOLL	02	08	1720	S10 E25	02 10.6		B	EK1	200	14	11	3
9339		VORO	02	09	0044	S10 E20	02 10.5			DAI	368	5	10	3
9339		LEAR	02	09	0615	S10 E11	02 10.1		B	ESO	220	10	12	1
9339		SVTO	02	09	0712	S11 E15	02 10.4		B	EAO	260	11	13	3
9339		KAND	02	09	0740	S09 E14	02 10.4			ESO		6	12	3
9339		RAMY	02	09	1232	S10 E12	02 10.4		B	EAO	190	11	13	3
9339		HOLL	02	09	1532	S10 E11	02 10.5		B	EAO	170	11	13	4
9339	30304	MWIL	02	09	1545	S09 E10	02 10.4	5	(BP)					
9339		VORO	02	10	0041	S10 E06	02 10.5			DAI	231	6	10	3
9339		LEAR	02	10	0200	S10 E04	02 10.4		B	EAO	110	10	12	3
9339		KAND	02	10	1050	S09 W05	02 10.1			HS		1	3	3
9339		SVTO	02	10	1115	S09 W01	02 10.4		B	CSO	140	4	12	2
9339		RAMY	02	10	1305	S10 W01	02 10.5		B	EAO	120	5	11	3
9339		HOLL	02	10	1530	S09 W04	02 10.3		B	EAO	150	5	11	2
9339		VORO	02	10	2338	S09 W13	02 10.0			HAX	227	6		3
9339		LEAR	02	11	0100	S09 W06	02 10.6		B	FAO	120	14	16	3
9339		TACH	02	11	0710	S07 W10	02 10.5			CAO	205	2	12	3
9339		SVTO	02	11	1125	S08 W13	02 10.5		B	CAO	90	5	16	3
9339		RAMY	02	11	1302	S08 W13	02 10.6		B	EAO	130	6	15	3
9339		HOLL	02	11	1635	S08 W16	02 10.5		B	CAO	150	10	15	3
9339		VORO	02	11	2327	S09 W27	02 9.9			HSX	182	2		2
9339		LEAR	02	12	0150	S09 W21	02 10.5		B	CSO	90	5	15	4
9339		TACH	02	12	0549	S09 W26	02 10.3			CAO	210	3	7	3
9339		SVTO	02	12	0744	S09 W28	02 10.2		B	DAO	130	4	8	2
9339		HOLL	02	12	1755	S09 W38	02 9.9		B	CSO	100	4	3	4
9339		VORO	02	12	2314	S09 W40	02 10.0			HSX	210	1		2
9339		LEAR	02	13	0105	S09 W39	02 10.1		B	CRO	70	4	4	5
9339		TACH	02	13	0538	S09 W42	02 10.1			HRX	250	1	2	5
9339		SVTO	02	13	0900	S09 W46	02 9.9		A	HAX	110	2	2	3
9339		RAMY	02	13	1325	S09 W47	02 10.0		A	HSX	80	2	2	3
9339		VORO	02	13	2349	S10 W53	02 10.0			HSX	159	1		2
9339		LEAR	02	14	0014	S09 W53	02 10.0		A	HSX	100	2	2	5
9339		TACH	02	14	0541	S10 W56	02 10.0			HSX	50	1	1	3
9339		SVTO	02	14	0801	S09 W58	02 10.0		A	HSX	110	1	3	3
9339		RAMY	02	14	1437	S09 W61	02 10.0		A	HSX	70	1	2	2
9339		LEAR	02	15	0010	S10 W65	02 10.1		A	HAX	90	1	2	4
9339		SVTO	02	15	1048	S07 W75	02 9.8		A	HSX	60	1	2	3
9339		KAND	02	15	1105	S11 W73	02 10.0			HS		1	2	4
9339		RAMY	02	15	1510	S09 W75	02 10.0		A	HSX	60	1	2	2
9339		HOLL	02	15	1530	S11 W76	02 9.9		A	HSX	90	1	2	3
9339		VORO	02	15	2320	S09 W81	02 9.9			HAX	129	1		2
9339		LEAR	02	16	0015	S11 W79	02 10.1		A	HSX	60	1	1	4
9345		LEAR	02	08	0454	S21 E31	02 10.6		A	AXX		2		2
9345		KAND	02	08	0720	S20 E29	02 10.5			BXO		3	2	5
9345		RAMY	02	08	1236	S21 E24	02 10.4		A	AXX		2	1	4
9345		HOLL	02	08	1720	S19 E21	02 10.3		A	AXX	10	1	1	3
9345		LEAR	02	09	0615	S15 E20	02 10.8		A	HSX	10	1	1	1
9345		KAND	02	09	0740	S20 E15	02 10.5			BXO		3	4	3
9345		RAMY	02	09	1232	S20 E11	02 10.4		B	DAO	40	7	5	3
9345		HOLL	02	09	1532	S20 E11	02 10.5		B	CSO	50	7	5	4
9345	30316	MWIL	02	09	1545	S19 E11	02 10.5	5	(B)					
9345		LEAR	02	10	0200	S20 E05	02 10.5		B	CSO	20	9	5	3
9345		KAND	02	10	1050	S20 E01	02 10.5			CSO		2	4	3
9345		SVTO	02	10	1115	S20 W01	02 10.4		B	DSO	40	6	6	2
9345		RAMY	02	10	1305	S20 W02	02 10.4		B	DAO	40	6	5	3
9345		HOLL	02	10	1530	S18 W02	02 10.5		B	DAO	30	5	6	2
9345		LEAR	02	11	0100	S20 W08	02 10.4		B	DAO	30	7	6	3
9345		SVTO	02	11	1125	S20 W13	02 10.5		B	BXO	20	7	7	3
9345		RAMY	02	11	1302	S19 W15	02 10.4		B	CSO	10	6	5	3
9345		HOLL	02	11	1635	S19 W17	02 10.4		B	CAO	20	4	4	3
9345		RAMY	02	13	1325	S20 W40	02 10.5		A	AXX		2	1	3
9345A		RAMY	02	06	1239	S13 E64	02 11.3		B	BXO	10	2	8	4
9348		SVTO	02	07	0752	N11 E54	02 11.4		B	BXO	10	3	5	3

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

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Feb 01

FEBRUARY 2001

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual	
			Mo	Day											(UT)
9348		KAND	02	07	0845	N11 E56	02 11.6			AX		2	1	4	
9348		RAMY	02	07	1239	N08 E52	02 11.4		B	CRO	10	3	4	4	
9348		LEAR	02	10	0200	N08 E17	02 11.3		B	BXO	10	2	3	3	
9348		SVTO	02	10	1115	N09 E12	02 11.4		B	CRO	10	2	3	2	
9348		RAMY	02	10	1305	N11 E11	02 11.4		B	CSO	10	5	3	3	
9348		HOLL	02	10	1530	N09 E10	02 11.4		A	AXX	10	3	2	2	
9348		LEAR	02	11	0100	N09 E04	02 11.3		B	BXO	10	5	4	3	
9348		LEAR	02	11	0100	N14 E06	02 11.5		B	CRO	20	3	3	3	
9348		TACH	02	11	0710	N13 E02	02 11.4			BRO	4	4	1	3	
9348		SVTO	02	11	1125	N09 W02	02 11.3		B	BXO	10	3	4	3	
9348		SVTO	02	11	1125	N14 W01	02 11.4		B	BXO	10	4	3	3	
9348		RAMY	02	11	1302	N12 W02	02 11.4		B	CAO	10	6	5	3	
9348		HOLL	02	11	1635	N13 W03	02 11.5		B	BXO	10	9	5	3	
9348		VORO	02	11	2327	N14 W05	02 11.6			AXX	15	1		2	
9348		LEAR	02	12	0150	N13 W08	02 11.5		B	CAO	20	3	3	4	
9348		TACH	02	12	0549	N14 W09	02 11.6			AXX	20	1	1	3	
9348		SVTO	02	12	0744	N14 W12	02 11.4		B	CAO	20	4	3	2	
9348		TACH	02	13	0538	N15 W22	02 11.6			AXX	32	5	2	5	
9348		SVTO	02	13	0900	N15 W26	02 11.4		B	DAO	50	10	3	3	
9348		RAMY	02	13	1325	N15 W27	02 11.5		B	DAO	30	9	4	3	
9348		VORO	02	13	2349	N15 W33	02 11.5			HRX	133	4	4	2	
9348		LEAR	02	14	0014	N15 W33	02 11.5		B	DAO	60	12	4	5	
9348		TACH	02	14	0541	N15 W35	02 11.6			CRO	59	3	4	3	
9348		SVTO	02	14	0801	N15 W37	02 11.5		B	DSO	60	9	5	3	
9348		RAMY	02	14	1437	N16 W40	02 11.6		B	DAO	80	11	6	2	
9348		LEAR	02	15	0010	N15 W45	02 11.6		B	DSO	100	8	5	4	
9348		SVTO	02	15	1048	N16 W52	02 11.5		B	DSO	100	9	9	3	
9348		KAND	02	15	1105	N13 W53	02 11.5			DSO		3	6	4	
9348		RAMY	02	15	1510	N15 W55	02 11.5		B	DAO	80	6	6	2	
9348		HOLL	02	15	1530	N16 W54	02 11.5		B	DSO	180	7	6	3	
9348		VORO	02	15	2358	N15 W59	02 11.5			CRO	90	2	5	2	
9348		LEAR	02	16	0015	N13 W59	02 11.5		B	DAO	80	7	8	4	
9348		SVTO	02	16	0717	N15 W64	02 11.4		B	DAO	110	8	8	2	
9348		KAND	02	16	1105	N14 W68	02 11.3			DSO		9	7	1	
9348		RAMY	02	16	1312	N16 W67	02 11.5		B	DAO	100	8	7	3	
9348		HOLL	02	16	1455	N15 W71	02 11.2		B	DAO	150	6	6	3	
9348	30319	MWIL	02	16	1600	N16 W67	02 11.6	4	(B)						
9348		LEAR	02	17	0010	N16 W70	02 11.7		B	DAO	90	5	5	2	
9348		KAND	02	17	0645	N14 W77	02 11.5			BXO		4	6	4	
9348		SVTO	02	17	0735	N15 W79	02 11.3		B	EAO	90	3	15	2	
9348		RAMY	02	17	1220	N18 W77	02 11.6		B	DSO	30	3	6	4	
9348		HOLL	02	17	1452	N16 W76	02 11.8		A	AXX	20	1	1	3	
9342		LEAR	02	06	0310	S26 E66	02 11.2			A	AXX	10	1	1	3
9342		SVTO	02	06	0853	S26 E65	02 11.4			A	HRX	10	1	1	3
9342	30309	MWIL	02	06	1530	S26 E62	02 11.5	4	(B)						
9342		SVTO	02	07	0752	S26 E50	02 11.2		A	AXX		1		3	
9342		LEAR	02	13	0105	S28 W19	02 11.6		A	AXX	10	2	2	5	
9342		TACH	02	13	0538	S27 W20	02 11.7			ARX	38	3	3	5	
9342		SVTO	02	13	0900	S27 W24	02 11.5		B	DAO	30	7	4	3	
9342		RAMY	02	13	1325	S27 W26	02 11.5		B	CAO	10	7	6	3	
9342		LEAR	02	14	0014	S28 W32	02 11.5		B	CAO	30	6	6	5	
9342		TACH	02	14	0541	S27 W39	02 11.2			BRO	15	2	4	3	
9342		SVTO	02	14	0801	S27 W38	02 11.4		B	DSO	30	3	6	3	
9342		RAMY	02	14	1437	S27 W40	02 11.5		B	CSO	20	5	6	2	
9342		VORO	02	14	2349	S27 W42	02 11.7			CRO	59	2	5	2	
9342		LEAR	02	15	0010	S27 W42	02 11.7		A	AXX	10	1		4	
9342		SVTO	02	15	1048	S26 W49	02 11.6		A	HSX	20	1	1	3	
9342		KAND	02	15	1105	S28 W47	02 11.8			AX		1		4	
9342		RAMY	02	15	1510	S26 W50	02 11.7		B	CSO	20	2	1	2	
9342		HOLL	02	15	1530	S28 W49	02 11.8		A	AXX	10	1	1	3	
9342		RAMY	02	16	1312	S23 W60	02 11.9		B	BXO		2	2	3	
9351		SVTO	02	15	1048	S21 W36	02 12.7		B	CSO	20	3	4	3	
9351		KAND	02	15	1105	S22 W35	02 12.8			BXO		3	3	4	
9351		RAMY	02	15	1510	S21 W38	02 12.7		B	BXO	10	5	4	2	
9351		HOLL	02	15	1530	S22 W37	02 12.8		B	BXO	10	2	2	3	
9351		SVTO	02	16	0717	S23 W44	02 12.9		B	CSO	30	2	4	2	
9351	30320	MWIL	02	16	1600	S22 W49	02 12.9	3	(AF)						

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FEBRUARY 2001

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
9351		KAND	02 17 0645	S23	W56	02 13.0			AX		2	1	4
9351		RAMY	02 18 1210	S20	W75	02 12.8		B	CSO	10	2	3	4
9351		LEAR	02 19 0120	S21	W80	02 12.9		A	AXX		1	1	4
9347		LEAR	02 09 0615	N05	E75	02 14.9		B	DSO	90	3	3	1
9347		SVTO	02 09 0712	N05	E75	02 14.9		B	DAO	120	4	9	3
9347		KAND	02 09 0740	N05	E78	02 15.1			CSO		3	4	3
9347		RAMY	02 09 1232	N03	E69	02 14.7		B	CSO	60	4	3	3
9347		HOLL	02 09 1532	N03	E71	02 14.9		B	CSO	100	4	7	4
9347	30317	MWIL	02 09 1545	N04	E69	02 14.8	4	(B)					
9347		VORO	02 10 0041	N04	E64	02 14.8			HAX	101	3		3
9347		LEAR	02 10 0200	N03	E62	02 14.7		B	CSO	20	5	3	3
9347		KAND	02 10 1050	N05	E59	02 14.9			BXO		4	3	3
9347		SVTO	02 10 1115	N04	E58	02 14.8		B	DSO	60	4	3	2
9347		RAMY	02 10 1305	N03	E57	02 14.8		B	DSO	50	4	4	3
9347		HOLL	02 10 1530	N04	E58	02 15.0		B	CSO	50	3	3	2
9347		VORO	02 10 2338	N04	E50	02 14.7			DAI	119	4	2	3
9347		LEAR	02 11 0100	N04	E50	02 14.8		B	DSO	60	3	3	3
9347		TACH	02 11 0710	N05	E47	02 14.8			BRO	30	2	3	3
9347		SVTO	02 11 1125	N04	E45	02 14.8		B	DSO	40	6	4	3
9347		RAMY	02 11 1302	N04	E42	02 14.7		B	DAO	60	2	3	3
9347		HOLL	02 11 1635	N04	E42	02 14.8		B	CAO	30	5	4	3
9347		VORO	02 11 2327	N05	E39	02 14.9			HRX	63	2		2
9347		LEAR	02 12 0150	N04	E37	02 14.8		B	DSO	40	2	3	4
9347		TACH	02 12 0549	N04	E34	02 14.8			BRO	65	2	2	3
9347		SVTO	02 12 0744	N04	E35	02 14.9		B	DSO	50	4	6	2
9347		HOLL	02 12 1755	N04	E28	02 14.8		B	DAO	60	4	3	4
9347		VORO	02 12 2314	N05	E26	02 14.9			HRX	35	2		2
9347		LEAR	02 13 0105	N04	E23	02 14.8		B	CRO	40	4	4	5
9347		TACH	02 13 0538	N05	E21	02 14.8			CAO	95	2	3	5
9347		SVTO	02 13 0900	N04	E19	02 14.8		B	DSO	30	2	3	3
9347		RAMY	02 13 1325	N04	E18	02 14.9		B	DSO	30	2	3	3
9347		VORO	02 13 2358	N05	E13	02 15.0			HRX	42	2		2
9347		LEAR	02 14 0014	N04	E12	02 14.9		B	CSO	30	5	4	5
9347		TACH	02 14 0541	N05	E08	02 14.8			BRO	45	2	2	3
9347		SVTO	02 14 0801	N04	E06	02 14.8		B	DSO	20	3	3	3
9347		RAMY	02 14 1437	N04	E03	02 14.8		B	CSO	30	5	5	2
9347		VORO	02 14 2349	N04	W02	02 14.8			AXX	17	2	3	2
9347		LEAR	02 15 0010	N04	W02	02 14.8		B	DAO	30	5	4	4
9347		SVTO	02 15 1048	N05	W08	02 14.8		B	DAO	30	5	6	3
9347		KAND	02 15 1105	N04	W08	02 14.9			DSO		4	4	4
9347		RAMY	02 15 1510	N04	W11	02 14.8		B	CSO	20	4	4	2
9347		HOLL	02 15 1530	N04	W11	02 14.8		B	CSO	30	4	4	3
9347		VORO	02 15 2320	N05	W14	02 14.9			AXX	7	1		2
9347		LEAR	02 16 0015	N04	W17	02 14.7		B	BXO	10	3	4	4
9347		SVTO	02 16 0717	N04	W19	02 14.9		B	CSO	10	2	4	2
9347		KAND	02 17 0645	N04	W31	02 15.0			AX		1		4
9347		SVTO	02 17 0735	N04	W33	02 14.8		B	CSO	20	2	3	2
9347		RAMY	02 17 1220	N05	W35	02 14.9		A	HSX		2	2	4
9349	30318	MWIL	02 09 1545	N28	E77	02 15.7	4	(AP)					
9349		VORO	02 10 0041	N26	E68	02 15.3			HRX	56	1		3
9349		LEAR	02 10 0200	N27	E68	02 15.4		A	HSX	20	1	1	3
9349		KAND	02 10 1050	N29	E66	02 15.6			AX		2	3	3
9349		SVTO	02 10 1115	N29	E68	02 15.8		A	HRX	30	1	1	2
9349		RAMY	02 10 1305	N27	E65	02 15.6		A	HSX	60	1	1	3
9349		HOLL	02 10 1530	N28	E68	02 16.0		A	HAX	90	1	2	2
9349		LEAR	02 11 0100	N28	E59	02 15.6		A	HSX	50	2	1	3
9349		TACH	02 11 0710	N29	E54	02 15.5			AXX	20	1	1	3
9349		SVTO	02 11 1125	N28	E53	02 15.6		A	HRX	40	1	1	3
9349		RAMY	02 11 1302	N28	E51	02 15.5		A	HSX	40	1	2	3
9349		HOLL	02 11 1635	N28	E50	02 15.6		A	HSX	40	1	1	3
9349		VORO	02 11 2327	N28	E47	02 15.6			HRX	54	1		2
9349		LEAR	02 12 0150	N27	E44	02 15.5		A	HSX	30	1	2	4
9349		TACH	02 12 0549	N28	E42	02 15.5			HRX	60	1	1	3
9349		SVTO	02 12 0744	N28	E43	02 15.7		A	HSX	30	1	1	2
9349		HOLL	02 12 1755	N28	E38	02 15.7		A	HSX	20	1	2	4
9349		VORO	02 12 2314	N28	E34	02 15.6			HRX	46	1		2
9349		LEAR	02 13 0105	N27	E32	02 15.5		A	HSX	30	1	1	5

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day											(UT)
9349		TACH	02	13	0538	N29 E30	02 15.6			HRX	60	1	1	5
9349		SVTO	02	13	0900	N28 E28	02 15.6		A	HSX	40	1	1	3
9349		RAMY	02	13	1325	N29 E27	02 15.7		A	HSX	30	1	1	3
9349		VORO	02	13	2358	N28 E21	02 15.6			HRX	34	1		2
9349		LEAR	02	14	0014	N27 E20	02 15.6		A	HAX	20	1	1	5
9349		TACH	02	14	0541	N28 E17	02 15.6			HSX	45	1	1	3
9349		SVTO	02	14	0801	N28 E16	02 15.6		A	HSX	40	1	1	3
9349		RAMY	02	14	1437	N29 E13	02 15.6		A	HAX	30	1	2	2
9349		VORO	02	14	2349	N28 E08	02 15.6			HRX	23	1		2
9349		LEAR	02	15	0010	N28 E07	02 15.5		A	HSX	20	1	1	4
9349		SVTO	02	15	1048	N28 E03	02 15.7		A	HSX	10	1	1	3
9349		KAND	02	15	1105	N28 E01	02 15.5			CSO	2	2	3	4
9349		RAMY	02	15	1510	N29 E00	02 15.6		A	HAX	30	1	1	2
9349		HOLL	02	15	1530	N28 W01	02 15.6		A	HSX	20	1	1	3
9349		VORO	02	15	2320	N28 W05	02 15.6			AXX	14	1		2
9349		LEAR	02	16	0015	N28 W06	02 15.5		A	HSX	50	1	1	4
9349		SVTO	02	16	0717	N28 W09	02 15.6		A	HSX	20	1	1	2
9349		KAND	02	16	1105	N27 W12	02 15.5			HS	1	1	1	1
9349		RAMY	02	16	1312	N29 W12	02 15.6		A	HSX	20	1	1	3
9349		HOLL	02	16	1455	N28 W13	02 15.6		A	HSX	20	1	1	3
9349	30318	MWIL	02	16	1600	N28 W13	02 15.6	5	(AP)					
9349		LEAR	02	17	0010	N27 W17	02 15.7		A	HRX	10	1		2
9349		KAND	02	17	0645	N27 W22	02 15.6			HS	1	1	1	4
9349		SVTO	02	17	0735	N28 W23	02 15.5		A	HRX	10	1	1	2
9349		RAMY	02	17	1220	N29 W25	02 15.5		B	BXO	10	1	1	4
9349		HOLL	02	17	1452	N28 W26	02 15.6		A	HSX	10	1	1	3
9349		LEAR	02	18	0012	N27 W32	02 15.5		A	HSX	20	1	1	4
9349		VORO	02	18	0300	N30 W32	02 15.6			AXX	13	1		2
9349		TACH	02	18	0615	N28 W34	02 15.6			AXX	10	1	1	3
9349		SVTO	02	18	0745	N29 W35	02 15.6		A	HAX	10	1	1	3
9349		RAMY	02	18	1210	N28 W37	02 15.6		A	HRX	1	1	1	4
9349		HOLL	02	18	1800	N29 W40	02 15.6		A	AXX	20	1	1	3
9349		VORO	02	19	0010	N28 W43	02 15.6			AXX	15	1		2
9349		LEAR	02	19	0120	N26 W44	02 15.6		A	AXX	1	1		4
9349		SVTO	02	19	0854	N28 W49	02 15.5		A	AXX	10	1	1	2
9349		RAMY	02	19	1208	N29 W49	02 15.7		A	HRX	1	1	1	4
9349		HOLL	02	19	1545	N28 W51	02 15.7		A	AXX	1	1	1	2
9349		VORO	02	19	2253	N28 W55	02 15.6			AXX	19	1		2
9349		SVTO	02	20	0815	N30 W61	02 15.5		A	HRX	20	1	1	2
9349		KAND	02	20	0950	N23 W60	02 15.8			AX	1	1		2
9350A		LEAR	02	13	0105	S17 E50	02 16.8		A	AXX		1		5
9350		TACH	02	11	0710	N20 E78	02 17.3			AXX	30	1	1	3
9350		SVTO	02	11	1125	N18 E78	02 17.4		A	HSX	60	1	3	3
9350		RAMY	02	11	1302	N19 E73	02 17.1		A	HSX	60	1	3	3
9350		HOLL	02	11	1635	N17 E73	02 17.2		A	HSX	60	1	2	3
9350		VORO	02	11	2327	N18 E69	02 17.2			HRX	108	1		2
9350		LEAR	02	12	0150	N18 E68	02 17.2		A	HAX	50	1	2	4
9350		TACH	02	12	0549	N18 E64	02 17.1			HRX	70	1	1	3
9350		SVTO	02	12	0744	N18 E66	02 17.3		A	HAX	40	1	2	2
9350		HOLL	02	12	1755	N17 E54	02 16.8		A	AXX	1	1	1	4
9350		HOLL	02	12	1755	N17 E59	02 17.2		A	HSX	90	2	2	4
9350		VORO	02	12	2314	N18 E56	02 17.2			HRX	106	1		2
9350		LEAR	02	13	0105	N18 E54	02 17.1		A	HSX	40	2	1	5
9350		TACH	02	13	0538	N19 E52	02 17.2			HRX	100	1	1	5
9350		SVTO	02	13	0900	N18 E50	02 17.2		A	HSX	70	2	1	3
9350		RAMY	02	13	1325	N18 E49	02 17.3		A	HSX	70	2	1	3
9350		VORO	02	13	2349	N18 E43	02 17.3			HRX	79	1		2
9350		LEAR	02	14	0014	N18 E42	02 17.2		A	HSX	70	2	1	5
9350		TACH	02	14	0541	N20 E39	02 17.2			HSX	70	1	1	3
9350		SVTO	02	14	0801	N18 E38	02 17.2		A	HSX	70	2	2	3
9350		RAMY	02	14	1437	N18 E35	02 17.3		A	HSX	40	1	2	2
9350		LEAR	02	15	0010	N19 E27	02 17.1		A	HAX	100	2	2	4
9350		SVTO	02	15	1048	N17 E25	02 17.3		A	HSX	50	1	2	3
9350		KAND	02	15	1105	N18 E21	02 17.1			HS	1	1	2	4
9350		RAMY	02	15	1510	N19 E21	02 17.2		A	HSX	50	1	2	2
9350		HOLL	02	15	1530	N18 E21	02 17.2		A	HSX	70	1	2	3
9350		VORO	02	15	2358	N18 E19	02 17.4			HRX	121	1		2

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(Ordered by Central Meridian Passage Date)

FEBRUARY 2001

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
9350		LEAR	02 16 0015	N18	E16	02 17.2		A	HSX	50	1	2	4
9350		SVTO	02 16 0717	N18	E12	02 17.2		A	HSX	70	1	2	2
9350		KAND	02 16 1105	N18	E10	02 17.2			HS		1	2	1
9350		RAMY	02 16 1312	N19	E09	02 17.2		A	HSX	60	1	1	3
9350		HOLL	02 16 1455	N18	E09	02 17.3		B	CSO	60	2	4	3
9350	30321	MWIL	02 16 1600	N18	E09	02 17.3	5	(BP)					
9350		LEAR	02 17 0010	N18	E04	02 17.3		A	HAX	60	1	2	2
9350		KAND	02 17 0645	N18	E00	02 17.3			HA		1	2	4
9350		SVTO	02 17 0735	N18	W01	02 17.2		A	HSX	90	1	3	2
9350		RAMY	02 17 1220	N19	W03	02 17.3		A	HSX	80	1	2	4
9350		HOLL	02 17 1452	N18	W05	02 17.2		A	HSX	70	1	2	3
9350		LEAR	02 18 0012	N18	W11	02 17.2		A	HSX	60	1	2	4
9350		VORO	02 18 0300	N18	W11	02 17.3			HSX	151	1		2
9350		TACH	02 18 0615	N18	W13	02 17.3			HSX	120	1	2	3
9350		SVTO	02 18 0745	N18	W14	02 17.2		A	HSX	80	1	2	3
9350		RAMY	02 18 1210	N18	W17	02 17.2		A	HSX	70	1	2	4
9350		HOLL	02 18 1800	N19	W19	02 17.3		A	HSX	50	1	2	3
9350		VORO	02 19 0010	N18	W23	02 17.2			HSX	86	1		2
9350		LEAR	02 19 0120	N17	W25	02 17.1		A	HSX	50	1	2	4
9350		SVTO	02 19 0854	N18	W29	02 17.2		A	HSX	40	1	2	2
9350		RAMY	02 19 1208	N19	W30	02 17.2		A	HSX	50	1	1	4
9350		HOLL	02 19 1545	N18	W32	02 17.2		A	HAX	70	1	2	2
9350		VORO	02 19 2253	N18	W36	02 17.2			HAX	80	1		2
9350		SVTO	02 20 0815	N21	W42	02 17.1		A	HSX	60	1	2	2
9350		KAND	02 20 0950	N17	W42	02 17.2			HS		1	2	2
9350		HOLL	02 20 1450	N18	W45	02 17.2		A	HSX	50	1	2	2
9350	30321	MWIL	02 20 1545	N18	W47	02 17.1	4	(AP)					
9350		RAMY	02 20 1729	N19	W46	02 17.2		A	HSX	60	1	2	3
9350		VORO	02 21 0015	N18	W50	02 17.2			HAX	64	1		2
9350		LEAR	02 21 0114	N18	W51	02 17.2		A	HSX	70	1	1	3
9350		KAND	02 21 0900	N17	W54	02 17.3			HS		1	1	2
9350		SVTO	02 21 0957	N21	W54	02 17.3		A	HSX	40	1	1	3
9350		RAMY	02 21 1515	N19	W58	02 17.2		A	HSX	40	1	2	4
9350		HOLL	02 21 1605	N18	W60	02 17.1		A	HSX	40	1	2	2
9350	30321	MWIL	02 21 2030	N18	W61	02 17.2	4	(AP)					
9350		LEAR	02 22 0026	N18	W65	02 17.1		A	HSX	50	1	1	5
9350		SVTO	02 22 0700	N17	W67	02 17.2		A	HSX	50	1	1	2
9350		KAND	02 22 1115	N17	W73	02 16.9			HS		1	2	2
9350		RAMY	02 22 1322	N20	W70	02 17.2		A	HSX	60	1	2	3
9350		HOLL	02 22 1456	N18	W73	02 17.1		A	HSX	40	1	2	4
9350	30321	MWIL	02 22 1530	N18	W72	02 17.2	4	(AP)					
9353		SVTO	02 16 0717	S24	E26	02 18.3		A	HRX	10	1	1	2
9353		KAND	02 16 1105	S23	E25	02 18.4			BXO		4	3	1
9353		RAMY	02 16 1312	S23	E22	02 18.2		B	CSO	20	6	3	3
9353		HOLL	02 16 1455	S23	E21	02 18.2		A	HAX	10	2	2	3
9353	30322	MWIL	02 16 1600	S23	E22	02 18.4	4	(BP)					
9353		LEAR	02 17 0010	S23	E16	02 18.2		A	AXX		1		2
9353		KAND	02 17 0645	S23	E13	02 18.3			BXO		6	5	4
9353		SVTO	02 17 0735	S23	E12	02 18.2		B	CSO	20	3	2	2
9353		RAMY	02 17 1220	S22	E09	02 18.2		B	CSO	10	7	4	4
9353		HOLL	02 17 1452	S23	E08	02 18.2		B	BXO	20	6	4	3
9353		LEAR	02 18 0012	S22	E03	02 18.2		B	CSO	30	5	5	4
9353		VORO	02 18 0300	S23	W00	02 18.1			AXX	15	2		2
9353		TACH	02 18 0615	S22	W00	02 18.3			BRO	12	3	3	3
9353		SVTO	02 18 0745	S23	W01	02 18.2		B	DRO	40	10	6	3
9353		RAMY	02 18 1210	S22	W04	02 18.2		B	CSO	10	6	5	4
9353		HOLL	02 18 1800	S22	W07	02 18.2		B	CSO	40	2	5	3
9353		VORO	02 19 0010	S23	W13	02 18.0			AXX	7	1		2
9353		LEAR	02 19 0120	S22	W12	02 18.1		B	BXO	10	5	5	4
9353		SVTO	02 19 0854	S23	W16	02 18.1		B	BXO	20	4	6	2
9353		RAMY	02 19 1208	S22	W18	02 18.1		B	CSO	10	5	5	4
9353		HOLL	02 19 1545	S23	W20	02 18.1		B	BXO	10	4	4	2
9353		VORO	02 19 2253	S23	W23	02 18.2			BXO	25	6	3	2
9353		SVTO	02 20 0815	S22	W28	02 18.2		B	DAO	30	6	6	2
9353		KAND	02 20 0950	S23	W28	02 18.2			CAO		6	4	2
9353		HOLL	02 20 1450	S23	W32	02 18.1		B	DAO	50	2	4	2
9353	30322	MWIL	02 20 1545	S23	W33	02 18.1	4	(B)					
9353		RAMY	02 20 1729	S22	W33	02 18.2		B	CSO	30	4	6	3

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FEBRUARY 2001

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day											(UT)
9353		VORO	02	21	0015	S23 W37	02 18.1			CRO	35	2	5	2
9353		LEAR	02	21	0114	S22 W38	02 18.1		B	DSO	20	4	4	3
9353		KAND	02	21	0900	S23 W41	02 18.2			BXO		3	6	2
9353		KAND	02	21	0900	S28 W42	02 18.1			BXO		3	3	2
9353		SVTO	02	21	0957	S23 W43	02 18.1		B	DAO	40	4	8	3
9353		RAMY	02	21	1515	S24 W45	02 18.1		B	DSO	30	3	6	4
9353		HOLL	02	21	1605	S25 W46	02 18.1		B	CXO	20	3	7	2
9353	30322	MWIL	02	21	2030	S23 W48	02 18.1	4	(B)					
9353	30330	MWIL	02	21	2030	S27 W47	02 18.2	4	(AF)					
9353		LEAR	02	22	0026	S24 W50	02 18.1		B	BXO	10	4	8	5
9353		SVTO	02	22	0700	S25 W54	02 18.1		B	BXO	30	2	7	2
9353		RAMY	02	22	1322	S21 W61	02 17.9		B	CSO	20	2	2	3
9353		HOLL	02	22	1456	S24 W63	02 17.7		B	BXO		2	3	4
9353	30322	MWIL	02	22	1530	S22 W61	02 17.9	4	(AP)					
9353		RAMY	02	23	1220	S23 W74	02 17.8		B	CSO	10	2	3	3
9353		SVTO	02	24	1007	S24 W87	02 17.7		A	AXX	10	1	1	2
9356		LEAR	02	13	0105	S14 E69	02 18.2		A	AXX		1		5
9356		SVTO	02	13	0900	S15 E64	02 18.2		A	AXX		1		3
9356		LEAR	02	14	0014	S15 E55	02 18.2		A	AXX		1		5
9356		SVTO	02	18	0745	S13 W01	02 18.2		B	CAO	20	4	3	3
9356		RAMY	02	18	1210	S13 W04	02 18.2		B	BXO	10	3	2	4
9356		HOLL	02	18	1800	S12 W07	02 18.2		B	BXO	20	4	3	3
9356		VORO	02	19	0010	S13 W10	02 18.2			AXX	7	3		2
9356		LEAR	02	19	0120	S13 W11	02 18.2		B	BXO	20	5	1	4
9356		RAMY	02	21	1515	S14 W48	02 18.0		A	AXX	10	1	1	4
9356		HOLL	02	21	1605	S16 W49	02 17.9		A	AXX		1		2
9356	30329	MWIL	02	21	2030	S15 W51	02 18.0	4	(AP)					
9356		LEAR	02	22	0026	S15 W54	02 17.9		A	AXX	20	2	1	5
9356		HOLL	02	23	1845	S14 W79	02 17.8		A	AXX	10	1	1	2
9356A		LEAR	02	16	0015	N13 E42	02 19.2			AXX		1		4
9354		SVTO	02	16	0717	S09 E43	02 19.5		A	AXX	10	2	2	2
9354		KAND	02	16	1105	S08 E40	02 19.5			BXO		2	3	1
9354		RAMY	02	16	1312	S10 E39	02 19.5		B	BXO		2	2	3
9354		HOLL	02	16	1455	S09 E39	02 19.5		A	AXX		1		3
9354	30323	MWIL	02	16	1600	S09 E38	02 19.5	4	(B)					
9354		KAND	02	17	0645	S09 E29	02 19.4			CSI		10	3	4
9354		SVTO	02	17	0735	S09 E29	02 19.5		B	DAO	40	6	4	2
9354		RAMY	02	17	1220	S08 E26	02 19.5		B	DAO	50	10	4	4
9354		HOLL	02	17	1452	S08 E24	02 19.4		B	DAO	60	6	4	3
9354		LEAR	02	18	0012	S09 E19	02 19.4		B	DAO	120	14	8	4
9354		VORO	02	18	0300	S09 E18	02 19.5			DRI	164	4	5	2
9354		TACH	02	18	0615	S08 E16	02 19.5			CAO	182	5	6	3
9354		SVTO	02	18	0745	S09 E16	02 19.5		B	DAO	120	10	7	3
9354		RAMY	02	18	1210	S09 E13	02 19.5		B	DAO	90	15	6	4
9354		HOLL	02	18	1800	S09 E10	02 19.5		B	DAI	130	16	8	3
9354		VORO	02	19	0010	S09 E07	02 19.5			DAI	143	12	6	2
9354		LEAR	02	19	0120	S09 E05	02 19.4		B	DAI	90	15	7	4
9354		SVTO	02	19	0854	S09 E02	02 19.5		B	DAO	200	13	7	2
9354		RAMY	02	19	1208	S09 E00	02 19.5		B	DAI	180	21	7	4
9354		HOLL	02	19	1545	S11 W03	02 19.4		B	DAI	160	16	8	2
9354		VORO	02	19	2253	S09 W06	02 19.5			DAI	235	22	5	2
9354		SVTO	02	20	0815	S08 W12	02 19.4		B	DAO	180	17	10	2
9354		KAND	02	20	0950	S09 W12	02 19.5			DAO		29	9	2
9354		HOLL	02	20	1450	S09 W15	02 19.5		B	DAO	150	16	7	2
9354	30323	MWIL	02	20	1545	S10 W16	02 19.4	5	(BG)					
9354		RAMY	02	20	1729	S08 W16	02 19.5		B	DAO	130	21	9	3
9354		VORO	02	21	0015	S08 W20	02 19.5			DAI	250	18	6	2
9354		LEAR	02	21	0114	S08 W20	02 19.5		B	DAO	20	18	8	3
9354		KAND	02	21	0900	S09 W25	02 19.5			DAC		26	9	2
9354		SVTO	02	21	0957	S07 W25	02 19.5		BG	DAI	120	14	8	3
9354		RAMY	02	21	1515	S08 W28	02 19.5		B	DAI	220	10	9	4
9354		HOLL	02	21	1605	S10 W29	02 19.5		B	DAO	190	26	8	2
9354	30323	MWIL	02	21	2030	S09 W31	02 19.5	5	(D)					
9354		LEAR	02	22	0026	S09 W32	02 19.6		B	DAO	140	13	7	5
9354		SVTO	02	22	0700	S09 W36	02 19.6		B	DAO	240	12	9	2
9354		KAND	02	22	1115	S10 W39	02 19.5			DAO		14	8	2

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(Ordered by Central Meridian Passage Date)

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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
9354		RAMY	02 22 1322	S08	W41	02 19.5		B	DAO	220	20	8	3
9354		HOLL	02 22 1456	S10	W42	02 19.5		B	DAO	240	24	8	4
9354	30323	MWIL	02 22 1530	S09	W41	02 19.6	5	(BG)					
9354		VORO	02 22 2255	S09	W45	02 19.6			DAI	372	13	5	3
9354		SVTO	02 23 0735	S09	W51	02 19.5		B	EAO	190	24	15	3
9354		LEAR	02 23 0858	S10	W50	02 19.6		B	DAI	210	17	7	4
9354		KAND	02 23 0940	S09	W52	02 19.5			DAO		12	8	4
9354		RAMY	02 23 1220	S08	W54	02 19.5		B	DAO	320	17	10	3
9354		HOLL	02 23 1845	S09	W57	02 19.5		B	DAO	310	13	8	2
9354		LEAR	02 24 0020	S09	W58	02 19.7		B	DAO	290	17	9	5
9354		VORO	02 24 0145	S09	W61	02 19.5			DAO	540	3	7	1
9354		TACH	02 24 0635	S09	W62	02 19.6			DAI	115	4	6	3
9354		SVTO	02 24 1007	S09	W65	02 19.5		B	DAO	220	14	8	2
9354		KAND	02 24 1150	S09	W65	02 19.6			DAI		15	9	3
9354		HOLL	02 24 1446	S09	W68	02 19.5		B	DAO	310	10	8	2
9354		VORO	02 25 0156	S08	W74	02 19.5			DAO	284	2	6	2
9354		LEAR	02 25 0205	S09	W71	02 19.7		B	DAO	100	4	9	2
9354		TACH	02 25 0818	S08	W77	02 19.6			DAO	120	2	7	2
9354		SVTO	02 25 0830	S07	W76	02 19.7		B	EAO	270	9	11	2
9354		KAND	02 25 0910	S09	W80	02 19.4			DAO		2	10	3
9354		HOLL	02 25 1530	S11	W79	02 19.7		B	EAO	300	3	12	3
9354		RAMY	02 25 1555	S08	W78	02 19.8		A	HSX	120	1	3	3
9354		VORO	02 25 2248	S09	W82	02 19.8			HAX	265	1	1	2
9354		LEAR	02 26 0005	S09	W84	02 19.7		A	HSX	120	1	2	4
9352		LEAR	02 15 0010	S22	E76	02 20.8		A	AXX	10	1		4
9352		SVTO	02 15 1048	S25	E68	02 20.7		A	HSX	20	1	1	3
9352		KAND	02 15 1105	S20	E68	02 20.7			AX		1		4
9352		RAMY	02 15 1510	S22	E66	02 20.7		A	AXX		1	1	2
9352		HOLL	02 15 1530	S22	E69	02 20.9		B	BXO	30	2	4	3
9352		LEAR	02 16 0015	S22	E63	02 20.8		B	BXO	10	2	6	4
9352		SVTO	02 16 0717	S23	E62	02 21.1		B	CAO	20	2	7	2
9352		RAMY	02 16 1312	S23	E53	02 20.6		B	CSO	20	3	1	3
9352		HOLL	02 16 1455	S22	E56	02 20.9		B	BXO	10	1	6	3
9352		LEAR	02 17 0010	S22	E50	02 20.8		B	BXX	10	2	4	2
9352		KAND	02 17 0645	S22	E50	02 21.1			BXO		3	9	4
9352		SVTO	02 17 0735	S22	E43	02 20.6		A	AXX		1		2
9352		RAMY	02 17 1220	S21	E41	02 20.6		B	CRO	10	3	3	4
9352		HOLL	02 17 1452	S22	E41	02 20.8		B	BXO	10	3	3	3
9352		LEAR	02 18 0012	S25	E39	02 21.0		B	CSO	30	8	5	4
9352		SVTO	02 18 0745	S21	E33	02 20.8		B	BXO	10	4	4	3
9352		VORO	02 19 0010	S22	E28	02 21.1			AXX	4	1		2
9352		LEAR	02 19 0120	S21	E24	02 20.9		B	BXO	10	3	7	4
9352		SVTO	02 19 0854	S22	E24	02 21.2		B	BXO	20	3	2	2
9352		RAMY	02 19 1208	S21	E21	02 21.1		B	BXO		4	2	4
9352		VORO	02 19 2253	S21	E16	02 21.2			AXX	7	1		2
9352		SVTO	02 20 0815	S22	E09	02 21.0		B	CAO	20	2	2	2
9352		KAND	02 20 0950	S21	E12	02 21.3			AX		1		2
9352		RAMY	02 20 1729	S21	E06	02 21.2		A	AXX		1		3
9352		RAMY	02 23 1220	S21	W29	02 21.3		A	AXX		2	1	3
9357	30324	MWIL	02 16 1600	S22	E56	02 21.0	4	(B)					
9357		RAMY	02 17 1220	S26	E54	02 21.7		A	AXX		2	1	4
9357		HOLL	02 17 1452	S26	E54	02 21.8		B	BXO	10	3	3	3
9357		VORO	02 18 0300	S26	E46	02 21.7			AXX	22	1		2
9357		TACH	02 18 0615	S25	E43	02 21.6			AXX	11	2	1	3
9357		SVTO	02 18 0745	S27	E47	02 22.0		B	DAO	80	9	7	3
9357		RAMY	02 18 1210	S25	E39	02 21.5		B	BXO	10	5	3	4
9357		HOLL	02 18 1800	S26	E38	02 21.7		A	HSX	50	3	2	3
9357		VORO	02 19 0010	S26	E33	02 21.6			AXX	29	2		2
9357		LEAR	02 19 0120	S25	E31	02 21.4		B	BXO	20	2	2	4
9357		SVTO	02 19 0854	S24	E29	02 21.6		B	BXO	30	3	7	2
9357		RAMY	02 19 1208	S26	E26	02 21.5		B	CRO	10	3	2	4
9357		HOLL	02 19 1545	S25	E21	02 21.3		B	CAO	30	6	6	2
9357		VORO	02 19 2253	S26	E22	02 21.7			BXI	16	5	6	2
9357		SVTO	02 20 0815	S26	E15	02 21.5		B	DAO	30	2	5	2
9357		KAND	02 20 0950	S25	E16	02 21.6			BXO		4	6	2
9357		HOLL	02 20 1450	S24	E08	02 21.2		B	CAO	20	2	3	2
9357	30324	MWIL	02 20 1545	S23	E04	02 21.0	4	(B)					

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(Ordered by Central Meridian Passage Date)

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time			Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual	
			Mo	Day	(UT)											
9357	30326	MWIL	02	20	1545	S25	E12	02 21.6	4	(BP)						
9357		RAMY	02	20	1729	S26	E09	02 21.4		B	CSO	20	2	2	3	
9357		VORO	02	21	0015	S26	E05	02 21.4			AXX	14	1		2	
9357		LEAR	02	21	0114	S26	E07	02 21.6		B	CSO	10	10	7	3	
9357		KAND	02	21	0900	S25	E01	02 21.4			AX		3	3	2	
9357		SVTO	02	21	0957	S26	E02	02 21.6		B	DSO	50	5	8	3	
9357		RAMY	02	21	1515	S26	W04	02 21.3		B	CSO	10	2	3	4	
9357		HOLL	02	21	1605	S27	W03	02 21.4		B	CXO	10	6	3	2	
9357		30324	MWIL	02	21	2030	S25	W06	02 21.4	4	(AP)					
9357			LEAR	02	22	0026	S26	W08	02 21.4		A	AXX	10	4	2	5
9357	SVTO		02	22	0700	S25	W10	02 21.5		B	BXO	20	3	4	2	
9357	KAND		02	22	1115	S25	W14	02 21.4			AX		1	1	2	
9357	30324	RAMY	02	22	1322	S25	W16	02 21.3		B	BXO	10	3	5	3	
9357		HOLL	02	22	1456	S26	W15	02 21.4		B	BXO	10	3	5	4	
9357		MWIL	02	22	1530	S25	W15	02 21.5	4	(BP)						
9357		VORO	02	22	2255	S26	W19	02 21.5			BXO	11	2	5	3	
9357		SVTO	02	23	0735	S25	W25	02 21.4		B	DRO	40	7	8	3	
9357		LEAR	02	23	0858	S26	W24	02 21.5		B	BXO	20	7	6	4	
9357		KAND	02	23	0940	S26	W26	02 21.4			BXO		4	5	4	
9357		RAMY	02	23	1220	S24	W27	02 21.4		B	CRO	10	10	8	3	
9357		HOLL	02	23	1845	S25	W31	02 21.4		B	BXO	10	6	6	2	
9357		LEAR	02	24	0020	S25	W33	02 21.4		B	CRO	200	5	6	5	
9357		TACH	02	24	0635	S26	W36	02 21.5			BRO	11	2	6	3	
9357		SVTO	02	24	1007	S25	W38	02 21.5		B	DRO	20	2	5	2	
9357		KAND	02	24	1150	S27	W37	02 21.6			AX		3	1	3	
9357		HOLL	02	24	1446	S25	W41	02 21.4		B	BXO	20	7	6	2	
9357		VORO	02	25	0156	S24	W49	02 21.3			AXX	17	1		2	
9357		LEAR	02	25	0205	S25	W45	02 21.6		B	DSO	30	3	7	2	
9357		TACH	02	25	0818	S24	W51	02 21.4			AXX	10	1	1	2	
9357		SVTO	02	25	0830	S25	W49	02 21.5		B	CRO	30	9	10	2	
9357		KAND	02	25	0910	S25	W51	02 21.4			CSO		7	6	3	
9357		HOLL	02	25	1530	S26	W53	02 21.5		B	CAO	60	11	6	3	
9357		RAMY	02	25	1555	S24	W54	02 21.5		B	DSO	90	7	6	3	
9357		VORO	02	25	2248	S25	W60	02 21.3			BXO	41	2	4	2	
9357		LEAR	02	26	0005	S23	W57	02 21.6		B	DSO	60	9	8	4	
9357		TACH	02	26	0542	S25	W61	02 21.5			BRO	15	2	6	3	
9357		SVTO	02	26	0725	S26	W64	02 21.3		B	DAO	60	7	7	3	
9355		KAND	02	17	0645	N19	E58	02 21.7			BXO		2	1	4	
9355		SVTO	02	17	0735	N19	E57	02 21.7		A	HRX	20	1	1	2	
9355		RAMY	02	17	1220	N20	E54	02 21.6		A	HRX	10	1	1	4	
9355		HOLL	02	17	1452	N20	E53	02 21.7		A	AXX	10	2	1	3	
9355		LEAR	02	18	0012	N19	E46	02 21.5		A	HSX	20	1	1	4	
9355		VORO	02	18	0300	N20	E45	02 21.6			AXX	16	1		2	
9355		TACH	02	18	0615	N20	E41	02 21.4			AXX	21	2	1	3	
9355		SVTO	02	18	0745	N19	E44	02 21.7		B	DRO	20	4	4	3	
9355		RAMY	02	18	1210	N20	E41	02 21.6		B	CRO	10	5	3	4	
9355		HOLL	02	18	1800	N20	E38	02 21.6		B	CSO	50	4	4	3	
9355		VORO	02	19	0010	N20	E34	02 21.6			HRX	22	2		2	
9355		LEAR	02	19	0120	N20	E32	02 21.5		B	BXO	10	6	5	4	
9355		SVTO	02	19	0854	N21	E27	02 21.4		B	BXO	20	4	5	2	
9355		RAMY	02	19	1208	N20	E27	02 21.6		A	AXX		3	1	4	
9355		HOLL	02	19	1545	N20	E26	02 21.6		A	AXX	10	3	2	2	
9358	30325	MWIL	02	16	1600	S06	E74	02 22.2	2	(AP)						
9358		KAND	02	17	0645	S06	E68	02 22.4			AX		1		4	
9358		RAMY	02	18	1210	S08	E51	02 22.3		B	CRO		2	2	4	
9358		HOLL	02	18	1800	S08	E50	02 22.5		B	BXO	20	3	3	3	
9358		VORO	02	19	0010	S08	E47	02 22.5			BXI	36	4	4	2	
9358		LEAR	02	19	0120	S08	E44	02 22.3		B	BXO	10	7	4	4	
9358		SVTO	02	19	0854	S07	E41	02 22.4		B	CRO	60	4	4	2	
9358		RAMY	02	19	1208	S08	E39	02 22.4		B	DRO	30	6	4	4	
9358		HOLL	02	19	1545	S08	E36	02 22.3		B	DAO	80	5	4	2	
9358		VORO	02	19	2253	S08	E34	02 22.5			DAI	61	7	4	2	
9358		SVTO	02	20	0815	S08	E28	02 22.4		B	DAO	50	12	7	2	
9358		KAND	02	20	0950	S07	E28	02 22.5			CAO		6	6	2	
9358		HOLL	02	20	1450	S08	E24	02 22.4		B	DAO	70	7	7	2	
9358		30325	MWIL	02	20	1545	S08	E24	02 22.4	5	(BP)					
9358			RAMY	02	20	1729	S08	E23	02 22.4		B	DSO	40	9	7	3

SUNSPOT GROUPS
(Ordered by Central Meridian Passage Date)

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time (UT)		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
9358		VORO	02 21	0015	S07	E20	02 22.5			BXO	33	5	5	2
9358		LEAR	02 21	0114	S08	E18	02 22.4		B	DSO	40	8	6	3
9358		KAND	02 21	0900	S07	E16	02 22.6			BXO		7	6	2
9358		SVTO	02 21	0957	S08	E14	02 22.5		B	DSO	40	9	7	3
9358		RAMY	02 21	1515	S08	E12	02 22.5		B	DSO	60	6	6	4
9358		HOLL	02 21	1605	S08	E10	02 22.4		B	CSO	30	15	8	2
9358	30325	MWIL	02 21	2030	S07	E09	02 22.5	4	(B)					
9358		LEAR	02 22	0026	S08	E08	02 22.6		B	BXO		3	3	5
9358		SVTO	02 22	0700	S08	E04	02 22.6		B	BXO	10	6	4	2
9358		RAMY	02 22	1322	S08	W02	02 22.4		B	DSO	30	7	7	3
9358		HOLL	02 22	1456	S08	W02	02 22.5		B	CSO	20	6	5	4
9358	30325	MWIL	02 22	1530	S08	W01	02 22.6	4	(B)					
9358		SVTO	02 23	0735	S02	W15	02 22.2		A	AXX	10	2	1	3
9358		RAMY	02 23	1220	S06	W15	02 22.4		B	BXO	10	6	8	3
9358		SVTO	02 24	1007	S07	W27	02 22.4		A	HSX	10	1	1	2
9358		VORO	02 25	0156	S11	W35	02 22.4			BXO	20	2	2	2
9358		SVTO	02 25	0830	S07	W37	02 22.6		A	AXX	10	1	1	2
9358		HOLL	02 25	1530	S12	W39	02 22.7		A	HAX	10	1	1	3
9358		RAMY	02 25	1555	S10	W38	02 22.8		A	AXX	10	1		3
9358		LEAR	02 26	0005	S11	W46	02 22.5		B	BXO	10	3	4	4
9358		TACH	02 26	0542	S11	W47	02 22.7			AAO	231	3	5	3
9358		SVTO	02 26	0725	S11	W51	02 22.5		B	CRO	30	4	5	3
9358		VORO	02 26	2317	S11	W62	02 22.3			HAX	39	1		2
9358		LEAR	02 27	0004	S10	W59	02 22.6		B	CRO	20	4	5	4
9358		TACH	02 27	0536	S11	W64	02 22.4			HSX	35	1	1	3
9358		SVTO	02 27	0722	S10	W67	02 22.3		B	CAO	20	2	1	3
9358		KAND	02 27	0815	S10	W67	02 22.3			AX		1	1	3
9358		RAMY	02 27	1242	S10	W70	02 22.3		A	HSX	10	3	2	5
9358		VORO	02 27	2318	S10	W77	02 22.2			AXX	29	1		2
9358		LEAR	02 28	0020	S10	W73	02 22.5		A	HRX	20	1		4
9361		HOLL	02 22	1456	S17	E11	02 23.4		B	BXO		2	3	4
9361	30331	MWIL	02 22	1530	S16	E10	02 23.4	4	(B)					
9361		SVTO	02 23	0735	S16	E02	02 23.5		B	CRO	20	3	2	3
9361		LEAR	02 23	0858	S17	E03	02 23.6		A	AXX		1		4
9361		RAMY	02 23	1220	S16	E00	02 23.5		B	BXO		3	2	3
9361		SVTO	02 24	1007	S16	W11	02 23.6		A	AXX	10	1	1	2
9361		SVTO	02 25	0830	S15	W28	02 23.2		A	AXX	10	1	1	2
9361A		RAMY	02 23	1220	S08	E01	02 23.6		B	CRO	10	4	2	3
9361B		LEAR	02 28	0020	N07	W53	02 24.0		B	CRO	20	2	1	4
9361C		LEAR	02 24	0020	S09	E09	02 24.7		A	AXX		1		5
9360A		VORO	02 22	2255	N09	E41	02 26.0			AXX	14	1		3
9360		HOLL	02 20	1450	S11	E76	02 26.3		A	AXX	10	1	1	2
9360	30327	MWIL	02 20	1545	S10	E74	02 26.2	4	(AP)					
9360		RAMY	02 20	1729	S10	E72	02 26.1		B	CSO	10	2	1	3
9360		VORO	02 21	0015	S09	E71	02 26.3			HRX	24	1		2
9360		LEAR	02 21	0114	S10	E69	02 26.2		A	HSX	20	1	1	3
9360		KAND	02 21	0900	S09	E66	02 26.3			HR		1	1	2
9360		SVTO	02 21	0957	S13	E66	02 26.4		A	HSX	40	1	1	3
9360		RAMY	02 21	1515	S11	E61	02 26.2		A	HSX	10	1	1	4
9360		HOLL	02 21	1605	S09	E61	02 26.2		A	HSX	20	1	1	2
9360	30327	MWIL	02 21	2030	S10	E59	02 26.3	4	(AP)					
9360		LEAR	02 22	0026	S10	E57	02 26.3		A	HSX	30	1	1	5
9360		SVTO	02 22	0700	S09	E54	02 26.3		A	HSX	50	1	1	2
9360		KAND	02 22	1115	S09	E51	02 26.3			HS		1	2	2
9360		RAMY	02 22	1322	S11	E49	02 26.2		A	HSX	30	1	1	3
9360		HOLL	02 22	1456	S10	E48	02 26.2		A	HSX	20	1	1	4
9360	30327	MWIL	02 22	1530	S09	E52	02 26.5	5	(BP)					
9360		VORO	02 22	2255	S10	E44	02 26.3			HAX	53	1		3
9360		SVTO	02 23	0735	S08	E44	02 26.6		B	ERO	40	2	13	3
9360		LEAR	02 23	0858	S10	E38	02 26.2		A	HRX	10	1		4
9360		KAND	02 23	0940	S10	E40	02 26.4			CSO		2	9	4
9360		RAMY	02 23	1220	S11	E36	02 26.2		A	HSX	40	1	1	3
9360		HOLL	02 23	1845	S11	E32	02 26.2		A	HSX	40	1	2	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day											(UT)
9360		LEAR	02 24	0020	S10	E29	02 26.2		A	HRX	20	1	1	5
9360		VORO	02 24	0145	S11	E29	02 26.2			HRX	59	1		1
9360		TACH	02 24	0635	S09	E25	02 26.1			AXX	30	1	1	3
9360		SVTO	02 24	1007	S11	E25	02 26.3		A	HSX	30	1	2	2
9360		KAND	02 24	1150	S10	E22	02 26.1			HS		1	1	3
9360		HOLL	02 24	1446	S11	E22	02 26.3		A	HSX	20	1	1	2
9360		VORO	02 25	0156	S11	E16	02 26.3			HSX	32	1		2
9360		LEAR	02 25	0205	S10	E16	02 26.3		B	CSO	20	2	3	2
9360		TACH	02 25	0818	S10	E12	02 26.2			AXX	30	1	1	2
9360		SVTO	02 25	0830	S11	E13	02 26.3		B	CSO	20	2	3	2
9360		KAND	02 25	0910	S11	E11	02 26.2			CSO		2	2	3
9360		HOLL	02 25	1530	S11	E09	02 26.3		B	CAO	20	4	3	3
9360		RAMY	02 25	1555	S11	E07	02 26.2		A	HSX	20	1	1	3
9360		VORO	02 25	2248	S11	E04	02 26.2			AXX	17	1		2
9360		LEAR	02 26	0005	S11	E04	02 26.3		A	HSX	10	2	2	4
9360		TACH	02 26	0542	S10	E02	02 26.4			ARO	38	3	3	3
9360		SVTO	02 26	0725	S11	W01	02 26.2		B	CSO	10	2	2	3
9360		VORO	02 26	2317	S11	W10	02 26.2			AXX	18	1		2
9360		LEAR	02 27	0004	S10	W11	02 26.2		A	HRX	10	1	1	4
9360		TACH	02 27	0536	S10	W13	02 26.2			AXX	36	2	1	3
9360		SVTO	02 27	0722	S11	W14	02 26.2		B	CRO	10	2	2	3
9360		KAND	02 27	0815	S12	W15	02 26.2			BXO	3	3	3	3
9360		RAMY	02 27	1242	S10	W17	02 26.2		B	CSO	10	3	2	5
9360		VORO	02 27	2318	S11	W24	02 26.2			AXX	11	1		2
9360		LEAR	02 28	0020	S11	W24	02 26.2		A	HRX	20	1		4
9360		TACH	02 28	0623	S10	W27	02 26.2			AXX	20	1	1	3
9360		KAND	02 28	0755	S11	W29	02 26.1			AX		1	1	3
9360		RAMY	02 28	1327	S10	W31	02 26.2		B	CRO	10	2	2	4
9360		HOLL	02 28	2142	S09	W37	02 26.1		A	HSX	20	1	1	1
9360		VORO	02 28	2301	S11	W37	02 26.2			AXX	14	1		2
9360		LEAR	03 01	0210	S11	W39	02 27.2		A	HSX	10	1	1	4
9360		TACH	03 01	0640	S11	W40	02 27.4			AXX	20	1	1	3
9360		KAND	03 01	0910	S11	W43	02 27.2			AX		1	1	4
9360		RAMY	03 01	1250	S10	W45	02 27.2		A	AXX	10	1		4
9360		VORO	03 01	2258	S10	W51	02 27.2			AXX	12	2		3
9360		LEAR	03 02	0015	S11	W50	02 27.3		A	HRX	20	1		2
9359		KAND	02 20	0950	N12	E88	02 27.0			HA		1	1	2
9359		HOLL	02 20	1450	N10	E78	02 26.5		A	HSX	90	1	2	2
9359	30328	MWIL	02 20	1545	N13	E80	02 26.7	4	(AP)					
9359		RAMY	02 20	1729	N10	E78	02 26.6		B	CSO	80	3	2	3
9359		VORO	02 21	0015	N12	E77	02 26.8			DAO	256	2	1	2
9359		LEAR	02 21	0114	N12	E73	02 26.5		B	DSO	90	6	7	3
9359		KAND	02 21	0900	N13	E71	02 26.7			CSO		3	4	2
9359		SVTO	02 21	0957	N08	E71	02 26.7		B	DSO	90	2	4	3
9359		RAMY	02 21	1515	N11	E69	02 26.8		B	DAO	130	4	7	4
9359		HOLL	02 21	1605	N13	E65	02 26.6		B	DAO	130	10	9	2
9359	30328	MWIL	02 21	2030	N12	E65	02 26.7	4	(BP)					
9359		LEAR	02 22	0026	N12	E63	02 26.8		B	DAO	180	11	9	5
9359		SVTO	02 22	0700	N13	E61	02 26.9		B	DAO	280	6	8	2
9359		KAND	02 22	1115	N13	E55	02 26.6			CSO		6	6	2
9359		RAMY	02 22	1322	N10	E56	02 26.8		B	DAO	180	11	8	3
9359		HOLL	02 22	1456	N13	E58	02 27.0		B	DAO	190	11	8	4
9359	30328	MWIL	02 22	1530	N12	E54	02 26.7	5	(BP)					
9359		VORO	02 22	2255	N12	E51	02 26.8			DAI	288	9	5	3
9359		SVTO	02 23	0735	N12	E43	02 26.5		B	FAO	140	19	16	3
9359		LEAR	02 23	0858	N13	E43	02 26.6		B	DAO	200	12	8	4
9359		KAND	02 23	0940	N12	E42	02 26.6			DAO		5	8	2
9359		RAMY	02 23	1220	N11	E38	02 26.4		B	EAO	200	15	15	3
9359		HOLL	02 23	1845	N11	E38	02 26.6		B	DAO	260	12	8	2
9359		LEAR	02 24	0020	N13	E35	02 26.6		B	EAO	250	17	11	5
9359		VORO	02 24	0145	N13	E35	02 26.7			CAI	293	4	5	1
9359		TACH	02 24	0635	N11	E30	02 26.5			CAI	258	7	3	3
9359		SVTO	02 24	1007	N14	E32	02 26.8		B	EAO	220	13	11	2
9359		KAND	02 24	1150	N13	E28	02 26.6			DSO		10	9	3
9359		HOLL	02 24	1446	N14	E28	02 26.7		B	DAO	240	18	9	2
9359		VORO	02 25	0156	N12	E22	02 26.7			DAI	207	4	6	2
9359		LEAR	02 25	0205	N13	E21	02 26.7		B	DAO	110	8	7	2
9359		TACH	02 25	0818	N12	E19	02 26.8			CAI	183	8	6	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day											(UT)
9359		SVTO	02	25	0830	N14 E18	02 26.7		B	DAO	180	11	9	2
9359		KAND	02	25	0910	N12 E16	02 26.6			DAO		10	9	3
9359		HOLL	02	25	1530	N12 E14	02 26.7		B	DAI	200	36	10	3
9359		RAMY	02	25	1555	N12 E13	02 26.6		B	EAI	180	25	11	3
9359		VORO	02	25	2248	N12 E10	02 26.7			DAI	268	16	6	2
9359		LEAR	02	26	0005	N12 E09	02 26.7		B	DSO	160	29	10	4
9359		TACH	02	26	0542	N11 E07	02 26.8			CAI	8	18	5	3
9359		SVTO	02	26	0725	N11 E04	02 26.6		B	DAO	160	24	9	3
9359		VORO	02	26	2317	N12 W04	02 26.7			CAI	198	17	8	2
9359		LEAR	02	27	0004	N12 W05	02 26.6		B	DAI	140	27	9	4
9359		TACH	02	27	0536	N12 W08	02 26.6			CAO	237	19	8	3
9359		SVTO	02	27	0722	N13 W08	02 26.7		B	DAI	120	23	10	3
9359		KAND	02	27	0815	N13 W10	02 26.6			CAO		15	9	3
9359		RAMY	02	27	1242	N13 W13	02 26.5		B	EAI	160	41	12	5
9359		VORO	02	27	2318	N13 W18	02 26.6			CAI	184	11	6	2
9359		LEAR	02	28	0020	N14 W17	02 26.7		B	EAI	140	17	11	4
9359		TACH	02	28	0623	N13 W22	02 26.6			CAI	194	16	8	3
9359		KAND	02	28	0755	N12 W25	02 26.4			CAI		21	9	3
9359		RAMY	02	28	1327	N12 W26	02 26.6		B	DAI	90	24	7	4
9359		HOLL	02	28	2142	N14 W31	02 26.6		B	CAO	50	15	7	1
9359		VORO	02	28	2301	N12 W32	02 26.5			CAI	75	9	3	2
9359		LEAR	03	01	0210	N12 W35	02 27.5		B	DSO	40	13	4	4
9359		KAND	03	01	0910	N11 W39	02 27.5			CAO		5	4	4
9359		RAMY	03	01	1250	N13 W40	02 27.6		B	DSO	50	4	4	4
9359		VORO	03	01	2258	N13 W46	02 27.6			CAI	40	3	2	3
9359		LEAR	03	02	0015	N13 W47	02 27.6		B	CRO	40	5	5	2
9359		SVTO	03	02	0650	N12 W52	02 27.5		B	CRO	20	3	4	2
9359		KAND	03	02	0915	N10 W53	02 27.5			HS		2	1	3
9359		RAMY	03	02	1310	N09 W56	02 27.4		A	HSX	20	1	1	4
9359		LEAR	03	03	0025	N09 W59	02 27.7		A	HRX	20	1		3
9359		RAMY	03	03	1229	N14 W65	02 27.7		B	DSO	40	3	8	3
9359		KAND	03	03	1240	N13 W64	02 27.8			BXO		4	6	3
9359		SVTO	03	03	1250	N13 W63	02 27.9		B	DSO	40	3	7	2
9359	30332	MWIL	03	03	1600	N11 W70	02 27.5	3	(AP)					
9359	30328	MWIL	03	03	1600	N14 W68	02 27.6	4	(BP)					
9359		HOLL	03	03	1732	N15 W67	02 27.7		B	CSO	100	5	2	2
9359		LEAR	03	04	0052	N15 W71	02 27.8		A	AXX	30	3	2	2
9359E		TACH	02	27	0536	S19 W04	02 26.9			AXX	20	1	1	3
9359E		SVTO	02	27	0722	S20 W07	02 26.8		A	AXX	10	3	1	3
9359E		KAND	02	27	0815	S19 W08	02 26.7			AX		3	2	3
9359E		RAMY	02	27	1242	S20 W09	02 26.8		B	BXO		4	2	5
9359A		RAMY	02	22	1322	S09 E59	02 27.0		A	AXX		1		3
9359A		HOLL	02	22	1456	S08 E58	02 27.0		A	AXX		1		4
9359A		LEAR	02	23	0858	S07 E47	02 26.9		A	AXX		1		4
9359A		RAMY	02	23	1220	S08 E45	02 26.9		A	AXX		1		3
9359A		LEAR	02	24	0020	S07 E38	02 26.9		A	AXX		1		5
9359A		LEAR	02	25	0205	S08 E22	02 26.7		A	AXX	10	1	1	2
9359A		HOLL	02	25	1530	S07 E18	02 27.0		A	AXX	10	1	1	3
9359A		KAND	02	28	0755	S12 W18	02 27.0			AX		1		3
9359B		KAND	02	27	0815	N16 W02	02 27.2			AX		1		3
9359B		RAMY	02	27	1242	N16 W04	02 27.2		B	BXO		3	3	5
9359B		KAND	02	28	0755	N15 W14	02 27.3			AX		1		3
9359B		RAMY	02	28	1327	N19 W16	02 27.3		A	AXX		1	9	4
9359B		TACH	03	01	0640	N13 W34	02 27.8			CAI	99	9	6	3
9359B		TACH	03	02	0603	N11 W49	02 27.7			HR	41	2	1	3
9359B		TACH	03	03	0607	N14 W62	02 27.7			BRO	30	3	6	3
9359C		LEAR	02	24	0020	N10 E47	02 27.5		A	AXX	10	2	1	5
9364		LEAR	02	28	0020	S10 W03	02 27.8		A	AXX	10	2	1	4
9364		TACH	02	28	0623	S10 W05	02 27.9			AR	26	8	1	3
9364		KAND	02	28	0755	S11 W07	02 27.8			BXO		7	3	3
9364		RAMY	02	28	1327	S10 W11	02 27.7		B	BXO	10	9	3	4
9364		HOLL	02	28	2142	S10 W16	02 27.7		B	BXO	20	8	3	1
9364		LEAR	03	01	0210	S10 W18	02 28.8		A	BXO	10	4	3	4
9364		TACH	03	01	0640	S10 W20	02 28.9			AR	13	2	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
9364		KAND	03 02 0915	S11	W31	03 1.0			BXO		3	2	3
9364	30333	MWIL	03 03 1600	S12	W48	03 1.0	3	(AP)					
9364		HOLL	03 03 1732	S10	W48	03 1.1		B	BXO	20	4	4	2
9364		LEAR	03 04 0052	S11	W53	03 1.0		B	ESO	50	5	11	2
9364		KAND	03 04 0845	S11	W61	02 28.9			BXO		5	5	1
9364		SVTO	03 04 1105	S11	W61	02 29.0		B	ESO	60	5	11	3
9364		RAMY	03 04 1228	S11	W63	02 28.9		B	DSO	40	5	9	4
9364		HOLL	03 04 1450	S09	W65	02 28.8		B	DAO	60	4	10	2
9364		LEAR	03 05 0048	S10	W68	03 1.0		B	DSO	50	2	5	1
9364		VORO	03 05 0238	S11	W73	02 28.7			DAI	100	3	4	2
9364		SVTO	03 05 0830	S10	W78	02 28.6		B	DSO	80	2	5	2
9364		KAND	03 05 0835	S10	W77	02 28.7			DAO		2	3	3
9364		HOLL	03 05 1456	S10	W85	02 28.3		B	CAO	60	3	8	3
9359D		SVTO	02 24 1007	S23	E40	02 27.5		B	CRO	10	2	3	2
9359D		KAND	03 02 0915	S24	W37	02 27.6			AX		1		3
9369		LEAR	03 03 0025	N17	W36	02 28.3		B	CRO	10	3	1	3
9369		RAMY	03 03 1229	N18	W42	02 28.3		B	DAI	20	11	4	3
9369		KAND	03 03 1240	N16	W44	02 28.2			BXO		8	5	3
9369		SVTO	03 03 1250	N17	W45	02 28.1		B	DAO	60	8	6	2
9369	30334	MWIL	03 03 1600	N17	W45	02 28.2	4	(B)					
9369		HOLL	03 03 1732	N18	W47	02 28.1		B	DSI	90	11	5	2
9369		LEAR	03 04 0052	N17	W50	02 28.2		B	DAO	50	8	4	2
9369		KAND	03 04 0845	N16	W57	02 28.0			BXO		8	7	1
9369		SVTO	03 04 1105	N17	W58	02 28.0		B	DAO	100	8	6	3
9369		RAMY	03 04 1228	N17	W58	02 28.1		B	DSO	120	7	7	4
9369		HOLL	03 04 1450	N16	W59	02 28.1		B	DAO	140	5	7	2
9369		LEAR	03 05 0048	N17	W63	02 28.2		B	DSO	50	4	7	1
9369		VORO	03 05 0238	N16	W65	02 28.2			DAI	96	3	7	2
9369		SVTO	03 05 0830	N17	W68	02 28.2		B	DAO	120	7	8	2
9369		KAND	03 05 0835	N17	W72	02 28.0			DAO		4	9	3
9369		HOLL	03 05 1456	N17	W73	02 28.1		B	DAO	150	4	8	3
9369		VORO	03 05 2243	N16	W77	02 28.1			CRO	87	2	8	2
9369		LEAR	03 06 0155	N18	W75	02 28.4		A	HRX	10	1		2
9369		SVTO	03 06 0900	N17	W80	02 28.3		B	DAO	80	4	9	4

Stations reporting:

HOLL = Holloman
KAND = Kandilli
LEAR = Learmonth

MWIL = Mt. Wilson
PALE = Palehua

RAMY = Ramey
SVTO = San Vito

TACH = Tashkent
VORO = Voroshilov

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type					Flare (UT)	X-ray Class	NOAA Region	
						SWF	SEA	SPA	LF-SPA	SES				
01	0708	0711	0735	1+	3						2	0707	C7.9	9330
01	1300	1303	1317	1-	1						1	1255	C2.6	9330
01	1711	1714	1734	1	3						2	1707	C4.1	9330
02	0934	0935U	1024	1	1		1					0847	C2.3	
02	1036	1051	1127	1	1		1					No flare		
02	1326	1345	1400	1	1		1					No flare		
03	1511	1515	1531	1	1					1		No flare		
04	0829	0844	0908	1-	3		1				2	0835	C2.5	9330
05	1505	1509	1540	2-	5		1			1		1505	C8.2	9335
05	1511	1519	1547	2-	3		1			4		1505	C8.2	9335
06	0857	0909	0947	1	1		1					No flare		
06	1118	1123	1131	1	1		1					1127	C1.5	
06	1205	1226	1257	1	1		1					No flare		
07	0714	0720	0725	1-	1					1		No flare		
08	2030	2033	2100	1+	1					1		2025	C1.1	9335
10	1540	1545	1550	1-	1					1		No flare		
10	2009	2011	2030	1	3					2		2007	C1.9	9338
11	0911	0915	0929	1	3					3		0909	C2.1	9338
13	0523	0542	0558	1+	5		1			3		0538		9348
17	1101	1104	1128	1	1		1					No flare		
17	1130	1142	1155	1	1		1					No flare		
19	1020	1025	1040	1	1					1		1030	B7.5	
19	1307	1311	1321	1-	5					2		1308	B7.9	9354
19	1505	1510	1515	1-	1					1		No flare		
19	2045	2059	2156	2+	3					2		2043	C5.4	
20	1445	1450	1505	1-	5					3		1447	C2.2	9354
20	1537	1539	1600	1	1					1		1537	C2.1	9354
20	1707	1709	1718D	1-	1					1		1706	C1.5	
21	0811	0817	0838	1+	3					3		0807	C3.0	
21	1416	1432	1524	2	5					5		1411	C6.2	9354
21	1446	1457	1505	1	1		1					No flare		
21	2007	2008	2030	1	1					1		2005	C1.2	9354
22	1021	1034	1040	2	1		1					*		
23	1300	1305	1322	1-	1					1		1256	C1.1	
23	1408	1428	1458	1	1		1					1417	C1.4	9359
25	1304	1311	1344	1	1		1					No flare		
25	1433	1442	1507	1	1		1					No flare		
26	0737	0827	0849	1	1		1					0741E	C1.6	
27	0902	0914	0930	1	1		1					No flare		
27	0959	1010	1050	1	1		1					1004	C1.3	9359
27	1102	1113	1140	1	1		1					*		
27	1314	1331	1357	1	1		1					1324	C1.1	
28	1324	1334	1414	1	1		1					No flare		
28	1559	1605	1627	1	1		1					No flare		

OBSERVATORIES REPORTING FOR FEBRUARY 2001

Bedford, Massachusetts, USA	SES	Marlboro, Massachusetts, USA	SES
Cambridge, England, UK	SES	Nerja, Spain	SES
Edenvale, Rep of S. Africa	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Houston, Texas, USA	SES	Sofia, Bulgaria	SES
Hudson, Ohio, USA	SES	Upice, Czech Republic	SEA
Isola del Gran Sasso, Italy	SES	Vlasim, Czech Republic	SEA
Koniz, Switzerland	SES		

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Spectral Observations

FEBRUARY 2001

OBSERVATION		Sta	EVENT					FREQUENCY		Remarks	
Start Day (UT)	End (UT)		Start (UT)	End (UT)	Spectral Class	Event	Int (1-3)	Lower (MHz)	Upper (MHz)		
05	0748	1442	ONDR								
	0734	1430	POTS	0814	1430 U	I	S,W	1	130	300	
	0703	1200	IZMI	0838.0U	1200.0U	I	N	1	180	270	
	0800	1535	BLEN	1510.3	1520.0	DCIM	C,P	3	1415X	3900	
			HOLL	1513.0	1524.0	II		1	40	170	ESS 0935
			SGMR	1514.0	1523.0	V		1	30	80	
			SVTO	1515.0	1524.0	II		1	25	180	ESS 0573
	2015	2400	CULG								
	2134	2400	HIRA								
06	0000	0755	CULG								
	0000	0809	HIRA								
	0654	1200	IZMI	0654.0E	1200.0D	I	S,C	1	80	215	
			IZMI	0725.7	0726.0	III	G	2	45	240	
	0734	1435	POTS	0742 E	1435 U	I	S	1	110U	300	
	0746	1444	ONDR								
	0755	1535	BLEN								
			IZMI	0829.8	0830.1	III	G	2	45	95	
			IZMI	0925.3	0926.1	III	G	2	40	160	
			IZMI	0931.7	0932.3	III	G	1	45	95	
			IZMI	1022.3	1022.4	III	B	1	45	95	
			POTS	1255.4	1255.6	III	B	1	40X	160	
			POTS	1301.9	1302.2	III	G	2	40X	400	
	2015	2400	CULG								
	2133	2400	HIRA								
07	0000	0755	CULG								
	0000	0810	HIRA								
	0653	1200	IZMI	0653.0E	1200.0D	I	S	1	105	270	
	0734	1437	POTS	0734 E	1437 U	I	S	1	110U	250	
	0744	1447	ONDR								
	0745	1545	BLEN								
			IZMI	1156.7	1157.0	III	G	1	120	240	
			POTS	1156.7	1157.4	III	G	1	110U	250	
			POTS	1217.5	1219.8	III	G	1	110U	275	
			POTS	1315.9	1316.6	III	B	2	110U	250	
	2015	2400	CULG								
	2132	2400	HIRA								
08	0000	0755	CULG								
	0000	0811	HIRA								
	0700	1200	IZMI								
	0742	1449	ONDR								
	0745	1545	BLEN								
	1104	1500	POTS	1154.0	1154.2	III	B	1	110U	300	40-90 MHz no obs.
			POTS	1308.8	1310.2	III	G	1	120	250	
			POTS	1320.2	1323.2	III	G	1	110U	250	
			POTS	1344.5	1344.6	III	B	1	110U	170U	
			POTS	1417.7	1422.9	III	G	2	40X	130	
	2020	2400	CULG	2122.0	2122.0	III	G	1	25	45	
	2131	2400	HIRA								
			CULG	2143.0	2143.0	III	G	1	28	90	
09	0000	0812	HIRA								
			LEAR	0400.0	0400.0	III		1	25	180	
	0000	0755	CULG	0400.0	0401.0	III	G	1	50U	150	
	0739	1451	ONDR								
	0734	1441	POTS	0759	1441 U	I	S	1	110U	350	
			POTS	0845.3	0845.4	III	B	1	110U	250	
	0659	1200	IZMI	0845.3	0846.0	III	G	2	35	270X	
	0745	1545	BLEN	0925.4	0926.1	DCIM	C	2	2200	3800X	
			IZMI	0942.0	0942.1	III	G	1	220	270X	
			IZMI	0953.3	0953.4	III	G	1	50	95	
			BLEN	1212.4	1213.0	DCIM	C	2	1415X	3300	
			POTS	1212.4	1212.9	III	G	2	110U	600	
			SVTO	1227.0	1228.0	III		1	29U	160U	
			POTS	1227.2	1228.1	III	G	3	40X	600	
			HOLL	2007.0	2007.0	III		1	25	121	
			PALE	2007.0	2007.0	V		2	25	125	

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FEBRUARY 2001

OBSERVATION		Sta	Start (UT)	End (UT)	EVENT		Int (1-3)	FREQUENCY		Remarks
Day (UT)	End (UT)				Spectral Class	Event Remarks		Lower (MHz)	Upper (MHz)	
09		SGMR	2007.0	2007.0	V		1	30	60	
	2005 2400	CULG	2007.0	2008.0	III	G	2	25	140	
		CULG	2037.0	2037.0	III	B	1	23	90	
		CULG	2053.0	2053.0	III	B	2	23	90	
		CULG	2113.0	2146.0	III	N	1	25	180	
		HOLL	2141.0	2144.0	III		1	25	141	
		PALE	2141.0	2144.0	III		1	25	145	
	2130 2400	HIRA	2141.5	2142.0	III	B	1	30	130	
		CULG	2142.0	2144.0	III	G	2	18	160	
		HIRA	2143.5	2144.0	III	B	2	30	280	
		CULG	2151.0	2151.0	III	B	2	18X	550	
		HIRA	2151.0	2151.5	III	B	2	30	1100	
		PALE	2151.0	2151.0	III		1	25	180	
		CULG	2237.0	2241.0	III	G	3	18X	280	
		HIRA	2237.0	2239.5	III	G	3	25X	490	
		HOLL	2237.0	2240.0	III		1	25	180	
		LEAR	2237.0	2240.0	III		2	25	180	
		PALE	2237.0	2239.0	III		1	25	180	
		CULG	2310.0	2311.0	III	G	2	18X	180	
		HIRA	2310.0	2311.0	III	G	3	25X	210	
		HOLL	2310.0	2311.0	III		1	25	167	
		LEAR	2310.0	2310.0	III		2	25	180	
		PALE	2310.0	2310.0	III		1	25	180	
10		LEAR	0308.0	0309.0	III		2	25	180	
	0000 0755	CULG	0308.0	0309.0	III	G	2	18	180	
	0000 0813	HIRA	0308.5	0309.5	III	G	2	30	180	
		LEAR	0408.0	0409.0	III		1	25	147	
		HIRA	0408.5	0409.0	III	B	1	40	130	
	0729 1200	IZMI								
	0737 1452	ONDR								
	0740 1545	BLEN								
	2020 2400	CULG								
	2129 2400	HIRA								
11		LEAR	0104.0	0111.0	II		2	36	38	ESS 0982
		LEAR	0104.0	0111.0	II		2	36	67	ESS 0670
		LEAR	0104.0	0111.0	II		2	36	67	ESS 0982
	0000 0755	CULG	0105.0	0110.0	II	SH	2	40	75	ESS 1000
	0000 0814	HIRA	0105.0	0111.0	II		2	40	70	
		CULG	0107.0	0109.0	II	FN	1	20	30	
		CULG	0107.0	0128.0	III	N	2	20	160	
		LEAR	0107.0	0114.0	III		3	25	135	
		HIRA	0114.0	0114.5	III	B	2	30	70	
		LEAR	0115.0	0124.0	III		2	25	138	
		LEAR	0125.0	0134.0	III		1	30	87	
		CULG	0339.0	0340.0	III	G	1	25	90	
		LEAR	0339.0	0340.0	III		2	25	106	
	0735 1455	ONDR								
	0740 1545	BLEN								
		LEAR	0858.0	0900.0	III		1	30	90	
	0700 1200	IZMI	0858.1	0900.8	III	GG	2	40	100	
		IZMI	0907.5	0909.6	III	G	1	45	95	
	2020 2400	CULG								
	2128 2400	HIRA								
12	0000 0755	CULG								
	0000 0815	HIRA								
	0733 1457	ONDR								
	0740 1545	BLEN								
	0725 1447	POTS	0831	1447 U	I	S,W	1	110U	170U	
	0659 1200	IZMI	0842.0U	0905.0	I	S	1	120	160	
		IZMI	1004.3	1004.7	III	G	1	45	90	
		IZMI	1009.3	1009.8	III	G	2	30	95	
		HOLL	2029.0	2031.0	III		1	25	153	
		CULG	2030.0	2035.0	II	SH	2	60	150	ESS 800
		HOLL	2030.0	2037.0	II		1	25	151	ESS 0713
		SGMR	2030.0	2034.0	II		2	30	65	ESS 1200
	2020 2400	CULG	2030.0	2037.0	II	FN	3	35	75	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	EVENT		Int (1-3)	FREQUENCY		Remarks
						Spectral Class	Event Remarks		Lower (MHz)	Upper (MHz)	
19	0650	1200	IZMI	0650.7	0650.8	III	B	1	45	70	
			IZMI	0656.6	0656.7	III	B	1	45	70	
	0718	1512	ONDR								
	0730	1550	BLEN								
	0713	1503	POTS	1208	1210	I	S	1	130	160	
	2120	2400	HIRA								
			HOLL	2123.0	2123.0	III		1	25	180	
	2020	2400	CULG	2123.0	2123.0	III	B	2	50	170	
20	0000	0755	CULG								
	0000	0823	HIRA								
	0716	1514	ONDR								
	0700	1200	IZMI	0758.5	0758.7	III	B	1	40	90	
	0713	1506	POTS	1151	1155	I	S	1	110U	130	
			POTS	1155.6	1155.9	III	G	1	110U	170U	
			POTS	1225.4	1232.7	III	G	2	40X	135	
	0730	1550	BLEN	1449.6	1457.5	DCIM	C	1	1415X	3800X	
			POTS	1453.1	1453.3	DCIM		1	325	400	
		2020	2400	CULG							
	2119	2400	HIRA								
21	0000	0755	CULG								
	0000	0824	HIRA								
	0701	1200	IZMI								
			LEAR	0800.0	0810.0	III	N	1	25	180	
	0652	1508	POTS	0845	1506	I	S,W	1	110U	170U	
			POTS	1044.1	1049.2	III	G	1	110U	150	
	0713	1515	ONDR	1411.2	1420.3	DCIM	G	1	2000X	4500X	
			POTS	1417.0	1426.3	DCIM		2	140	400	
			ONDR	1419.5	1426.0	DCIM	GG	2	800X	1517	
	0730	1555	BLEN	1419.8	1422.7	DCIM	C	2	1415X	3800X	
			ONDR	1421.3	1424.5	DCIM	G	2	2000X	4500X	
			POTS	1422.3	1426.4	III	G,RS	2	40X	170U	
			HOLL	1425.0	1426.0	III		1	37	180	
			SVTO	1425.0	1425.0	III		1	33U	135U	
		2020	2400	CULG							
	2117	2400	HIRA								
22			LEAR	0038.0	0040.0	III		1	25	168	
	0000	0755	CULG	0039.0	0041.0	III	G	1	28	150	
	0000	0826	HIRA	0040.0	0040.5	III	B	1	30	220	
			LEAR	0416.0	0417.0	III		1	25	180	
			HIRA	0416.5	0417.0	III	B	2	30	190	
			CULG	0417.0	0417.0	III	B	1	20	170	
			LEAR	0607.0	0611.0	III		1	25	107	
			SVTO	0609.0	0610.0	III		1	35U	82U	
			HIRA	0609.5	0610.5	III	B	1	30	140	
			CULG	0610.0	0611.0	III	B	1	18	90	
	0702	1200	IZMI								
	0711	1518	ONDR								
	0730	1555	BLEN								
	0652	1510	POTS	0806	0857	I	S,W	1	110U	170U	
			POTS	0810.9	0811.0	III	B	1	220	325	
			POTS	1318.3	1318.5	DCIM		1	200U	375	
			POTS	1332.2	1334.0	III	G	2	40X	90U	
			POTS	1335.0	1338.9	III	G	2	40X	250	
		2020	2400	CULG							
		2115	2400	HIRA							
23			LEAR	0547.0	0547.0	III		1	25	119	
	0000	0755	CULG	0547.0	0547.0	III	B	1	18	170	
	0000	0827	HIRA	0547.0	0547.5	III	B	1	30	260	
			CULG	0623.0	0628.0	III	GG	2	20	260	
			LEAR	0623.0	0628.0	III		2	25	180	
			SVTO	0623.0	0627.0	III		1	25	180	
			HIRA	0624.5	0626.0	III	G	2	50	270	
	0709	1520	ONDR								
			CULG	0726.0	0726.0	III	B	1	23	60	
	0700	1200	IZMI	0726.4	0726.7	III	G	2	80	95	

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Spectral Observations

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OBSERVATION		Sta	Start (UT)	End (UT)	EVENT		Int (1-3)	FREQUENCY		Remarks
Day	Start End (UT) (UT)				Spectral Class	Event Remarks		Lower (MHz)	Upper (MHz)	
23		IZMI	0727.4	0727.5	I	G	1	185	220	
	0704 1458	POTS	0729.8	0729.9	III	B	1	300	400	
		IZMI	0730.0U	1100.0U	I	N	1	180	260	
		POTS	0733	1458 U	I	S,W	1	110U	250	
		POTS	0742.0	0742.2	III	B	1	325	450	
	0730 1555	BLEN	0803.7	0803.9	III	GG	2	1415X	3550	
		HOLL	1614.0	1618.0	III		1	25	180	
		SGMR	1614.0	1615.0	V		2	30	80	
	2114 2400	HIRA								
	2020 2400	CULG	2129.0	2133.0	III	G	1	23	90	
		CULG	2302.0	2308.0	II	FN,H	1	55U	75	
		CULG	2302.0	2309.0	II	SH,H	1	75	150	
		LEAR	2302.0	2310.0	III		1	49	155	
		HOLL	2305.0	2314.0	III		1	25	140	
24		LEAR	0056.0	0057.0	III		1	25	180	
		PALE	0056.0	0143.0	III	N	1	25	180	
	0000 0755	CULG	0057.0	0057.0	III	G	1	23	180	
		LEAR	0114.0	0116.0	III		2	25	180	
		CULG	0115.0	0116.0	III	G	2	23	230	
	0000 0828	HIRA	0115.0	0115.5	III	B	2	30	200	
		CULG	0312.0	0314.0	III	G	1	23	180	
		LEAR	0312.0	0314.0	III		2	25	180	
		HIRA	0312.5	0314.0	III	G	2	25X	190	
		CULG	0436.0	0439.0	III	G	1	20	180	
		LEAR	0436.0	0438.0	III		1	25	180	
		CULG	0504.0	0505.0	III	G	1	50U	90	
		LEAR	0504.0	0505.0	III		1	25	120	
		LEAR	0623.0	0623.0	III		1	25	64	
		CULG	0718.0	0721.0	III	G	1	23	90	
		LEAR	0718.0	0718.0	III		1	25	106	
		SVTO	0718.0	0718.0	III		1	25U	79U	
	0654 1200	IZMI	0718.2	0719.2	III	GG,FS	2	32	95	
		IZMI	0721.2	0721.4	III	G	1	45	65	
		IZMI	1003.0	1003.1	III	G	2	170	215	
	0707 1522	ONDR	1356.3	1357.1	DCIM	GG	2	800X	1592	
	0730 1555	BLEN	1356.5	1357.6	III	GG,C	2	1415X	3850X	
	2020 2400	CULG								
	2113 2400	HIRA								
25	0000 0755	CULG								
	0000 0829	HIRA								
	0702 1200	IZMI								
	0704 1523	ONDR								
	0730 1555	BLEN								
	2020 2400	CULG								
	2112 2400	HIRA								
26	0702 1526	ONDR								
	0000 0755	CULG	0715.0	0715.0	III	B	1	30	80	
	0000 0830	HIRA	0715.0	0715.5	III	B	1	50	120	
	0657 1200	IZMI	0715.3	0715.6	III	G,FS	2	30	270X	
	0730 1600	BLEN								
		SVTO	1422.0	1428.0	III		2	29U	75U	
	2020 2400	CULG								
	2111 2400	HIRA								
27	0000 0755	CULG								
	0000 0831	HIRA								
	0700 1528	ONDR								
		SVTO	0900.0	0900.0	III		1	75	164	
	0659 1200	IZMI	0952.7	0952.8	III	B	1	45	70	
		IZMI	0957.8	0958.0	III	G,FS	2	30	100	
	0652 1521	POTS	0957.8	0958.1	III	G	1	40X	170U	
	0730 1600	BLEN	1329.7	1330.5	III	GG,C	2	1415X	3850X	
	2020 2400	CULG								
	2110 2400	HIRA								
28		LEAR	0643.0	0646.0	III		1	25	121	

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

125
Feb 01

FEBRUARY 2001

OBSERVATION			Start (UT)	End (UT)	EVENT		Int (1-3)	FREQUENCY		Remarks
Day (UT)	Start (UT)	End (UT)			Spectral Class	Event Remarks		Lower (MHz)	Upper (MHz)	
28			0643.0	0646.0	III		1	25	81	
	0000	0832	HIRA 0643.5	0644.0	III	B	1	40	250	
	0000	0755	CULG 0644.0	0647.0	III	G	1	20	90	
			HIRA 0646.0	0646.5	III	B	1	50	220	
	0657	1529	ONDR							
	0730	1605	BLEN							
	0652	1523	POTS 0915.8	0915.9	UNCLF		1	110U	275	
	0700	1200	IZMI 0915.8	0915.9	III	B	2	170	270X	
			IZMI 1017.0	1017.2	III	B	2	45	185	
			POTS 1017.1	1017.2	III	B	1	40X	170U	
			IZMI 1045.3	1045.7	III	G	2	35	270	
			POTS 1045.3	1051.1	III	GG	3	40X	400	
			IZMI 1048.1	1050.9	III	GG,FS	2	25X	270X	
			SVTO 1049.0	1050.0	III		1	25	180	
			POTS 1109.6	1109.8	III	B	1	40X	90U	
			IZMI 1123.4	1124.3	III	G	1	45	95	
			POTS 1123.4	1127.4	III	G	1	40X	170U	
			IZMI 1149.6	1149.9	III	G	1	45	95	
			POTS 1149.7	1149.9	III	G	1	40X	90U	
			POTS 1246.2	1246.3	III	G	2	40X	90U	
			POTS 1322.5	1325.8	III	G	2	40X	350	
			POTS 1353.9	1356.7	III	G	3	40X	250	
			POTS 1459.4	1501.2	III	G	2	40X	90U	
	2020	2400	CULG							
			LEAR 2258.0	2259.0	III		1	25	180	
	2109	2400	HIRA 2258.5	2259.0	III	B	1	30	160	

Event Remarks:

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

Frequency qualifiers:

X = Extends beyond instrument range U = Uncertain frequency

Remarks:

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

Stations Reporting:

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

SOLAR RADIO NOISE STORM AT 164 MHZ

FROM NANCAY RADIOHELIOGRAPH

FEBRUARY 2001

DAY	HELIOGRAPHICS POSITIONS MEAN VALUES ¹		IMP ²	OBSERVING TIME ³	
	E-W	S-N		START(UT)	END(UT)
03/02/01	+1.58	+0.48	I	9H52 E	10H55
03/02/01	-1.01	+0.16	I	9H52 E	14H40
04/02/01*	-0.82	+0.33	I	8H34 E	15H35 D
05/02/01	-1.18	+0.00	I	8H34 E	15H35 D
06/02/01	-0.60	+0.54	III	8H34 E	15H35 D
07/02/01*	-0.16	+0.64	II	8H34 E	13H24 D
09/02/01*	-0.14	-0.09	I	8H38 E	15H34 D
09/02/01*	-0.03	+0.54	II	11H50	15H34 D
12/02/01	-0.98	+0.60	I	11H47	14H07
13/02/01*	+0.73	+0.60	I	8H33 E	15H35 D
15/02/01	+0.12	+0.47	I	13H52	15H35 D
15/02/01	+1.19	-0.31	I	13H40	15H35 D
21/02/01	+0.54	+0.28	II	14H17	15H35 D
22/02/01	+0.98	+0.06	I	8H33 E	11H57
23/02/01	+1.22	+0.22	I	8H33 E	14H08

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

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

³ E NOISE STORM IN PROGRESS AT THE BEGINNING OF THE NANCAY OBSERVATIONS

 D NOISE STORM IN PROGRESS AT THE END OF THE NANCAY OBSERVATIONS

NOISE STORM AT 327 MHZ
FROM NANCAY RADIOHELIOGRAPH
FEBRUARY 2001

DAY	HELIOGRAPHICS POSITIONS MEAN VALUES ¹		IMP ²	OBSERVING TIME ³	
	E-W	S-N		START(UT)	END(UT)
02/02/01	-0.57	+0.68	I	8H33 E	15H34 D
04/02/01*	-1.09	-0.12	I	10H50	15H35 D
04/02/01*	-0.74	+0.23	I	8H34 E	15H35 D
05/02/01	-1.04	-0.08	II	8H34 E	15H35 D
06/02/01	-0.95	-0.06	II	8H34 E	15H35 D
06/02/01	-0.54	+0.47	II	8H34 E	15H35 D
07/02/01*	-0.79	-0.08	II	8H34 E	13H24 D
09/02/01	-0.06	-0.14	I	8H38 E	15H34 D
10/02/01	+0.19	-0.25	I	11H41 E	15H35 D
14/02/01	+1.01	-0.14	I	8H34 E	15H35 D
15/02/01	-0.02	+0.33	I	14H10	15H35 D
15/02/01	+1.16	-0.20	II	8H34 E	15H35 D
22/02/01	+0.93	-0.08	I	8H33 E	13H17
23/02/01	+0.85	-0.12	I	13H00	15H34 D
23/02/01	+1.13	-0.05	I	8H33 E	15H34 D
25/02/01	+1.15	-0.12	I	8H33 E	14H30

11 FEBRUARY: NO DATA

OTHERS DAYS: NO DETECTABLE NOISE STORM

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

** Due to the onset of the strongest storm at 13H15, the end time cannot be determined

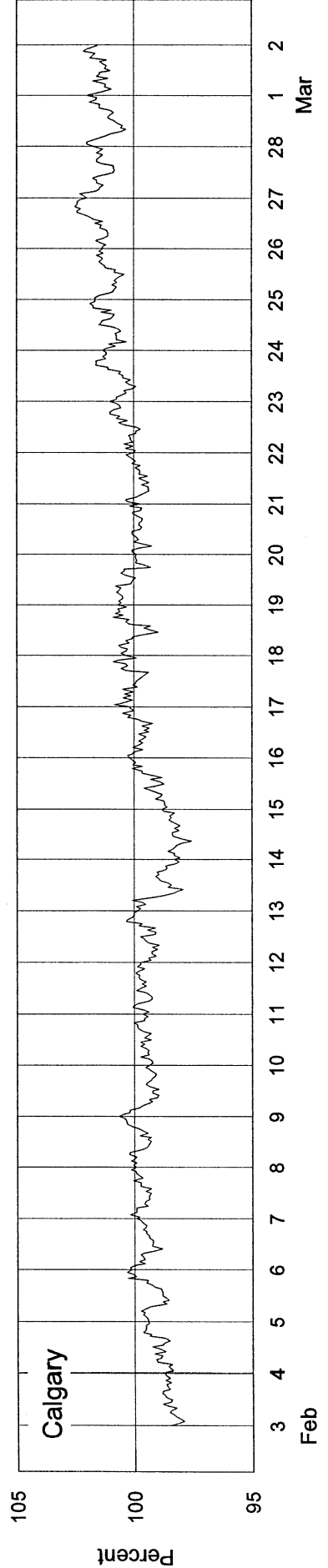
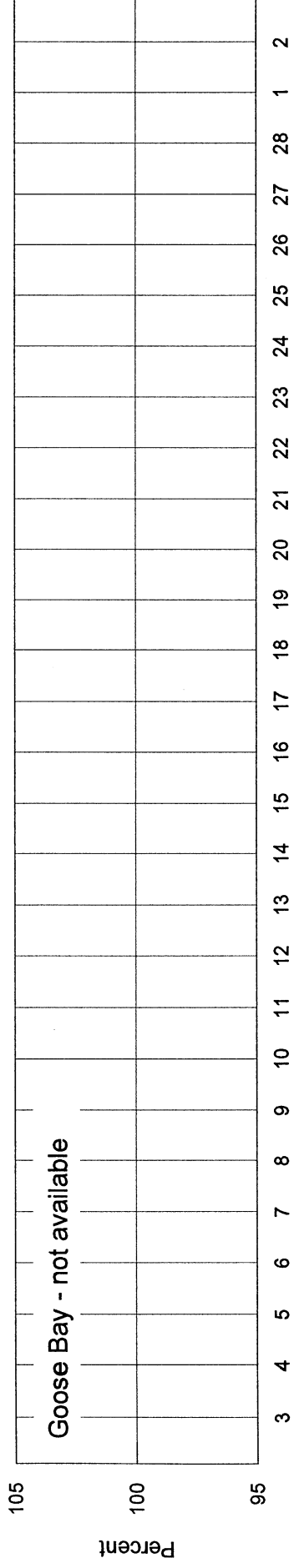
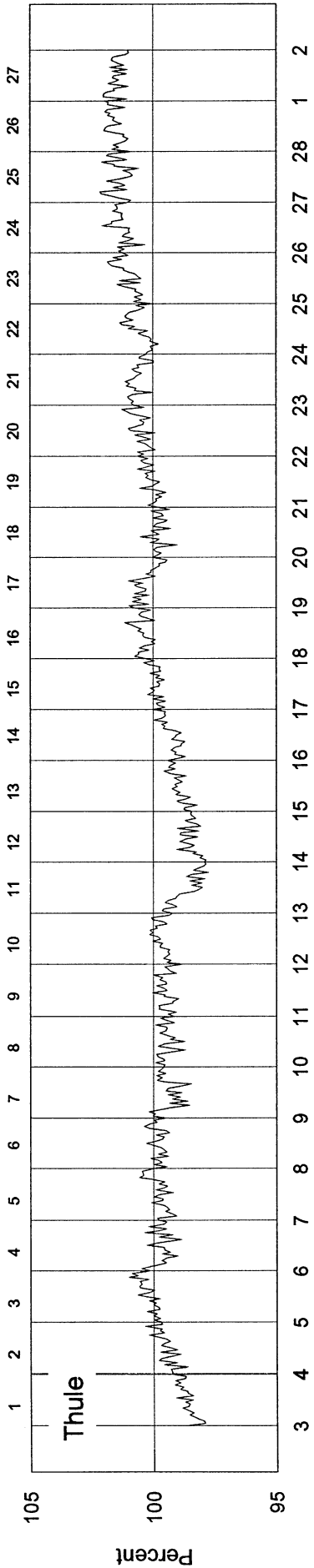
COSMIC RAY INDICES
(Neutron Monitor)
February 2001

Day	THULE Average (cts/h)/100	GOOSE BAY Average (cts/h)/100	CALGARY Average (cts/h)/300	KIEL Average (cts/h)/100	MOSCOW Average (cts/h)/64	CLIMAX Average (cts/h)/100	BEIJING Average (cts/h)/256	HALEAKALA Average (cts/h)/1000
1	4044.0	not	3485.2	5621.3	8347.9	3691.1	1952.7	3526.3
2	4027.1	available	3521.5	5665.0	8388.6	3716.9	1956.7	3540.8
3	4016.7		3554.2	5700.5	8450.9	3734.8	1960.8	3543.6
4	4025.7		3671.7	5718.6	8497.7	3750.4	1962.7	3544.0
5	4035.6		3584.7	5715.1	8505.7	3759.8	1965.0	3535.6
6	4048.0		3591.8	5700.6	8495.8	3776.5	1971.9	3531.0
7	4050.5		3598.0	5702.3	8473.2	3803.8	1976.9	3541.7
8	4053.8		3603.3	5727.9	8504.0	3814.0	1977.3	3536.0
9	4041.2		3589.8	5723.5	8467.4	3797.2	1973.2	3534.0
10	4035.2		3592.0	5718.7	8466.8	3800.6	1973.8	3537.9
11	4047.4		3596.0	5689.5	8490.2	3804.2	1976.0	3534.2
12	4064.0		3590.8	5707.2	8508.7	3799.2	1969.3	3530.5
13	4019.7		3569.7	5673.7	8424.0	3768.7	1964.0	3521.0
14	4009.3		3545.8	5683.2	8469.2	3774.7	1969.6	3524.7
15	4021.6		3580.8	5700.8	8465.0	3796.8	1978.4	3533.1
16	4001.5		3602.7	5721.4	8510.5	3791.5	1971.3	3539.4
17	4005.2		3614.8	5746.0	8547.6	3807.8	1968.2	3554.0
18	3995.7		3615.7	5756.7	8574.9	3816.9	1964.5	3551.8
19	3998.0		3618.5	5757.9	8606.0	3816.4	1960.7	3545.2
20	4010.7		3602.7	5729.2	8534.2	3787.3	1950.8	3543.4
21	4024.1		3601.0	5716.3	8539.4	3802.5	1949.5	3547.2
22	4007.0		3620.8	5769.7	8567.1	3816.0	1951.8	3549.5
23	4010.8		3636.0	5805.3	8587.2	3857.0	1964.8	3562.9
24	3932.8		3647.2	5818.4	8594.6	3868.1	1971.5	3557.2
25	3941.1		3648.2	5806.6	8616.8	3862.2	1966.3	3562.2
26	3956.5		3669.7	5827.9	8652.6	3871.8	1967.1	3567.9
27	3976.9		3660.8	5848.1	8659.1	3885.4	1969.5	3576.7
28	4002.7		3652.5	5845.1	8638.6	3876.8	1959.9	3568.4
29								
30								
31								
Mean	4014.0		3598.8	5735.6	8520.8	3801.9	1965.9	3544.3

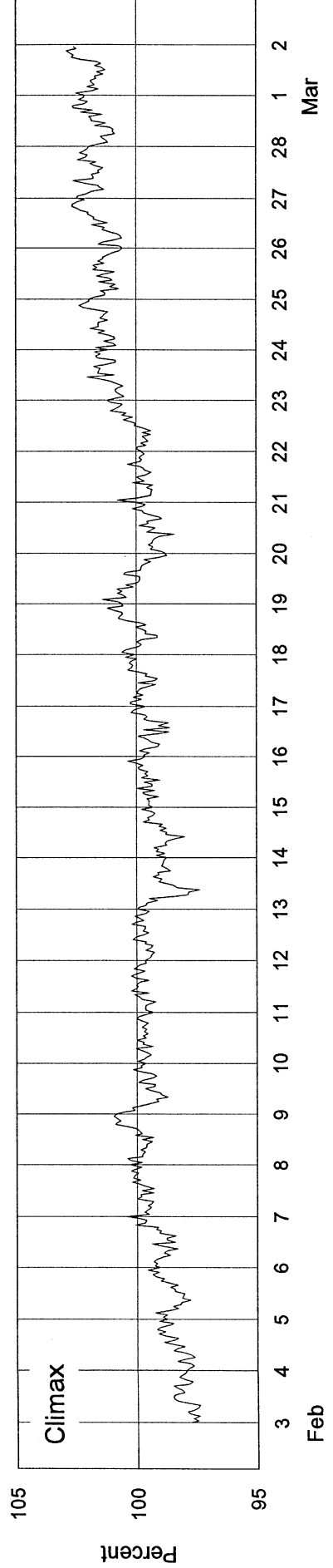
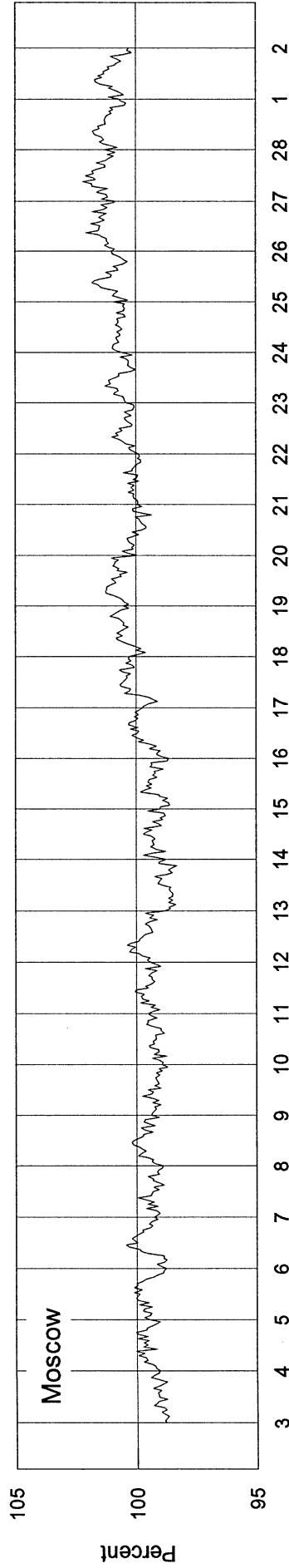
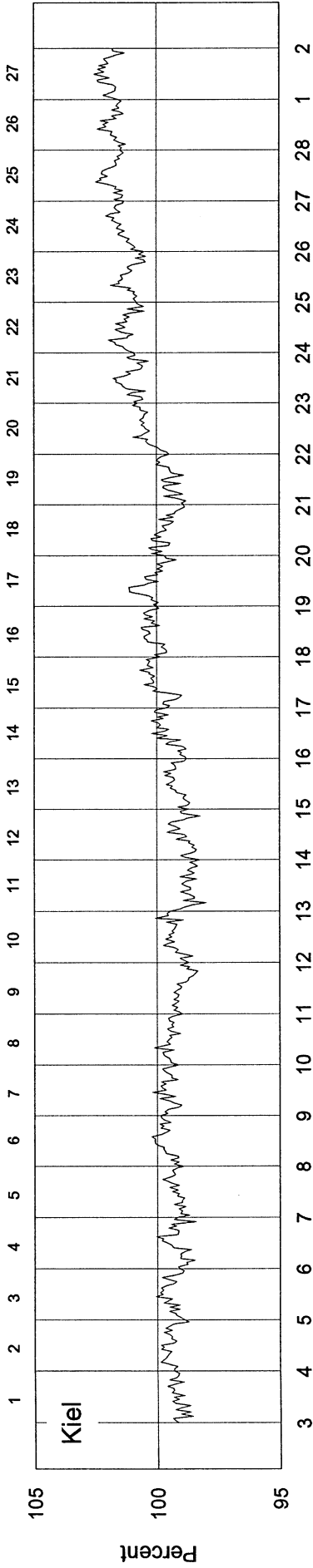
For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours, and for Haleakala, whenever the sum of all three sections falls below 60 hours.

COSMIC RAY INDICES (Neutron Monitor)

Bartels Rotation 2287 - Beginning 3 Feb 2001

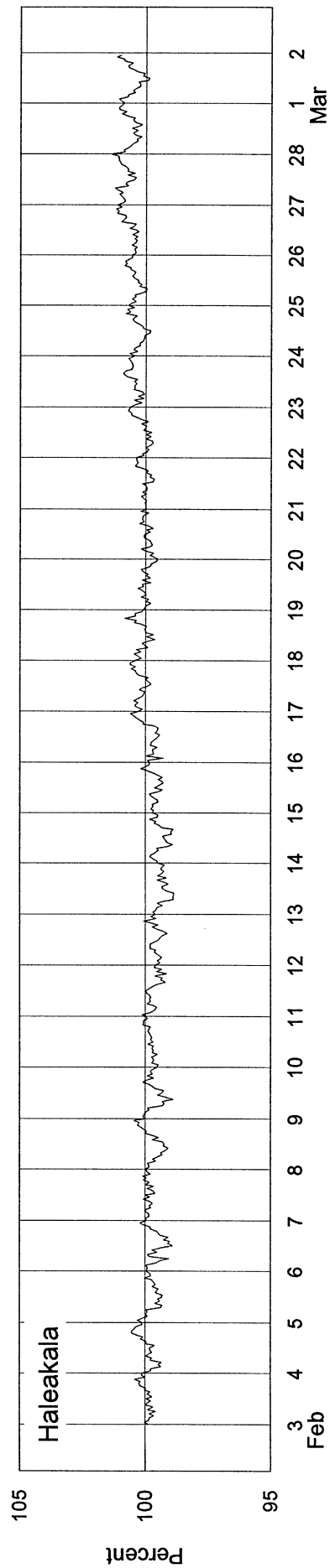
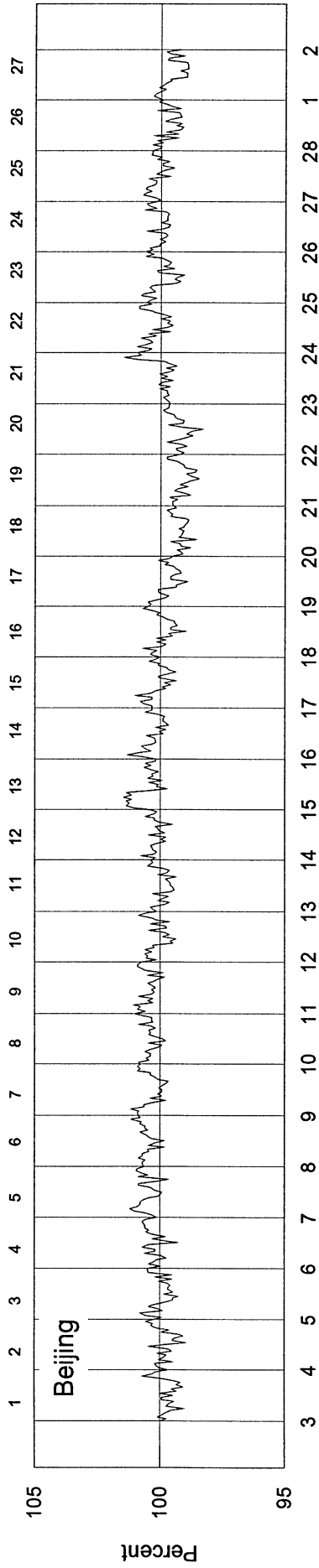


COSMIC RAY INDICES (Neutron Monitor) Bartels Rotation 2287 - Beginning 3 Feb 2001

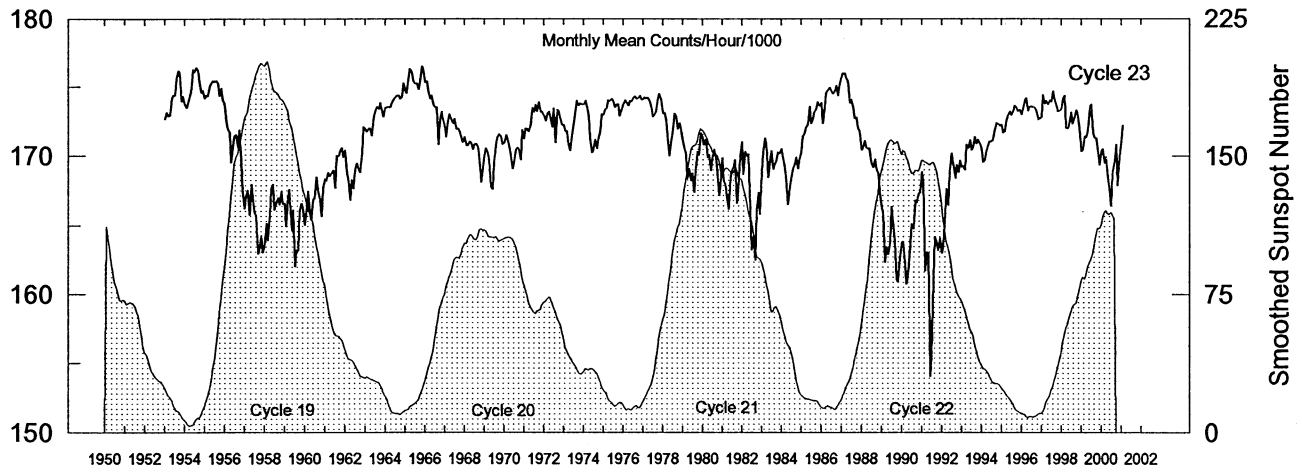


COSMIC RAY INDICES (Neutron Monitor)

Bartels Rotation 2287 - Beginning 3 Feb 2001



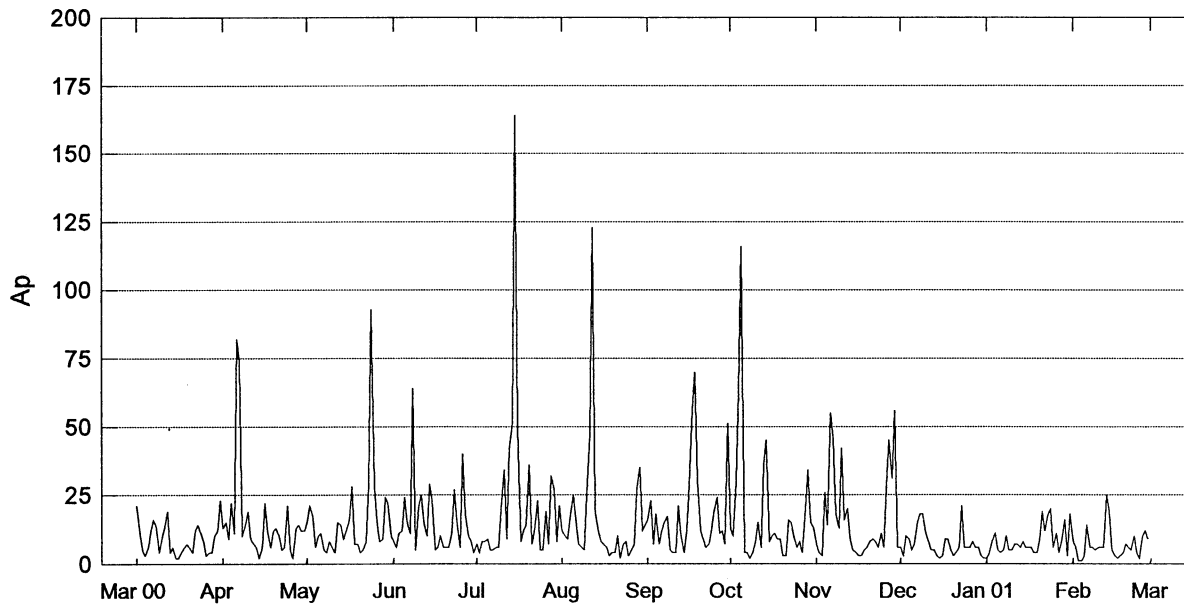
Huancayo* Neutron Monitor Pressure-Corrected/Adjusted Values Jan 1953 - Feb 2001



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1953	1727	1732	1730	1729	1742	1744	1744	1756	1762	1761	1740	1744	1743
1954	1737	1735	1738	1744	1747	1763	1761	1764	1762	1754	1746	1748	1750
1955	1742	1744	1744	1751	1754	1755	1754	1755	1753	1744	1749	1741	1749
1956	1738	1724	1719	1718	1696	1707	1715	1716	1706	1719	1697	1675	1711
1957	1663	1671	1675	1658	1680	1670	1659	1658	1630	1633	1643	1630	1656
1958	1635	1652	1639	1657	1677	1680	1661	1667	1670	1665	1675	1666	1662
1959	1666	1649	1671	1676	1647	1661	1621	1632	1632	1661	1666	1663	1654
1960	1650	1663	1675	1660	1654	1669	1669	1685	1674	1670	1657	1677	1667
1961	1684	1682	1688	1685	1688	1690	1677	1701	1700	1704	1706	1699	1692
1962	1704	1687	1683	1668	1683	1677	1690	1695	1690	1688	1703	1721	1691
1963	1720	1718	1720	1720	1715	1729	1734	1736	1734	1739	1732	1729	1727
1964	1735	1736	1736	1736	1739	1741	1742	1744	1744	1741	1743	1753	1741
1965	1748	1745	1756	1764	1762	1754	1753	1753	1748	1754	1765	1764	1755
1966	1754	1754	1747	1741	1744	1737	1736	1736	1708	1725	1732	1727	1737
1967	1721	1714	1726	1731	1727	1724	1727	1720	1720	1718	1713	1710	1721
1968	1714	1708	1708	1710	1710	1705	1708	1709	1706	1698	1681	1689	1704
1969	1702	1706	1702	1698	1678	1676	1695	1708	1714	1716	1714	1709	1701
1970	1709	1715	1712	1707	1701	1691	1695	1705	1706	1705	1697	1719	1705
1971	1712	1720	1720	1718	1722	1735	1732	1737	1732	1739	1732	1732	1728
1972	1730	1726	1731	1732	1728	1721	1734	1710	1733	1733	1726	1723	1727
1973	1723	1719	1718	1709	1704	1716	1723	1733	1740	1737	1738	1738	1725
1974	1737	1740	1736	1729	1713	1703	1704	1712	1705	1713	1718	1731	1720
1975	1730	1733	1734	1740	1740	1742	1740	1735	1737	1738	1729	1733	1736
1976	1738	1741	1739	1737	1740	1740	1742	1743	1742	1742	1744	1741	1741
1977	1741	1743	1742	1742	1740	1735	1729	1730	1732	1742	1745	1741	1739
1978	1731	1731	1726	1710	1700	1710	1717	1731	1729	1719	1724	1720	1721
1979	1711	1707	1702	1684	1691	1682	1688	1674	1689	1703	1700	1717	1696
1980	1713	1708	1712	1699	1701	1690	1698	1705	1699	1688	1672	1680	1697
1981	1699	1682	1680	1671	1662	1685	1690	1693	1697	1666	1675	1700	1683
1982	1710	1687	1703	1700	1702	1662	1632	1643	1625	1662	1674	1658	1671
1983	1688	1703	1713	1709	1685	1697	1704	1690	1694	1697	1703	1702	1699
1984	1705	1699	1693	1685	1665	1677	1684	1691	1695	1699	1691	1698	1690
1985	1703	1714	1716	1721	1723	1736	1724	1727	1732	1734	1739	1737	1725
1986	1739	1724	1734	1746	1748	1750	1748	1745	1747	1751	1744	1752	1744
1987	1757	1760	1760	1757	1754	1738	1741	1735	1728	1728	1721	1718	1741
1988	1704	1706	1711	1706	1705	1705	1696	1692	1698	1690	1688	1674	1698
1989	1663	1660	1624	1635	1629	1638	1664	1650	1640	1611	1609	1627	1637
1990	1638	1638	1623	1608	1616	1630	1651	1648	1668	1666	1673	1673	1644
1991	1689	1682	1617	1631	1630	1540	1555	1611	1642	1638	1632	1641	1626
1992	1630	1635	1659	1677	1665	1689	1702	1696	1684	1693	1688	1697	1676
1993	1692	1692	1690	1708	1705	1711	1704	1707	1714	1709	1712	1709	1705
1994	1705	1696	1697	1703	1708	1711	1711	1711	1718	1724	1723	1722	1711
1995	1723	1717	1718	1726	1730	1732	1730	1733	1736	1735	1732	1734	1729
1996	1730	1734	1740	1742	1733	1735	1736	1736	1735	1733	1727	1727	1734
1997	1728	1744	1738	1740	1737	1741	1739	1747	1741	1737	1733	1733	1738
1998	1734	1741	1744	1721	1720	1723	1732	1723	1728	1733	1731	1719	1729
1999	1703	1704	1714	1713	1719	1736	1737	1717	1714	1713	1705	1694	1714
2000	1704	1704	1695	1700	1685	1678	1664	1688	1695	1708	1679	1699	1692
2001	1712	1723											1718

Multiply table entries by 100 to obtain hourly counting rate for Huancayo, Peru: S12 W75, Alt=3400m, Cutoff Rigidity=12.92GV (1980). NOTE: Secular changes in the Earth's magnetic field resulted in a slow lowering of the geomagnetic cutoff rigidity at Huancayo over the 40 year period. This dataset was adjusted by applying a linear time-correction based on the calculated change in response to the change in the vertical cutoff. * Data from Jan 92 on are from the 18-NM64 at Haleakala, Hawaii: N20 W156, Alt=3030m, Cutoff Rigidity=12.91GV (1980). Multiply table entries by 2057.6 to obtain equivalent Haleakala counting rate.

Daily Average Indices Ap Mar 2000 - Feb 2001

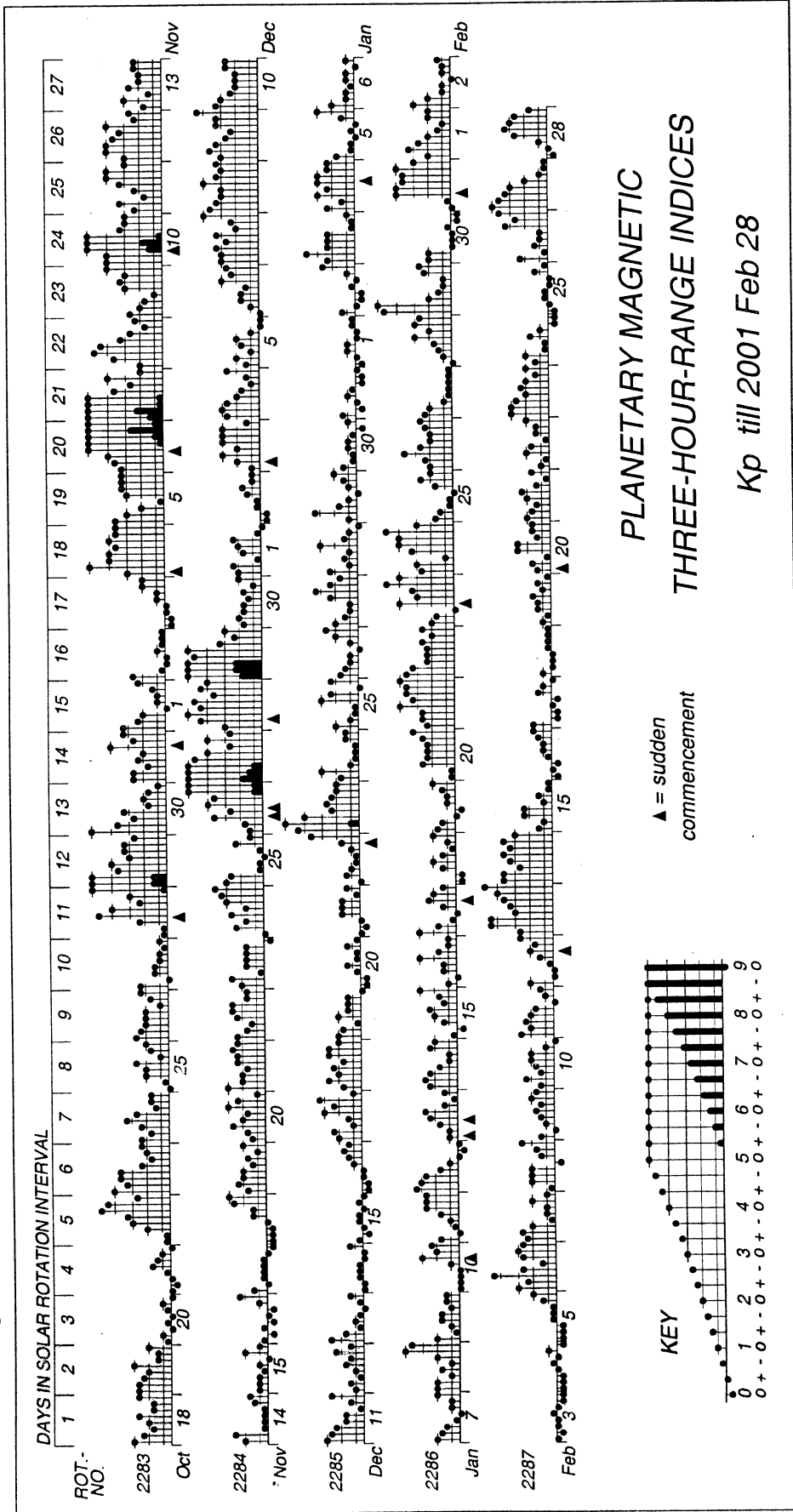


Day	Mar 00	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 01	Feb
1	21	13	15	8	7	12	16	13	7	6	2	8
2	11	15	21	6	4	10	23	10	4	3	4	6
3	5	9	17	11	8	9	7	30	3	10	8	1
4	3	22	6	12	8	17	18	63	26	9	11	1
5	6	11	10	24	9	25	7	116	14	5	5	3
6	12	82	11	15	5	16	12	4	55	7	4	14
7	16	74	5	11	5	7	15	4	46	15	5	6
8	14	10	4	64	6	6	17	2	18	18	10	6
9	4	14	8	5	6	5	5	4	13	18	5	5
10	9	19	6	21	20	25	4	8	42	11	5	6
11	13	9	4	25	34	47	4	15	16	8	7	6
12	19	7	15	15	9	123	21	6	20	5	7	6
13	4	6	14	10	42	19	10	36	9	5	6	25
14	6	2	9	29	51	12	4	45	5	3	8	19
15	2	6	12	23	164	8	12	8	4	2	6	5
16	2	22	16	5	50	7	29	10	3	3	6	3
17	4	12	28	6	8	6	56	11	3	9	6	2
18	6	6	7	10	12	3	70	9	5	9	4	3
19	7	12	7	6	14	4	30	9	6	5	4	4
20	6	13	4	6	36	4	12	3	8	3	9	7
21	4	10	5	6	7	10	9	3	9	4	19	6
22	12	5	8	11	12	2	6	16	8	6	12	5
23	14	6	29	27	23	7	7	15	6	21	18	10
24	11	21	93	15	5	8	12	9	11	6	20	4
25	8	5	28	6	5	3	19	6	6	6	6	2
26	3	2	15	40	19	5	24	8	28	6	11	10
27	4	13	8	18	7	7	11	4	45	8	4	12
28	4	14	9	10	32	27	12	20	31	6	8	9
29	10	12	24	8	27	35	7	34	56	6	16	
30	12	12	22	4	8	12	51	15	6	3	3	
31	23		10		21	14		13		2	18	
Mean	9	15	15	15	21	16	18	18	17	7	8	7

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

Kp through February 28, 2001

GeoForschungsZentrum Potsdam

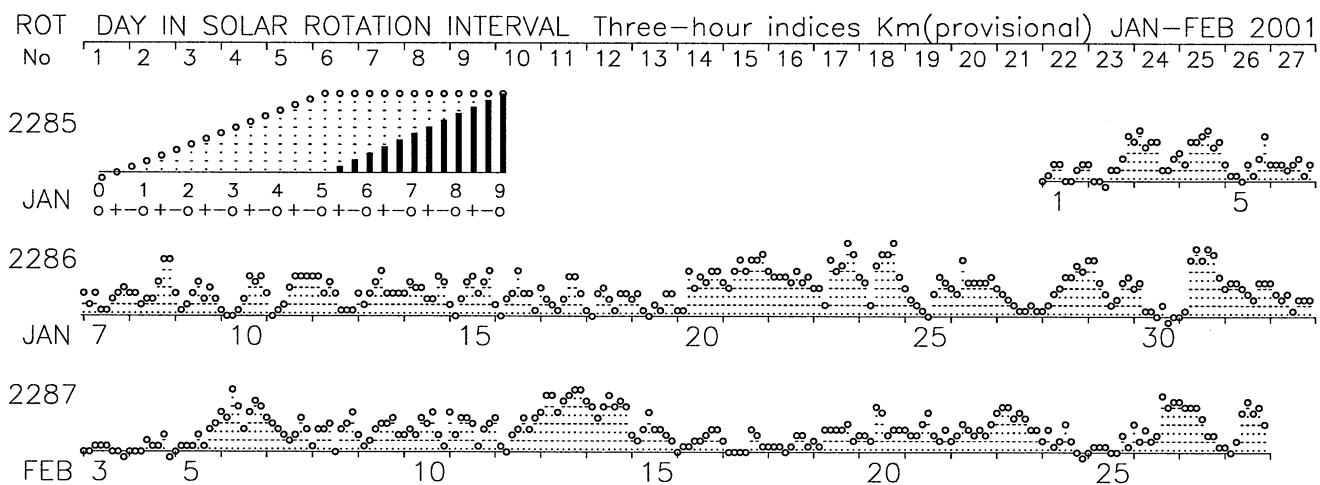


PLANETARY GEOMAGNETIC ACTIVITY

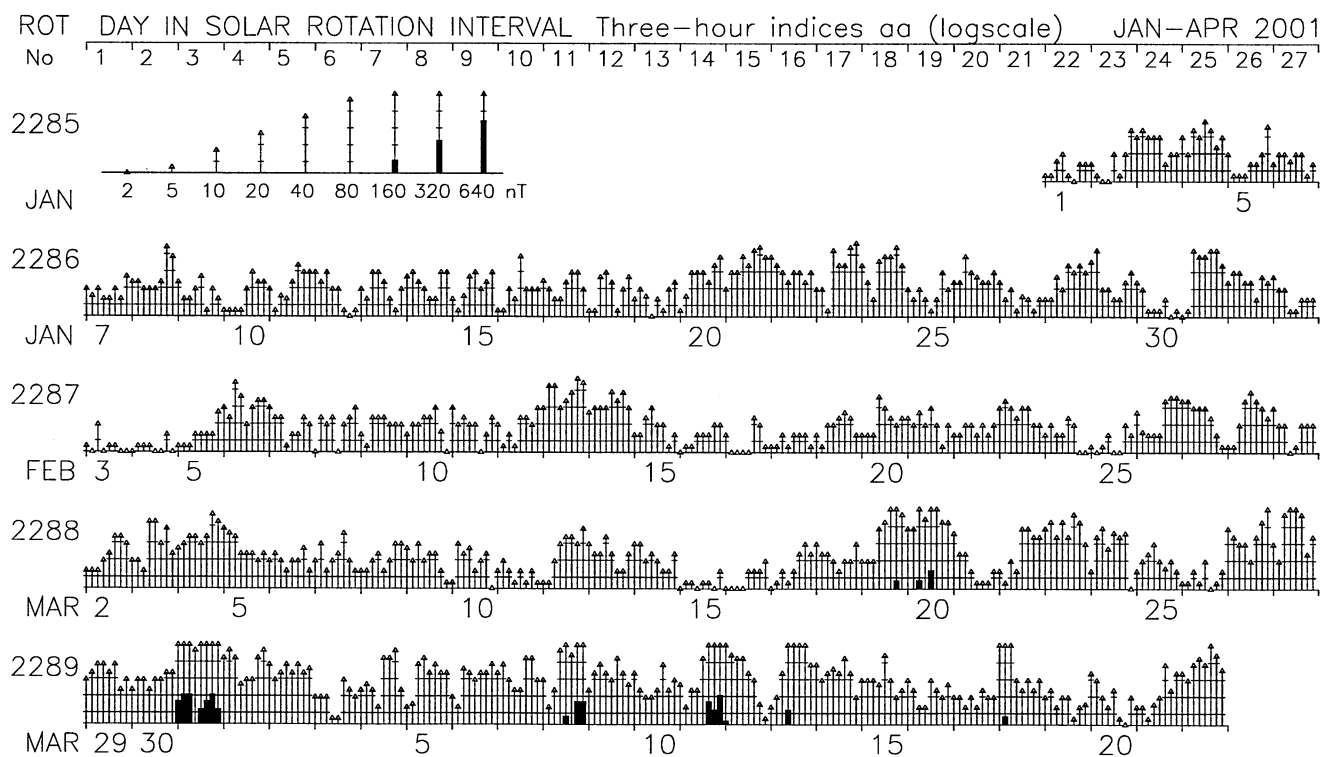
3-HOUR-RANGE INDICES Km AND aa BY 27-DAY SOLAR ROTATION INTERVAL

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

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



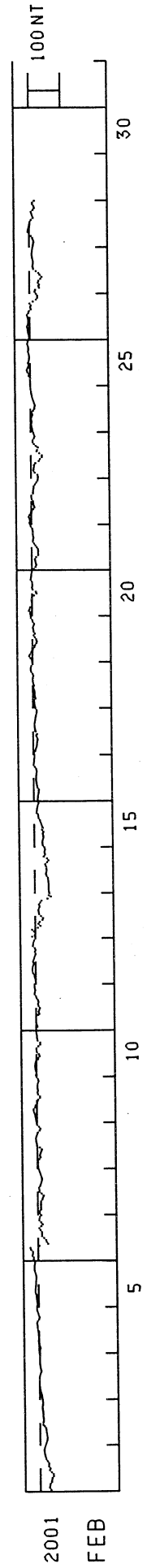
Indices Derivation at C.E.T.P.; Graph Prepared at ISGI Publication Office.

WDC FOR GEOMAGNETISM, KYOTO UNIVERSITY

HOURLY EQUATORIAL DST VALUES (PROVISIONAL)

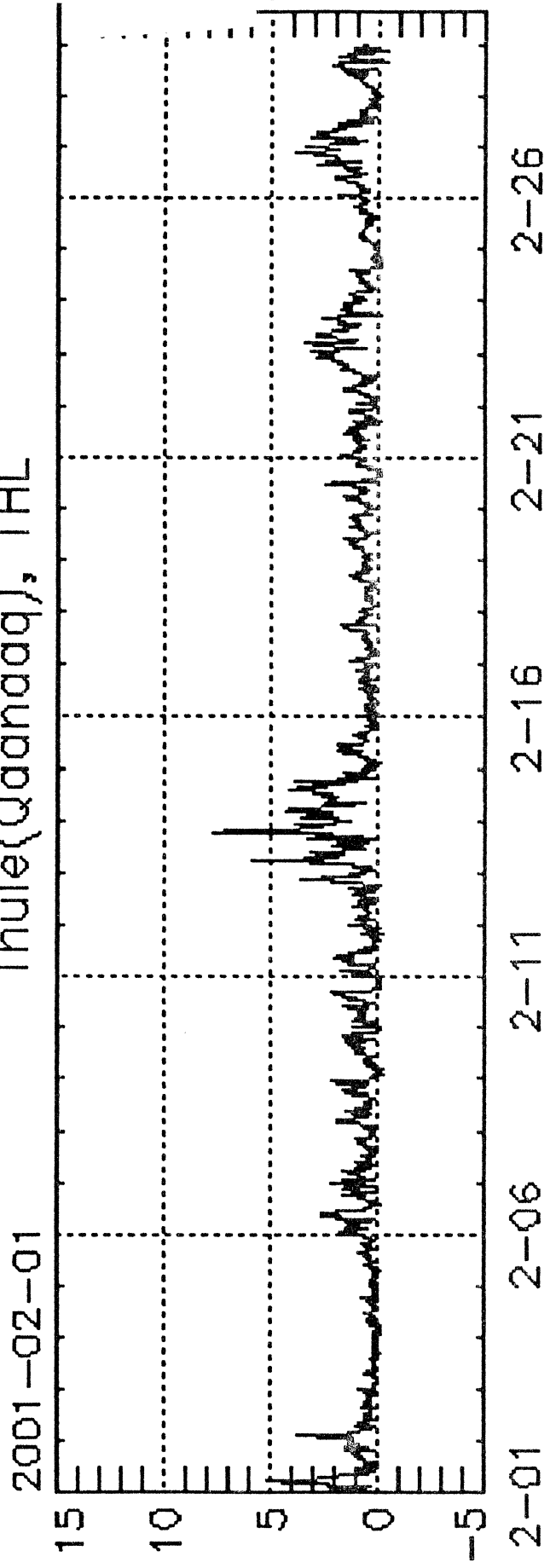
FEBRUARY 2001

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
UNIT=NT																								
1	-33	-29	-29	-31	-35	-36	-38	-41	-41	-35	-29	-31	-27	-26	-26	-23	-18	-15	-13	-13	-12	-11	-14	-15
2	-18	-21	-22	-22	-22	-21	-20	-18	-18	-14	-9	-9	-11	-11	-9	-9	-9	-9	-7	-8	-8	-9	-9	-8
3	-8	-6	-5	-3	-2	-2	0	1	1	2	2	1	-2	-4	-5	-4	-3	-2	-2	-2	-2	-2	-1	-2
4	-2	-2	-3	-1	1	3	3	2	2	3	3	3	5	6	6	7	5	5	2	1	1	3	5	7
5	6	6	6	7	7	7	10	11	12	11	9	10	10	9	8	7	10	12	13	13	14	14	12	8
6	15	15	20	19	17	24	26	-4	-31	-27	-24	-18	-12	-12	-8	-8	-4	-9	-13	-10	-3	-4	-5	-9
7	-6	-6	-10	-10	-9	-10	-10	-13	-15	-17	-12	-6	-5	-4	-8	-10	-12	-13	-13	-11	-9	-7	-6	-4
8	-1	-2	-1	-1	-6	-10	-8	-10	-11	-13	-7	0	3	3	5	6	4	4	1	-1	-10	-5	0	3
9	4	6	6	6	9	12	11	8	5	1	-1	-4	-10	-10	-3	-2	-3	-2	-1	-1	-4	-5	-3	0
10	3	2	3	6	5	5	6	3	-4	-5	-9	-8	-1	1	1	-5	-11	-12	-4	-1	-2	-1	0	1
11	2	-4	-2	1	0	1	2	-5	-9	-8	-9	-11	-8	-6	-7	-5	-1	2	5	6	4	6	6	6
12	1	1	4	6	6	9	12	12	12	9	7	10	8	6	3	0	4	1	4	9	9	8	5	2
13	12	3	2	2	11	-8	-16	-9	-14	-22	-25	-17	-12	-11	-9	-12	-13	-11	-16	-19	-40	-50	-43	-45
14	-44	-43	-43	-44	-44	-43	-41	-41	-38	-35	-37	-38	-37	-36	-32	-40	-43	-40	-28	-32	-30	-30	-33	-30
15	-27	-25	-25	-27	-28	-28	-27	-28	-25	-27	-25	-23	-20	-17	-14	-14	-12	-8	-7	-10	-10	-11	-13	-13
16	-12	-14	-14	-13	-15	-15	-11	-9	-9	-8	-7	-7	-7	-7	-9	-9	-7	-3	1	-2	-1	-2	-3	-4
17	-2	-5	-4	-4	-7	-6	-6	-6	-11	-10	-11	-8	-5	-5	-4	-3	-5	-6	-8	-7	-9	-11	-11	-8
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21	-5	-11	-14	-12	-12	-9	-13	-19	-19	-21	-21	-16	-11	-8	-4	-4	-6	-3	-4	-3	-3	-1	3	5
22	7	6	8	9	4	4	-2	-6	-9	-7	-6	-5	-2	1	0	-5	-6	-6	-7	-8	-11	-16	-21	-23
23	-22	-21	-11	-8	-8	-10	-9	-14	-24	-28	-34	-34	-27	-18	-21	-22	-16	-9	-5	-5	-9	-12	-10	-8
24	-5	-4	-4	-2	-3	-3	-2	-3	-5	-4	-7	-12	-11	-14	-11	-10	-8	-5	-3	-3	-2	-1	0	1
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28	-11	-11	-13	-12	-10	-6	0	5	6	4	-1	-1	-1	-5	-12	-9	-8	-6	-12	-15	-13	-10	-10	-15



Note: The baselines for the observatories were adjusted for secular change for the Provisional Dst values for February 2001.

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

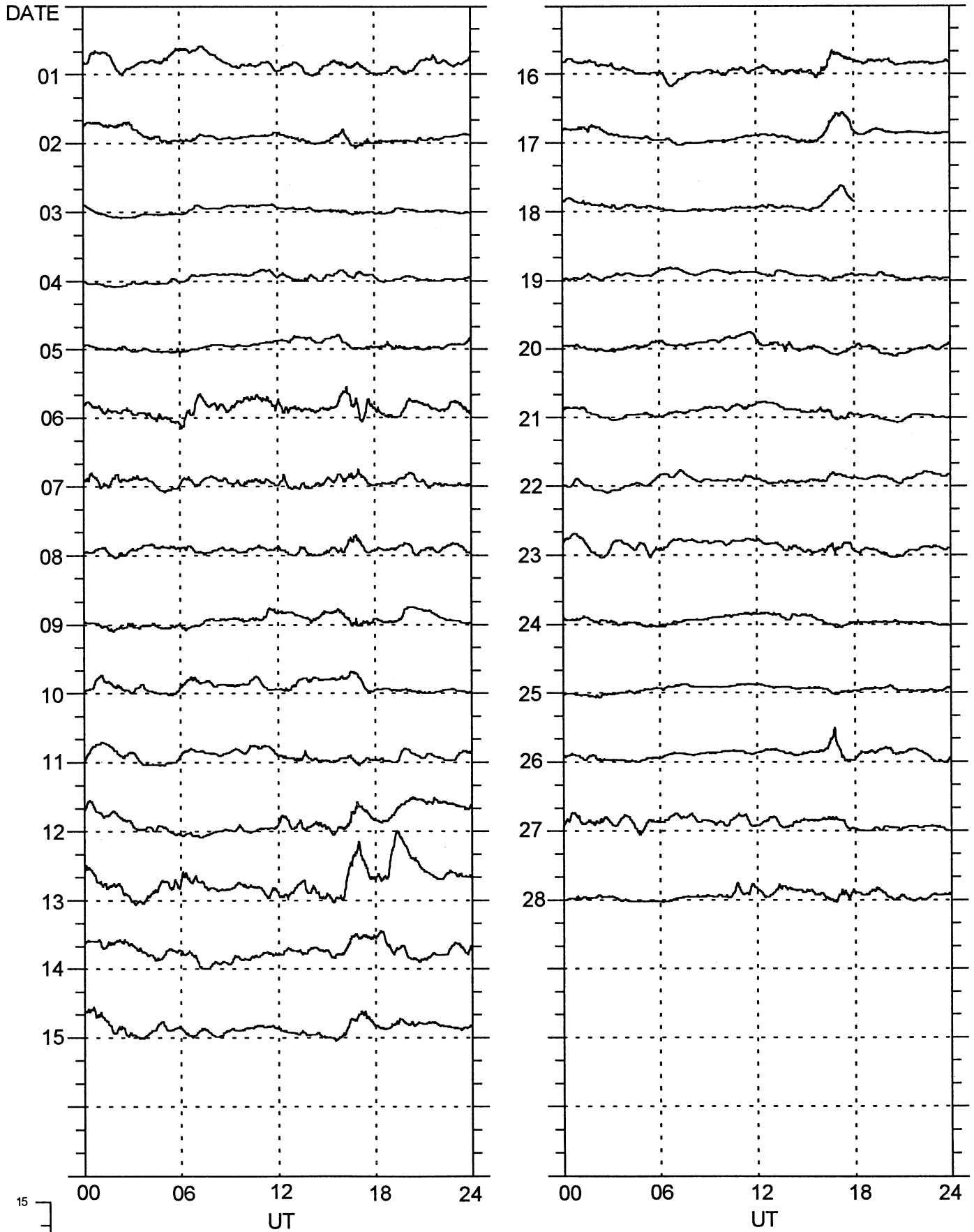


Date, mm-dd
Data source: Solar-Terrestrial Physics Division
Danish Meteorological Institute

PC-INDEX

Vostok

February, 2001



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

FEBRUARY 2001

Sta	Geomag		Commencement		SC Amplitudes			Maximum 3-Hour K Index Day(3-Hour Periods)	Ranges			End	
	Lat	Long	Day (UT)	Type	D (Min)	H (Gamma)	Z (Gamma)		D K (Min)	H (Gamma)	Z (Gamma)	Day (UT)	Hour
HYB	07.6N	05	2000		..	..	..	06(3)	5	5	121	32	07 23
KRC	16.4N	06	0137		..	..	..	06(3)	6	4	96	44	07 08
ETT	00.7S	06	0000		..	..	..		-	--	198	110	07 23
KRC	16.4N	12	2334		..	..	..	13(2,5,7,8)	5	6	105	77	14 09
UJJ	13.6N	12	2100		..	..	..		-	3	100	27	14 22
NGP	11.3N	12	2100		..	..	..		-	3	125	37	14 22
ABG	09.4N	12	2100		..	..	..	06(3) 13(7)	5	3	125	37	14 22
HYB	07.6N	12	1200		..	..	..	13(7) 14(6)	5	3	126	38	14 24
PND	02.0N	12	2100		..	..	..		-	3	161	70	14 22
TIR	00.6S	12	2100		..	..	..		-	3	227	63	14 22
ETT	00.7S	12	1600		..	..	..		-	--	245	50	14 23
UJJ	13.6N	26	1600		..	..	..		-	3	54	21	27 19
NGP	11.3N	26	1600		..	..	..		-	2	75	21	27 19
ABG	09.4N	26	1600		..	..	..	26(7,8) 27(1)	4	3	65	28	27 19
HYB	07.6N	26	0500		..	..	..	26(7) 27(1)	4	4	107	20	27 20
PND	02.0N	26	1600		..	..	..		-	2	72	32	27 19
TIR	00.6S	26	1600		..	..	..		-	3	134	48	27 19
ETT	00.7S	26	1500		..	..	..		-	--	126	62	27 15

Stations:

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

Stations reporting no storms observed: HER

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

FEBRUARY 2001

Storm Sudden Commencements (SSC)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
12	1614	B: HRB C: WNG NGK* BDV* GCK sfe: GUI	05	1509-1550	HTY+
			12	1614-1622	GUI (see SSC)
			24	1014-1027	NAG

REPORTING OBSERVATORIES (up to the 2nd of April 2001):

SOD NUR WNG NGK VAL BDV CLF HRB NAG GCK MMB EBR BJI SPT KAK HTY KNY GUI HYB ETT GNA CNB

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

