APRIL 2000 NUMBER 668 - Part I

Solar-Geophysical Data prompt reports

Data for February and March 2000
Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

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APRIL 2000 NUMBER 668 - Part I

Solar-Geophysical Data prompt reports

Data for February and March 2000

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NATIONAL GEOPHYSICAL DATA CENTER
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SOLAR-GEOPHYSICAL DATA

Number 668

(Issued in Two Parts)

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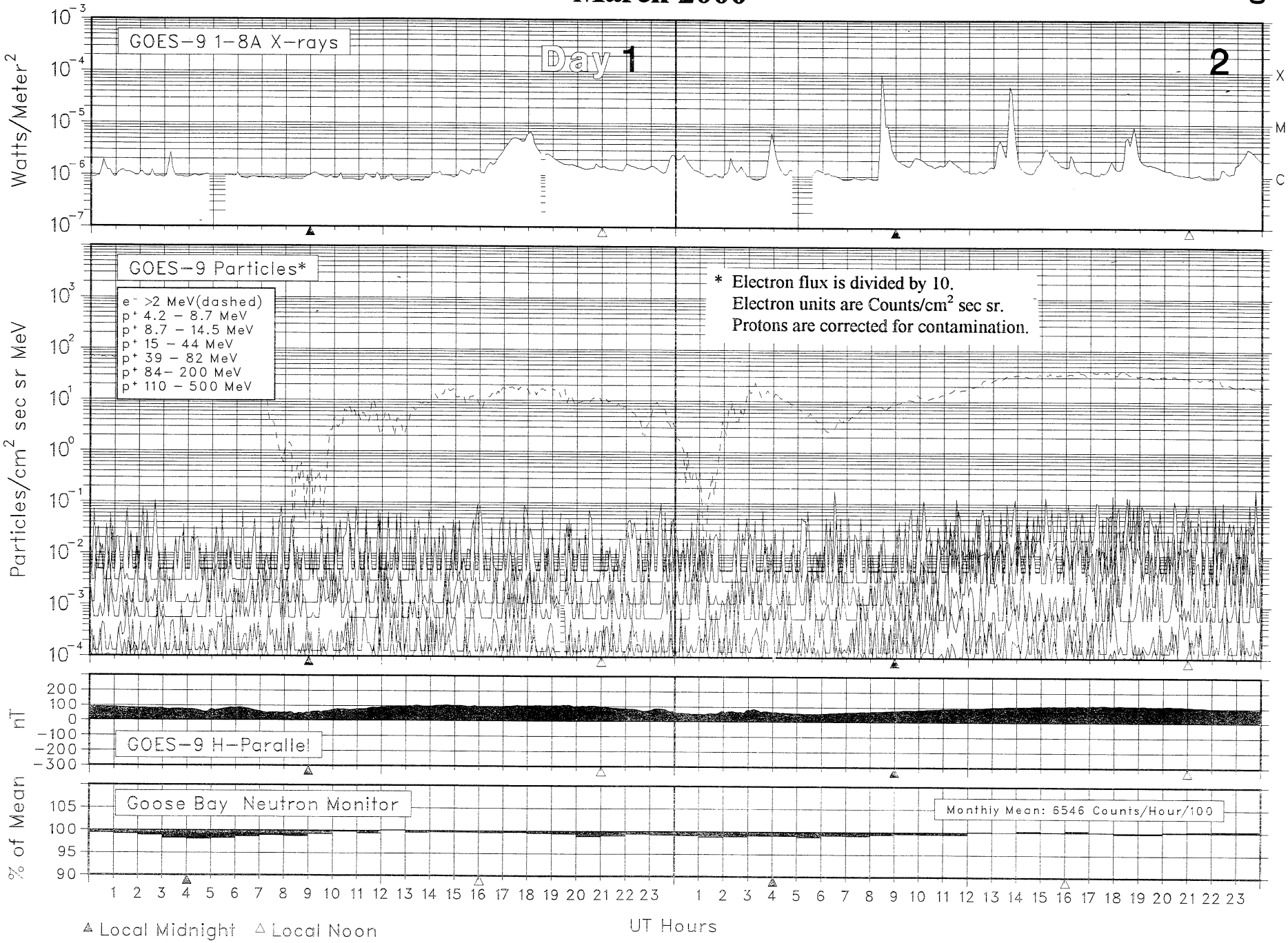

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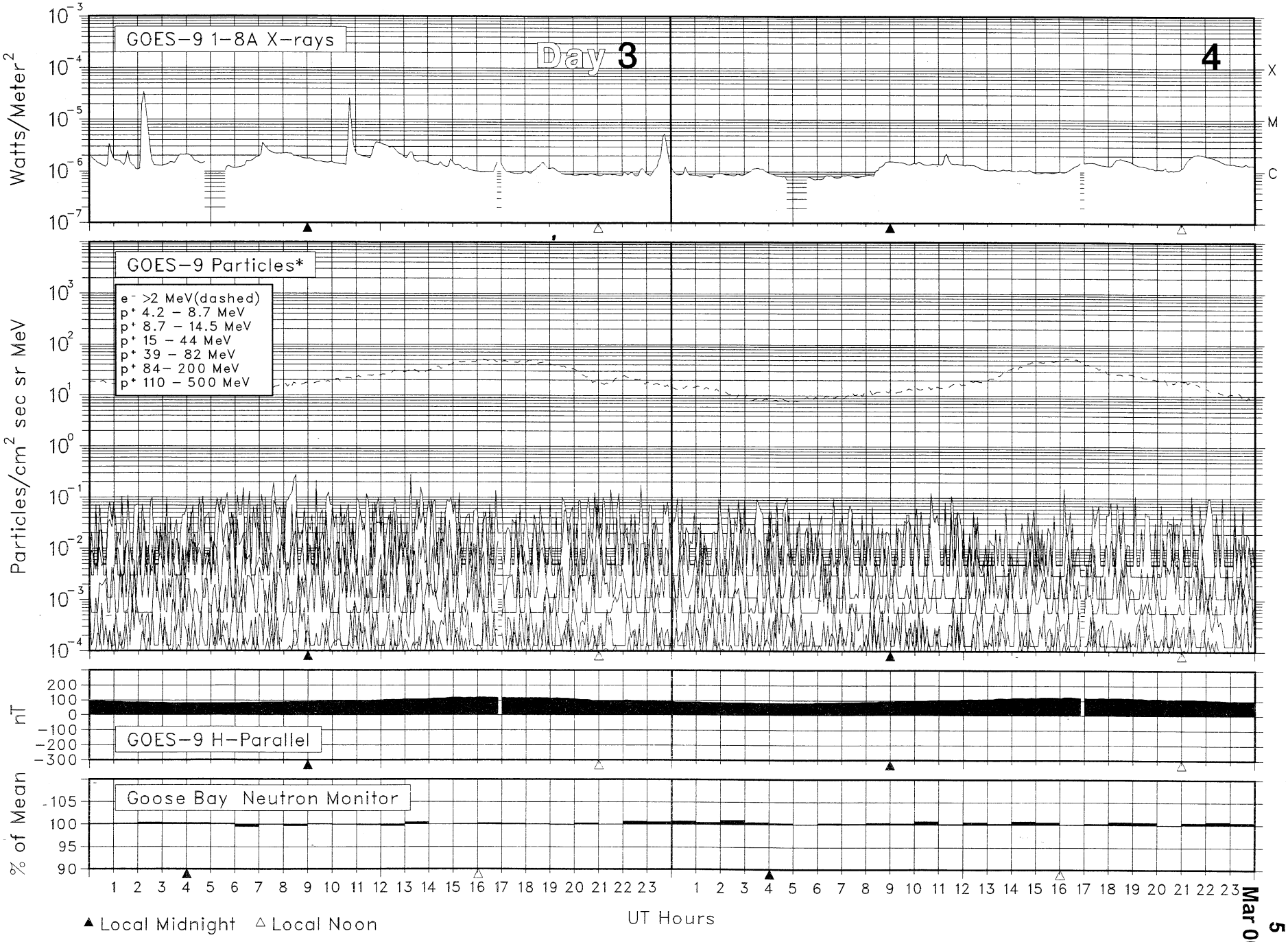

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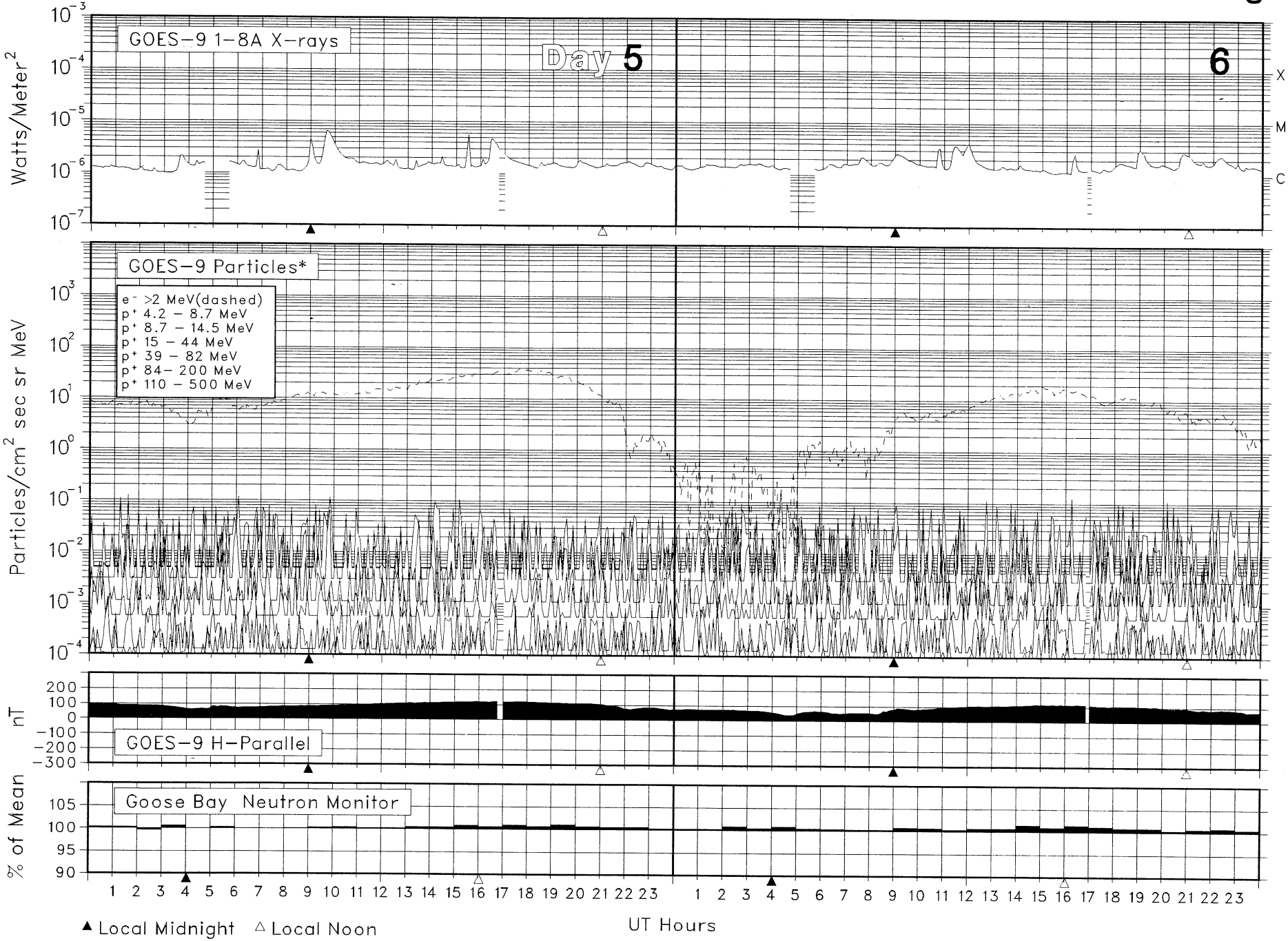

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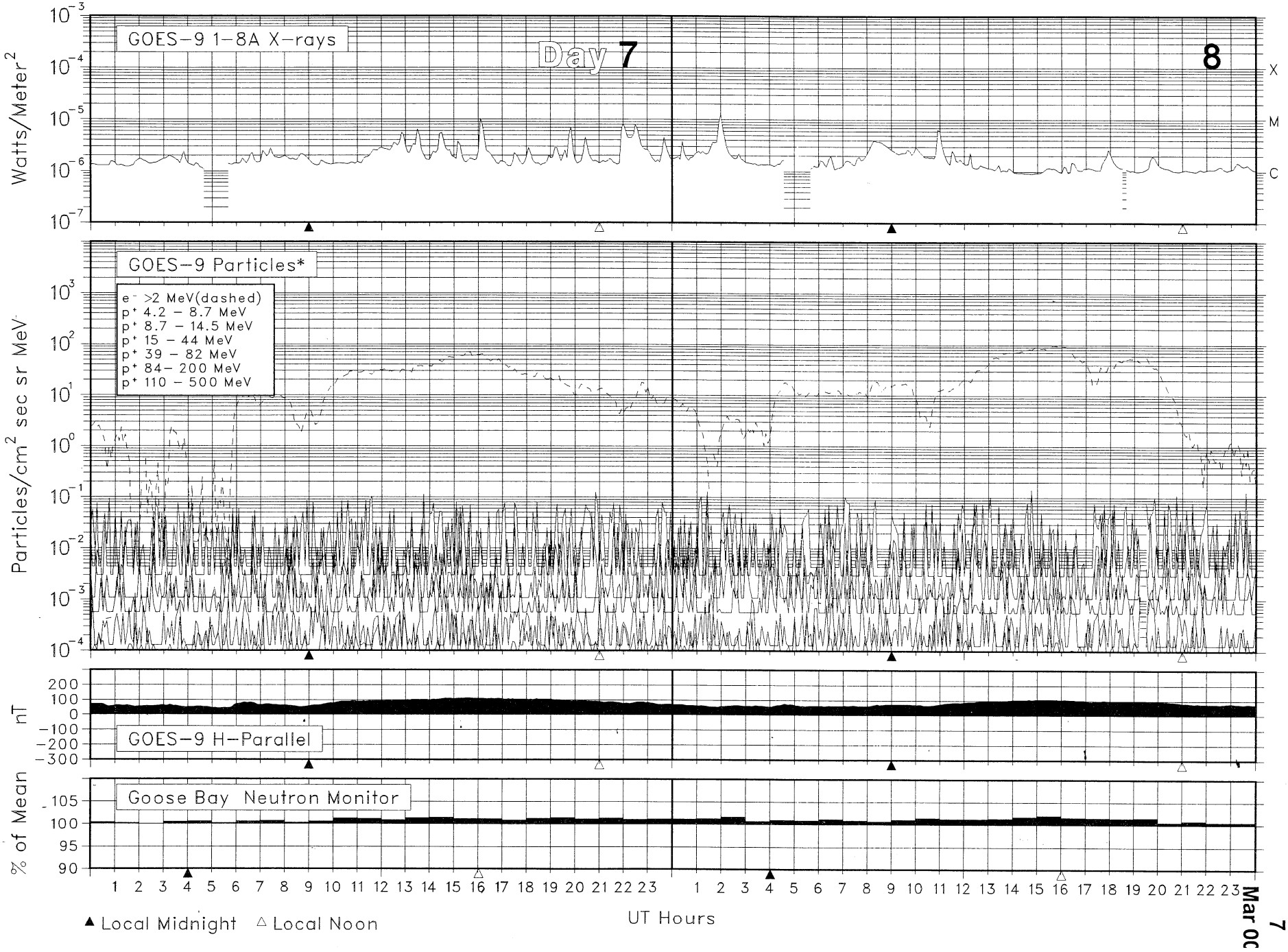

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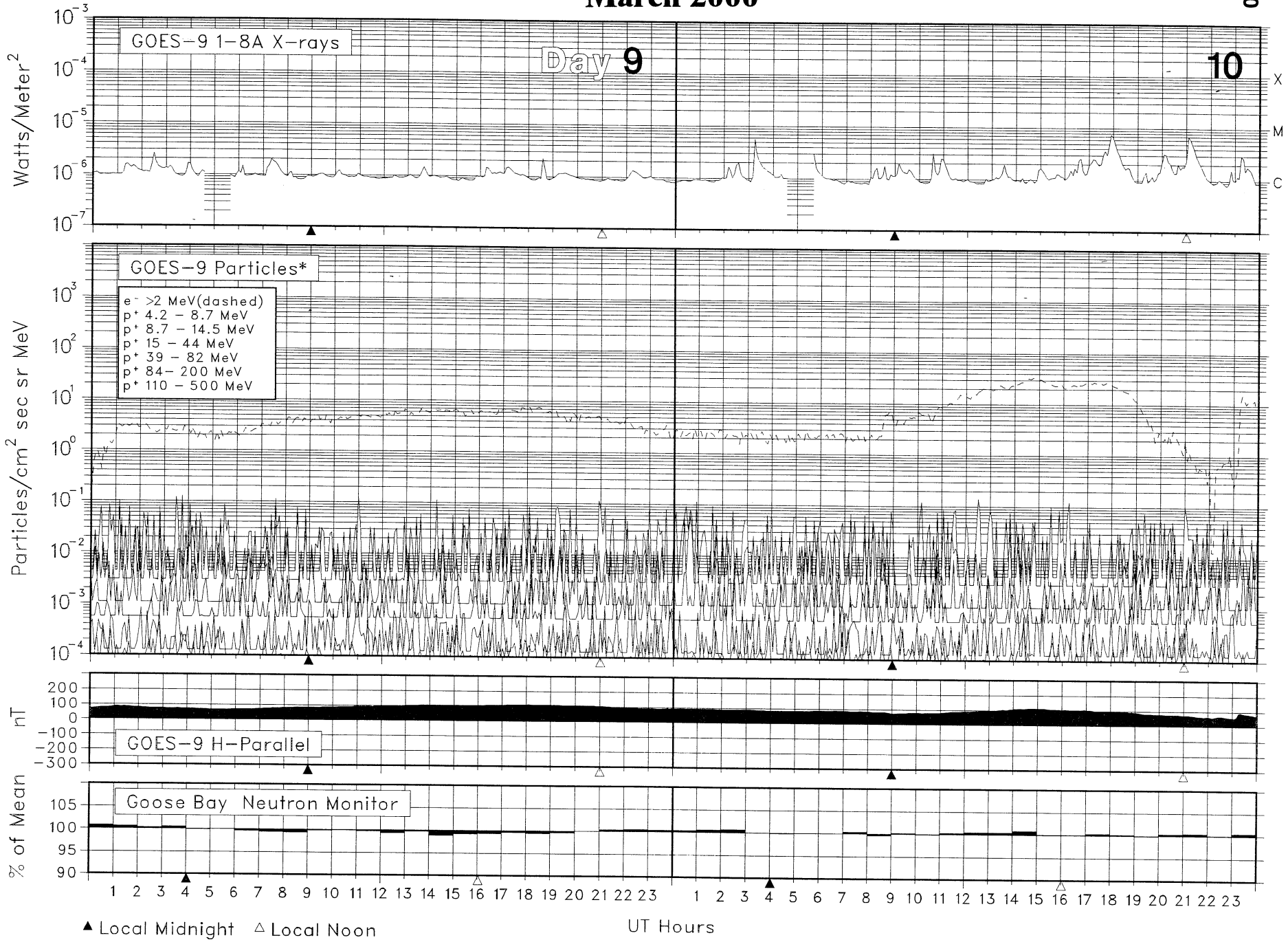
March 2000



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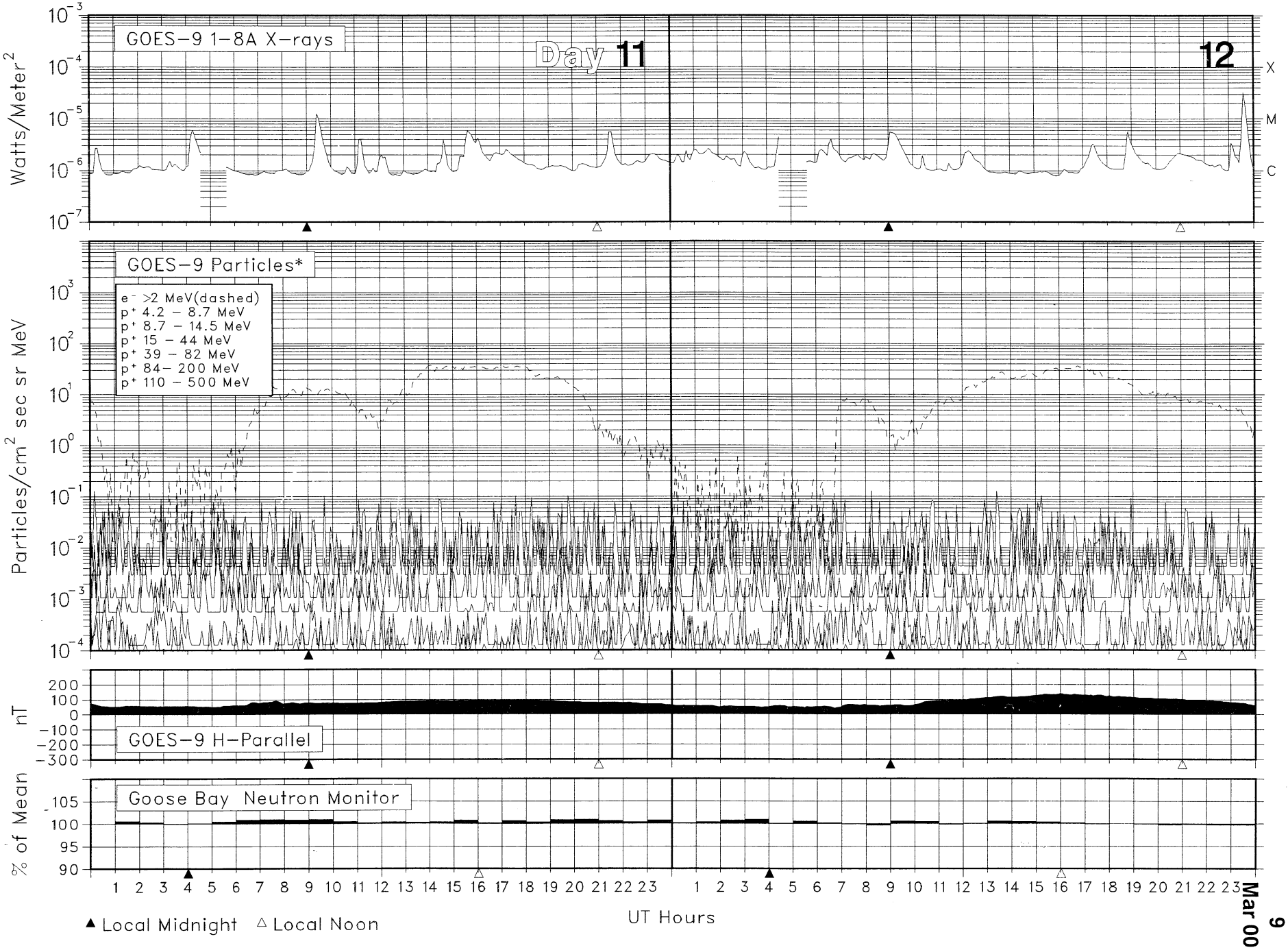

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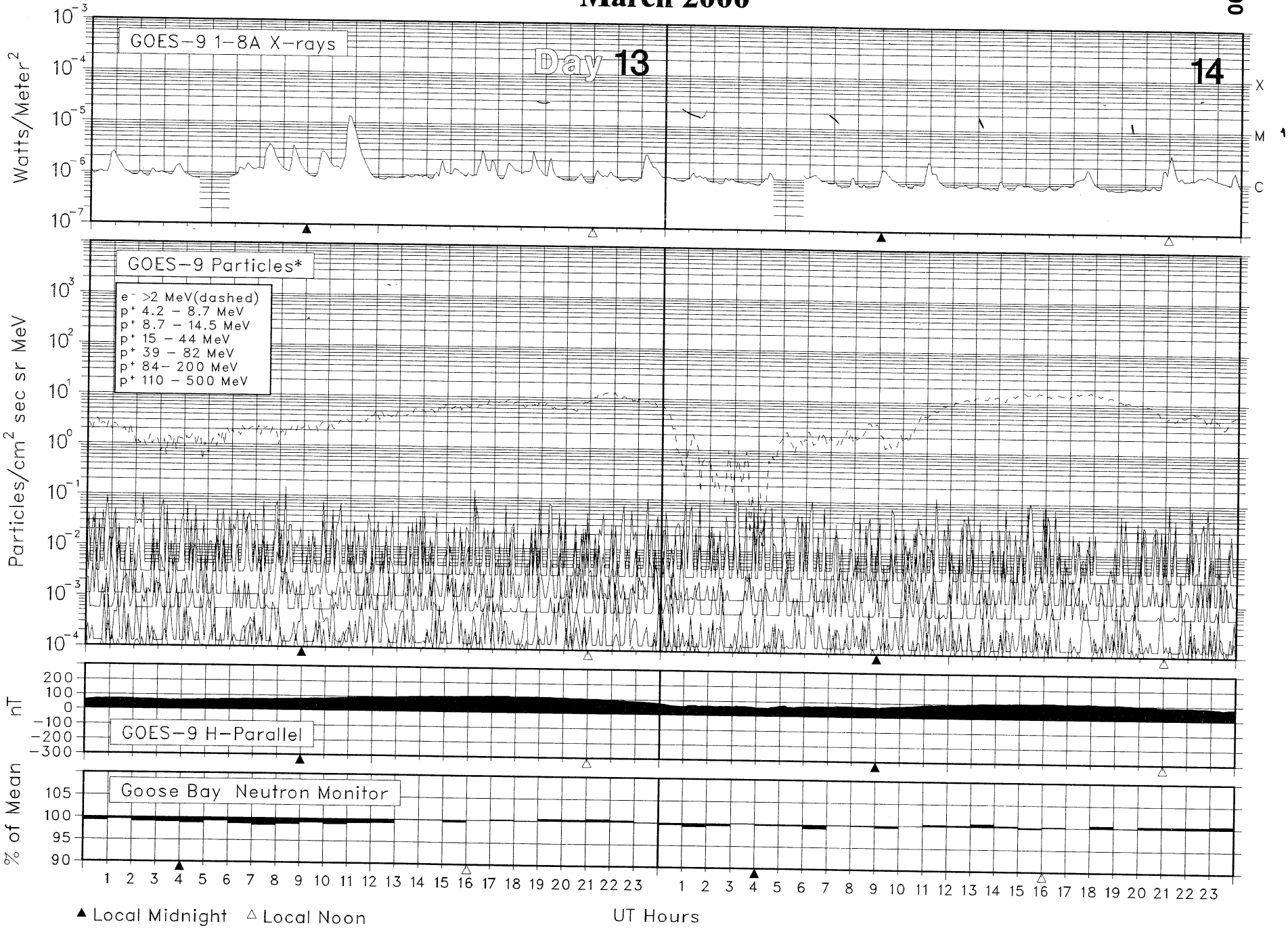

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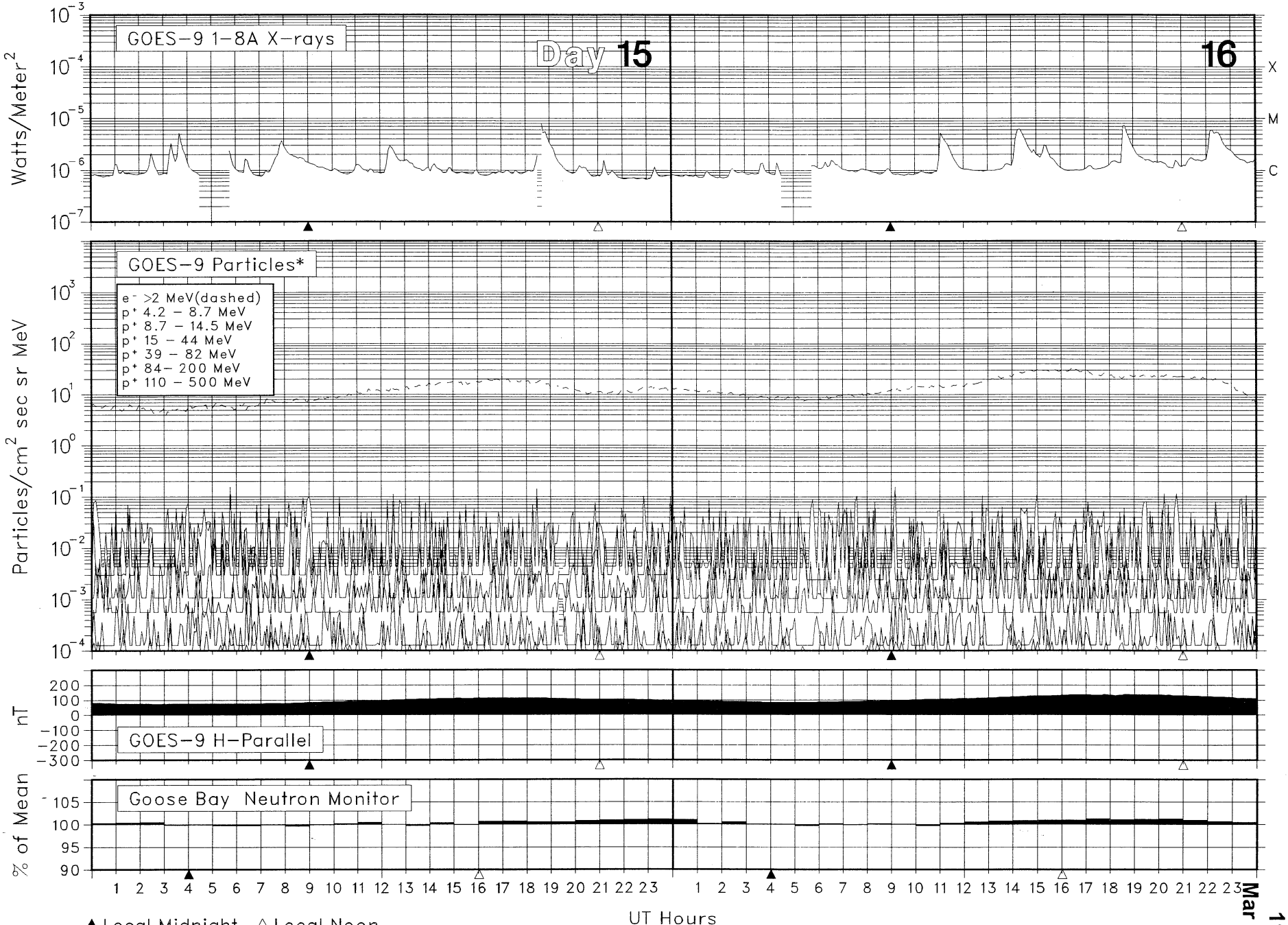
March 2000



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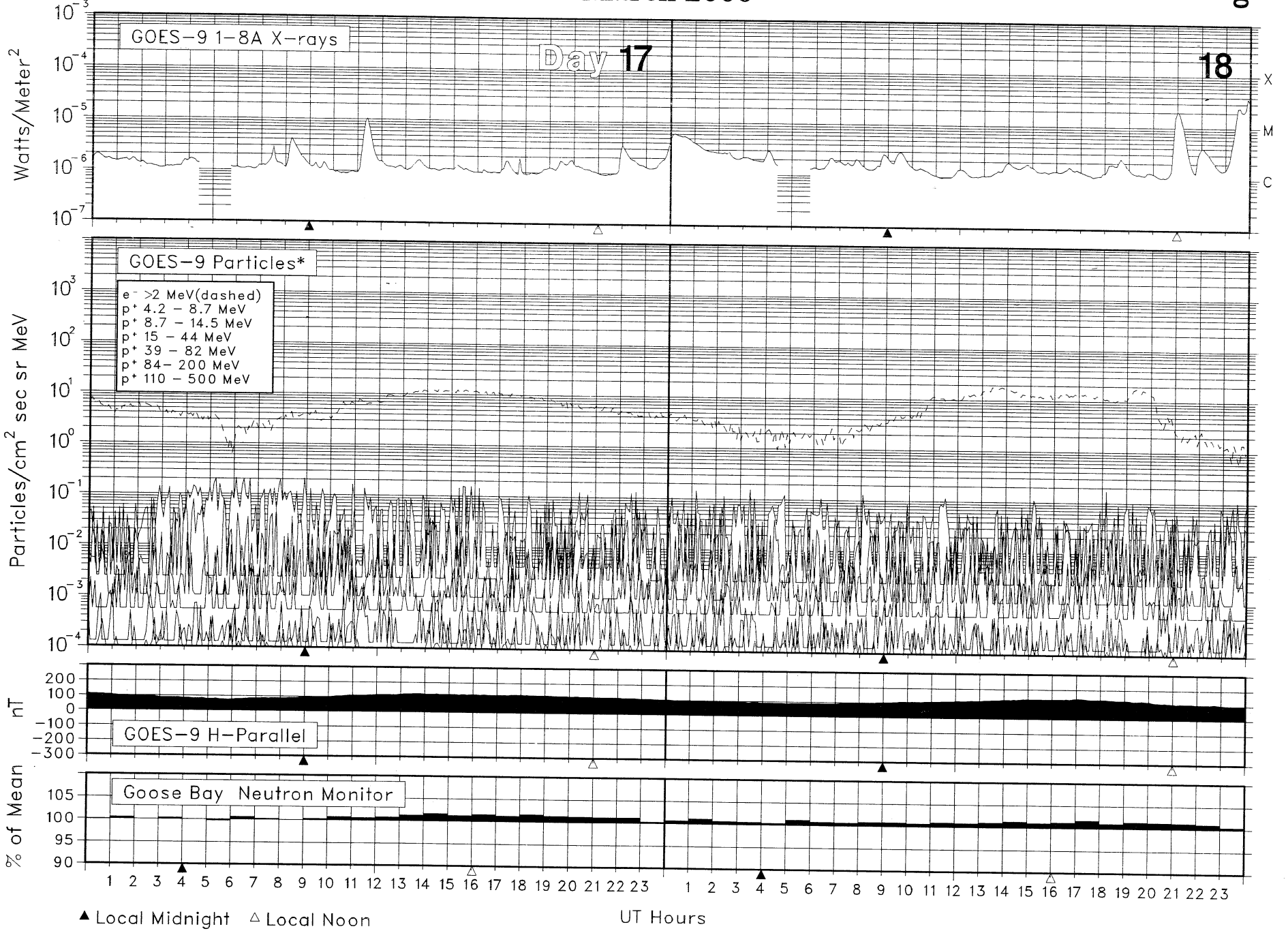

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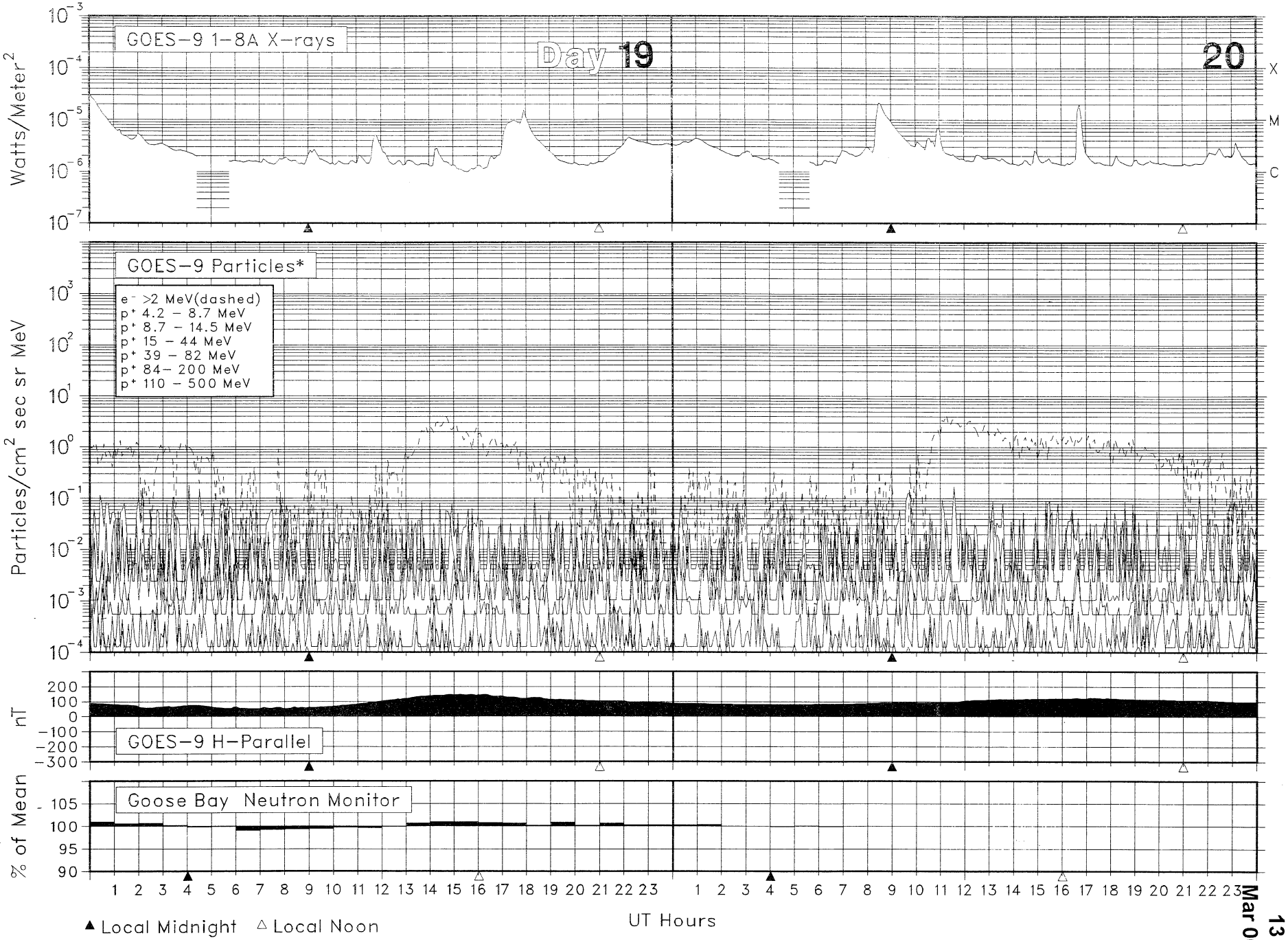
March 2000



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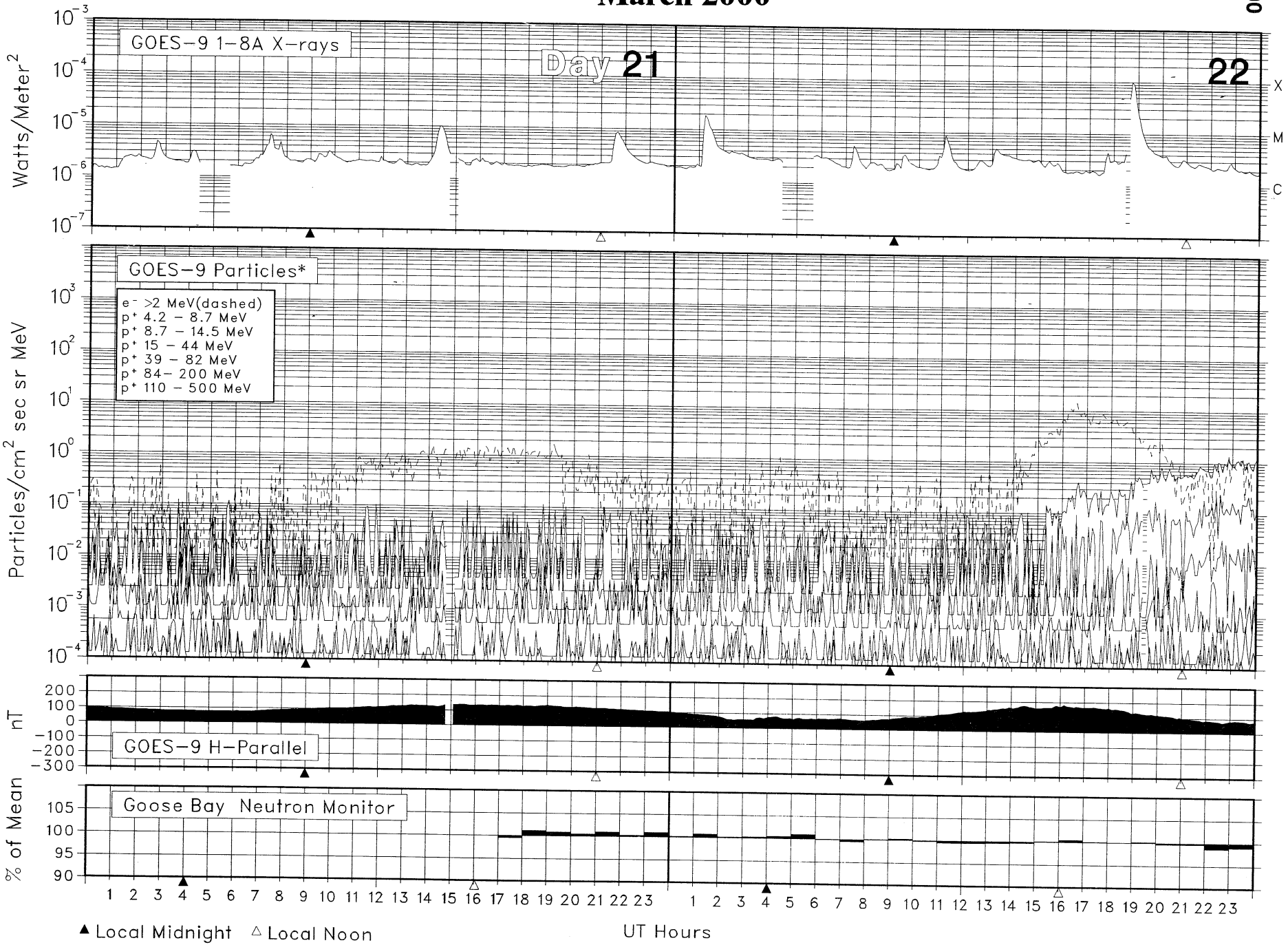

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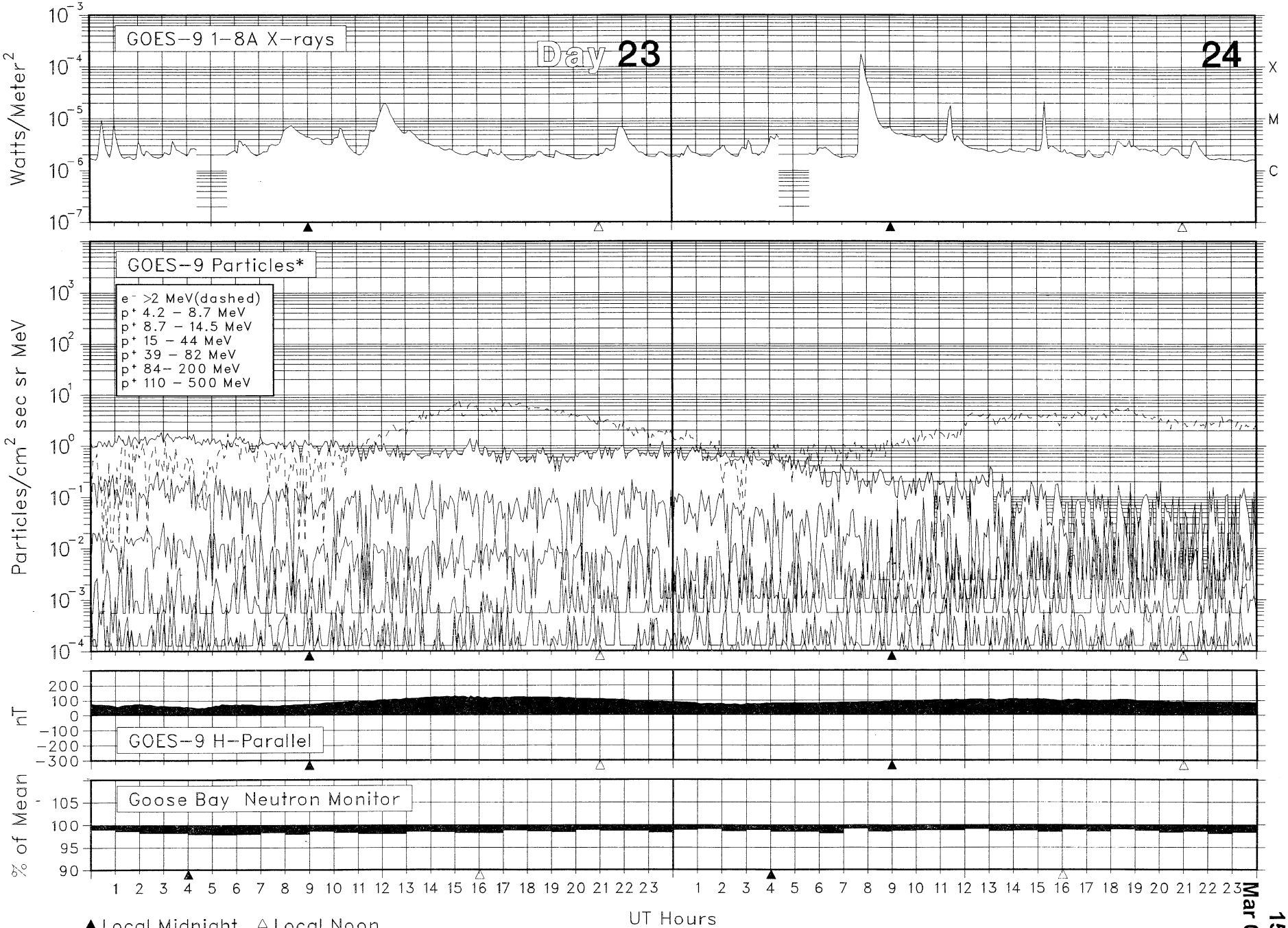

15 Mar 0

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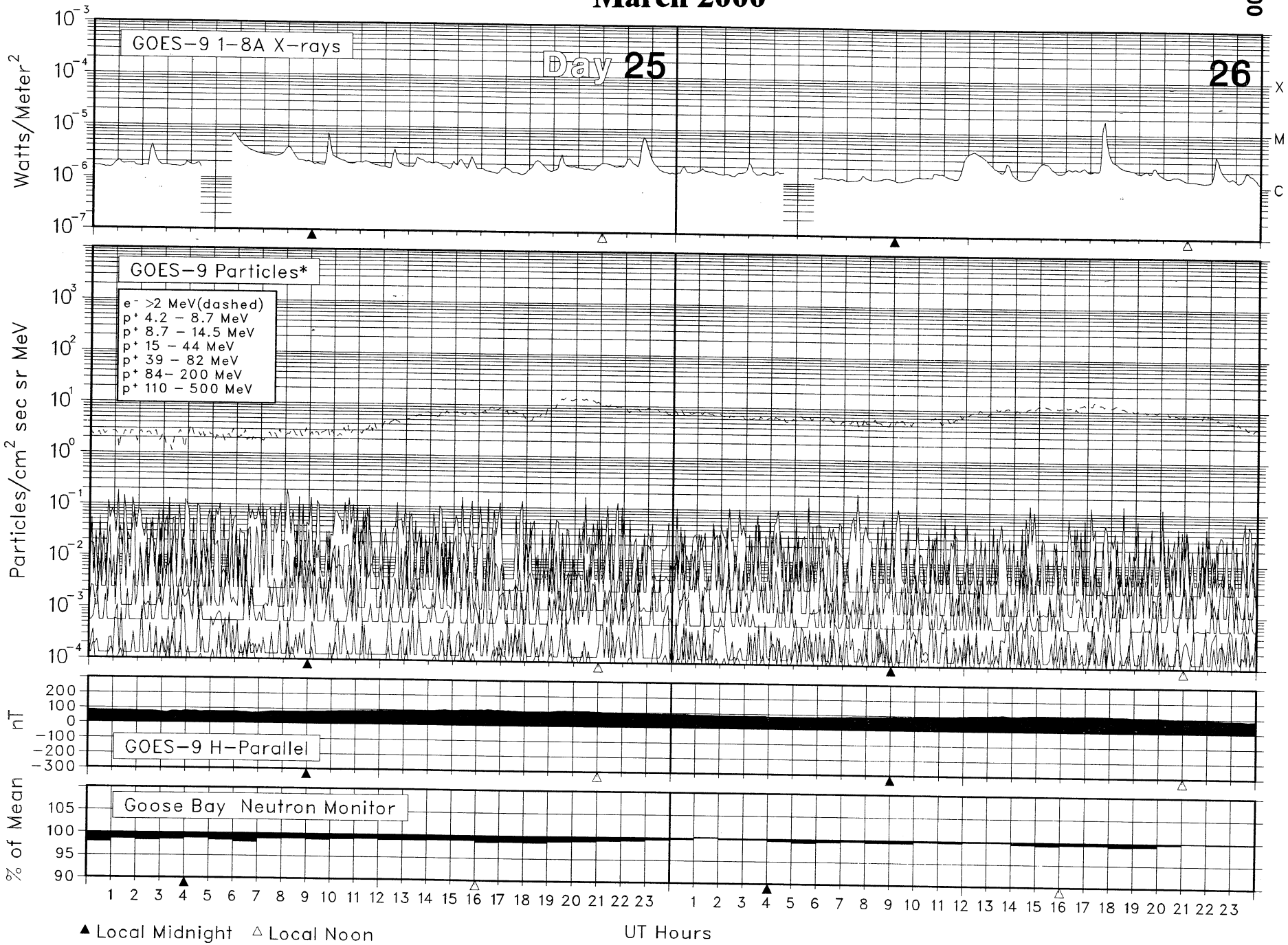

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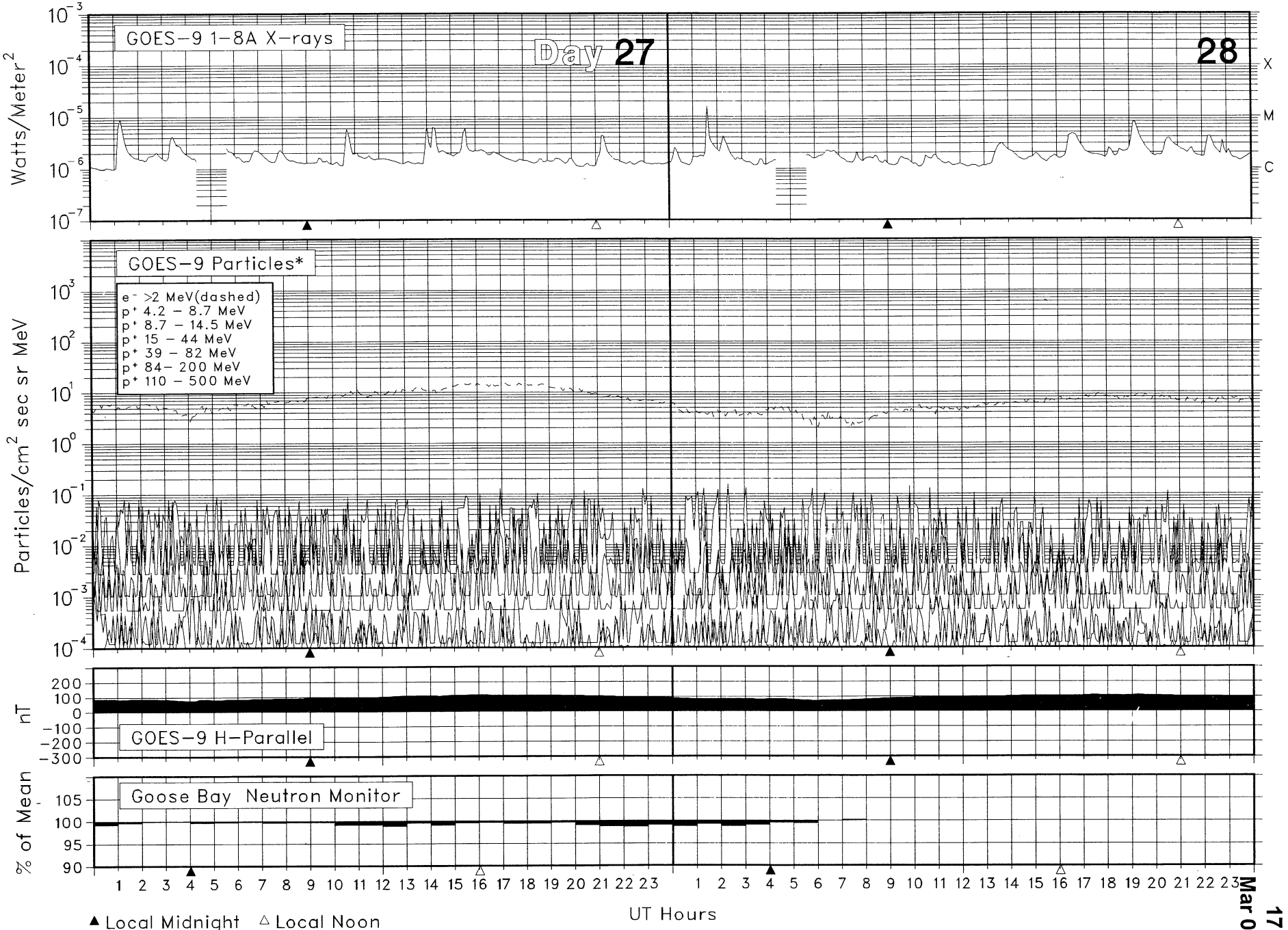

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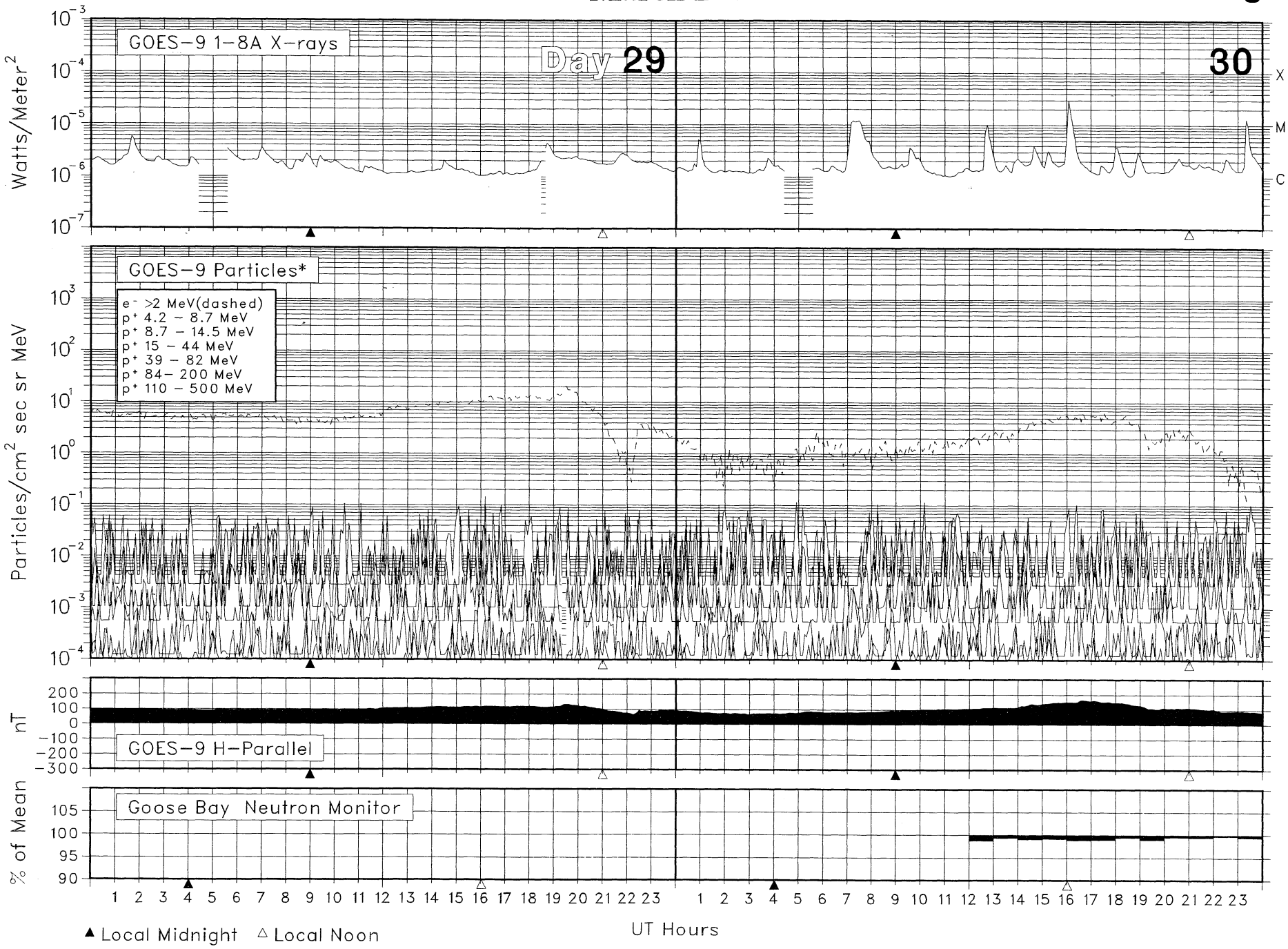

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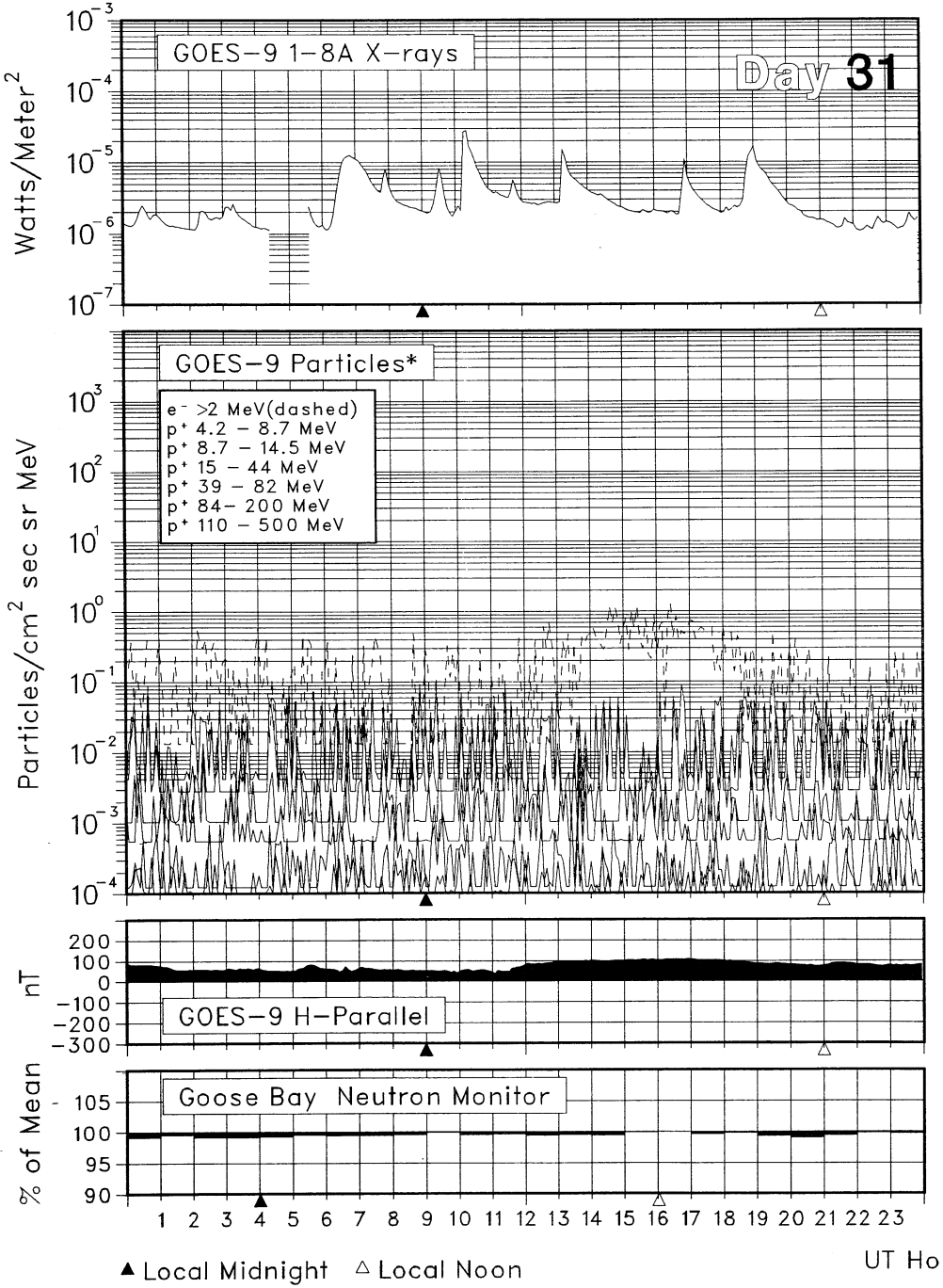

* Electron flux is divided by 10.
Electron units are Counts/cm^2 sec sr.
Protons are corrected for contamination.

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

MARCH 2000

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location Lat	Location Lon	Flares Opt	Flares M	Flares X	Date of Fcst	Region Fcst(1)	Geoadvice(1)
061	01	29	211	219	8	8879	N22	W79	0	0	0	01	Q	SOL: Eruptive
						8881	N19	W58	0	0	0	01	Q	MAG: Quiet
						8882	S18	W31	4	0	0	01	E	PRO: Quiet
						8883	N12	W36	0	0	0	01	Q	
						8886	S13	W51	0	0	0	01	Q	
						8888	N37	W07	0	0	0	01	Q	
						8889	N21	E06	0	0	0	01	Q	
						8891	S16	E21	4	0	0	01	E	
						8892	N05	E27	0	0	0	01	Q	
						8893	S19	W67	0	0	0	01	Q	
						8894	S34	W83	0	0	0	01	Q	
						8895	N13	W48	0	0	0	01	Q	
						8896	N18	E62	0	0	0	01	Q	
062	02	01	247	233	18	8881	N19	W71	0	0	0	02	Q	SOL: Eruptive
						8882	S15	W45	2	0	0	02	E	MAG: Quiet
						8883	N12	W48	0	0	0	02	Q	PRO: Quiet
						8886	S13	W64	0	0	0	02	Q	
						8888	N37	W20	0	0	0	02	Q	
						8889	N20	W07	1	0	0	02	Q	
						8891	S16	E08	0	0	0	02	E	
						8892	N06	E14	0	0	0	02	Q	
						8894	N19	E51	0	0	0	02	Q	
						8895	N14	W62	0	0	0	02	Q	
						8896	N18	E52	0	0	0	02	Q	
						8897	S35	W12	0	0	0	02	Q	
063	03	02	209	213	12	8882	S16	W58	5	1	1	03	A	SOL: Eruptive
						8883	N12	W62	1	0	0	03	A	MAG: Active
						8886	S13	W77	8	1	0	03	A	PRO: Quiet
						8888	N37	W27	0	0	0	03	A	
						8889	N20	W20	0	0	0	03	A	
						8891	S15	W04	4	0	0	03	A	
						8892	N07	E01	0	0	0	03	A	
						8896	N19	E39	0	0	0	03	A	
						8897	S35	W26	0	0	0	03	A	
						8898	S15	E71	0	0	0	03	A	
064	04	03	189	204	5	8882	S16	W71	5	1	0	04	A	SOL: Active
						8883	N12	W74	1	0	0	04	A	MAG: Quiet
						8886	S12	W87	5	1	0	04	A	PRO: Quiet
						8889	N20	W33	2	0	0	04	A	
						8891	S15	W17	1	0	0	04	A	
						8892	N06	W12	0	0	0	04	A	
						8896	N19	E26	0	0	0	04	A	
						8897	S35	W38	0	0	0	04	A	
						8898	S16	E60	0	0	0	04	A	
						8899	S11	E33	1	0	0	04	A	
065	05	04	167	200	3	8882	S15	W83	0	0	0	05	E	SOL: Eruptive
						8883	N12	W85	0	0	0	05	Q	MAG: Quiet
						8889	N20	W47	1	0	0	05	Q	PRO: Quiet
						8891	S15	W29	0	0	0	05	E	
						8896	N19	E12	0	0	0	05	Q	
						8897	S36	W51	0	0	0	05	Q	
						8898	S15	E48	0	0	0	05	Q	
						8899	S11	E19	1	0	0	05	Q	
						8900	S15	E16	4	0	0	05	E	
066	06	05	181	220	10	8882	S16	W96	0	0	0	06	Q	SOL: Eruptive
						8889	N20	W61	0	0	0	06	Q	MAG: Quiet
						8891	S16	W43	1	0	0	06	E	PRO: Quiet
						8896	N19	W03	0	0	0	06	Q	
						8897	S36	W64	0	0	0	06	Q	
						8898	S13	E34	15	0	0	06	E	
						8899	S10	E06	0	0	0	06	Q	
						8900	S16	E02	0	0	0	06	Q	

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

MARCH 2000

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location Lat	Location Lon	Flares Opt	Flares M	Flares X	Date of Fcst	Region Fcst(1)	Geoadvice(1)
						8901	S13	E71	0	0	0	06	Q	
067	07	06	172	222	12	8889	N19	W74	2	0	0	07	E	SOL: Eruptive
						8891	S16	W58	1	0	0	07	E	MAG: Quiet
						8896	N20	W17	0	0	0	07	Q	PRO: Quiet
						8897	S37	W82	0	0	0	07	Q	
						8898	S13	E20	1	0	0	07	E	
						8899	S11	W08	0	0	0	07	Q	
						8900	S15	W12	0	0	0	07	E	
						8901	S14	E57	1	0	0	07	Q	
						8902	S18	E72	0	0	0	07	Q	
068	08	07	164	222	16	8889	N19	W82	0	0	0	08	Q	SOL: Eruptive
						8891	S17	W67	2	0	0	08	E	MAG: Quiet
						8897	S37	W95	0	0	0	08	Q	PRO: Quiet
						8898	S13	E07	1	0	0	08	E	
						8899	S11	W20	0	0	0	08	Q	
						8900	S16	W26	3	0	0	08	E	
						8901	S15	E41	0	0	0	08	Q	
						8902	S17	E60	0	0	0	08	Q	
						8903	S12	E23	0	0	0	08	Q	
069	09	08	212	215	13	8891	S16	W83	0	0	0	09	E	SOL: Eruptive
						8898	S13	W06	0	0	0	09	E	MAG: Quiet
						8899	S12	W33	1	0	0	09	Q	PRO: Quiet
						8900	S15	W38	2	0	0	09	E	
						8901	S13	E29	0	0	0	09	Q	
						8902	S18	E49	0	0	0	09	Q	
						8903	S12	E09	0	0	0	09	Q	
						8904	N26	W06	0	0	0	09	Q	
						8905	S06	E22	0	0	0	09	Q	
						8906	S17	E68	0	0	0	09	E	
						8907	S17	E22	0	0	0	09	Q	
070	10	09	225	206	3	8898	S13	W20	0	0	0	10	E	SOL: Eruptive
						8899	S12	W48	0	0	0	10	Q	MAG: Quiet
						8900	S15	W51	0	0	0	10	E	PRO: Quiet
						8901	S12	E15	0	0	0	10	Q	
						8902	S18	E35	0	0	0	10	Q	
						8903	S12	W03	0	0	0	10	Q	
						8904	N24	W19	1	0	0	10	Q	
						8905	S06	E08	0	0	0	10	Q	
						8906	S16	E55	2	0	0	10	E	
						8907	S18	E06	0	0	0	10	Q	
						8908	S19	E71	0	0	0	10	Q	
071	11	10	231	203	9	8898	S13	W32	1	0	0	11	Q	SOL: Eruptive
						8899	S13	W61	4	0	0	11	Q	MAG: Quiet
						8900	S16	W63	4	0	0	11	E	PRO: Quiet
						8901	S12	E01	0	0	0	11	Q	
						8902	S18	E22	0	0	0	11	Q	
						8903	S12	W17	0	0	0	11	Q	
						8904	N25	W32	3	0	0	11	Q	
						8905	S06	W05	0	0	0	11	Q	
						8906	S16	E44	13	0	0	11	E	
						8907	S16	W06	0	0	0	11	Q	
						8908	S19	E59	0	0	0	11	Q	
072	12	11	178	203	12	8898	S13	W45	0	0	0	12	Q	SOL: Eruptive
						8900	S17	W74	1	0	0	12	Q	MAG: Quiet
						8901	S12	W13	0	0	0	12	Q	PRO: Quiet
						8902	S17	E10	0	0	0	12	Q	
						8903	S12	W31	0	0	0	12	Q	
						8904	N24	W45	2	0	0	12	Q	
						8906	S16	E31	7	1	0	12	E	
						8907	S18	W20	0	0	0	12	Q	
						8908	S19	E45	0	0	0	12	Q	

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						8909	S29	E76	0	0	0	12	Q	
073	13	12	188	203	16	8898	S13	W59	3	0	0	13	Q	SOL: Active
						8901	S12	W22	0	0	0	13	Q	MAG: Quiet
						8902	S17	W03	0	0	0	13	Q	PRO: Quiet
						8903	S12	W46	1	0	0	13	Q	
						8904	N23	W59	6	0	0	13	E	
						8906	S15	E18	6	1	0	13	E	
						8907	S17	W35	0	0	0	13	Q	
						8908	S20	E33	0	0	0	13	Q	
						8909	S29	E64	0	0	0	13	Q	
						8910	N11	E68	0	0	0	13	Q	
074	14	13	172	188	4	8898	S14	W70	1	0	0	14	Q	SOL: Active
						8901	S12	W37	1	0	0	14	Q	MAG: Quiet
						8902	S18	W17	0	0	0	14	Q	PRO: Quiet
						8903	S12	W58	0	0	0	14	Q	
						8904	N24	W70	1	0	0	14	Q	
						8906	S16	E06	7	1	0	14	E	
						8907	S17	W48	0	0	0	14	Q	
						8908	S20	E21	0	0	0	14	Q	
						8909	S29	E55	0	0	0	14	Q	
						8910	N09	E56	2	0	0	14	Q	
075	15	14	193	183	6	8898	S13	W83	1	0	0	15	Q	SOL: Active
						8901	S13	W49	1	0	0	15	Q	MAG: Quiet
						8902	S17	W30	0	0	0	15	Q	PRO: Quiet
						8903	S12	W71	0	0	0	15	Q	
						8904	N24	W83	0	0	0	15	Q	
						8906	S16	W09	9	0	0	15	E	
						8908	S23	E08	0	0	0	15	Q	
						8909	S28	E40	0	0	0	15	Q	
						8910	N10	E43	7	0	0	15	Q	
						8911	N11	W43	0	0	0	15	Q	
						8912	N15	W02	0	0	0	15	Q	
						8913	S14	E66	0	0	0	15	Q	
076	16	15	167	179	1	8898	S12	W89	0	0	0	16	Q	SOL: Active
						8901	S14	W60	2	0	0	16	Q	MAG: Quiet
						8903	S12	W85	0	0	0	16	Q	PRO: Quiet
						8906	S16	W20	5	1	0	16	E	
						8909	S28	E27	0	0	0	16	Q	
						8910	N11	E31	0	0	0	16	Q	
						8911	N12	W55	0	0	0	16	Q	
						8913	S16	E57	0	0	0	16	Q	
077	17	16	138	184	1	8901	S14	W75	0	0	0	17	Q	SOL: Active
						8906	S16	W37	5	0	0	17	E	MAG: Quiet
						8909	S28	E12	0	0	0	17	Q	PRO: Quiet
						8910	N11	E18	5	0	0	17	Q	
						8911	N10	W68	0	0	0	17	Q	
						8913	S16	E42	2	0	0	17	Q	
						8914	N16	E05	0	0	0	17	Q	
						8915	N22	E76	0	0	0	17	Q	
078	18	17	152	192	5	8901	S15	W86	0	0	0	18	Q	SOL: Active
						8906	S16	W49	6	1	0	18	E	MAG: Quiet
						8909	S29	E01	0	0	0	18	Q	PRO: Quiet
						8910	N11	E05	3	0	0	18	E	
						8911	N08	W79	0	0	0	18	Q	
						8913	S16	E30	2	0	0	18	Q	
						8915	N23	E62	0	0	0	18	Q	
						8916	N12	E74	0	0	0	18	Q	
079	19	18	142	195	5	8906	S17	W62	3	2	0	19	E	SOL: Eruptive
						8909	S28	W16	1	0	0	19	Q	MAG: Quiet
						8910	N11	W10	4	1	0	19	E	PRO: Quiet

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						8913	S16	E17	0	0	0	19	Q	
						8915	N23	E49	0	0	0	19	Q	
						8916	N13	E64	0	0	0	19	Q	
						8917	N20	E18	0	0	0	19	Q	
080	20	19	208	208	9	8906	S17	W75	5	1	0	20	A	SOL: Eruptive
						8909	S29	W25	1	0	0	20	A	MAG: Quiet
						8910	N12	W23	11	0	0	20	A	PRO: Quiet
						8913	S16	E04	0	0	0	20	A	
						8915	N23	E36	0	0	0	20	A	
						8916	N14	E53	3	0	0	20	A	
						8917	N19	E04	2	0	0	20	A	
						8918	N32	W14	2	0	0	20	A	
						8919	S22	E58	0	0	0	20	A	
081	21	20	240	210	4	8906	S16	W88	0	0	0	21	E	SOL: Active
						8909	S28	W41	1	0	0	21	Q	MAG: Quiet
						8910	N13	W35	10	1	0	21	E	PRO: Quiet
						8913	S16	W11	0	0	0	21	Q	
						8915	N23	E24	0	0	0	21	Q	
						8916	N13	E40	2	0	0	21	E	
						8917	N19	W08	0	0	0	21	E	
						8918	N32	W27	4	0	0	21	E	
						8920	N24	E55	0	0	0	21	Q	
						8921	S15	E71	0	0	0	21	Q	
082	22	21	191	231	3	8910	N12	W49	8	0	0	22	E	SOL: Active
						8913	S16	W24	0	0	0	22	E	MAG: Quiet
						8915	N22	E13	0	0	0	22	Q	PRO: Quiet
						8916	N13	E27	1	0	0	22	E	
						8917	N19	W22	0	0	0	22	E	
						8918	N32	W41	6	1	0	22	E	
						8919	S21	E30	0	0	0	22	Q	
						8920	N24	E40	0	0	0	22	Q	
						8921	S16	E60	0	0	0	22	Q	
						8922	N14	E57	0	0	0	22	Q	
083	23	22	212	234	10	8910	N13	W61	7	1	1	23	E	SOL: Active
						8913	S16	W38	2	0	0	23	E	MAG: Quiet
						8915	N23	W01	0	0	0	23	Q	PRO: Quiet
						8916	N12	E14	0	0	0	23	Q	
						8917	N20	W35	3	0	0	23	E	
						8918	N32	W53	5	0	0	23	E	
						8920	N24	E30	0	0	0	23	Q	
						8921	S17	E48	4	0	0	23	Q	
						8922	N13	E44	0	0	0	23	Q	
						8923	S27	E43	0	0	0	23	Q	
084	24	23	236	224	12	8910	N13	W75	8	1	0	24	E	SOL: Active
						8913	S16	W50	2	0	0	24	E	MAG: Quiet
						8915	N23	W14	1	0	0	24	Q	PRO: Quiet
						8916	N13	E01	3	0	0	24	Q	
						8917	N19	W47	3	0	0	24	E	
						8918	N32	W66	1	0	0	24	Q	
						8920	N23	E16	0	0	0	24	Q	
						8921	S17	E37	2	0	0	24	E	
						8922	N14	E32	0	0	0	24	Q	
						8923	S26	E32	0	0	0	24	Q	
						8924	N13	E70	0	0	0	24	Q	
						8925	S17	E76	0	0	0	24	Q	
						8926	S10	W18	0	0	0	24	Q	
						8927	N18	E00	8	0	0	24	Q	
085	25	24	230	219	9	8910	N13	W84	1	0	1	25	A	SOL: Active
						8913	S15	W64	0	0	0	25	A	MAG: Quiet
						8915	N23	W27	0	0	0	25	A	PRO: Quiet
						8916	N12	W14	0	0	0	25	A	

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						8917	N20	W61	1	0	0	25	A	
						8918	N32	W76	0	0	0	25	A	
						8921	S17	E23	1	0	0	25	A	
						8922	N12	E17	0	0	0	25	A	
						8923	S26	E18	0	0	0	25	A	
						8924	N12	E55	0	0	0	25	A	
						8925	S17	E63	1	0	0	25	A	
						8926	S10	W31	3	0	0	25	A	
						8927	N17	W14	1	0	0	25	A	
						8928	N19	E60	2	1	0	25	A	
086	26	25	243	205	8	8913	S16	W78	0	0	0	26	Q	SOL: Active
						8915	N23	W41	0	0	0	26	Q	MAG: Quiet
						8916	N12	W27	0	0	0	26	Q	PRO: Quiet
						8917	N19	W74	0	0	0	26	Q	
						8921	S18	E09	1	0	0	26	E	
						8923	S27	E05	0	0	0	26	Q	
						8924	N10	E41	2	0	0	26	Q	
						8925	S18	E50	3	0	0	26	Q	
						8926	S10	W45	4	0	0	26	E	
						8927	N16	W28	0	0	0	26	Q	
						8928	N19	E45	1	0	0	26	Q	
						8929	S25	E53	0	0	0	26	Q	
						8930	S36	E54	0	0	0	26	Q	
087	27	26	255	211	7	8913	S16	W84	0	0	0	27	Q	SOL: Active
						8915	N23	W52	0	0	0	27	Q	MAG: Quiet
						8916	N13	W42	1	0	0	27	E	PRO: Quiet
						8917	N18	W85	0	0	0	27	Q	
						8921	S17	W03	3	0	0	27	E	
						8923	S26	W12	0	0	0	27	Q	
						8924	N10	E27	0	0	0	27	E	
						8925	S18	E35	3	0	0	27	E	
						8926	S09	W58	2	1	0	27	E	
						8927	N17	W41	0	0	0	27	Q	
						8928	N19	E33	0	0	0	27	Q	
						8931	S14	E47	0	0	0	27	Q	
						8932	S14	E71	0	0	0	27	Q	
088	28	27	227	205	6	8915	N23	W65	0	0	0	28	Q	SOL: Active
						8916	N13	W56	0	0	0	28	Q	MAG: Quiet
						8921	S18	W17	0	0	0	28	E	PRO: Quiet
						8923	S26	W24	0	0	0	28	Q	
						8924	N10	E13	2	0	0	28	Q	
						8925	S18	E21	1	0	0	28	E	
						8926	S09	W71	7	1	0	28	Q	
						8927	N17	W52	2	0	0	28	Q	
						8928	N18	E16	0	0	0	28	Q	
						8931	S14	E34	1	0	0	28	Q	
						8932	S14	E60	0	0	0	28	Q	
						8933	N16	E33	0	0	0	28	Q	
						8934	N22	E53	1	0	0	28	Q	
089	29	28	232	201	4	8915	N22	W78	0	0	0	29	Q	SOL: Eruptive
						8916	N13	W68	0	0	0	29	Q	MAG: Quiet
						8921	S17	W30	2	0	0	29	E	PRO: Quiet
						8924	N10	W01	2	0	0	29	E	
						8925	S17	E08	0	0	0	29	E	
						8926	S10	W84	2	1	0	29	Q	
						8927	N17	W66	0	0	0	29	Q	
						8928	N18	E02	0	0	0	29	Q	
						8931	S14	E21	1	0	0	29	Q	
						8932	S14	E46	0	0	0	29	Q	
						8933	N16	E20	0	0	0	29	Q	
						8934	N21	E39	0	0	0	29	Q	
090	30	29	238	209	7	8916	N12	W84	1	0	0	30	Q	SOL: Eruptive

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						8921	S17	W44	0	0	0	30	Q	MAG: Quiet
						8922	N16	W44	0	0	0	30	Q	PRO: Quiet
						8924	N10	W14	0	0	0	30	E	
						8925	S17	W07	2	0	0	30	E	
						8927	N15	W81	0	0	0	30	Q	
						8928	N19	W12	0	0	0	30	Q	
						8931	S13	E07	0	0	0	30	Q	
						8932	S14	E31	0	0	0	30	Q	
						8933	N16	E07	0	0	0	30	Q	
						8934	N22	E25	0	0	0	30	Q	
						8935	S07	E33	0	0	0	30	Q	
						8936	S16	E71	4	0	0	30	Q	
						8937	N26	E64	0	0	0	30	Q	
091	31	30	225	206	11	8921	S17	W56	2	0	0	31	Q	SOL: Eruptive
						8924	N10	W28	0	0	0	31	Q	MAG: Quiet
						8925	S18	W20	5	1	0	31	E	PRO: Quiet
						8928	N19	W22	0	0	0	31	Q	
						8931	S14	W06	0	0	0	31	Q	
						8932	S15	E18	0	0	0	31	Q	
						8933	N16	W06	0	0	0	31	Q	
						8934	N21	E11	0	0	0	31	Q	
						8935	S07	E20	1	0	0	31	Q	
						8936	S16	E58	14	2	0	31	E	
						8938	S07	E56	1	0	0	31	Q	
						8939	N22	E72	2	0	0	31	Q	
						8940	N13	E65	0	0	0	31	Q	
						8941	N25	E54	1	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

03/09/00 03:30:00 GEOALERT WWA069 STRATWARM ALERT/WEDNESDAY/STRATWARM EXISTS.
AN INTENSE WARMING EXISTS FROM SOUTHEASTERN AND EASTERN EUROPE TO CENTRAL ASIA WITH A TEMPERATURE INCREASE OF 30-35 DGS C DURING THE LAST WEAK OVER KAZAKH REPUBLIC AND EASTERN SIBERIA AT 10HPA. THE VORTEX IS CENTRED OVER THE BARENTS SEA AND THE COLD AIR IS DISPLACED TO THE NORTH ATLANTIC.

03/10/00 03:30:00 GEOALERT WWA070 STRATWARM ALERT/THURSDAY/STRATWARM EXISTS.
THE INTENSE WARMING, CENTERED OVER CENTRAL SIBERIA AT 10 HPA, CONTINUES. WARM AIR SPREADING NORTHWESTWARDS.

03/11/00 03:30:00 GEOALERT WWA071 STRATWARM ALERT/FRIDAY/STRATWARM EXISTS.

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THE INTENSE WARMING, CENTRED OVER CENTRAL SIBERIA AT 10 HPA, CONTINUES. WARM AIR EXTENDING NORTH AND NORTHWESTWARDS.

03/12/00 03:30:00 GEOALERT WWA072 STRATWARM ALERT EXISTS STRATWARM SATURDAY
THE INTENSE WARMING, CENTRED OVER CENTRAL SIBERIA AT 10 HPA, CONTINUES. WARM AIR SPREADING NORTH AND NORTHWESTWARDS.

03/13/00 03:30:00 GEOALERT WWA073 STRATWARM ALERT EXISTS STRATWARM SUNDAY
THE INTENSE WARMING OVER CENTRAL SIBERIA CONTINUES AND MOVES NORTHWESTWARDS.

03/14/00 03:30:00 GEOALERT WWA074 STRATWARM ALERT EXISTS STRATWARM MONDAY
THE INTENSE WARMING, CENTRED OVER NORTHERN SIBERIA AT 10 HPA, CONTINUES, SLIGHTLY WEAKENS AND MOVES NORTHWARDS.

03/15/00 03:30:00 GEOALERT WWA075 STRATWARM ALERT/TUESDAY/STRATWARM EXISTS.
THE INTENSE WARMING, CENTRED OVER THE NORTHERN URAL AT 10 HPA, CONTINUES AND SLIGHTLY WEAKENS. THE TEMPERATURE GRADIENT BETWEEN 60N AND THE NORTH POLE IS REVERSED IN THE WHOLE UPPER STRATOSPHERE.

03/16/00 03:30:00 GEOALERT WWA076 STRATWARM ALERT/WEDNESDAY/STRATWARM EXISTS.
THE INTENSE WARMING,CENTRED OVER THE KARA SEA AT 10 HPA,SLOWLY WEAKENING.TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STRATOSPHERE.

03/17/00 03:30:00 GEOALERT WWA077 STRATWARM ALERT/THURSDAY/STRATWARM EXISTS.
THE INTENSE WARMING, CENTERED OVER THE KARA SEA AT 10 HPA, SLOWLY WEAKENING. TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STRATOSPHERE. AT 1 HPA, THE MEAN ZONAL WIND AT 60N IS FROM THE EAST.

03/18/00 03:30:00 GEOALERT WWA078 STRATWARM ALERT/FRIDAY/STRATWARM EXISTS.
THE INTENSE WARMING, CENTERED OVER THE KARA SEA AT 10 HPA, SLOWLY WEAKENING. TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STRATOSPHERE. MEAN ZONAL WIND AT 60N DECREASING AND IS FROM EAST AT 1 HPA.

03/19/00 03:30:00 GEOALERT WWA079 STRATWARM ALERT EXISTS STRATWARM SATURDAY
THE INTENSE WARMING OVER EASTERN EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES.WARM AIR EXTENDS TO NORTHERN CANADA. TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STRATOSPHERE.MEAN ZONAL WIND AT 60N CONTINUOUSLY DECREASING AND IS FROM EAST AT 1 HPA.

03/20/00 03:30:00 GEOALERT WWA080 STRATWARM ALERT EXISTS STRATWARM SUNDAY
THE INTENSE WARMING OVER EASTERN EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES,SLOWLY WEAKENING. TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STRATOSPHERE.MEAN ZONAL WIND AT 60N CONTINUOUSLY DECREASING AND IS FROM EAST AT 1 HPA.

03/21/00 03:30:00 GEOALERT WWA081 STRATWARM ALERT EXISTS STRATWARM MONDAY
THE INTENSE WARMING OVER EASTERN EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES,SLOWLY WEAKENING. TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE AT 30 HPA AND ABOVE IN THE MIDDLE AND UPPER STRATOSPHERE.MEAN ZONAL WIND AT 60N CONTINUOUSLY DECREASING AND IS FROM EAST AT 1 HPA.

03/22/00 03:30:00 GEOALERT WWA082 STRATWARM ALERT/TUESDAY/STRATWARM EXISTS.
MINOR WARMING OVER EASTERN EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES, WEAKENING.TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE WHOLE STRATOSPHERE.MEAN ZONAL WIND AT 60N CONTINUOUSLY DECREASING AND IS FROM EAST AT 1 HPA.

03/23/00 03:30:00 GEOALERT WWA083 STRATWARM ALERT/WEDNESDAY/STRATWARM EXISTS.
MINOR WARMING OVER EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES. TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE WHOLE STRATOSPHERE ABOVE 50 HPA. MEAN ZONAL WIND AT 60N CONTINUOUSLY DECREASING AND IS FROM EAST AT 1 HPA.

03/24/00 03:30:00 GEOALERT WWA084 STRATWARM ALERT EXISTS STRATWARM THURSDAY
MINOR WARMING OVER EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES, WEAKENING. TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE WHOLE STRATOSPHERE ABOVE 50 HPA. MEAN ZONAL WIND AT 60N SLOWLY INCREASING AGAIN AND IS FROM EAST AT 1 HPA, BUT WEAKENING.

03/25/00 03:30:00 GEOALERT WWA085 STRATWARM ALERT EXISTS STRATWARM FRIDAY
MINOR WARMING OVER EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES, SLIGHTLY WEAKENING. TEMPERATURE GRADIENT REVERSED BETWEEN THE POLE AND 60N IN THE STRATOSPHERE ABOVE 50 HPA, BUT WEAK NEGATIVE AT 1HPA. MEAN ZONAL WIND AT 60N IN MIDDLE STRATOSPHERE WEAK WESTERLY, INCREASING; AT 1 HPA ZERO.

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

MARCH 2000

03/26/00 03:30:00 GEOALERT WWA086 STRATWARM ALERT EXISTS STRATWARM SATURDAY
MINOR WARMING OVER EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES, WEAKENING. TEMPERATURE GRADIENT REVERSED BETWEEN THE POLE AND 60N IN THE STRATOSPHERE ABOVE 30 HPA. MEAN ZONAL WIND AT 60N IN THE WHOLE STRATOSPHERE WEAK WESTERLY, INCREASING.

03/27/00 03:30:00 GEOALERT WWA087 STRATWARM ALERT EXISTS STRATWARM SUNDAY
MINOR WARMING OVER EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES, WEAKENING. TEMPERATURE GRADIENT REVERSED BETWEEN THE POLE AND 60N AT 10 HPA AND ABOVE. MEAN ZONAL WIND AT 60N IN THE WHOLE STRATOSPHERE WEAK WESTERLY, INCREASING.

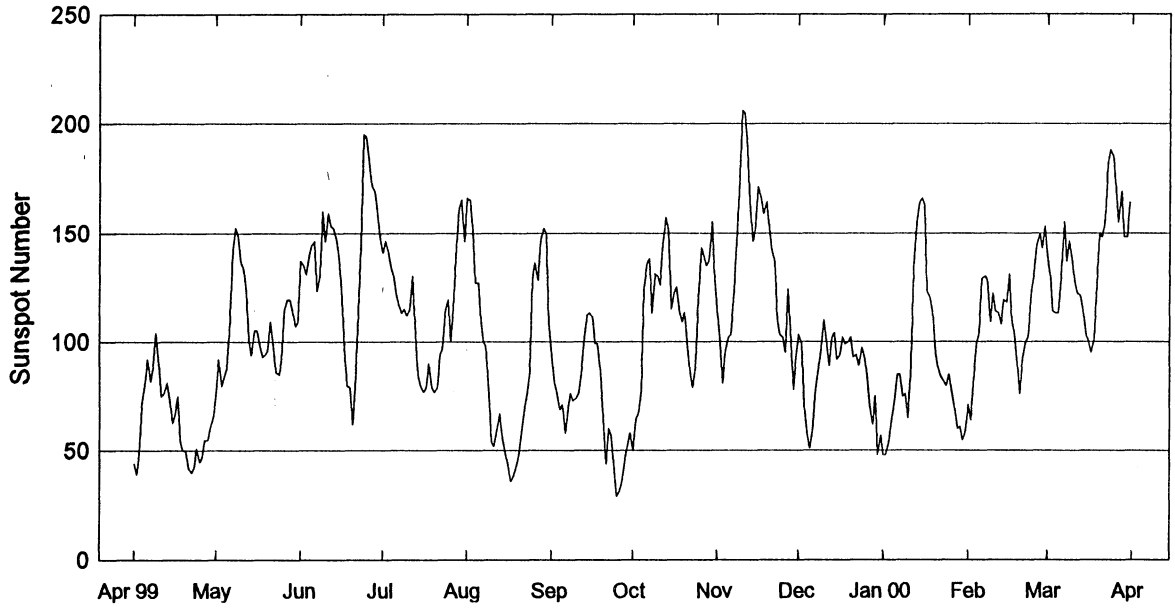
03/28/00 03:30:00 GEOALERT WWA088 STRATWARM ALERT EXISTS STRATWARM MONDAY
MINOR WARMING OVER EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES, SLOWLY WEAKENING. TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STRATOSPHERE.

03/29/00 03:30:00 GEOALERT WWA089 STRATWARM ALERT/TUESDAY/STRATWARM EXISTS.
MINOR WARMING OVER EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES,SLOWLY WEAKENING.TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STATOSPHERE.

03/30/00 03:30:00 GEOALERT WWA090 STRATWARM ALERT/WEDNESDAY/STRATWARM EXISTS.
MINOR WARMING OVER EUROPE/SIBERIA AND THE WHOLE ARCTIC AT 10 HPA CONTINUES.TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STRATOSPHERE.

03/31/00 03:30:00 GEOALERT WWA091 STRATWARM ALERT EXISTS STRATWARM THURSDAY
MINOR WARMING OVER EUROPE/SIBERIA AND THE ADJACENT ARCTIC AT 10 HPA CONTINUES.TEMPERATURE GRADIENT REVERSED BETWEEN 60N AND THE POLE IN THE MIDDLE AND UPPER STRATOSPHERE.

International Relative Sunspot Numbers
Apr 1999 - Mar 2000

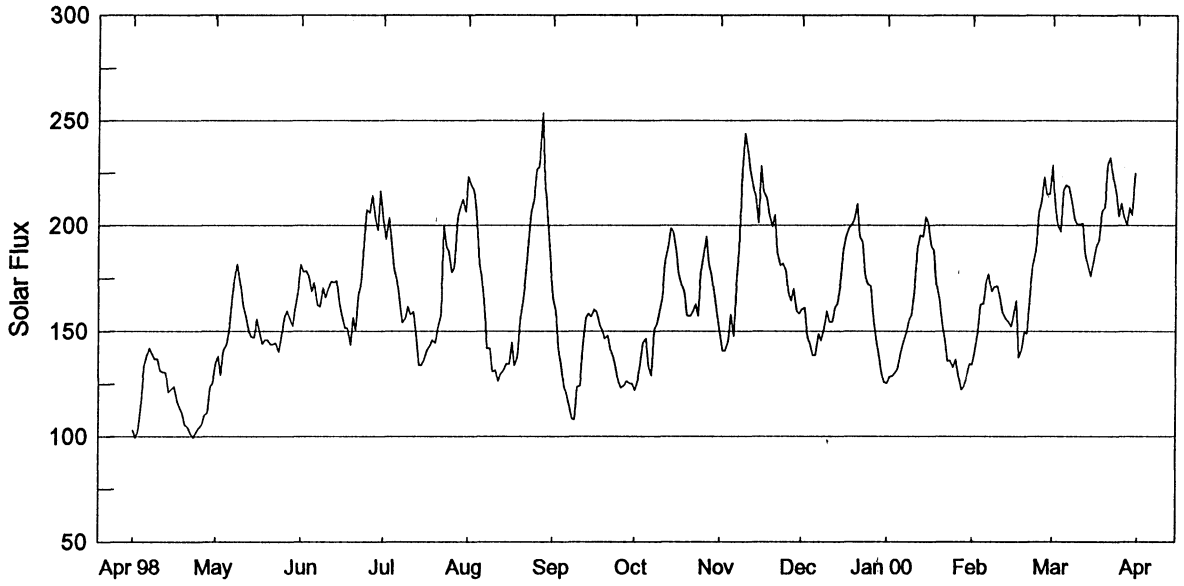


Day	Apr 99	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 00*	Feb*	Mar*
1	44	76	137	141	166	94	50	115	103	48	71	138
2	45	92	135	146	165	82	64	99	99	48	64	130
3	46	80	131	142	151	77	68	81	70	54	81	114
4	47	84	140	134	127	69	77	95	57	64	99	113
5	48	88	144	130	127	71	124	102	51	73	104	113
6	92	104	146	122	110	58	136	103	63	85	129	129
7	82	142	123	117	100	69	138	123	59	85	130	155
8	89	152	131	113	98	76	113	146	78	75	128	137
9	104	149	160	115	76	73	131	169	87	76	109	146
10	90	136	146	112	54	74	130	206	110	65	122	137
11	75	134	159	115	52	76	126	205	101	90	114	127
12	76	122	153	130	60	85	145	188	89	134	113	122
13	81	101	152	103	67	102	157	164	102	153	108	121
14	74	94	147	84	57	112	151	146	104	164	119	115
15	63	105	139	80	49	113	115	153	92	166	118	103
16	67	105	120	77	44	111	122	171	94	163	131	100
17	75	99	97	79	36	99	125	166	102	123	109	95
18	55	93	80	90	38	99	114	159	99	120	104	101
19	50	94	79	79	42	86	109	164	100	114	89	126
20	50	96	62	77	48	65	113	152	102	95	76	150
21	42	109	79	79	58	44	97	142	93	88	92	148
22	40	98	106	94	68	60	86	137	94	84	100	156
23	42	86	144	97	76	57	79	110	89	82	102	182
24	51	85	195	113	86	41	90	103	97	80	123	188
25	45	92	194	119	129	29	120	102	93	85	131	185
26	47	114	182	100	136	31	143	95	84	77	144	170
27	55	119	172	115	128	35	140	124	69	70	150	155
28	55	119	169	144	147	46	135	105	62	60	143	169
29	61	115	160	161	152	52	137	78	75	61	153	148
30	66	107	148	165	150	58	155	93	48	55		148
31		109		146	109		129		57	58		164
Mean	63.7	106.4	137.7	113.5	93.7	71.5	116.7	133.2	84.6	90.2	112.3	138.2

* = Provisional.

Penticton 2800 MHz (10.7cm) Solar Flux
Apr 1999 - Mar 2000

Adjusted to 1 AU



Day	Apr 99	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 00	Feb	Mar
1	102.9	134.9*	181.2	202.0	222.9	165.8	121.9	148.4	160.4	125.6	134.1	228.7
2	99.4	137.9	178.1	193.4	218.8	159.3	126.6	140.6	160.9	128.5	140.2	209.6
3	102.7	129.2	178.5	203.5	216.9	141.7	134.7	140.8	147.5	128.7	149.7	200.4
4	116.0	141.1	175.9	191.9	206.0	133.5	144.4	145.1	143.3	130.3	162.7	197.0
5	132.7	143.3	168.8	180.0	182.1	123.8	146.2	157.8	138.6	132.0	163.1	216.8
6	137.6	149.5	172.9	173.5	175.3	120.4	133.5	147.4	138.6	140.0	172.8	219.1
7	141.7	166.4	162.4	163.7	157.6	114.1	129.2	170.8	148.8	144.8	177.0	218.5
8	139.5	175.1	161.3	154.1	141.7	108.4	150.9	188.4	145.6	149.6	169.0	211.8
9	136.7	181.7	170.3	155.9	141.9	108.0	152.8	225.5	151.5	155.3	170.8#	203.0
10	136.9	172.8	166.0	161.5	130.8	123.7	160.0	243.6	159.5	157.8	171.1	200.7
11	131.3	162.6	169.8	157.8	131.4	124.1	166.0	235.0	154.3	171.8	165.8	200.6
12	130.7	156.3	173.2	159.2	126.4	142.6	182.9	227.1	154.4	189.3	159.1	200.8
13	130.3	150.5	173.0	148.3	129.8	156.5	190.1	219.1	161.0	195.4	155.9	186.0
14	121.0	147.3	173.5	133.9	131.5	158.2	198.7	214.2	163.1	194.7	154.7	180.6
15	122.7	146.8	163.5	133.8	134.5	156.6	197.1	201.1	173.1	203.9	152.2	175.9
16	123.8	155.6	157.6	136.4	134.4	159.9	187.8	228.2	187.9	201.0	156.3	182.5
17	116.6	148.6	151.3	141.3	144.5	159.1	176.8	216.3	194.4	190.1	164.4	190.6
18	113.8	143.8	151.2	142.8	133.9	153.0	171.4	212.9	198.9	188.4	137.8	193.0
19	110.9	145.8	143.3	145.8	138.0	150.6	168.2	205.1	200.3	172.9	141.5	206.5
20	105.8	145.9	156.5	144.1	155.2	146.2	157.4	199.5	202.4	165.3	149.9	208.7
21	104.4	143.7	150.3	152.1	165.0	147.9	157.0	205.0	210.1	154.3	148.7	228.9
22	101.4	143.7	166.9	157.8	176.7	141.5	158.8	187.2	195.1	145.8	168.6	232.2
23	99.3	144.2	173.0	199.9	191.7	137.8	162.8	180.9	191.9	136.1	181.2	222.7
24	102.0	140.4	191.1	190.1	206.4	132.4	157.1	181.9	176.5	136.3	188.3	217.7
25	103.8	146.8	207.5	188.0	212.9	126.1	177.2	179.0	172.5	133.1	206.2	204.1
26	105.8	156.6	206.1	177.8	226.9	123.3	187.1	167.7	171.2	136.4	210.6	210.4
27	110.0	159.3	214.3	179.9	227.7	124.4	194.8	164.5	156.4	128.4	222.9	204.1
28	111.3	156.2	203.2	203.9	253.4	126.5	181.5	170.1	145.4	122.2#	214.7	200.3
29	123.9	152.7	197.7	208.6	222.5	125.3	177.2	159.5	139.0	123.9	215.1	208.3
30	125.3	161.1	216.5	212.2	201.9	125.1	167.0	158.3	131.2	128.7		205.1
31		170.1		206.7	186.1		158.1		125.8	134.5		225.1
Mean	118.0	151.9	175.2	171.0	175.0	137.2	163.7	187.4	164.5	153.9	153.9	206.1

NOTE: * 2300UT reading - hail on antenna at 2000UT. ; #1800UT reading - burst in progress at 2000UT

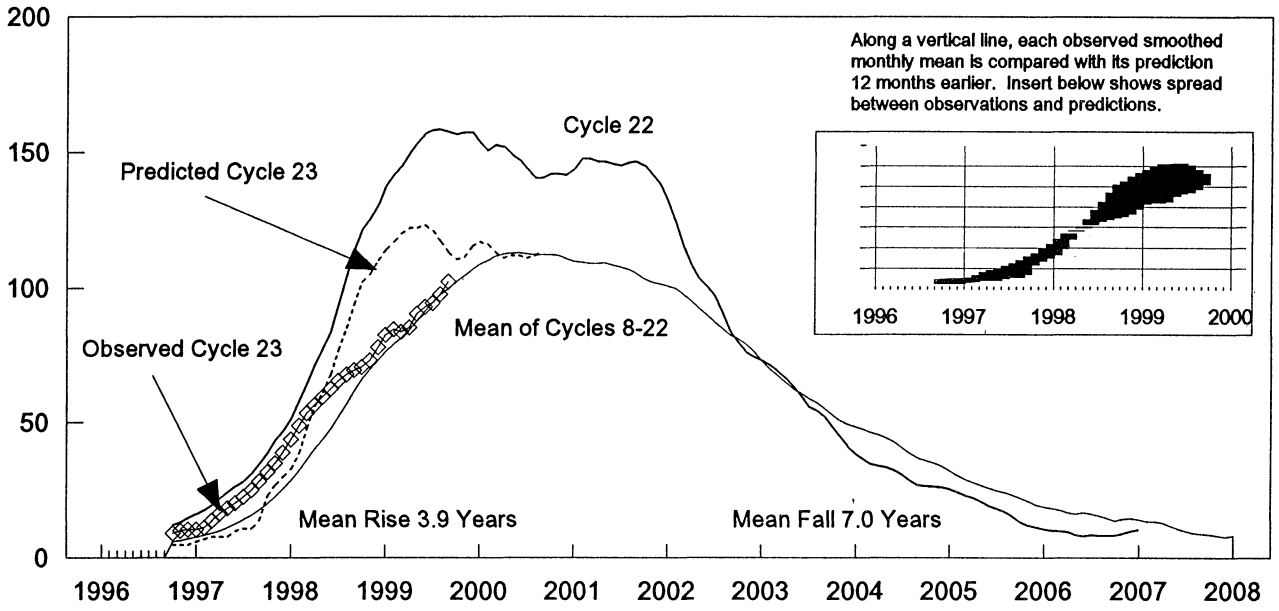
DAILY SOLAR INDICES

March 2000

Day	Day of Year	Bartels Cycle Day	Sunspot Numbers Int	Sunspot Numbers Amer	Obs Flux Penticton (2800)	Solar Flux Adjusted to 1 Astronomical Unit — SGMR (15400)	SGMR (8800)	SGMR (4995)	Pentic (2800)	SGMR (2695)	SGMR (1415)	SGMR (610)	SGMR (410)	SGMR (245)
1	61	13	138	140	232.8	--	--	--	228.7	--	--	--	--	--
2	62	14	130	129	213.2	598	357	270	209.6	198	154	94	100	125
3	63	15	114	109	203.8	584	338	258	200.4	193	154	83	61	59
4	64	16	113	117	200.2	587	328	246	197.0	188	152	86	69	64
5	65	17	113	140	220.3	608	--	262	216.8	214	165	86	62	41
6	66	18	129	160	222.4	596	331	260	219.1	202	156	73	61	59
7	67	19	155	175	221.8	596	335	270	218.5	210	154	81	58	22
8	68	20	137	154	214.9	588	337	255	211.8	205	153	83	52	20
9	69	21	146	139	205.8	589	318	243	203.0	197	148	77	51	18
10	70	22	137	144	203.4	581	335	257	200.7	202	149	77	50	18
11	71	23	127	133	203.2	576	364	263	200.6	195	149	80	49	18
12	72	24	122	143	203.2	550	354	256	200.8	192	145	67	51	21
13	73	25	121	109	188.1	577	326	234	186.0	186	137	--	48	20
14	74	26	115	113	182.6	575	316	234	180.6	175	131	71	47	18
15	75	27	103	119	177.8	576	300	225	175.9	168	127	72	49	18
16	76	1	100	108	184.4	570	307	225	182.5	165	125	71	47	19
17	77	2	95	103	192.4	575	321	230	190.6	178	127	77	50	20
18	78	3	101	127	194.8	579	322	245	193.0	186	135	73	53	23
19	79	4	126	159	208.2	596	--	--	206.5	220	145	--	--	--
20	80	5	150	165	210.3	580	327	257	208.7	200	146	76	--	--
21	81	6	148	143	230.5	576	350	279	228.9	217	159	80	58	29
22	82	7	156	181	233.8	597	353	282	232.2	218	161	81	65	26
23	83	8	182	227	224.1	603	326	263	222.7	213	165	83	62	39
24	84	9	188	214	218.9	597	319	253	217.7	206	161	84	68	33
25	85	10	185	197	205.1	581	306	234	204.1	197	153	81	53	47
26	86	11	170	185	211.3	594	318	239	210.4	205	158	79	53	--
27	87	12	155	167	204.9	596	312	243	204.1	197	159	78	48	17
28	88	13	169	157	200.9	518	291	224	200.3	191	154	70	49	15
29	89	14	148	158	208.8	593	305	228	208.3	195	157	78	48	21
30	90	15	148	174	205.5	589	318	241	205.1	195	162	81	50	18
31	91	16	164	184	225.4	605	338	267	225.1	216	172	84	51	26
MEAN			138.2	150.8	208.2	584	326	249	206.1	197	150	78	55	31

The International numbers shown above are preliminary values; the American numbers are final.
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
1992	124	115	108	103	100	97	91	84	80	76	74	73	94
1993	71	69	67	64	60	56	55	52	48	45	41	38	56
1994	37	35	34	34	33	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	105	112	112	95
										(4)	(7)	(9)	(2)
2000	111	111	113	113	113	113	114	114	114	113	112	112	113
	(12)	(15)	(16)	(18)	(21)	(22)	(23)	(26)	(28)	(30)	(33)	(35)	(23)

Solar Cycle 22 | Solar Cycle 23 | Min, Max, and Predictions

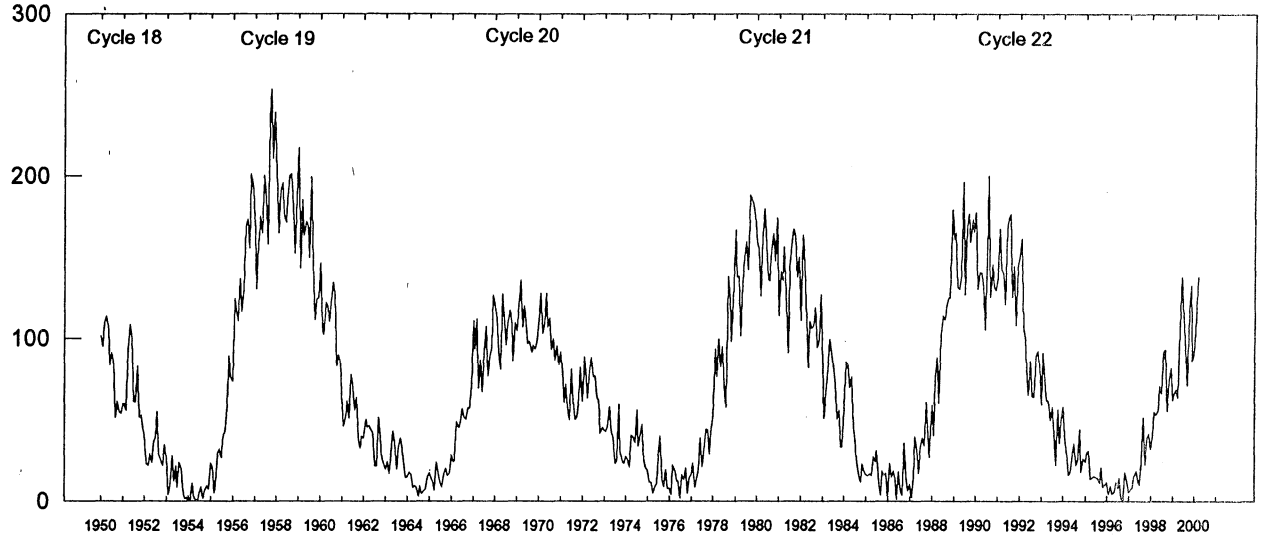
*** May 1996 marks Cycle 22's mathematical minimum. ** October 1996 marks the consensus minimum NGDC is now using.**

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 Dec 1999 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 2000 prediction. There exists a 90% chance that in September 2000, the actual smoothed number will fall somewhere between 86 and 142.

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 2000



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	90.2	112.3	138.2										113.6	

Values are preliminary after Dec 99. For the yearly means, each 'M' marks a sunspot cycle maximum and each 'm' a minimum.

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
GOES	01	0025	0031	0038						13		C 2.0						1.3E-03
GOES		0227	0230	0233						6		C 1.4						4.3E-04
GOES		0310	0315	0319						9		C 3.2						1.2E-03
GOES		0601	0604	0606						5		C 1.3						3.3E-04
GOES		1014	1015	1020						6		C 1.5						3.9E-04
GOES		1145	1149	1151						6		C 1.3						4.1E-04
GOES		1636	1726	1751			8882			75		C 5.3						1.7E-02
HOLL		1641	1708	1755	N20	W01	8889	03	1.6	74	SF		3	E		29		
HOLL		1718	1719	1738	S18	W41	8882	02	27.7	20	SF		3	E		19		F
HOLL		1752	1805	1826	S14	W44	8882	02	27.5	34	SF		3	E		62		F
GOES		1753	1806	1834	S14	W44	8882			41	SF	C 6.9						1.2E-02
RAMY		1754	1805	1823	S14	W41	8882	02	27.7	29	SF		3	E		37		
GOES		2346	2421	2447	S11	W63	8886			61	SF	C 2.6						7.6E-03
LEAR	02	0027E	0049U	0112D	S11	W63	8886	02	26.4	45D	SF		2	E		40		
GOES		0211	0216	0221						10		C 2.4						1.2E-03
GOES		0236	0240	0243						7		C 1.7						6.4E-04
GOES		0344	0356	0402	S11	W65	8886			18	SF	C 7.2						4.5E-03
LEAR		0358E	0401U	0420	S11	W65	8886	02	26.4	22D	SF		3	E		59		
LEAR		0747E	0747U	0809	S14	W02	8891	03	2.2	22D	SF		2	E		10		
GOES		0820	0828	0831						11		X 1.1						3.6E-02
LEAR		0823	0825	0911D	S14	W52	8882	02	27.5	48D	2B		3	E		296		
LEAR		0837	0843	0911	S14	W66	8886	02	26.5	34	1F		3	E		103		
GOES		0838	0841	0847	S14	W66	8886			9	1F	M 1.1						4.7E-03
GOES		1306	1315	1326	S19	W60	8882			20	SF	C 5.5						4.7E-03
RAMY		1308E	1308U	1326	S19	W60	8882	02	27.1	18D	SF		2	E		38		H
GOES		1335	1343	1348	S20	W58	8882			13	SN	M 6.5						2.9E-02
RAMY		1340E	1341U	1356	S20	W58	8882	02	27.2	16D	SN		2	E		87		H
HOLL		1412E	1415	1428	S17	E04	8891	03	2.9	16D	SF		3	E		31		
HOLL		1444	1444	1448	S13	W74	8886	02	26.1	4	SF		3	E		15		
GOES		1500	1512	1544	S17	E01	8891			44	SF	C 3.5						6.9E-03
HOLL		1527	1528	1530	S17	E01	8891	03	2.7	3	SF		3	E		28		
GOES		1608	1614	1618	S22	W59	8882			10	SF	C 2.6						1.4E-03
HOLL		1609	1612	1625	S14	W57	8882	02	27.5	16	SF		3	E		59		
RAMY		1611	1613	1617	S22	W59	8882	02	27.2	6	SF		3	E		30		
HOLL		1720	1721	1726	S19	W87	8886	02	25.2	6	SF		3	E		20		
GOES		1746	1751	1757						11		C 2.0						1.2E-03
GOES		1819	1829	1838			8886			19		C 6.0						4.9E-03
HOLL		1822	1827	1831	S21	E02	8891	03	2.9	9	SF		3	E		15		
HOLL		1827	1828	1840	S13	W75	8886	02	26.2	13	SF		3	E		22		
RAMY		1829	1830	1835	S14	W76	8886	02	26.1	6	SF		3	E		11		
GOES		1839	1847	1851	S14	W77	8886			12	SF	C 9.2						5.2E-03
HOLL		1844	1848	1857	S13	W74	8886	02	26.3	13	SF		3	E		27		
RAMY		1848	1848	1858	S14	W77	8886	02	26.1	10	SF		3	E		15		
GOES		2214	2224	2240	S13	W59	8882			26	SF	C 1.5						1.9E-03
HOLL		2223	2224	2228	S13	W59	8882	02	27.6	5	SF		3	E		10		
GOES		2253	2329	2352			8886			59		C 3.5						9.0E-03
HOLL		2256	2256	2301	S16	E81		03	9.1	5	SF		3	E		14		
HOLL		2304	2311	2317	S14	E92		03	9.9	13	SF		3	E		89		H
HOLL		2327	2334	2417	N16	W56	8883	02	27.8	50	SF		3	E		24		
HOLL		2328	2328	2333	S12	W78	8886	02	26.2	5	SF		3	E		12		
LEAR	03	0021	0021	0109	N10	W59	8883	02	27.7	48	SF		3	E		11		
GOES		0047	0051	0057						10		C 3.6						1.6E-03
GOES		0132	0136	0138						6		C 3.0						8.6E-04
LEAR		0148	0149	0152	S14	W75	8886	02	26.5	4	SF		3	E		18		
LEAR		0203	0212U	0231D	S14	W76	8886	02	26.4	28D	SN		3	E		31		
GOES		0208	0214	0222	S15	W60	8882			14	1B	M 3.8						2.0E-02
LEAR		0211E	0213U	0249D	S15	W60	8882	02	27.6	38D	1B		3	E		242		
LEAR		0246	0319	0331	S14	W76	8886	02	26.5	45	1F		3	E		133		
LEAR		0304	0316	0410	S14	W62	8882	02	27.5	66	1F		3	E		147		
GOES		0337	0405	0436	S14	W62	8882			59	1F	C 2.1						6.7E-03
LEAR		0547	0550	0554	S22	W06	8891	03	2.8	7	SF		3	E		50		FH
LEAR		0550	0550	0618	N19	W24	8889	03	1.4	28	SF		3	E		38		
GOES		0630	0633	0639						9		C 1.9						8.6E-04
LEAR		0707	0711	0721	S13	W83	8886	02	26.1	14	SF		3	E		75		
GOES		0707	0712	0718	S13	W83	8886			11	SF	C 3.9						2.1E-03
SVTO		0710	0710	0714	S11	W83	8886	02	26.1	4	SF		3	E		37		H

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
GOES	03	1040	1046	1048	S12	W84	8886			8	SN	M 4.0						7.9E-03
SVTO		1043	1049	1055	S12	W84	8886	02	26.2	12	SN		3	E		75		FH
GOES		1138	1153	1238	N19	W23	8889			60	SF	C 3.7						1.1E-02
RAMY		1146E	1147U	1208	N13	W22	8889	03	1.8	22D	SF		2	E		54		F
SVTO		1151E	1151U	1208	N19	W23	8889	03	1.7	17D	SF		3	E		48		FH
GOES		1646	1650	1653						7		C 1.6						5.9E-04
HOLL		1713	1910	1931	S14	W69	8882	02	27.6	138	SF		3	E		27		
GOES		1832	1845	1905						33		C 1.5						2.6E-03
HOLL		1907	1910	1920	S12	E37		03	6.6	13	SF		3	E		14		
HOLL		1910	1910	1931	S14	W69	8882	02	27.7	21	SF		3	E		27		
GOES		2337	2345	2350	S19	W76	8882			13	SF	C 6.1						3.5E-03
HOLL		2339	2342	2358	S19	W76	8882	02	27.3	19	SF		3	E		46		
GOES	04	0032	0036	0041						9		C 1.3						6.1E-04
LEAR		0331	0333	0334	N15	W33	8889	03	1.6	3	SF		3	E		12		
LEAR		0408	0409	0412	S16	E25		03	6.1	4	SF		3	E		11		
LEAR		0541	0542	0557	S16	E25		03	6.1	16	SF		3	E		23		
LEAR		0620	0628	0708	S17	E26	8900	03	6.2	48	SF		3	E		31		
LEAR		0825	0827	0838	S16	E23	8900	03	6.1	13	SF		3	E		22		
GOES		1115	1120	1124						9		C 2.4						1.2E-03
GOES		1618	1652	1759	S11	E24	8899			101	SF	C 1.6						7.7E-03
HOLL		1642	1650	1707	S11	E24	8899	03	6.5	25	SF		3	E		14		
GOES		1811	1832	1859						48		C 1.8						4.8E-03
GOES		2017	2020	2022						5		C 1.5						3.8E-04
GOES		2056	2145	2228			8889			92		C 2.2						1.0E-02
LEAR	05	0052	0053	0059	S14	E44	8898	03	8.4	7	SF		3	E		18		
LEAR		0207	0209	0212	S14	E51	8898	03	8.9	5	SF		3	E		19		E
LEAR		0223	0223	0232	S14	E51	8898	03	8.9	9	SF		3	E		10		
LEAR		0335	0340	0405	S15	E44	8898	03	8.5	30	SF		3	E		51		E
GOES		0337	0344	0353	S15	E44	8898			16	SF	C 2.2						1.9E-03
GOES		0418	0421	0423	S14	E50	8898			5	SF	C 1.9						5.0E-04
LEAR		0419	0420	0430	S14	E50	8898	03	8.9	11	SF		3	E		21		
LEAR		0431	0433	0444	S14	E50	8898	03	9.0	13	SF		3	E		21		
LEAR		0507	0517	0523	S13	E45	8898	03	8.6	16	SN		3	E		55		H
GOES		0513	0517	0519	S13	E45	8898			6	SN	C 3.9						1.0E-03
LEAR		0613	0613	0621	S15	E44	8898	03	8.6	8	SF		3	E		16		F
GOES		0647	0651	0653	S12	E41	8898			6	SF	C 4.2						9.1E-04
LEAR		0650	0652	0658	S12	E41	8898	03	8.4	8	SF		3	E		23		
GOES		0856	0902	0907	S14	W42	8891			11	SF	C 5.1						2.4E-03
LEAR		0858	0904	0923	S14	W42	8891	03	2.2	25	SF		3	E		63		
LEAR		0929	0941	0941D	S13	E43	8898	03	8.6	12D	SF		3	E		32		
GOES		0932	0943	0957	S13	E43	8898			25	SF	C 6.8						8.0E-03
GOES		1229	1232	1234						5		C 2.2						5.6E-04
GOES		1318	1322	1324						6		C 2.0						6.0E-04
GOES		1424	1428	1430						6		C 2.4						7.4E-04
GOES		1523	1526	1528						5		C 3.0						5.7E-04
GOES		1529	1530	1532	S13	E35	8898			3	SF	C 9.6						1.3E-03
RAMY		1530	1531	1536	S13	E35	8898	03	8.3	6	SF		3	E		41		H
GOES		1605	1608	1610	S13	E34	8898			5	SF	C 2.7						5.9E-04
RAMY		1608	1609	1612	S13	E34	8898	03	8.2	4	SF		3	E		31		
GOES		1622	1627	1644	S16	E38	8898			22	SF	C 5.0						5.3E-03
RAMY		1625	1626	1636	S16	E38	8898	03	8.6	11	SF		3	E		75		FH
SVTO		1626	1627	1632	S15	E37	8898	03	8.5	6	SF		2	E		25		
HOLL		1704E	1714	1730	S14	E39	8898	03	8.6	26D	SF		3	E		33		
GOES		1827	1830	1832						5		C 2.0						5.1E-04
HOLL		2311	2326	2329D	S13	E35	8898	03	8.6	18D	SF		3	E		19		
GOES	06	1043	1049	1053						10		C 4.5						1.9E-03
GOES		1119	1128	1142						23		C 3.8						4.6E-03
SVTO		1150	1200	1214	S11	E27	8898	03	8.5	24	SF		3	E		62		ZF
GOES		1151	1202	1206	S11	E27	8898			15	SF	C 4.3						3.4E-03
RAMY		1154E	1155U	1212	S13	E27	8898	03	8.5	18D	SF		2	E		46		F
GOES		1616	1619	1622	N20	W82	8889			6	SF	C 3.9						1.0E-03
RAMY		1620	1620	1625	N20	W82	8889	02	29.4	5	SF		3	E		36		H
HOLL		1645	1645	1650	S19	E76		03	12.5	5	SF		3	E		14		
HOLL		1736	1737	1740	N21	W78	8889	02	29.7	4	SF		3	E		46		
HOLL		1757	1758	1802	S14	W62	8891	03	2.1	5	SF		3	E		39		

Hα SOLAR FLARES

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
GOES	06	1853	1859	1914						21		C 3.4						3.6E-03
GOES		2039	2045	2110						31		C 2.8						4.8E-03
HOLL		2226E	2235	2250D	S13	E56	8901	03	11.1	24D	SF		3	E		14		
GOES	07	0346	0350	0353						7		C 2.9						9.7E-04
GOES		0441	0446	0449						8		C 3.2						1.1E-03
GOES		0703	0707	0714						11		C 2.7						1.5E-03
GOES		0722	0726	0730						8		C 3.0						1.3E-03
GOES		1115	1255	1300						105		C 5.9						1.8E-02
SVTO		1133	1141	1217	S09	E16	8898	03	8.7	44	SF		3	E		11		F
SVTO		1228	1228	1232	S11	W14	8899	03	6.5	4	SF		3	E		19		F
SVTO		1231	1231	1244	S12	W71	8891	03	2.2	13	SF		3	E		17		F
GOES		1327	1333	1337						10		C 7.6						3.4E-03
SVTO		1407	1408	1420	S12	W21	8900	03	6.0	13	SF		3	E		24		F
GOES		1421	1430	1436			8891			15		C 6.3						4.3E-03
SVTO		1422	1426	1440	S16	W23	8900	03	5.8	18	SF		3	E		29		F
SVTO		1423	1436	1442	S13	W59	8891	03	3.1	19	SF		3	E		16		FH
SVTO		1448	1449	1505	S12	W22	8900	03	5.9	17	SF		3	E		22		F
GOES		1509	1513	1517						8		C 5.1						1.8E-03
GOES		1601	1607	1613	S22	E77				12	1F	M 1.2						5.5E-03
SVTO		1606	1608	1610	S22	E77		03	13.6	4	1F		3	E		141		H
GOES		1729	1733	1737						8		C 2.4						1.1E-03
GOES		1801	1806	1812						11		C 3.0						1.7E-03
GOES		1906	1914	1921						15		C 3.0						2.4E-03
GOES		1931	1935	1939						8		C 2.8						1.2E-03
GOES		1944	1950	1953						9		M 1.0						3.3E-03
GOES		2020	2027	2032						12		C 4.9						2.6E-03
GOES		2152	2202	2211	S16	W71	8891			19	SF	C 8.7						7.1E-03
HOLL		2206	2207	2217	S16	W71	8891	03	2.5	11	SF		3	E		18		
GOES		2228	2232	2237			8891			9		C 8.6						3.9E-03
GOES		2336	2340	2347						11		C 4.8						2.4E-03
GOES	08	0022	0026	0030						8		C 4.4						1.5E-03
GOES		0153	0200	0205						12		M 1.4						7.3E-03
GOES		0242	0245	0248						6		C 2.4						7.8E-04
GOES		0625	0629	0637						12		C 2.2						1.3E-03
SVTO		1004	1005	1017	S17	W31	8900	03	6.1	13	SF		3	E		18		F
GOES		1051	1059	1104						13		C 7.6						4.2E-03
GOES		1129	1134	1137						8		C 3.5						1.2E-03
GOES		1212	1215	1217						5		C 3.4						7.0E-04
GOES		1322	1325	1328						6		C 1.5						4.9E-04
GOES		1605	1609	1611						6		C 1.9						5.0E-04
GOES		1623	1628	1634						11		C 1.7						9.5E-04
RAMY		1746	1748	1804	S13	W30	8899	03	6.5	18	SF		3	E		23		
RAMY		1746	1748	1804	S15	W29	8900	03	6.5	18	SF		3	E		13		
GOES		1754	1757	1801	S13	W30	8899			7	SF	C 2.8						1.1E-03
GOES		1939	1947	1957						18		C 2.0						1.9E-03
GOES	09	0119	0123	0133						14		C 1.6						1.3E-03
GOES		0225	0230	0235						10		C 2.8						1.3E-03
GOES		0352	0359	0405						13		C 1.7						1.2E-03
GOES		0608	0611	0613						5		C 1.7						4.4E-04
GOES		0709	0722	0739						30		C 2.0						3.0E-03
GOES		0806	0809	0812						6		C 1.3						4.3E-04
GOES		1336	1339	1345	S19	E57	8906			9	SF	C 1.5						7.7E-04
SVTO		1338	1343	1349	S19	E57	8906	03	13.9	11	SF		3	E		12		F
RAMY		1338E	1346	1349	S18	E57	8906	03	13.9	11D	SF		3	E		12		
GOES		1612	1618	1626						14		C 1.5						1.1E-03
HOLL		1703	1708	1717	N23	W15	8904	03	8.5	14	SF		3	E		19		
GOES		1833	1838	1841						8		C 2.9						9.4E-04
GOES		1833	1838	1841	S19	E54	8906			8	1F	C 2.9						9.3E-04
HOLL		1835	1837	1844	S19	E54	8906	03	13.9	9	1F		3	E		105		U
RAMY		1836	1837	1843	S18	E54	8906	03	13.9	7	SF		3	E		71		F
HOLL		1837	1837	1844	N21	W16	8904	03	8.5	7	SF		3	E		16		
GOES	10	0209	0214	0216						7		C 2.7						7.3E-04
GOES		0230	0235	0238						8		C 2.4						9.5E-04
GOES		0311	0317	0321						10		C 6.7						2.3E-03

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
GOES	10	0540	0544	0546	S18	W54	8900			6	SF	C 3.6						8.4E-04
LEAR		0543	0543	0546	S18	W54	8900	03	6.1	3	SF		3	E		36		
GOES		0758	0801	0804						6		C 1.2						3.8E-04
GOES		0812	0814	0818						6		C 2.3						6.4E-04
GOES		0832	0835	0838						6		C 2.4						6.5E-04
GOES		0906	0912	0917	S13	W53	8899			11	SF	C 2.0						1.1E-03
SVTO		0910	0912	0918	S13	W53	8899	03	6.4	8	SF		3	E		16		F
GOES		1032	1036	1039	S18	E54	8906			7	SF	C 4.1						1.1E-03
SVTO		1035	1036	1041	S18	E54	8906	03	14.5	6	SF		3	E		13		
GOES		1053	1058	1107	S15	E53	8906			14	SF	C 2.6						1.9E-03
SVTO		1055	1056	1106	S15	E53	8906	03	14.5	11	SF		3	E		15		F
GOES		1327	1331	1335						8		C 2.1						8.5E-04
HOLL		1434	1436	1440	N25	W29	8904	03	8.4	6	SF		3	E		22		
HOLL		1434	1439	1444	S16	E51	8906	03	14.5	10	SF		3	E		39		
GOES		1454	1500	1504						10		C 1.9						9.7E-04
HOLL		1506	1507	1510	S11	W55	8899	03	6.5	4	SF		3	E		11		
HOLL		1555	1559	1607	N23	W27	8904	03	8.6	12	SF		3	E		18		
HOLL		1607	1607	1611	S11	W56	8899	03	6.4	4	SF		3	E		11		
GOES		1613	1616	1619						6		C 1.6						5.4E-04
GOES		1623	1626	1632			8899			9		C 1.8						8.7E-04
HOLL		1624	1624	1629	N23	W27	8904	03	8.6	5	SF		3	E		10		
HOLL		1626	1626	1630	S11	W56	8899	03	6.5	4	SF		3	E		38		
GOES		1635	1639	1641	S17	E50	8906			6	SN	C 4.7						1.0E-03
HOLL		1638	1640	1646	S17	E50	8906	03	14.5	8	SN		3	E		66		
GOES		1657	1714	1727	S12	W60	8900			30	SF	C 2.6						3.9E-03
HOLL		1658	1700	1744	S12	W60	8900	03	6.2	46	SF		3	E		38		
HOLL		1721	1727	1735	S13	W29	8898	03	8.5	14	SF		3	E		15		
HOLL		1733	1759	1826	S14	E48	8906	03	14.3	53	SF		3	E		72		
GOES		1749	1758	1806	S12	E45	8906			17	SF	C 7.7						6.4E-03
RAMY		1751	1755	1831D	S12	E45	8906	03	14.1	40D	SF		3	E		20		
HOLL		1814	1814	1827	S14	W62	8900	03	6.1	13	SF		3	E		74		
HOLL		1827	1830	1833	S13	W62	8900	03	6.1	6	SF		3	E		18		
HOLL		1834	1842	1846	S16	E49	8906	03	14.5	12	SF		3	E		56		
RAMY		1837E	1837U	1848D	S15	E47	8906	03	14.3	11D	SF		2	E		48		
GOES		1914	1921	1924	S16	E49	8906			10	SF	C 1.6						8.0E-04
HOLL		1916	1922	1929	S16	E49	8906	03	14.5	13	SF		3	E		43		
GOES		1931	1934	1938						7		C 1.4						5.0E-04
HOLL		1947	2016	2041	S16	E47	8906	03	14.4	54	SF		3	E		84		
GOES		1951	1954	1956						5		C 1.7						4.6E-04
GOES		1958	2007	2017			8906			19		C 3.4						3.1E-03
GOES		2038	2041	2043			8906			5		C 2.4						6.0E-04
HOLL		2042	2105	2145	S15	E47	8906	03	14.4	63	1F		3	E		106		
GOES		2100	2108	2119	S15	E47	8906			19	1F	C 7.4						6.1E-03
HOLL		2214	2215	2226	S16	E47	8906	03	14.5	12	SF		3	E		27		
GOES		2247	2251	2254						7		C 1.8						6.0E-04
HOLL		2303	2317	2351	S16	E46	8906	03	14.4	48	SF		3	E		85		
GOES		2314	2318	2322	S16	E46	8906			8	SF	C 4.7						1.5E-03
GOES		2329	2333	2336	S18	E42	8906			7	SF	C 2.1						7.7E-04
LEAR		2335E	2335U	2410	S18	E42	8906	03	14.2	35D	SF		3	E		80		
GOES	11	0013	0019	0024	S15	E45	8906			11	SF	C 3.4						1.7E-03
HOLL		0016	0016	0032	S15	E45	8906	03	14.4	16	SF		3	E		76		
LEAR		0334E	0334U	0342	S18	E40	8906	03	14.2	8D	SF		3	E		58		
GOES		0401	0404	0406						5		C 1.5						3.9E-04
GOES		0409	0415	0428						19		C 6.2						5.4E-03
LEAR		0911	0924	1007	S12	E40	8906	03	14.4	56	1N		3	E		111		F
GOES		0915	0927	0935	S12	E40	8906			20	1N	M 1.3						8.5E-03
SVTO		0930	0932U	1001D	S15	E40	8906	03	14.4	31D	1F		3	E		102		F
GOES		1041	1044	1046						5		C 1.4						3.9E-04
GOES		1106	1114	1119	S15	E39	8906			13	SF	C 5.7						2.7E-03
SVTO		1109	1114	1122	S15	E39	8906	03	14.4	13	SF		3	E		97		F
GOES		1159	1205	1209						10		C 2.4						1.1E-03
GOES		1422	1442	1446	N21	W39	8904			24	SF	C 4.5						3.0E-03
HOLL		1424	1444	1455	N21	W39	8904	03	8.6	31	SF		3	E		52		
SVTO		1425	1442	1455D	N22	W39	8904	03	8.6	30D	SF		3	E		49		FH
RAMY		1426	1430	1435	N21	W41	8904	03	8.4	9	SF		3	E		30		
RAMY		1439	1443	1456	N24	W41	8904	03	8.4	17	SF		3	E		33		FH
GOES		1517	1542	1558			8900			41		C 5.9						8.9E-03

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
HOLL	11	1520	1520	1529	S16	E37	8906	03	14.4	9	SF		3	E		40		
HOLL		1536	1541	1609	S12	W72	8900	03	6.2	33	SF		3	E		69		
SVTO		1537	1539	1604	S13	W71	8900	03	6.3	27	SF		3	E		50		F
RAMY		1538	1538	1601	S14	W73	8900	03	6.1	23	SF		3	E		30		FH
HOLL		1603	1605	1616	S18	E33	8906	03	14.2	13	SF		3	E		40		
GOES		1637	1718	1738	S18	E32	8906			61	SF	C 2.6						7.8E-03
HOLL		1641	1717	1729	S18	E32	8906	03	14.1	48	SF		3	E		43		
HOLL		2122	2135	2200	N22	W43	8904	03	8.6	38	SF		3	E		74		
GOES		2126	2134	2140	N22	W43	8904			14	SF	C 6.9						4.0E-03
GOES	12	0038	0042	0045						7		C 2.7						9.3E-04
LEAR		0139	0141	0232	N20	W49	8904	03	8.3	53	SF		3	E		18		
LEAR		0233	0249	0254	N19	W50	8904	03	8.3	21	SF		3	E		28		
GOES		0258	0305	0316	N23	W45	8904			18	SF	C 2.3						2.2E-03
LEAR		0300	0311	0335	N23	W45	8904	03	8.6	35	SF		3	E		48		
LEAR		0357	0358	0411	N18	W48	8904	03	8.5	14	SF		3	E		15		
GOES		0425	0431	0435	N18	W49	8904			10	SF	C 4.7						2.0E-03
LEAR		0428	0431	0441	N18	W49	8904	03	8.4	13	SF		3	E		38		
GOES		0607	0616	0631	S12	E23	8906			24	SF	C 2.5						3.3E-03
LEAR		0610	0611	0614	S16	E28	8906	03	14.4	4	SF		3	E		29		F
LEAR		0615	0615	0624	S12	E23	8906	03	14.0	9	SF		3	E		20		F
GOES		0636	0639	0643						7		C 5.4						1.8E-03
LEAR		0745	0745	0749	S19	W51	8898	03	8.4	4	SF		3	E		16		
GOES		0900	0909	0927	S13	E27	8906			27	SF	C 5.8						7.8E-03
LEAR		0903	0904	0940	S13	E27	8906	03	14.4	37	SF		3	E		43		F
GOES		1022	1026	1029						7		C 2.2						7.2E-04
GOES		1128	1131	1136			8898			8		C 1.4						6.2E-04
RAMY		1129	1130	1135	S12	W41	8903	03	9.4	6	SF		3	E		19		F
RAMY		1130	1131	1141	S14	W53	8898	03	8.5	11	SF		3	E		33		F
GOES		1205	1222	1234	S20	E22	8906			29	SF	C 2.4						3.7E-03
RAMY		1219	1223	1234	S20	E22	8906	03	14.2	15	SF		3	E		13		F
HOLL		1422	1425	1431	S07	W28	8905	03	10.5	9	SF		3	E		48		
HOLL		1713	1721	1739	N24	W53	8904	03	8.6	26	1F		3	E		101		
RAMY		1717	1723	1734	N19	W55	8904	03	8.5	17	SF		3	E		39		F
GOES		1717	1725	1733	N19	W55	8904			16	SF	C 3.5						2.9E-03
HOLL		1724	1724	1736	S18	E19	8906	03	14.2	12	SF		3	E		38		
GOES		1845	1851	1900	S14	W54	8898			15	1F	C 6.4						3.8E-03
HOLL		1847	1852	1909	S14	W54	8898	03	8.7	22	1F		3	E		174		
GOES		2028	2058	2135						67		C 2.2						7.6E-03
GOES		2302	2308	2314	S17	E20	8906			12	SF	C 3.9						2.0E-03
HOLL		2304	2345	2401	S18	E19	8906	03	14.4	57	1N		3	E		182		
LEAR		2306	2308	2325	S17	E20	8906	03	14.5	19	SF		3	E		43		F
GOES		2330	2338	2343	S15	E19	8906			13	1B	M 3.6						1.6E-02
LEAR		2333	2335	2335D	S15	E19	8906	03	14.4	2D	1B		3	E		113		F
GOES	13	0046	0055	0107						21		C 2.6						2.7E-03
LEAR		0131	0133	0136	S14	W46	8898	03	9.6	5	SF		3	E		30		
LEAR		0159	0202	0218	S10	E14	8906	03	14.1	19	SF		3	E		44		
GOES		0230	0234	0237	N09	E69	8910			7	SF	C 1.4						5.0E-04
LEAR		0231	0234	0243	N09	E69	8910	03	18.3	12	SF		3	E		21		
GOES		0459	0507	0514	S17	E15	8906			15	SN	C 6.8						4.0E-03
LEAR		0502	0504	0530	S17	E15	8906	03	14.3	28	SN		3	E		59		
LEAR		0656	0656	0659	N28	W80	8904	03	7.0	3	SF		3	E		18		
GOES		0713	0729	0738	S15	E14	8906			25	SF	C 3.9						4.7E-03
SVTO		0716	0721	0750	S15	E15	8906	03	14.4	34	SF		3	E		47		F
LEAR		0716	0729	0756	S15	E14	8906	03	14.4	40	SF		3	E		36		
GOES		0820	0827	0836	S15	E13	8906			16	SF	C 3.7						2.7E-03
SVTO		0827E	0828U	0851	S15	E13	8906	03	14.3	24D	SF		3	E		51		F
LEAR		0927	0933	1000	S18	E10	8906	03	14.1	33	SF		3	E		77		
GOES		0929	0942	0957	S18	E10	8906			28	SF	C 2.7						3.9E-03
SVTO		0931E	0935U	0956	S15	E13	8906	03	14.4	25D	SF		3	E		66		F
GOES		1038	1048	1101	S14	E11	8906			23	1N	M 1.4						1.5E-02
GOES		1435	1439	1444	N06	E57	8910			9	SF	C 2.4						9.7E-04
SVTO		1438	1439	1443	N06	E57	8910	03	17.9	5	SF		3	E		17		F
GOES		1507	1510	1514						7		C 1.4						5.6E-04
GOES		1609	1623	1628	S18	E09	8906			19	SF	C 3.5						2.5E-03
RAMY		1614	1621	1636	S18	E09	8906	03	14.4	22	SF		3	E		29		
GOES		1642	1649	1653						11		C 2.2						1.2E-03

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
GOES	13	1715	1730	1743	S14	W33	8901			28	SF	C 1.8						2.4E-03
RAMY		1723	1729	1741	S14	W33	8901	03	11.2	18	SF		3	E		27		F
GOES		1826	1832	1837						11		C 3.2						1.6E-03
GOES		1909	1915	1918						9		C 2.8						1.1E-03
GOES		2105	2109	2113						8		C 1.7						6.1E-04
GOES		2303	2314	2324						21		C 3.1						3.0E-03
GOES	14	0455	0509	0520	S19	E01	8906			25	SF	C 1.9						2.2E-03
LEAR		0507	0511	0516	S19	E01	8906	03	14.3	9	SF		3	E		46		FH
LEAR		0514	0515	0522	N08	E49	8910	03	17.9	8	SF		3	E		40		
LEAR		0540	0545	0607	N10	E55	8910	03	18.4	27	SF		3	E		18		
GOES		0745	0749	0753						8		C 1.3						5.7E-04
LEAR		0747	0749	0755	N08	E47	8910	03	17.8	8	SF		3	E		21		
LEAR		0800	0801	0804	S18	W02	8906	03	14.2	4	SF		3	E		35		
LEAR		0856	0902	0911	N08	E46	8910	03	17.8	15	SF		3	E		40		
GOES		0856	0905	0918	N08	E46	8910			22	SF	C 1.7						1.9E-03
GOES		1050	1059	1105						15		C 2.6						1.9E-03
GOES		1354	1357	1403						9		C 1.3						5.8E-04
HOLL		1438	1438	1440	S19	W02	8906	03	14.4	2	SF		3	E		18		
HOLL		1439	1440	1445	S15	W82	8898	03	8.4	6	SF		3	E		11		
HOLL		1442	1443	1446	S20	W02	8906	03	14.4	4	SF		3	E		29		F
HOLL		1709	1709	1716	N09	E49	8910	03	18.4	7	SF		3	E		10		
HOLL		1726	1728	1731	S16	W10	8906	03	14.0	5	SF		3	E		18		F
GOES		1732	1737	1744	N11	E48	8910			12	SF	C 1.9						1.2E-03
HOLL		1734	1737	1753	N11	E48	8910	03	18.3	19	SF		3	E		33		
HOLL		2021	2023	2032	S18	W06	8906	03	14.4	11	SF		3	E		22		
GOES		2043	2047	2057	S18	W09	8906			14	SF	C 2.2						1.4E-03
HOLL		2046	2052	2057	S18	W09	8906	03	14.2	11	SF		3	E		68		
GOES		2059	2105	2112	N09	E46	8910			13	SF	C 3.9						2.3E-03
HOLL		2101	2104	2124	N09	E46	8910	03	18.3	23	SF		3	E		61		
HOLL		2130	2131	2135	S15	W12	8906	03	14.0	5	SF		3	E		24		
HOLL		2226	2226	2256	S12	W50	8901	03	11.2	30	SF		3	E		18		
HOLL		2236	2247	2311	S17	W08	8906	03	14.3	35	SF		3	E		28		
GOES		2340	2344	2349						9		C 2.0						8.6E-04
GOES	15	0100	0103	0107						7		C 1.9						6.0E-04
GOES		0117	0120	0122						5		C 1.1						3.1E-04
GOES		0226	0233	0237						11		C 2.3						1.2E-03
GOES		0316	0320	0324						8		C 4.2						1.5E-03
GOES		0338	0342	0345						7		C 6.8						1.9E-03
GOES		0517	0520	0522						5		C 1.7						4.3E-04
GOES		0538	0543	0547						9		C 4.0						1.6E-03
GOES		0624	0628	0632						8		C 2.1						8.0E-04
GOES		0749	0754	0801						12		C 4.1						2.4E-03
GOES		1057	1100	1106						9		C 1.3						6.4E-04
RAMY		1220	1237	1249	S16	W23	8906	03	13.8	29	SF		3	E		16		
HOLL		1402	1402	1407	S18	W19	8906	03	14.1	5	SF		3	E		25		
GOES		1411	1414	1416	S15	W55	8901			5	SF	C 1.7						4.2E-04
HOLL		1414	1415	1425	S15	W55	8901	03	11.4	11	SF		3	E		34		
HOLL		1442	1500	1510	S14	W56	8901	03	11.4	28	SF		3	E		18		
HOLL		1457	1458	1501	S18	W18	8906	03	14.2	4	SF		3	E		19		
GOES		1556	1559	1601						5		C 1.2						3.2E-04
HOLL		1643	1643	1646	S18	W20	8906	03	14.2	3	SF		3	E		18		
GOES		1825	1832	1834						9		C 3.2						9.3E-04
HOLL		1826	1839	1916	S18	W21	8906	03	14.2	50	1N		3	E		160		F
RAMY		1828	1840	1902	S17	W20	8906	03	14.2	34	1F		3	E		113		F
GOES		1836	1840	1843	S18	W21	8906			7	1N	M 1.4						4.0E-03
GOES		2111	2115	2117						6		C 2.1						4.9E-04
GOES		2316	2320	2325						9		C 1.2						5.7E-04
GOES	16	0339	0344	0347	S12	E53	8913			8	SF	C 1.7						6.6E-04
LEAR		0347	0348	0357	S12	E53	8913	03	20.1	10	SF		3	E		25		
GOES		0420	0423	0425	S19	W31	8906			5	SF	C 2.1						4.5E-04
LEAR		0423	0423	0428	S19	W31	8906	03	13.8	5	SF		3	E		29		
LEAR		0517	0518	0523	S13	E53	8913	03	20.2	6	SF		3	E		13		
GOES		0617	0620	0625						8		C 1.6						6.7E-04
LEAR		0754	0755	0757	N09	E29	8910	03	18.5	3	SF		3	E		18		
GOES		1059	1108	1120	S14	W30	8906			21	SF	C 6.2						4.7E-03

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
SVTO	16	1109E	1120U	1139D	S14	W30	8906	03	14.2	30D	SF		3	E		30		ZF
GOES		1405	1420	1437	N10	E23	8910			32	SF	C 6.3						9.0E-03
SVTO		1409	1410	1441	N09	E24	8910	03	18.4	32	SF		3	E		47		F
RAMY		1409	1410	1444	N10	E23	8910	03	18.3	35	SF		3	E		31		F
GOES		1454	1457	1500	S15	W38	8906			6	SF	C 2.8						8.9E-04
SVTO		1456	1457	1502	S15	W38	8906	03	13.7	6	SF		3	E		30		F
GOES		1516	1524	1530	S14	W35	8906			14	SF	C 3.3						2.4E-03
SVTO		1517	1520	1534	S14	W35	8906	03	14.0	17	SF		3	E		23		F
GOES		1832	1838	1847	S17	W34	8906			15	1F	C 9.0						5.5E-03
HOLL		1838	1838	2007	S17	W34	8906	03	14.2	89	1F		3	E		160		
RAMY		1844E	1844U	1847D	S17	W33	8906	03	14.3	3D	SF		2	E		60		F
GOES		2044	2048	2052	N09	E21	8910			8	SF	C 1.6						7.3E-04
HOLL		2045	2046	2053	N09	E21	8910	03	18.4	8	SF		3	E		29		
HOLL		2115	2116	2134	N09	E20	8910	03	18.4	19	SF		3	E		30		
GOES		2204	2215	2240	N08	E19	8910			36	1F	C 6.6						1.1E-02
HOLL		2205	2209	2318	N08	E19	8910	03	18.3	73	1F		3	E		137		
GOES	17	0345	0409	0420						35		C 1.7						3.2E-03
GOES		0429	0435	0441						12		C 3.2						1.9E-03
GOES		0453	0458	0506						13		C 5.8						3.4E-03
GOES		0716	0720	0723	S16	W40	8906			7	SF	C 1.7						6.4E-04
SVTO		0719	0719	0723	S16	W40	8906	03	14.3	4	SF		3	E		21		F
GOES		0726	0730	0734	S15	W39	8906			8	SF	C 3.3						1.2E-03
SVTO		0729	0729	0736	S15	W39	8906	03	14.3	7	SF		3	E		15		F
GOES		0805	0817	0831	N13	E11	8910			26	SF	C 4.3						4.9E-03
SVTO		0809	0814U	0833	N13	E11	8910	03	18.2	24	SF		3	E		29		FH
SVTO		0934	0935	0948	N09	E12	8910	03	18.3	14	SF		3	E		24		F
GOES		0935	0938	0940	N09	E12	8910			5	SF	C 1.8						4.4E-04
GOES		1108	1125	1134	S14	W47	8906			26	SF	M 1.1						1.0E-02
SVTO		1111	1118	1146	S14	W47	8906	03	13.9	35	SF		3	E		90		F
HOLL		1412	1414	1421	S16	E34	8913	03	20.2	9	SF		3	E		32		
HOLL		1533	1533	1544	N09	E11	8910	03	18.5	11	SF		3	E		15		
HOLL		1702	1702	1723	S19	W48	8906	03	14.0	21	SF		3	E		12		
GOES		1708	1717	1721	S17	E32	8913			13	SF	C 1.7						1.2E-03
HOLL		1709	1711	1722	S17	E32	8913	03	20.1	13	SF		3	E		26		
GOES		1744	1748	1750						6		C 2.8						6.5E-04
GOES		1945	1955	1959	S18	W48	8906			14	SF	C 1.8						1.4E-03
HOLL		1949	1955	2005	S18	W48	8906	03	14.2	16	SF		3	E		32		
GOES		2153	2200	2214	S17	W47	8906			21	SF	C 3.6						3.6E-03
HOLL		2156	2203	2313	S17	W47	8906	03	14.3	77	SF		3	E		57		
GOES		2325	2411	2515	S18	W51	8906			110	SF	C 6.1						2.7E-02
LEAR		2352E	2355U	2546D	S18	W51	8906	03	14.1	114D	SF		3	E		62		
GOES	18	0352	0406	0412						20		C 3.1						3.1E-03
GOES		0843	0853	0908						25		C 2.7						3.5E-03
GOES		0918	0933	0943						25		C 3.0						3.9E-03
HOLL		1627	1633	1700	N09	W04	8910	03	18.4	33	SF		3	E		58		
HOLL		1758	1840	1905	N10	W03	8910	03	18.5	67	SF		3	E		57		
RAMY		1820	1823	1826	N10	W03	8910	03	18.5	6	SF		3	E		10		F
GOES		2047	2102	2116						29		M 2.1						2.4E-02
HOLL		2052	2057	2130	S16	W64	8906	03	14.0	38	1N		3	E		134		F
HOLL		2128	2136	2140	N09	W09	8910	03	18.2	12	SF		3	E		12		
GOES		2150	2154	2221	S31	W14	8909			31	1F	C 4.5						6.5E-03
HOLL		2152	2156	2226	S31	W14	8909	03	17.8	34	1F		3	E		112		F
HOLL		2153	2154	2157	S20	W66	8906	03	13.9	4	SF		3	E		60		
GOES		2313	2333	2353	N11	W09	8910			40	2N	M 2.6						3.8E-02
HOLL		2321	2332	2428D	N11	W09	8910	03	18.3	67D	2N		3	E		339		F
HOLL		2327	2331	2334	N19	E18		03	20.3	7	SF		3	E		20		
GOES		2353	2357	2419	S16	W61	8906			26	1N	M 3.9						4.5E-02
HOLL		2354	2355	2422	S16	W61	8906	03	14.4	28	1N		3	E		198		F
LEAR	19	0023E	0025U	0110D	N09	W09	8910	03	18.3	47D	1F		3	E		142		
LEAR		0024E	0028U	0054D	S18	W64	8906	03	14.1	30D	SF		3	E		45		
GOES		0156	0202	0210						14		C 5.5						4.3E-03
LEAR		0219E	0220U	0236D	N09	W08	8910	03	18.5	17D	SF		3	E		29		
LEAR		0220	0502	0506	N19	E16	8917	03	20.3	166	SF		3	E		28		
LEAR		0251E	0252U	0256D	N14	E59	8916	03	23.6	5D	SF		3	E		23		
LEAR		0710	0713	0721	N14	W14	8910	03	18.2	11	SF		4	E		12		E

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
SVTO	19	0748	0748	0800D	N13	W15	8910	03	18.2	12D	SF		3	E		26		F
GOES		0901	0917	0922	N11	W15	8910			21	SF	C 2.7						3.1E-03
LEAR		0903	0904	0912	N11	W15	8910	03	18.2	9	SF		3	E		16		E
SVTO		0904E	0904U	0911	N12	W14	8910	03	18.3	7D	SF		3	E		16		F
GOES		1103	1107	1115	S20	W69	8906			12	SF	C 2.2						1.4E-03
RAMY		1105E	1106U	1110	S20	W69	8906	03	14.2	5D	SF		2	E		15		
GOES		1136	1148	1200	S31	W21	8910			24	SF	C 5.3						5.8E-03
SVTO		1137	1143U	1212D	S29	W22	8909	03	17.7	35D	SF		3	E		76		US
RAMY		1138	1144	1209	S31	W21	8909	03	17.8	31	SF		3	E		55		S
SVTO		1148	1151U	1208D	N14	W15	8910	03	18.3	20D	SF		3	E		13		FH
HOLL		1410E	1411U	1427	S17	W72	8906	03	14.1	17D	SF		3	E		25		F
GOES		1412	1419	1429	S19	W72	8906			17	SF	C 2.9						2.5E-03
RAMY		1415	1415	1420	S19	W72	8906	03	14.1	5	SF		3	E		16		
HOLL		1441	1441	1938	N12	E61	8916	03	24.2	297	SF		3	E		39		T
HOLL		1444	1446	1453	N11	W20	8910	03	18.1	9	SF		3	E		22		
HOLL		1500	1503	1510	N09	W19	8910	03	18.2	10	SF		3	E		33		
HOLL		1557	1602	1615	N09	W16	8910	03	18.5	18	SF		3	E		18		
HOLL		1629	1633	1639	S18	W73	8906	03	14.1	10	SF		3	E		35		
HOLL		1652	1712	1917	N12	W19	8910	03	18.3	145	1F		3	E		170		
RAMY		1701	1708	1807	N11	W20	8910	03	18.2	66	SF		3	E		92		
GOES		1701	1756	1807			8906			66		M 1.6						3.6E-02
RAMY		1753	1753	1813	S17	W74	8906	03	14.1	20	SF		3	E		94		F
HOLL		1753	1755	1830	S17	W71	8906	03	14.3	37	1F		3	E		152		F
HOLL		1829	1832	1847	N20	E09	8917	03	20.4	18	SF		3	E		15		
HOLL		2144	2147	2200	N14	W21	8910	03	18.3	16	SF		3	E		25		
HOLL		2202	2208	2219	N14	W21	8910	03	18.3	17	SF		3	E		39		
RAMY		2206E	2207U	2219	N13	W21	8910	03	18.3	13D	SF		2	E		26		
HOLL		2215	2215	2223	N18	E48	8916	03	23.6	8	SF		3	E		74		
LEAR		2314	2337	2357	N31	W12	8918	03	19.0	43	SF		3	E		19		E
LEAR		2357	2358	2405	N31	W16	8918	03	18.7	8	SF		3	E		15		
LEAR	20	0053	0055	0117	N12	W23	8910	03	18.3	24	SF		3	E		15		FE
LEAR		0256	0306	0328	N15	W24	8910	03	18.3	32	SF		3	E		43		
LEAR		0433	0434	0453D	N31	W16	8918	03	18.9	20D	SF		3	E		64		F
LEAR		0434	0536	0557	N09	W24	8910	03	18.4	83	SF		4	E		39		
GOES		0527	0532	0535						8		C 2.2						1.0E-03
LEAR		0550	0551	0557	N34	W15	8918	03	19.0	7	SF		4	E		26		E
LEAR		0613	0652	0744	N12	W29	8910	03	18.1	91	SF		4	E		37		F
LEAR		0623	0631	0644	N32	W19	8918	03	18.8	21	SF		4	E		15		
GOES		0650	0702	0733			8910			43		C 2.6						5.9E-03
LEAR		0756	0756	0805	N35	W17	8918	03	19.0	9	SF		4	E		15		
LEAR		0805	0805	0810	N12	E60	8916	03	24.8	5	SF		4	E		12		
GOES		0821	0834	0850	S18	E92				29	2B	M 2.2						2.7E-02
LEAR		0825	0828	0842	S18	E92		03	27.3	17	2B		4	E		271		FS
LEAR		0827	0831	0841	N15	W40	8914	03	17.3	14	SF		4	E		16		
LEAR		0926	0928	1006	S15	E65		03	25.3	40	SF		3	E		82		
GOES		1002	1006	1015	S15	E65				13	SF	C 4.0						2.9E-03
GOES		1028	1035	1042						14		C 4.8						3.5E-03
GOES		1053	1059	1104	N11	W35	8910			11	SN	C 8.4						4.3E-03
RAMY		1054E	1054U	1111	N11	W35	8910	03	17.8	17D	SN		2	E		56		
RAMY		1154E	1154U	1154D	N11	W35	8910	03	17.9	17D	SN		2	E		56		
RAMY		1231	1235	1244	S31	W34	8909	03	17.8	13	SF		3	E		15		
HOLL		1421	1434	1453	N09	W28	8910	03	18.5	32	SF		3	E		88		
HOLL		1433	1439	1455	N14	E40	8916	03	23.6	22	SF		3	E		18		
GOES		1452	1458	1504	N31	W24	8918			12	SF	C 2.7						1.7E-03
HOLL		1454	1458	1515	N31	W24	8918	03	18.7	21	SF		3	E		32		
GOES		1528	1531	1533						5		C 2.5						5.6E-04
HOLL		1616	1617	1624	N11	W29	8910	03	18.5	8	SF		3	E		39		
HOLL		1625	1643	1707	N11	W39	8910	03	17.7	42	2B		3	E		304		
GOES		1637	1644	1650	N11	W39	8910			13	2B	M 2.4						1.2E-02
RAMY		1641	1643	1703	N11	W32	8910	03	18.3	22	1N		3	E		233		
GOES		1812	1816	1820	N13	W34	8910			8	SF	C 2.1						9.4E-04
RAMY		1815	1816	1819	N13	W34	8910	03	18.2	4	SF		3	E		26		F
RAMY		1903	1905	1908	N10	W32	8910	03	18.4	5	SF		3	E		19		
GOES		2307	2312	2315						8		C 4.2						1.6E-03
LEAR	21	0008	0008	0012	N14	W39	8910	03	18.0	4	SF		3	E		15		
LEAR		0031	0035	0039	N30	W32	8918	03	18.5	8	SF		3	E		27		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
LEAR	21	0041	0045U	0100D	N29	W32	8918	03	18.5	19D	SF		3	E		10		
LEAR		0111	0111	0115	N31	W29	8918	03	18.8	4	SF		3	E		26		
LEAR		0116	0121	0136D	N31	W29	8918	03	18.8	20D	SF		3	E		20		
LEAR		0234	0242	0308D	N13	W38	8910	03	18.2	34D	SF		3	E		37		
GOES		0236	0243	0249	N13	W38	8910			13	SF	C 5.2						3.4E-03
LEAR		0242	0242	0309D	S29	W34	8909	03	18.4	27D	SF		3	E		46		FE
LEAR		0401	0410	0428	N11	W36	8910	03	18.4	27	SF		3	E		63		F
LEAR		0656	0656	0700	N08	W37	8910	03	18.5	4	SF		3	E		14		F
LEAR		0701	0718	0755	N11	W39	8910	03	18.3	54	SF		3	E		96		FH
SVTO		0707	0714	0802D	N11	W40	8910	03	18.3	55D	SF		3	E		73		F
GOES		0717	0724	0728	N11	W39	8910			11	SF	C 7.1						4.0E-03
GOES		0742	0746	0749						7		C 5.3						1.8E-03
LEAR		0918	0930	1024D	N11	W41	8910	03	18.3	66D	SF		3	E		24		
GOES		1412	1424	1435			8918			23		M 1.0						1.2E-02
HOLL		1430	1511	1534D	N31	W36	8918	03	18.8	64D	SF		3	E		91		
HOLL		1446	1455	1532	N13	E64		03	26.4	46	SF		3	E		85		
HOLL		1518	1519	1521	N09	W42	8910	03	18.5	3	SF		3	E		14		
HOLL		1519	1519	1525	N11	E33	8916	03	24.1	6	SF		3	E		16		
RAMY		1603	1606	1613	N12	W47	8910	03	18.1	10	SF		3	E		42		
HOLL		1927	2006	2006D	N30	W41	8918	03	18.6	39D	1F		3	E		103		
GOES		2128	2141	2157						29		C 8.8						1.2E-02
GOES	22	0107	0118	0129	N16	W48	8921			22	1N	M 1.9						1.7E-02
LEAR		0110	0115	0152	N16	W48	8910	03	18.4	42	1N		4	E		209		F
LEAR		0129	0130	0149	S20	E50	8921	03	25.9	20	SF		3	E		43		F
LEAR		0221	0222	0227	N32	W50	8918	03	18.1	6	SF		3	E		21		
LEAR		0524	0524	0527	N09	W50	8910	03	18.5	3	SF		3	E		12		
LEAR		0537	0537	0545	N31	W45	8918	03	18.7	8	SF		3	E		20		
LEAR		0539	0541	0549	S17	E46	8921	03	25.7	10	SF		4	E		12		
LEAR		0653	0701	0705	S17	E45	8921	03	25.7	12	SF		4	E		13		
LEAR		0714	0721	0800	N19	W25	8917	03	20.4	46	SF		4	E		83		
GOES		0715	0721	0731	N19	W25	8917			16	SF	C 5.5						4.2E-03
SVTO		0719	0721	0740	N21	W25	8917	03	20.4	21	SF		3	E		61		F
LEAR		0720	0722	0725	N31	W46	8918	03	18.7	5	SF		4	E		14		
LEAR		0732	0733U	0745D	S17	E45	8921	03	25.7	13D	SF		4	E		20		
LEAR		0758	0811	0818	N31	W46	8918	03	18.7	20	SF		3	E		19		
GOES		0918	0925	0935						17		C 3.8						3.4E-03
GOES		1047	1107	1115	S16	W30	8913			28	SF	C 9.3						9.0E-03
SVTO		1049	1049	1104D	S16	W30	8913	03	20.2	15D	SF		3	E		53		FH
SVTO		1116	1117	1122	N31	W50	8918	03	18.5	6	SF		3	E		48		
SVTO		1129	1130	1136	N15	W68	8910	03	17.3	7	SF		3	E		16		F
RAMY		1221	1221	1229	N25	W47	8918	03	18.9	8	SF		3	E		12		
GOES		1303	1311	1332	N12	W57	8910			29	SF	C 5.1						7.5E-03
SVTO		1305	1308	1320	N15	W58	8910	03	18.1	15	SF		3	E		23		F
RAMY		1306	1306	1323	N12	W57	8910	03	18.2	17	SF		3	E		17		
HOLL		1704	1707	1712	N12	W58	8910	03	18.3	8	SF		3	E		16		
HOLL		1707	1708	1713	S16	W34	8913	03	20.1	6	SF		3	E		33		
GOES		1741	1744	1746	N19	W31	8917			5	SF	C 7.7						1.4E-03
RAMY		1741	1744	1749	N19	W31	8917	03	20.4	8	SF		3	E		52		
HOLL		1743	1744	1759	N21	W28	8917	03	20.6	16	1N		3	E		109		
HOLL		1757	1800	1811	N15	W59	8910	03	18.3	14	SF		3	E		26		
GOES		1816	1820	1822	N19	W29	8917			6	SF	C 3.5						1.1E-03
RAMY		1818	1820	1822	N19	W29	8917	03	20.5	4	SF		3	E		22		
HOLL		1819	1819	1837	N20	W32	8917	03	20.3	18	SF		3	E		57		
HOLL		1829	1844U	1847D	N14	W57	8910	03	18.5	18D	2N		3	E		382		UF
GOES		1834	1848	1856	N14	W57	8910			22	2N	X 1.1						8.7E-02
GOES	23	0027	0030	0033						6		M 1.3						3.5E-03
GOES		0055	0101	0105						10		C 9.3						3.4E-03
GOES		0159	0203	0206						7		C 5.0						1.5E-03
GOES		0322	0325	0332						10		C 4.1						1.9E-03
GOES		0406	0426	0428	S14	W38	8913			22	SF	C 2.8						3.4E-03
LEAR		0408	0409	0445D	S14	W38	8913	03	20.3	37D	SF		3	E		33		
LEAR		0423	0424	0445D	N16	W67	8910	03	18.1	22D	SF		3	E		18		
LEAR		0601	0621	0645	N23	W10	8915	03	22.5	44	SF		3	E		56		
GOES		0609	0613	0617	N23	W10	8915			8	SF	C 5.0						1.8E-03
SVTO		0747	0755U	0812	N17	E08	8916	03	23.9	25	SF		3	E		12		
GOES		0756	0821	0841	N19	W39	8917			45	SF	C 7.5						1.7E-02

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
SVTO	23	0800	0800	0805	N19	W38	8917	03	20.4	5	SF		3	E		11		F
LEAR		0801	0801	0808	N19	W39	8917	03	20.3	7	SF		3	E		33		
LEAR		0801	0802	0830	N09	W65	8910	03	18.4	29	SF		3	E		22		
SVTO		0803	0805U	0812	N15	W67	8910	03	18.3	9	SF		3	E		12		F
SVTO		0814	0825U	0834	N14	E03	8916	03	23.6	20	SF		3	E		18		
SVTO		0858	0917	0941	N17	E07	8916	03	23.9	43	SF		3	E		15		
LEAR		0921	0932	0938	N17	E07		03	23.9	17	SF		3	E		14		
SVTO		1006	1023	1037	N14	E02	8916	03	23.6	31	SF		3	E		51		F
SVTO		1023	1024	1028	N21	W38	8917	03	20.5	5	SF		3	E		34		
SVTO		1023	1028	1032	N13	W67	8910	03	18.4	9	SF		3	E		13		F
GOES		1132	1214	1230	N15	W69	8910			58	SF	M 2.0						4.1E-02
RAMY		1136E	1136U	1221D	N14	W70	8910	03	18.2	45D	SF		2	E		54		F
SVTO		1136	1137	1146	N15	W69	8910	03	18.2	10	SF		3	E		13		H
SVTO		1154	1159	1224	N16	W68	8910	03	18.3	30	SF		3	E		24		F
SVTO		1308	1312	1321	N17	E06		03	24.0	13	SF		3	E		24		FH
HOLL		1427	1428	1431	N08	W72	8910	03	18.2	4	SF		3	E		32		
HOLL		1443	1501	1514	S16	E41	8921	03	26.7	31	SF		3	E		25		
HOLL		1448	1448	1453	N17	E00	8916	03	23.6	5	SF		3	E		11		
SVTO		1552	1554	1600	N17	E03		03	23.9	8	SF		3	E		11		
GOES		1629	1634	1640						11		C 2.8						1.7E-03
HOLL		1758	1805	1821	S19	E41	8921	03	26.9	23	SF		3	E		39		
HOLL		1811	1813	1822	N10	W83	8910	03	17.5	11	SF		3	E		19		
HOLL		1816	1820	1849	N17	E02		03	23.9	33	SF		3	E		31		
HOLL		1828	1830	1833	S17	W48	8913	03	20.1	5	SF		3	E		10		
GOES		1913	1916	1925	N19	W45	8917			12	SF	C 2.6						1.7E-03
HOLL		1915	1916	1922	N19	W45	8917	03	20.4	7	SF		3	E		23		
HOLL		1937	1938	1940	N10	W72	8910	03	18.4	3	SF		3	E		19		
HOLL		2024	2025	2027	N32	W63	8918	03	18.9	3	SF		3	E		27		
HOLL		2125	2126	2129	N16	E02	8927	03	24.0	4	SF		3	E		12		
HOLL		2127	2129	2136	N11	W74	8910	03	18.3	9	SF		3	E		16		
GOES		2145	2154	2210	N11	W77	8910			25	SF	C 7.1						9.6E-03
HOLL		2146	2154	2214	N11	W77	8910	03	18.1	28	SF		3	E		31		
HOLL		2151	2211	2220	N16	E00	8927	03	23.9	29	SF		3	E		33		
HOLL		2230	2232	2239	N17	E00	8927	03	23.9	9	SF		3	E		35		
HOLL		2245	2254	2303	N17	W08	8927	03	23.3	18	SF		3	E		27		
HOLL		2308	2309	2312	N17	W08	8927	03	23.3	4	SF		3	E		14		
HOLL		2329	2330	2339	N20	E73		03	29.6	10	SF		3	E		23		
HOLL		2329	2340	2403	N16	W02	8927	03	23.8	34	SF		3	E		39		
LEAR		2359E	2401U	2406D	N17	W08	8927	03	23.4	7D	SF		2	E		17		
GOES	24	0035	0040	0047						12		C 3.1						2.0E-03
GOES		0309	0314	0317						8		C 4.4						1.8E-03
GOES		0430	0434	0438						8		C 8.5						3.5E-03
LEAR		0710	0713	0723	S10	W21	8926	03	22.7	13	SF		3	E		11		
GOES		0741	0752	0759	N16	W82	8910			18	2B	X 1.8						1.1E-01
SVTO		0745	0757	0829	N16	W82	8910	03	18.1	44	1N		3	E		158		FH
LEAR		0745E	0757U	0845D	N16	W82	8910	03	18.1	60D	2B		3	E		441		ZF
LEAR		0757	0757	0825	N19	W52	8917	03	20.4	28	SF		3	E		31		
SVTO		1113	1113	1124	N16	W06	8927	03	24.0	11	SF		3	E		13		
GOES		1125	1129	1133	N21	E67				8	SF	M 2.8						8.7E-03
SVTO		1127	1132	1134	N21	E67		03	29.6	7	SF		3	E		38		
SVTO		1145	1147	1156	S09	W23	8926	03	22.8	11	SF		3	E		10		F
HOLL		1438	1444	1454	N20	E64		03	29.5	16	SF		3	E		40		
SVTO		1440	1441	1444	N18	E64		03	29.5	4	SF		3	E		19		
GOES		1513	1522	1525						12		M 2.6						8.4E-03
HOLL		1534	1535	1547	S10	W26	8926	03	22.7	13	SF		3	E		20		
HOLL		1554	1554	1558	S18	E66	8925	03	29.7	4	SF		3	E		11		
GOES		1816	1824	1839						23		C 3.7						4.7E-03
GOES		2125	2135	2141						16		C 4.1						3.6E-03
GOES	25	0219	0225	0231						12		C 4.6						2.6E-03
GOES		0533	0546	0602						29		C 7.4						1.1E-02
GOES		0936	0942	0947	S09	W38	8926			11	SF	C 8.0						3.8E-03
SVTO		0939	0942U	1000	S09	W38	8926	03	22.5	21	SF		3	E		31		F
GOES		1220	1224	1228	S10	W38	8926			8	SF	C 5.0						1.7E-03
RAMY		1223	1224	1233	S10	W38	8926	03	22.7	10	SF		3	E		35		
SVTO		1227E	1227	1233	S09	W40	8926	03	22.5	6D	SF		3	E		20		F
GOES		1317	1321	1339	S10	W39	8926			22	SF	C 2.7						3.2E-03

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
RAMY	25	1318	1319	1325	S10	W39	8926	03	22.6	7	SF		3	E		18		
RAMY		1447	1451	1459	N10	E42	8924	03	28.8	12	SF		3	E		20		
HOLL		1447	1454	1512	N09	E43	8924	03	28.8	25	SF		3	E		65		
HOLL		1449E	1449U	1458	S19	E52	8925	03	29.6	9D	SF		3	E		12		
GOES		1530	1536	1545						15		C 2.8						2.2E-03
HOLL		1819	1822	1847	S18	E51	8925	03	29.6	28	SF		3	E		17		
GOES		1915	1920	1924	N17	E41	8928			9	SF	C 3.5						1.6E-03
RAMY		1918	1918	1928	N17	E41	8928	03	28.9	10	SF		3	E		31		
HOLL		2045	2055	2112	S18	E48	8925	03	29.5	27	SF		3	E		20		
GOES		2156	2205	2225	S09	W45	8926			29	SF	C 2.9						4.2E-03
HOLL		2158	2158	2203	S09	W45	8926	03	22.5	5	SF		3	E		10		
HOLL		2201	2208	2213	N10	E39	8924	03	28.8	12	SF		3	E		21		
HOLL		2206	2207	2210	N23	W07	8920	03	25.4	4	SF		3	E		14		
GOES		2231	2243	2252	S14	W02	8921			21	1F	C 7.4						6.9E-03
HOLL		2250	2253	2313	S14	W02	8921	03	25.8	23	1F		3	E		150		
HOLL		2253	2259	2306	S18	E47	8925	03	29.5	13	SF		3	E		17		
GOES	26	1138	1216	1251						73		C 4.5						1.5E-02
GOES		1329	1339	1343						14		C 2.9						2.0E-03
HOLL		1444	1508	1604	N08	W30	8916	03	24.4	80	SF		3	E		70		
GOES		1446	1507	1525	N08	W30	8916			39	SF	C 2.8						5.9E-03
RAMY		1456	1501	1525	N07	W31	8916	03	24.3	29	SF		3	E		18		
HOLL		1601	1606	1614	S18	E38	8925	03	29.6	13	SF		3	E		16		
HOLL		1618	1626	1632	S18	E01	8921	03	26.7	14	SF		3	E		16		
HOLL		1624	1624	1635	S18	E38	8925	03	29.6	11	SF		3	E		18		
HOLL		1638	1641	1644	S11	E27	8925	03	28.7	6	SF		3	E		10		
HOLL		1643	1645	1700	S17	W13	8921	03	25.7	17	SF		3	E		42		
RAMY		1645	1645	1649	S18	E01	8921	03	26.8	4	SF		3	E		11		
HOLL		1726	1736	1803	S10	W54	8926	03	22.7	37	1N		3	E		121		
GOES		1727	1734	1739	S12	W55	8926			12	SF	M 2.3						9.9E-03
RAMY		1731	1736	1752	S12	W55	8926	03	22.6	21	SF		3	E		95		FS
HOLL		1802	1806	1810	S17	W14	8921	03	25.7	8	SF		3	E		12		
GOES		2205	2212	2220	S09	W59	8926			15	SF	C 4.1						2.9E-03
HOLL		2206	2212	2234	S09	W59	8926	03	22.5	28	SF		3	E		51		
RAMY		2207E	2207U	2222D	S11	W58	8926	03	22.5	15D	SF		2	E		18		F
GOES	27	0107	0115	0124	S10	W58	8926			17	SF	C 9.6						6.6E-03
LEAR		0111	0112	0115D	S10	W58	8926	03	22.7	4D	SF		3	E		60		
GOES		0316	0327	0337						21		C 4.3						4.3E-03
GOES		0512	0518	0522	S10	W62	8926			10	1N	M 1.0						3.6E-03
LEAR		0514	0519	0601	S10	W62	8926	03	22.5	47	1N		3	E		128		
LEAR		0551	0553	0608	N11	E26	8924	03	29.2	17	SF		3	E		21		
GOES		0637	0654	0714						37		C 2.3						4.4E-03
GOES		0746	0755	0806	S17	E42	8931			20	SF	C 2.3						2.5E-03
SVTO		0757	0759	0808	S17	E42	8931	03	30.5	11	SF		3	E		14		U
GOES		1034	1042	1049	S10	W65	8926			15	SF	C 6.2						3.9E-03
SVTO		1039	1045	1055	S10	W65	8926	03	22.5	16	SF		3	E		41		UH
GOES		1356	1400	1404	S09	W69	8926			8	1F	C 8.4						2.5E-03
SVTO		1358	1400	1412	S08	W68	8926	03	22.5	14	SF		3	E		90		H
RAMY		1359	1400	1414	S11	W66	8926	03	22.6	15	1F		3	E		108		
HOLL		1359	1400	1439	S09	W69	8926	03	22.4	40	1F		3	E		211		
GOES		1413	1419	1423	S11	W68	8926			10	SF	C 7.9						3.6E-03
RAMY		1415	1415	1420	S11	W68	8926	03	22.5	5	SF		3	E		19		
SVTO		1415	1422U	1426	S08	W68	8926	03	22.5	11	SF		3	E		11		F
HOLL		1433	1435	1506	N10	E20	8924	03	29.1	33	SF		3	E		19		
GOES		1529	1535	1538	S10	W69	8926			9	SF	C 8.9						3.0E-03
HOLL		1532	1538	1545	S10	W69	8926	03	22.5	13	SF		3	E		37		
RAMY		1537	1537	1541	S12	W68	8926	03	22.5	4	SF		3	E		11		
HOLL		1614	1615	1649	N20	E58		04	1.1	35	SF		3	E		81		
HOLL		1646	1646	1651	N17	W57	8927	03	23.4	5	SF		3	E		12		
HOLL		1714	1715	1718	N17	W57	8927	03	23.4	4	SF		3	E		13		
HOLL		2038	2039	2045	S18	E20	8925	03	29.4	7	SF		3	E		20		
HOLL		2105	2116	2120	S11	W71	8926	03	22.5	15	SF		3	E		18		
GOES		2112	2119	2125	S11	W71	8926			13	SF	C 4.7						3.0E-03
GOES	28	0010	0016	0024						14		C 2.5						1.8E-03
LEAR		0129	0131	0156	S19	W17	8921	03	26.8	27	SF		3	E		46		
GOES		0134	0137	0139	S11	W73	8926			5	SF	M 3.1						4.8E-03

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
LEAR	28	0136	0138	0200	S11	W73	8926	03	22.6	24	SF		3	E		43		
GOES		0209	0216	0222	S09	W74	8926			13	1F	C 4.5						2.8E-03
LEAR		0211	0214	0225	S09	W74	8926	03	22.5	14	1F		3	E		131		
LEAR		0215	0217	0225	N10	E13	8924	03	29.1	10	SF		3	E		44		
LEAR		0230	0230	0237	N10	E11	8924	03	28.9	7	SF		3	E		17		F
GOES		0345	0350	0352						7		C 1.9						6.9E-04
LEAR		0611	0613	0615	S16	W28	8921	03	26.1	4	SF		3	E		15		
GOES		0742	0746	0748						6		C 2.4						7.1E-04
GOES		0831	0834	0836						5		C 2.2						5.8E-04
GOES		1032	1059	1108						36		C 1.8						3.6E-03
GOES		1318	1347	1415						57		C 3.0						7.8E-03
GOES		1626	1643	1657						31		C 4.7						7.7E-03
GOES		1903	1914	1922						19		C 8.7						7.3E-03
GOES		2027	2040	2049						22		C 4.0						4.6E-03
GOES		2210	2219	2228						18		C 4.4						4.0E-03
GOES		2248	2252	2255	S17	E82				7	SF	C 3.8						1.3E-03
HOLL		2250	2251	2255	S17	E82		04	4.2	5	SF		2	E		32		
HOLL		2256	2306	2331	S14	E21	8931	03	30.5	35	SF		3	E		68		U
HOLL	29	0040E	0041	0048	S18	E10	8925	03	29.8	8D	SF		2	E		40		
GOES		0136	0142	0149						13		C 6.0						3.9E-03
GOES		0513	0518	0532						19		C 6.7						6.1E-03
GOES		0919	0924	0932						13		C 2.7						1.8E-03
GOES		1114	1118	1121						7		C 1.8						6.5E-04
HOLL		1429	1433	1445	S17	W02	8925	03	29.4	16	SF		3	E		46		
SVTO		1431	1433	1441	S20	E00	8925	03	29.6	10	SF		3	E		24		F
GOES		1830	1847	1858	S17	E75	8936			28	SF	C 4.4						4.6E-03
HOLL		1845	1847	1857	S17	E75	8936	04	4.5	12	SF		3	E		51		
HOLL		1952	1954	1957	S17	E71	8936	04	4.2	5	SF		3	E		16		
HOLL		2140	2141	2145	N14	W80	8916	03	23.8	5	SF		3	E		19		
HOLL		2205	2205	2210	S17	E71	8936	04	4.3	5	SF		3	E		12		
HOLL		2219	2219	2223	S17	E69	8936	04	4.2	4	SF		3	E		16		
HOLL	30	0005	0009	0016	S17	E70	8936	04	4.3	11	SF		3	E		28		
HOLL		0053E	0059U	0110D	S17	E68	8936	04	4.2	17D	SF		2	E		59		
GOES		0054	0058	0102	S17	E68	8936			8	SF	C 8.4						2.6E-03
LEAR		0128	0138	0151	S18	E72	8936	04	4.5	23	SF		3	E		28		
LEAR		0211	0215U	0218D	S18	E70	8936	04	4.4	7D	SF		3	E		24		
LEAR		0225	0225U	0250D	S18	E70	8936	04	4.4	25D	SF		3	E		23		
LEAR		0316	0316	0323	S17	E71	8936	04	4.5	7	SF		3	E		13		
GOES		0341	0346	0356						15		C 2.3						1.9E-03
LEAR		0446	0446	0456	S11	W19	8925	03	28.8	10	SF		3	E		19		
GOES		0659	0714	0743	N12	E76				44	SF	M 1.2						2.5E-02
SVTO		0710E	0710U	0723	N12	E76		04	5.0	13D	SF		3	E		68		F
SVTO		0752	0755	0801	S17	E68	8936	04	4.5	9	SF		3	E		50		FH
GOES		0912	0915	0917						5		C 2.2						5.6E-04
GOES		0932	0938	0947	S17	E67	8936			15	SF	C 4.0						2.9E-03
SVTO		0934	0936	0948	S17	E67	8936	04	4.5	14	SF		3	E		64		F
SVTO		0943	0944	0952	S17	W48	8921	03	26.7	9	SF		3	E		20		F
GOES		1239	1245	1250	S16	E64	8936			11	SF	M 1.3						5.7E-03
SVTO		1242	1243	1259	S17	E64	8936	04	4.4	17	SF		3	E		51		F
RAMY		1242	1245	1300	S16	E64	8936	04	4.4	18	SF		4	E		55		F
SVTO		1256	1259	1305	S16	W13	8925	03	29.5	9	SF		3	E		22		FH
RAMY		1257	1258	1304	S17	W13	8925	03	29.5	7	SF		4	E		17		UF
GOES		1349	1402	1414	S17	W15	8925			25	SF	C 2.4						3.1E-03
RAMY		1351	1351	1416	S17	W15	8925	03	29.4	25	SF		4	E		29		F
SVTO		1351	1410	1410	S16	W16	8925	03	29.4	19	SF		3	E		18		FH
HOLL		1357E	1440	1510	S16	W15	8925	03	29.4	73D	1F		3	E		181		
HOLL		1426	1433	1441	S15	E63	8936	04	4.4	15	SF		3	E		58		
GOES		1435	1442	1449	S17	W15	8925			14	SF	C 4.0						2.7E-03
RAMY		1437	1440	1458	S17	W15	8925	03	29.5	21	SF		4	E		77		F
SVTO		1438	1439	1451	S16	W15	8925	03	29.5	13	SF		3	E		36		F
HOLL		1457	1457	1504	S19	W52	8921	03	26.6	7	SF		3	E		23		
GOES		1509	1516	1524	S18	W16	8925			15	SF	C 3.3						2.4E-03
SVTO		1512	1513	1528	S16	W16	8925	03	29.4	16	SF		3	E		15		FH
RAMY		1512	1519	1536	S18	W16	8925	03	29.4	24	SF		4	E		45		UF
GOES		1558	1607	1612	S17	E63	8936			14	1N	M 3.4						1.4E-02
RAMY		1601	1606	1629	S17	E63	8936	04	4.4	28	1N		4	E		156		ZF

Hα SOLAR FLARES

MARCH 2000

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
SVTO	30	1601	1609	1630	S17	E59	8936	04	4.1	29	1N		3	E		154		F
HOLL		1605E	1609	1720D	S17	E63	8936	04	4.4	75D	1B		2	E		141		
GOES		1723	1727	1735						12		C 1.9						1.2E-03
RAMY		1756	1801	1818	S17	E63	8936	04	4.5	22	SF		4	E		17		
GOES		1758	1802	1811	S17	E63	8936			13	SF	C 4.3						2.7E-03
GOES		1849	1856	1905	S17	E62	8936			16	SF	C 3.0						2.3E-03
RAMY		1854	1854	1858	S17	E62	8936	04	4.5	4	SF		4	E		38		FH
RAMY		1923	1925	1927	N22	E74	8939	04	5.5	4	SF		4	E		34		
HOLL		2007	2008	2011	S16	E60	8936	04	4.4	4	SF		3	E		18		
HOLL		2008	2017	2023	S05	E58	8938	04	4.2	15	SF		3	E		24		
RAMY		2035	2036	2041	S18	E60	8936	04	4.4	6	SF		3	E		15		F
HOLL		2039	2040	2042	S15	E59	8936	04	4.3	3	SF		3	E		19		
HOLL		2050	2054	2127	N23	E69	8939	04	5.2	37	SF		3	E		24		
HOLL		2051	2053	2057	N26	E60		04	4.5	6	SF		3	E		13		
GOES		2228	2232	2240	S06	E21	8935			12	SF	C 2.4						1.6E-03
HOLL		2235	2253	2405	S06	E21	8935	04	1.5	90	SF		3	E		15		
GOES		2317	2324	2327	S15	E59	8936			10	2B	M 2.0						6.3E-03
HOLL		2323	2325	2405	S15	E59	8936	04	4.4	42	2B		3	E		287		
HOLL		2324	2327	2404	S17	W20	8925	03	29.4	40	SF		3	E		34		
LEAR		2326E	2326U	2341	S15	E59	8936	04	4.4	15D	2N		3	E		284		
LEAR		2326E	2326U	2358	S17	W20	8925	03	29.4	32D	SF		3	E		48		
LEAR		2326E	2334	2340	S08	E20	8935	04	1.5	14D	SF		3	E		12		
LEAR	31	0031	0032	0051	S17	E55	8936	04	4.2	20	1F		3	E		150		
GOES		0216	0225	0237						21		C 2.1						2.4E-03
GOES		0318	0321	0323						5		C 3.1						7.9E-04
GOES		0458	0505	0511						13		C 3.1						2.1E-03
GOES		0512	0517	0524						12		C 9.5						4.9E-03
GOES		0622	0652	0723	S15	E55	8936			61	SN	M 1.2						3.4E-02
LEAR		0632	0636	0702D	S15	E55	8936	04	4.4	30D	SN		3	E		75		
LEAR		0643	0652	0702D	S16	W25	8925	03	29.4	19D	SF		3	E		64		
LEAR		0645	0657	0702D	N22	E65	8939	04	5.3	17D	SF		3	E		39		
LEAR		0732	0806	0833	N22	E64	8939	04	5.2	61	SF		3	E		27		
GOES		0750	0755	0758	N22	E64	8939			8	SF	M 1.0						3.7E-03
LEAR		0759	0801	0818	S17	E51	8936	04	4.2	19	SF		3	E		77		
LEAR		0801	0804	0809	N15	W09	8933	03	30.6	8	SF		3	E		14		
GOES		0926	0932	0938	S17	E53	8936			12	SF	C 8.5						4.8E-03
SVTO		0932E	0932U	0946	S17	E53	8936	04	4.4	14D	SF		2	E		17		F
GOES		1001	1004	1009	N24	E67	8939			8	SF	C 2.7						1.1E-03
SVTO		1005E	1005U	1008D	N24	E67	8939	04	5.6	3D	SF		2	E		20		
GOES		1013	1019	1024	N23	E65	8939			11	SF	M 4.1						1.7E-02
SVTO		1015E	1017U	1044	N23	E65	8939	04	5.4	29D	SF		2	E		67		H
GOES		1141	1146	1149	S15	E53	8936			8	SF	C 6.5						2.4E-03
RAMY		1144	1144	1158	S15	E53	8936	04	4.5	14	SF		3	E		34		
SVTO		1144	1145U	1152D	S17	E53	8936	04	4.5	8D	SF		2	E		39		F
GOES		1312	1318	1323	N24	E60	8939			11	SF	M 1.8						7.7E-03
SVTO		1314	1315	1331D	N21	E61	8939	04	5.2	17D	SF		2	E		51		F
RAMY		1314	1316	1333	N24	E60	8939	04	5.2	19	SF		3	E		69		
GOES		1650	1655	1701	N23	E58	8939			11	SF	M 1.2						5.3E-03
RAMY		1654	1655	1704	N23	E58	8939	04	5.2	10	SF		3	E		37		
RAMY		1655	1655	1708	S16	E50	8936	04	4.5	13	SF		3	E		60		
RAMY		1841	1850	1959	S20	W26	8925	03	29.8	78	1N		3	E		206		
GOES		1842	1901	1905	S20	W26	8925			23	1N	M 2.0						1.6E-02
HOLL		1847E	1849U	1954D	S18	W30	8925	03	29.5	67D	1N		3	E		220		F
RAMY		1859	1900	1913	S16	E49	8936	04	4.5	14	SF		3	E		70		
HOLL		1905	1906	1913	S16	E48	8936	04	4.4	8	SF		3	E		18		
RAMY		1923	1923	1928	S16	E49	8936	04	4.5	5	SF		3	E		15		
GOES		2240	2247	2253	S17	E46	8936			13	SF	C 1.8						1.2E-03
HOLL		2252	2252	2309	S17	E46	8936	04	4.4	17	SF		3	E		47		
GOES		2336	2342	2349	S16	E45	8936			13	SF	C 1.9						1.4E-03
HOLL		2340	2342	2348	S16	E45	8936	04	4.4	8	SF		3	E		15		
LEAR		2358	2402	2409	N24	E60	8939	04	5.6	11	SF		3	E		48		

SOLAR RADIO EMISSION
Selected Fixed Frequency Events

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
01	8800	SVTO	4	S/F	0822.0	0825.0	7.0	480.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0824.0	0824.0	5.0	180.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1147.0	1147.0	1.0	29.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1210.0	1210.0	U	49.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1210.0	1210.0	U	37.0			QL=4 ST=2 TYP=3
	8800	PALE	20	GRF	1747.0	1801.0	16.0	100.0			QL=4 ST=2 TYP=2
	8800	SGMR	20	GRF	1755.0	1801.0	14.0	62.0			QL=4 ST=2 TYP=2
	2695	PALE	20	GRF	1756.0	1756.0	2.0	31.0			QL=4 ST=2 TYP=2
	2695	SGMR	20	GRF	1756.0	1756.0	14.0	23.0			QL=4 ST=2 TYP=2
	8800	PALE	8	S	2340.0	2340.0	1.0	38.0			QL=4 ST=2 TYP=3
02	8800	SVTO	4	S/F	0822.0	0825.0	7.0	480.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0823.0	0825.0	6.0	420.0			QL=2 ST=2 TYP=3
	2695	LEAR	4	S/F	0824.0	0824.0	4.0	200.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0824.0	0824.0	5.0	180.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0839.0	0840.0	3.0	93.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0840.0	0840.0	1.0	81.0			QL=4 ST=2 TYP=3
	8800	SVTO	49	GB	1337.0	1339.0	8.0	3700.0			QL=4 ST=2 TYP=6
	2695	SVTO	4	S/F	1337.0	1339.0	7.0	290.0			QL=4 ST=2 TYP=3
03	2695	LEAR	4	S/F	0211.0	0212.0	5.0	240.0			QL=4 ST=2 TYP=3
	8800	LEAR	49	GB	0211.0	0212.0	5.0	700.0			QL=2 ST=2 TYP=6
	8800	PALE	49	GB	0211.0	0212.0	4.0	750.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	0211.0	0212.0	4.0	300.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1044.0	1045.0	3.0	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1044.0	1045.0	3.0	88.0			QL=4 ST=2 TYP=3
05	8800	SVTO	8	S	0859.0	0859.0	U	37.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1319.0	1320.0	6.0	43.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1526.0	1526.0	U	27.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1530.0	1530.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1530.0	1530.0	4.0	36.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1530.0	1530.0	1.0	25.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1530.0	1530.0	1.0	64.0			QL=4 ST=2 TYP=3
06	2695	PALE	8	S	2301.0	2302.0	1.0	44.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2301.0	2302.0	1.0	31.0			QL=4 ST=2 TYP=3
07	8800	SVTO	8	S	0723.0	0723.0	1.0	59.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1511.0	1511.0	2.0	75.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1511.0	1511.0	U	71.0			QL=4 ST=3 TYP=3
	2695	SGMR	4	S/F	1602.0	1603.0	5.0	170.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1602.0	1603.0	5.0	640.0			QL=4 ST=2 TYP=6
	8800	SVTO	4	S/F	1602.0	1603.0	4.0	410.0			QL=4 ST=3 TYP=3
	2695	SVTO	8	S	1602.0	1603.0	2.0	140.0			QL=4 ST=3 TYP=3
	8800	PALE	8	S	2155.0	2155.0	1.0	150.0			QL=4 ST=2 TYP=3
08	8800	PALE	8	S	0024.0	0025.0	1.0	82.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0938.0	0938.0	1.0	80.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1057.0	1057.0	3.0	85.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1214.0	1214.0	1.0	59.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1214.0	1214.0	1.0	68.0			QL=4 ST=2 TYP=3
09	8800	SGMR	8	S	1403.0	1404.0	1.0	49.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1403.0	1404.0	1.0	49.0			QL=4 ST=2 TYP=3
10	8800	SGMR	20	GRF	1750.0	1754.0	12.0	42.0			QL=4 ST=2 TYP=2
	8800	PALE	4	S/F	2102.0	2105.0	8.0	68.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2103.0	2104.0	4.0	69.0			QL=4 ST=2 TYP=3
11	8800	LEAR	8	S	0016.0	0016.0	2.0	37.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0410.0	0411.0	8.0	190.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0922.0	0924.0	8.0	83.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0923.0	0924.0	6.0	83.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1111.0	1113.0	2.0	26.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1519.0	1519.0	1.0	63.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2130.0	2137.0	8.0	30.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2130.0	2132.0	4.0	35.0			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

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
12	8800	SVTO	4	S/F	0902.0	0903.0	8.0	320.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0903.0	0903.0	2.0	42.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0903.0	0904.0	4.0	320.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1024.0	1024.0	1.0	86.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1205.0	1206.0	3.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1205.0	1206.0	11.0	130.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1723.0	1724.0	5.0	410.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1724.0	1724.0	3.0	38.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	2304.0	2305.0	7.0	89.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	2333.0	2333.0	10.0	300.0			QL=2 ST=2 TYP=3
13	8800	LEAR	49	GB	0502.0	0503.0	6.0	700.0			QL=2 ST=2 TYP=6
	8800	LEAR	4	S/F	0714.0	0715.0	6.0	110.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0715.0	0715.0	8.0	96.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0821.0	0823.0	7.0	120.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0822.0	0823.0	5.0	130.0			QL=2 ST=2 TYP=3
	2695	LEAR	4	S/F	0931.0	0933.0	4.0	68.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0931.0	0932.0	3.0	41.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0931.0	0933.0	3.0	53.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1039.0	1041.0	13.0	190.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	1612.0	1621.0	24.0	110.0			QL=4 ST=2 TYP=8
	8800	SVTO	4	S/F	1618.0	1621.0	8.0	62.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1828.0	1829.0	5.0	60.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2108.0	2108.0	2.0	210.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2108.0	2108.0	3.0	210.0			QL=4 ST=2 TYP=3
14	8800	SGMR	8	S	1357.0	1357.0	1.0	65.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1357.0	1357.0	U	30.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2046.0	2046.0	U	27.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2046.0	2046.0	1.0	97.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2100.0	2102.0	3.0	67.0			QL=4 ST=2 TYP=3
15	8800	LEAR	8	S	0540.0	0541.0	1.0	68.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0540.0	0541.0	1.0	50.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	1219.0	1219.0	U	24.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1838.0	1838.0	3.0	47.0			QL=4 ST=2 TYP=3
16	8800	SVTO	4	S/F	1105.0	1106.0	4.0	54.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1516.0	1517.0	2.0	45.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	1518.0	1521.0	4.0	53.0			QL=4 ST=2 TYP=8
	8800	PALE	4	S/F	1834.0	1835.0	7.0	210.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1834.0	1835.0	8.0	69.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1834.0	1835.0	5.0	82.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1834.0	1835.0	5.0	400.0			QL=4 ST=2 TYP=3
17	8800	LEAR	8	S	0455.0	0456.0	1.0	26.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1113.0	1117.0U	12.0	84.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1114.0	1117.0	5.0	140.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1417.0	1417.0	1.0	280.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2155.0	2156.0	4.0	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2155.0	2156.0	4.0	270.0			QL=4 ST=2 TYP=3
18	8800	LEAR	8	S	0224.0	0225.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0224.0	0225.0	1.0	30.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2049.0	2053.0	12.0	490.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2051.0	2053.0	8.0	41.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2053.0	2053.0	8.0	220.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2153.0	2153.0	7.0	63.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2156.0	2156.0	U	71.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2156.0	2156.0	1.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	48	C	2325.0	2330.0	8.0	65.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	2326.0	2330.0	8.0	95.0			QL=4 ST=2 TYP=8
	8800	PALE	20	GRF	2326.0	2332.0	23.0	130.0			QL=4 ST=2 TYP=2
	2695	PALE	20	GRF	2326.0	2331.0	23.0	83.0			QL=4 ST=2 TYP=2
	2695	LEAR	4	S/F	2353.0	2354.0	9.0	380.0			QL=4 ST=2 TYP=3
	8800	LEAR	49	GB	2353.0	2354.0	2.0	540.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	2353.0	2354.0	6.0	380.0			QL=4 ST=2 TYP=3
	8800	PALE	49	GB	2353.0	2354.0	4.0	680.0			QL=4 ST=2 TYP=6

SOLAR RADIO EMISSION
Selected Fixed Frequency Events

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
19	2695	SGMR	4	S/F	1142.0	1143.0	4.0	44.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1142.0	1143.0	2.0	44.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1143.0	1143.0	3.0	22.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1414.0	1415.0	6.0	44.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1414.0	1415.0	6.0	53.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1415.0	1415.0	U	28.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1415.0	1415.0	U	48.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1706.0	1707.0	3.0	75.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1707.0	1712.0	11.0	72.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1752.0	1753.0	3.0	480.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1752.0	1753.0	4.0	310.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1752.0	1753.0	11.0	350.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1752.0	1753.0	11.0	500.0			QL=4 ST=2 TYP=6
20	2695	LEAR	8	S	0752.0	0752.0	2.0	60.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0752.0	0753.0	2.0	46.0			QL=4 ST=2 TYP=3
	2695	LEAR	20	GRF	0823.0	0827.0	22.0	120.0			QL=4 ST=2 TYP=2
	2695	SVTO	20	GRF	0823.0	0827.0	20.0	97.0			QL=4 ST=2 TYP=2
	8800	LEAR	48	C	0825.0	0828.0	22.0	50.0			QL=4 ST=2 TYP=8
	8800	SVTO	46	C	0825.0	0828.0	22.0	47.0			QL=4 ST=2 TYP=8
	2695	LEAR	4	S/F	0852.0	0853.0	8.0	48.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	1003.0	1003.0	7.0	220.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1003.0	1003.0	1.0	190.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1003.0	1003.0	1.0	65.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1054.0	1055.0	3.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1055.0	1055.0	1.0	39.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1638.0	1640.0	8.0	110.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1638.0	1644.0	8.0	44.0			QL=4 ST=2 TYP=3
21	8800	PALE	4	S/F	2128.0	2130.0	8.0	180.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2128.0	2130.0	8.0	40.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2129.0	2130.0	6.0	120.0			QL=2 ST=2 TYP=3
22	8800	PALE	4	S/F	0108.0	0117.0	10.0	540.0			QL=4 ST=2 TYP=3
	8800	LEAR	20	GRF	0109.0	0117.0	12.0	190.0			QL=4 ST=2 TYP=2
	8800	PALE	4	S/F	0109.0	0117.0	10.0	54000.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0109.0	0118.0	10.0	1.0			QL=4 ST=2 TYP=3
	2695	LEAR	20	GRF	0110.0	0118.0	9.0	73.0			QL=4 ST=2 TYP=2
	8800	SGMR	8	S	1743.0	1743.0	1.0	130.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1836.0	1843.0	26.0	1100.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	1837.0	1843.0	17.0	780.0			QL=4 ST=2 TYP=6
	2695	SGMR	49	GB	1837.0	1843.0	25.0	500.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	1838.0	1844.0	13.0	500.0			QL=4 ST=2 TYP=6
23	8800	PALE	8	S	0028.0	0028.0	1.0	96.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0059.0	0059.0	1.0	120.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	0059.0	0059.0	1.0	160.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1135.0	1135.0	1.0	64.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1135.0	1136.0	1.0	110.0			QL=4 ST=2 TYP=3
24	2695	LEAR	49	GB	0744.0	0747.0	13.0	610.0			QL=4 ST=2 TYP=6
	8800	LEAR	49	GB	0744.0	0746.0	13.0	1600.0			QL=2 ST=2 TYP=6
	2695	SVTO	49	GB	0744.0	0747.0	13.0	570.0			QL=4 ST=2 TYP=6
	8800	SVTO	48	C	0744.0	0746.0	13.0	1700.0			QL=4 ST=2 TYP=8
	2695	LEAR	4	S/F	0833.0	0835.0	21.0	99.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0833.0	0834.0	23.0	84.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0834.0	0834.0	1.0	31.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1519.0	1519.0	2.0	80.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1519.0	1520.0	1.0	65.0			QL=4 ST=2 TYP=3
26	8800	SGMR	4	S/F	1730.0	1731.0	6.0	52.0			QL=4 ST=2 TYP=3
27	8800	SVTO	4	S/F	0513.0	0515.0	7.0	82.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0514.0	0515.0	2.0	70.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1358.0	1359.0	3.0	92.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1358.0	1359.0	2.0	110.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1359.0	1359.0	2.0	27.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2114.0	2114.0	1.0	35.0			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

MARCH 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	8800	SVTO	8	S	0655.0	0655.0	U	25.0			QL=4 ST=2 TYP=3
30	2695	LEAR	4	S/F	0055.0	0057.0	4.0	20.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0056.0	0057.0	5.0	31.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0708.0	0709.0	3.0	56.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	0708.0	0709.0	2.0	87.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0708.0	0709.0	3.0	81.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0708.0	0709.0	3.0	67.0			QL=4 ST=2 TYP=3
	8800	SGMR	20	GRF	1604.0	1609.0	17.0	17.0			QL=4 ST=2 TYP=2
31	2695	LEAR	4	S/F	0633.0	0634.0	5.0	46.0			QL=4 ST=3 TYP=3
	2695	SVTO	4	S/F	1015.0	1016.0	3.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1015.0	1016.0	6.0	210.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1315.0	1315.0	2.0	67.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1315.0	1316.0	4.0	130.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1315.0	1316.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1315.0	1315.0	U	28.0			QL=4 ST=2 TYP=3

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

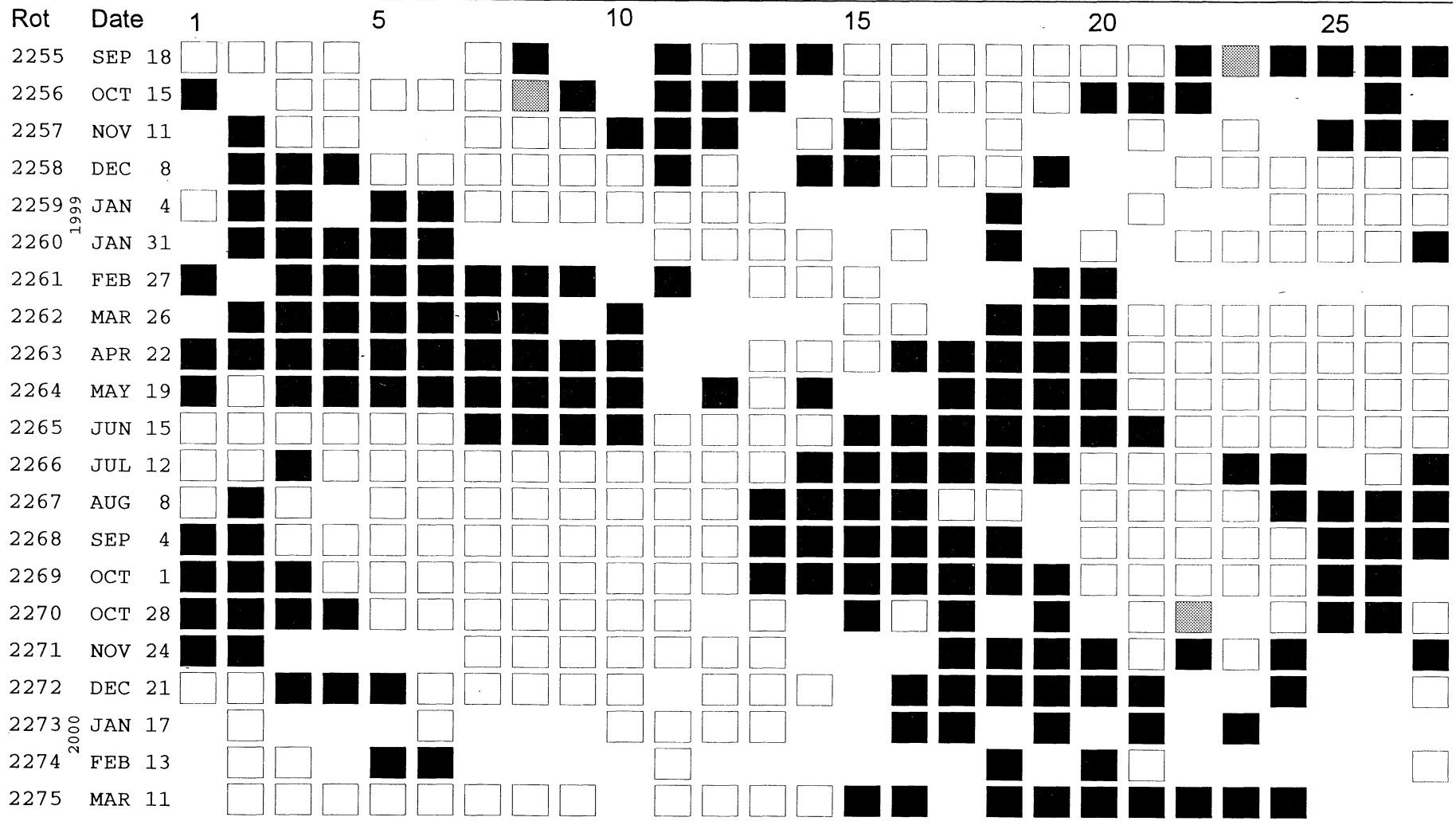
Explanation of Type Code:

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

1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A

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

STANFORD MEAN SOLAR MAGNETIC FIELD

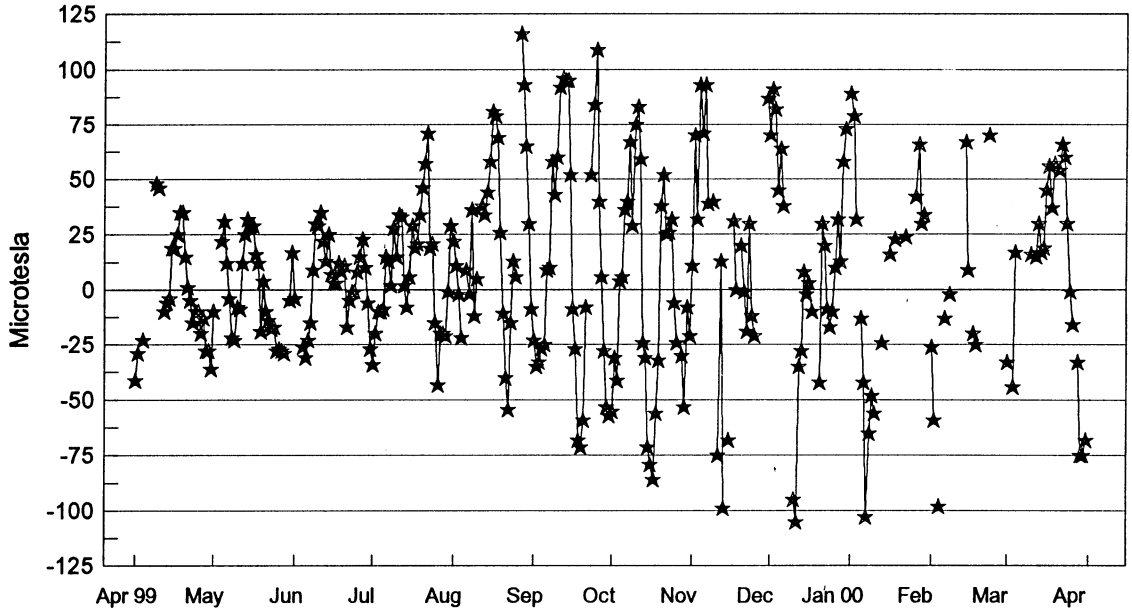


Mean Solar Magnetic Field Polarity: □ = field > 2 microT; ▒ = -2 microT ≤ field ≤ 2 microT

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

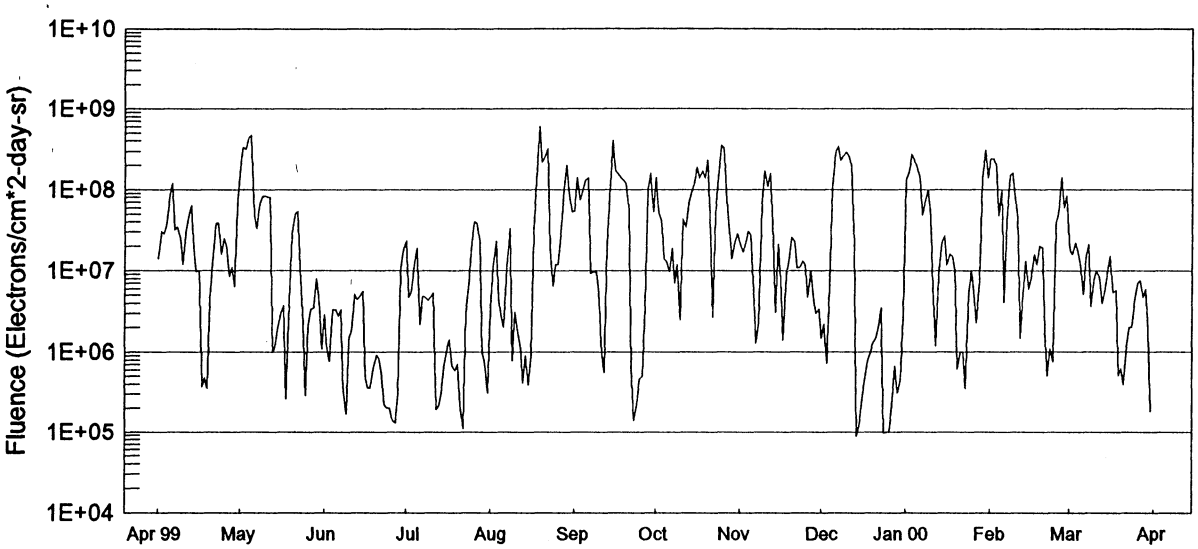
Observations are taken at 2000 UT. Rotation numbers given are the Bartels series, but the dates are not; these dates are five days earlier, to mark times of occurrence of phenomena on the Sun that affect the Earth during the given Bartels Rotation.

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



Day	Apr 99	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 00	Feb	Mar
1	-41	-10	-4	-34	22	-23	-55	11	70	89	-26	-33
2	-29	---	---	-20	11	-35	-31	70	91	79	-59	---
3	---	---	---	-10	-2	-33	-41	32	82	32	---	-44
4	-23	22	-26	-10	-22	-27	4	93	45	---	-98	17
5	---	31	-31	-9	---	-25	6	71	64	-13	---	---
6	---	12	-23	15	9	9	36	93	38	-42	-13	---
7	---	-4	-15	13	-2	10	40	39	---	-103	---	---
8	---	-22	9	2	36	58	67	---	---	-65	-2	---
9	48	-23	30	28	-12	43	29	40	---	-48	---	---
10	46	-8	29	15	5	60	75	---	-95	-56	---	16
11	---	-9	35	34	---	92	83	-75	-105	---	---	---
12	-10	12	22	33	38	96	59	13	-35	---	---	15
13	-6	25	13	2	34	95	-24	-99	-28	-24	---	30
14	-4	32	25	-8	44	95	-31	---	8	---	67	17
15	19	29	7	6	58	52	-71	-68	-2	---	9	19
16	19	29	3	29	81	-9	-79	---	3	16	---	45
17	25	16	3	19	79	-27	-86	31	-10	---	-20	56
18	35	12	12	21	69	-68	-56	0	---	23	-25	37
19	35	-19	8	34	26	-71	-32	---	---	---	---	57
20	15	4	11	46	-11	-59	38	20	-42	---	---	---
21	1	-10	-17	57	-40	-8	52	-1	30	---	---	54
22	-5	-14	-5	71	-54	---	25	-19	20	24	---	66
23	-15	-18	-1	19	-15	52	26	30	-9	---	70	60
24	-10	-17	-1	21	13	84	32	-12	-17	---	---	30
25	-10	-28	8	-15	6	109	-6	-21	-10	---	---	-1
26	-20	-27	15	-43	---	40	-24	---	10	42	---	-16
27	-13	-28	23	-20	116	6	---	---	32	66	---	---
28	-28	-29	10	-20	93	-28	-30	---	13	30	---	-33
29	-28	---	-6	-21	65	-53	-53	---	58	34	---	-75
30	-36	-5	-27	-1	30	-57	-8	87	73	---		-75
31		17		29	-9		-21		---	---		-68

GOES Daily Electron Fluence
Apr 1999 - Mar 2000



Day	Apr 99	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 00	Feb	Mar
1	1.4E+07	1.9E+08	2.9E+06	2.3E+07	3.4E+06	5.5E+07	1.4E+08	2.2E+07	1.5E+06	1.3E+08	2.4E+08	1.8E+07
2	3.0E+07	3.3E+08	1.1E+06	4.7E+06	1.1E+07	1.4E+08	5.4E+07	1.7E+07	2.2E+06	1.7E+08	2.4E+08	1.6E+07
3	2.9E+07	3.2E+08	7.7E+05	5.5E+06	2.3E+07	7.5E+07	4.1E+07	2.2E+07	7.3E+05	2.7E+08	2.0E+08	2.2E+07
4	3.6E+07	4.4E+08	3.3E+06	1.2E+07	4.5E+06	9.7E+07	1.4E+07	3.1E+07	6.6E+06	2.3E+08	4.8E+07	1.7E+07
5	8.3E+07	4.6E+08	3.3E+06	1.9E+07	2.8E+06	1.3E+08	1.3E+07	2.8E+07	1.1E+08	1.9E+08	9.6E+07	1.2E+07
6	1.2E+08	4.9E+07	2.8E+06	2.2E+06	2.0E+06	1.4E+08	9.9E+06	5.7E+06	3.0E+08	1.4E+08	4.1E+06	5.1E+06
7	3.2E+07	3.3E+07	3.3E+06	4.8E+06	1.1E+07	9.4E+06	1.9E+07	1.3E+06	3.4E+08	4.9E+07	4.2E+07	1.5E+07
8	3.5E+07	6.4E+07	3.2E+05	4.7E+06	3.3E+07	9.7E+06	7.2E+06	2.2E+06	2.3E+08	7.0E+07	1.5E+08	2.1E+07
9	2.5E+07	8.2E+07	1.7E+05	4.3E+06	7.8E+05	1.0E+07	1.2E+07	6.7E+07	2.6E+08	1.0E+08	1.6E+08	3.6E+06
10	1.2E+07	8.4E+07	1.5E+06	4.7E+06	3.1E+06	5.4E+06	2.5E+06	1.7E+08	2.9E+08	4.7E+07	8.4E+07	8.2E+06
11	2.8E+07	8.0E+07	1.8E+06	5.3E+06	1.9E+06	9.4E+05	4.3E+07	1.1E+08	2.6E+08	6.2E+06	4.7E+07	9.8E+06
12	4.8E+07	8.0E+07	5.1E+06	1.9E+05	1.2E+06	5.6E+05	3.5E+07	1.6E+08	2.0E+08	1.2E+06	1.5E+06	8.5E+06
13	6.3E+07	1.0E+06	4.4E+06	2.1E+05	4.1E+05	2.1E+07	6.8E+07	3.8E+07	2.1E+07	8.6E+06	5.2E+06	4.0E+06
14	1.9E+07	1.2E+06	4.8E+06	3.1E+05	9.1E+05	8.2E+07	9.0E+07	3.1E+06	8.7E+04	2.3E+07	1.3E+07	5.7E+06
15	9.8E+06	2.0E+06	5.6E+06	6.3E+05	3.9E+05	4.0E+08	1.2E+08	2.1E+07	1.3E+05	2.7E+07	6.0E+06	9.4E+06
16	1.0E+07	3.1E+06	5.0E+05	1.1E+06	8.8E+05	1.7E+08	1.9E+08	7.9E+06	2.7E+05	1.2E+07	8.2E+06	1.5E+07
17	3.8E+05	3.7E+06	3.6E+05	1.4E+06	3.0E+07	1.6E+08	1.4E+08	1.4E+06	4.4E+05	1.6E+07	1.6E+07	5.4E+06
18	4.8E+05	2.6E+05	3.6E+05	6.8E+05	1.3E+08	1.4E+08	1.7E+08	8.9E+06	7.9E+05	1.5E+07	1.2E+07	5.8E+06
19	3.5E+05	4.1E+06	6.5E+05	5.9E+05	5.9E+08	1.3E+08	1.4E+08	1.3E+07	9.9E+05	1.0E+07	2.0E+07	5.1E+05
20	4.5E+06	2.8E+07	9.2E+05	7.1E+05	2.2E+08	1.2E+08	2.3E+08	2.6E+07	1.3E+06	6.1E+05	1.9E+07	6.2E+05
21	1.6E+07	5.1E+07	8.2E+05	2.1E+05	2.5E+08	5.7E+07	4.7E+07	2.3E+07	1.5E+06	1.0E+06	1.8E+06	3.9E+05
22	3.8E+07	5.4E+07	5.3E+05	1.1E+05	3.2E+08	6.6E+05	2.7E+06	1.1E+07	2.1E+06	1.0E+06	5.0E+05	1.2E+06
23	3.9E+07	1.1E+07	2.2E+05	3.1E+06	1.9E+07	1.4E+05	5.1E+07	1.1E+07	3.5E+06	3.5E+05	1.1E+06	2.0E+06
24	1.6E+07	2.3E+06	2.0E+05	7.5E+06	6.5E+06	2.2E+05	1.4E+08	1.3E+07	9.7E+04	5.4E+06	7.5E+05	2.0E+06
25	2.5E+07	2.9E+05	2.0E+05	2.2E+07	1.2E+07	4.6E+05	3.5E+08	1.2E+07	1.0E+05	1.0E+07	3.8E+07	4.6E+06
26	2.0E+07	2.1E+06	1.4E+05	4.0E+07	1.2E+07	5.0E+05	3.3E+08	4.7E+06	1.0E+05	5.5E+06	5.2E+07	7.0E+06
27	8.5E+06	3.4E+06	1.3E+05	3.9E+07	3.5E+07	3.7E+06	7.2E+07	1.0E+07	2.1E+05	2.3E+06	1.4E+08	7.5E+06
28	1.1E+07	3.5E+06	3.0E+05	2.3E+07	1.0E+08	9.9E+07	3.2E+07	4.9E+06	6.7E+05	7.4E+06	6.0E+07	4.7E+06
29	6.4E+06	8.0E+06	1.0E+07	9.8E+05	2.0E+08	1.6E+08	1.4E+07	3.0E+06	3.1E+05	1.4E+08	8.3E+07	5.9E+06
30	6.0E+07	4.7E+06	1.8E+07	7.5E+05	8.2E+07	5.4E+07	2.3E+07	3.4E+06	4.4E+05	3.1E+08		1.8E+06
31		1.1E+06		3.1E+05	5.4E+07		2.9E+07		2.8E+06	1.4E+08		1.8E+05

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.

CONTENTS

Prompt Reports Number 668 Part I

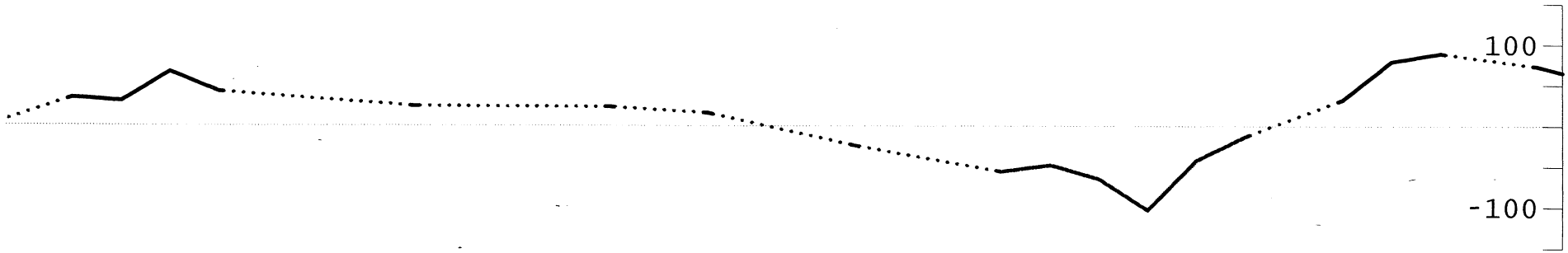
DATA FOR **FEBRUARY 2000**

SOLAR MAGNETIC FIELD SYNOPTIC CHART

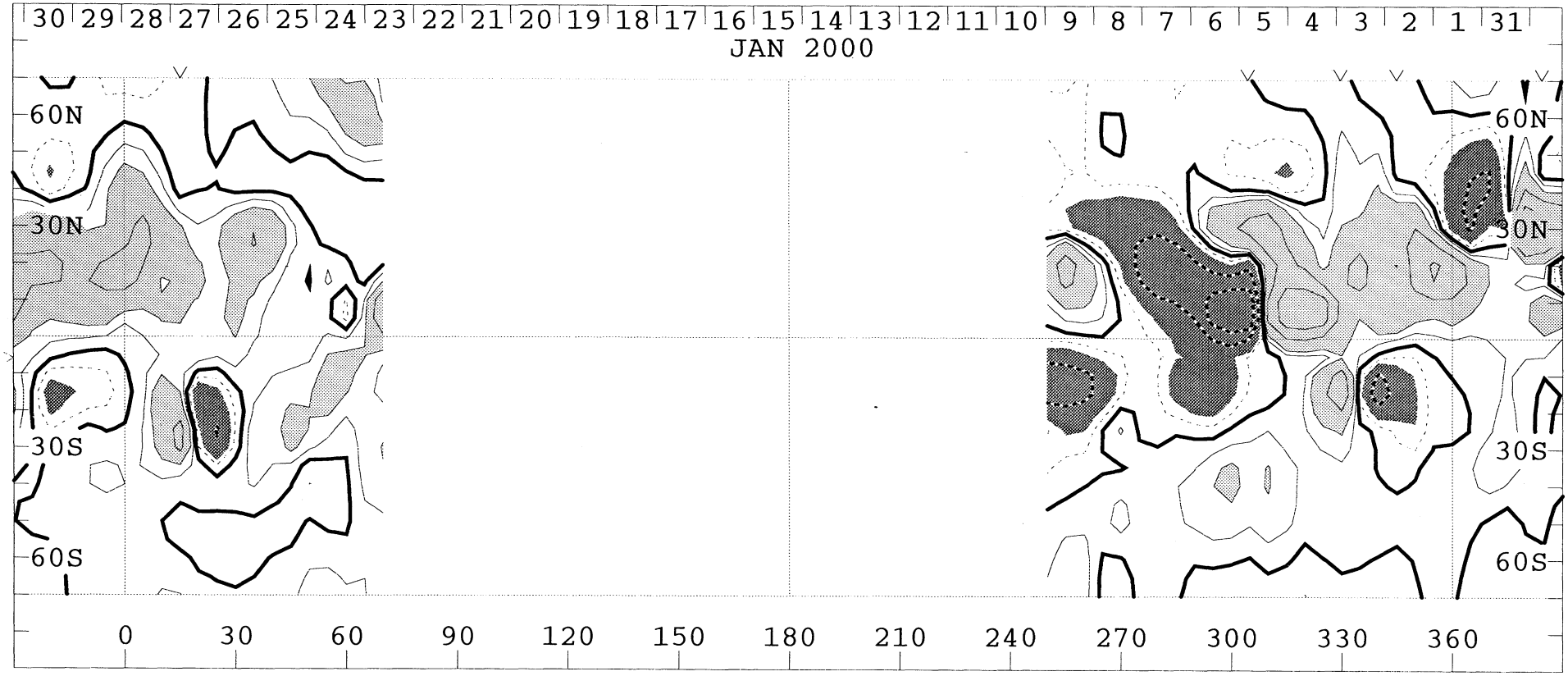
CARRINGTON ROTATION NUMBER 1958

(1 to 28 January 2000)

WILCOX SOLAR OBSERVATORY



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



1958

SOLAR MAGNETIC FIELD SYNOPTIC CHART

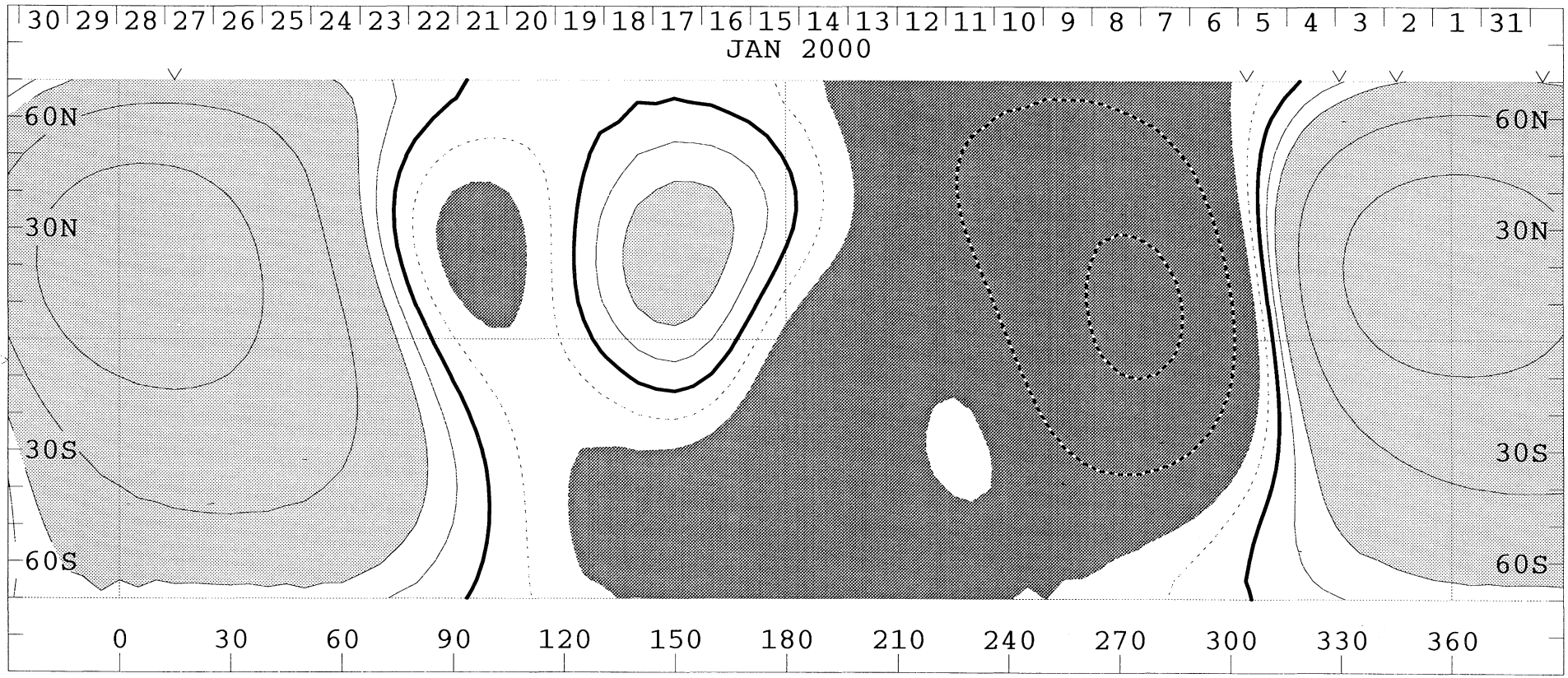
SOURCE SURFACE FIELD

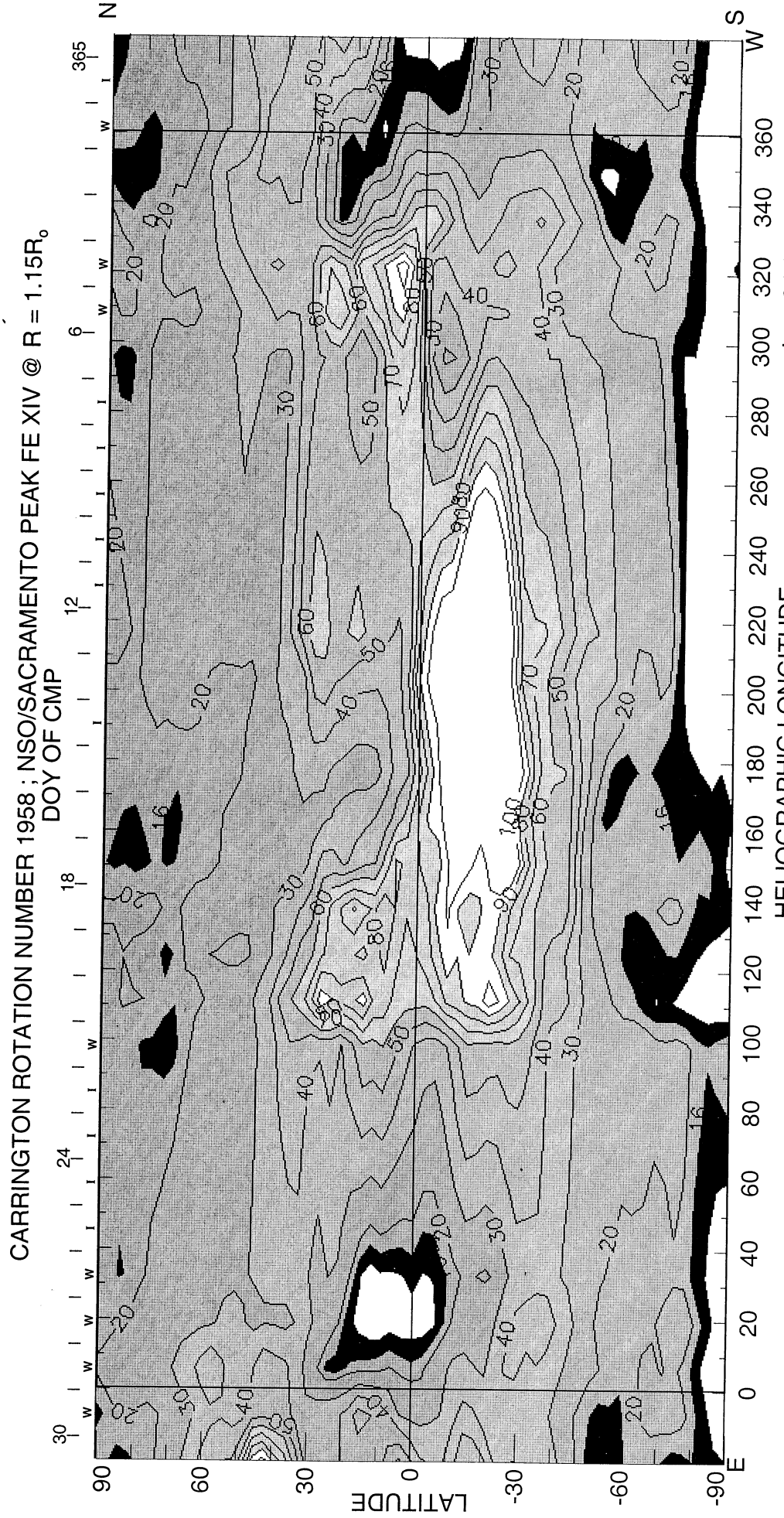
CARRINGTON ROTATION NUMBER 1958

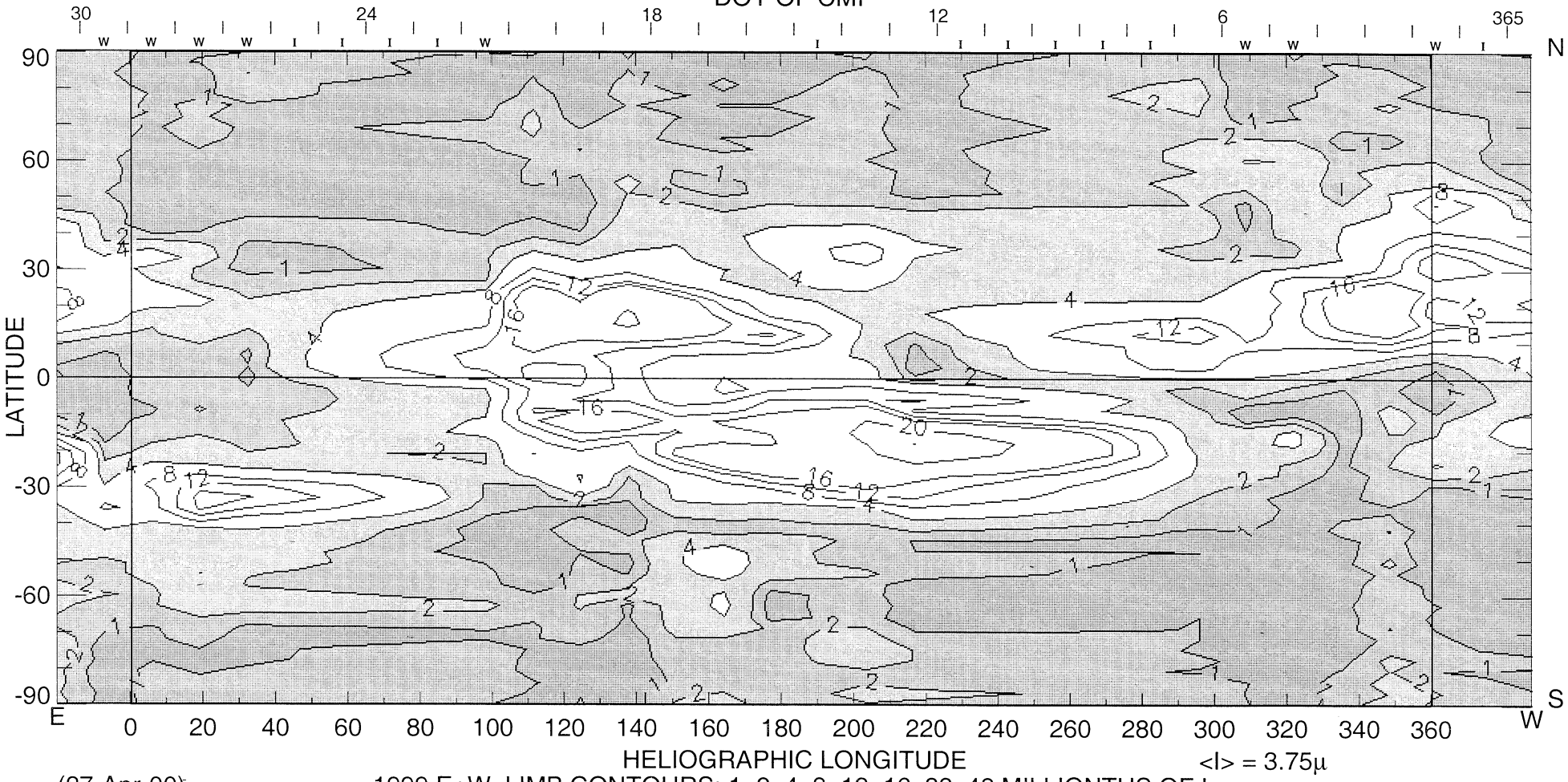
(1 to 28 January 2000)

Wilcox Solar Observatory

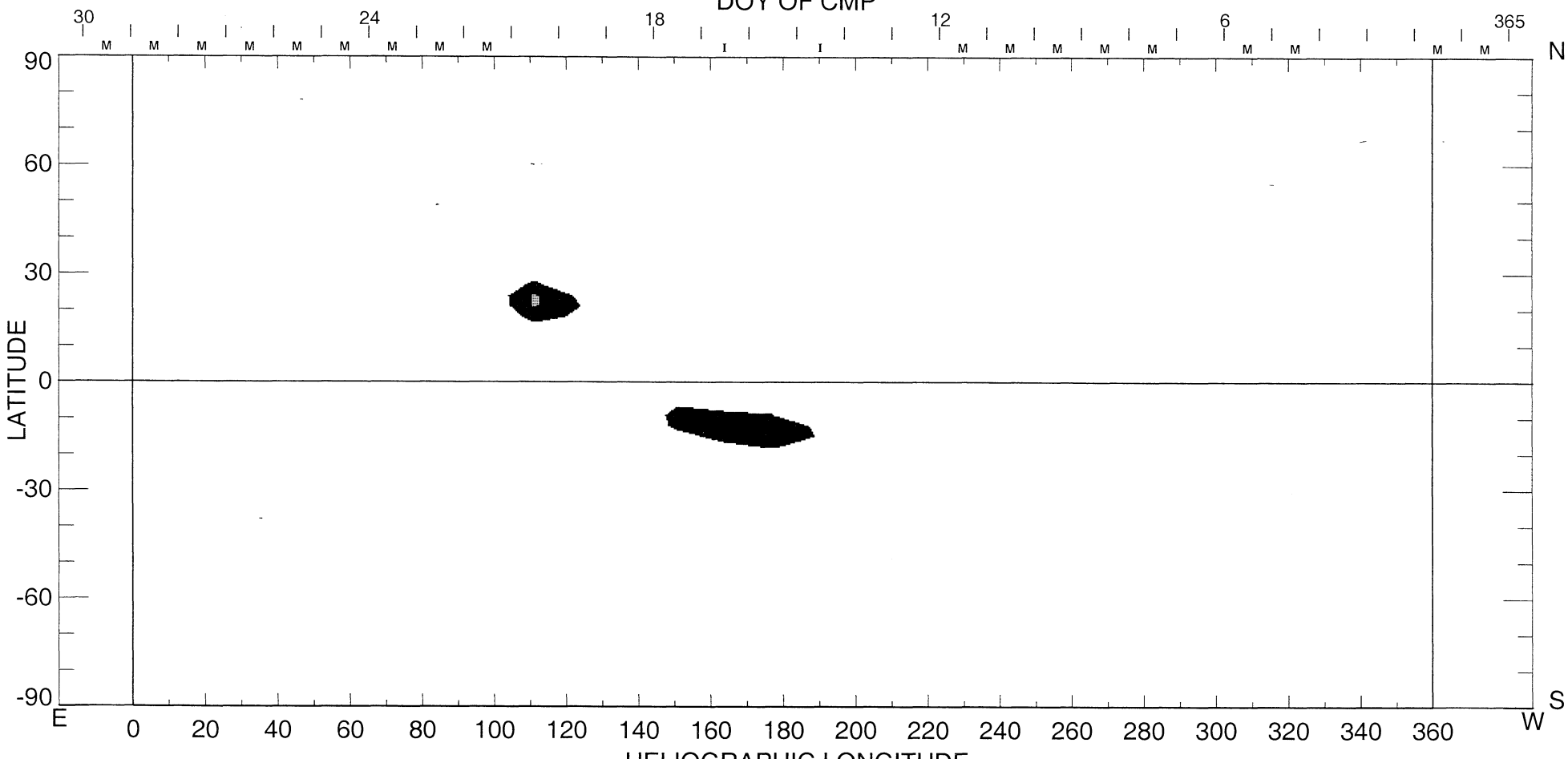
0, ±1, 2, 5, 10, 20 microTesla




CARRINGTON ROTATION NUMBER 1958 ; NSO/SACRAMENTO PEAK FE XIV @ R = 1.15R$_o$
DOY OF CMP
LATITUDE
HELIOGRAPHIC LONGITUDE
N
S
E
W
90
60
30
0
-30
-60
-90
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360
1999 E+W LIMB CONTOURS: 12, 16, 20, 30, 40, 50, 60, 70, 80, 90, 100 MILLIONTHS OF I$_o$
<I> = 34.97μ
CORONAL HOLES ARE SHOWN AS WHITE BORDERED BY BLACK
(27-Apr-00)


CARRINGTON ROTATION NUMBER 1958 ; NSO/SACRAMENTO PEAK FE X @ R = 1.15R$_o$
DOY OF CMP
30
24
18
12
6
365
90
60
30
0
-30
-60
-90
LATITUDE
N
S
E
W
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360
HELIOGRAPHIC LONGITUDE
<I> = 3.75μ
(27-Apr-00)
1999 E+W LIMB CONTOURS: 1, 2, 4, 8, 12, 16, 32, 48 MILLIONTHS OF I$_o$

CARRINGTON ROTATION NUMBER 1958 ; NSO/SACRAMENTO PEAK CA XV @ R = 1.15R_o



(26-Apr-00) 1999 E LIMB CONTOURS: 1, 2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20 MILLIONTHS OF I_o

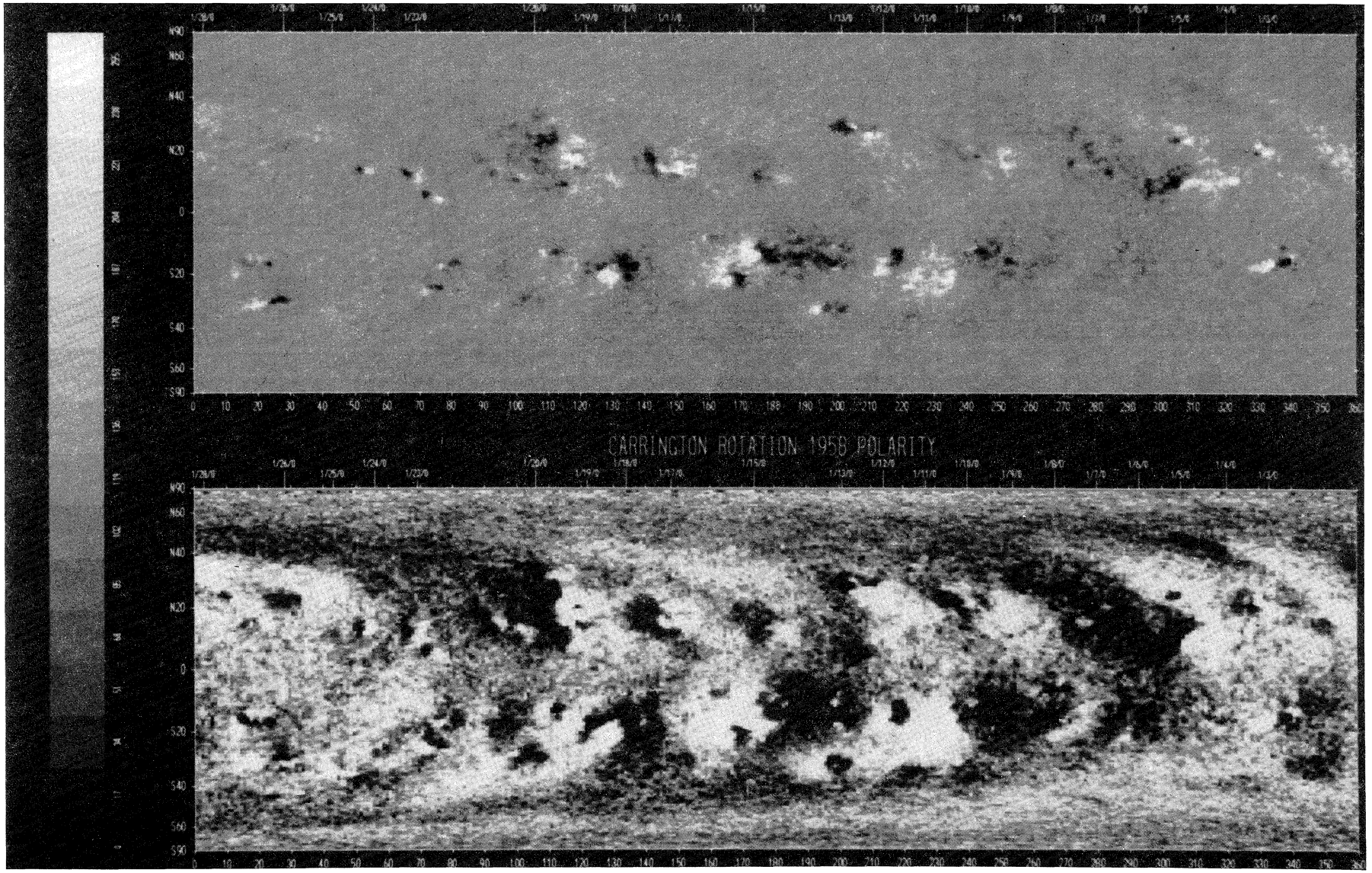
SOLAR MAGNETIC FIELD SYNOPTIC CHART

CARRINGTON ROTATION NUMBER 1958

(1 to 28 January 2000)

National Solar Observatory/Kitt Peak

Dates of Observation



Heliographic Longitude

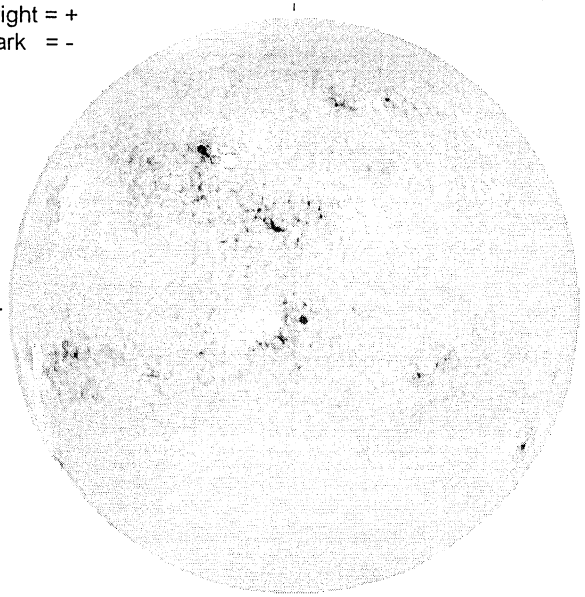
FEBRUARY 1, 2000 (P= -11.90, Bo = -5.98, Lo = 319.81)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -

E--



1906 UT

STANFORD MAGNETOGRAM

N

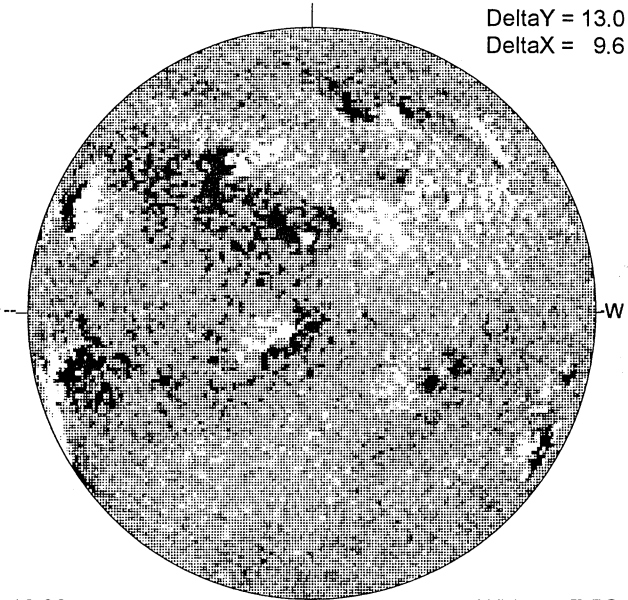
Solid = +
Dashed = -

1834 UT

MT. WILSON MAGNETOGRAM

N

DeltaY = 13.0
DeltaX = 9.6

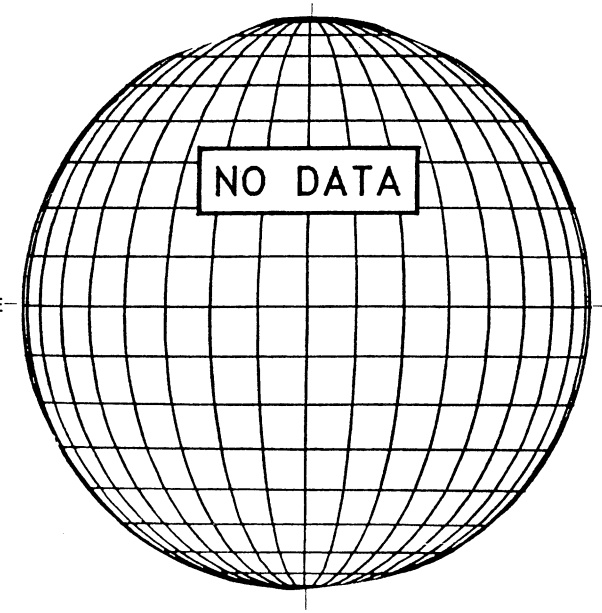


-W

18.20 -
19.18 UT

White= +7.5G
Black = -7.5G

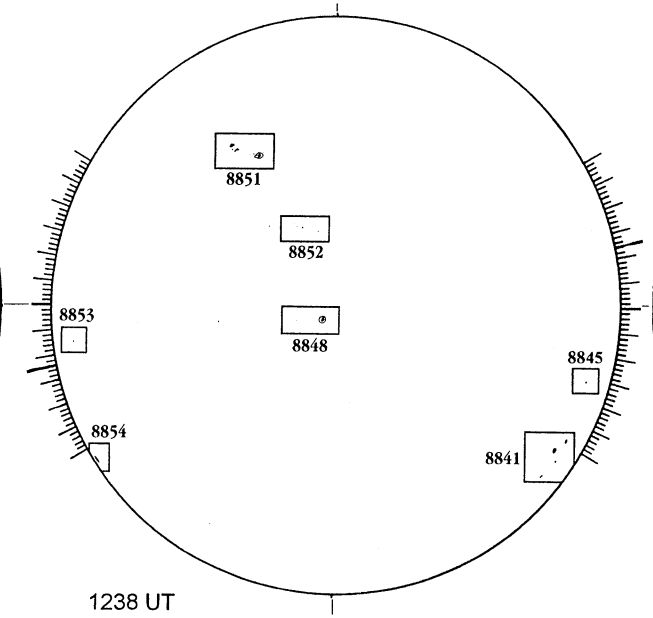
----- MEUDON H-ALPHA



E-

S

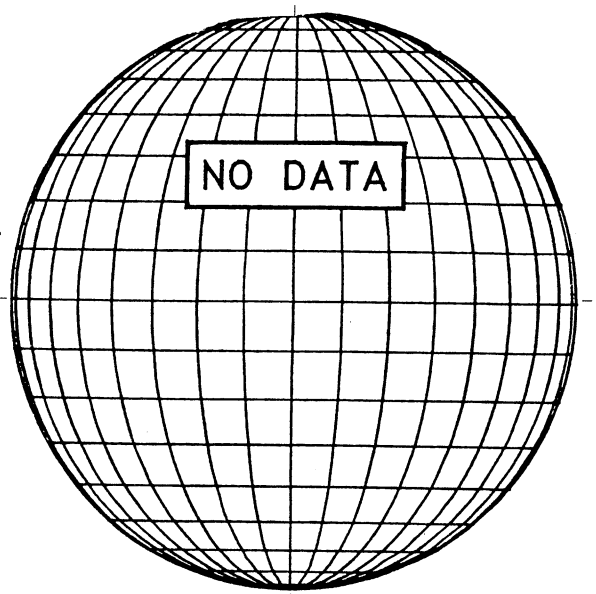
RAMEY SUNSPOT



1238 UT

S

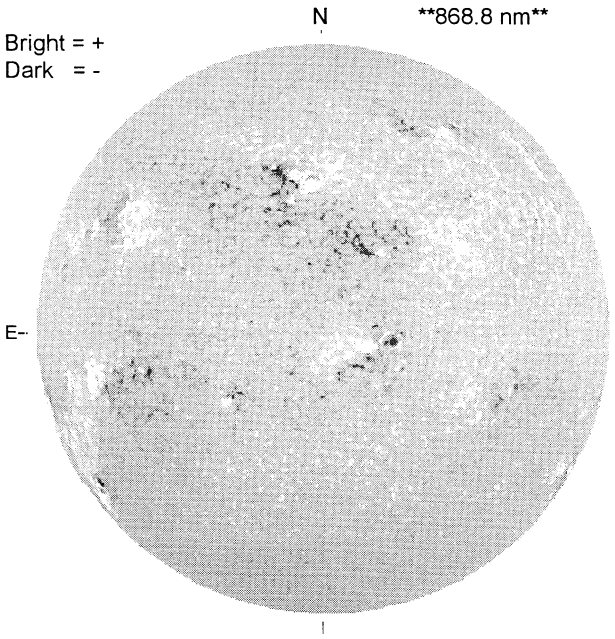
LOMNICKY PEAK CORONA (1.04 Radii)----



S

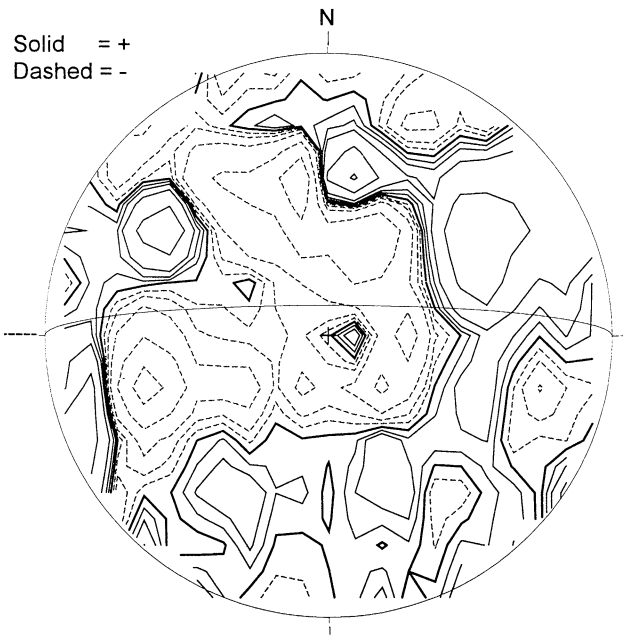
FEBRUARY 2, 2000 (P= -12.31, Bo = -6.05, Lo = 306.65)

KITT PEAK MAGNETOGRAM



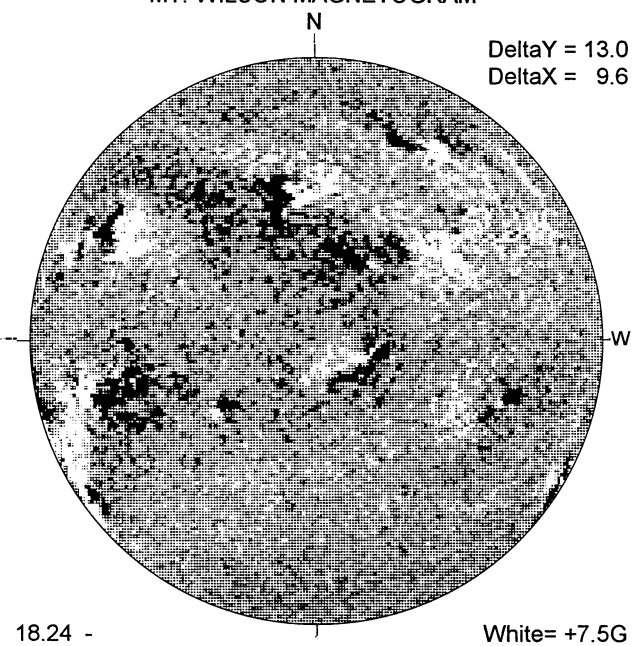
1808 UT

STANFORD MAGNETOGRAM



2146 UT

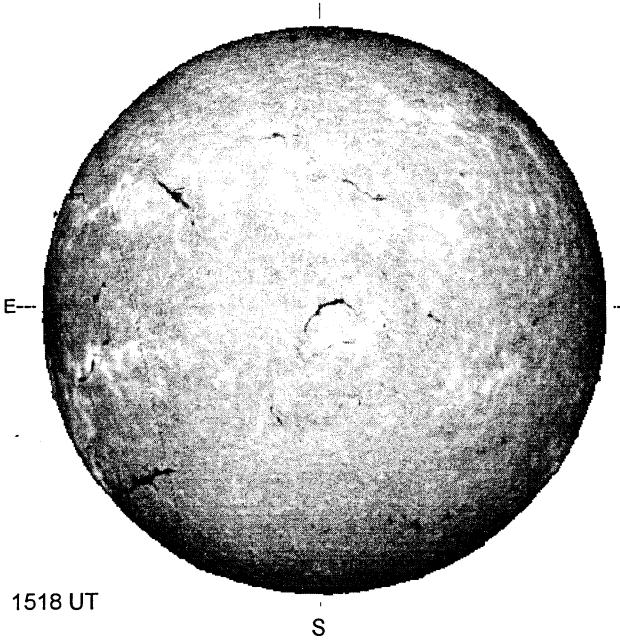
MT. WILSON MAGNETOGRAM



18.24 -
19.22 UT

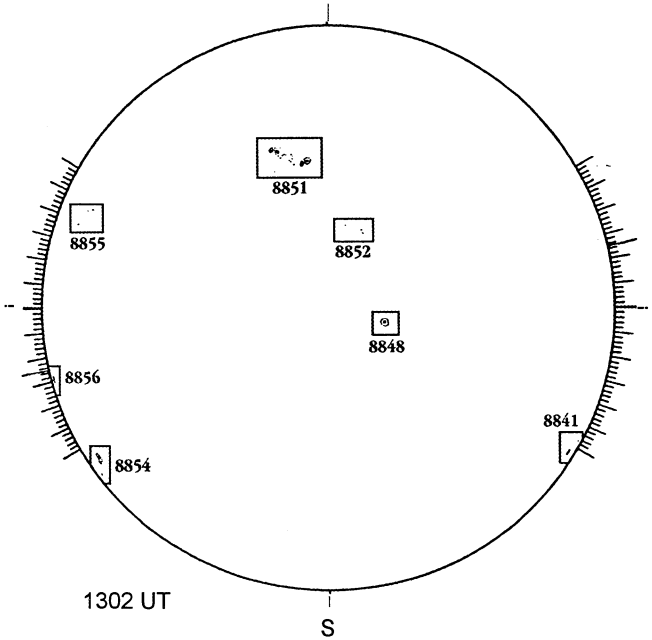
White= +7.5G
Black = -7.5G

MEUDON H-ALPHA



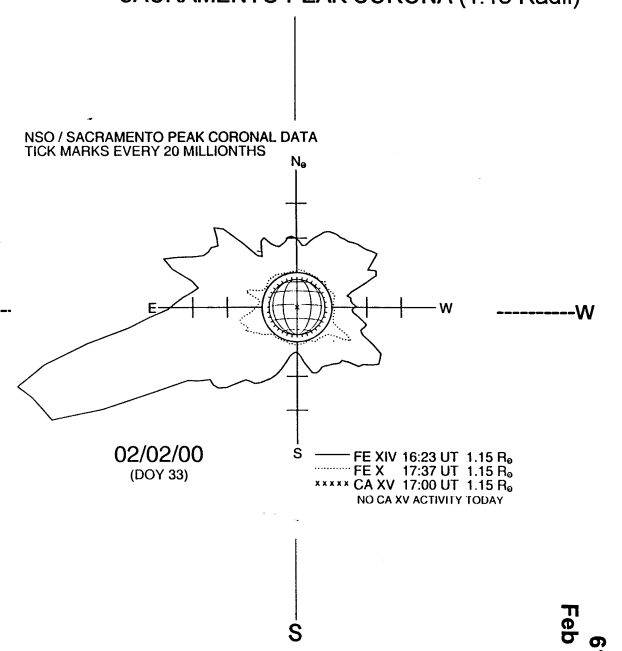
1518 UT

RAMEY SUNSPOT



1302 UT

SACRAMENTO PEAK CORONA (1.15 Radii)----

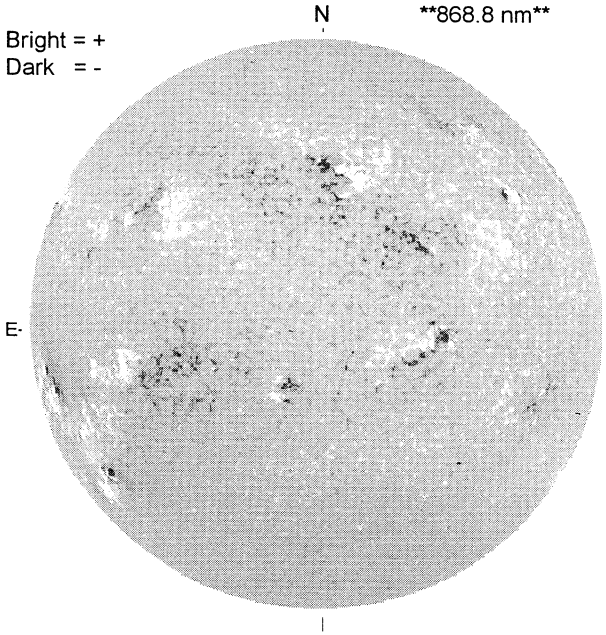


02/02/00
(DOY 33)

61
Feb 0

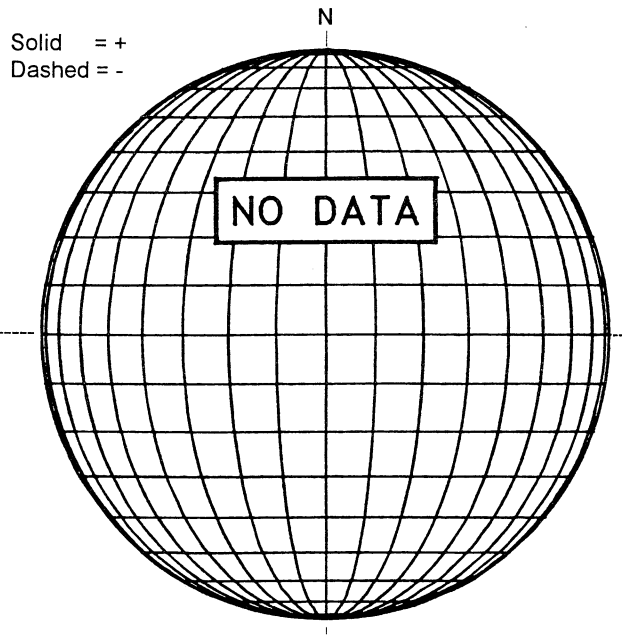
FEBRUARY 3, 2000 (P= -12.71, Bo = -6.12, Lo = 293.48)

KITT PEAK MAGNETOGRAM

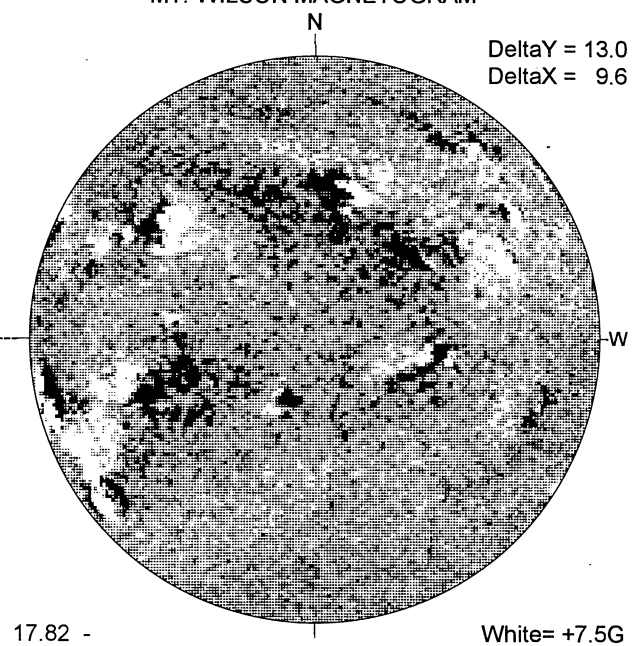


1701 UT

STANFORD MAGNETOGRAM



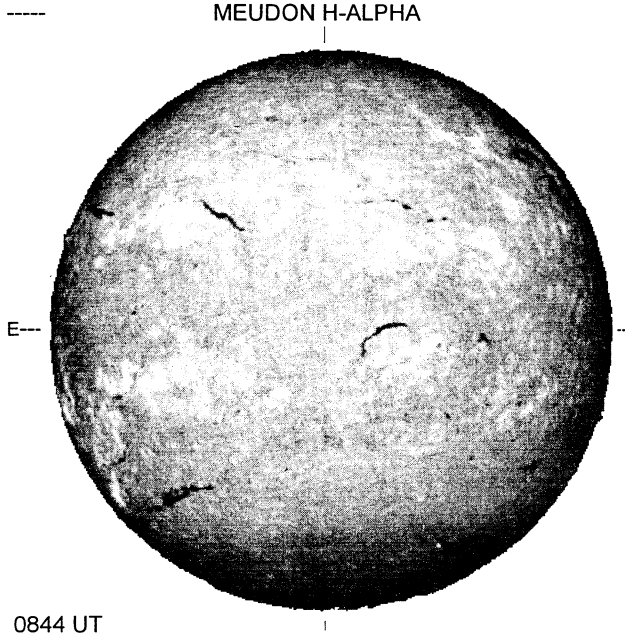
MT. WILSON MAGNETOGRAM



17.82 -
18.79 UT

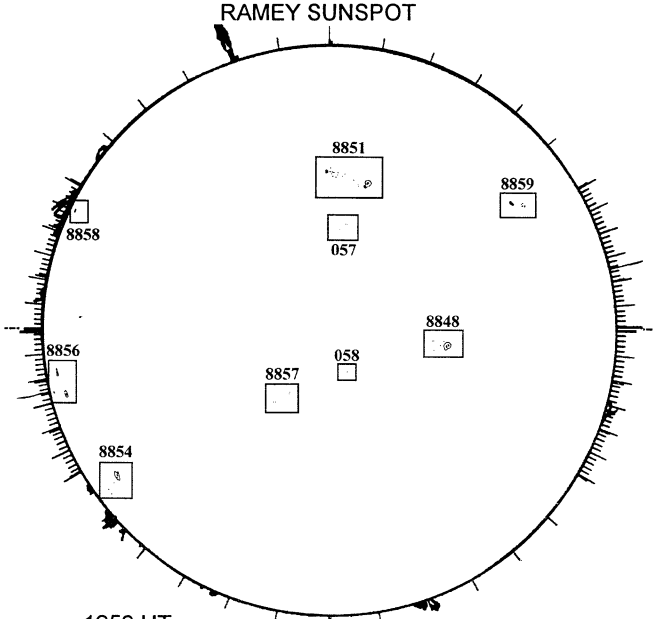
White= +7.5G
Black = -7.5G

MEUDON H-ALPHA



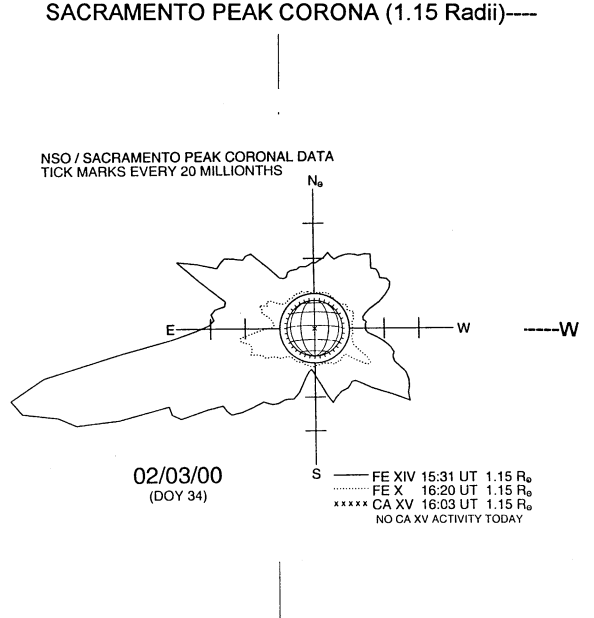
0844 UT

RAMEY SUNSPOT



1259 UT
1140 UT VALA Prom

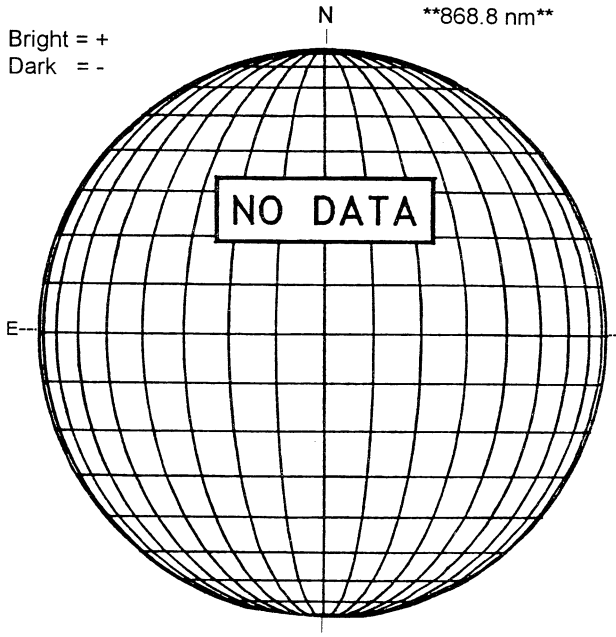
SACRAMENTO PEAK CORONA (1.15 Radii)----



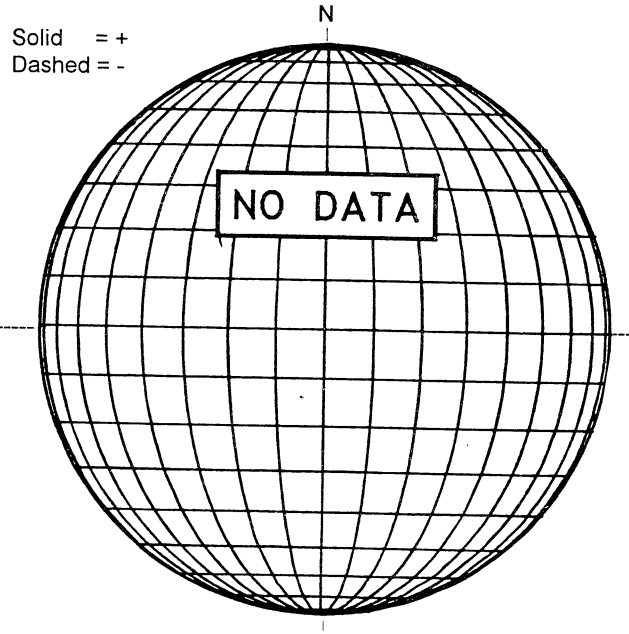
S

FEBRUARY 4, 2000 (P= -13.11, Bo = -6.19, Lo = 280.31)

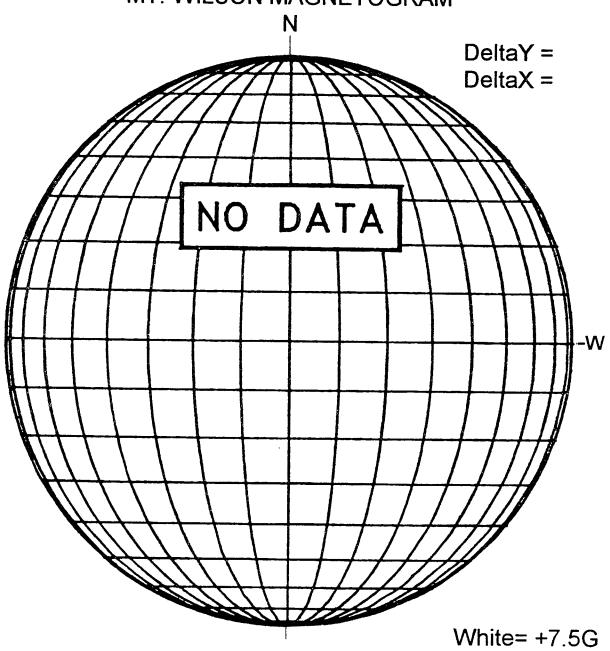
KITT PEAK MAGNETOGRAM



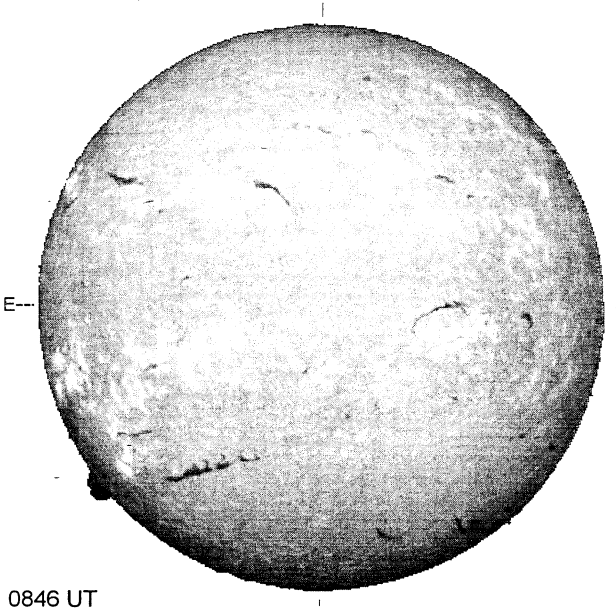
STANFORD MAGNETOGRAM



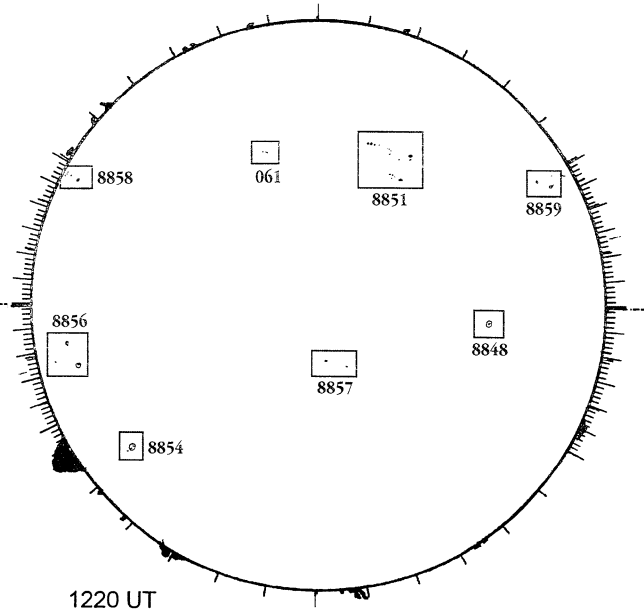
MT. WILSON MAGNETOGRAM



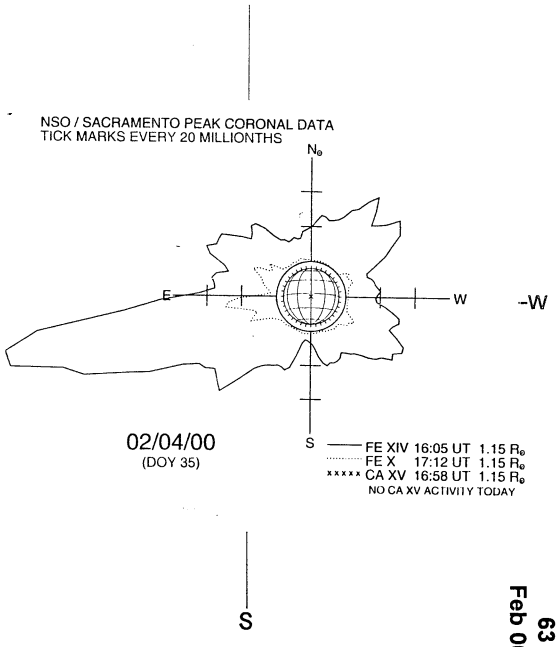
MEUDON H-ALPHA



RAMEY SUNSPOT

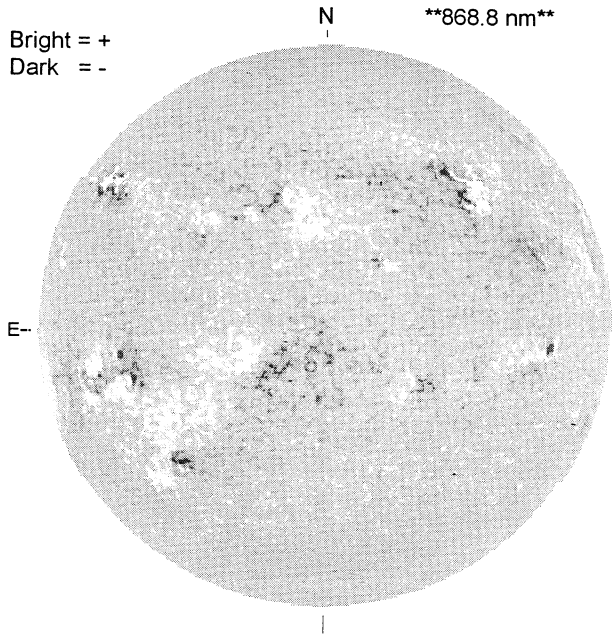


SACRAMENTO PEAK CORONA (1.15 Radii)----

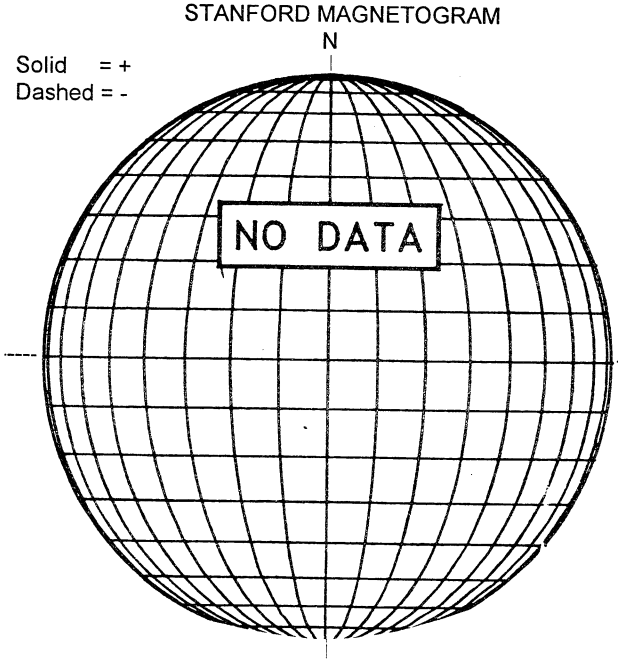


FEBRUARY 5, 2000 (P= -13.51, Bo = -6.26, Lo = 267.15)

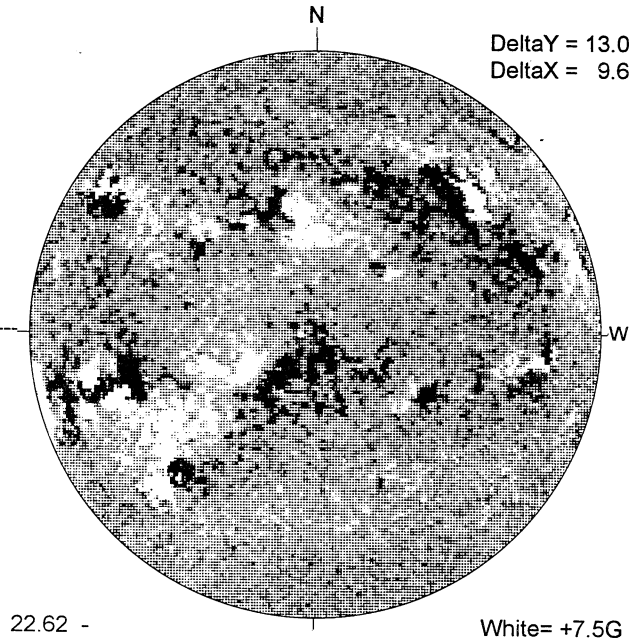
KITT PEAK MAGNETOGRAM



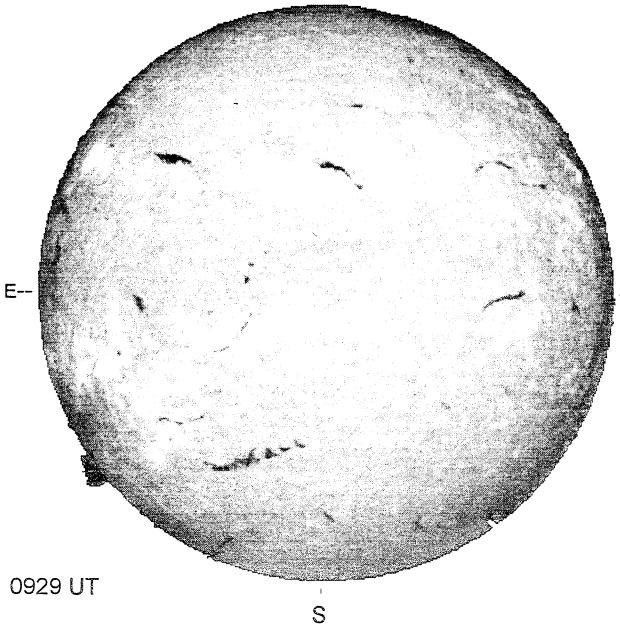
STANFORD MAGNETOGRAM



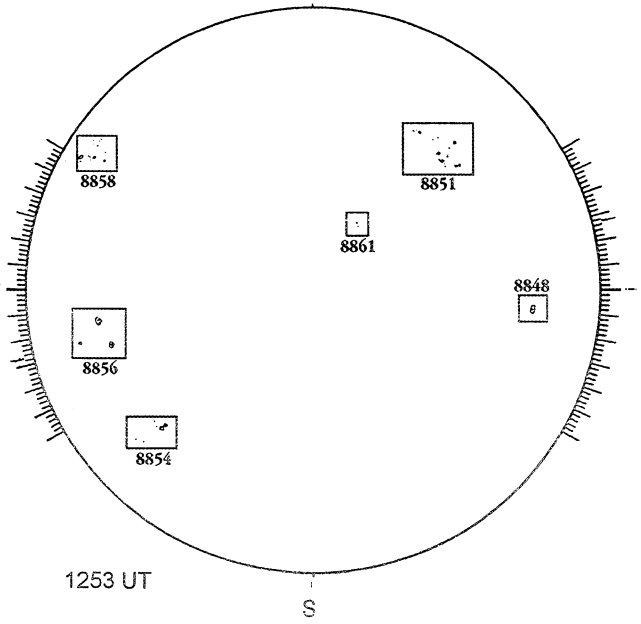
MT. WILSON MAGNETOGRAM



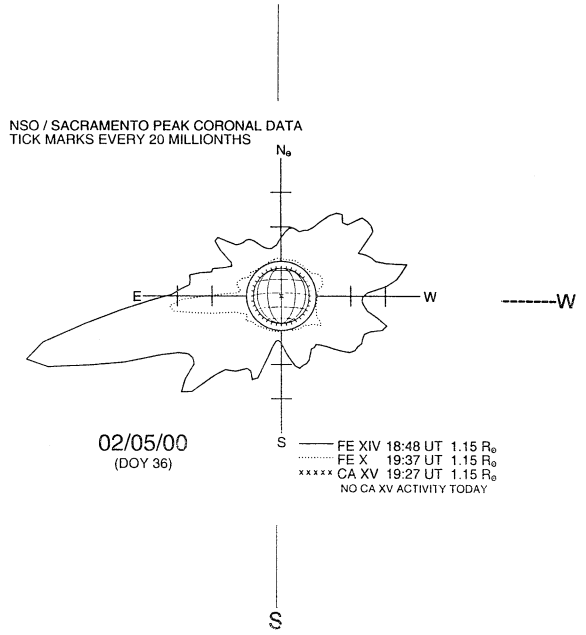
MEUDON H-ALPHA



RAMEY SUNSPOT

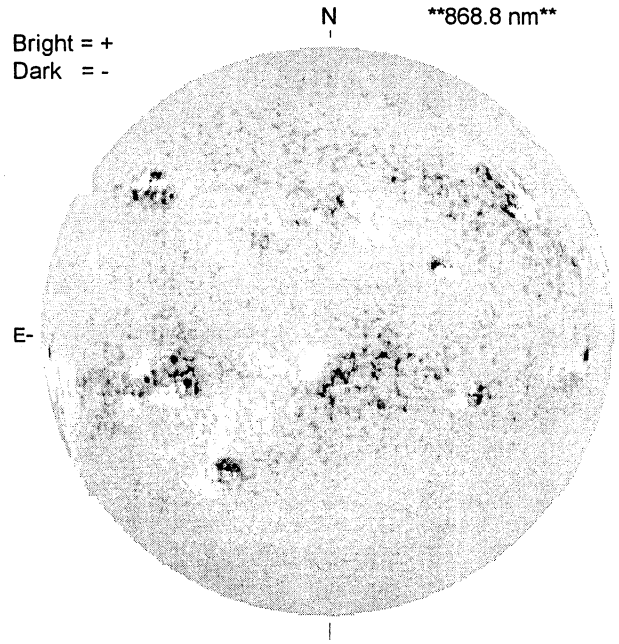


SACRAMENTO PEAK CORONA (1.15 Radii)----



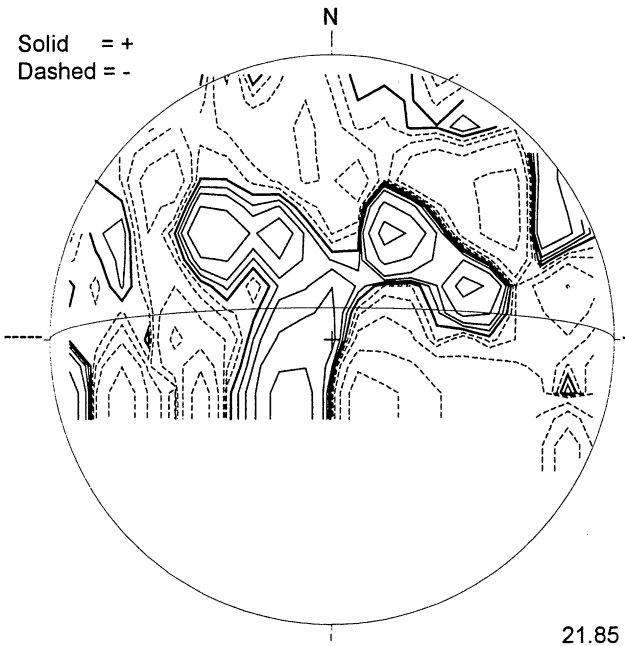
FEBRUARY 6, 2000 (P= -13.90, Bo = -6.32, Lo = 253.98)

KITT PEAK MAGNETOGRAM



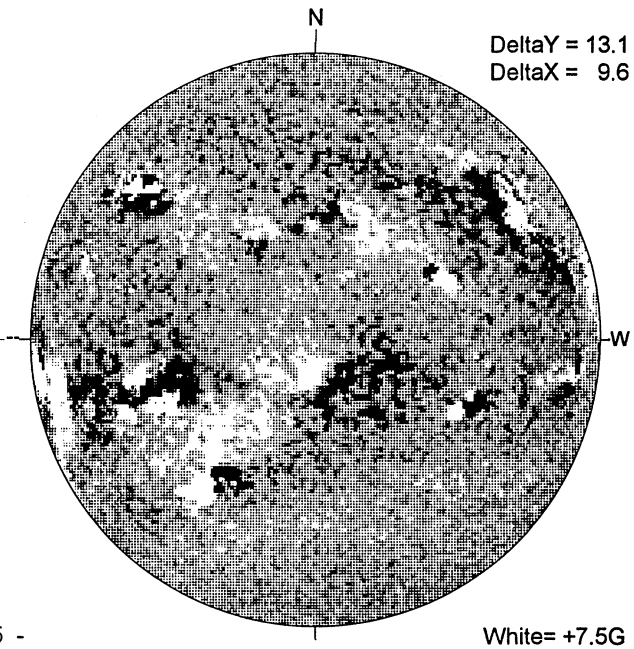
1731 UT

STANFORD MAGNETOGRAM



2210 UT

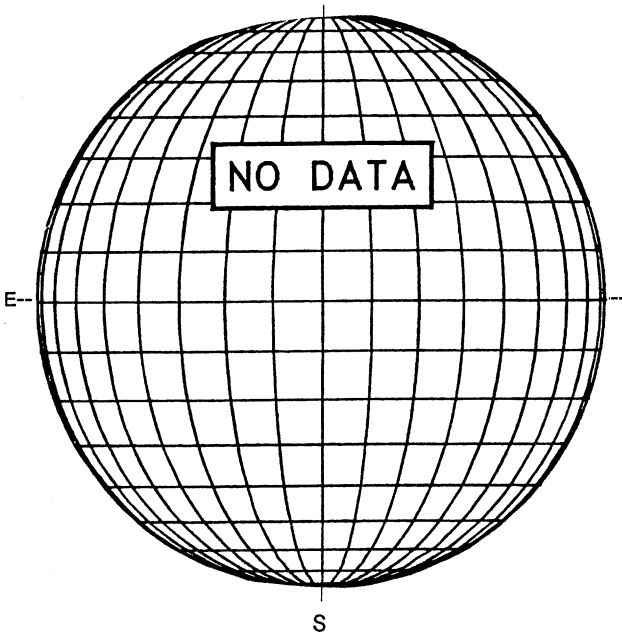
MT. WILSON MAGNETOGRAM



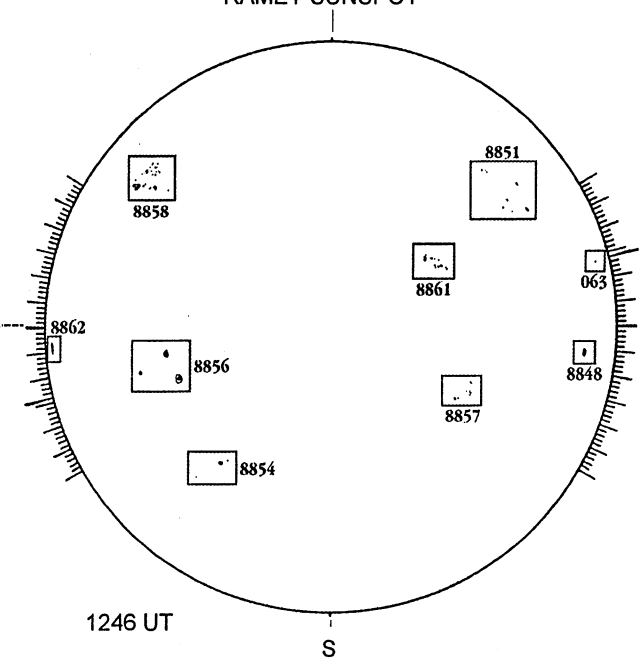
21.85 -
22.83 UT

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

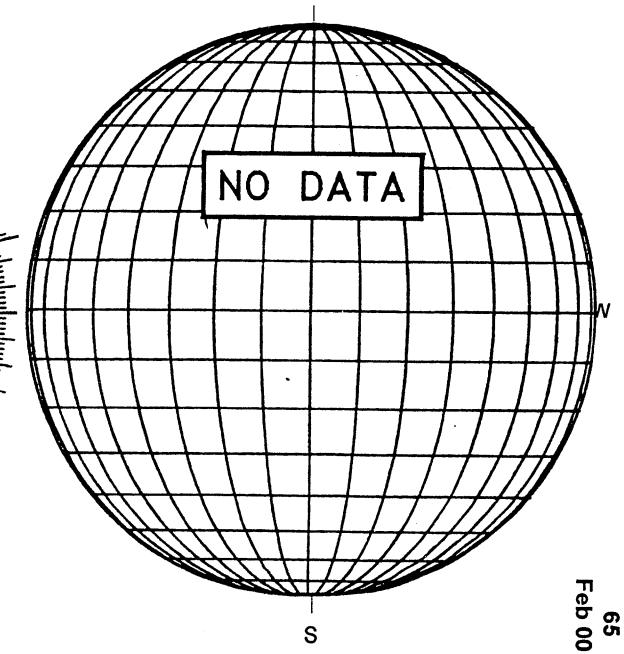


RAMEY SUNSPOT



1246 UT

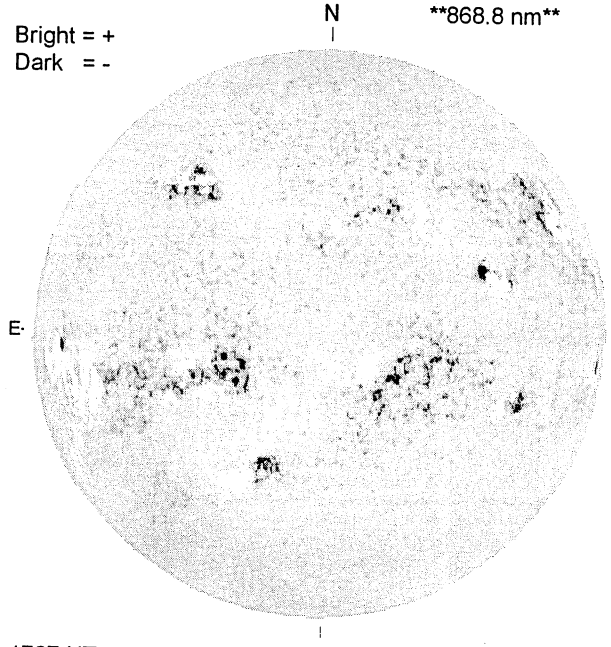
SACRAMENTO PEAK CORONA (1.15 Radii)----



65
Feb 00

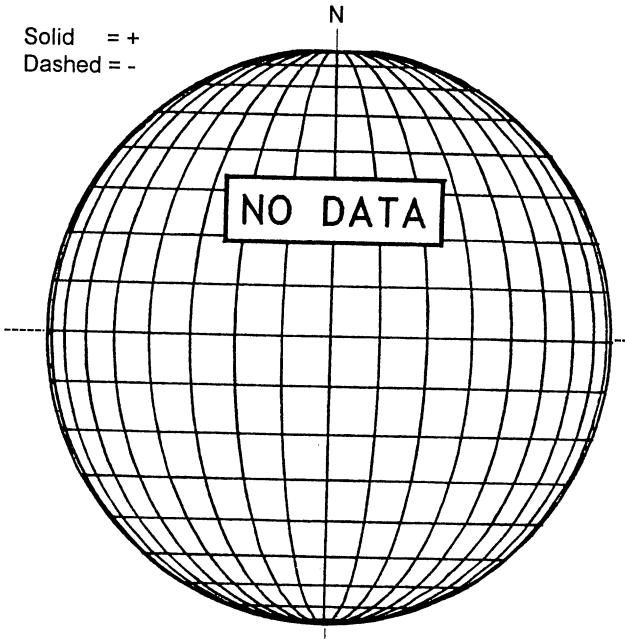
FEBRUARY 7, 2000 (P= -14.28, Bo = -6.38, Lo = 240.82)

KITT PEAK MAGNETOGRAM

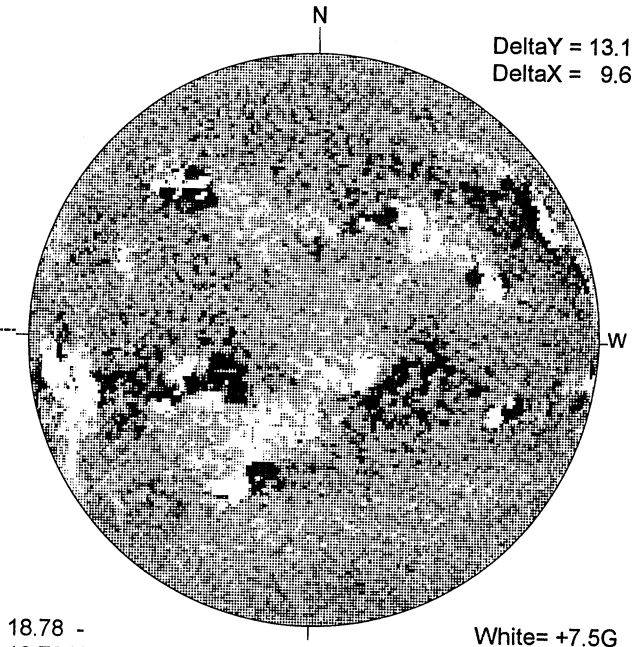


1727 UT

STANFORD MAGNETOGRAM



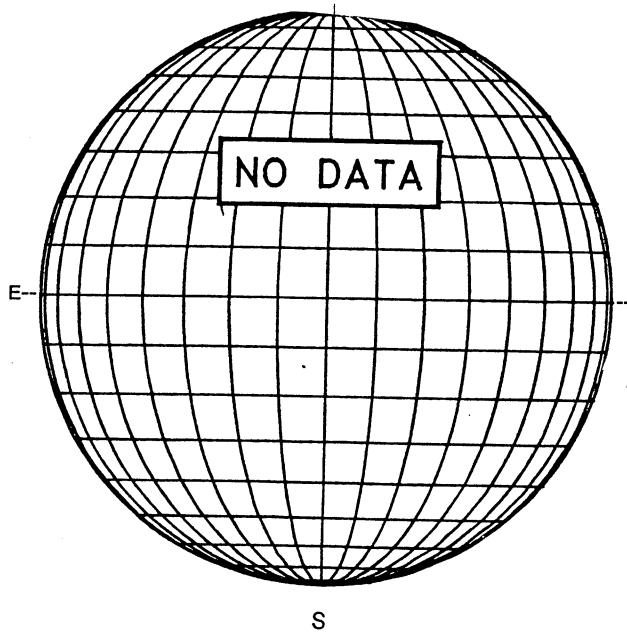
MT. WILSON MAGNETOGRAM



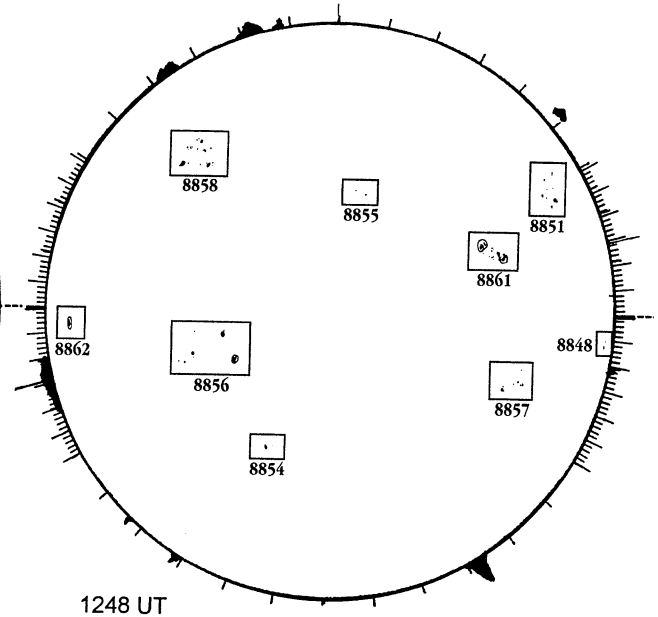
18.78 -
19.76 UT

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

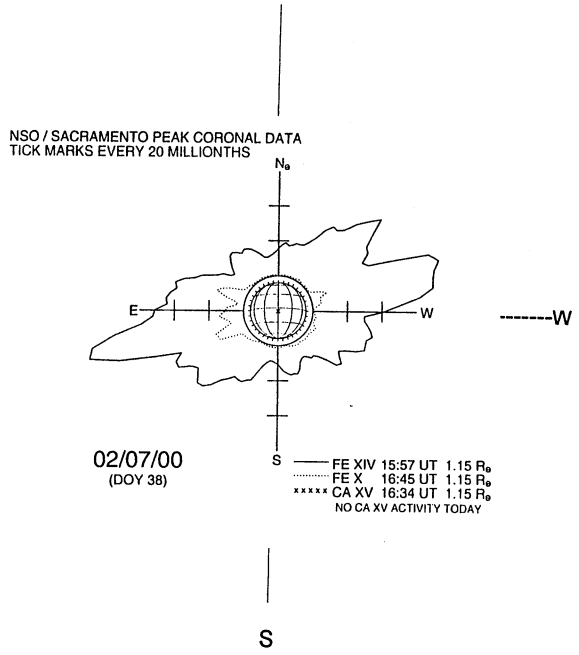


RAMEY SUNSPOT



1248 UT
0800 UT LOMN Prom S

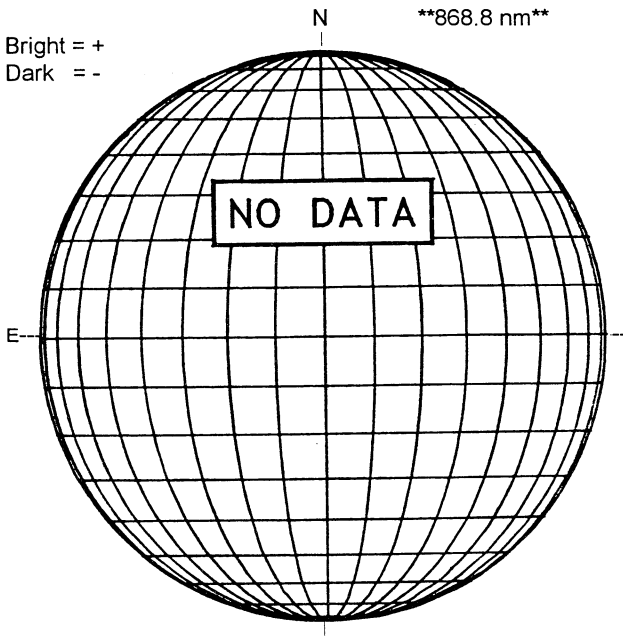
SACRAMENTO PEAK CORONA (1.15 Radii)----



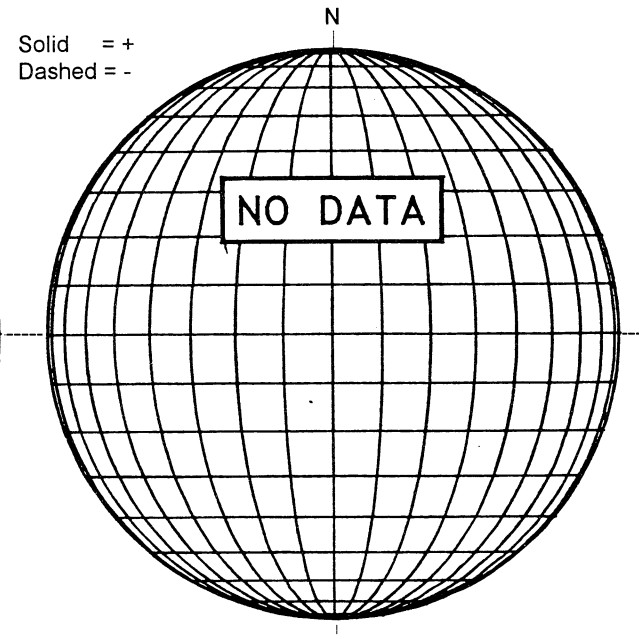
S

FEBRUARY 8, 2000 (P= -14.66, Bo = -6.44, Lo = 227.65)

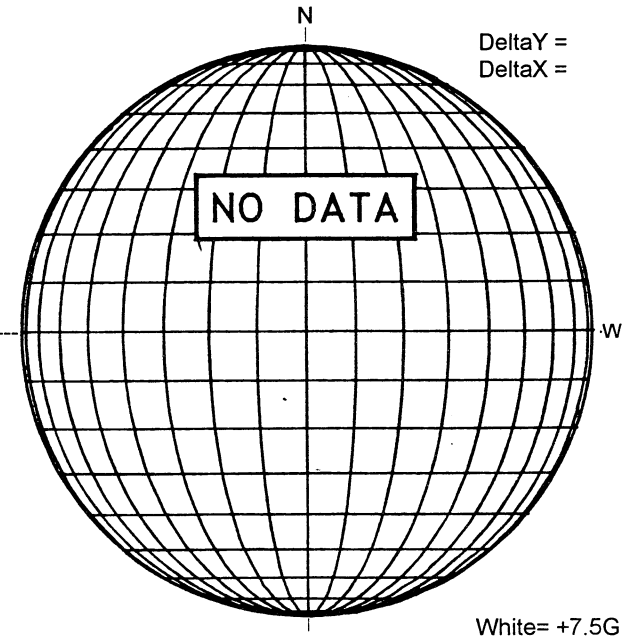
KITT PEAK MAGNETOGRAM



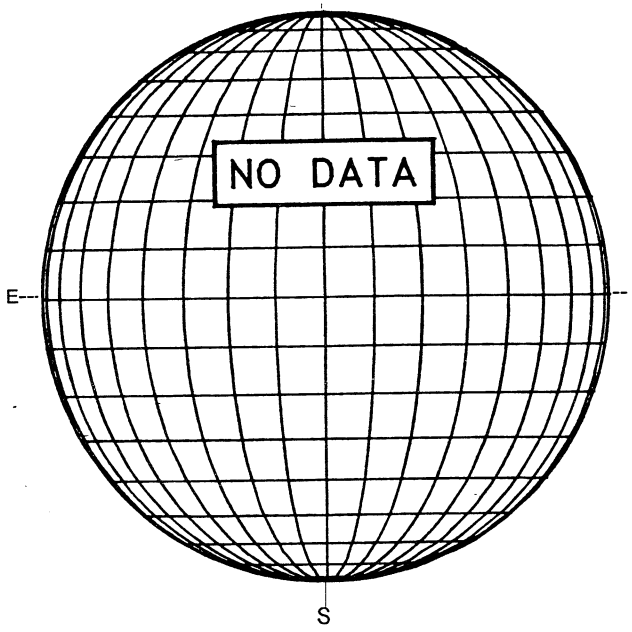
STANFORD MAGNETOGRAM



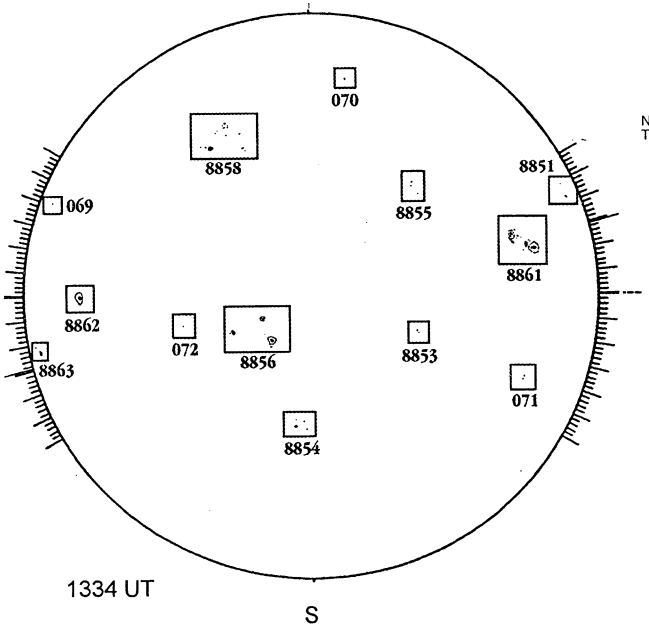
MT. WILSON MAGNETOGRAM



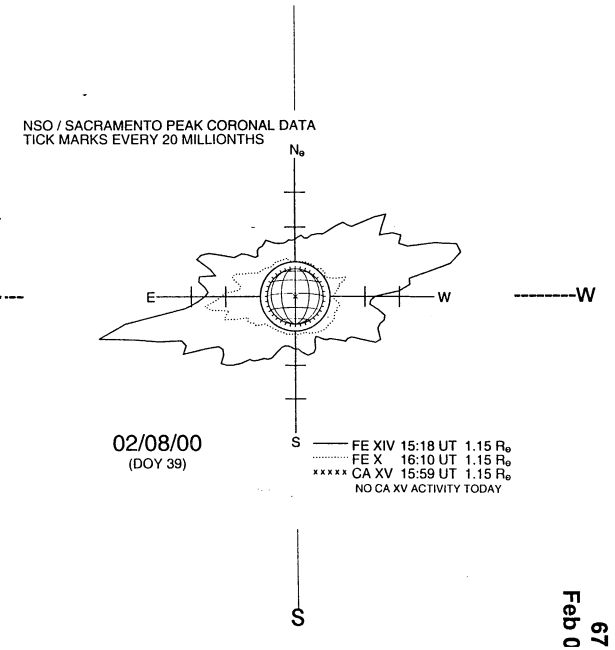
MEUDON H-ALPHA



RAMEY SUNSPOT



SACRAMENTO PEAK CORONA (1.15 Radii)----

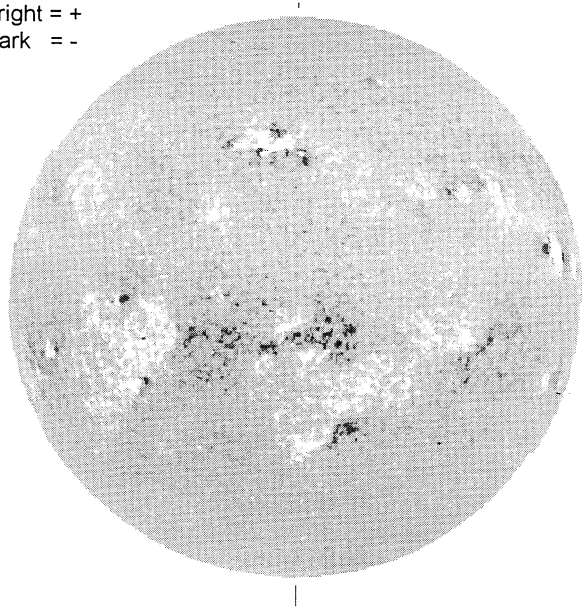


FEBRUARY 9, 2000 (P= -15.04, Bo = -6.50, Lo = 214.48)

KITT PEAK MAGNETOGRAM

N **868.8 nm

Bright = +
Dark = -



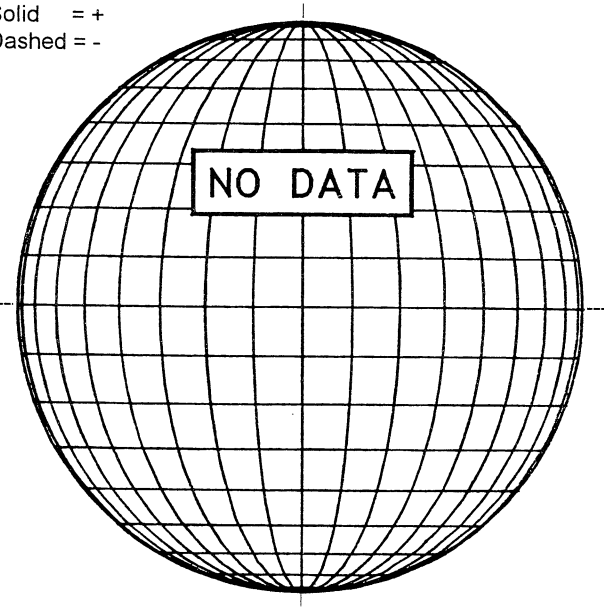
E-

1753 UT

STANFORD MAGNETOGRAM

N

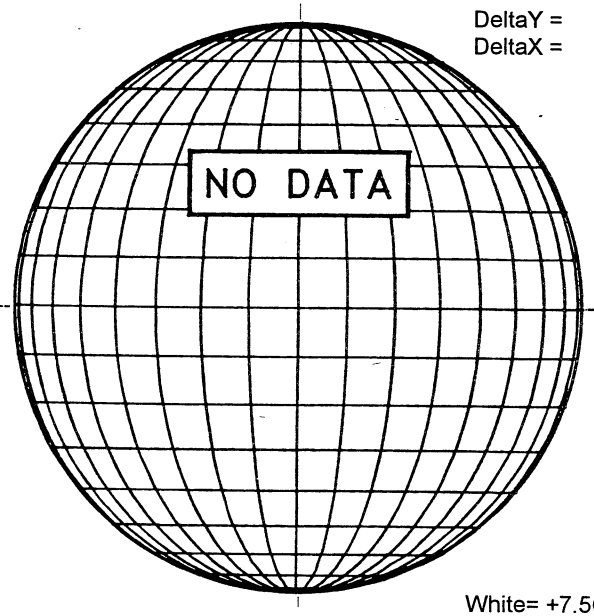
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

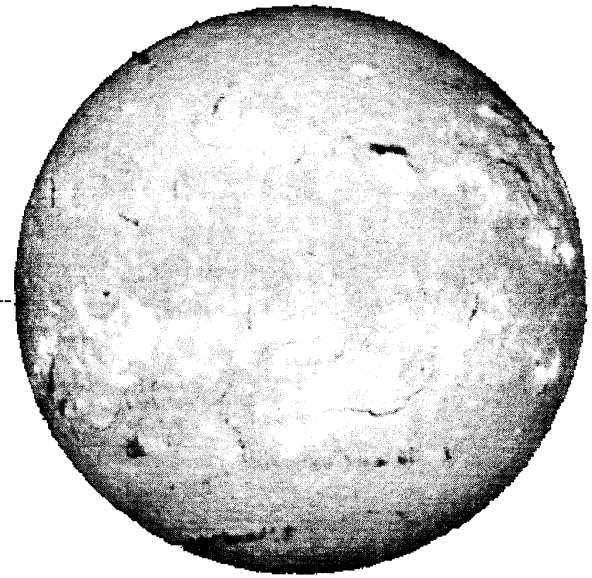
DeltaY =
DeltaX =



W

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

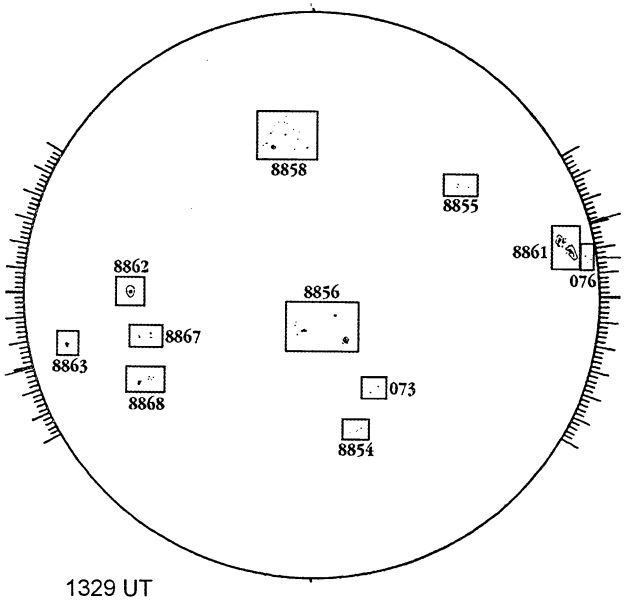


E--

0858 UT

S

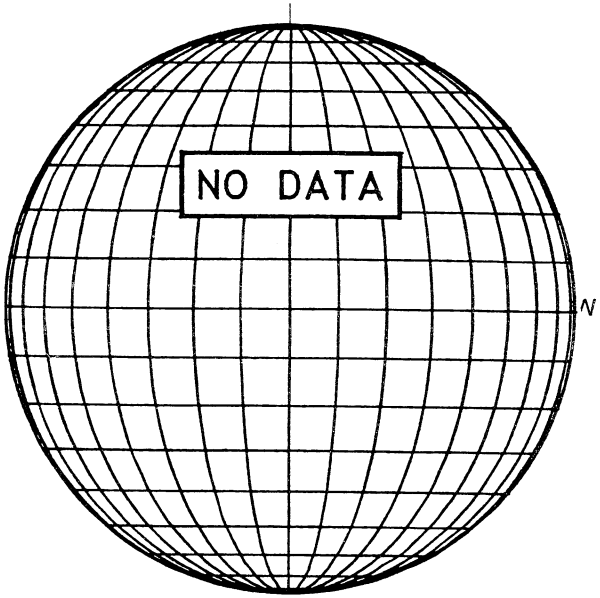
RAMEY SUNSPOT



1329 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)----



W

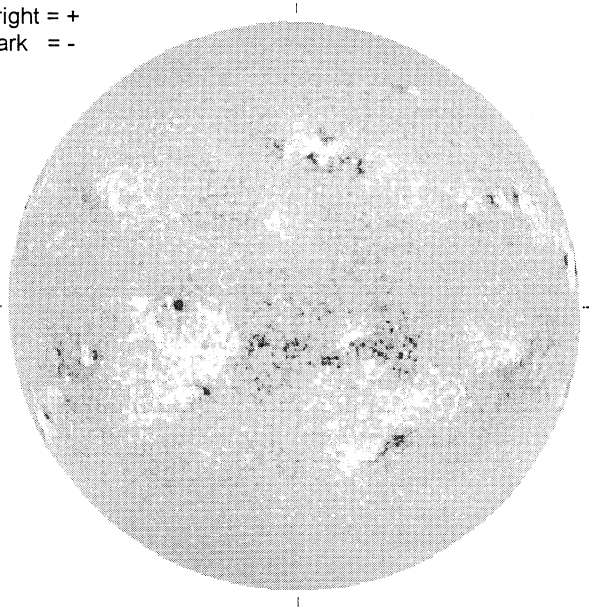
S

FEBRUARY 10, 2000 (P= -15.41, Bo = -6.56, Lo = 201.32)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -



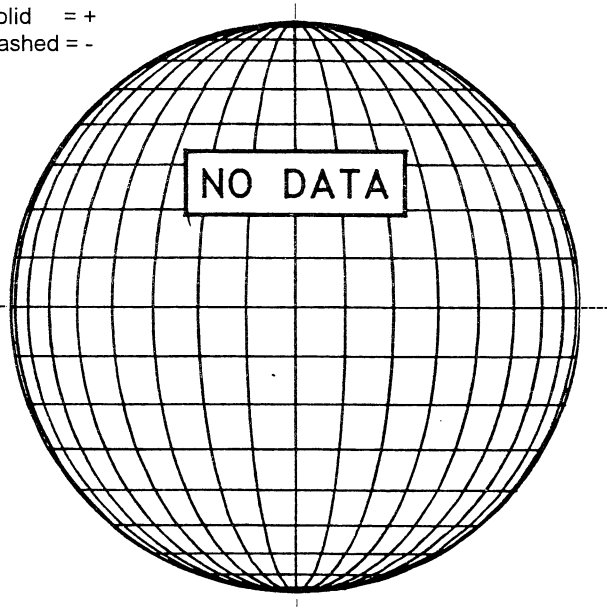
E-

1728 UT

STANFORD MAGNETOGRAM

N

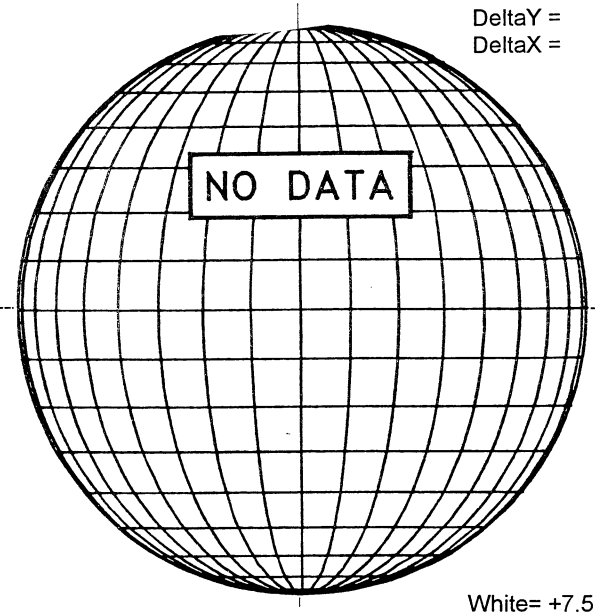
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

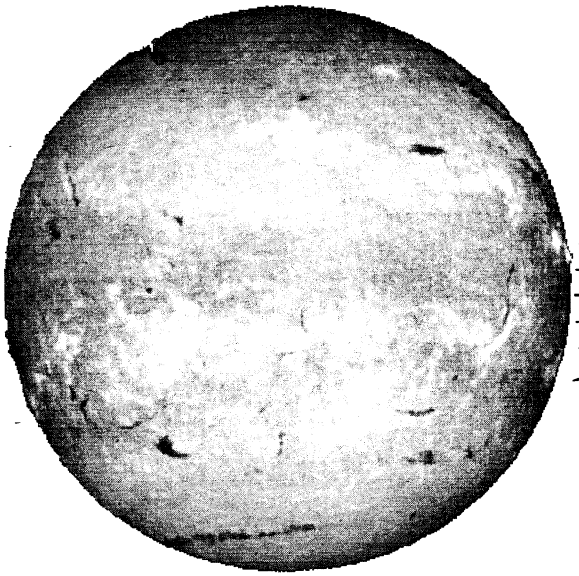
DeltaY =
DeltaX =



-W

White= +7.5G
Black = -7.5G

----- MEUDON H-ALPHA

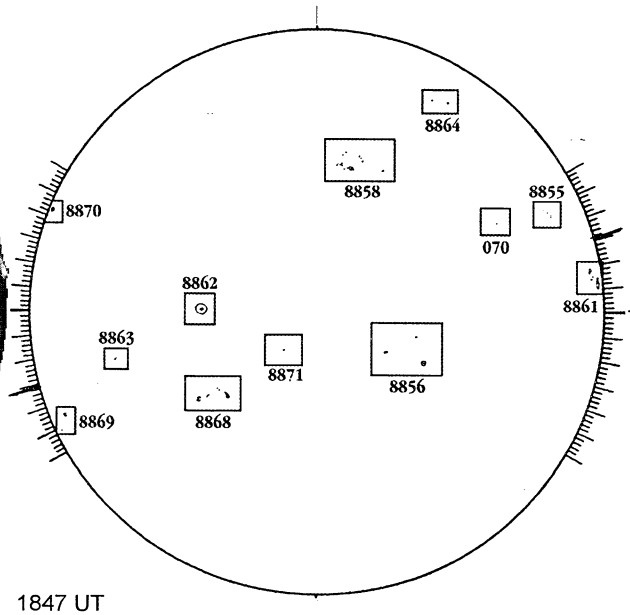


E---

0830 UT

S

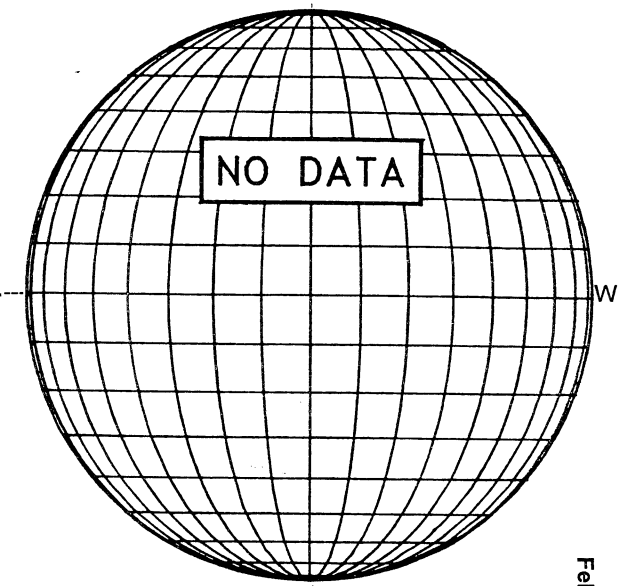
HOLLOMAN SUNSPOT



1847 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)----



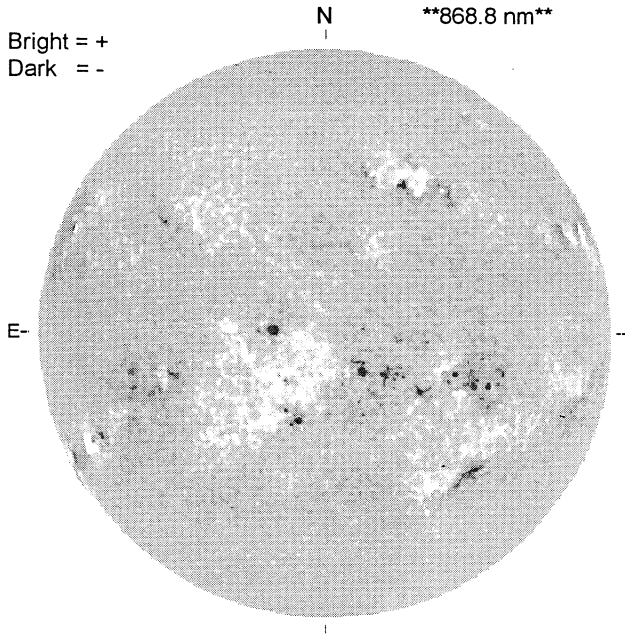
W

S

69
Feb 0(

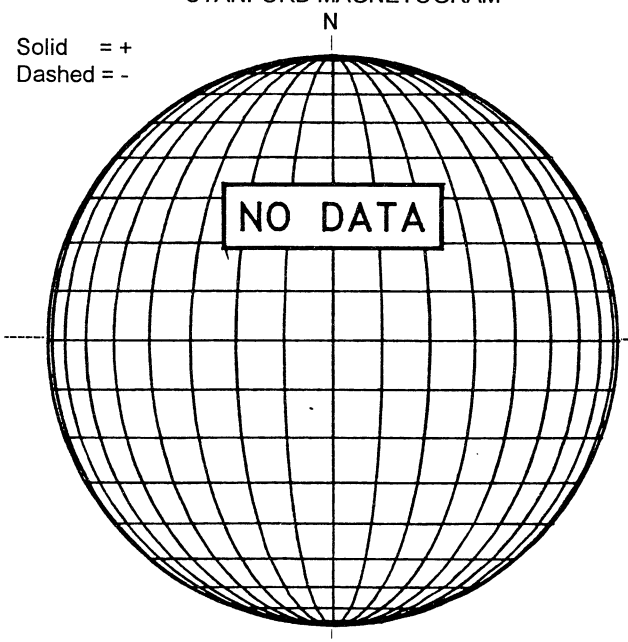
FEBRUARY 11, 2000 (P= -15.77, Bo = -6.61, Lo = 188.15)

KITT PEAK MAGNETOGRAM

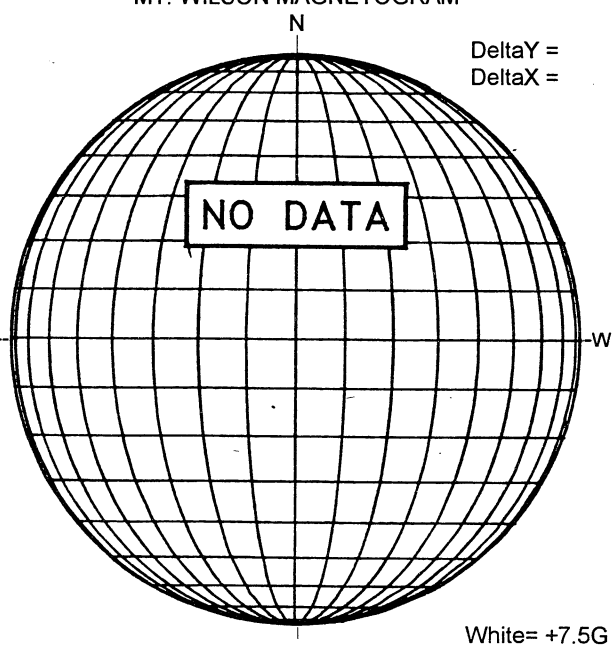


1807 UT

STANFORD MAGNETOGRAM

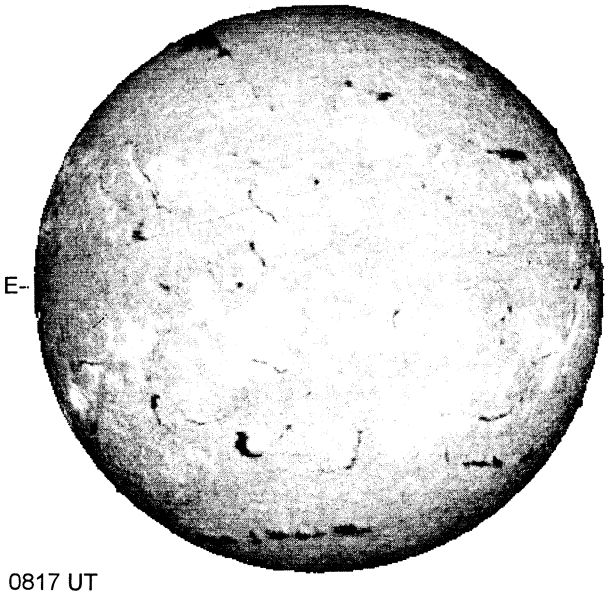


MT. WILSON MAGNETOGRAM



White= +7.5G
Black = -7.5G

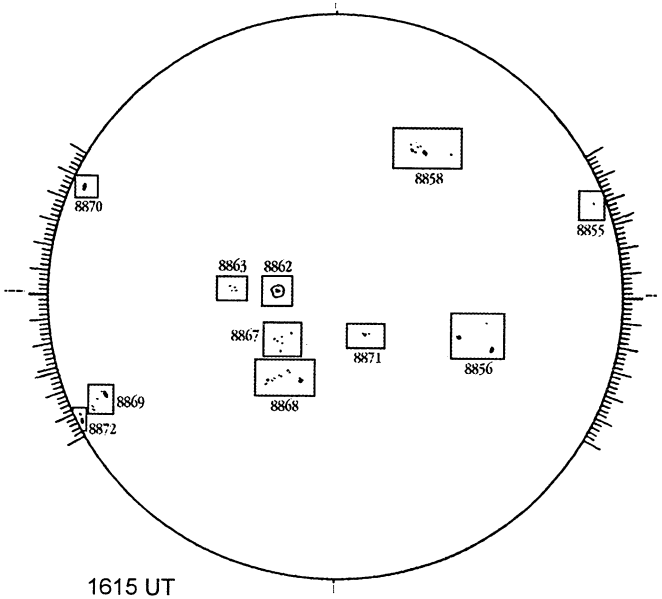
MEUDON H-ALPHA



0817 UT

S

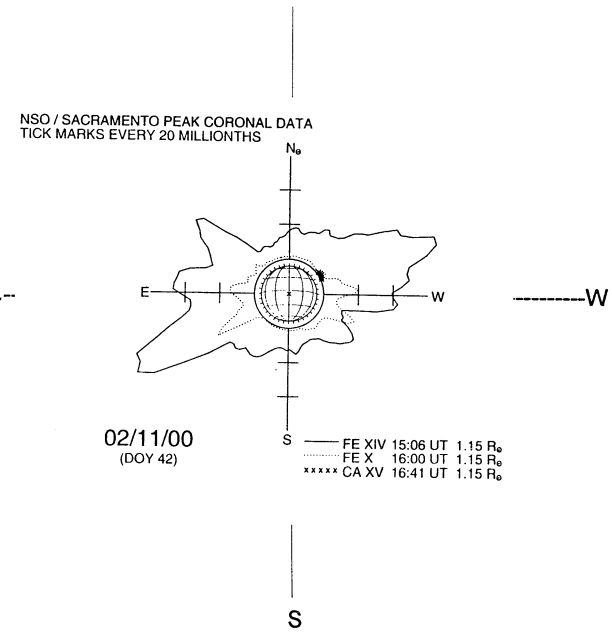
HOLLOMAN SUNSPOT



1615 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)

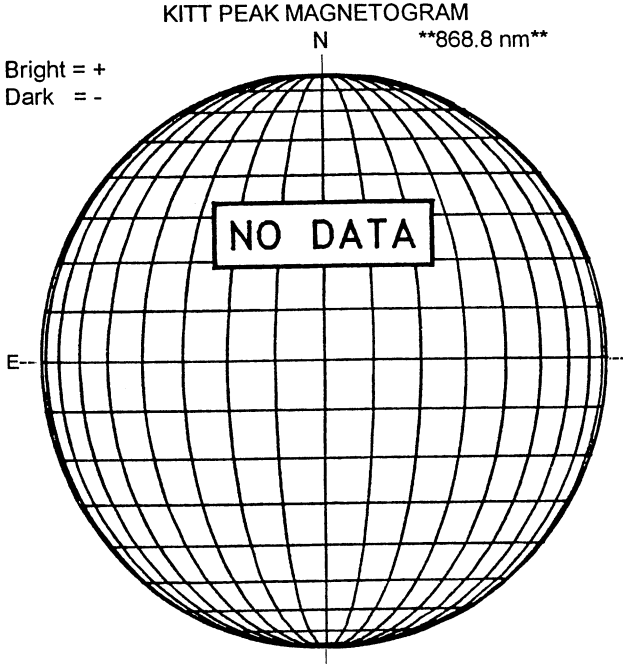


W

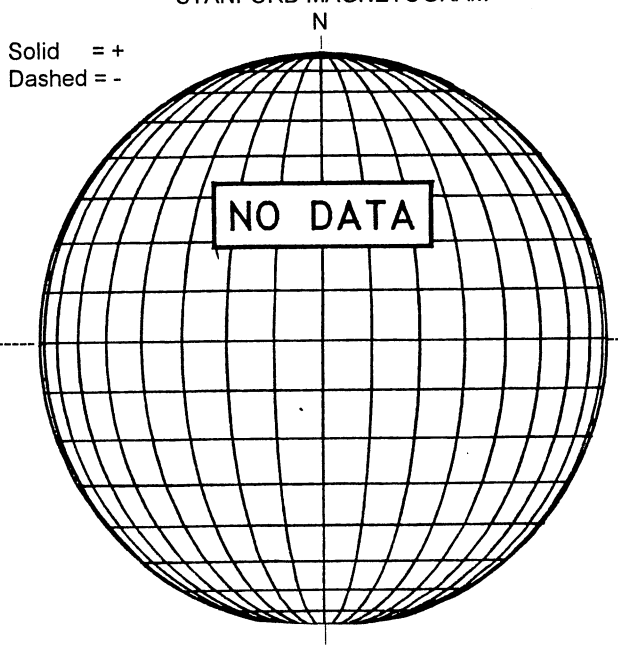
S

FEBRUARY 12, 2000 (P= -16.13, Bo = -6.66, Lo = 174.98)

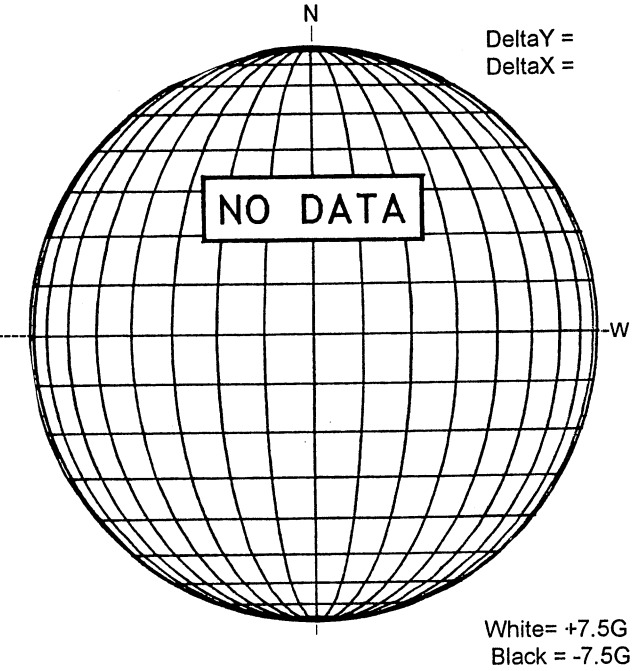
KITT PEAK MAGNETOGRAM



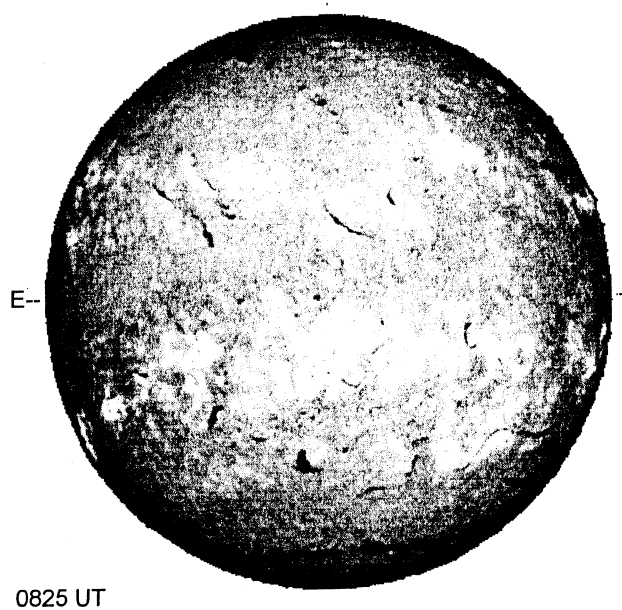
STANFORD MAGNETOGRAM



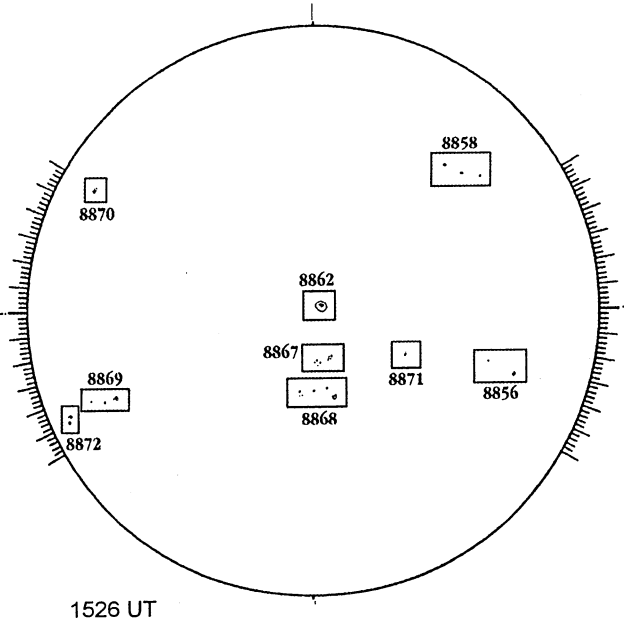
MT. WILSON MAGNETOGRAM



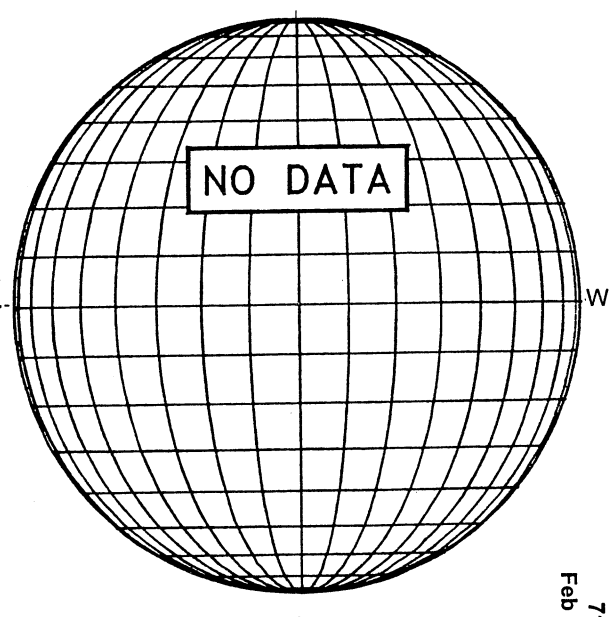
---- MEUDON H-ALPHA



HOLLOMAN SUNSPOT



SACRAMENTO PEAK CORONA (1.15 Radii)----



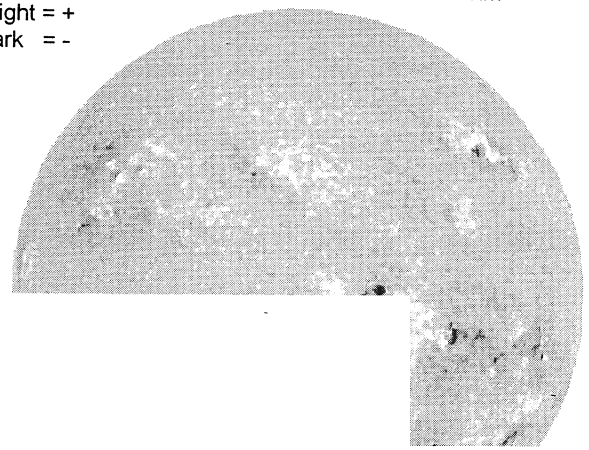
71
Feb 0

FEBRUARY 13, 2000 (P= -16.48, Bo = -6.71, Lo = 161.82)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -



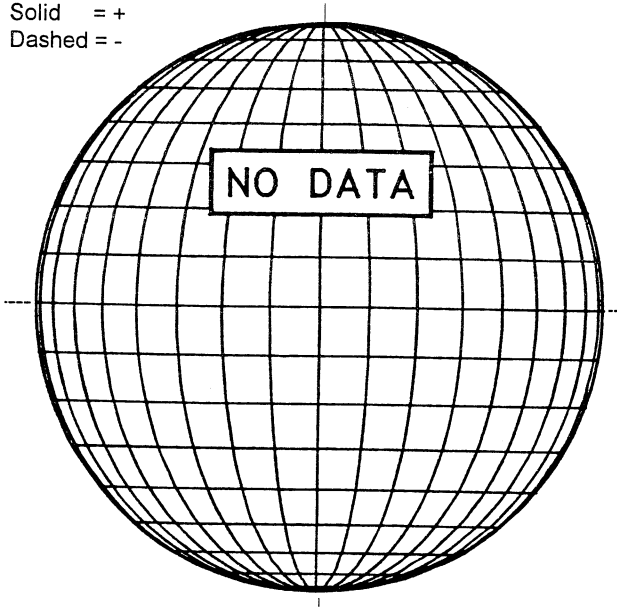
E--

1826 UT

STANFORD MAGNETOGRAM

N

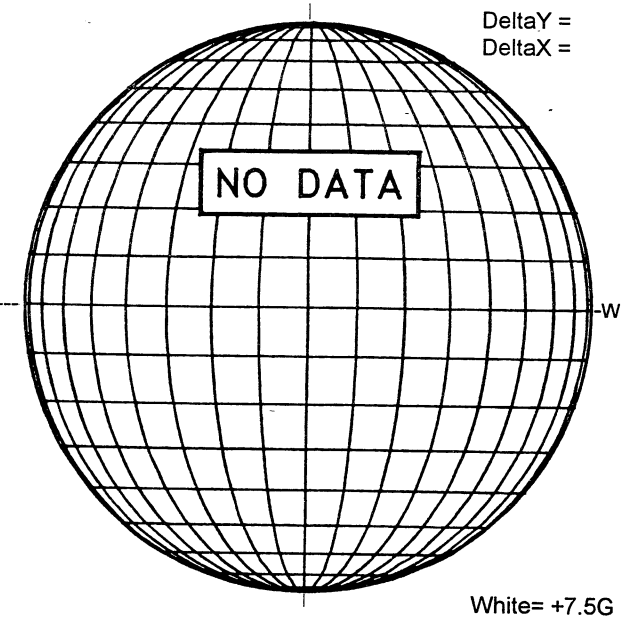
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

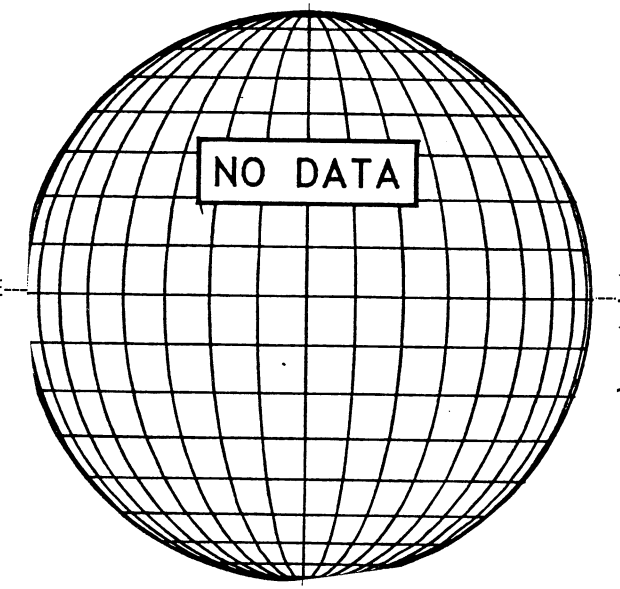
DeltaY =
DeltaX =



-W

White= +7.5G
Black = -7.5G

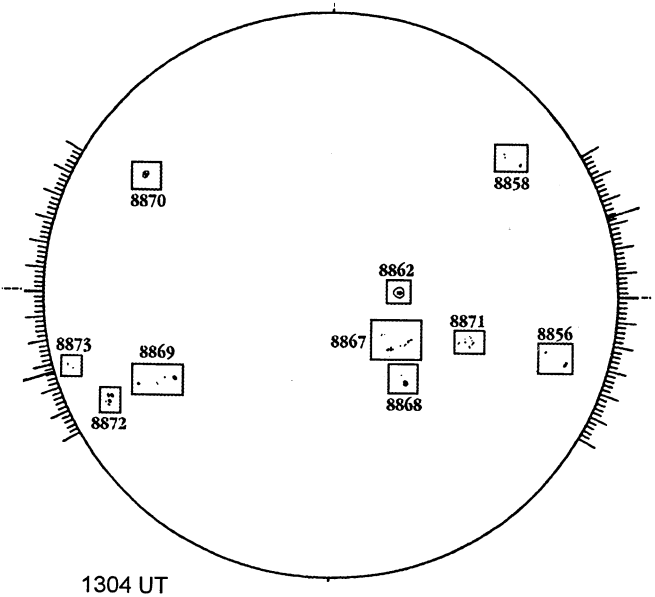
MEUDON H-ALPHA



E---

S

RAMEY SUNSPOT

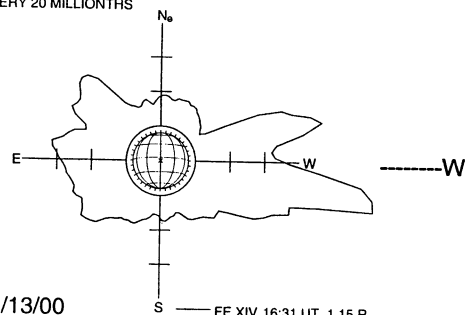


1304 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)----

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 20 MILLIONTHS



--------W

02/13/00
(DOY 44)

FE XIV 16:31 UT 1.15 R_o
xxxxx CA XV 17:10 UT 1.15 R_o
NO CA XV ACTIVITY TODAY

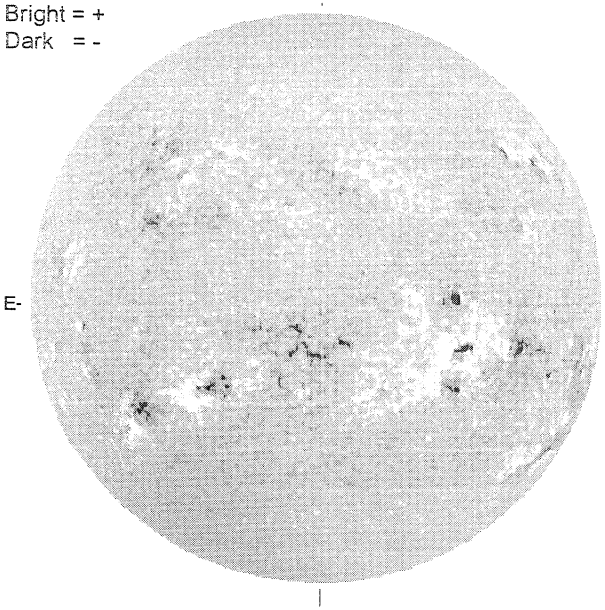
S

FEBRUARY 14, 2000 (P= -16.83, Bo = -6.76, Lo = 148.65)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -



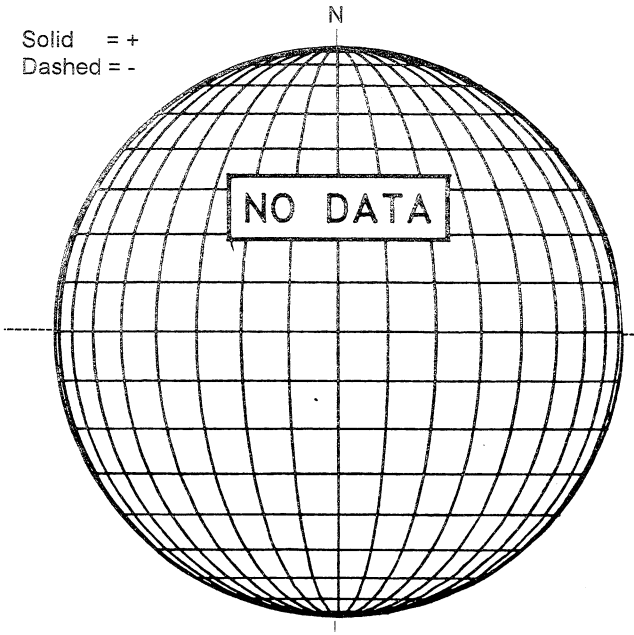
E-

1730 UT

STANFORD MAGNETOGRAM

N

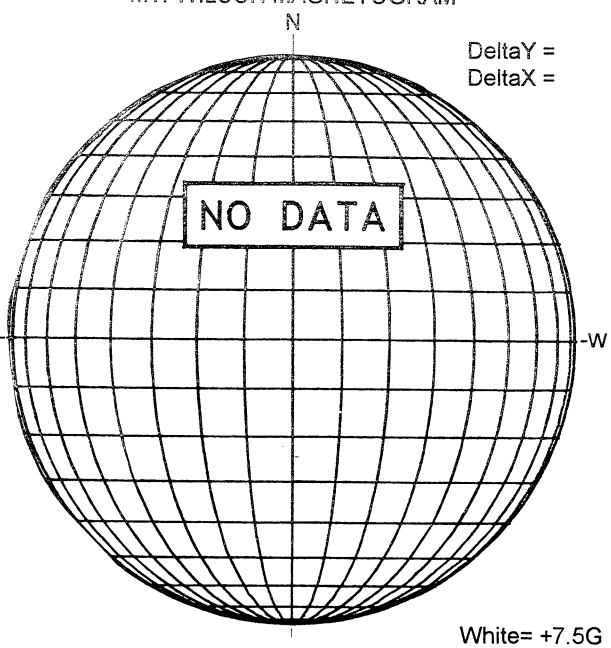
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

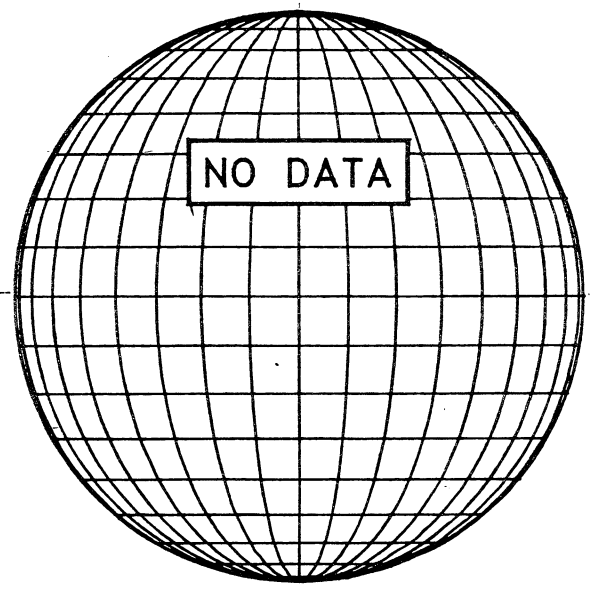
DeltaY =
DeltaX =



-W

White= +7.5G
Black = -7.5G

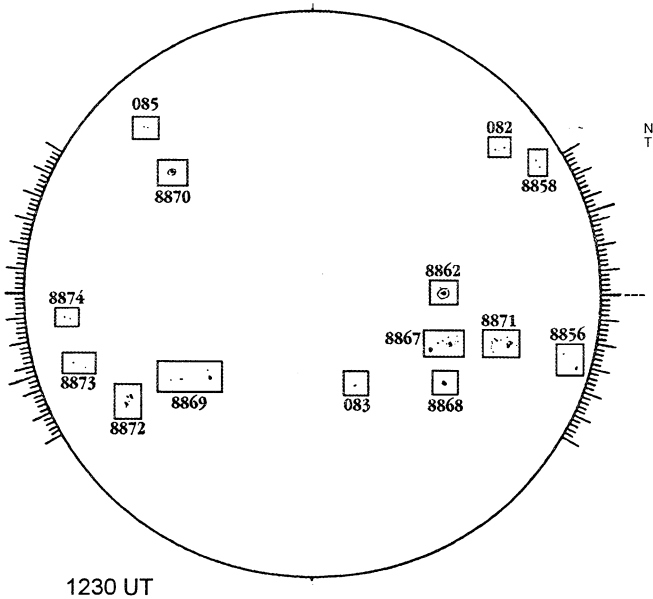
MEUDON H-ALPHA



E-

S

RAMEY SUNSPOT

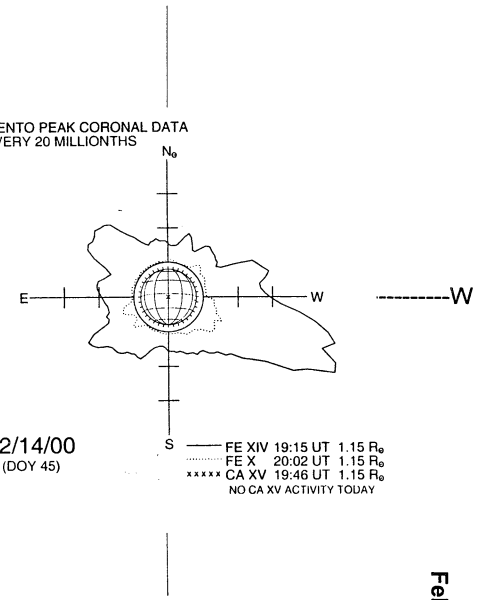


1230 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)----

NSO / SACRAMENTO PEAK CORONAL DATA
TICK MARKS EVERY 20 MILLIONTHS



----------W

02/14/00
(DOY 45)

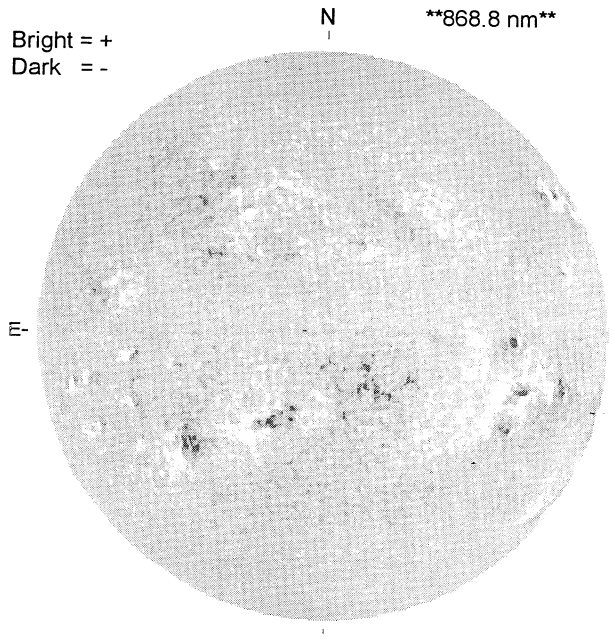
FE XIV 19:15 UT 1.15 R_s
FE X 20:02 UT 1.15 R_s
CA XV 19:46 UT 1.15 R_s
NO CA XV ACTIVITY TODAY

S

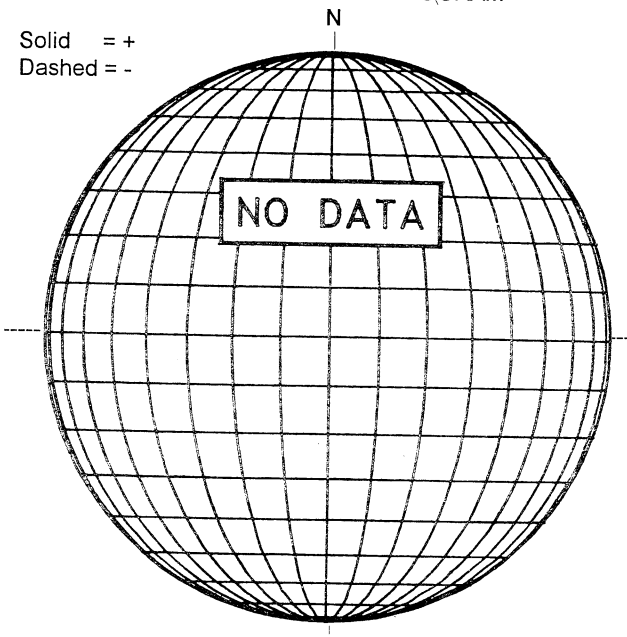
73
Feb 0

FEBRUARY 15, 2000 (P= -17.17, Bo = -6.81, Lo = 135.48)

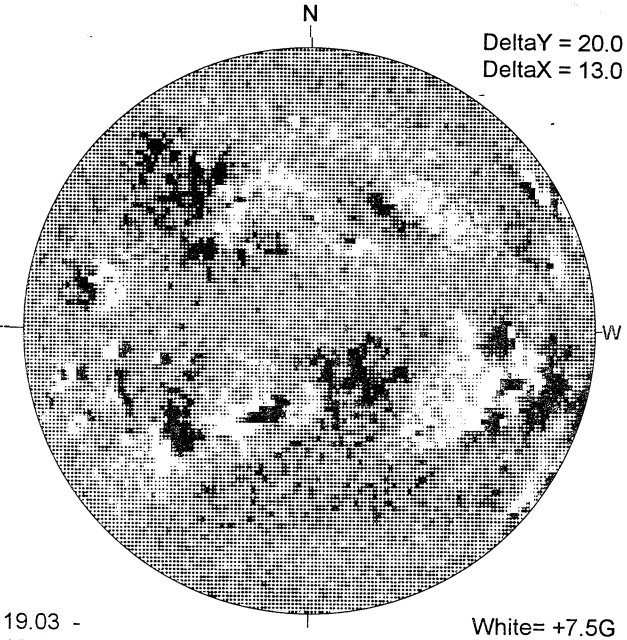
KITT PEAK MAGNETOGRAM



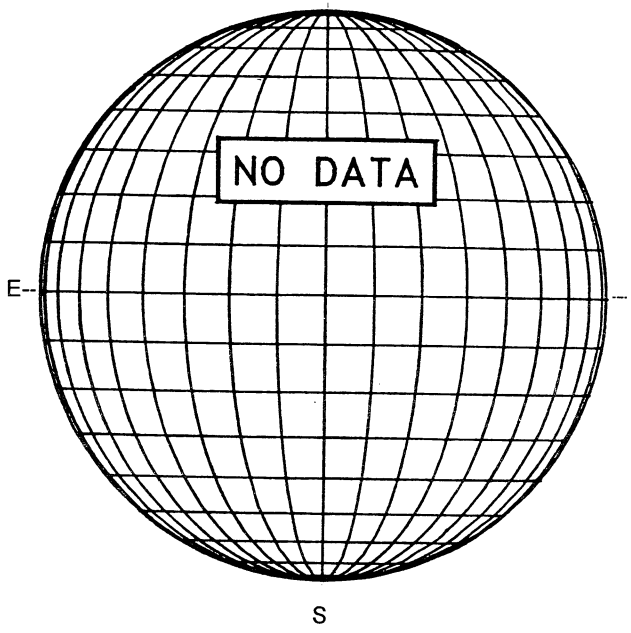
STANFORD MAGNETOGRAM



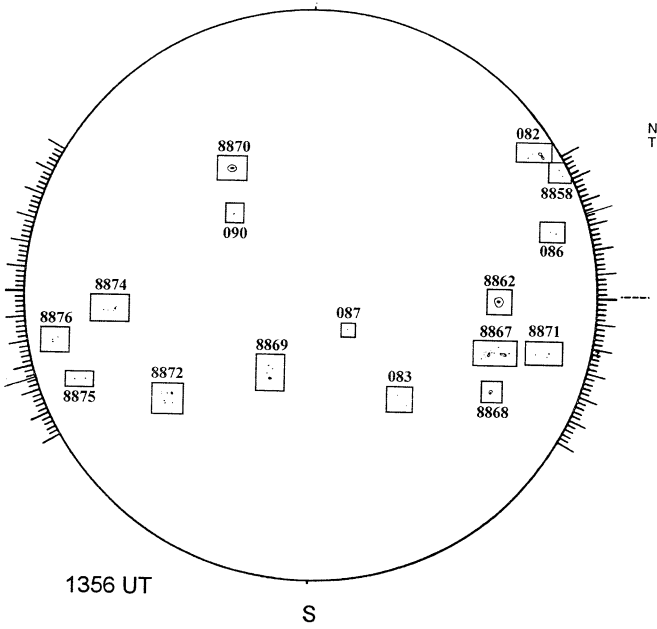
MT. WILSON MAGNETOGRAM



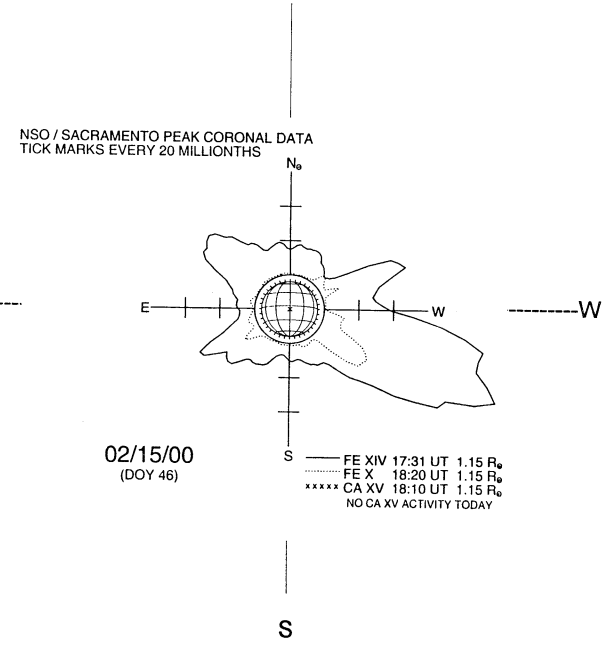
MEUDON H-ALPHA



RAMEY SUNSPOT

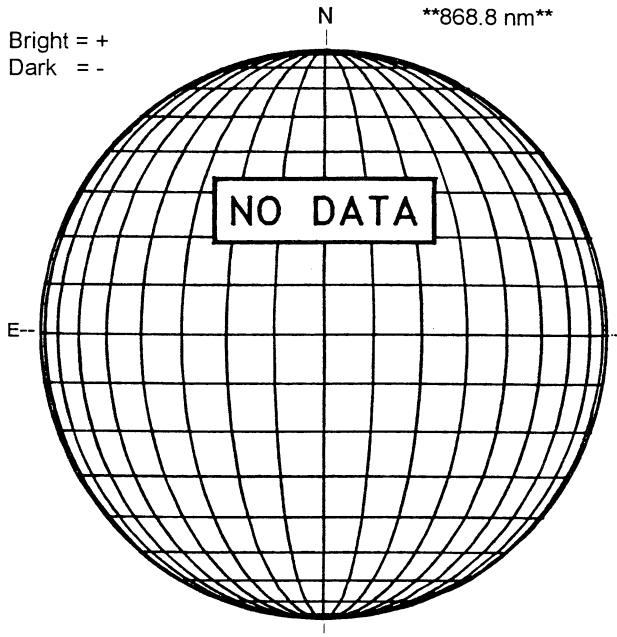


SACRAMENTO PEAK CORONA (1.15 Radii)----

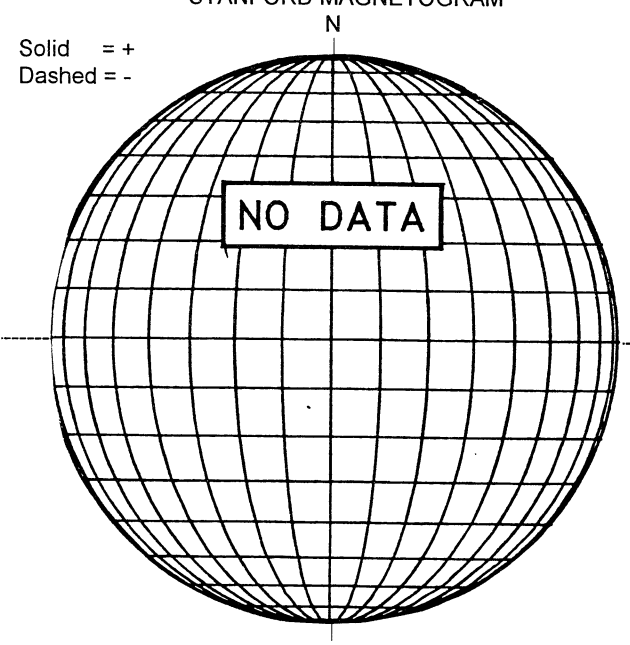


FEBRUARY 16, 2000 (P= -17.51, Bo = -6.85, Lo = 122.31)

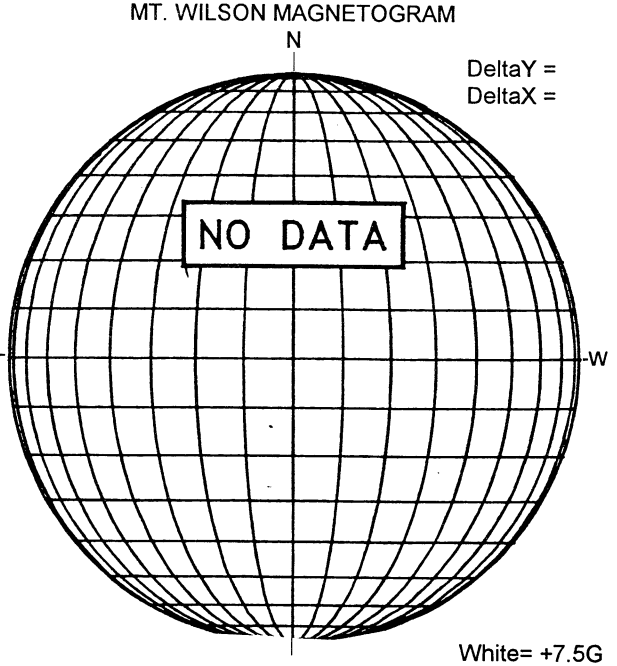
KITT PEAK MAGNETOGRAM



STANFORD MAGNETOGRAM

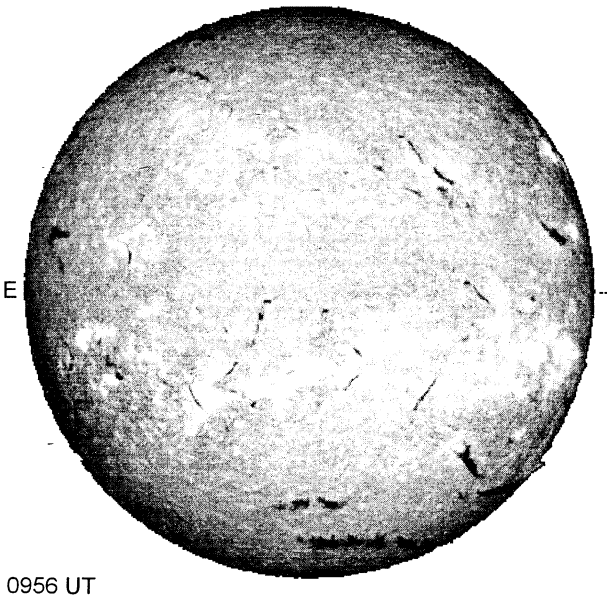


MT. WILSON MAGNETOGRAM

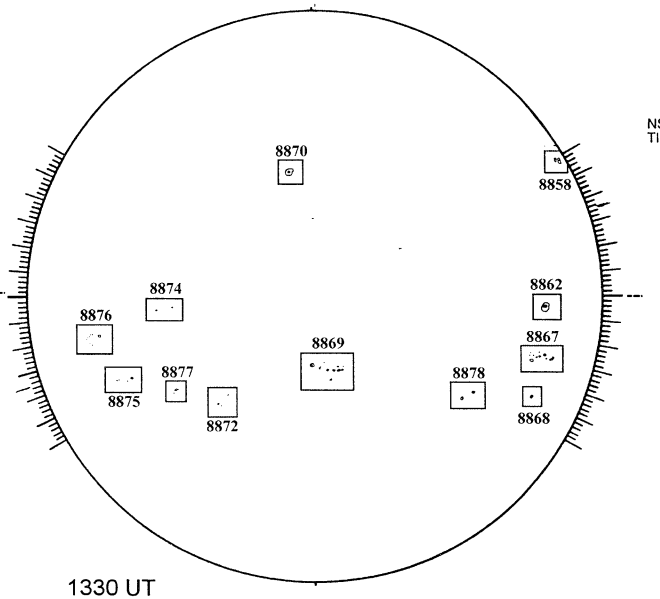


White= +7.5G
Black = -7.5G

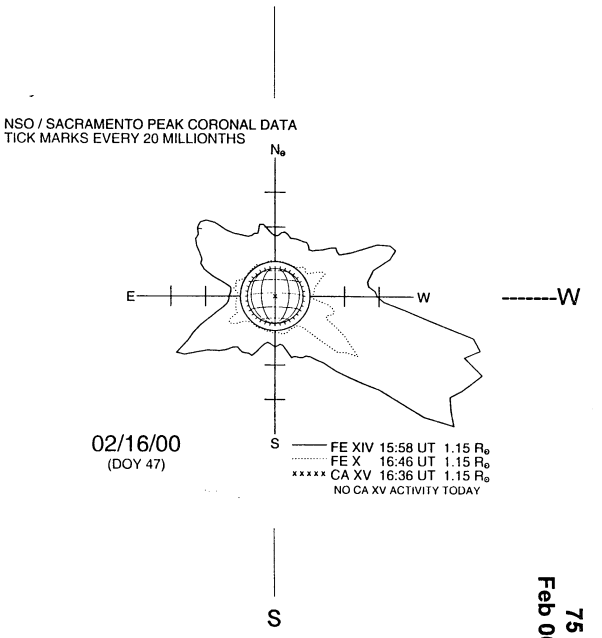
MEUDON H-ALPHA



RAMEY SUNSPOT



SACRAMENTO PEAK CORONA (1.15 Radii)----

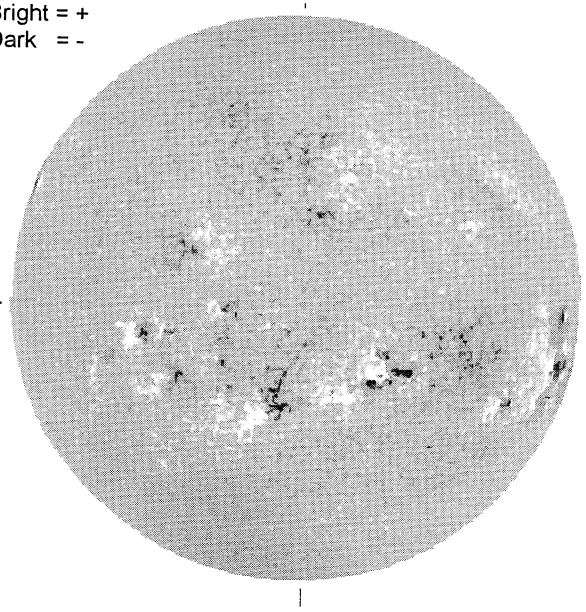


FEBRUARY 17, 2000 (P= -17.84, Bo = -6.89, Lo = 109.14)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -



E-

2013 UT

STANFORD MAGNETOGRAM

N

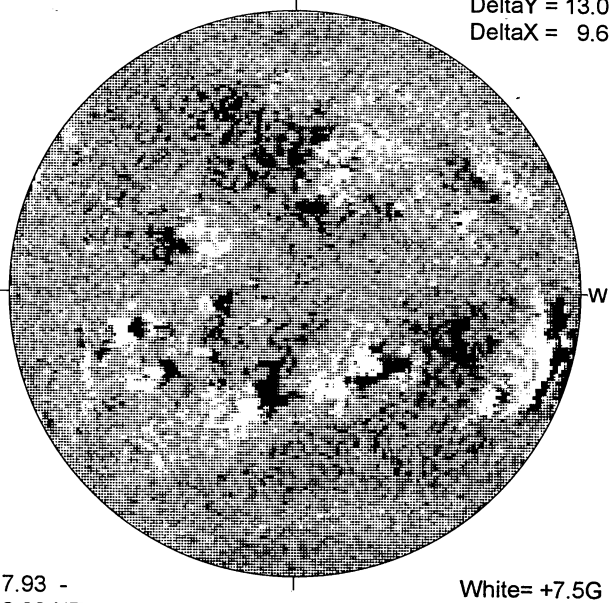
Solid = +
Dashed = -

1647 UT

MT. WILSON MAGNETOGRAM

N

DeltaY = 13.0
DeltaX = 9.6

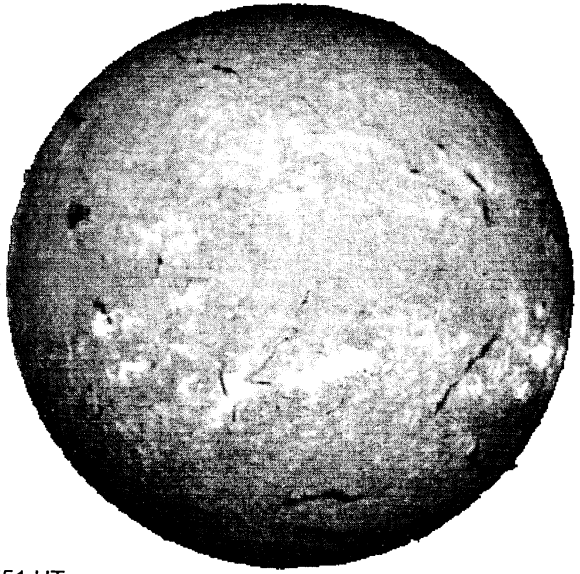


W

17.93 -
18.90 UT

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

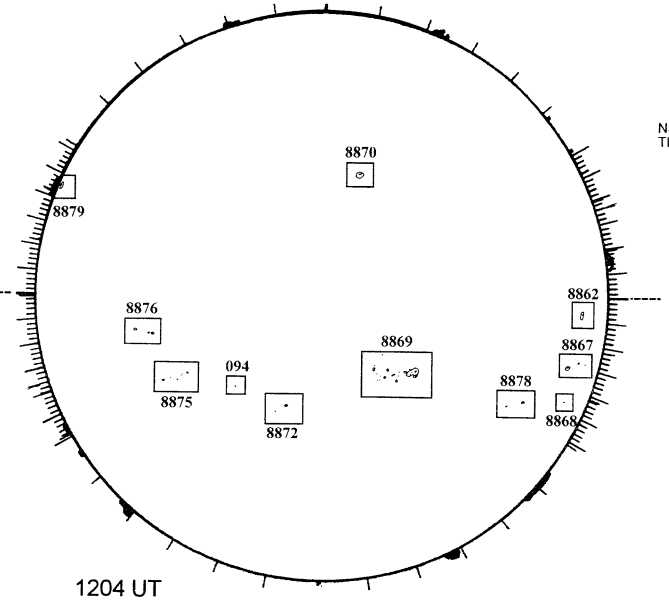


E--

0751 UT

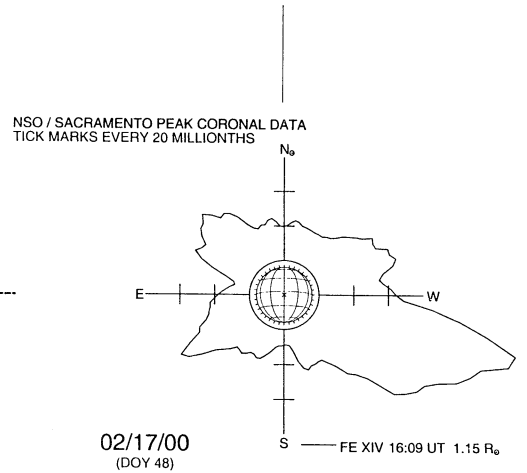
S

RAMEY SUNSPOT



1204 UT
1508 UT VALA Prom S

SACRAMENTO PEAK CORONA (1.15 Radii)----



-----W

02/17/00
(DOY 48)

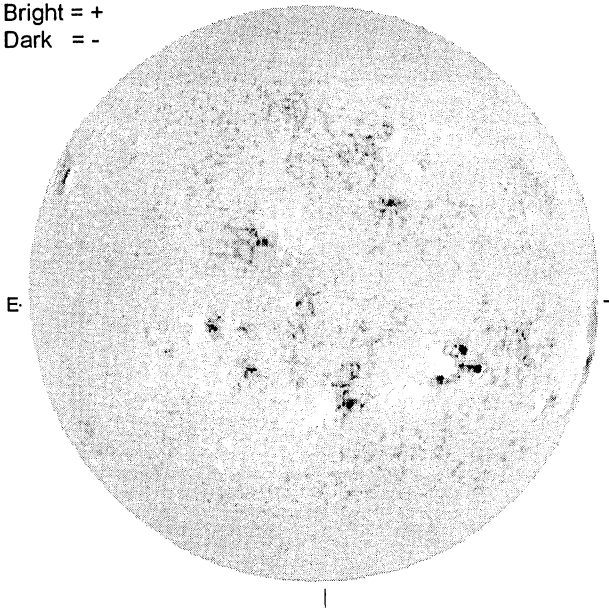
S

FEBRUARY 18, 2000 (P= -18.17, Bo = -6.93, Lo = 95.97)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -



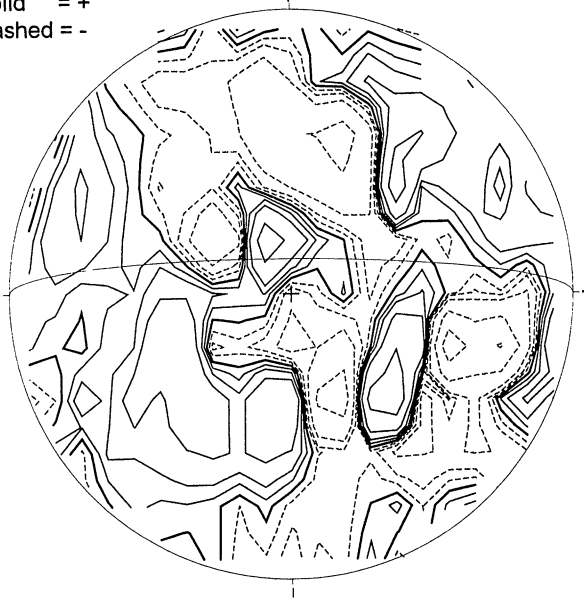
E

1653 UT

STANFORD MAGNETOGRAM

N

Solid = +
Dashed = -

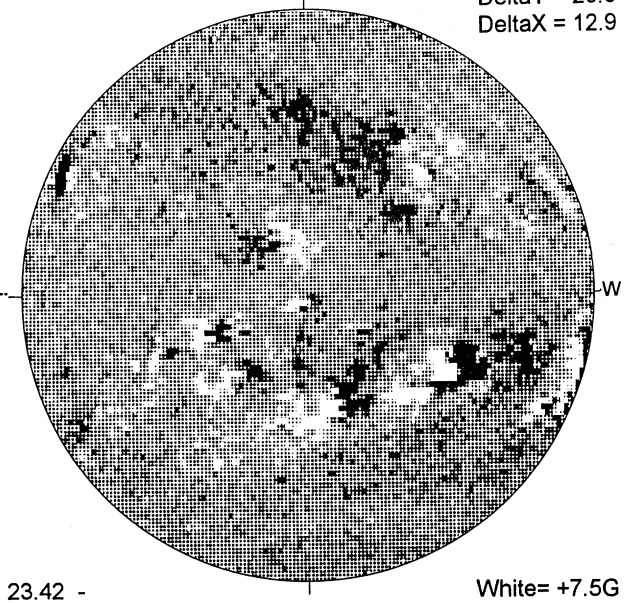


1740 UT

MT. WILSON MAGNETOGRAM

N

DeltaY = 20.0
DeltaX = 12.9



W

23.42 -
23.84 UT

White= +7.5G
Black = -7.5G

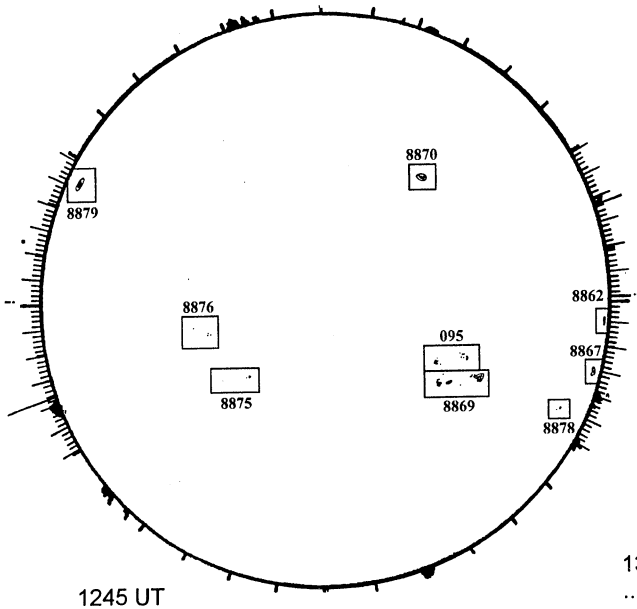
MEUDON H-ALPHA

E

1301 UT

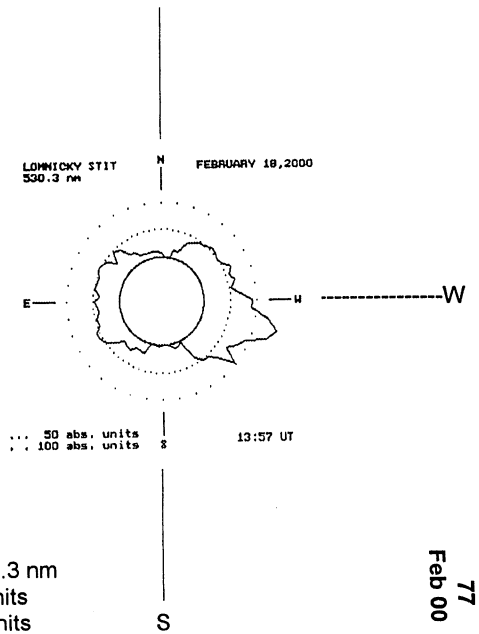
S

RAMEY SUNSPOT



1245 UT
1230 UT LOMN Prom S

LOMNICKY PEAK CORONA (1.04 Radii)----



1357 UT, 530.3 nm
.... 50 abs. units
. . 100 abs. units

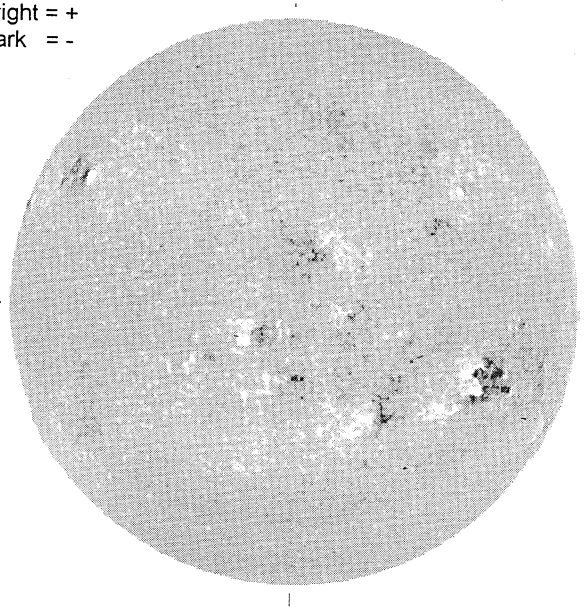
77
Feb 00

FEBRUARY 19, 2000 (P= -18.49, B0 = -6.97, L0 = 82.81)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -



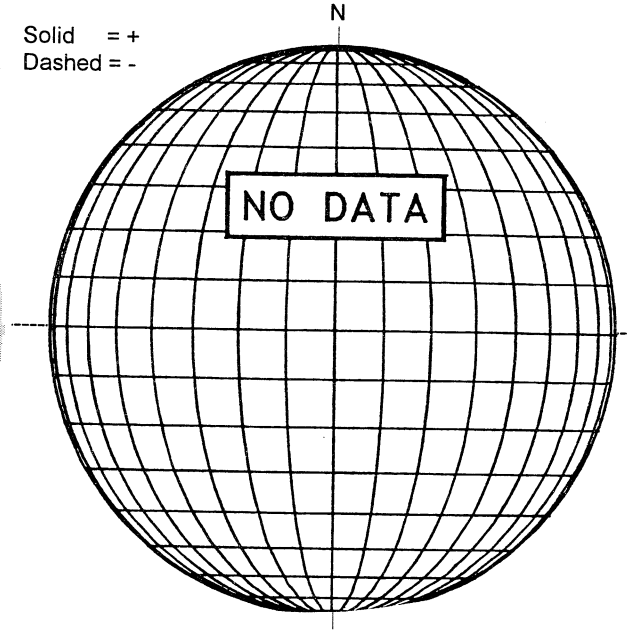
E--

2025 UT

STANFORD MAGNETOGRAM

N

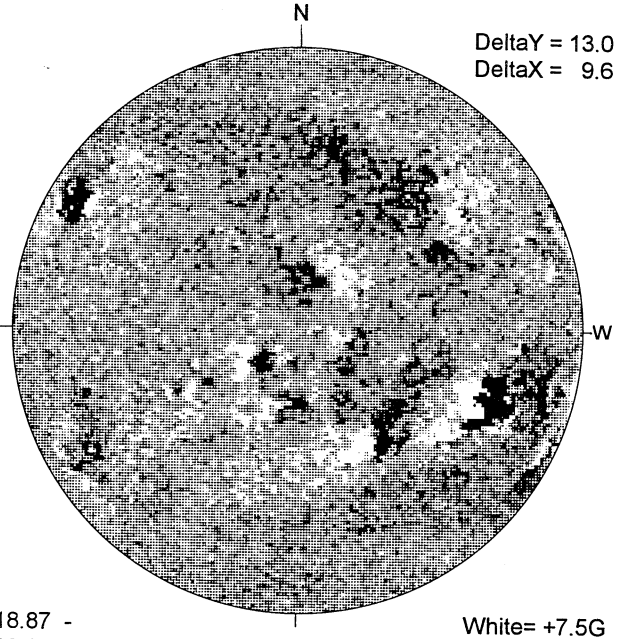
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

DeltaY = 13.0
DeltaX = 9.6

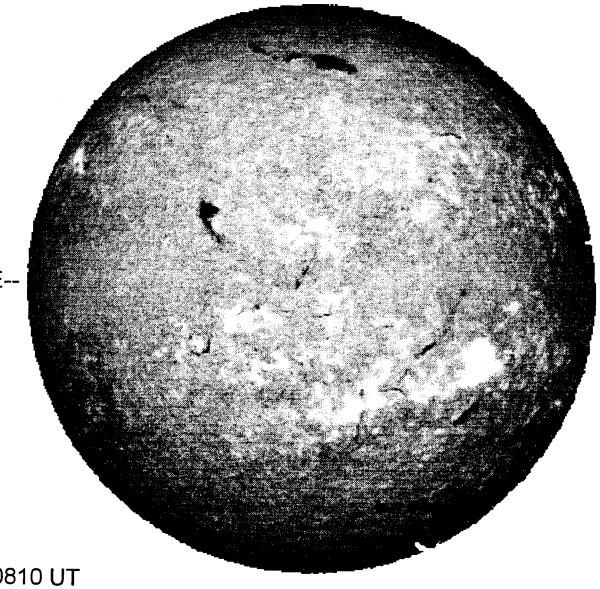


W

18.87 -
19.84 UT

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

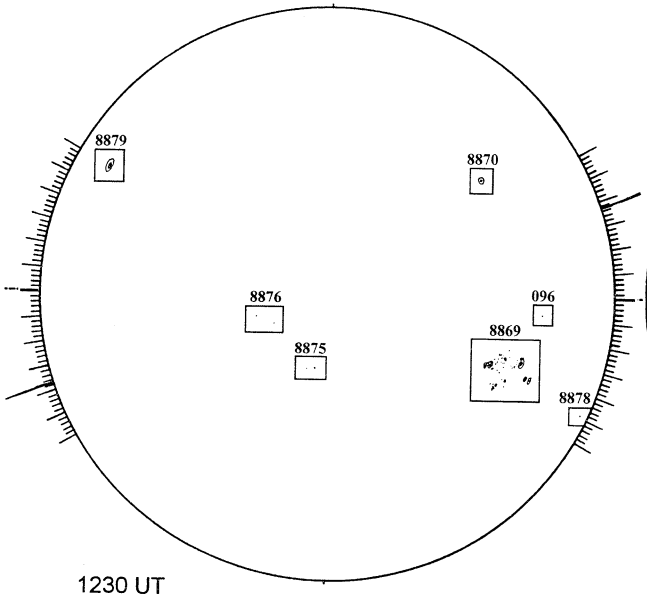


E--

0810 UT

S

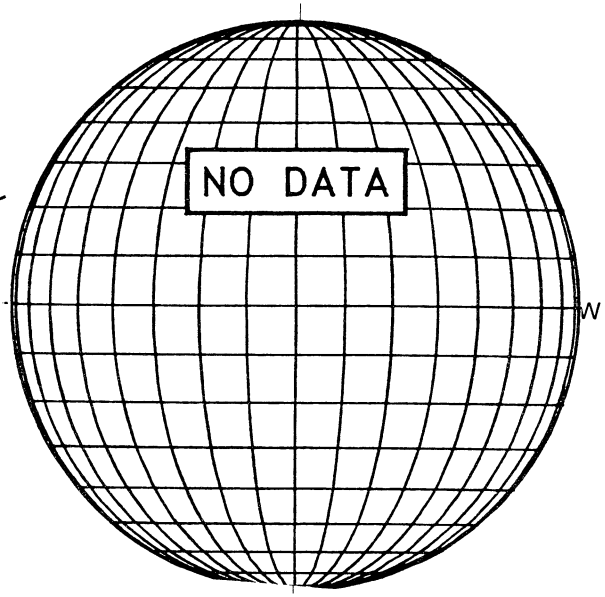
RAMEY SUNSPOT



1230 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)----

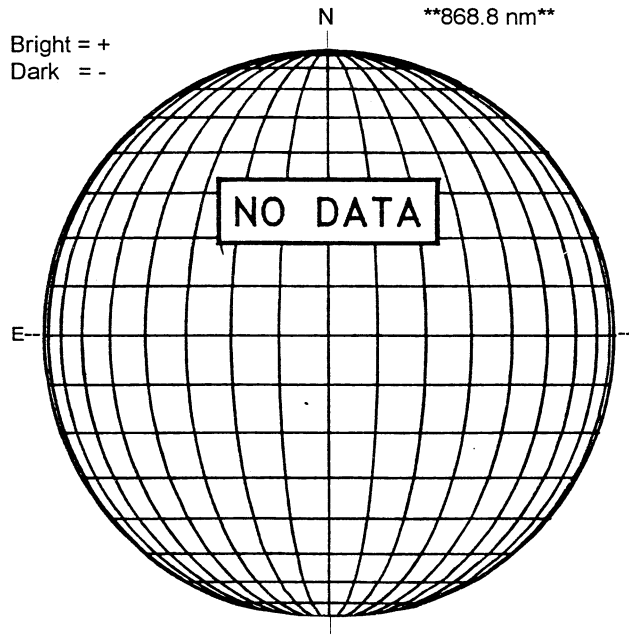


W

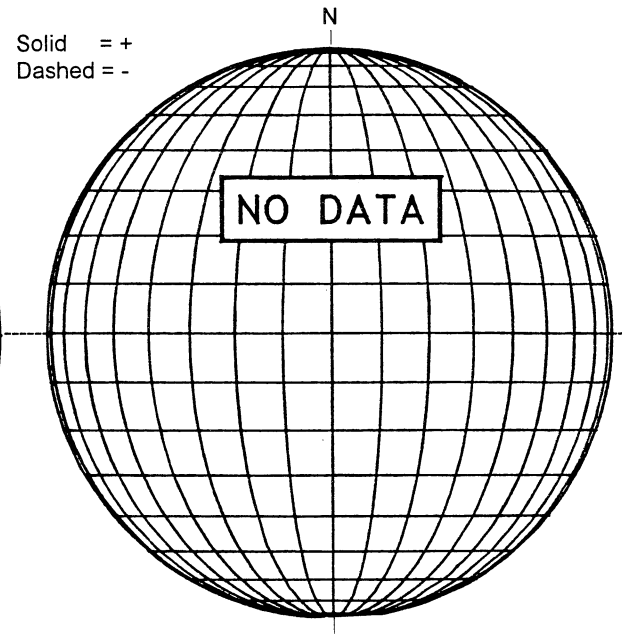
S

FEBRUARY 20, 2000 (P= -18.80, Bo = -7.00, Lo = 69.64)

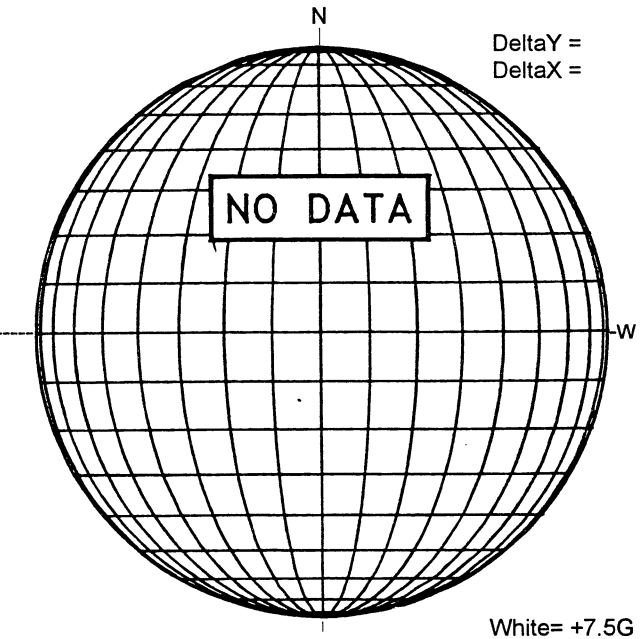
KITT PEAK MAGNETOGRAM



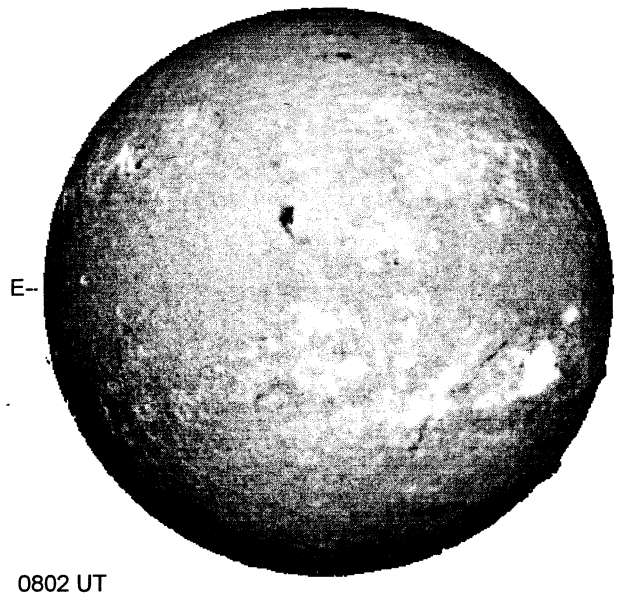
STANFORD MAGNETOGRAM



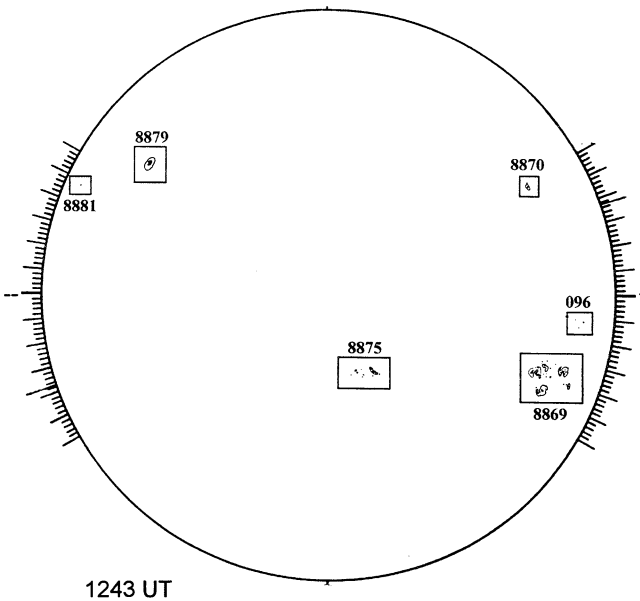
MT. WILSON MAGNETOGRAM



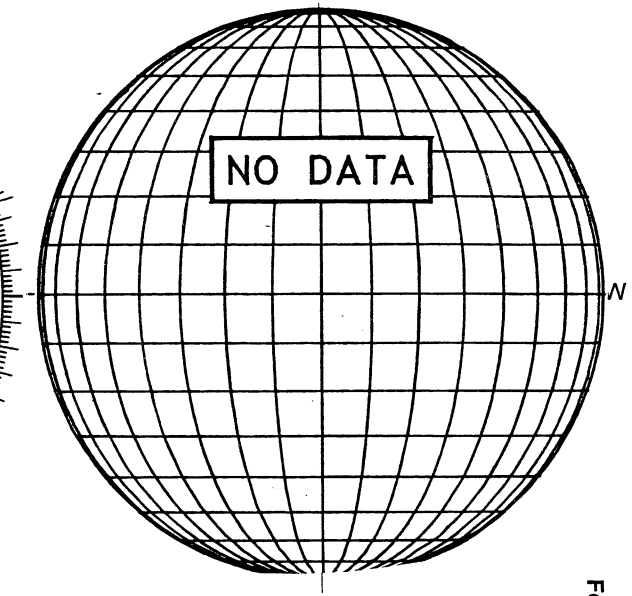
---- MEUDON H-ALPHA



RAMEY SUNSPOT



LOMNICKY PEAK CORONA (1.04 Radii)----



79
Feb 0(

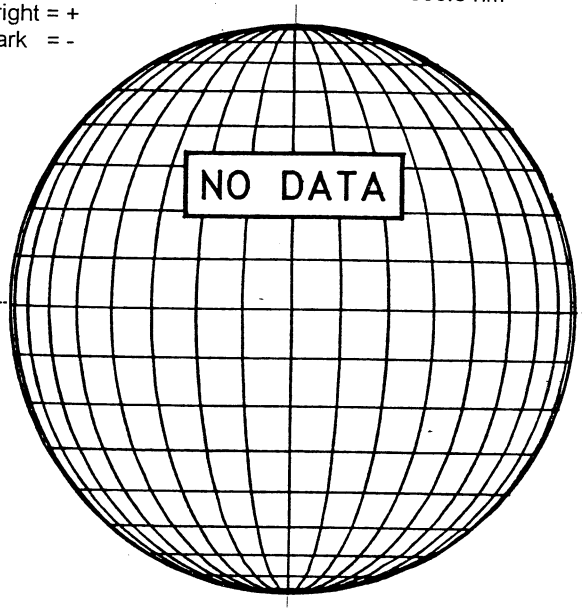
FEBRUARY 21, 2000 (P= -19.11, Bo = -7.03, Lo = 56.47)

KITT PEAK MAGNETOGRAM

N

868.8 nm

Bright = +
Dark = -

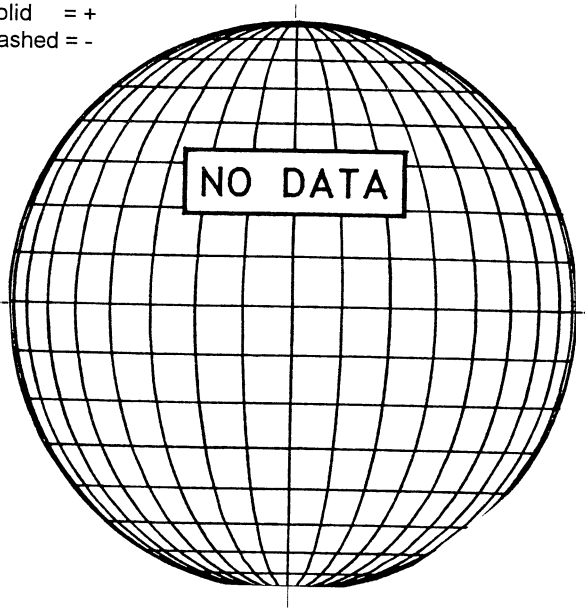


E--

STANFORD MAGNETOGRAM

N

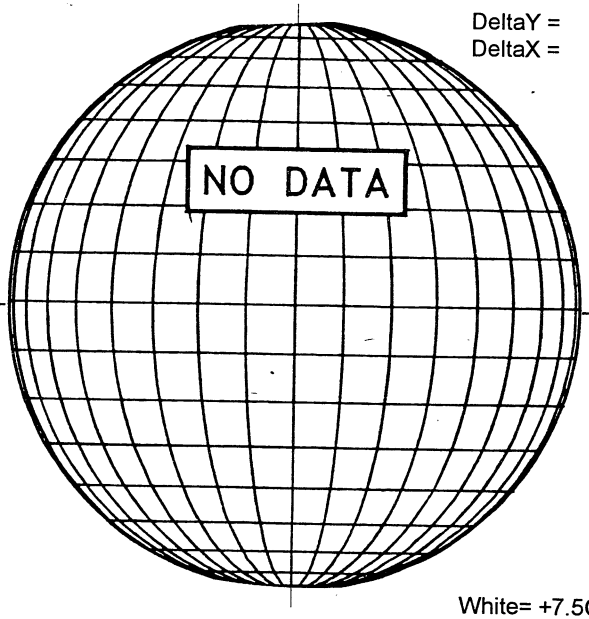
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

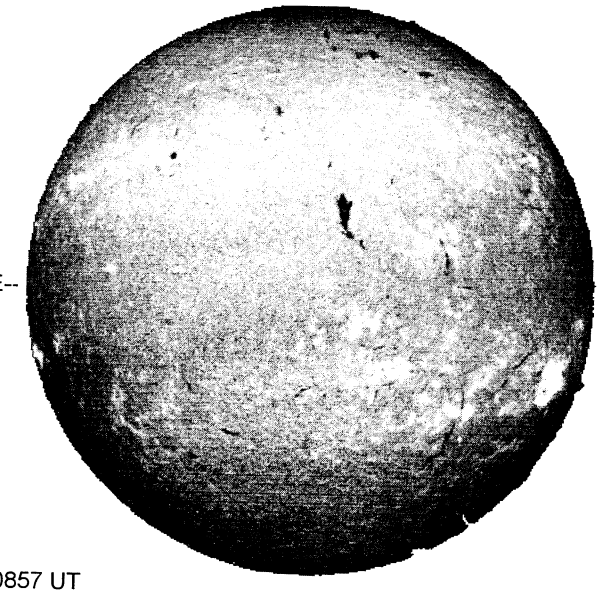
DeltaY =
DeltaX =



-W

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

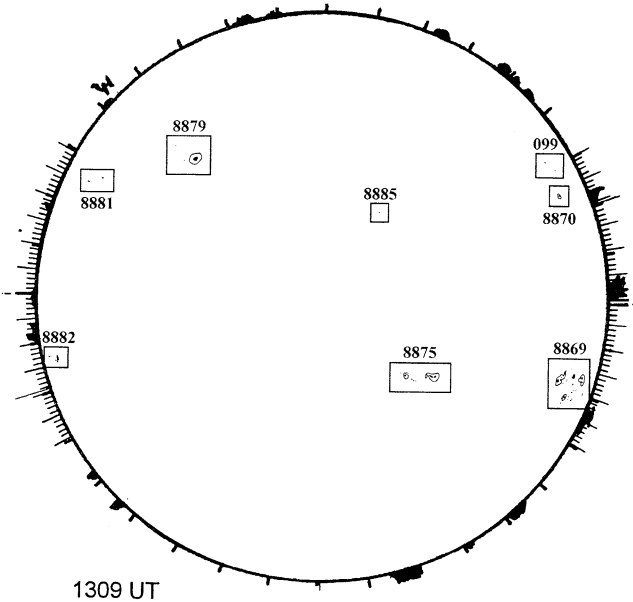


E--

0857 UT

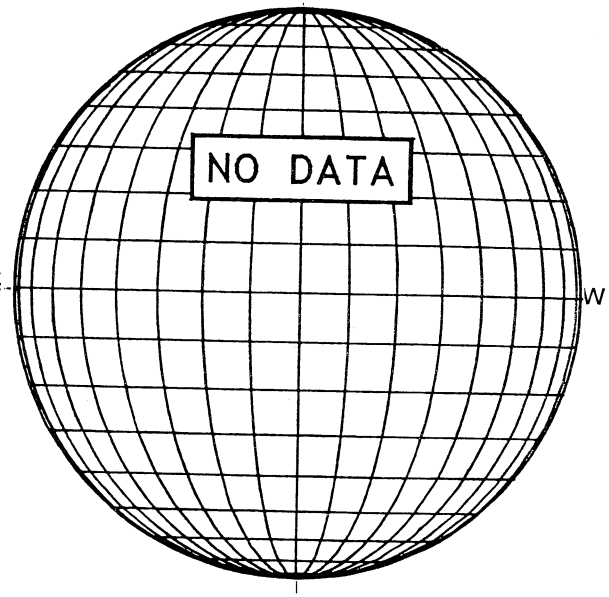
S

RAMEY SUNSPOT



1309 UT
0850 UT LOMN Prom S

LOMNICKY PEAK CORONA (1.04 Radii)----



W

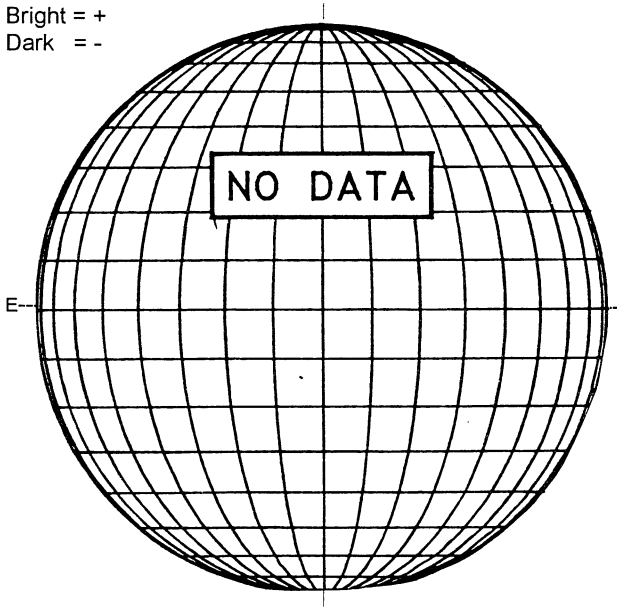
S

FEBRUARY 22, 2000 (P= -19.41, Bo = -7.06, Lo = 43.30)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -

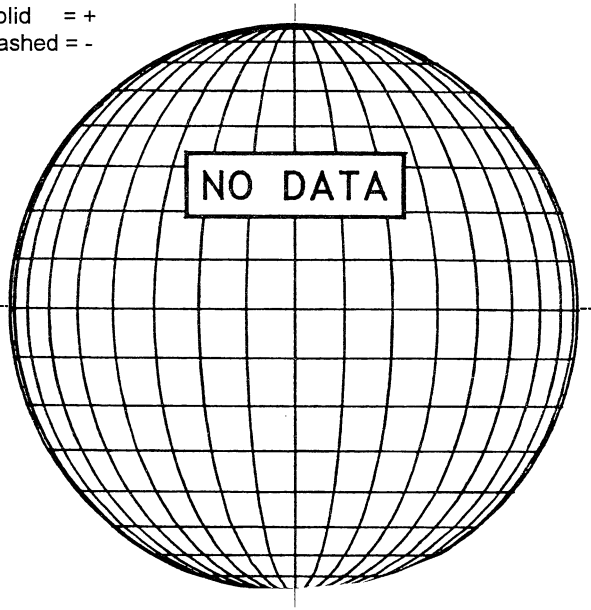


E--

STANFORD MAGNETOGRAM

N

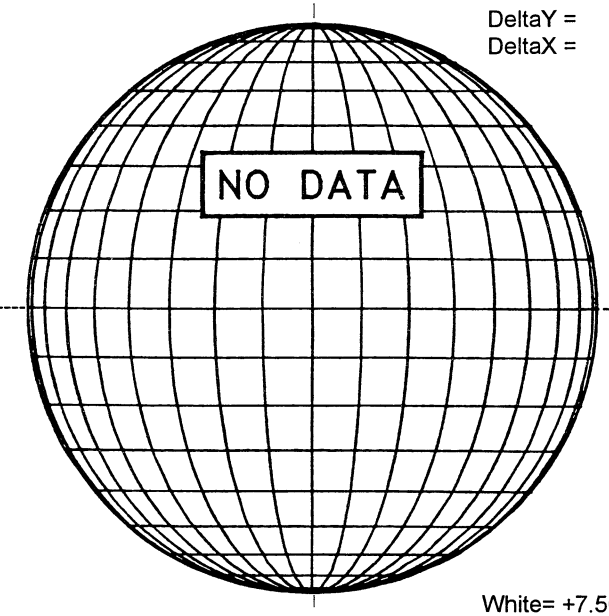
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

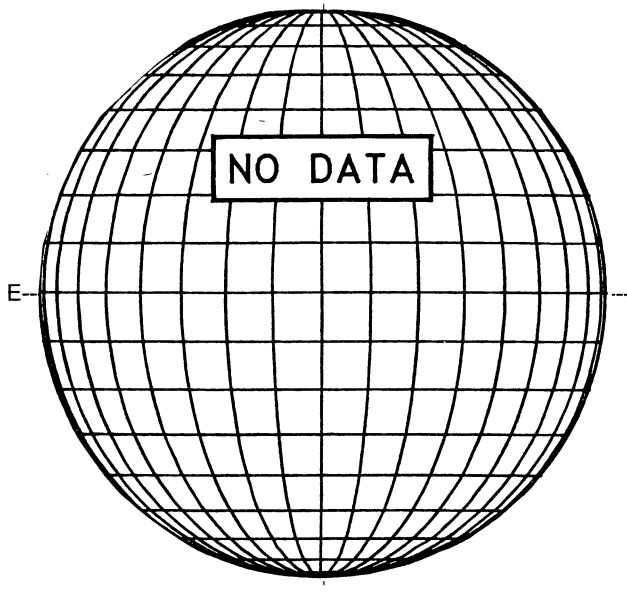
DeltaY =
DeltaX =



-W

White= +7.5G
Black = -7.5G

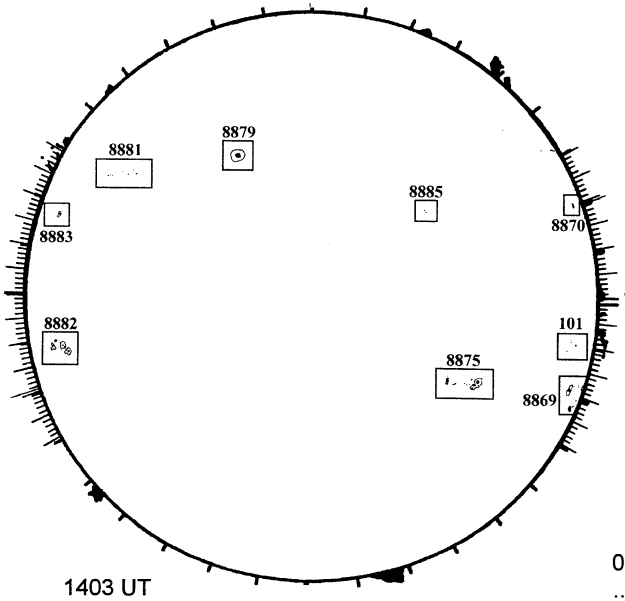
MEUDON H-ALPHA



E--

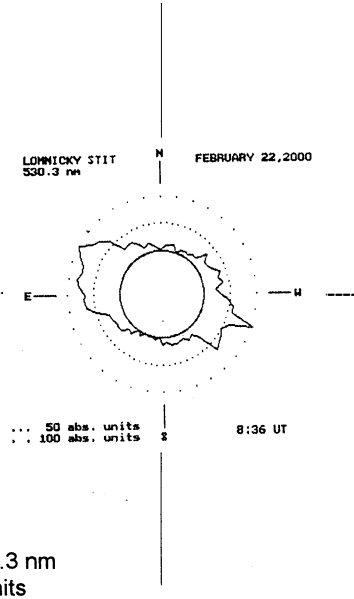
S

RAMEY SUNSPOT



1403 UT
0728 UT LOMN Prom S

LOMNICKY PEAK CORONA (1.04 Radii)----



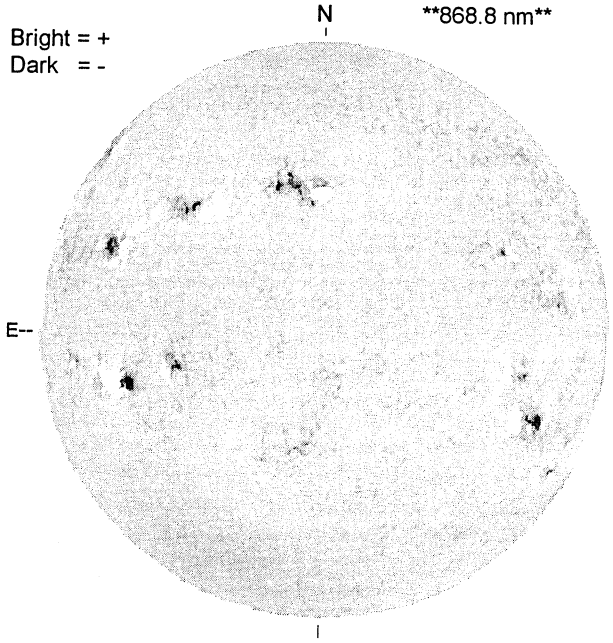
----------W

0836 UT, 530.3 nm
.... 50 abs. units
. . 100 abs. units

81
Feb 00

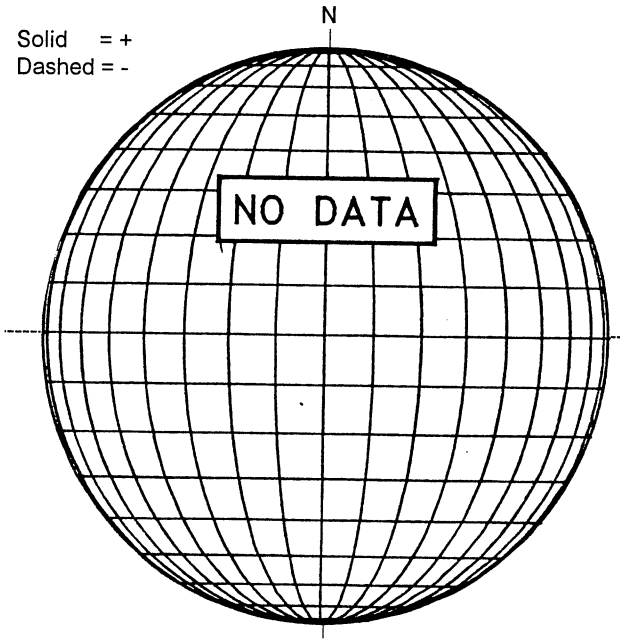
FEBRUARY 23, 2000 (P= -19.71, Bo = -7.09, Lo = 30.13)

KITT PEAK MAGNETOGRAM

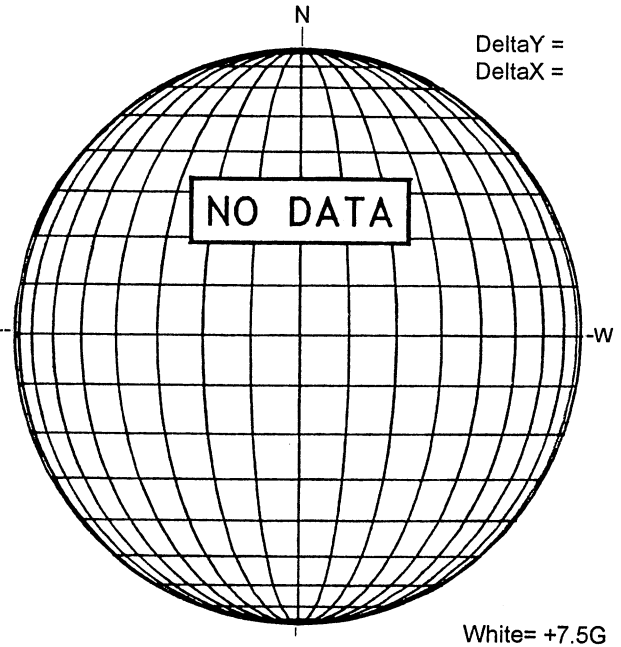


1744 UT

STANFORD MAGNETOGRAM

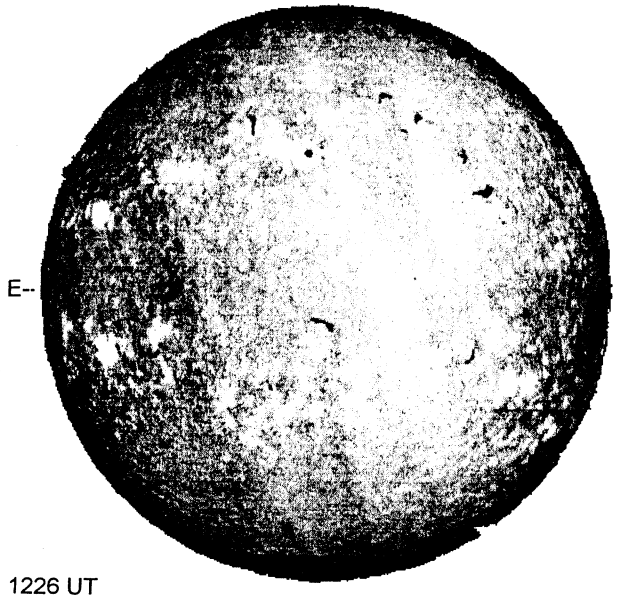


MT. WILSON MAGNETOGRAM



White= +7.5G
Black = -7.5G

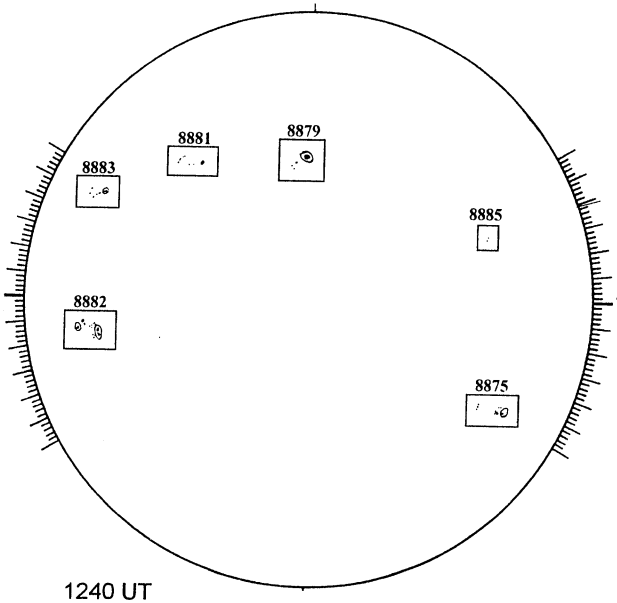
----- MEUDON H-ALPHA



1226 UT

S

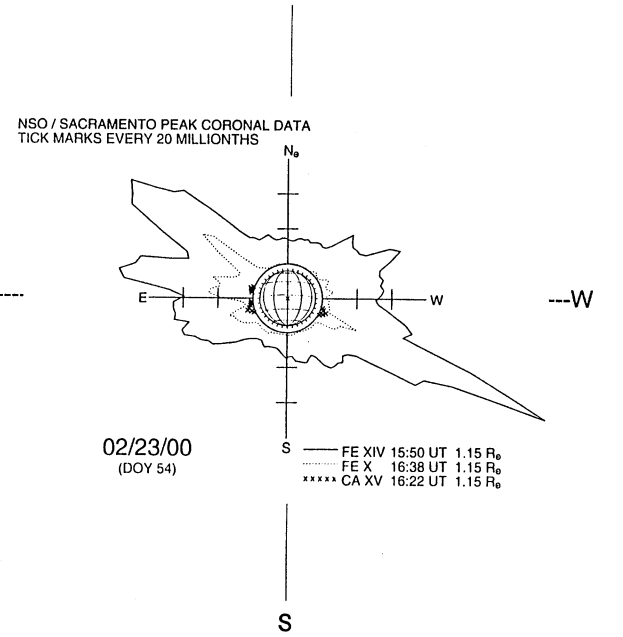
RAMEY SUNSPOT



1240 UT

S

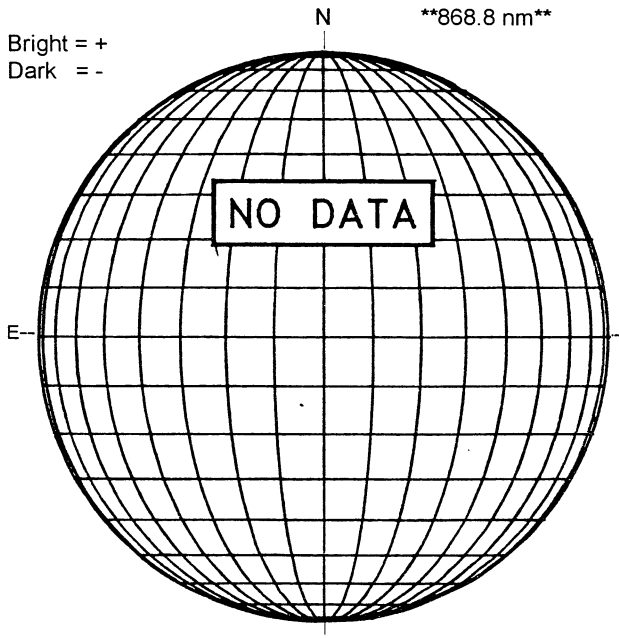
SACRAMENTO PEAK CORONA (1.15 Radii)----



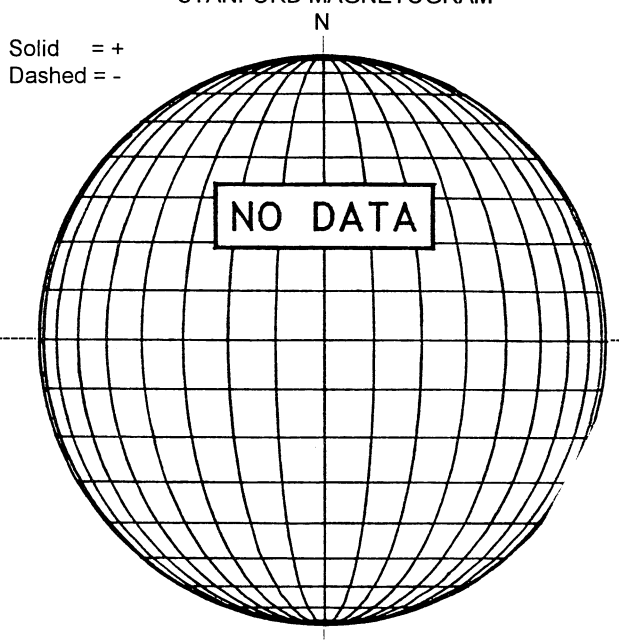
S

FEBRUARY 24, 2000 (P= -20.00, Bo = -7.12, Lo = 16.96)

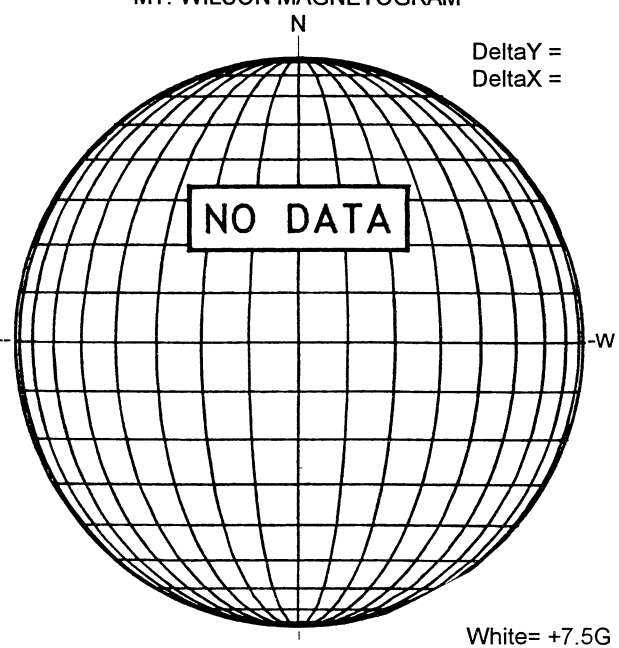
KITT PEAK MAGNETOGRAM



STANFORD MAGNETOGRAM

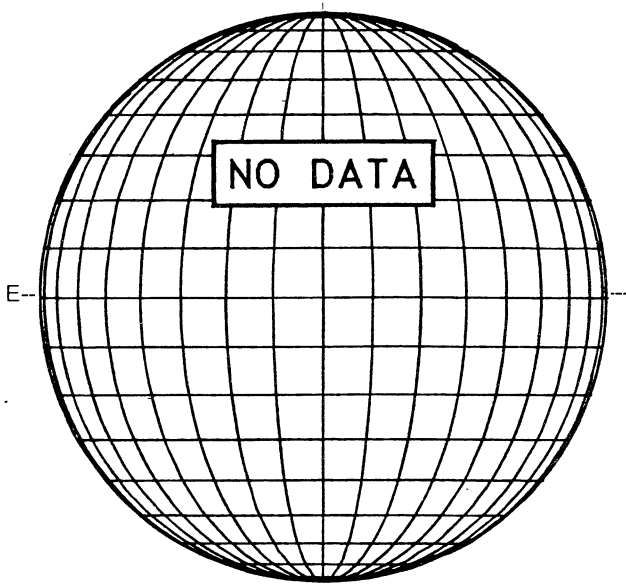


MT. WILSON MAGNETOGRAM

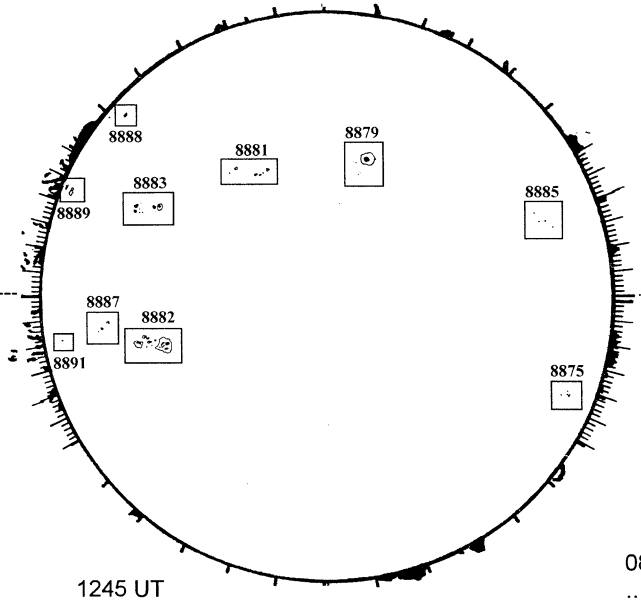


White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

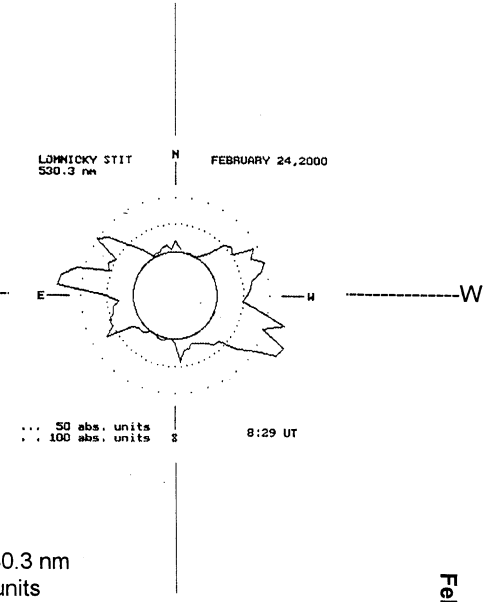


RAMEY SUNSPOT



1245 UT
0733 UT LOMN Prom S

LOMNICKY PEAK CORONA (1.04 Radii)----



0829 UT, 530.3 nm
.... 50 abs. units
. . 100 abs. units

S

83
Feb 0

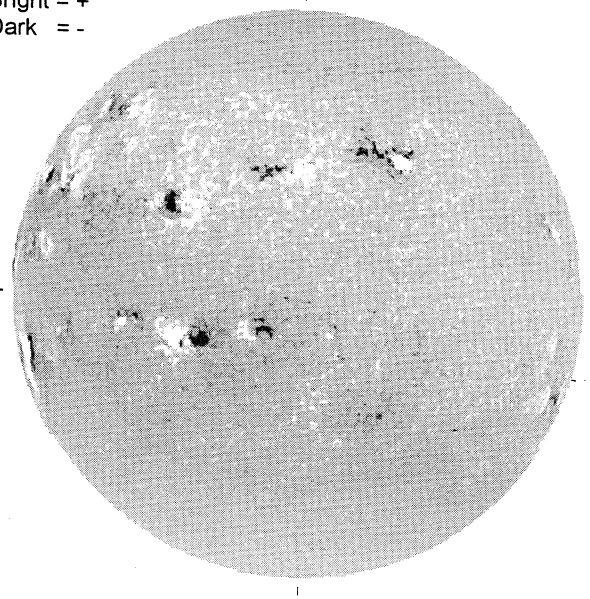
FEBRUARY 25, 2000 (P= -20.28, Bo = -7.14, Lo = 3.79)

KITT PEAK MAGNETOGRAM

N

868.8 nm

Bright = +
Dark = -



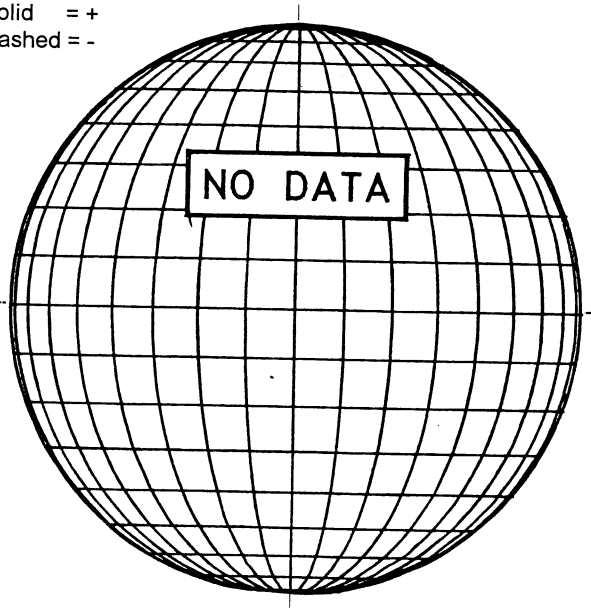
E-

1535 UT

STANFORD MAGNETOGRAM

N

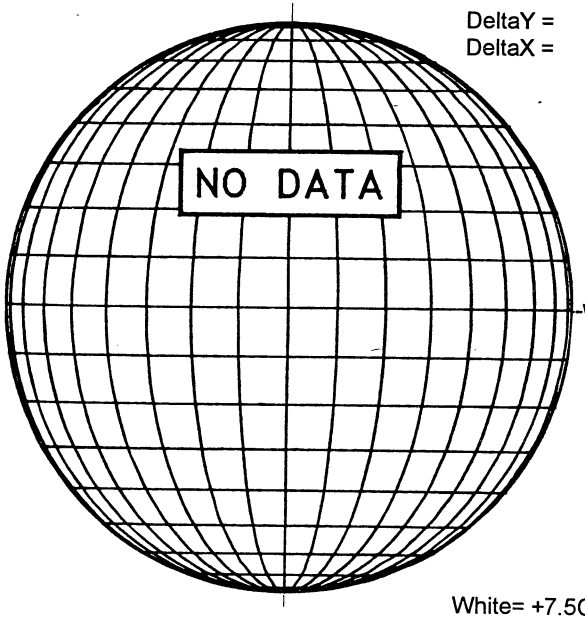
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

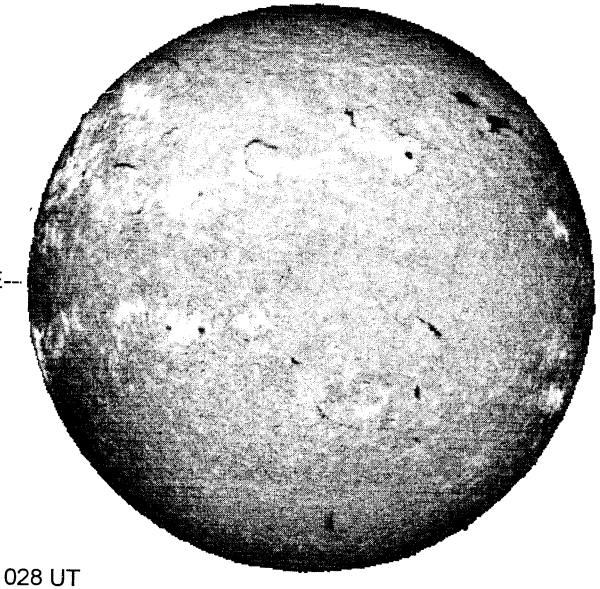
DeltaY =
DeltaX =



W

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

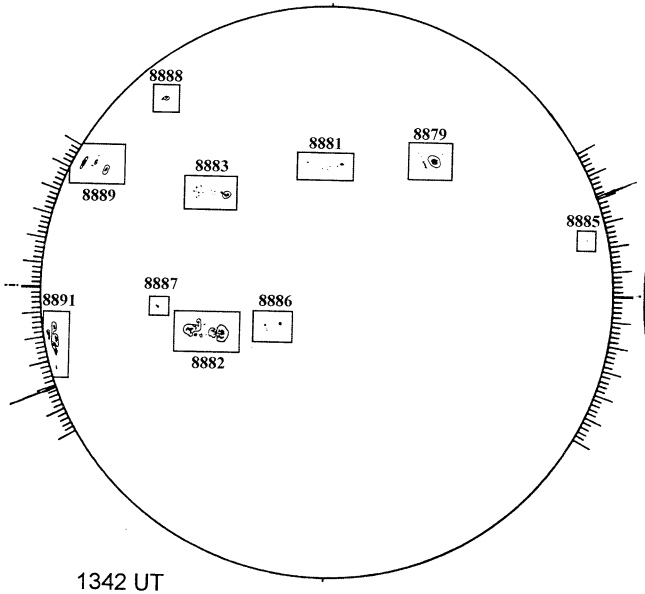


E--

1028 UT

S

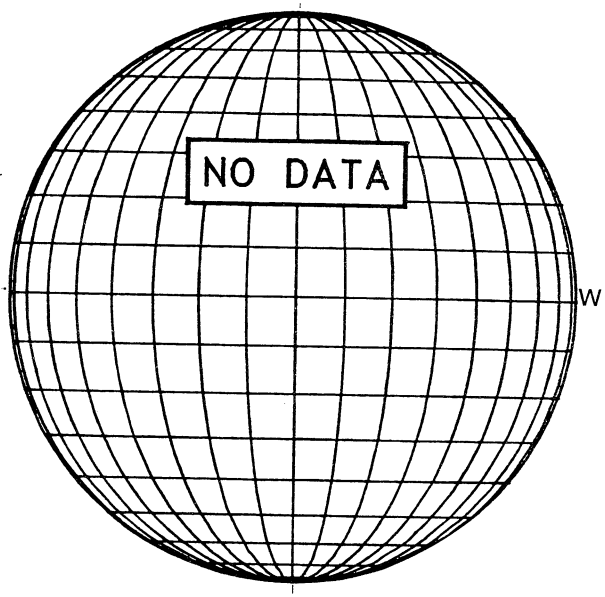
RAMEY SUNSPOT



1342 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)----



W

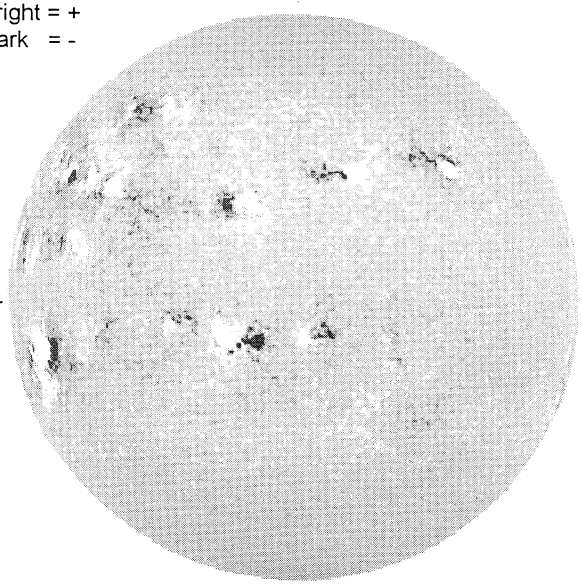
S

FEBRUARY 26, 2000 (P= -20.56, Bo = -7.16, Lo = 350.61)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -



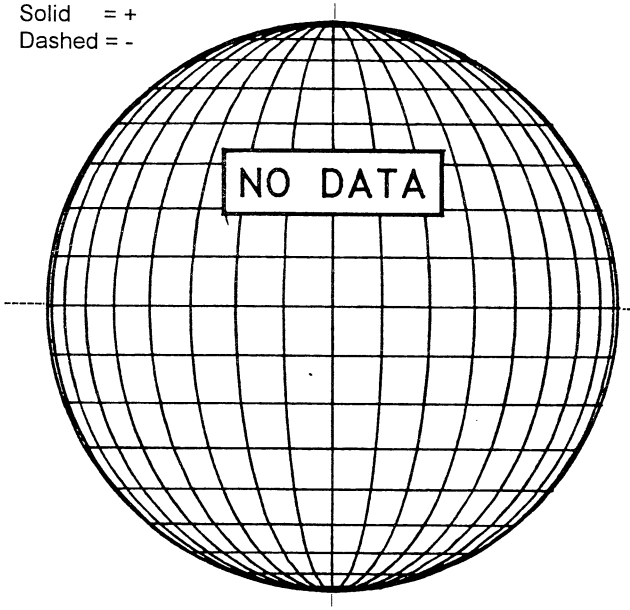
E--

1526 UT

STANFORD MAGNETOGRAM

N

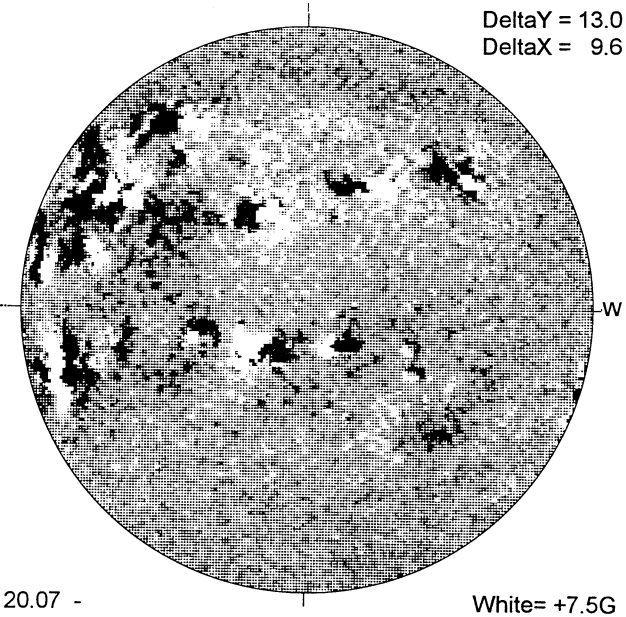
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

DeltaY = 13.0
DeltaX = 9.6

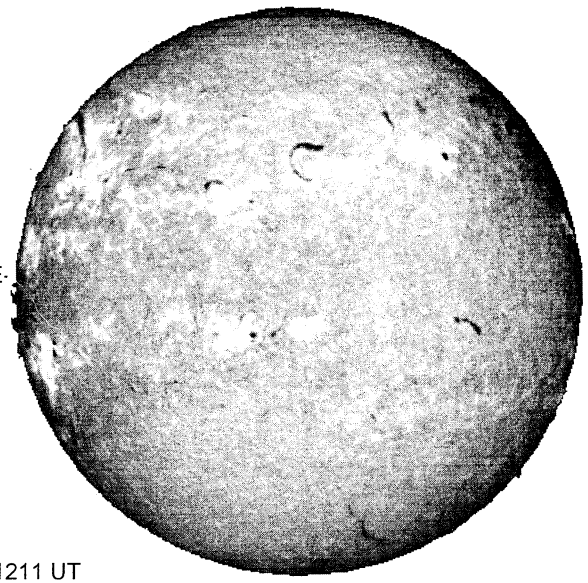


W

20.07 -
21.04 UT

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

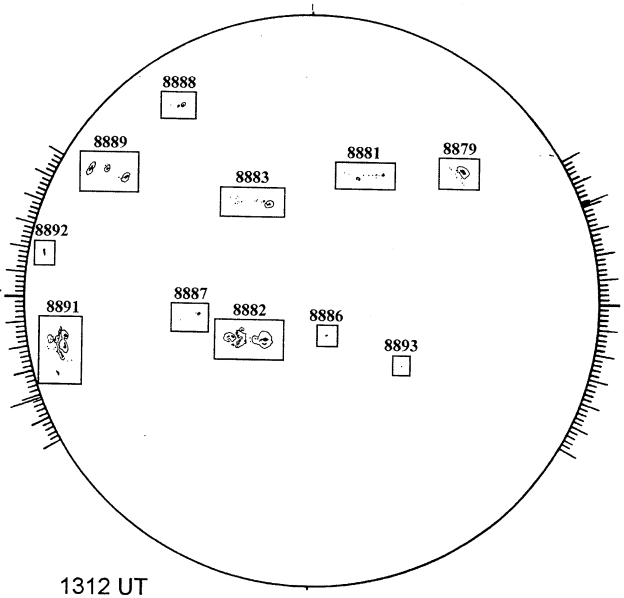


E-

1211 UT

S

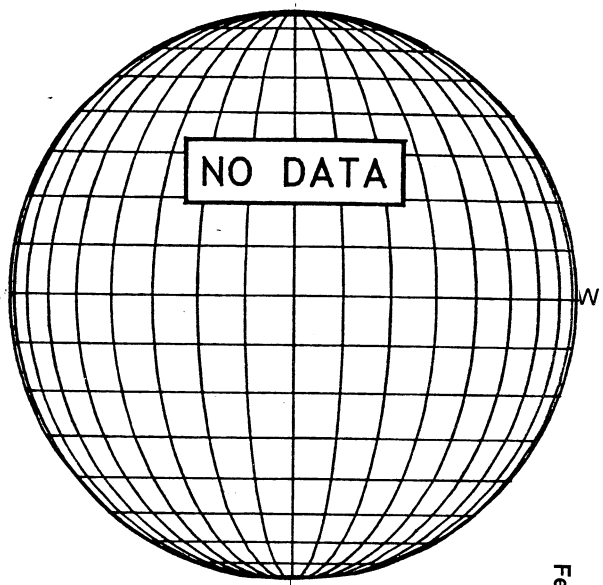
RAMEY SUNSPOT



1312 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)----



W

S

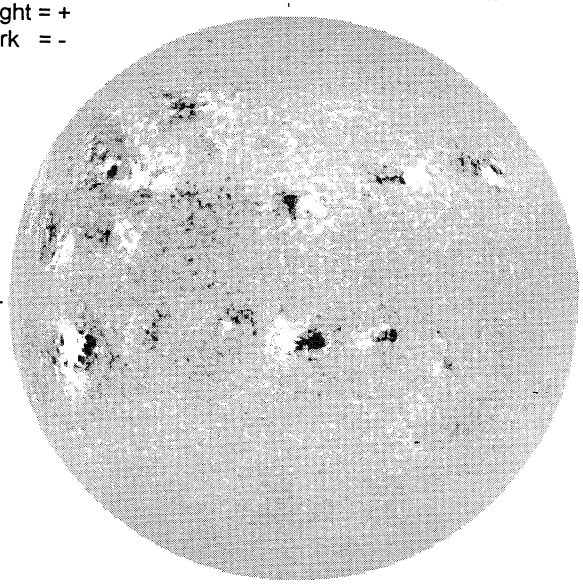
85
Feb 00

FEBRUARY 27, 2000 (P= -20.83, Bo = -7.18, Lo = 337.44)

KITT PEAK MAGNETOGRAM

N **868.8 nm**

Bright = +
Dark = -



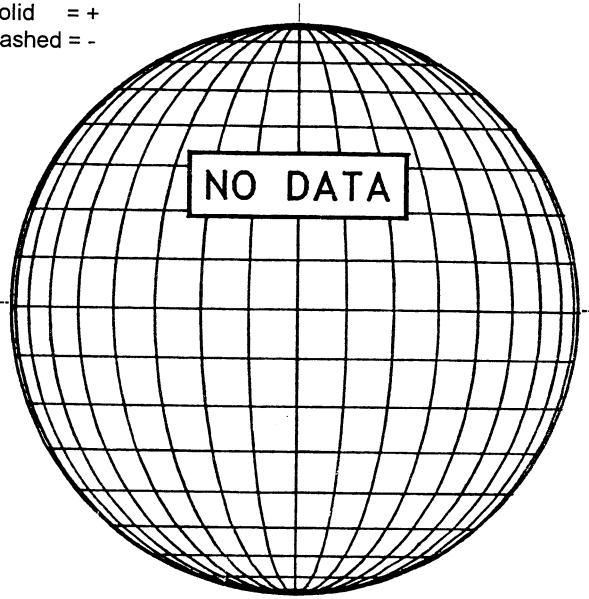
E---

1500 UT

STANFORD MAGNETOGRAM

N

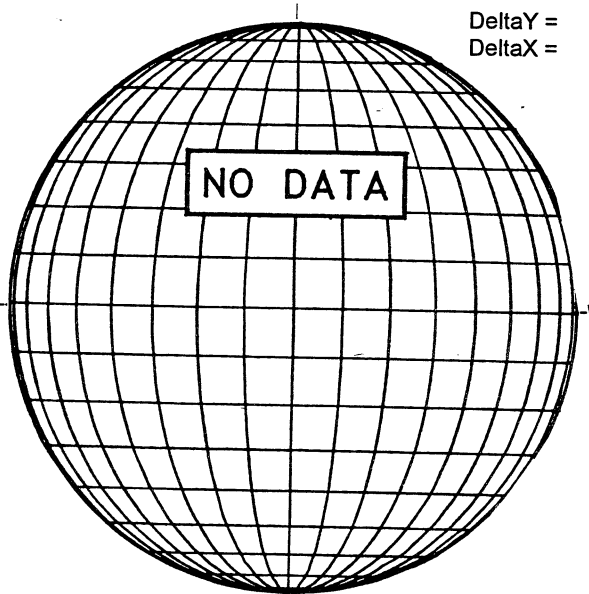
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

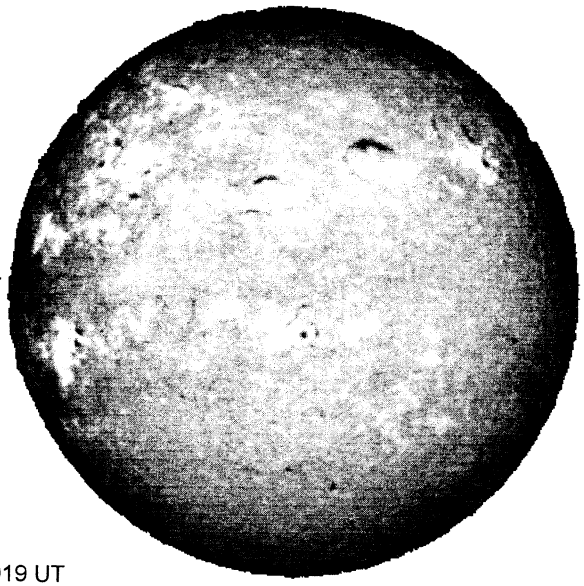
DeltaY =
DeltaX =



-W

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

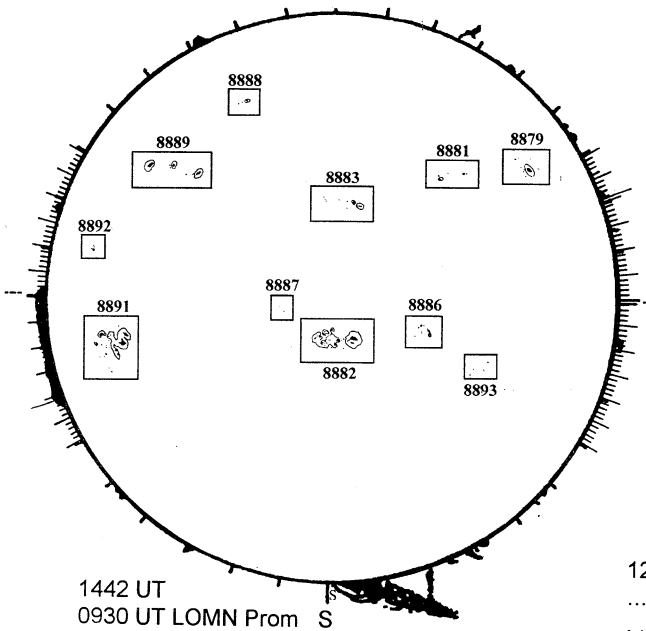


E--

0919 UT

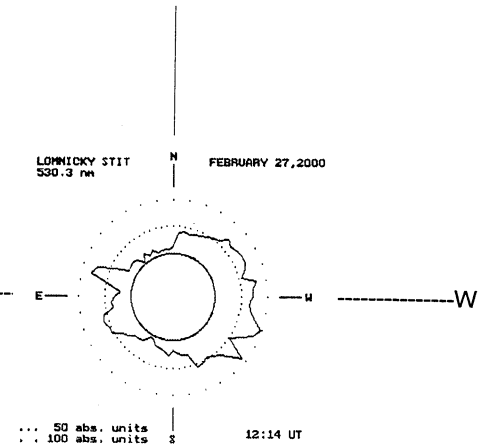
S

RAMEY SUNSPOT



1442 UT
0930 UT LOMN Prom S

LOMNICKY PEAK CORONA (1.04 Radii)----



1214 UT, 530.3 nm
.... 50 abs. units
. . 100 abs. units

S

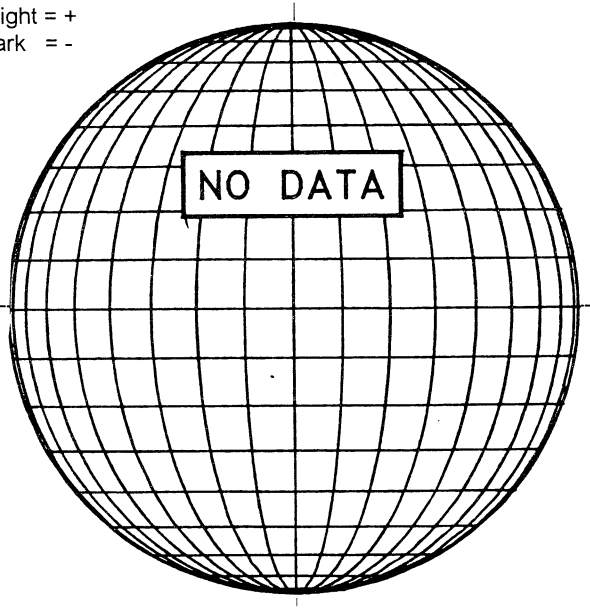
FEBRUARY 28, 2000 (P= -21.10, Bo = -7.20, Lo = 324.27)

KITT PEAK MAGNETOGRAM

N

868.8 nm

Bright = +
Dark = -

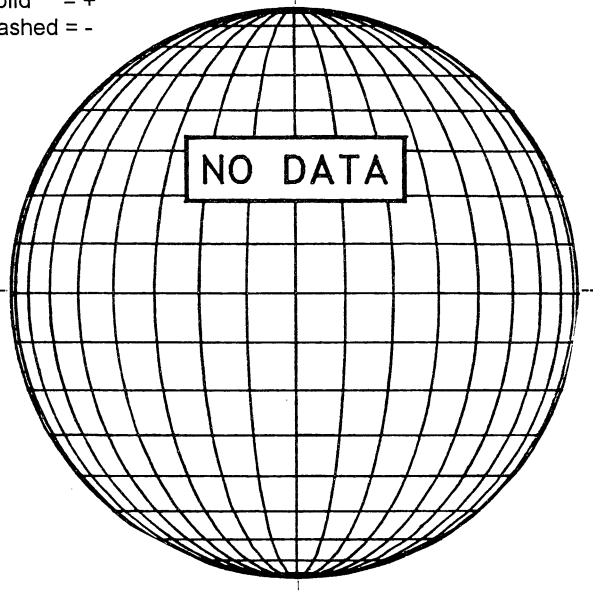


E--

STANFORD MAGNETOGRAM

N

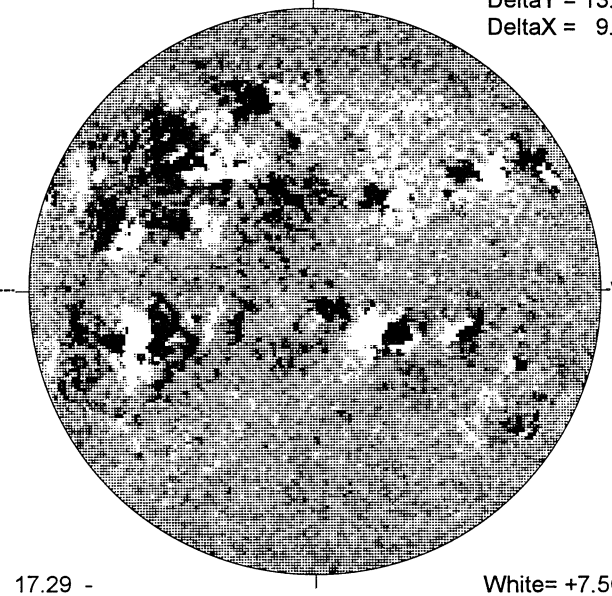
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

N

DeltaY = 13.0
DeltaX = 9.6

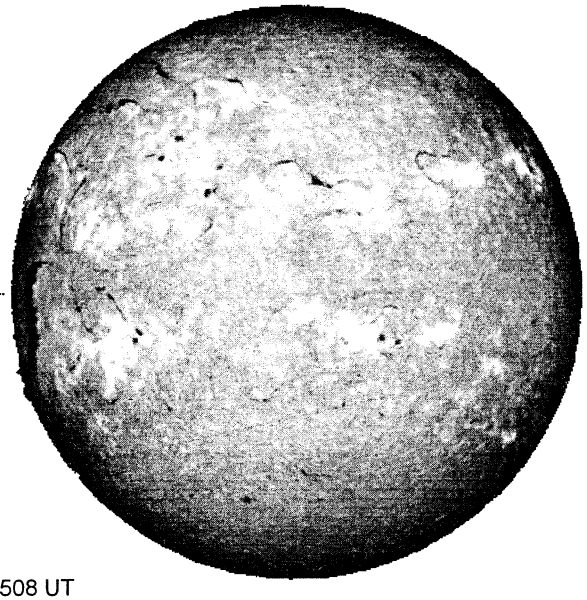


-W

17.29 -
18.25 UT

White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

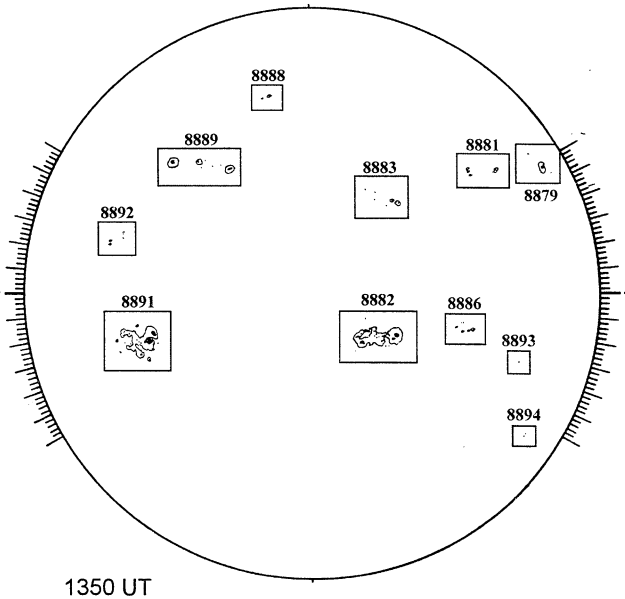


E--

1508 UT

S

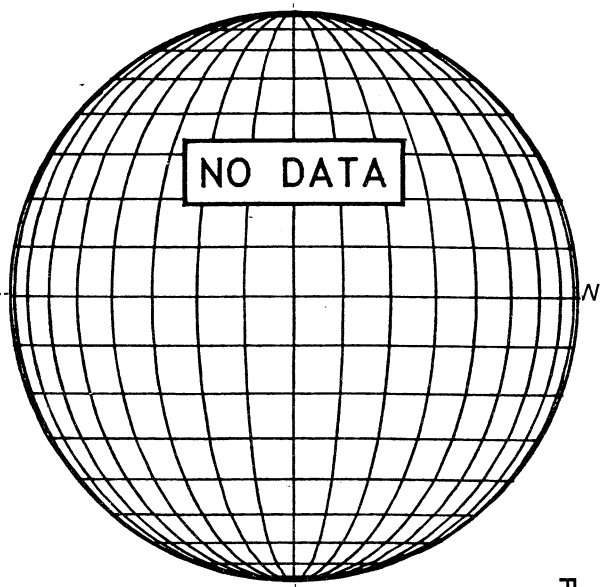
RAMEY SUNSPOT



1350 UT

S

SACRAMENTO PEAK CORONA (1.15 Radii)----



W

S

87
Feb 0

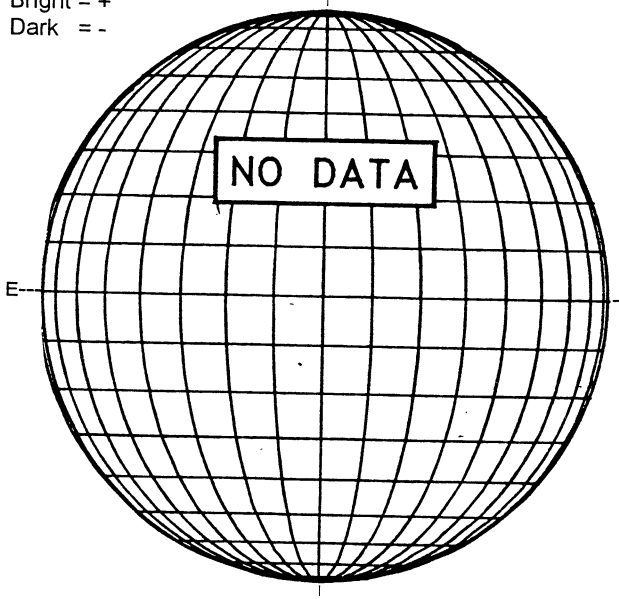
FEBRUARY 29, 2000 (P= -21.36, Bo = -7.21, Lo = 311.10)

KITT PEAK MAGNETOGRAM

N

868.8 nm

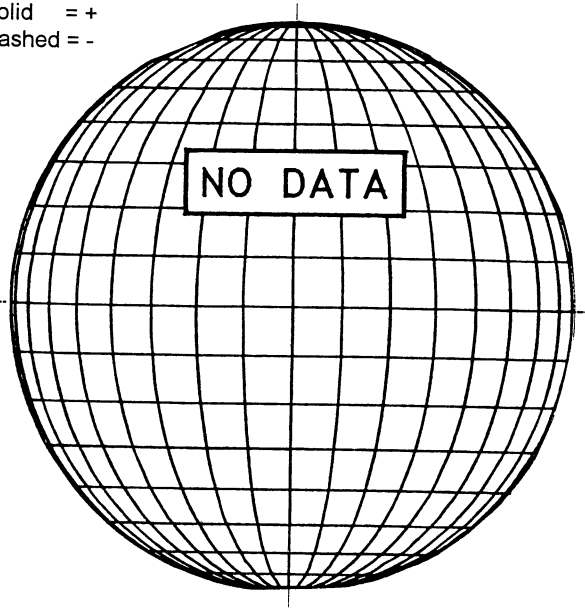
Bright = +
Dark = -



STANFORD MAGNETOGRAM

N

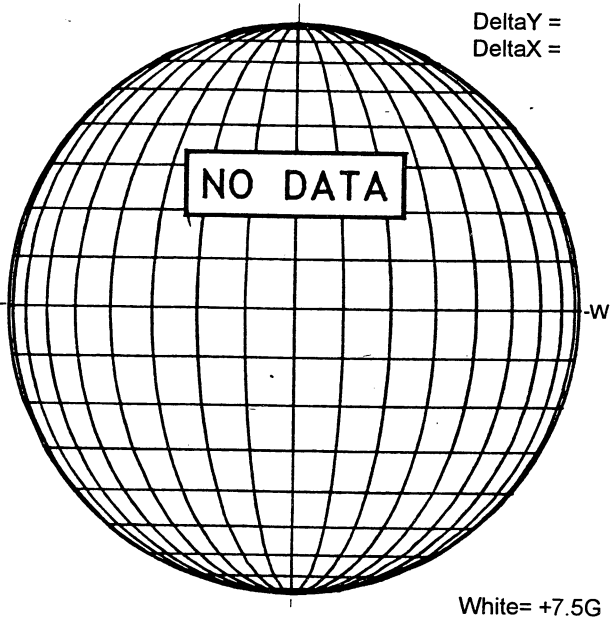
Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

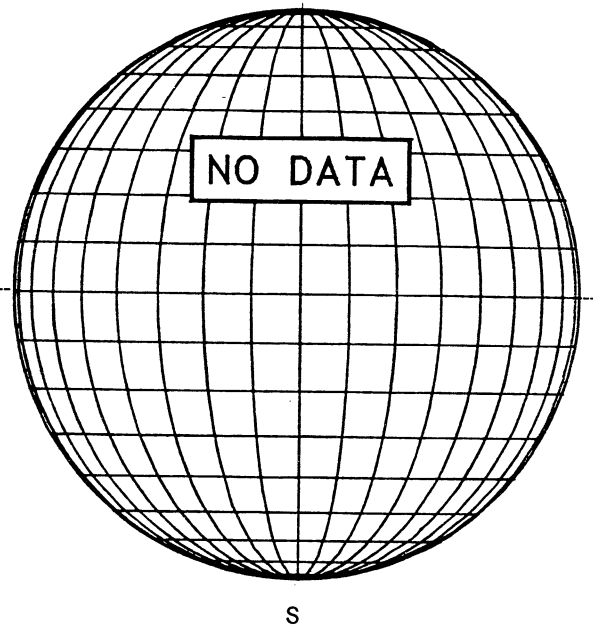
N

DeltaY =
DeltaX =

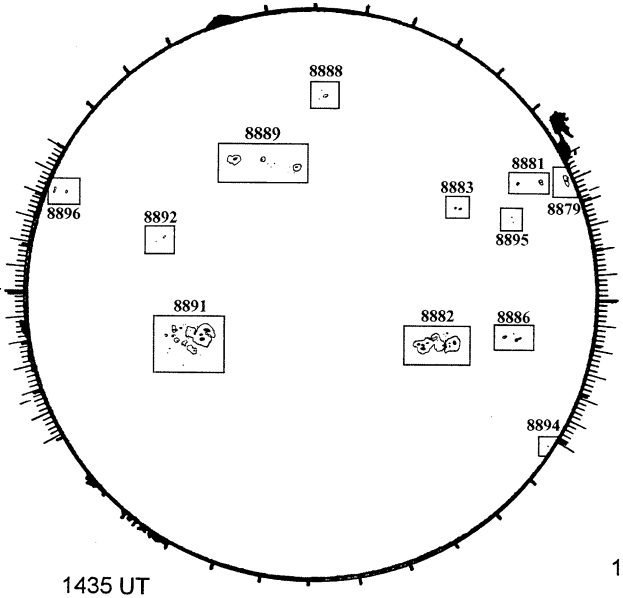


White= +7.5G
Black = -7.5G

MEUDON H-ALPHA

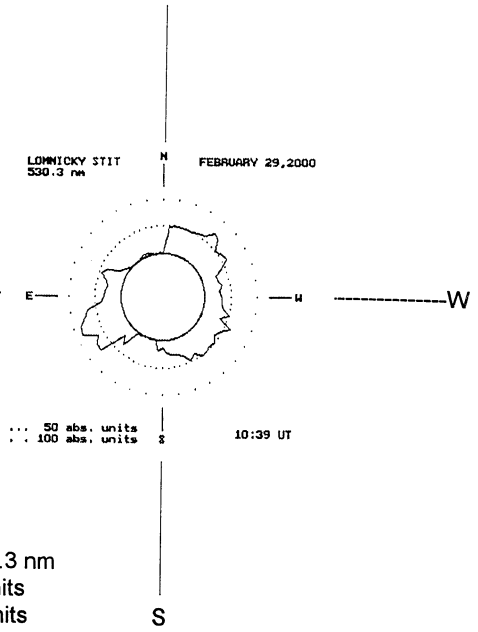


RAMEY SUNSPOT



1435 UT
0755 UT LOMN Prom S

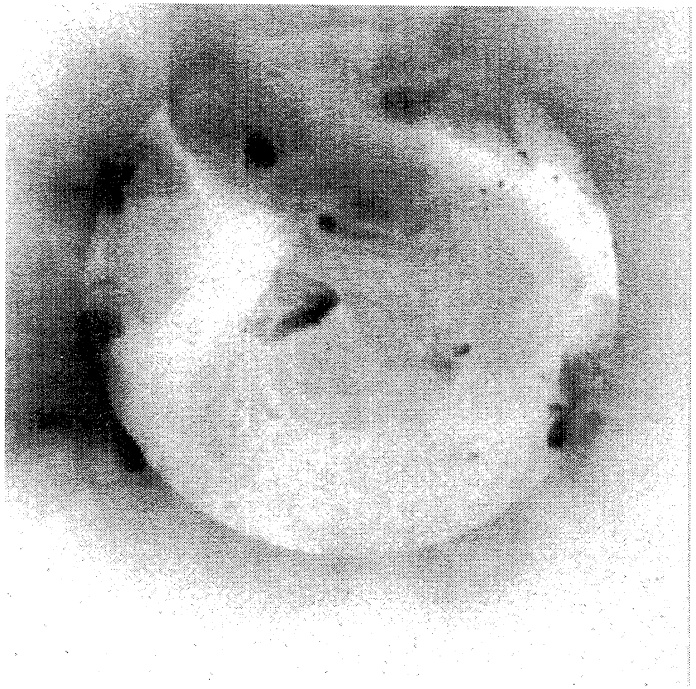
LOMNICKY PEAK CORONA (1.04 Radii)----



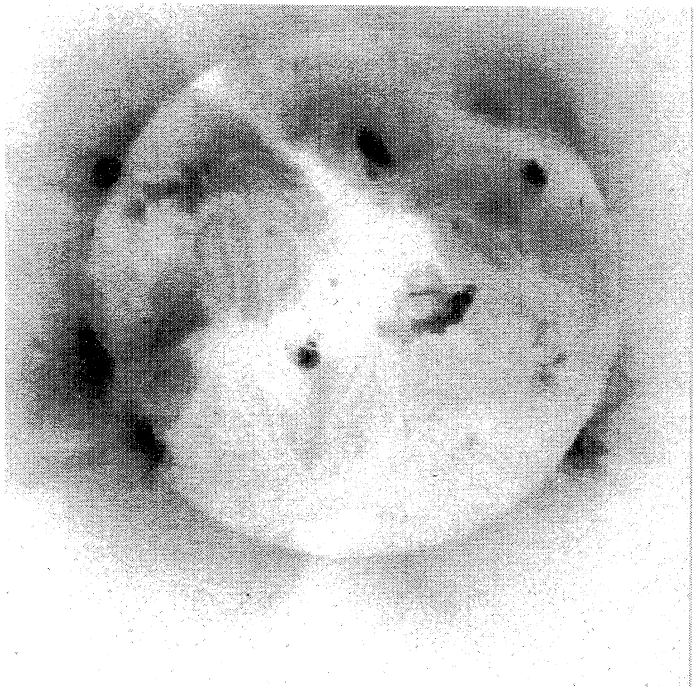
1039 UT, 530.3 nm
.... 50 abs. units
. . 100 abs. units

YOHKOH SOFT X-RAY TELESCOPE IMAGES

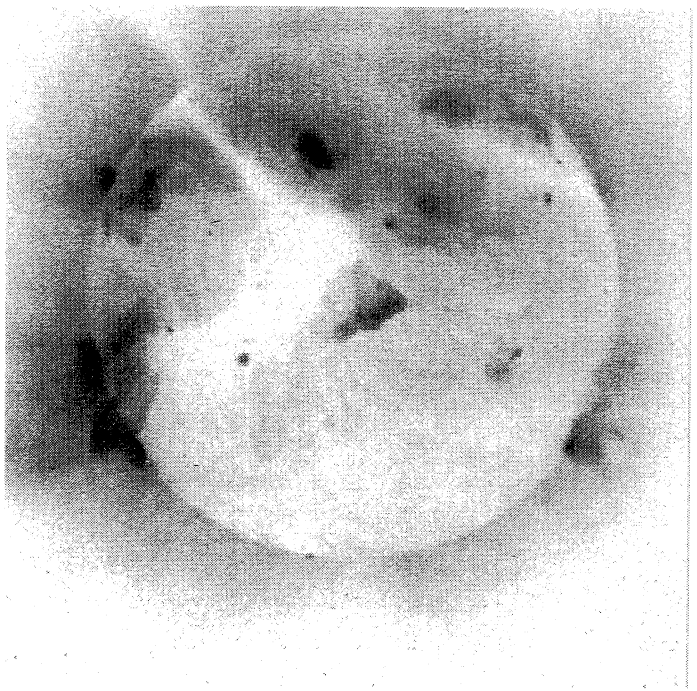
February 2000



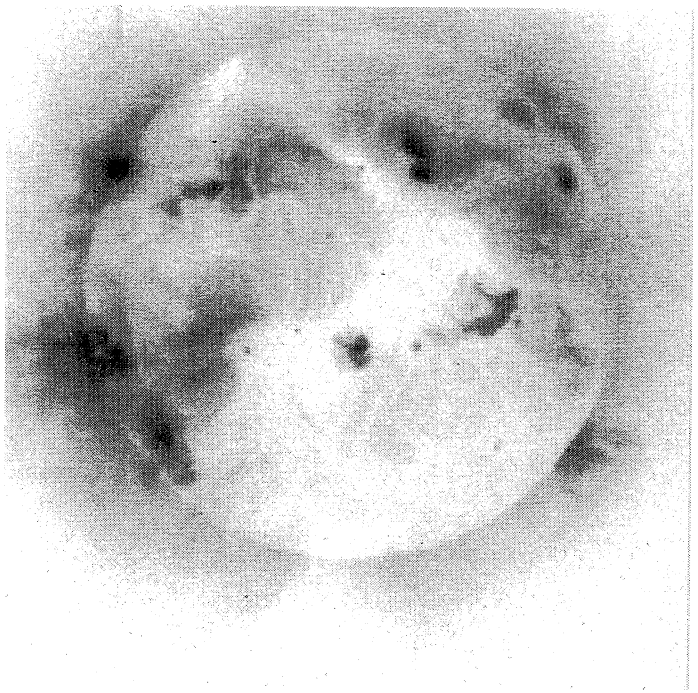
Day 1
11:56:03 UT



Day 3
14:10:43 UT



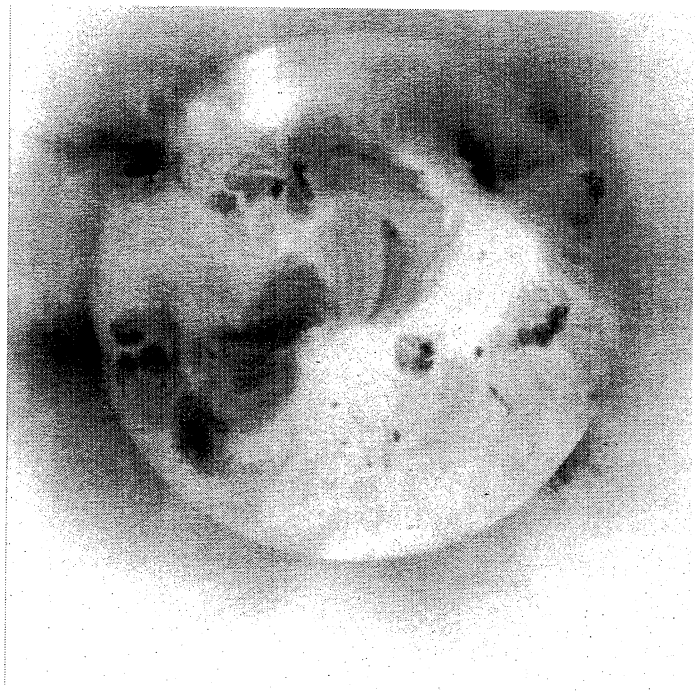
Day 2
12:24:03 UT



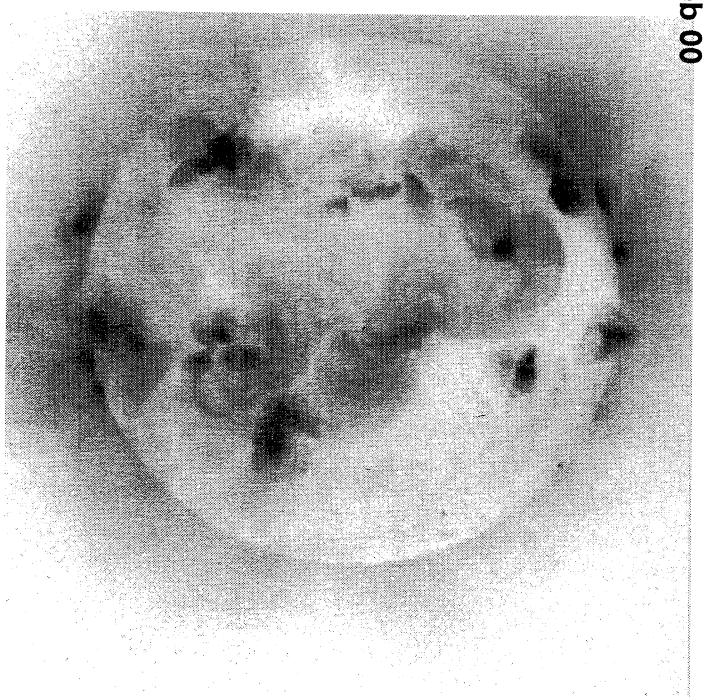
Day 4
10:53:07 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

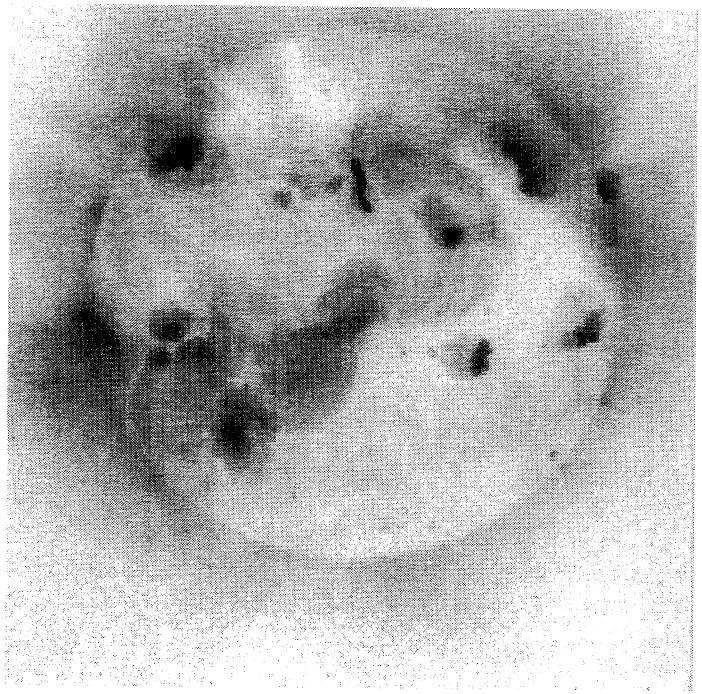
February
2000



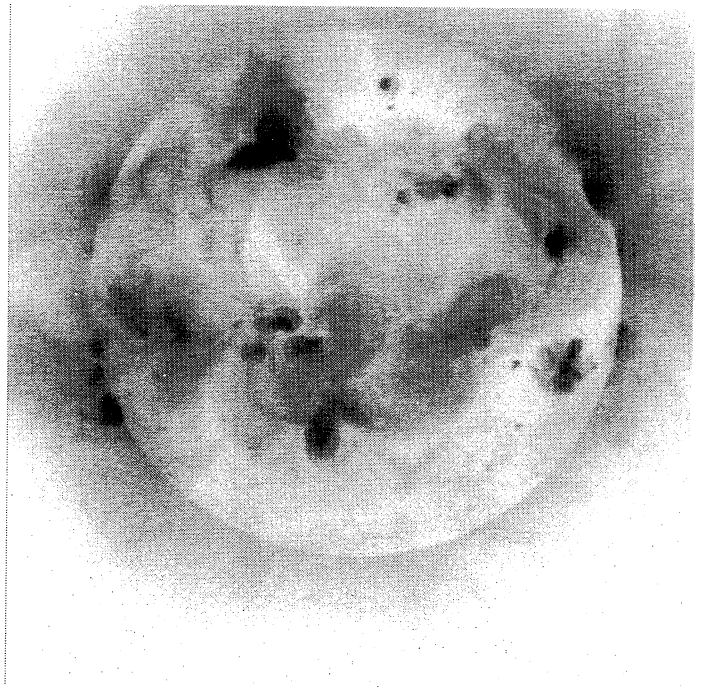
Day 5
11:49:28 UT



Day 7
11:56:34 UT



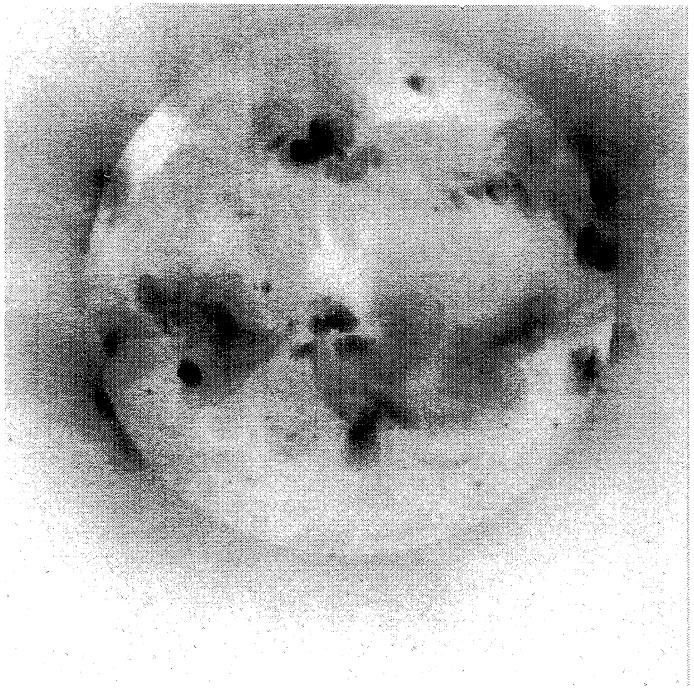
Day 6
11:57:38 UT



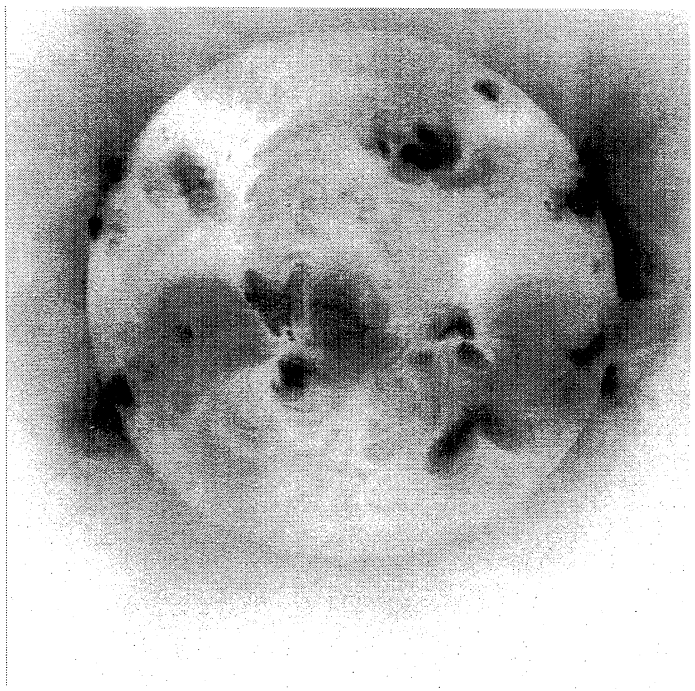
Day 8
12:12:04 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

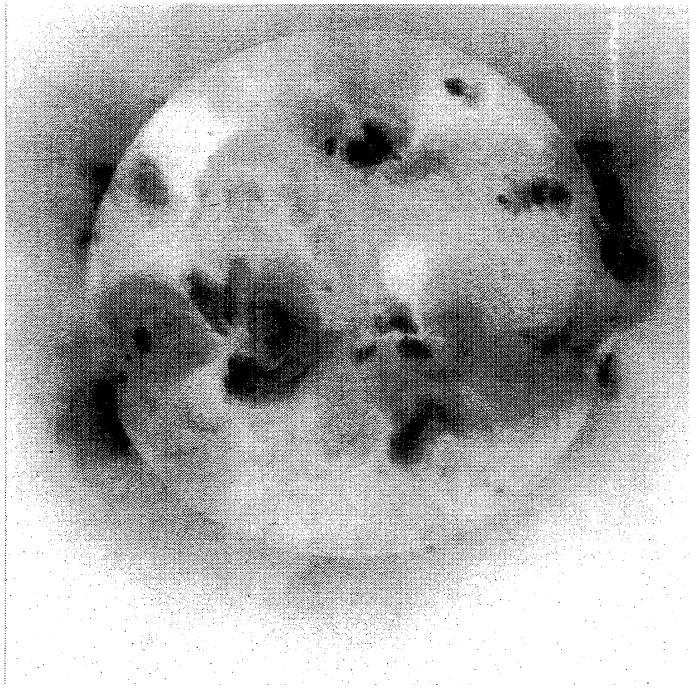
February 2000



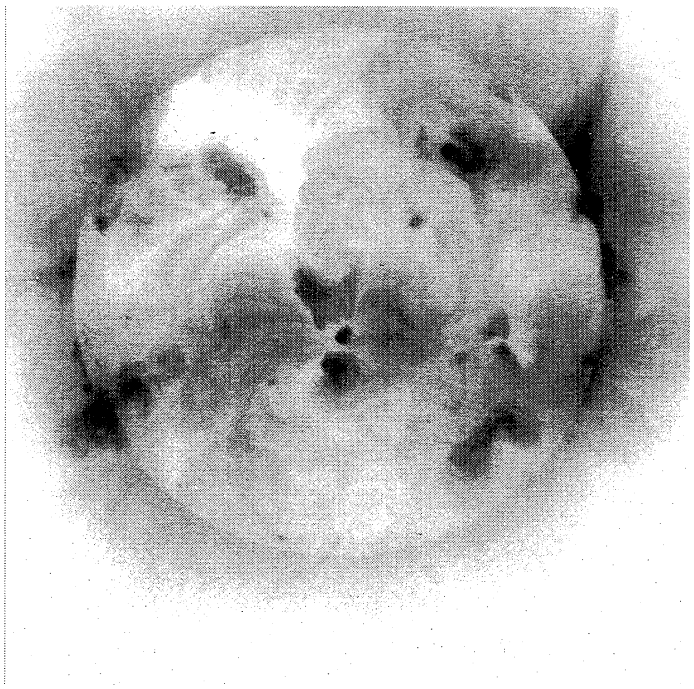
Day 9
12:02:58 UT



Day 11
11:14:55 UT



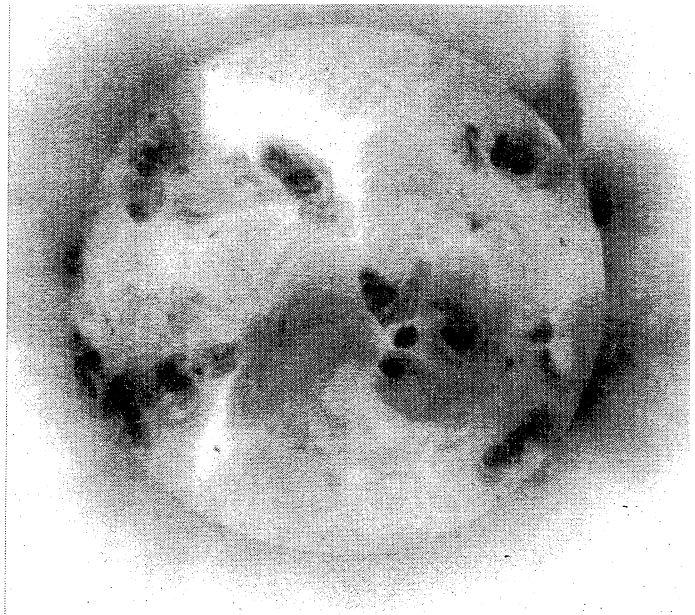
Day 10
11:52:09 UT



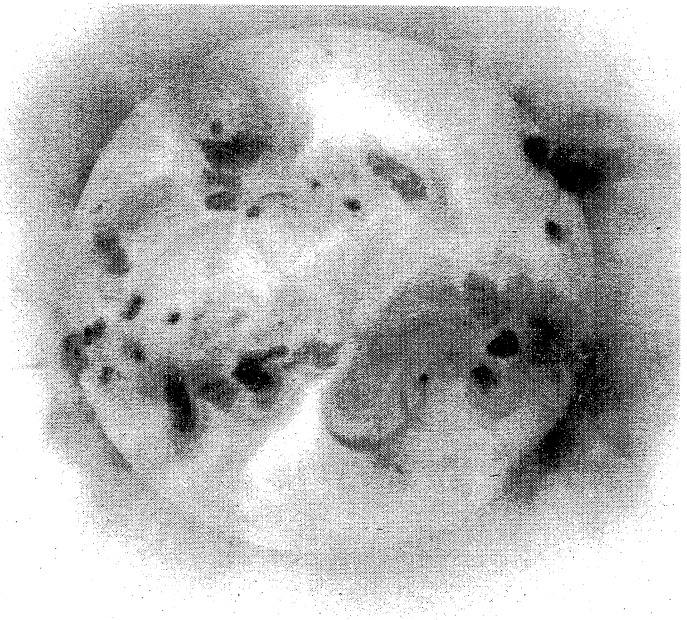
Day 12
11:25:11 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

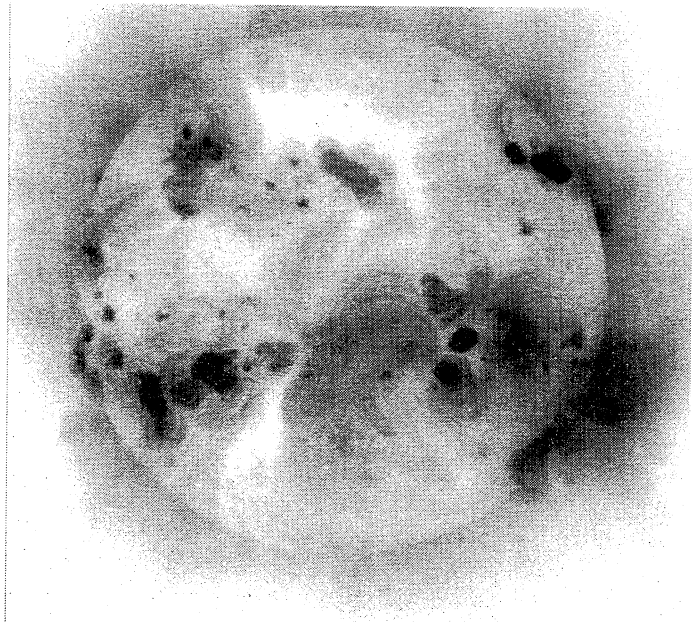
February
2000



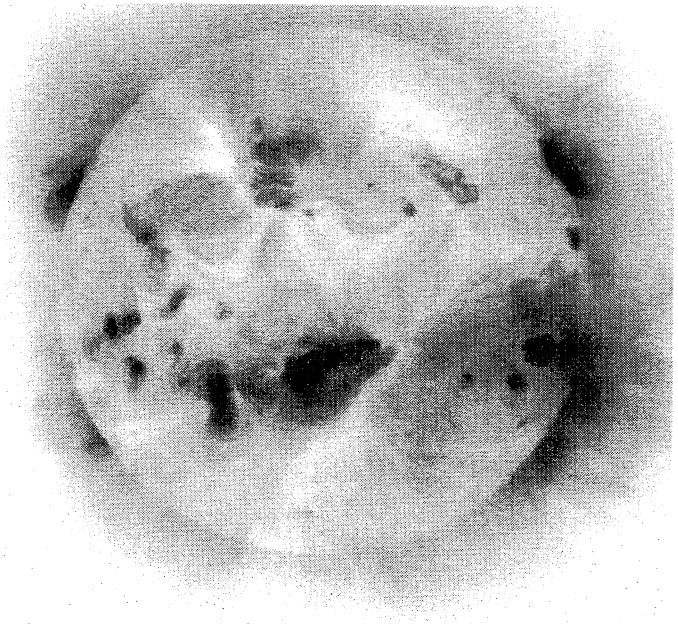
Day 13
11:40:31 UT



Day 15
11:15:46 UT



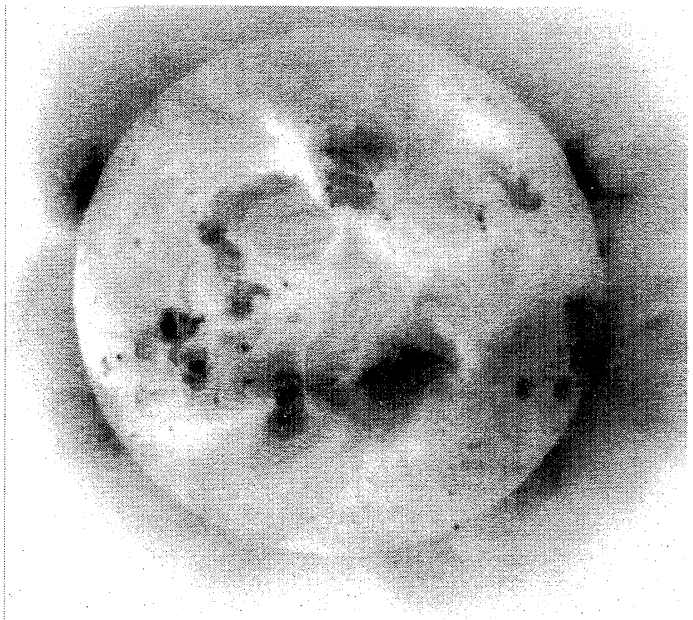
Day 14
11:46:19 UT



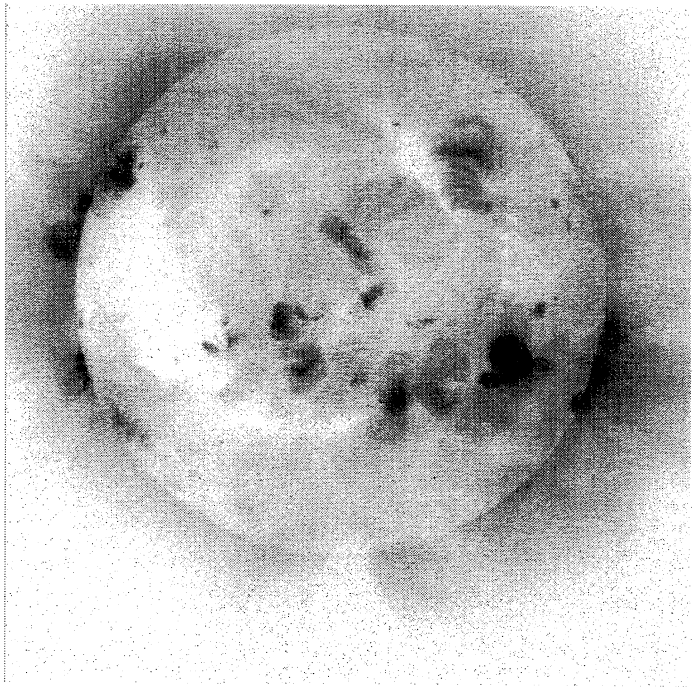
Day 16
12:03:04 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

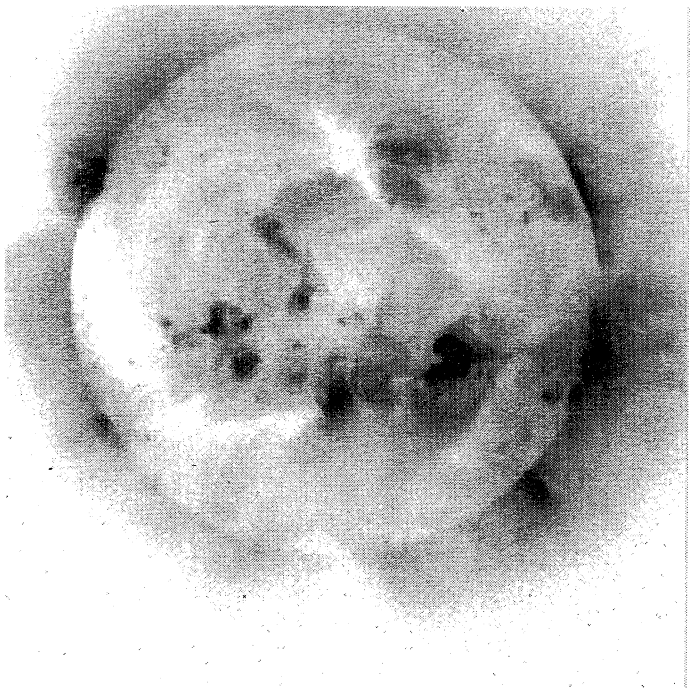
February 2000



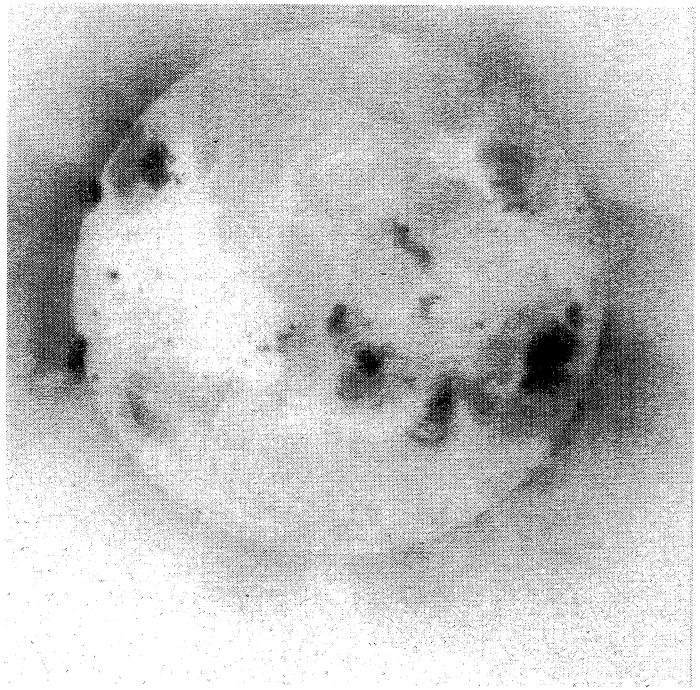
Day 17
12:00:52 UT



Day 19
12:36:49 UT



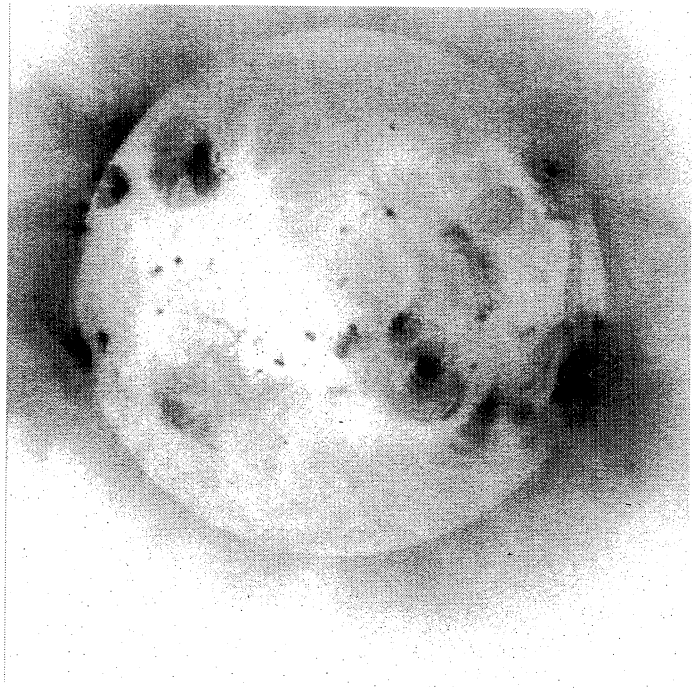
Day 18
11:54:02 UT



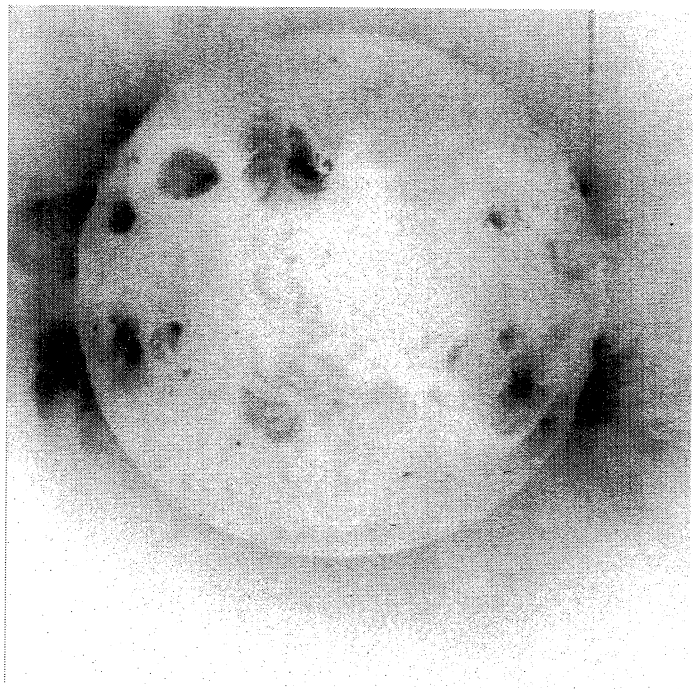
Day 20
12:07:59 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

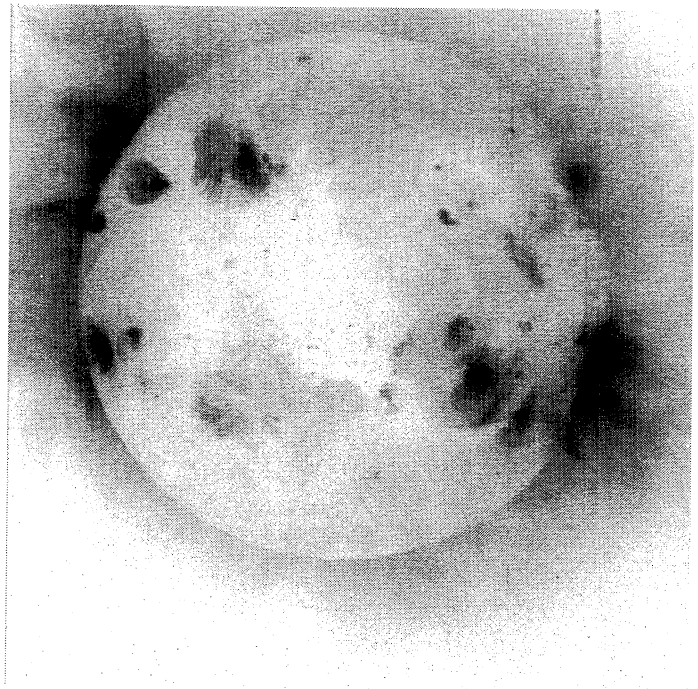
February
2000



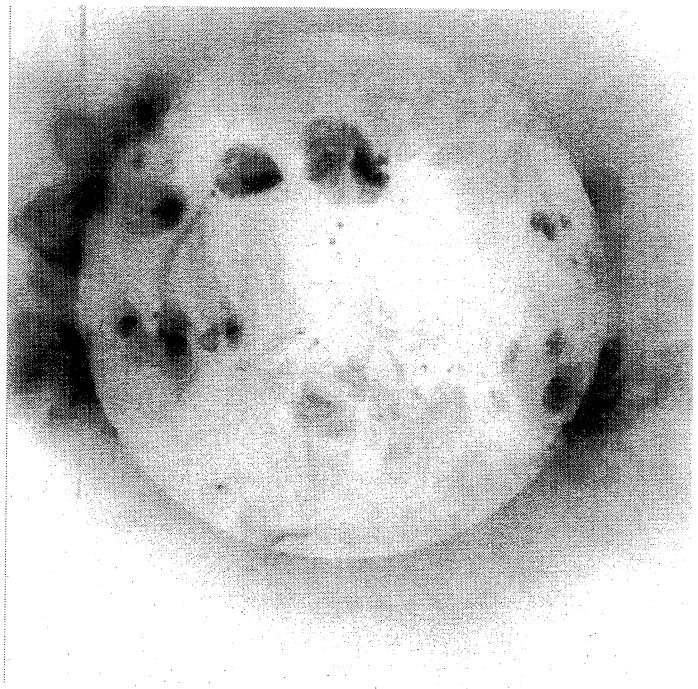
Day 21
12:20:09 UT



Day 23
11:00:45 UT



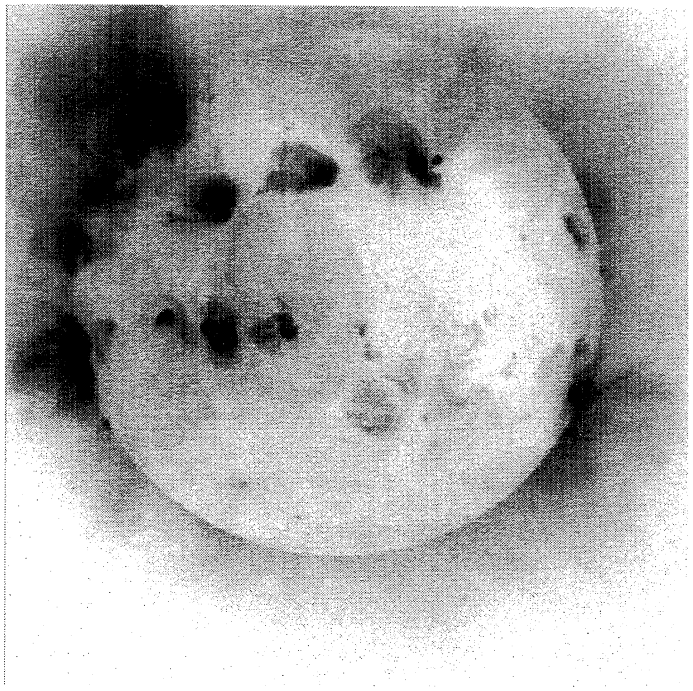
Day 22
10:03:23 UT



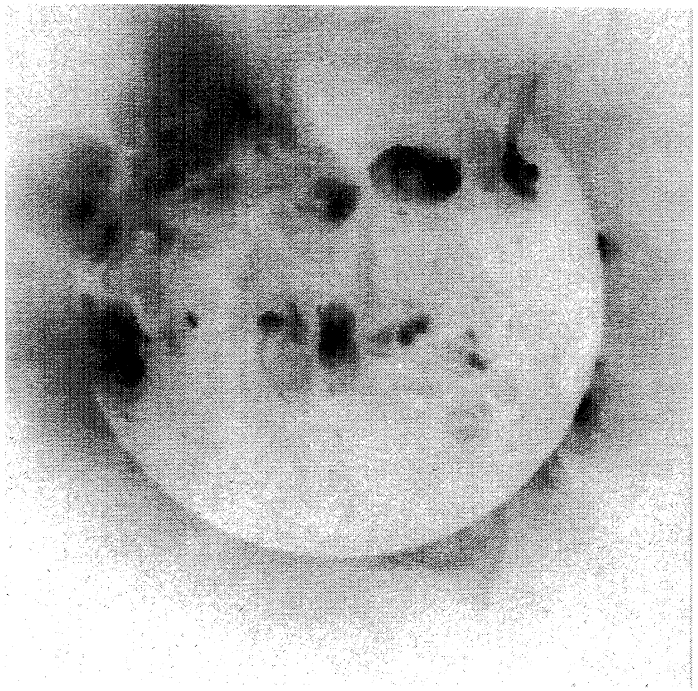
Day 24
11:58:26 UT

YOHKOH SOFT X-RAY TELESCOPE IMAGES

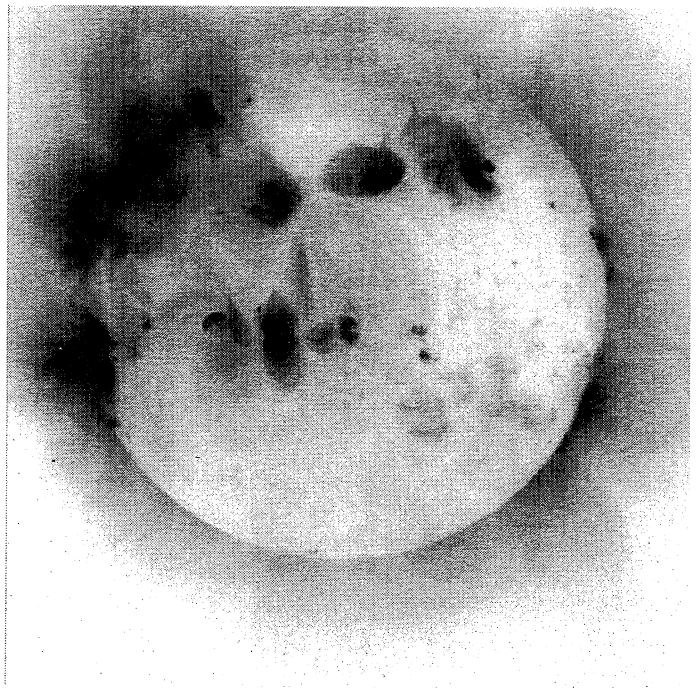
February 2000



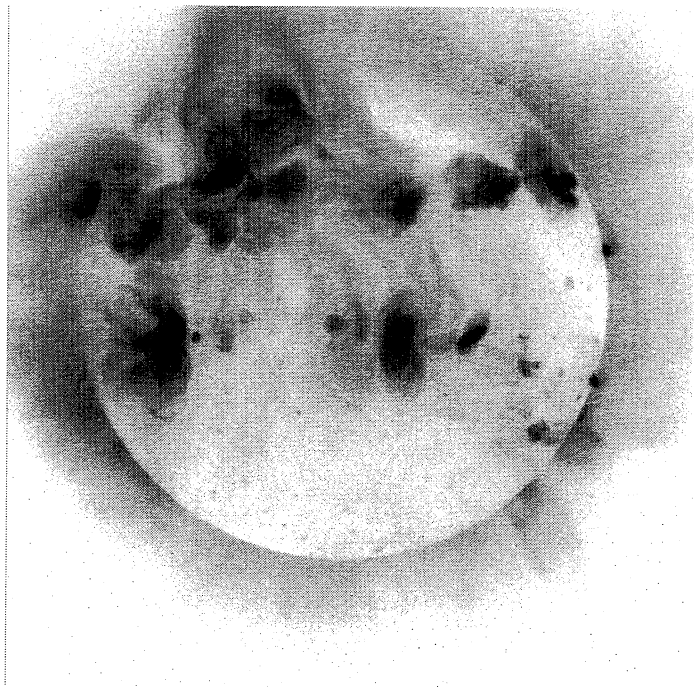
Day 25
13:06:04 UT



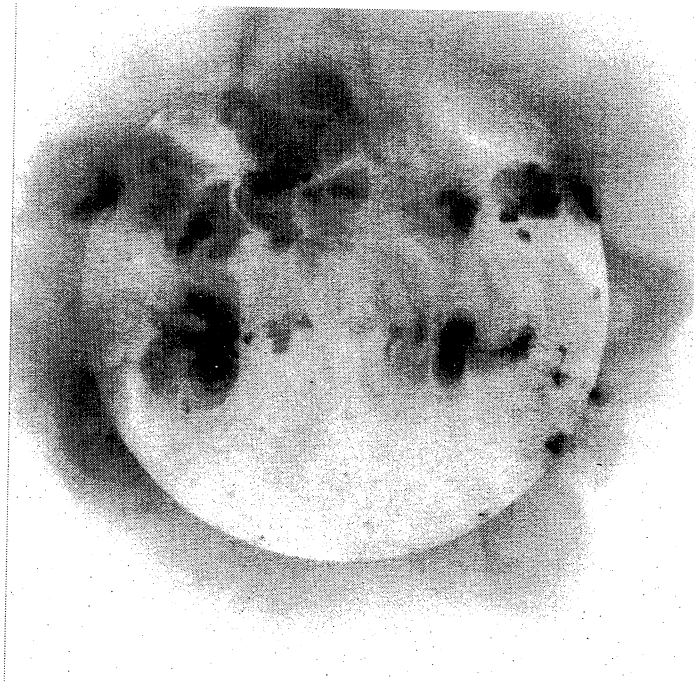
Day 27
12:25:02 UT



Day 26
12:12:36 UT



Day 28
12:37:48 UT

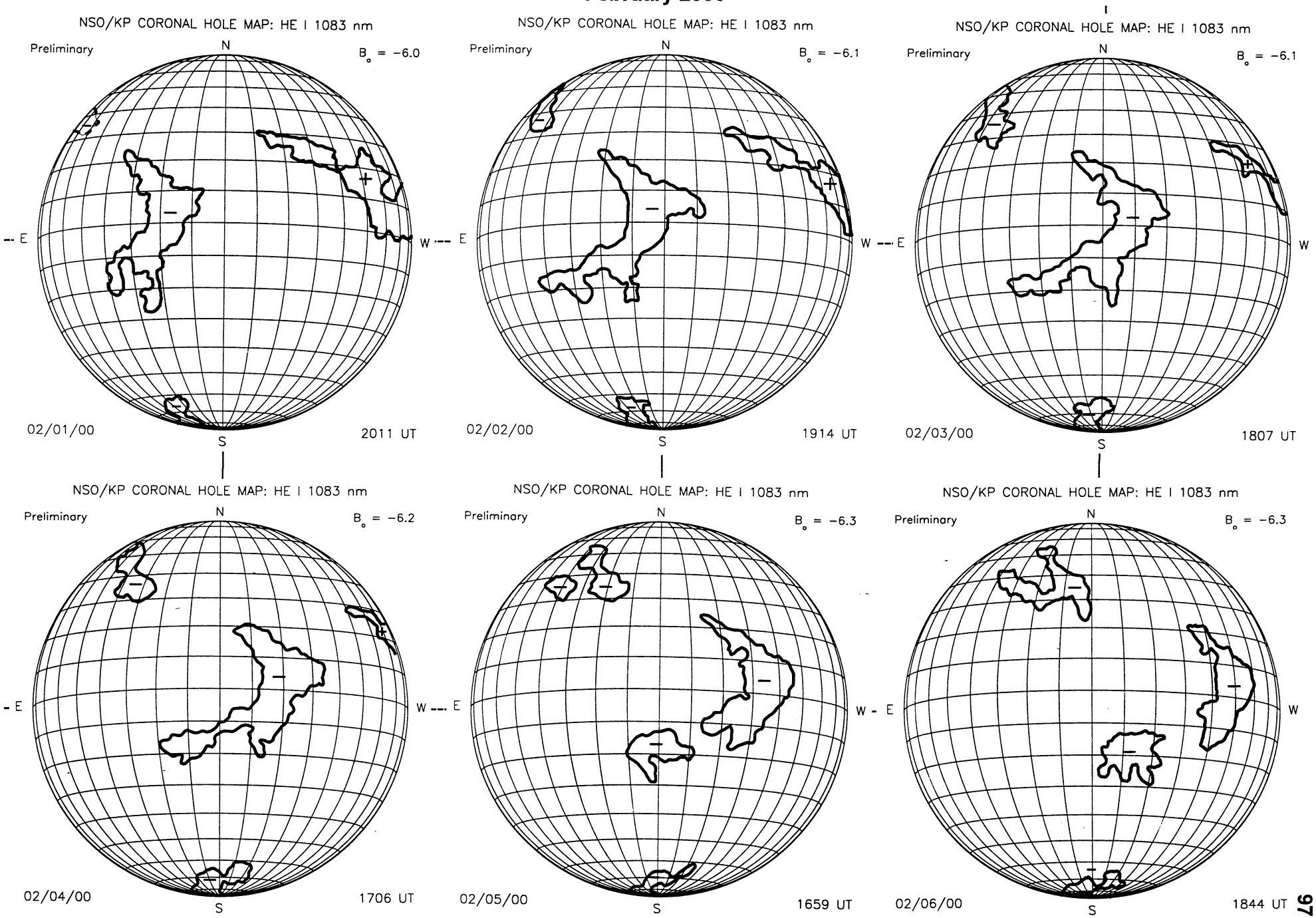


YOHKOH SOFT X-RAY TELESCOPE IMAGES

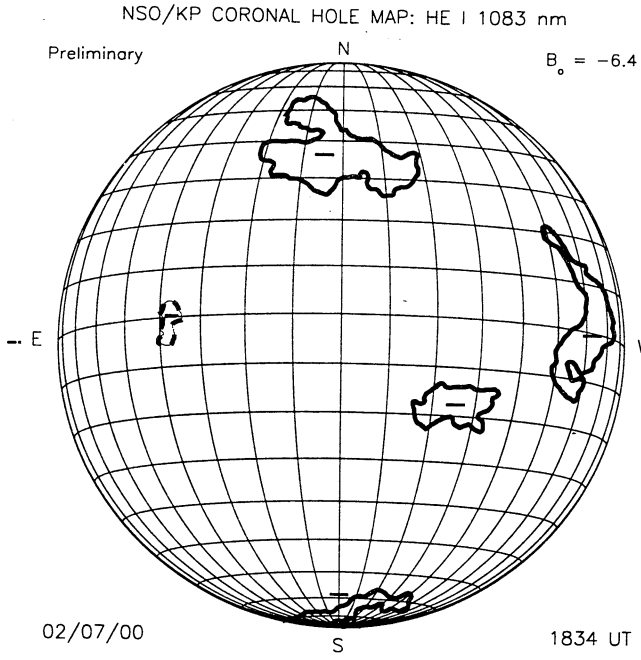
February
2000

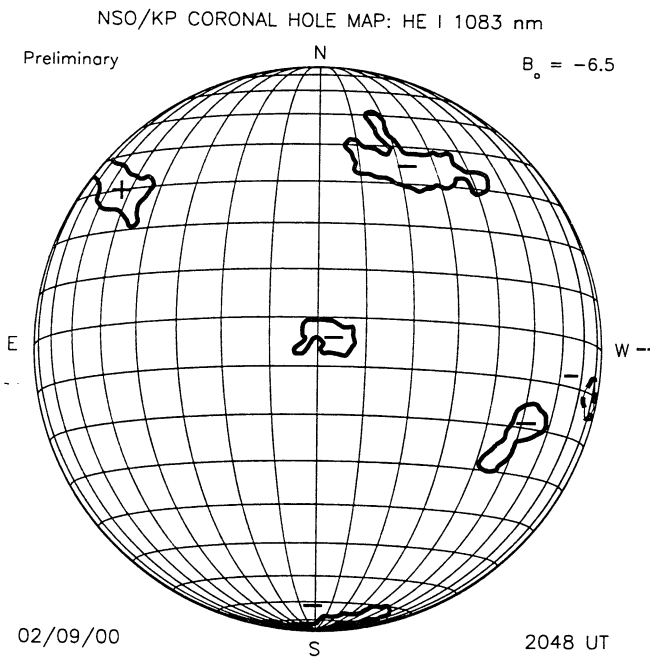
Day 29
11:15:51 UT

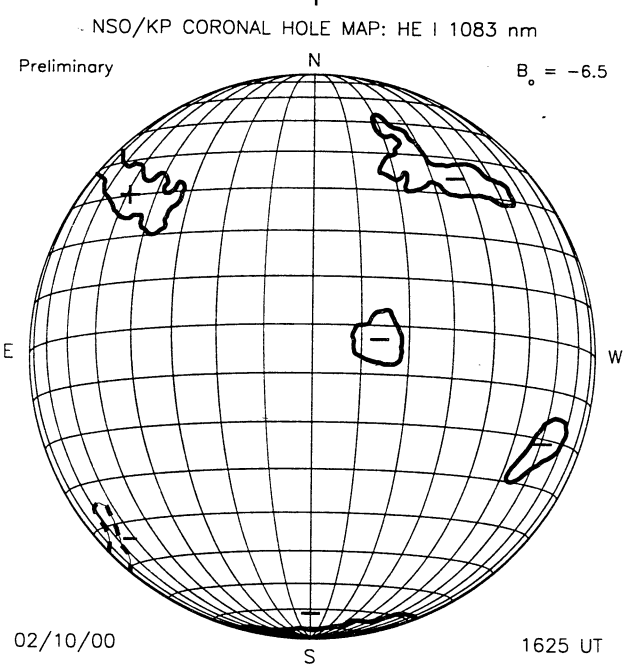
KITT PEAK CORONAL HOLE MAPS HE I 1083 nm
February 2000

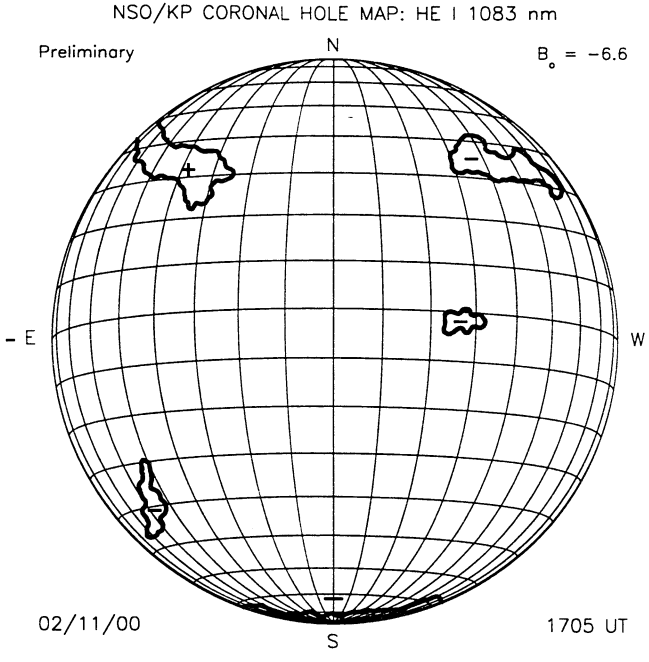


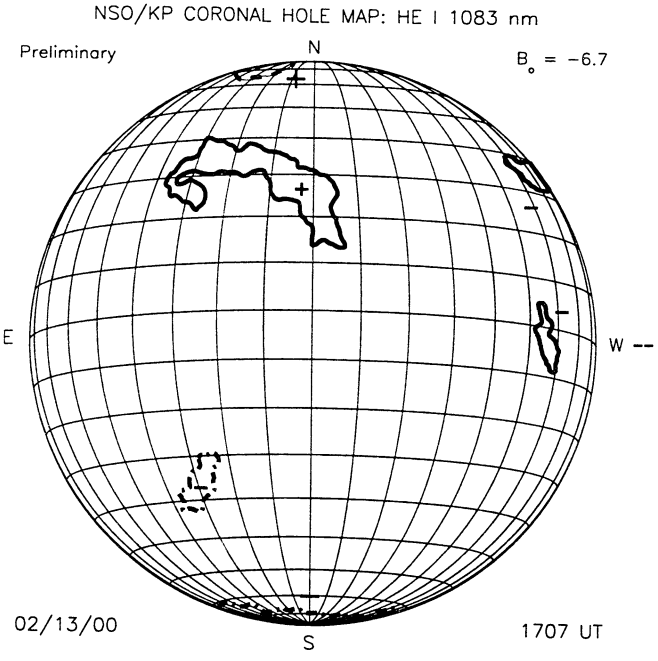
KITT PEAK CORONAL HOLE MAPS HE I 1083 nm
February 2000

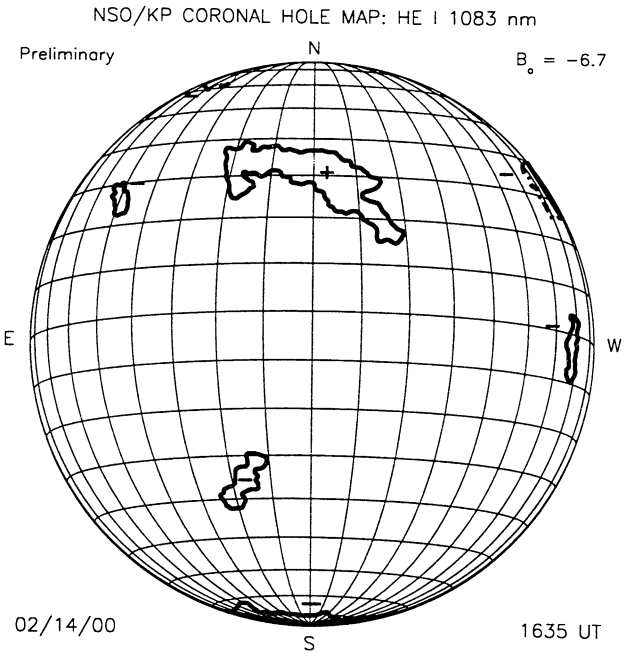




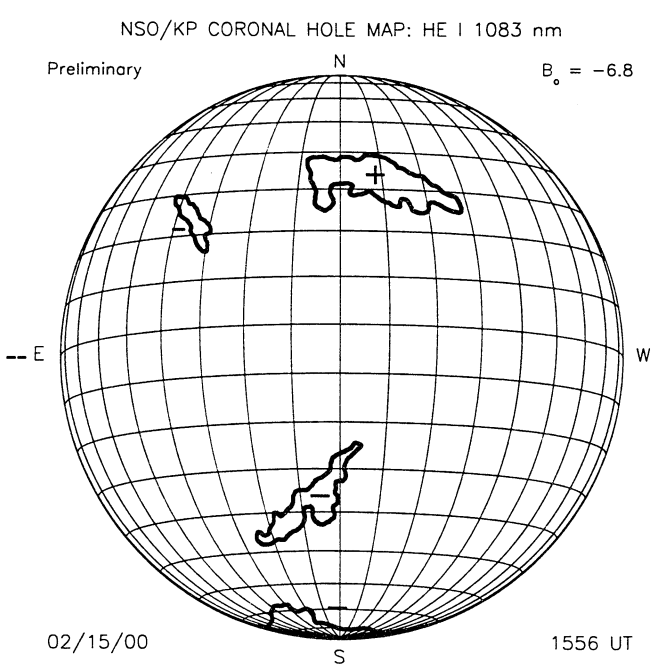


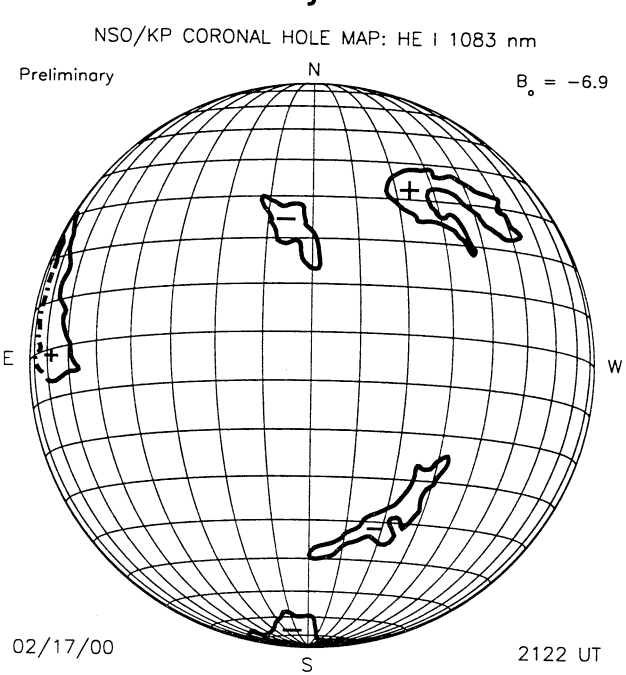


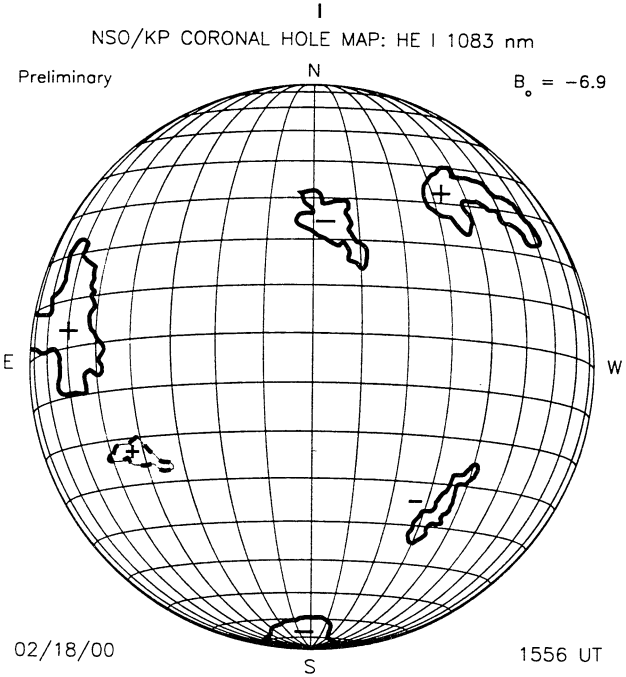


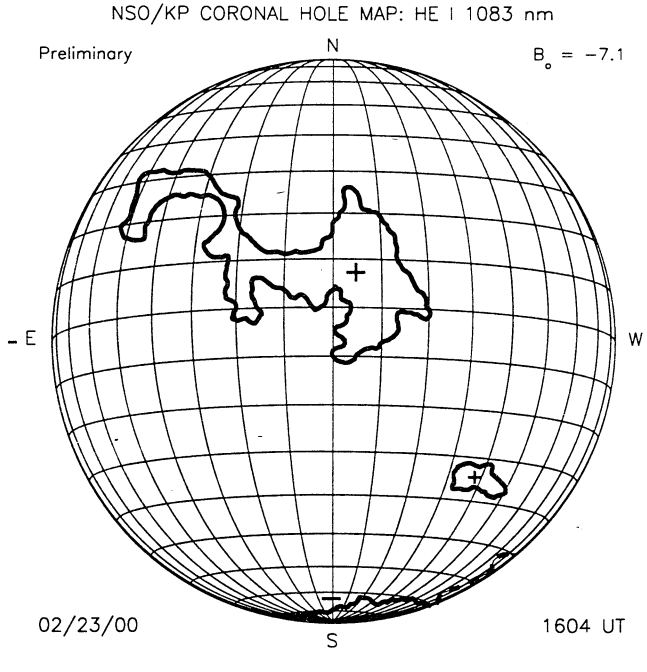


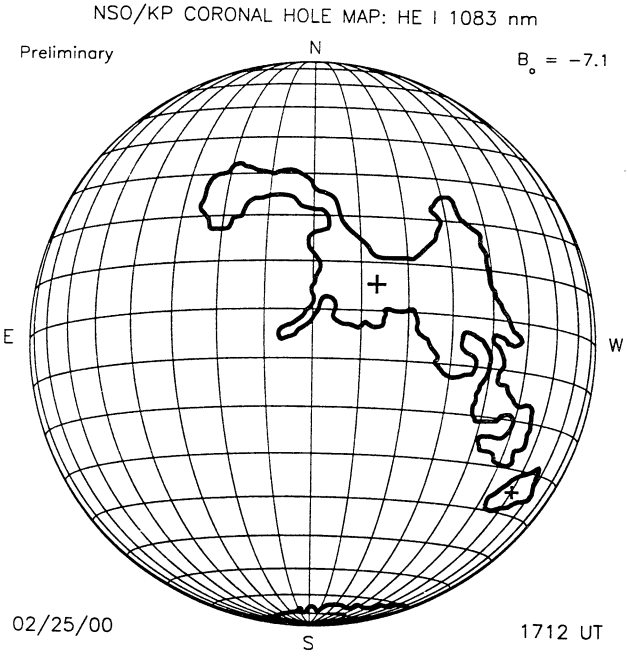
KITT PEAK CORONAL HOLE MAPS HE I 1083 nm
February 2000

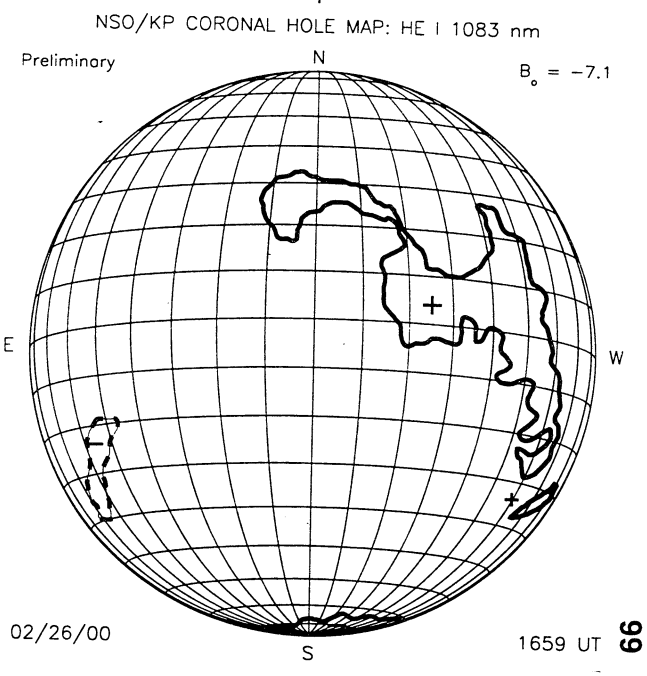




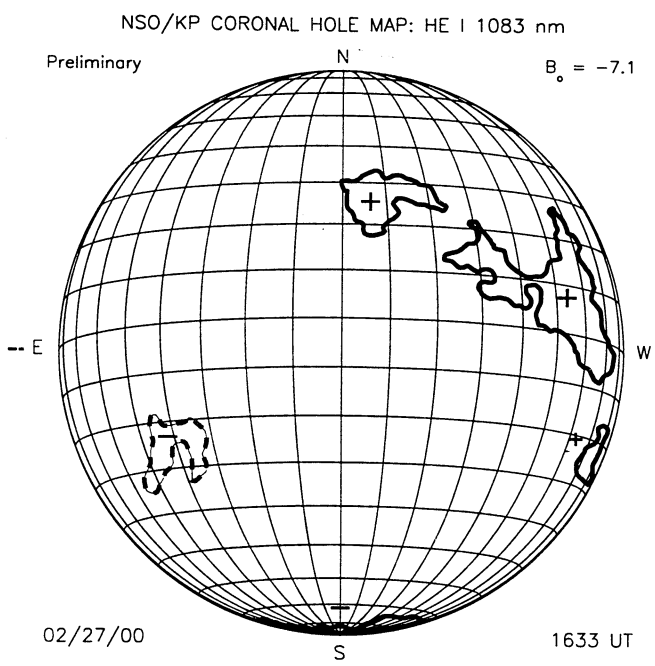




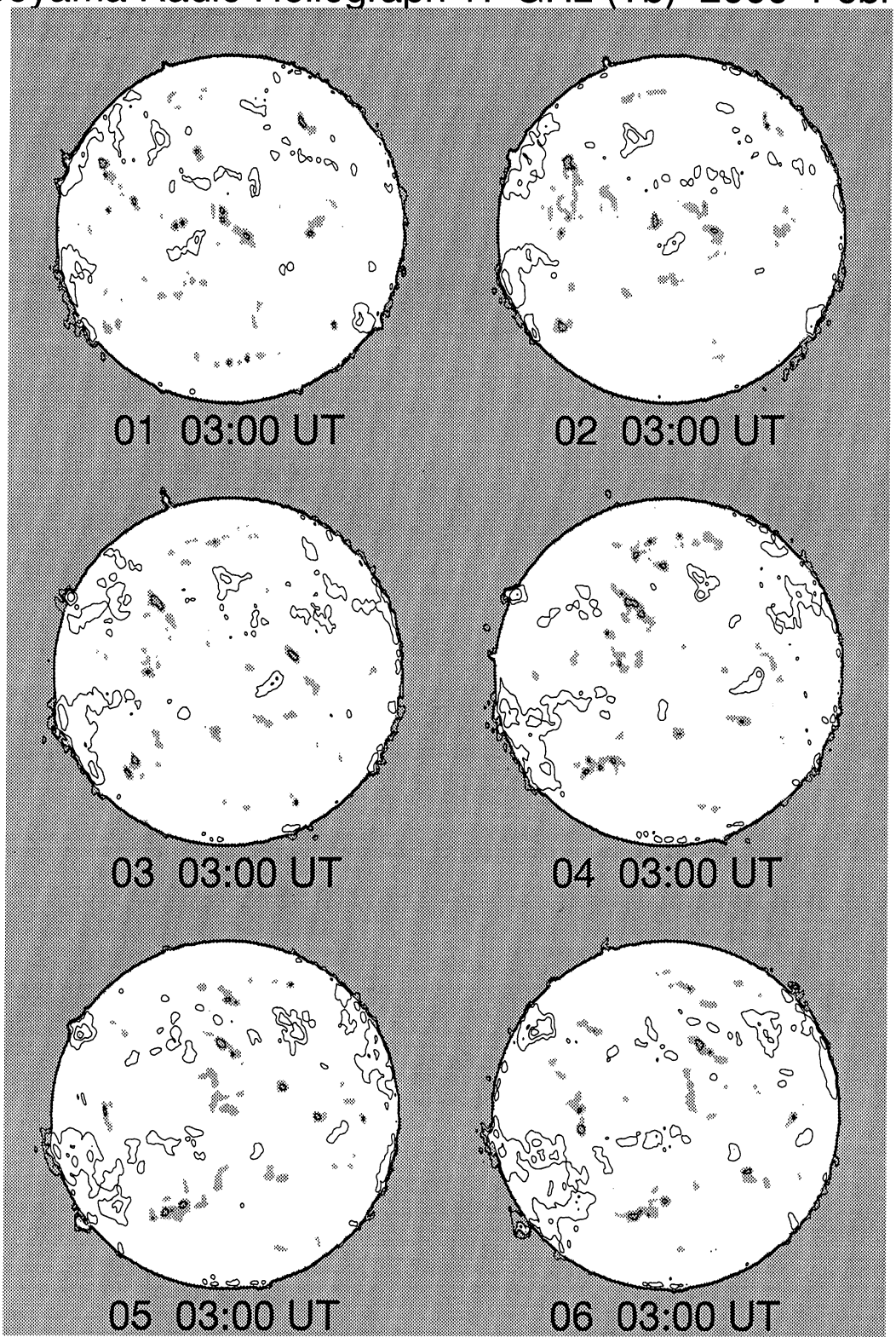




KITT PEAK CORONAL HOLE MAPS HE I 1083 nm
February 2000

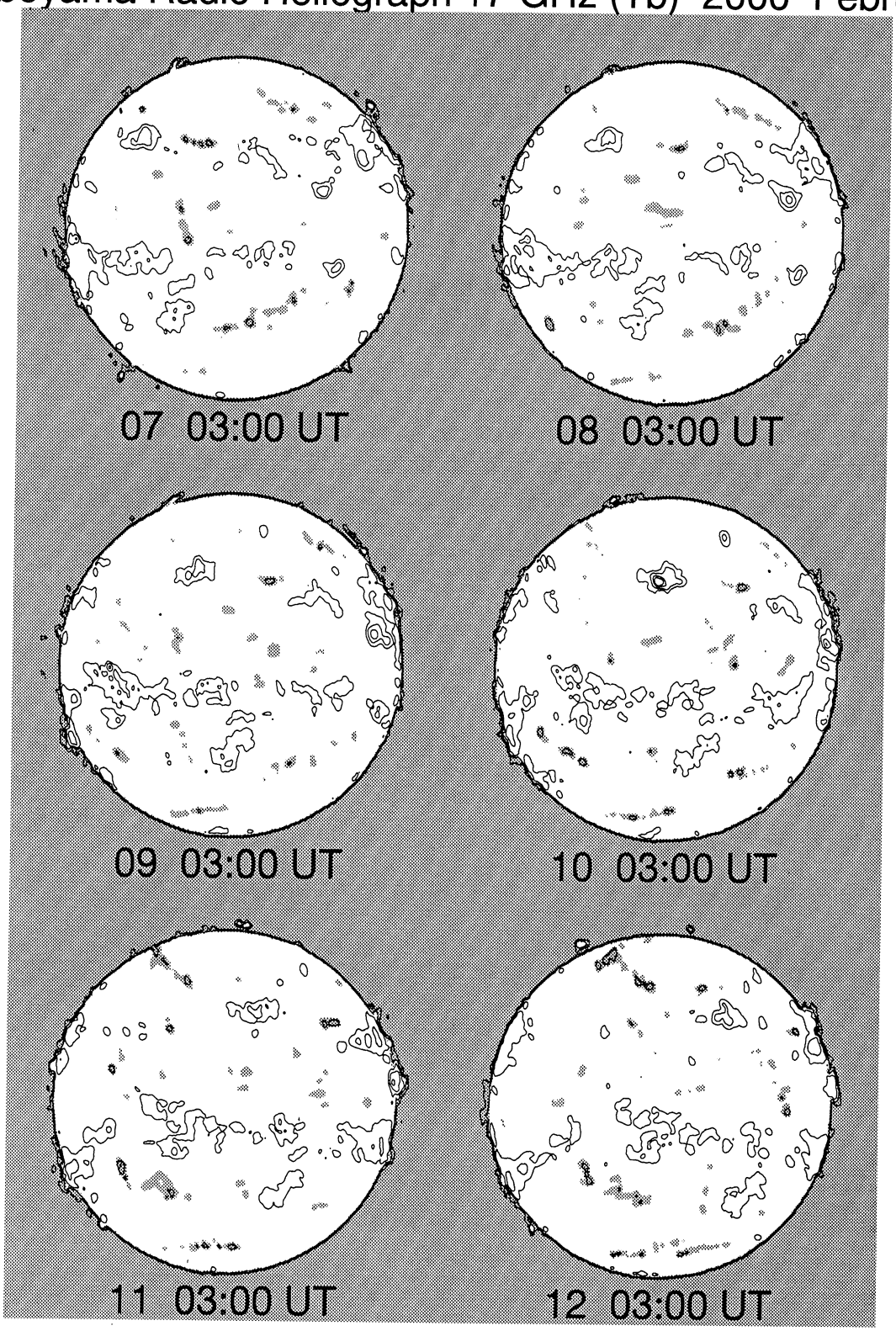


Nobeyama Radio Heliograph 17 GHz (Tb) 2000 February



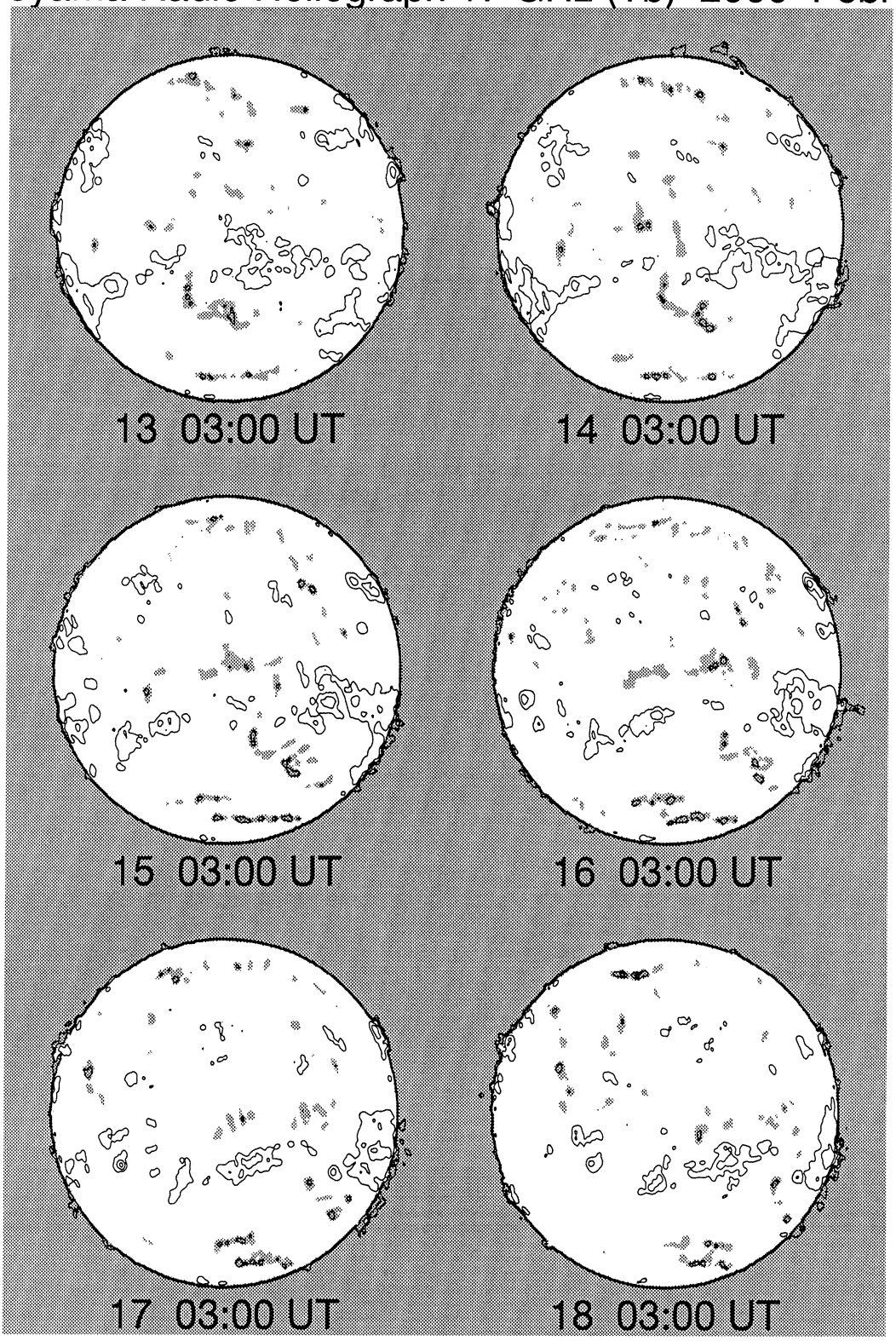
Contour Levels Tb=[5,8,12,20,50,100] x 10^3 K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2000 February



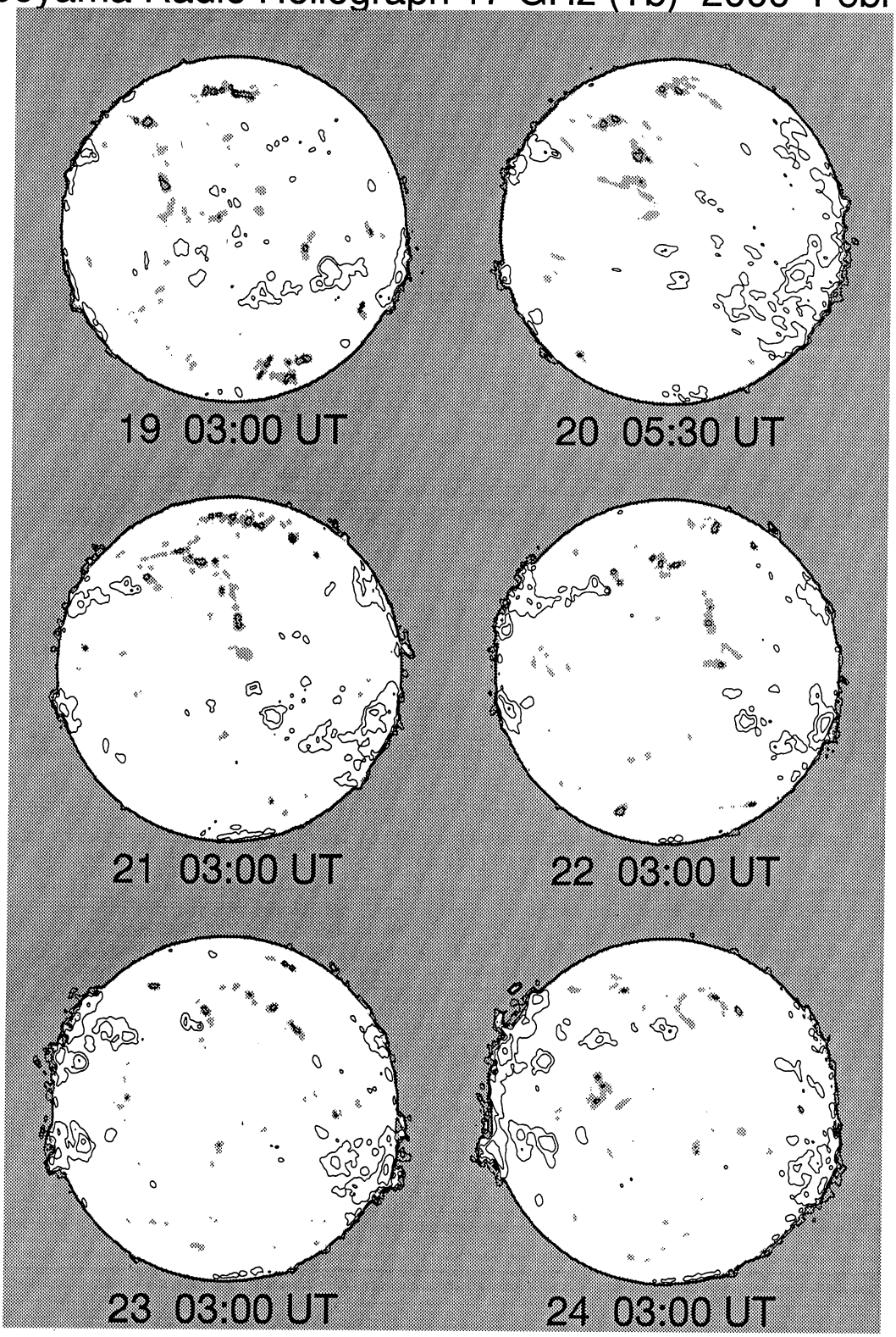
Contour Levels Tb=[5,8,12,20,50,100] x 10^3 K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2000 February



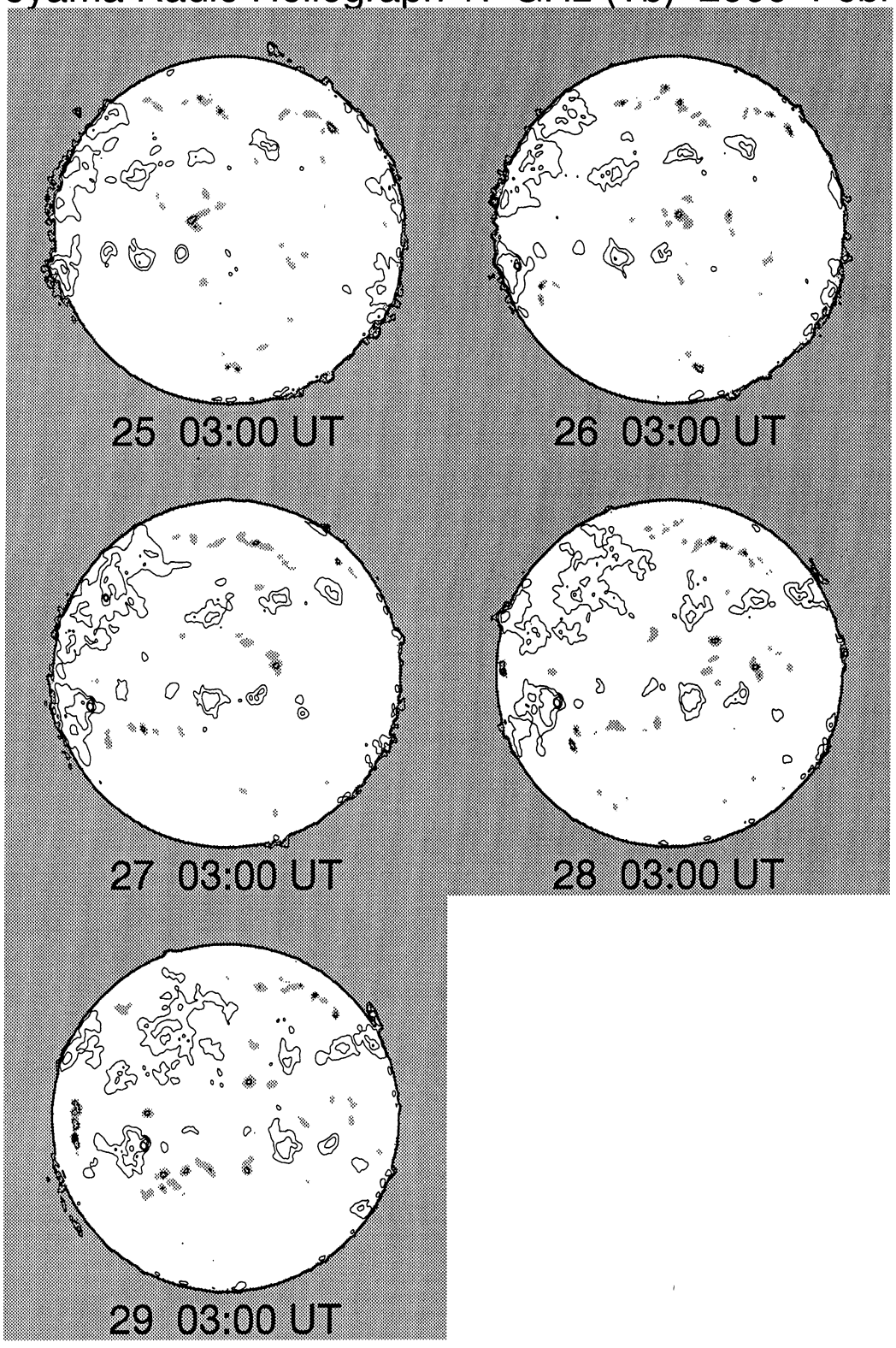
Contour Levels Tb=[5,8,12,20,50,100] x 10^3 K
Grey level Tb <= 9,500 K

Nobeyama Radio Heliograph 17 GHz (Tb) 2000 February



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

Nobeyama Radio Heliograph 17 GHz (Tb) 2000 February



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

SUNSPOT GROUPS
(Ordered by Central Meridian Passage Date)

FEBRUARY 2000

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
8848A		RAMY	02 06 1246	N11 W71	02 1.2		A	AX		1		3
8848A	29571	MWIL	02 06 1600	N12 W73	02 1.2	3	(AF)					
8848		RAMY	01 26 1949	S07 E80	02 1.8		A	AX	10	1		3
8848		HOLL	01 26 2025	S07 E80	02 1.8		A	AX	10	1		2
8848	29551	MWIL	01 26 2130	S09 E79	02 1.8	4	AP					
8848		VORO	01 26 2336	S09 E79	02 1.9			HAX	56	1		2
8848		LEAR	01 27 0018	S10 E78	02 1.9		B	CSO	30	3	2	4
8848		TACH	01 27 0518	S09 E76	02 1.9			HXX	20	1	1	3
8848		SVTO	01 27 0919	S09 E73	02 1.9		A	HA	20	1	1	3
8848		KAND	01 27 1005	S09 E76	02 2.1			CRO		4	6	5
8848		RAMY	01 27 1237	S08 E75	02 2.1		B	CSO	30	3	8	3
8848	29551	MWIL	01 27 1445	S10 E70	02 1.9	5	(BP)					
8848		HOLL	01 27 1634	S07 E69	02 1.8		B	CAO	30	2	8	4
8848		VORO	01 27 2350	S09 E68	02 2.1			CAO	100	2	7	2
8848		LEAR	01 28 0145	S09 E66	02 2.0		B	CAO	90	7	8	4
8848		TACH	01 28 0545	S11 E60	02 1.7			HSX	45	1	1	3
8848		KAND	01 28 0650	S10 E64	02 2.1			CSO		6	9	4
8848		SVTO	01 28 1045	S09 E61	02 2.0		B	DSO	120	5	8	3
8848		RAMY	01 28 1242	S09 E58	02 1.9		B	DAO	70	4	7	3
8848	29551	MWIL	01 28 1545	S10 E58	02 2.0	5	(B)					
8848		HOLL	01 28 1826	S08 E57	02 2.0		B	CSO	40	4	7	3
8848		VORO	01 28 2347	S10 E54	02 2.0			DAI	168	4	7	3
8848		SVTO	01 29 0820	S10 E49	02 2.0		B	CAO	110	5	9	3
8848		KAND	01 29 1030	S09 E47	02 2.0			CAO		9	8	3
8848		RAMY	01 29 1203	S09 E47	02 2.0		B	DSO	50	3	7	3
8848	29551	MWIL	01 29 1545	S10 E45	02 2.0	5	(BP)					
8848		HOLL	01 29 1610	S08 E45	02 2.0		B	CSO	140	9	9	3
8848		LEAR	01 30 0830	S09 E35	02 2.0		B	CSO	110	7	8	4
8848		KAND	01 30 0930	S09 E34	02 1.9			CAO		4	6	2
8848		RAMY	01 30 1220	S09 E33	02 2.0		B	CSO	50	4	7	4
8848		SVTO	01 30 1228	S10 E32	02 1.9		B	DAO	60	3	8	2
8848		HOLL	01 30 1820	S08 E28	02 1.9		B	CSO	60	4	7	2
8848		LEAR	01 31 0115	S09 E24	02 1.8		B	CSO	80	4	3	3
8848		VORO	01 31 0156	S09 E23	02 1.8			HSX	43	1		1
8848		SVTO	01 31 0730	S09 E22	02 2.0		B	DAO	60	3	7	3
8848		KAND	01 31 0810	S09 E21	02 1.9			CSO		3	6	2
8848		RAMY	01 31 1217	S08 E19	02 1.9		B	CSO	80	4	6	3
8848	29551	MWIL	01 31 2200	S09 E10	02 1.7	5	(BP)					
8848		LEAR	02 01 0145	S09 E11	02 1.9		B	CSO	80	5	5	4
8848		TACH	02 01 0551	S08 E09	02 1.9			CAO	111	4	5	3
8848		KAND	02 01 0835	S09 E07	02 1.9			CSO		3	7	3
8848		RAMY	02 01 1238	S09 E05	02 1.9		B	CSO	60	3	7	3
8848		SVTO	02 01 1332	S09 E04	02 1.9		B	CAO	90	6	7	2
8848	29551	MWIL	02 01 1545	S09 E02	02 1.8	5	(BP)					
8848		VORO	02 01 2347	S08 W04	02 1.7			HAX	69	1		2
8848		LEAR	02 02 0200	S08 W03	02 1.8		B	CSO	70	5	3	3
8848		TACH	02 02 0520	S08 W08	02 1.6			HSX	100	1	2	3
8848		KAND	02 02 0935	S09 W09	02 1.7			HS		1	2	3
8848		RAMY	02 02 1302	S08 W12	02 1.6		A	HS	80	1	2	3
8848		SVTO	02 02 1435	S08 W12	02 1.7		B	CAO	50	2	3	2
8848	29551	MWIL	02 02 1545	S09 W11	02 1.8	5	(BP)					
8848		HOLL	02 02 1650	S08 W13	02 1.7		B	CSO	70	3	2	4
8848		VORO	02 02 2348	S09 W17	02 1.7			HAX	92	4		3
8848		LEAR	02 03 0045	S08 W17	02 1.7		B	CSO	70	6	4	3
8848		KAND	02 03 1205	S08 W23	02 1.8			HS		3	4	3
8848		RAMY	02 03 1259	S08 W23	02 1.8		B	CAO	70	7	4	3
8848	29551	MWIL	02 03 1545	S08 W26	02 1.7	5	(BP)					
8848		HOLL	02 03 1658	S09 W25	02 1.8		B	CSO	140	6	5	3
8848		VORO	02 03 2342	S09 W31	02 1.7			HSX	71	1		2
8848		TACH	02 04 0508	S06 W34	02 1.7			HSX	100	2	2	3
8848		SVTO	02 04 0717	S08 W35	02 1.7		A	HS	40	1	2	3
8848		RAMY	02 04 1220	S08 W37	02 1.7		A	HS	40	1	2	2
8848		HOLL	02 04 1651	S09 W39	02 1.8		B	CSO	70	3	4	3
8848		LEAR	02 05 0120	S08 W44	02 1.7		B	CSO	70	5	3	4
8848		VORO	02 05 0247	S08 W46	02 1.7			HAX	35	1		2
8848		TACH	02 05 0435	S08 W46	02 1.7			HSX	100	2	2	2
8848		KAND	02 05 0810	S09 W48	02 1.7			HS		1	2	3
8848		SVTO	02 05 0933	S07 W49	02 1.7		A	HA	90	2	2	3

SUNSPOT GROUPS
(Ordered by Central Meridian Passage Date)

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
8848		RAMY	02	05	1253	S08	W51	02	1.7		A	HS	60	1	2	4
8848		HOLL	02	05	1602	S09	W53	02	1.7		A	HS	100	2	2	3
8848	29551	MWIL	02	05	1700	S08	W53	02	1.7	5	(AP)					
8848		LEAR	02	06	0040	S07	W57	02	1.7		B	CSO	70	5	3	3
8848		VORO	02	06	0130	S09	W59	02	1.6			AXX	19	1		2
8848		SVTO	02	06	0725	S07	W60	02	1.8		B	CSO	50	3	4	4
8848		KAND	02	06	1005	S08	W63	02	1.7			HS		1	2	3
8848		RAMY	02	06	1246	S08	W64	02	1.7		A	HS	60	2	1	3
8848	29551	MWIL	02	06	1600	S07	W66	02	1.7	4	(AP)					
8848		HOLL	02	06	1625	S09	W67	02	1.6		A	HA	100	2	2	3
8848		VORO	02	06	2345	S08	W70	02	1.7			HSX	105	2		2
8848		LEAR	02	07	0130	S06	W69	02	1.9		B	CAO	70	3	3	4
8848		TACH	02	07	0442	S06	W70	02	1.9			HSX	23	2	1	3
8848		KAND	02	07	0905	S07	W80	02	1.4			HA		2	2	4
8848		RAMY	02	07	1248	S07	W78	02	1.7		B	BXO	10	4	3	3
8848	29551	MWIL	02	07	1600	S08	W80	02	1.7	4	(AP)					
8848		HOLL	02	07	1601	S10	W79	02	1.7		B	BXO	10	2		3
8850		RAMY	01	30	1220	S18	E31	02	1.9		B	BXO		2	3	4
8850		SVTO	01	30	1228	S18	E30	02	1.8		B	CRO	10	2	1	2
8850		HOLL	01	30	1820	S17	E27	02	1.8		A	AX	10	2	2	2
8850		LEAR	01	31	0115	S17	E23	02	1.8		B	BXO	10	2	3	3
8852	29555	MWIL	01	29	1545	N10	E47	02	2.2	4	(AF)					
8852		HOLL	01	30	1820	N10	E28	02	1.9		B	BXO	20	8	4	2
8852		LEAR	01	31	0115	N10	E28	02	2.1		B	CRO	20	4	5	3
8852		SVTO	01	31	0730	N09	E23	02	2.0		B	DAO	30	5	4	3
8852		KAND	01	31	0810	N09	E22	02	2.0			BXO		4	4	2
8852		RAMY	01	31	1217	N10	E19	02	1.9		B	BXO	10	7	5	3
8852	29555	MWIL	01	31	2200	N09	E13	02	1.9	4	(B)					
8852		LEAR	02	01	0145	N10	E12	02	2.0		B	DRO	40	12	7	4
8852		TACH	02	01	0551	N10	E09	02	1.9			BRI	33	6	4	3
8852		KAND	02	01	0835	N09	E09	02	2.0			CSO		5	5	3
8852		RAMY	02	01	1238	N10	E06	02	2.0		B	BXO	10	8	6	3
8852		SVTO	02	01	1332	N09	E05	02	1.9		B	CRO	20	8	7	2
8852	29555	MWIL	02	01	1545	N09	E05	02	2.0	3	(BF)					
8852		LEAR	02	02	0200	N09	W02	02	1.9		B	CRO	20	6	5	3
8852		TACH	02	02	0520	N11	W01	02	2.1			AR	3	2	2	3
8852		RAMY	02	02	1302	N10	W05	02	2.2		B	BXO		4	4	3
8852	29555	MWIL	02	02	1545	N09	W08	02	2.0	4	(AF)					
8851		KAND	01	30	0930	N26	E50	02	3.3			BXO		2	4	2
8851		RAMY	01	30	1220	N27	E49	02	3.3		B	BXO	10	3	4	4
8851		SVTO	01	30	1228	N26	E47	02	3.2		B	CRO	20	2	5	2
8851		HOLL	01	30	1820	N27	E44	02	3.2		B	BXO	20	5	6	2
8851		LEAR	01	31	0115	N26	E41	02	3.2		B	DAO	90	5	7	3
8851		VORO	01	31	0156	N25	E40	02	3.2			DAI	184	4	6	1
8851		SVTO	01	31	0730	N27	E38	02	3.3		B	DAO	50	6	6	3
8851		KAND	01	31	0810	N26	E37	02	3.2			DAO		7	6	2
8851		RAMY	01	31	1217	N27	E35	02	3.2		B	DAO	70	7	7	3
8851	29557	MWIL	01	31	2200	N26	E29	02	3.2	5	(B)					
8851		LEAR	02	01	0145	N27	E27	02	3.2		B	DAO	160	13	8	4
8851		TACH	02	01	0551	N26	E25	02	3.2			DAO	206	7	7	3
8851		KAND	02	01	0835	N26	E24	02	3.2			DSO		8	9	3
8851		RAMY	02	01	1238	N28	E22	02	3.2		B	DAO	100	14	9	3
8851		SVTO	02	01	1332	N26	E21	02	3.2		B	DAO	130	14	9	2
8851	29557	MWIL	02	01	1545	N26	E21	02	3.3	4	(B)					
8851		VORO	02	01	2347	N26	E16	02	3.2			DAI	146	7	7	2
8851		LEAR	02	02	0200	N27	E15	02	3.2		B	DAO	150	17	10	3
8851		TACH	02	02	0520	N27	E12	02	3.1			DAI	163	8	7	3
8851		KAND	02	02	0935	N25	E11	02	3.2			EAO		11	11	3
8851		RAMY	02	02	1302	N25	E08	02	3.2		B	DSO	110	24	10	3
8851		SVTO	02	02	1435	N27	E09	02	3.3		B	DAO	100	11	10	2
8851	29560	MWIL	02	02	1545	N22	E09	02	3.3	4	(B)					
8851	29557	MWIL	02	02	1545	N26	E08	02	3.3	5	(B)					
8851		HOLL	02	02	1650	N27	E05	02	3.1		B	DSO	90	17	10	4
8851		VORO	02	02	2348	N26	E03	02	3.2			DAI	165	8	8	3
8851		LEAR	02	03	0045	N25	E03	02	3.3		B	DSO	130	21	10	3
8851		KAND	02	03	1205	N26	W05	02	3.1			EAO		10	11	3

SUNSPOT GROUPS
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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
8851		RAMY	02 03 1259	N26 W04	02 3.2		B	DAO	80	19	10	3
8851	29560	MWIL	02 03 1545	N20 W04	02 3.3	3	(B)					
8851	29557	MWIL	02 03 1545	N26 W05	02 3.3	5	(B)					
8851		HOLL	02 03 1658	N21 W08	02 3.1		B	BXO	10	2	2	3
8851		HOLL	02 03 1658	N26 W08	02 3.1		B	ESO	140	16	11	3
8851		VORO	02 03 2342	N20 W08	02 3.4			AXX	31	3		2
8851		VORO	02 03 2342	N27 W09	02 3.3			DAO	120	6	10	2
8851		TACH	02 04 0508	N25 W13	02 3.2			CHI	70	13	9	3
8851		SVTO	02 04 0717	N24 W13	02 3.3		B	EAO	140	14	11	3
8851		RAMY	02 04 1220	N25 W16	02 3.3		B	DSO	100	17	10	2
8851		HOLL	02 04 1651	N25 W20	02 3.1		B	CSO	190	25	12	3
8851		LEAR	02 05 0120	N25 W22	02 3.3		B	ESO	140	29	11	4
8851		VORO	02 05 0247	N21 W26	02 3.1			DRO	40	3	4	2
8851		VORO	02 05 0247	N27 W25	02 3.2			DRI	79	6	8	2
8851		TACH	02 05 0435	N24 W24	02 3.3			CAI	82	14	8	2
8851		KAND	02 05 0810	N22 W29	02 3.1			DSO		7	6	3
8851		KAND	02 05 0810	N27 W26	02 3.3			CSO		6	13	3
8851		SVTO	02 05 0933	N25 W29	02 3.1		B	EAO	120	15	13	3
8851		RAMY	02 05 1253	N25 W29	02 3.3		B	DSO	110	19	10	4
8851		HOLL	02 05 1602	N24 W32	02 3.2		B	DAO	170	16	12	3
8851	29560	MWIL	02 05 1700	N21 W33	02 3.2	4	(B)					
8851	29557	MWIL	02 05 1700	N26 W32	02 3.2	4	(B)					
8851		LEAR	02 06 0040	N25 W35	02 3.3		B	EAO	50	14	12	3
8851		VORO	02 06 0130	N20 W38	02 3.1			CAO	53	3	5	2
8851		VORO	02 06 0130	N28 W36	02 3.2			BXI	67	5	10	2
8851		SVTO	02 06 0725	N26 W40	02 3.2		B	ESO	60	13	13	4
8851		KAND	02 06 1005	N20 W42	02 3.2			CSO		6	8	3
8851		KAND	02 06 1005	N27 W40	02 3.3			BXO		9	11	3
8851		RAMY	02 06 1246	N24 W43	02 3.2		B	CSO	30	11	13	3
8851	29560	MWIL	02 06 1600	N21 W45	02 3.2	5	(BP)					
8851	29557	MWIL	02 06 1600	N27 W43	02 3.3	4	(B)					
8851		HOLL	02 06 1625	N22 W45	02 3.2		B	DAO	190	11	12	3
8851		VORO	02 06 2345	N20 W47	02 3.4			CRI	70	6	4	2
8851		LEAR	02 07 0130	N25 W47	02 3.4		B	ESO	90	10	11	4
8851		TACH	02 07 0442	N24 W48	02 3.5			BRI	44	9	12	3
8851		KAND	02 07 0905	N20 W55	02 3.2			DSO		4	7	4
8851		KAND	02 07 0905	N25 W57	02 3.0			DAO		2	6	4
8851		SVTO	02 07 1011	N23 W53	02 3.3		B	DSO	90	5	6	2
8851		RAMY	02 07 1248	N23 W57	02 3.1		B	DAO	50	10	8	3
8851	29560	MWIL	02 07 1600	N20 W55	02 3.4	5	(B)					
8851	29557	MWIL	02 07 1600	N25 W58	02 3.2	4	(B)					
8851		HOLL	02 07 1601	N20 W58	02 3.2		B	DAO	60	9	7	3
8851		VORO	02 08 0110	N19 W64	02 3.2			HRX	108	2		2
8851		LEAR	02 08 0130	N23 W60	02 3.4		B	DSO	50	7	9	3
8851		KAND	02 08 0835	N19 W69	02 3.1			AX		2	2	3
8851		KAND	02 08 0835	N21 W68	02 3.1			BXO		2	7	3
8851		TACH	02 08 0910	N20 W68	02 3.2			HSX	20	1	1	3
8851		RAMY	02 08 1334	N20 W70	02 3.2		B	BXO	10	2	3	3
8851		HOLL	02 08 1535	N17 W72	02 3.2		A	AX	10	1	1	3
8851		LEAR	02 09 0146	N24 W73	02 3.4		B	BXO	10	2	6	3
8852B		RAMY	02 03 1259	S14 W04	02 3.2		A	AX		1		3
8852C		RAMY	02 03 1259	N15 W03	02 3.3		B	BXO		3	3	3
8852A		RAMY	02 09 1329	N05 W75	02 3.9		B	BXO	10	4	8	3
8857	29561	MWIL	02 02 1545	S20 E23	02 4.4	4	(B)					
8857		HOLL	02 02 1650	S18 E22	02 4.4		A	AX	10	1	1	4
8857		LEAR	02 03 0045	S19 E16	02 4.2		B	BXO	10	4	4	3
8857		KAND	02 03 1205	S20 E10	02 4.3			BXO		4	3	3
8857		RAMY	02 03 1259	S20 E10	02 4.3		B	BXO	10	6	4	3
8857	29561	MWIL	02 03 1545	S20 E08	02 4.3	4	(B)					
8857		HOLL	02 03 1658	S18 E08	02 4.3		B	BXO	20	3	5	3
8857		TACH	02 04 0508	S18 E02	02 4.4			BRI	6	5	4	3
8857		SVTO	02 04 0717	S19 W01	02 4.2		B	DAO	60	8	6	3
8857		RAMY	02 04 1220	S18 W04	02 4.2		B	BXO	10	2	6	2
8857		HOLL	02 04 1651	S17 W06	02 4.2		B	BXO	40	4	5	3
8857		LEAR	02 05 0120	S18 W11	02 4.2		B	BXO	10	3	4	4

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8857		LEAR	02 06 0040	S16 W25	02 4.1		A	AX		1		3
8857		SVTO	02 06 0725	S18 W26	02 4.3		B	DSO	20	6	6	4
8857		KAND	02 06 1005	S18 W29	02 4.2			BXO		10	4	3
8857		RAMY	02 06 1246	S18 W29	02 4.3		B	CRO	20	8	5	3
8857	29572	MWIL	02 06 1600	S18 W32	02 4.2	5	(B)					
8857		HOLL	02 06 1625	S18 W32	02 4.2		B	BXO	70	9	5	3
8857		LEAR	02 07 0130	S17 W36	02 4.3		B	DSO	70	13	7	4
8857		TACH	02 07 0442	S19 W38	02 4.3			BRI	28	5	5	3
8857		KAND	02 07 0905	S19 W41	02 4.2			BXO		9	6	4
8857		SVTO	02 07 1011	S18 W41	02 4.3		B	DSO	50	3	7	2
8857		RAMY	02 07 1248	S18 W43	02 4.2		B	DRO	20	10	7	3
8857	29572	MWIL	02 07 1600	S18 W45	02 4.2	4	(B)					
8857		HOLL	02 07 1601	S21 W44	02 4.3		B	BXO	20	11	5	3
8857		LEAR	02 08 0130	S18 W47	02 4.5		B	DRO	30	9	3	3
8857		KAND	02 08 0835	S20 W50	02 4.5			AX		3	2	3
8857		TACH	02 08 0910	S18 W52	02 4.4			BRO	26	3	4	3
8857		LEAR	02 09 0146	S17 W59	02 4.6		B	BXO	10	3	4	3
8861		KAND	02 05 0810	N12 W06	02 4.9			AX		1		3
8861		RAMY	02 05 1253	N08 W09	02 4.9		A	AX		2	1	4
8861		HOLL	02 05 1602	N08 W11	02 4.8		B	BXO	30	5	4	3
8861	29568	MWIL	02 05 1700	N07 W11	02 4.9	4	(B)					
8861		LEAR	02 06 0040	N08 W13	02 5.0		B	BXO	10	5	4	3
8861		VORO	02 06 0130	N07 W17	02 4.8			EHO	208	11	4	2
8861		SVTO	02 06 0725	N07 W18	02 5.0		B	DSO	20	13	6	4
8861		KAND	02 06 1005	N07 W20	02 4.9			BXO		17	6	3
8861		RAMY	02 06 1246	N08 W22	02 4.9		B	DRO	20	13	6	3
8861	29568	MWIL	02 06 1600	N07 W23	02 4.9	4	(B)					
8861		HOLL	02 06 1625	N07 W24	02 4.9		B	BXO	50	16	5	3
8861		LEAR	02 07 0130	N08 W27	02 5.0		B	DKO	200	20	7	4
8861		TACH	02 07 0442	N07 W30	02 4.9			DAI	229	11	4	3
8861		KAND	02 07 0905	N07 W34	02 4.8			DAI		12	8	4
8861		SVTO	02 07 1011	N08 W33	02 4.9		B	DAO	130	5	7	2
8861		RAMY	02 07 1248	N08 W35	02 4.9		B	DSO	320	18	7	3
8861	29568	MWIL	02 07 1600	N08 W36	02 5.0	5	(BD)					
8861		HOLL	02 07 1601	N06 W37	02 4.9		B	DAI	220	13	6	3
8861		VORO	02 08 0110	N07 W42	02 4.9			EHO	256	10	6	2
8861		LEAR	02 08 0130	N09 W41	02 5.0		B	DAO	250	17	9	3
8861		KAND	02 08 0835	N07 W46	02 4.9			DAO		11	8	3
8861		TACH	02 08 0910	N08 W45	02 5.0			DAI	405	13	5	3
8861		SVTO	02 08 1048	N08 W47	02 4.9		B	DAO	320	6	7	2
8861		RAMY	02 08 1334	N06 W48	02 5.0		B	DAI	350	15	8	3
8861		HOLL	02 08 1535	N06 W50	02 4.9		B	DAO	260	11	9	3
8861		VORO	02 08 2330	N07 W55	02 4.8			EHO	365	12	7	2
8861		LEAR	02 09 0146	N08 W57	02 4.8		B	EAO	280	19	15	3
8861		KAND	02 09 0755	N08 W59	02 4.9			DAO		10	9	2
8861		RAMY	02 09 1329	N06 W64	02 4.8		B	DAI	440	11	10	3
8861	29568	MWIL	02 09 1630	N07 W64	02 4.9	5	(BD)					
8861		HOLL	02 09 1648	N07 W64	02 4.9		B	DAO	310	17	10	2
8861		VORO	02 10 0005	N08 W69	02 4.8			EHO	490	8	6	2
8861		LEAR	02 10 0105	N08 W67	02 5.0		B	DAO	350	9	7	3
8861		TACH	02 10 0856	N08 W72	02 5.0			DAI	290	6	7	2
8861		HOLL	02 10 1847	N07 W76	02 5.1		B	DAO	280	4	8	2
8861		VORO	02 10 2356	N08 W77	02 5.2			HAX	281	3		2
8861		LEAR	02 11 0110	N08 W83	02 4.8		B	EAO	240	2	12	3
8861A		RAMY	02 08 1334	S21 W43	02 5.3		B	BXO		3	2	3
8860		RAMY	02 04 1220	N27 E12	02 5.4		A	AX	10	2	2	2
8860		HOLL	02 04 1651	N26 E08	02 5.3		B	BXO	40	5	3	3
8860		LEAR	02 05 0120	N26 E05	02 5.4		B	BXO	10	3	3	4
8860		LEAR	02 06 0040	N30 W08	02 5.4		A	AX		1		3
8860A		HOLL	02 02 1650	S11 E39	02 5.6		A	AX		1	1	4
8853		KAND	02 01 0835	S10 E73	02 6.8			AX		1		3
8853		RAMY	02 01 1238	S09 E69	02 6.7		A	AX		1		3
8853		SVTO	02 01 1332	S11 E69	02 6.7		A	HR	10	1	1	2
8853	29558	MWIL	02 01 1545	S12 E69	02 6.8	4	(AF)					

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8853		LEAR	02	02	0200	S11	E63	02	6.8		A	AX	20	3	4	3
8853		SVTO	02	02	1435	S12	E56	02	6.8		B	BXO	10	2	4	2
8853	29558	MWIL	02	02	1545	S13	E58	02	7.0	4	(BF)					
8853		HOLL	02	02	1650	S08	E57	02	7.0		A	AX	10	1	1	4
8853		LEAR	02	03	0045	S12	E53	02	7.0		B	CRO	10	3	3	3
8853	29558	MWIL	02	03	1545	S13	E45	02	7.0	3	(AF)					
8853		HOLL	02	03	1658	S10	E44	02	7.0		B	BXO	30	2	1	3
8853		HOLL	02	04	1651	S12	E32	02	7.1		A	AX	30	3	2	3
8853		LEAR	02	05	0120	S13	E26	02	7.0		B	BXO	10	2	2	4
8853		HOLL	02	05	1602	S12	E18	02	7.0		A	AX	20	3	2	3
8853	29558	MWIL	02	05	1700	S14	E17	02	7.0	3	(AF)					
8853		LEAR	02	06	0040	S11	E12	02	6.9		B	BXO		6	2	3
8853		KAND	02	06	1005	S13	E07	02	6.9			AX		4	1	3
8853	29558	MWIL	02	06	1600	S13	W02	02	6.5	4	(BP)					
8853		HOLL	02	06	1625	S12	E03	02	6.9		B	BXO	30	4	3	3
8853		LEAR	02	07	0130	S15	W03	02	6.8		B	DSO	20	2	2	4
8853		TACH	02	07	0442	S15	W05	02	6.8			BRO	3	2	1	3
8853	29558	MWIL	02	07	1600	S13	W13	02	6.7	4	(BF)					
8853		LEAR	02	08	0130	S13	W15	02	6.9		B	DSO	20	5	2	3
8853		KAND	02	08	0835	S14	W19	02	6.9			AX		3	2	3
8853		RAMY	02	08	1334	S13	W22	02	6.9		A	AX		2	1	3
8853		HOLL	02	08	1535	S14	W24	02	6.8		A	AX	10	2	1	3
8855		LEAR	02	02	0200	N14	E69	02	7.3		A	AX	30	1	1	3
8855		RAMY	02	02	1302	N16	E63	02	7.3		B	BXO	10	3	7	3
8855		SVTO	02	02	1435	N15	E62	02	7.3		B	BXO	10	2	9	2
8855	29563	MWIL	02	02	1545	N14	E63	02	7.4	4	(AP)					
8855	29562	MWIL	02	02	1545	N16	E59	02	7.1	4	(B)					
8855		HOLL	02	02	1650	N18	E59	02	7.2		B	BXO	10	2	8	4
8855		LEAR	02	03	0045	N17	E53	02	7.0		B	BXO		2	5	3
8855	29562	MWIL	02	03	1545	N17	E49	02	7.4	3	(AF)					
8855		RAMY	02	07	1248	N19	W06	02	7.1		B	BXO		2	3	3
8855	29574	MWIL	02	07	1600	N18	W07	02	7.1	4	(BP)					
8855		HOLL	02	07	1601	N17	W10	02	6.9		A	AX		1		3
8855		LEAR	02	08	0130	N18	W13	02	7.1		B	CRO	10	3	4	3
8855		KAND	02	08	0835	N17	W19	02	6.9			AX		2	2	3
8855		RAMY	02	08	1334	N17	W22	02	6.9		B	BXO		3	3	3
8855		HOLL	02	08	1535	N17	W23	02	6.9		A	AX	10	2	1	3
8855		LEAR	02	09	0146	N19	W28	02	6.9		A	AX		1		3
8855		RAMY	02	09	1329	N17	W34	02	7.0		B	BXO	10	4	4	3
8855		LEAR	02	10	0105	N17	W40	02	7.0		A	AX		1		3
8855		HOLL	02	10	1847	N14	W40	02	7.7		A	AX		1		2
8855		HOLL	02	10	1847	N18	W58	02	6.4		B	BXO	10	4	4	2
8855		LEAR	02	11	0110	N18	W63	02	6.2		A	AX		2		3
8855		HOLL	02	11	1615	N18	W70	02	6.3		A	AX	10	1		3
8855		LEAR	02	12	0150	N18	W75	02	6.4		A	AX		1		4
8864		KAND	02	08	0835	N45	W07	02	7.8			AX		1	1	3
8864		RAMY	02	08	1334	N45	W10	02	7.7		A	AX		1		3
8864		HOLL	02	08	1535	N44	W13	02	7.6		A	AX		1		3
8864		LEAR	02	10	0105	N44	W25	02	8.0		B	BXO	20	4	5	3
8864		TACH	02	10	0856	N45	W29	02	8.0			BRO	35	2	5	2
8864		HOLL	02	10	1847	N43	W37	02	7.7		B	BXO	10	2	6	2
8864		LEAR	02	11	0110	N43	W42	02	7.6		A	AX		1		3
8864		LEAR	02	12	0150	N44	W55	02	7.5		A	AX		1		4
8864A		RAMY	02	09	1329	S26	W14	02	8.5		B	BXO		2	2	3
8854		RAMY	02	01	1238	S33	E87	02	8.4		A	HS	20	1	2	3
8854	29559	MWIL	02	01	1545	S35	E85	02	8.4	3	AP					
8854		VORO	02	01	2347	S34	E81	02	8.4			HAX	113	1		2
8854		LEAR	02	02	0200	S34	E79	02	8.4		A	HA	30	1	2	3
8854		TACH	02	02	0520	S34	E80	02	8.6			HSX	60	1	2	3
8854		KAND	02	02	0935	S34	E83	02	9.0			HA		1	3	3
8854		RAMY	02	02	1302	S35	E78	02	8.8		B	CAO	90	2	9	3
8854		SVTO	02	02	1435	S35	E75	02	8.6		A	HS	120	1	4	2
8854	29559	MWIL	02	02	1545	S36	E74	02	8.6	5	(AP)					
8854		HOLL	02	02	1650	S32	E74	02	8.5		A	HS	120	1	2	4
8854		VORO	02	02	2348	S35	E70	02	8.6			HAX	97	1		3

SUNSPOT GROUPS
(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
8854		LEAR	02 03 0045	S34 E68	02 8.4		A	HS	90	2	3	3
8854		KAND	02 03 1205	S34 E66	02 8.8			HS		1	2	3
8854		RAMY	02 03 1259	S35 E68	02 9.0		B	CAO	100	5	12	3
8854	29559	MWIL	02 03 1545	S36 E65	02 8.9	5	(BP)					
8854		HOLL	02 03 1658	S32 E61	02 8.5		A	HS	160	2	4	3
8854		VORO	02 03 2342	S35 E59	02 8.7			HAX	148	1		2
8854		TACH	02 04 0508	S34 E54	02 8.5			HSX	80	3	2	3
8854		SVTO	02 04 0717	S36 E55	02 8.7		B	DAO	100	3	4	3
8854		RAMY	02 04 1220	S34 E52	02 8.6		B	CSO	90	3	4	2
8854		HOLL	02 04 1651	S33 E50	02 8.7		A	HS	170	3	4	3
8854		LEAR	02 05 0120	S34 E44	02 8.6		B	DSO	100	4	3	4
8854		VORO	02 05 0247	S35 E45	02 8.7			HAX	169	2		2
8854		TACH	02 05 0435	S34 E41	02 8.4			HSX	35	2	1	2
8854		KAND	02 05 0810	S34 E42	02 8.7			HA		2	3	3
8854		SVTO	02 05 0933	S34 E42	02 8.7		A	HA	60	3	3	3
8854		RAMY	02 05 1253	S34 E44	02 9.0		B	EAO	60	6	12	4
8854		HOLL	02 05 1602	S33 E39	02 8.8		B	CSO	110	5	5	3
8854	29559	MWIL	02 05 1700	S35 E36	02 8.6	4	(BP)					
8854		LEAR	02 06 0040	S35 E35	02 8.8		B	CAO	50	8	11	3
8854		VORO	02 06 0130	S35 E35	02 8.9			AXX	31	2		2
8854		SVTO	02 06 0725	S34 E31	02 8.8		B	DSO	30	5	5	4
8854		KAND	02 06 1005	S35 E33	02 9.0			CSO		9	13	3
8854		RAMY	02 06 1246	S35 E32	02 9.1		B	CSO	20	4	11	3
8854	29559	MWIL	02 06 1600	S36 E25	02 8.7	4	(AP)					
8854		HOLL	02 06 1625	S33 E26	02 8.7		B	CAO	70	7	4	3
8854		VORO	02 06 2345	S34 E22	02 8.7			HRX	59	2		2
8854		LEAR	02 07 0130	S34 E20	02 8.6		B	CSO	30	3	3	4
8854		TACH	02 07 0442	S35 E19	02 8.7			ARX	22	2	2	3
8854		KAND	02 07 0905	S34 E17	02 8.7			CSO		4	4	4
8854		SVTO	02 07 1011	S34 E16	02 8.7		B	CSO	20	2	3	2
8854		RAMY	02 07 1248	S34 E15	02 8.7		B	CRO	10	3	3	3
8854	29559	MWIL	02 07 1600	S34 E13	02 8.7	5	(AP)					
8854		HOLL	02 07 1601	S34 E15	02 8.9		B	CAO	30	3	1	3
8854		VORO	02 08 0110	S35 E10	02 8.8			AXX	21	2		2
8854		LEAR	02 08 0130	S33 E09	02 8.8		B	CSO	20	4	2	3
8854		KAND	02 08 0835	S34 E06	02 8.8			CRO		6	6	3
8854		TACH	02 08 0910	S34 E04	02 8.7			ARX	32	3	1	3
8854		SVTO	02 08 1048	S34 E04	02 8.8		A	HA	10	1	1	2
8854		RAMY	02 08 1334	S33 E03	02 8.8		B	CRO	10	4	3	3
8854		HOLL	02 08 1535	S34 E03	02 8.9		B	CRO	20	5	4	3
8854		VORO	02 08 2330	S36 W00	02 9.0			AXX	15	1		2
8854		LEAR	02 09 0146	S33 W05	02 8.7		B	BXO	10	3	3	3
8854		KAND	02 09 0755	S34 W07	02 8.8			CRO		3	2	2
8854		RAMY	02 09 1329	S35 W10	02 8.8		B	BXO	10	5	3	3
8854	29559	MWIL	02 09 1630	S34 W11	02 8.8	4	(AP)					
8854		HOLL	02 09 1648	S34 W11	02 8.8		B	BXO	10	4	4	2
8854		LEAR	02 10 0105	S34 W19	02 8.5		B	CRO	20	4	4	3
8856		RAMY	02 02 1302	S15 E88	02 9.2		A	HS	20	1	2	3
8856	29564	MWIL	02 02 1545	S15 E86	02 9.2	4	(AP)					
8856		HOLL	02 02 1650	S12 E83	02 8.9		A	HS	60	1	2	4
8856		VORO	02 02 2348	S16 E80	02 9.0			HAX	83	1		3
8856		LEAR	02 03 0045	S15 E77	02 8.9		B	EAO	100	2	11	3
8856		KAND	02 03 1205	S10 E78	02 9.4			HS		1	2	3
8856		KAND	02 03 1205	S15 E75	02 9.2			HS		1	2	3
8856		RAMY	02 03 1259	S13 E77	02 9.3		B	FSO	100	3	16	3
8856	29566	MWIL	02 03 1545	S11 E75	02 9.3	4	(AP)					
8856	29564	MWIL	02 03 1545	S16 E71	02 9.0	4	(AP)					
8856		HOLL	02 03 1658	S12 E74	02 9.3		B	ESO	330	3	11	3
8856		VORO	02 03 2342	S11 E71	02 9.3			HAX	83	1		2
8856		VORO	02 03 2342	S16 E68	02 9.1			HAX	116	1		2
8856		TACH	02 04 0508	S10 E66	02 9.2			CSX	80	2	2	3
8856		TACH	02 04 0508	S15 E70	02 9.5			HRO	35	1	8	3
8856		SVTO	02 04 0717	S13 E66	02 9.3		B	EAO	110	3	11	3
8856		RAMY	02 04 1220	S13 E66	02 9.5		B	ESO	120	3	12	2
8856		HOLL	02 04 1651	S12 E64	02 9.5		B	ESO	2060	3	15	3
8856		LEAR	02 05 0120	S14 E58	02 9.4		B	ESO	130	3	11	4
8856		VORO	02 05 0247	S11 E55	02 9.2			HAX	42	1		2
8856		VORO	02 05 0247	S16 E52	02 9.0			HSX	109	1		2

SUNSPOT GROUPS
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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
8856		TACH	02 05 0435	S11 E52	02 9.1			HSX	100	1	2	2
8856		TACH	02 05 0435	S15 E55	02 9.3			CAO	60	2	11	2
8856		KAND	02 05 0810	S11 E52	02 9.2			HA		1	1	3
8856		KAND	02 05 0810	S15 E50	02 9.1			HS		1	2	3
8856		SVTO	02 05 0933	S13 E53	02 9.4		B	EAO	190	4	12	3
8856		RAMY	02 05 1253	S13 E52	02 9.5		B	ESO	180	3	11	4
8856		HOLL	02 05 1602	S12 E50	02 9.4		B	DSO	260	4	11	3
8856	29566	MWIL	02 05 1700	S12 E49	02 9.4	5	(BP)					
8856	29564	MWIL	02 05 1700	S17 E48	02 9.3	5	(B)					
8856		LEAR	02 06 0040	S15 E44	02 9.3		B	ESO	110	6	11	3
8856		VORO	02 06 0130	S11 E43	02 9.3			HSX	60	1		2
8856		VORO	02 06 0130	S16 E41	02 9.2			HSX	89	1		2
8856		SVTO	02 06 0725	S13 E40	02 9.3		B	EAO	90	4	12	4
8856		KAND	02 06 1005	S11 E39	02 9.3			HA		2	2	3
8856		KAND	02 06 1005	S15 E36	02 9.1			HS		4	3	3
8856		RAMY	02 06 1246	S12 E38	02 9.4		B	ESO	140	3	11	3
8856	29566	MWIL	02 06 1600	S11 E35	02 9.3	5	(AP)					
8856	29564	MWIL	02 06 1600	S16 E32	02 9.1	5	(AP)					
8856		HOLL	02 06 1625	S13 E35	02 9.3		B	DAO	170	3	9	3
8856		VORO	02 06 2345	S11 E30	02 9.2			HSX	52	1		2
8856		VORO	02 06 2345	S16 E28	02 9.1			HSX	64	1		2
8856		LEAR	02 07 0130	S14 E30	02 9.3		B	ESO	130	6	13	4
8856		TACH	02 07 0442	S11 E27	02 9.2			HSX	50	1	1	3
8856		TACH	02 07 0442	S16 E29	02 9.4			CAO	90	2	10	3
8856		KAND	02 07 0905	S10 E24	02 9.2			HA		1	2	4
8856		KAND	02 07 0905	S15 E22	02 9.0			HS		1	2	4
8856		SVTO	02 07 1011	S14 E27	02 9.5		B	ESO	100	4	12	2
8856		RAMY	02 07 1248	S13 E26	02 9.5		B	ESO	100	7	15	3
8856	29566	MWIL	02 07 1600	S11 E21	02 9.2	5	(AP)					
8856	29564	MWIL	02 07 1600	S16 E18	02 9.0	5	(AP)					
8856		HOLL	02 07 1601	S13 E23	02 9.4		B	EAO	110	8	13	3
8856		VORO	02 08 0110	S11 E17	02 9.3			HSX	28	1		2
8856		VORO	02 08 0110	S16 E14	02 9.1			HSX	34	1		2
8856		LEAR	02 08 0130	S14 E19	02 9.5		B	ESO	140	10	13	3
8856		KAND	02 08 0835	S11 E12	02 9.3			CAO		4	4	3
8856		KAND	02 08 0835	S16 E10	02 9.1			CAO		5	3	3
8856		TACH	02 08 0910	S10 E11	02 9.2			HSX	51	2	1	3
8856		TACH	02 08 0910	S15 E13	02 9.4			CAO	95	5	9	3
8856		SVTO	02 08 1048	S13 E13	02 9.4		B	DSO	90	6	10	2
8856		RAMY	02 08 1334	S14 E12	02 9.5		B	DAO	110	7	9	3
8856		HOLL	02 08 1535	S14 E10	02 9.4		B	EAO	100	8	11	3
8856		VORO	02 08 2330	S12 E04	02 9.3			AXX	15	1		2
8856		VORO	02 08 2330	S17 E02	02 9.1			HSX	36	1		2
8856		LEAR	02 09 0146	S13 E05	02 9.4		B	DSO	100	10	10	3
8856		KAND	02 09 0755	S10 W01	02 9.2			HS		1	1	2
8856		KAND	02 09 0755	S15 W03	02 9.1			HA		1	2	2
8856		RAMY	02 09 1329	S14 W03	02 9.3		B	EAO	50	9	12	3
8856	29566	MWIL	02 09 1630	S11 W05	02 9.3	5	(AP)					
8856	29564	MWIL	02 09 1630	S16 W07	02 9.1	5	(AP)					
8856		HOLL	02 09 1648	S14 W04	02 9.4		B	DSO	60	5	9	2
8856		VORO	02 10 0005	S11 W10	02 9.2			AXX	17	1		2
8856		VORO	02 10 0005	S16 W13	02 9.0			HSX	49	1		2
8856		LEAR	02 10 0105	S13 W07	02 9.5		B	DSO	80	9	12	3
8856		TACH	02 10 0856	S10 W15	02 9.2			AXX	30	1	1	2
8856		TACH	02 10 0856	S15 W13	02 9.4			DAO	123	3	9	2
8856		HOLL	02 10 1847	S13 W18	02 9.4		B	DSO	40	3	9	2
8856		VORO	02 10 2356	S16 W26	02 9.0			HSX	48	1		2
8856		LEAR	02 11 0110	S14 W23	02 9.3		B	EAO	60	5	13	3
8856		TACH	02 11 0548	S10 W26	02 9.3			AXX	25	1	1	3
8856		TACH	02 11 0548	S14 W24	02 9.4			DRO	152	4	8	3
8856	29566	MWIL	02 11 1600	S11 W33	02 9.2	4	AP					
8856	29564	MWIL	02 11 1600	S16 W35	02 9.0	4	AP					
8856		HOLL	02 11 1615	S13 W30	02 9.4		B	DSO	60	3	9	3
8856		VORO	02 12 0105	S16 W39	02 9.1			HSX	40	1		2
8856		LEAR	02 12 0150	S13 W36	02 9.4		B	EAO	40	6	11	4
8856		TACH	02 12 0516	S14 W38	02 9.3			CRO	40	2	8	3
8856		SVTO	02 12 1304	S14 W44	02 9.2		B	DSO	40	2	9	2
8856		HOLL	02 12 1526	S16 W43	02 9.4		B	CSO	40	2	9	4
8856		LEAR	02 13 0100	S16 W47	02 9.5		B	DSO	40	3	9	4

SUNSPOT GROUPS
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8856		VORO	02 13 0121	S16 W53	02 9.0			HSX	39	1		2
8856		TACH	02 13 0634	S15 W50	02 9.5			BRO	31	2	8	3
8856		KAND	02 13 0815	S15 W55	02 9.2			CSO		2	11	4
8856		RAMY	02 13 1304	S17 W56	02 9.3		B	CSO	30	2	8	4
8856		HOLL	02 13 1558	S16 W57	02 9.3		B	CSO	40	2	9	4
8856		VORO	02 13 2336	S16 W62	02 9.3			CAI	60	4	8	2
8856		LEAR	02 14 0035	S15 W61	02 9.4		B	CSO	30	3	7	4
8856		TACH	02 14 0642	S16 W69	02 9.0			HSX	30	1	1	3
8856		SVTO	02 14 0654	S14 W65	02 9.4		B	CSO	40	2	9	3
8856		KAND	02 14 0845	S16 W71	02 9.0			HR		1	2	3
8856		RAMY	02 14 1230	S16 W69	02 9.3		B	CRO	10	3	12	3
8856		HOLL	02 14 1754	S18 W75	02 9.0		A	HS	30	1	1	3
8856		VORO	02 14 2324	S17 W80	02 8.9			HAX	43	1		3
8856		LEAR	02 15 0052	S16 W77	02 9.2		A	HA	20	1	2	3
8856A		KAND	02 05 0810	S14 E60	02 9.9			AX		1	1	3
8856A	29570	MWIL	02 05 1700	S15 E55	02 9.9	4	(AP)					
8856A		VORO	02 06 0130	S15 E51	02 9.9			AXX	24	1		2
8856A		KAND	02 06 1005	S14 E46	02 9.9			HA		2	2	3
8856A	29570	MWIL	02 06 1600	S15 E42	02 9.8	5	(AP)					
8856A		VORO	02 06 2345	S15 E38	02 9.9			AXX	15	1		2
8856A		KAND	02 07 0905	S14 E34	02 9.9			CSO		3	6	4
8856A	29570	MWIL	02 07 1600	S15 E29	02 9.9	4	(BG)					
8856A		VORO	02 08 0110	S15 E24	02 9.9			AXX	14	1		2
8856A		KAND	02 08 0835	S14 E18	02 9.7			HA		3	2	3
8856A		VORO	02 08 2330	S15 E10	02 9.7			AXX	17	1		2
8856A		KAND	02 09 0755	S14 E06	02 9.8			CAO		3	3	2
8856A	29570	MWIL	02 09 1630	S15 E01	02 9.8	5	(BP)					
8856A		VORO	02 10 0005	S14 W04	02 9.7			AXX	18	1		2
8856A		VORO	02 10 2356	S14 W17	02 9.7			AXX	21	1		2
8856A	29570	MWIL	02 11 1600	S14 W27	02 9.6	4	AP					
8856A		VORO	02 12 0105	S14 W31	02 9.7			AXX	12	1		2
8858		RAMY	02 03 1259	N23 E79	02 9.6		A	HR	20	1	1	3
8858	29567	MWIL	02 03 1545	N22 E78	02 9.6	4	AF					
8858		HOLL	02 03 1658	N26 E73	02 9.4		A	AX	30	1	2	3
8858		TACH	02 04 0508	N24 E73	02 9.8			DRO	55	2	8	3
8858		SVTO	02 04 0717	N23 E70	02 9.7		B	DAO	90	2	9	3
8858		RAMY	02 04 1220	N26 E74	02 10.3		B	ESO	60	5	15	2
8858		HOLL	02 04 1651	N28 E68	02 10.0		B	BXO	120	7	12	3
8858		LEAR	02 05 0120	N24 E64	02 10.0		B	EAI	160	7	12	4
8858		VORO	02 05 0247	N25 E65	02 10.1			DAO	137	2	6	2
8858		TACH	02 05 0435	N24 E61	02 9.9			DAI	60	3	11	2
8858		KAND	02 05 0810	N25 E60	02 10.0			FAO		3	16	3
8858		SVTO	02 05 0933	N26 E60	02 10.0		B	EAO	120	8	15	3
8858		RAMY	02 05 1253	N26 E60	02 10.2		B	EAI	100	15	12	4
8858		HOLL	02 05 1602	N28 E55	02 10.0		B	CSO	200	13	12	3
8858	29567	MWIL	02 05 1700	N25 E57	02 10.1	4	(D)					
8858	29569	MWIL	02 05 1700	N28 E57	02 10.2	4	(B)					
8858		LEAR	02 06 0040	N25 E53	02 10.1		B	EAO	120	20	12	3
8858		VORO	02 06 0130	N25 E53	02 10.2			DAO	162	6	6	2
8858		SVTO	02 06 0725	N28 E51	02 10.3		B	EAI	110	14	13	4
8858		KAND	02 06 1005	N25 E49	02 10.2			DAO		12	8	3
8858		KAND	02 06 1005	N29 E49	02 10.3			BXI		14	5	3
8858		RAMY	02 06 1246	N29 E46	02 10.1		B	EAO	110	26	13	3
8858	29567	MWIL	02 06 1600	N24 E45	02 10.1	4	(D)					
8858	29569	MWIL	02 06 1600	N28 E45	02 10.2	4	(BG)					
8858		HOLL	02 06 1625	N27 E41	02 9.9		BG	DAO	140	26	9	3
8858		VORO	02 06 2345	N25 E40	02 10.1			DAO	226	12	7	2
8858		LEAR	02 07 0130	N26 E40	02 10.2		B	ESO	170	24	14	4
8858		TACH	02 07 0442	N25 E37	02 10.1			DAI	168	8	7	3
8858		KAND	02 07 0905	N24 E35	02 10.1			DSO		5	10	4
8858		KAND	02 07 0905	N29 E35	02 10.1			DAO		8	8	4
8858		SVTO	02 07 1011	N27 E37	02 10.3		B	DAI	110	8	8	2
8858		RAMY	02 07 1248	N28 E33	02 10.1		B	DSO	80	23	10	3
8858	29567	MWIL	02 07 1600	N25 E32	02 10.1	5	(BG)					
8858	29569	MWIL	02 07 1600	N29 E32	02 10.2	4	(BG)					
8858		HOLL	02 07 1601	N28 E29	02 9.9		BG	DSO	60	15	7	3
8858		VORO	02 08 0110	N25 E26	02 10.1			DAO	139	13	7	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
8858		LEAR	02 08 0130	N26 E26	02 10.1		GD	DSO	140	22	10	3
8858		KAND	02 08 0835	N26 E22	02 10.1			CSO		3	9	3
8858		KAND	02 08 0835	N30 E22	02 10.1			BXO		16	8	3
8858		TACH	02 08 0910	N27 E19	02 9.9			CRI	155	14	7	3
8858		SVTO	02 08 1048	N28 E22	02 10.2		B	DSO	80	12	9	2
8858		RAMY	02 08 1334	N29 E19	02 10.0		B	CAO	40	16	10	3
8858		HOLL	02 08 1535	N28 E18	02 10.0		B	CAO	120	17	10	3
8858		VORO	02 08 2330	N24 E14	02 10.1			DAO	110	15	8	2
8858		LEAR	02 09 0146	N27 E13	02 10.1		B	DAO	120	17	10	3
8858		KAND	02 09 0755	N25 E10	02 10.1			CSO		4	10	2
8858		KAND	02 09 0755	N29 E11	02 10.2			DRO		8	6	2
8858		RAMY	02 09 1329	N27 E06	02 10.0		B	CSO	40	17	10	3
8858	29567	MWIL	02 09 1630	N25 E06	02 10.1	5	(BP)					
8858	29569	MWIL	02 09 1630	N29 E06	02 10.1	4	(BG)					
8858		HOLL	02 09 1648	N28 E05	02 10.1		B	CAO	30	14	11	2
8858		VORO	02 10 0005	N25 W00	02 10.0			DAO	91	6	8	2
8858		LEAR	02 10 0105	N26 E02	02 10.2		B	DSO	60	10	10	3
8858		TACH	02 10 0856	N26 W04	02 10.1			CRI	151	10	8	2
8858		HOLL	02 10 1847	N28 W09	02 10.1		B	CSO	30	15	10	2
8858		VORO	02 10 2356	N25 W13	02 10.0			DAO	85	5	7	2
8858		LEAR	02 11 0110	N24 W13	02 10.0		B	CSO	40	12	12	3
8858		TACH	02 11 0548	N26 W15	02 10.1			CAI	89	12	9	3
8858		HOLL	02 11 1615	N25 W22	02 10.0		BG	DAO	40	8	10	3
8858		VORO	02 12 0105	N26 W26	02 10.0			DAO	51	6	9	2
8858		LEAR	02 12 0150	N25 W24	02 10.2		B	CSO	40	11	11	4
8858		TACH	02 12 0516	N25 W27	02 10.1			DRO	80	3	10	3
8858		SVTO	02 12 1304	N26 W33	02 10.0		B	ESO	40	5	11	2
8858		HOLL	02 12 1526	N24 W36	02 9.9		BG	DSO	30	3	10	4
8858		LEAR	02 13 0100	N25 W37	02 10.2		B	DSO	40	5	7	4
8858		VORO	02 13 0121	N25 W36	02 10.3			DAO	29	3	5	2
8858		TACH	02 13 0634	N24 W38	02 10.3			BRO	11	2	6	3
8858		KAND	02 13 0815	N24 W42	02 10.1			CSO		2	5	4
8858		RAMY	02 13 1304	N23 W44	02 10.1		B	BXO	10	3	6	4
8858		HOLL	02 13 1558	N24 W47	02 10.0		B	CSO	10	3	6	4
8858		VORO	02 13 2336	N24 W52	02 10.0			AXX	18	1		2
8858		LEAR	02 14 0035	N25 W49	02 10.2		B	CSO	40	7	5	4
8858		TACH	02 14 0642	N24 W55	02 10.0			AXX	15	1	1	3
8858		SVTO	02 14 0654	N25 W56	02 9.9		A	HR	10	2	2	3
8858		KAND	02 14 0845	N23 W56	02 10.0			AX		1		3
8858		RAMY	02 14 1230	N24 W59	02 10.0		B	BXO		2	2	3
8858		VORO	02 14 2324	N25 W60	02 10.3			CAO	36	2	10	3
8858		LEAR	02 15 0052	N25 W60	02 10.4		B	ESO	40	2	11	3
8858		SVTO	02 16 0927	N29 W78	02 10.3		B	DAO	90	2	10	3
8858A		RAMY	02 08 1334	S12 E27	02 10.6		A	AX		1		3
8858A		HOLL	02 08 1535	S12 E26	02 10.6		A	AX		1		3
8858B		RAMY	02 14 1230	N26 W47	02 10.9		B	BXO	10	4	4	3
8858B		HOLL	02 14 1754	N26 W50	02 10.9		B	BXO	10	4	5	3
8858B		SVTO	02 15 0816	N27 W60	02 10.7		A	HA	50	1	1	2
8858B		RAMY	02 15 1356	N24 W64	02 10.6		B	BXO	10	2	2	3
8858B		RAMY	02 15 1356	N26 W62	02 10.8		B	CAO	50	2	8	3
8858B	29567	MWIL	02 15 1530	N27 W61	02 10.9	4	(BP)					
8858B		HOLL	02 15 1646	N26 W63	02 10.8		B	CAO	90	4	6	2
8858B		VORO	02 15 2324	N27 W66	02 10.8			CAO	157	2	5	2
8858B		LEAR	02 16 0125	N27 W66	02 10.9		B	DAO	120	3	6	3
8858B		TACH	02 16 0440	N28 W68	02 10.9			HRO	45	2	2	3
8858B		RAMY	02 16 1330	N27 W73	02 10.9		B	DAO	90	2	7	3
8858B		HOLL	02 16 1611	N26 W71	02 11.1		B	BXO	90	2	6	3
8858B		VORO	02 16 2334	N28 W77	02 11.0			HAX	57	1		2
8871A		RAMY	02 15 1356	N10 W59	02 11.1		B	BXO		2	2	3
8871A	29583	MWIL	02 15 1530	N11 W59	02 11.2	4	(BF)					
8871A		HOLL	02 15 1646	N09 W59	02 11.3		A	HS	20	2	1	2
8871A		LEAR	02 16 0125	N11 W63	02 11.3		B	BXO		2	3	3
8871		HOLL	02 10 1847	S13 E08	02 11.4		A	AX	10	1		2
8871		LEAR	02 11 0110	S15 E03	02 11.3		B	BXO		3	1	3
8871		TACH	02 11 0548	S14 W00	02 11.2			AXX	40	3	1	3

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8871	29579	MWIL	02	11	1600	S15	W06	02	11.2	4	AP					
8871		HOLL	02	11	1615	S14	W06	02	11.2		A	HR	20	2	2	3
8871		LEAR	02	12	0150	S14	W10	02	11.3		B	CSO	40	6	5	4
8871		TACH	02	12	0516	S13	W14	02	11.2			AXX	10	1	1	3
8871		SVTO	02	12	1304	S14	W20	02	11.0		B	CSO	20	3	4	2
8871		HOLL	02	12	1526	S15	W20	02	11.1		B	BXO	20	4	3	4
8871		LEAR	02	13	0100	S15	W23	02	11.3		B	CSO	30	5	5	4
8871		VORO	02	13	0121	S14	W24	02	11.2			AXX	18	5		2
8871		TACH	02	13	0634	S14	W27	02	11.2			AXX	25	1	2	3
8871		KAND	02	13	0815	S14	W29	02	11.1			CSO		3	2	4
8871		RAMY	02	13	1304	S15	W30	02	11.3		B	BXO	10	12	6	4
8871		HOLL	02	13	1558	S16	W30	02	11.4		B	CAO	40	6	5	4
8871		VORO	02	13	2336	S15	W35	02	11.3			CAI	88	11	5	2
8871		LEAR	02	14	0035	S14	W35	02	11.4		B	DAO	60	15	5	4
8871		TACH	02	14	0642	S14	W38	02	11.4			CRO	158	8	15	3
8871		SVTO	02	14	0654	S14	W39	02	11.3		B	DAO	60	10	7	3
8871		KAND	02	14	0845	S15	W40	02	11.3			CAO		4	6	3
8871		RAMY	02	14	1230	S15	W43	02	11.3		B	DAO	50	10	6	3
8871		HOLL	02	14	1754	S17	W45	02	11.3		B	CAO	60	8	6	3
8871		VORO	02	14	2324	S16	W49	02	11.2			BXI	40	9	5	3
8871		LEAR	02	15	0052	S15	W49	02	11.3		B	CAO	50	8	6	3
8871		SVTO	02	15	0816	S15	W57	02	11.0		A	HAO	20	2	2	2
8871		RAMY	02	15	1356	S15	W57	02	11.3		B	BXO		3	5	3
8871	29579	MWIL	02	15	1530	S14	W60	02	11.1	4	(BP)					
8871		HOLL	02	15	1646	S16	W59	02	11.2		A	HS	20	2	2	2
8871		LEAR	02	16	0125	S14	W62	02	11.4		B	BXO		2	6	3
8867		LEAR	02	09	0146	S15	E44	02	12.4		B	BXO	10	3	3	3
8867		KAND	02	09	0755	S14	E40	02	12.3			BXO		2	3	2
8867		RAMY	02	09	1329	S14	E36	02	12.3		B	BXO	10	5	4	3
8867	29576	MWIL	02	09	1630	S15	E36	02	12.4	4	(B)					
8867		HOLL	02	09	1648	S12	E36	02	12.4		B	BXO	10	5	5	2
8867		LEAR	02	10	0105	S15	E31	02	12.4		B	BXO		3	4	3
8867		TACH	02	10	0856	S13	E26	02	12.3			BRO	10	2	3	2
8867	29576	MWIL	02	11	1600	S12	E12	02	12.6	4	B					
8867		HOLL	02	11	1615	S16	E12	02	12.6		B	BXO	20	7	4	3
8867		VORO	02	11	2356	S17	E05	02	12.4			AXX	28	5		2
8867		LEAR	02	12	0150	S17	E06	02	12.5		B	CSO	30	11	5	4
8867		TACH	02	12	0516	S14	E05	02	12.6			HSX	220	1	2	3
8867		TACH	02	12	0516	S16	E03	02	12.4			BRO	5	3	3	3
8867		SVTO	02	12	1304	S16	W02	02	12.4		B	DRO	30	6	4	2
8867		HOLL	02	12	1526	S16	W04	02	12.3		B	BXO	20	8	4	4
8867		LEAR	02	13	0100	S16	W07	02	12.5		B	DRO	50	11	5	4
8867		VORO	02	13	0121	S17	W06	02	12.6			AXX	32	5		2
8867		TACH	02	13	0634	S16	W11	02	12.4			BRO	19	6	6	3
8867		KAND	02	13	0815	S16	W12	02	12.4			DAO		8	6	4
8867		RAMY	02	13	1304	S16	W13	02	12.5		B	BXO	20	13	7	4
8867		HOLL	02	13	1558	S16	W14	02	12.6		B	CAO	30	11	12	4
8867		VORO	02	13	2336	S17	W21	02	12.4			CAI	71	4	6	2
8867		LEAR	02	14	0035	S16	W20	02	12.5		B	CAO	40	10	6	4
8867		TACH	02	14	0642	S16	W24	02	12.4			BRO	54	4	8	3
8867		SVTO	02	14	0654	S16	W25	02	12.4		B	DAO	30	7	7	3
8867		KAND	02	14	0845	S17	W26	02	12.4			DAO		3	7	3
8867		RAMY	02	14	1230	S16	W28	02	12.4		B	DSO	40	12	6	3
8867		HOLL	02	14	1754	S16	W31	02	12.4		B	CSO	30	13	8	3
8867		VORO	02	14	2324	S17	W34	02	12.4			DAI	94	11	6	3
8867		LEAR	02	15	0052	S16	W35	02	12.4		B	DSO	70	7	8	3
8867		SVTO	02	15	0816	S14	W39	02	12.4		B	DAO	80	8	8	2
8867		RAMY	02	15	1356	S16	W43	02	12.3		B	DAO	50	14	8	3
8867	29576	MWIL	02	15	1530	S16	W43	02	12.4	4	(B)					
8867		HOLL	02	15	1646	S17	W44	02	12.3		B	DSO	80	17	8	2
8867		VORO	02	15	2324	S18	W44	02	12.6			CAI	89	6	3	2
8867		LEAR	02	16	0125	S15	W48	02	12.4		B	DAO	50	10	8	3
8867		TACH	02	16	0440	S15	W46	02	12.7			BRO	43	7	5	3
8867		SVTO	02	16	0927	S16	W54	02	12.3		B	DAO	130	8	9	3
8867		RAMY	02	16	1330	S17	W55	02	12.4		B	DAO	110	10	10	3
8867		HOLL	02	16	1611	S16	W56	02	12.4		B	CRO	160	11	8	3
8867		VORO	02	16	2334	S17	W62	02	12.3			CAI	100	8	8	2
8867		LEAR	02	17	0055	S16	W60	02	12.5		B	DAO	100	15	9	4

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8867		TACH	02 17 0545	S12 W64	02 12.4			CAI	67	5	7	3
8867		KAND	02 17 1150	S17 W68	02 12.3			CAO		4	7	3
8867		RAMY	02 17 1204	S16 W70	02 12.2		B	DSO	70	3	10	3
8867		SVTO	02 17 1224	S16 W66	02 12.5		B	DAO	120	5	6	2
8867		HOLL	02 17 1612	S16 W70	02 12.4		B	CSO	130	5	9	2
8867		VORO	02 17 2333	S17 W72	02 12.5			HAX	129	3		3
8867		LEAR	02 18 0055	S16 W72	02 12.6		B	CAO	90	7	9	3
8867		TACH	02 18 0515	S15 W73	02 12.7			HSX	80	1	1	3
8867		TACH	02 18 0515	S16 W70	02 12.9			HSX	130	3	1	3
8867		SVTO	02 18 1010	S17 W79	02 12.4		A	HA	120	4	3	3
8867		RAMY	02 18 1245	S17 W78	02 12.6		A	HA	80	3	2	2
8867		HOLL	02 18 1601	S16 W79	02 12.7		B	CSO	120	2	4	2
8867	29576	MWIL	02 18 2230	S16 W82	02 12.7	4	AF					
8867		VORO	02 18 2335	S17 W87	02 12.4			HAX	57	1		2
8867		LEAR	02 19 0205	S16 W86	02 12.6		A	HA	60	1	5	3
8862		VORO	02 06 0130	S06 E85	02 12.4			HAX	267	1		2
8862		SVTO	02 06 0725	S05 E85	02 12.7		A	HS	100	1	4	4
8862		KAND	02 06 1005	S05 E85	02 12.8			HS		1	2	3
8862		RAMY	02 06 1246	S05 E80	02 12.5		A	HS	60	1	1	3
8862	29573	MWIL	02 06 1600	S06 E79	02 12.6	4	(AP)					
8862		HOLL	02 06 1625	S03 E77	02 12.4		A	HA	120	1	2	3
8862		LEAR	02 07 0130	S06 E71	02 12.4		A	HA	120	1	3	4
8862		TACH	02 07 0442	S07 E75	02 12.8			HSX	100	1	2	3
8862		KAND	02 07 0905	S05 E71	02 12.7			HA		1	2	4
8862		SVTO	02 07 1011	S07 E69	02 12.6		A	HS	110	1	2	2
8862		RAMY	02 07 1248	S05 E67	02 12.5		A	HS	130	1	2	3
8862	29573	MWIL	02 07 1600	S06 E66	02 12.6	5	(AP)					
8862		HOLL	02 07 1601	S04 E66	02 12.6		A	HA	90	1	1	3
8862		VORO	02 08 0110	S06 E61	02 12.6			HAX	214	1		2
8862		LEAR	02 08 0130	S06 E59	02 12.5		A	HA	150	1	2	3
8862		KAND	02 08 0835	S05 E57	02 12.6			HA		1	3	3
8862		TACH	02 08 0910	S06 E56	02 12.6			HSX	250	1	2	3
8862		SVTO	02 08 1048	S05 E54	02 12.5		A	HA	100	1	2	2
8862		RAMY	02 08 1334	S04 E54	02 12.6		A	HA	180	1	2	3
8862		HOLL	02 08 1535	S04 E52	02 12.5		A	HS	150	1	2	3
8862		VORO	02 08 2330	S06 E48	02 12.6			HAX	215	1		2
8862		LEAR	02 09 0146	S07 E47	02 12.6		A	HS	140	2	2	3
8862		KAND	02 09 0755	S06 E44	02 12.6			HS		2	3	2
8862		RAMY	02 09 1329	S05 E38	02 12.4		A	HS	170	1	2	3
8862	29573	MWIL	02 09 1630	S06 E40	02 12.7	5	(BP)					
8862		HOLL	02 09 1648	S04 E40	02 12.7		B	CSO	100	2	4	2
8862		VORO	02 10 0005	S06 E35	02 12.6			HAX	203	1		2
8862		LEAR	02 10 0105	S07 E33	02 12.5		A	HS	140	1	2	3
8862		TACH	02 10 0856	S04 E29	02 12.5			HSX	300	1	2	2
8862		HOLL	02 10 1847	S05 E23	02 12.5		A	HS	150	1	2	2
8862		VORO	02 10 2356	S06 E21	02 12.6			HAX	233	1		2
8862		LEAR	02 11 0110	S07 E20	02 12.5		A	HS	150	1	3	3
8862		TACH	02 11 0548	S05 E17	02 12.5			HSX	350	1	2	3
8862	29573	MWIL	02 11 1600	S06 E12	02 12.6	5	AP					
8862		HOLL	02 11 1615	S06 E12	02 12.6		A	HS	150	2	2	3
8862		VORO	02 12 0105	S05 E07	02 12.6			HAX	159	1		2
8862		LEAR	02 12 0150	S06 E08	02 12.7		A	HS	150	2	3	4
8862		SVTO	02 12 1304	S06 W01	02 12.5		A	HA	100	1	2	2
8862		HOLL	02 12 1526	S06 W03	02 12.4		A	HS	150	1	2	4
8862		LEAR	02 13 0100	S06 W06	02 12.6		A	HS	150	2	2	4
8862		VORO	02 13 0121	S05 W07	02 12.5			HAX	146	1		2
8862		TACH	02 13 0634	S05 W10	02 12.5			HSX	200	1	2	3
8862		KAND	02 13 0815	S06 W11	02 12.5			HA		1	2	4
8862		RAMY	02 13 1304	S06 W14	02 12.5		A	HS	150	1	2	4
8862		HOLL	02 13 1558	S07 W16	02 12.5		A	HS	150	1	2	4
8862		VORO	02 13 2336	S06 W20	02 12.5			HHX	165	1		2
8862		LEAR	02 14 0035	S06 W20	02 12.5		A	HS	160	1	2	4
8862		TACH	02 14 0642	S05 W23	02 12.5			HSX	300	1	2	3
8862		SVTO	02 14 0654	S06 W24	02 12.5		A	HA	120	1	3	3
8862		KAND	02 14 0845	S06 W24	02 12.6			HS		1	3	3
8862		RAMY	02 14 1230	S06 W27	02 12.5		A	HS	170	2	2	3
8862		HOLL	02 14 1754	S08 W30	02 12.5		A	HS	100	1	2	3
8862		VORO	02 14 2324	S06 W33	02 12.5			HHX	179	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
8862		LEAR	02 15 0052	S06 W34	02 12.5		A	HS	140	1	2	3
8862		SVTO	02 15 0816	S06 W38	02 12.5		A	HA	100	1	2	2
8862		RAMY	02 15 1356	S06 W42	02 12.4		A	HS	140	1	2	3
8862	29573	MWIL	02 15 1530	S05 W41	02 12.6	5	(AP)					
8862		HOLL	02 15 1646	S07 W43	02 12.5		A	HS	90	1	2	2
8862		VORO	02 15 2324	S06 W46	02 12.5			HHX	169	1		2
8862		LEAR	02 16 0125	S06 W46	02 12.6		A	HS	140	1	2	3
8862		TACH	02 16 0440	S05 W47	02 12.7			HSX	110	1	2	3
8862		SVTO	02 16 0927	S06 W52	02 12.5		A	HA	90	1	3	3
8862		RAMY	02 16 1330	S07 W54	02 12.5		A	HS	140	1	2	3
8862		HOLL	02 16 1611	S06 W56	02 12.5		A	HS	150	1	2	3
8862		VORO	02 16 2334	S06 W60	02 12.5			HSX	188	1		2
8862		LEAR	02 17 0055	S06 W60	02 12.5		A	HS	120	1	2	4
8862		TACH	02 17 0545	S02 W61	02 12.7			HSX	60	1	1	3
8862		KAND	02 17 1150	S06 W67	02 12.5			HS		1	2	3
8862		RAMY	02 17 1204	S06 W66	02 12.6		A	HS	90	1	2	3
8862		SVTO	02 17 1224	S05 W66	02 12.6		A	HA	100	1	3	2
8862		HOLL	02 17 1612	S06 W70	02 12.4		A	HS	130	1	2	2
8862		VORO	02 17 2333	S06 W74	02 12.4			HAX	113	1		3
8862		LEAR	02 18 0055	S06 W72	02 12.6		A	HS	90	1	2	3
8862		SVTO	02 18 1010	S06 W85	02 12.1		A	HA	60	1	5	3
8862		RAMY	02 18 1245	S06 W81	02 12.5		A	HS	40	1	1	2
8862		HOLL	02 18 1601	S06 W80	02 12.7		A	HS	120	1	2	2
8862	29573	MWIL	02 18 2230	S05 W88	02 12.3	5	AP					
8868		LEAR	02 09 0146	S24 E44	02 12.5		B	BXO	20	5	4	3
8868		KAND	02 09 0755	S23 E42	02 12.6			DSO		6	5	2
8868		RAMY	02 09 1329	S24 E38	02 12.5		B	CRO	20	8	5	3
8868		HOLL	02 09 1648	S22 E38	02 12.6		B	CSO	30	7	6	2
8868		VORO	02 10 0005	S23 E34	02 12.6			BXO	68	5	5	2
8868		LEAR	02 10 0105	S24 E33	02 12.6		B	CSO	40	11	8	3
8868		TACH	02 10 0856	S23 E28	02 12.5			DRO	142	10	6	2
8868		HOLL	02 10 1847	S22 E23	02 12.5		B	DAO	50	10	7	2
8868		LEAR	02 11 0110	S24 E18	02 12.4		B	DSO	70	14	8	3
8868		TACH	02 11 0548	S22 E16	02 12.5			CAO	128	10	7	3
8868	29577	MWIL	02 11 1600	S24 E10	02 12.4	4	B					
8868		HOLL	02 11 1615	S23 E12	02 12.6		B	DSO	50	11	8	3
8868		VORO	02 11 2356	S23 E05	02 12.4			DAO	75	6	5	2
8868		LEAR	02 12 0150	S25 E05	02 12.5		B	DSO	100	15	9	4
8868		TACH	02 12 0516	S22 E04	02 12.5			BAI	42	5	9	3
8868		SVTO	02 12 1304	S24 W01	02 12.5		B	CSO	50	5	9	2
8868		HOLL	02 12 1526	S23 W03	02 12.4		B	DSO	50	6	9	4
8868		LEAR	02 13 0100	S24 W07	02 12.5		B	DSO	90	12	9	4
8868		VORO	02 13 0121	S21 W09	02 12.4			DAO	65	6	5	2
8868		TACH	02 13 0634	S24 W13	02 12.3			HSX	51	2	2	3
8868		KAND	02 13 0815	S24 W11	02 12.5			CAO		5	8	4
8868		RAMY	02 13 1304	S24 W17	02 12.2		B	CSO	30	3	3	4
8868		HOLL	02 13 1558	S24 W17	02 12.3		B	CSO	30	2	3	4
8868		VORO	02 13 2336	S25 W23	02 12.2			HAX	40	2		2
8868		LEAR	02 14 0035	S24 W22	02 12.3		B	CSO	30	5	3	4
8868		TACH	02 14 0642	S24 W26	02 12.3			HSX	60	1	1	3
8868		SVTO	02 14 0654	S24 W27	02 12.2		B	CSO	20	3	3	3
8868		KAND	02 14 0845	S24 W28	02 12.2			HS		1	1	3
8868		RAMY	02 14 1230	S24 W30	02 12.2		A	HS	20	1	1	3
8868		HOLL	02 14 1754	S26 W32	02 12.2		A	HS	20	1	1	3
8868		VORO	02 14 2324	S25 W36	02 12.2			HAX	39	2		3
8868		LEAR	02 15 0052	S24 W37	02 12.2		A	HS	20	1	1	3
8868		SVTO	02 15 0816	S25 W41	02 12.2		A	HA	30	1	2	2
8868		RAMY	02 15 1356	S25 W45	02 12.1		A	HS	10	1	1	3
8868	29577	MWIL	02 15 1530	S24 W44	02 12.2	4	(AP)					
8868		HOLL	02 15 1646	S25 W45	02 12.2		A	HS	20	1	1	2
8868		VORO	02 15 2324	S24 W49	02 12.2			HAX	29	1		2
8868		LEAR	02 16 0125	S24 W48	02 12.3		A	HS	20	1	1	3
8868		TACH	02 16 0440	S22 W50	02 12.3			AXX	15	1	1	3
8868		SVTO	02 16 0927	S24 W55	02 12.1		A	HR	20	1	1	3
8868		RAMY	02 16 1330	S25 W56	02 12.2		A	HS	20	1	2	3
8868		HOLL	02 16 1611	S24 W57	02 12.3		A	AX	20	1	1	3
8868		VORO	02 16 2334	S24 W62	02 12.2			AXX	17	1		2
8868		LEAR	02 17 0055	S23 W61	02 12.3		A	HR	20	1	1	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
8868		TACH	02 17 0545	S21 W60	02 12.6			AXX	3	1	1	3
8868		RAMY	02 17 1204	S24 W69	02 12.2		A	AX		1		3
8868		SVTO	02 17 1224	S23 W68	02 12.3		A	HR		1		2
8868		HOLL	02 17 1612	S23 W71	02 12.2		A	AX	20	1	1	2
8868		VORO	02 17 2333	S24 W75	02 12.2			AXX	8	1		3
8863A		HOLL	02 11 1615	S05 E21	02 13.2		B	BXO	10	4	2	3
8866		RAMY	02 08 1334	N17 E70	02 13.9		A	AX		1		3
8866		HOLL	02 08 1535	N18 E66	02 13.7		A	AX		1		3
8866		LEAR	02 09 0146	N15 E63	02 13.8		A	AX		1		3
8866	29578	MWIL	02 09 1630	N16 E55	02 13.8	2	AP					
8878	29577	MWIL	02 09 1630	S24 E57	02 14.1	4	(B)					
8878		RAMY	02 14 1230	S25 W09	02 13.8		A	AX		2	1	3
8878		RAMY	02 15 1356	S28 W22	02 13.9		B	BXO		2	4	3
8878	29584	MWIL	02 15 1530	S28 W24	02 13.8	3	(AF)					
8878		TACH	02 16 0440	S26 W30	02 13.9			BRO	3	3	1	3
8878		SVTO	02 16 0927	S27 W35	02 13.7		B	CRO	20	3	5	3
8878		RAMY	02 16 1330	S26 W36	02 13.8		B	DSO	20	2	4	3
8878		HOLL	02 16 1611	S27 W37	02 13.8		B	BXO	50	6	4	3
8878		VORO	02 16 2334	S26 W42	02 13.7			CAO	42	3	4	2
8878		LEAR	02 17 0055	S25 W42	02 13.8		B	DAO	40	6	4	4
8878		TACH	02 17 0545	S22 W45	02 13.8			BRO	3	2	4	3
8878		KAND	02 17 1150	S26 W50	02 13.6			CAO		2	5	3
8878		RAMY	02 17 1204	S27 W50	02 13.6		B	DSO	30	2	5	3
8878		SVTO	02 17 1224	S26 W49	02 13.7		B	DAO	50	2	5	2
8878		HOLL	02 17 1612	S26 W52	02 13.6		B	CSO	80	2	5	2
8878		VORO	02 17 2333	S27 W56	02 13.6			CAO	29	2	6	3
8878		LEAR	02 18 0055	S25 W59	02 13.5		A	HR	20	1	1	3
8878		TACH	02 18 0515	S25 W59	02 13.6			HSX	60	1	1	3
8878		SVTO	02 18 1010	S26 W65	02 13.4		A	HR	10	1		3
8878		RAMY	02 18 1245	S27 W65	02 13.5		B	BXO	10	2	2	2
8878		HOLL	02 18 1601	S26 W66	02 13.5		A	AX	20	1	1	2
8878	29593	MWIL	02 18 2230	S25 W70	02 13.5	4	(AP)					
8878		VORO	02 18 2335	S26 W71	02 13.5			BXO	19	2	4	2
8878		LEAR	02 19 0205	S25 W73	02 13.4		A	HR	30	1	1	3
8878		RAMY	02 19 1230	S25 W80	02 13.3		A	AX		1		3
8878	29593	MWIL	02 19 1700	S25 W85	02 13.1	3	(AP)					
8863	29575	MWIL	02 07 1600	S16 E88	02 14.3	4	AP					
8863		VORO	02 08 0110	S15 E80	02 14.1			HAX	39	1		2
8863		LEAR	02 08 0130	S15 E78	02 14.0		A	HS	60	1	2	3
8863		KAND	02 08 0835	S14 E80	02 14.4			HS		1	2	3
8863		TACH	02 08 0910	S14 E77	02 14.2			HSX	20	1	1	3
8863		SVTO	02 08 1048	S14 E75	02 14.1		A	HR	30	1	1	2
8863		RAMY	02 08 1334	S13 E78	02 14.4		B	CSO	30	2	5	3
8863		HOLL	02 08 1535	S13 E76	02 14.4		B	CSO	30	3	6	3
8863		LEAR	02 09 0146	S15 E69	02 14.3		B	DSO	70	3	4	3
8863		KAND	02 09 0755	S14 E67	02 14.4			CSO		3	4	2
8863		RAMY	02 09 1329	S14 E61	02 14.2		A	HR	20	2	2	3
8863	29575	MWIL	02 09 1630	S16 E60	02 14.2	4	(AP)					
8863		HOLL	02 09 1648	S13 E61	02 14.3		A	HA	40	1	1	2
8863		VORO	02 10 0005	S14 E57	02 14.3			AXX	15	1		2
8863		LEAR	02 10 0105	S16 E56	02 14.3		A	HA	30	1	1	3
8863		TACH	02 10 0856	S14 E51	02 14.2			AXX	25	1	1	2
8863		HOLL	02 10 1847	S13 E46	02 14.2		A	AX		2		2
8863		LEAR	02 11 0110	S16 E42	02 14.2		A	AX		2		3
8863B		RAMY	02 15 1356	S14 W08	02 15.0		A	AX		1		3
8863B	29585	MWIL	02 15 1530	S14 W08	02 15.0	3	(AP)					
8880		RAMY	02 19 1230	S08 W49	02 15.8		A	AX		1		3
8880		HOLL	02 19 1631	S08 W53	02 15.7		A	AX		1		4
8880	29595	MWIL	02 19 1700	S08 W52	02 15.8	3	(AP)					
8880		SVTO	02 20 0900	S09 W68	02 15.3		A	HR		1		2
8880		RAMY	02 20 1243	S08 W63	02 15.8		B	BXO	10	3	4	3
8880		HOLL	02 20 1548	S08 W65	02 15.8		B	BXO	10	3	5	1
8880		LEAR	02 21 0045	S06 W67	02 16.0		B	CRO	30	2	4	4

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8880		TACH	02 21	0455	S06 W74	02 15.7			AXX	5	2	7	3
8880		SVTO	02 21	0659	S06 W74	02 15.7		A	AX	10	1	1	3
8869		LEAR	02 10	0105	S26 E80	02 16.3		A	HA	20	1	2	3
8869		TACH	02 10	0856	S24 E78	02 16.4			HXX	20	1	1	2
8869		HOLL	02 10	1847	S24 E75	02 16.6		B	CSO	30	2	8	2
8869		VORO	02 10	2356	S24 E70	02 16.4			HAX	70	3		2
8869		TACH	02 11	0548	S26 E71	02 16.7			CAO	57	4	8	3
8869	29581	MWIL	02 11	1600	S26 E67	02 16.9	4	B					
8869		HOLL	02 11	1615	S25 E65	02 16.7		B	CSO	70	5	10	3
8869		VORO	02 12	0105	S23 E56	02 16.4			HAX	43	1		2
8869		LEAR	02 12	0150	S25 E60	02 16.7		B	CSO	60	5	11	4
8869		TACH	02 12	0516	S20 E62	02 17.0			HSX	50	1	1	3
8869		TACH	02 12	0516	S24 E56	02 16.5			BRO	25	2	4	3
8869		SVTO	02 12	1304	S26 E54	02 16.7		B	CAO	40	6	11	2
8869		HOLL	02 12	1526	S23 E52	02 16.6		B	CSO	50	4	10	4
8869		LEAR	02 13	0100	S25 E48	02 16.8		B	ESO	60	6	11	4
8869		VORO	02 13	0121	S23 E46	02 16.6			HAX	52	2	9	2
8869		TACH	02 13	0634	S24 E44	02 16.7			BRO	50	2	2	3
8869		KAND	02 13	0815	S24 E43	02 16.7			ESO		2	12	4
8869		RAMY	02 13	1304	S24 E41	02 16.7		B	ESO	30	6	12	4
8869		HOLL	02 13	1558	S23 E41	02 16.8		B	EAO	40	3	11	4
8869		VORO	02 13	2336	S25 E36	02 16.8			DAI	44	4	11	2
8869		LEAR	02 14	0035	S24 E35	02 16.7		B	ESO	40	7	12	4
8869		TACH	02 14	0642	S19 E29	02 16.5			CRO	66	6	17	3
8869		SVTO	02 14	0654	S24 E32	02 16.7		B	ESO	20	4	12	3
8869		KAND	02 14	0845	S23 E28	02 16.5			CSO		2	8	3
8869		RAMY	02 14	1230	S24 E27	02 16.6		B	CSO	20	4	10	3
8869		HOLL	02 14	1754	S23 E24	02 16.6		B	CSO	30	3	8	3
8869		VORO	02 14	2324	S24 E21	02 16.6			BXO	32	5	7	3
8869		LEAR	02 15	0052	S24 E19	02 16.5		B	DSO	30	3	8	3
8869		SVTO	02 15	0816	S23 E16	02 16.6		B	DAO	40	4	8	2
8869		RAMY	02 15	1356	S23 E08	02 16.2		B	CRO	10	4	4	3
8869	29581	MWIL	02 15	1530	S23 E08	02 16.3	4	(B)					
8869		HOLL	02 15	1646	S22 E08	02 16.3		B	CSO	10	5	4	2
8869		VORO	02 15	2324	S23 E06	02 16.4			BXI	36	4	3	2
8869		LEAR	02 16	0125	S23 E04	02 16.4		B	DSO	60	9	6	3
8869		TACH	02 16	0440	S20 E03	02 16.4			BRI	46	5	3	3
8869		SVTO	02 16	0927	S23 W01	02 16.3		B	DAO	90	11	7	3
8869		RAMY	02 16	1330	S23 W03	02 16.3		B	DSI	90	11	8	3
8869		HOLL	02 16	1611	S22 W04	02 16.4		B	DSO	130	20	8	3
8869		VORO	02 16	2334	S21 W09	02 16.3			DAI	124	11	8	2
8869		LEAR	02 17	0055	S22 W08	02 16.4		B	DAO	100	25	8	4
8869		TACH	02 17	0545	S20 W13	02 16.2			CAI	128	6	7	3
8869		KAND	02 17	1150	S22 W16	02 16.3			CAO		21	10	3
8869		RAMY	02 17	1204	S22 W16	02 16.3		BG	DAI	220	21	10	3
8869		SVTO	02 17	1224	S21 W16	02 16.3		B	EAO	60	14	12	2
8869		HOLL	02 17	1612	S22 W18	02 16.3		B	CSO	220	23	10	2
8869		VORO	02 17	2333	S19 W20	02 16.4			BXO	21	3	4	3
8869		VORO	02 17	2333	S23 W23	02 16.2			DAI	204	14	9	3
8869		LEAR	02 18	0055	S21 W22	02 16.3		B	DAO	120	24	11	3
8869		TACH	02 18	0515	S20 W25	02 16.3			CAI	230	25	10	3
8869		SVTO	02 18	1010	S21 W28	02 16.3		B	EAI	230	27	13	3
8869		RAMY	02 18	1245	S18 W28	02 16.4		B	DAO	30	12	8	2
8869		RAMY	02 18	1245	S22 W31	02 16.1		B	EAO	160	18	11	2
8869		HOLL	02 18	1601	S22 W31	02 16.3		B	EAO	240	35	13	2
8869	29581	MWIL	02 18	2230	S20 W35	02 16.3	4	(BG)					
8869		VORO	02 18	2335	S19 W34	02 16.4			DAI	101	11	8	2
8869		VORO	02 18	2335	S22 W37	02 16.1			DAI	135	8	11	2
8869		LEAR	02 19	0205	S21 W37	02 16.2		B	EAO	220	35	14	3
8869		KAND	02 19	1230	S20 W42	02 16.3			FAO		37	16	2
8869		RAMY	02 19	1230	S20 W43	02 16.2		B	EAI	300	42	15	3
8869		HOLL	02 19	1631	S20 W45	02 16.2		BG	EAI	340	51	15	4
8869	29581	MWIL	02 19	1700	S20 W44	02 16.3	5	(BG)					
8869		VORO	02 20	0000	S19 W48	02 16.3			DAI	396	21	11	2
8869		VORO	02 20	0000	S23 W51	02 16.1			DAI	281	15	12	2
8869		LEAR	02 20	0235	S20 W49	02 16.3		BG	EAI	360	56	16	2
8869		TACH	02 20	0721	S20 W53	02 16.2			DAI	431	22	16	3
8869		SVTO	02 20	0900	S20 W53	02 16.3		BG	FAI	270	20	17	2

SUNSPOT GROUPS
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FEBRUARY 2000

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
8869		RAMY	02	20	1243	S21	W55	02	16.3		BG	FAC	620	36	18	3
8869		HOLL	02	20	1548	S20	W57	02	16.3		BG	FAI	320	28	16	1
8869		VORO	02	20	2317	S19	W61	02	16.3			DAI	702	11	12	2
8869		VORO	02	20	2317	S22	W66	02	15.9			DAO	224	4	12	2
8869		LEAR	02	21	0045	S19	W62	02	16.3		BG	EAI	450	41	15	4
8869		TACH	02	21	0455	S19	W64	02	16.3			DAI	438	12	15	3
8869		SVTO	02	21	0659	S18	W65	02	16.3		BG	FKI	570	26	17	3
8869		RAMY	02	21	1309	S21	W69	02	16.2		B	FKI	510	30	18	3
8869		HOLL	02	21	1559	S19	W71	02	16.2		BG	FAC	590	30	17	3
8869		LEAR	02	22	0104	S18	W75	02	16.3		BG	FKC	510	28	16	4
8869		VORO	02	22	0145	S19	W76	02	16.3			EAI	573	6	14	3
8869		VORO	02	22	0145	S23	W75	02	16.3			HRX	88	3		3
8869		TACH	02	22	0518	S19	W73	02	16.6			DAI	275	15	12	3
8869		SVTO	02	22	0637	S23	W78	02	16.3		B	FAO	350	8	19	3
8869		RAMY	02	22	1403	S21	W80	02	16.4		B	FSI	280	9	17	2
8869		HOLL	02	22	2148	S21	W78	02	16.9		A	HA	120	1	2	2
8869		VORO	02	23	0042	S20	W81	02	16.8			HRX	36	1		3
8869		LEAR	02	23	0051	S18	W81	02	16.9		A	HS	120	2	4	3
8869		TACH	02	23	0440	S17	W84	02	16.8			HSX	40	1	1	3
8869		KAND	02	23	0745	S19	W90	02	16.4			HS		1	2	4
8869B		RAMY	02	15	1356	N10	E16	02	16.8		A	AX		1		3
8869B	29586	MWIL	02	15	1530	N09	E16	02	16.8	4	(AP)					
8869C		RAMY	02	21	1309	N25	W61	02	16.8		B	BXO		2	5	3
8869C		HOLL	02	21	1559	N25	W63	02	16.8		B	BXO	10	3	6	3
8869C		LEAR	02	22	0104	N25	W65	02	17.0		B	CRO	20	2	5	4
8869A		LEAR	02	11	0110	S26	E73	02	16.7		B	CAO	60	5	7	3
8869A		SVTO	02	16	0927	S28	E09	02	17.1		B	BXO	10	2	4	3
8869A		HOLL	02	16	1611	S27	E08	02	17.3		B	BXO	10	3	6	3
8869A		LEAR	02	17	0055	S28	W02	02	16.9		B	BXO	10	4	3	4
8869A		LEAR	02	18	0055	S27	W08	02	17.4		A	AX		2	2	3
8870		HOLL	02	10	1847	N20	E79	02	16.8		A	HS	60	1	2	2
8870		VORO	02	10	2356	N20	E82	02	17.3			HAX	203	1		2
8870		LEAR	02	11	0110	N17	E75	02	16.7		A	HA	60	1	2	3
8870		TACH	02	11	0548	N20	E75	02	17.0			HSX	70	2	1	3
8870	29580	MWIL	02	11	1600	N19	E68	02	16.8	5	AP					
8870		HOLL	02	11	1615	N19	E69	02	16.9		A	HS	60	1	1	3
8870		VORO	02	12	0105	N20	E65	02	17.0			HAX	128	1		2
8870		LEAR	02	12	0150	N19	E64	02	17.0		A	HA	80	1	3	4
8870		SVTO	02	12	1304	N18	E57	02	16.9		A	HS	60	1	2	2
8870		HOLL	02	12	1526	N22	E54	02	16.8		A	HS	50	1	1	4
8870		LEAR	02	13	0100	N19	E51	02	16.9		A	HS	100	1	2	4
8870		VORO	02	13	0121	N20	E51	02	16.9			HAX	62	1		2
8870		TACH	02	13	0634	N20	E47	02	16.9			AXX	1	1	1	3
8870		KAND	02	13	0815	N19	E46	02	16.8			HA		1	2	4
8870		RAMY	02	13	1304	N20	E43	02	16.8		A	HS	70	1	2	4
8870		HOLL	02	13	1558	N20	E42	02	16.9		A	HS	60	1	2	4
8870		VORO	02	13	2336	N20	E39	02	17.0			HHX	115	1		2
8870		LEAR	02	14	0035	N19	E38	02	16.9		A	HS	70	1	2	4
8870		TACH	02	14	0642	N19	E34	02	16.9			HSX	150	1	2	3
8870		SVTO	02	14	0654	N19	E34	02	16.9		A	HA	40	1	2	3
8870		KAND	02	14	0845	N19	E34	02	16.9			HS		1	2	3
8870		RAMY	02	14	1230	N19	E31	02	16.9		A	HS	80	1	2	3
8870		HOLL	02	14	1754	N20	E28	02	16.9		A	HS	60	1	2	3
8870		VORO	02	14	2324	N19	E26	02	16.9			HHX	108	1		3
8870		LEAR	02	15	0052	N19	E25	02	16.9		A	HS	60	1	2	3
8870		SVTO	02	15	0816	N19	E21	02	16.9		A	HA	40	1	2	2
8870		RAMY	02	15	1356	N20	E17	02	16.9		A	HS	80	1	2	3
8870	29580	MWIL	02	15	1530	N19	E17	02	16.9	5	(AP)					
8870		HOLL	02	15	1646	N19	E16	02	16.9		A	HS	60	1	2	2
8870		VORO	02	15	2324	N19	E13	02	17.0			HHX	138	1		2
8870		LEAR	02	16	0125	N19	E12	02	17.0		A	HS	120	1	2	3
8870		TACH	02	16	0440	N19	E10	02	16.9			HSX	105	1	2	3
8870		SVTO	02	16	0927	N19	E07	02	16.9		A	HA	40	1	2	3
8870		RAMY	02	16	1330	N19	E05	02	16.9		A	HS	100	1	2	3
8870		HOLL	02	16	1611	N19	E04	02	17.0		A	HS	90	1	2	3

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8870		VORO	02 16 2334	N19 W01	02 16.9			HSX	133	1		2
8870		LEAR	02 17 0055	N19 W01	02 17.0		A	HS	70	1	2	4
8870		TACH	02 17 0545	N19 W03	02 17.0			HSX	100	1	2	3
8870		KAND	02 17 1150	N18 W07	02 17.0			HA		1	2	3
8870		RAMY	02 17 1204	N18 W08	02 16.9		A	HS	80	1	2	3
8870		SVTO	02 17 1224	N19 W08	02 16.9		A	HA	70	1	2	2
8870		HOLL	02 17 1612	N18 W11	02 16.8		A	HS	80	1	2	2
8870		VORO	02 17 2333	N18 W14	02 16.9			HAX	103	1		3
8870		LEAR	02 18 0055	N19 W14	02 17.0		A	HS	60	1	2	3
8870		TACH	02 18 0515	N19 W16	02 17.0			HSX	180	1	2	3
8870		SVTO	02 18 1010	N19 W20	02 16.9		A	HA	90	1	2	3
8870		RAMY	02 18 1245	N19 W22	02 16.8		A	HS	110	2	2	2
8870		HOLL	02 18 1601	N18 W23	02 16.9		A	HS	90	1	2	2
8870	29580	MWIL	02 18 2230	N19 W26	02 16.9	5	(AP)					
8870		VORO	02 18 2335	N19 W27	02 16.9			HAX	61	1		2
8870		LEAR	02 19 0205	N18 W28	02 16.9		A	HS	80	1	2	3
8870		KAND	02 19 1230	N18 W34	02 16.9			HA		1	1	2
8870		RAMY	02 19 1230	N18 W34	02 16.9		A	HS	60	1	1	3
8870		HOLL	02 19 1631	N18 W36	02 16.9		A	HS	60	1	1	4
8870	29580	MWIL	02 19 1700	N19 W36	02 17.0	4	(AP)					
8870		VORO	02 20 0000	N18 W40	02 16.9			HSX	115	1		2
8870		LEAR	02 20 0235	N18 W41	02 17.0		A	HS	80	1	2	2
8870		TACH	02 20 0721	N18 W43	02 17.0			HSX	50	1	1	3
8870		SVTO	02 20 0900	N18 W45	02 16.9		A	HA	30	1	2	2
8870		RAMY	02 20 1243	N18 W47	02 16.9		A	HA	40	1	2	3
8870		HOLL	02 20 1548	N18 W48	02 17.0		A	HS	30	1	1	1
8870		VORO	02 20 2317	N18 W52	02 17.0			HSX	135	1		2
8870		LEAR	02 21 0045	N19 W51	02 17.1		A	HA	40	1	2	4
8870		TACH	02 21 0455	N19 W54	02 17.1			HSX	60	1	1	3
8870		SVTO	02 21 0659	N20 W58	02 16.8		B	CSO	50	3	8	3
8870		RAMY	02 21 1309	N18 W61	02 16.9		A	HS	40	1	1	3
8870		HOLL	02 21 1559	N18 W61	02 17.0		A	HS	50	1	1	3
8870		LEAR	02 22 0104	N19 W65	02 17.1		A	HS	40	1	2	4
8870		VORO	02 22 0145	N18 W67	02 17.0			HRX	66	1		3
8870		TACH	02 22 0518	N19 W70	02 16.9			HXX	30	1	1	3
8870		SVTO	02 22 0637	N17 W68	02 17.1		A	AX	10	1	1	3
8870		RAMY	02 22 1403	N17 W74	02 17.0		A	HS	20	1	1	2
8870		HOLL	02 22 2148	N18 W78	02 17.0		A	AX	30	1	1	2
8870		LEAR	02 23 0051	N19 W76	02 17.2		A	HS	30	1	2	3
8870A		LEAR	02 22 0104	S09 W61	02 17.5		B	CRO	30	3	3	4
8870A		TACH	02 22 0518	S11 W64	02 17.4			HXX	30	1	1	3
8870A		SVTO	02 22 0637	S13 W67	02 17.2		A	AX		1		3
8870A		RAMY	02 22 1403	S13 W68	02 17.4		B	BXO	10	4	4	2
8870A		HOLL	02 22 2148	S11 W75	02 17.3		A	AX	10	2	3	2
8870A		LEAR	02 23 0051	S10 W73	02 17.5		B	DSO	60	2	5	3
8870B		SVTO	02 14 0654	N31 E47	02 18.0		A	HR		1		3
8870B		RAMY	02 14 1230	N31 E42	02 17.8		B	BXO		2	2	3
8870B		LEAR	02 15 0052	N29 E35	02 17.8		A	AX		1		3
8870C		SVTO	02 15 0816	S12 E37	02 18.1		A	HR	10	1		2
8870C	29587	MWIL	02 15 1530	S13 E33	02 18.1	3	(AP)					
8872	29582	MWIL	02 11 1600	S27 E86	02 18.4	3	AP					
8872		HOLL	02 11 1615	S28 E83	02 18.2		A	HS	70	2	4	3
8872		VORO	02 11 2356	S26 E76	02 17.9			HAX	292	2		2
8872		LEAR	02 12 0150	S28 E78	02 18.2		B	DAO	110	5	5	4
8872		TACH	02 12 0516	S27 E76	02 18.1			ASX	15	1	1	3
8872		SVTO	02 12 1304	S27 E71	02 18.1		B	DAO	80	6	3	2
8872		HOLL	02 12 1526	S25 E69	02 18.0		B	DAO	70	3	4	4
8872		LEAR	02 13 0100	S27 E65	02 18.1		B	DAO	110	4	5	4
8872		VORO	02 13 0121	S30 E64	02 18.1			HAX	87	3	2	2
8872		TACH	02 13 0634	S26 E61	02 18.0			BRO	21	3	2	3
8872		KAND	02 13 0815	S27 E61	02 18.1			DSO		4	7	4
8872		RAMY	02 13 1304	S26 E59	02 18.1		B	DSO	60	5	4	4
8872		HOLL	02 13 1558	S26 E58	02 18.2		B	DAO	50	5	4	4
8872		VORO	02 13 2336	S27 E54	02 18.2			DAI	100	3	2	2
8872		LEAR	02 14 0035	S27 E51	02 18.0		B	DAO	70	7	4	4

SUNSPOT GROUPS
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8872		TACH	02 14 0642	S24 E50	02 18.1			HAO	110	3	2	3
8872		SVTO	02 14 0654	S26 E49	02 18.1		B	DAO	50	4	5	3
8872		KAND	02 14 0845	S27 E48	02 18.1			DAO		3	3	3
8872		RAMY	02 14 1230	S27 E46	02 18.1		B	DSO	30	5	3	3
8872		HOLL	02 14 1754	S27 E44	02 18.2		B	DSO	40	4	4	3
8872		VORO	02 14 2324	S28 E41	02 18.2			BXI	40	5	2	3
8872		LEAR	02 15 0052	S28 E39	02 18.1		B	DAO	40	4	4	3
8872		SVTO	02 15 0816	S27 E36	02 18.1		B	DAO	40	3	4	2
8872		RAMY	02 15 1356	S27 E33	02 18.1		B	CRO	20	8	3	3
8872	29582	MWIL	02 15 1530	S28 E32	02 18.1	4	(AP)					
8872		HOLL	02 15 1646	S28 E32	02 18.2		B	CSO	20	7	4	2
8872		VORO	02 15 2324	S28 E28	02 18.2			BXO	18	2	3	2
8872		LEAR	02 16 0125	S28 E27	02 18.2		B	DSO	30	4	4	3
8872		TACH	02 16 0440	S27 E25	02 18.1			BRO	18	2	4	3
8872		SVTO	02 16 0927	S29 E23	02 18.2		B	CRO	20	4	5	3
8872		RAMY	02 16 1330	S27 E23	02 18.3		B	CSO	10	3	3	3
8872		HOLL	02 16 1611	S27 E21	02 18.3		B	BXO	20	3	3	3
8872		VORO	02 16 2334	S30 E16	02 18.2			BXI	11	4	5	2
8872		LEAR	02 17 0055	S28 E15	02 18.2		B	BXO	20	9	7	4
8872		TACH	02 17 0545	S29 E13	02 18.2			BRO	12	2	3	3
8872		RAMY	02 17 1204	S30 E09	02 18.2		B	CAO	20	6	4	3
8872		SVTO	02 17 1224	S29 E08	02 18.1		B	CRO	20	4	4	2
8872		HOLL	02 17 1612	S28 E05	02 18.1		B	BXO	20	2	3	2
8872		VORO	02 17 2333	S30 E02	02 18.1			AXX	4	2	1	3
8872		LEAR	02 18 0055	S29 E01	02 18.1		B	BXO	10	3	2	3
8872		LEAR	02 19 0205	S31 W10	02 18.3		B	BXO	10	3	2	3
8872		HOLL	02 19 1631	S31 W19	02 18.2		A	AX		3	1	4
8872	29596	MWIL	02 19 1700	S30 W20	02 18.1	3	(AP)					
8872		LEAR	02 20 0235	S31 W23	02 18.3		A	AX		1		2
8874		VORO	02 13 2356	S09 E64	02 18.8			CAO	26	3	3	2
8874		RAMY	02 14 1230	S08 E60	02 19.0		B	BXO		2	2	3
8874		HOLL	02 14 1754	S08 E57	02 19.0		B	BXO	10	4	4	3
8874		LEAR	02 15 0052	S10 E52	02 18.9		B	DSO	30	3	4	3
8874		SVTO	02 15 0816	S09 E49	02 19.0		B	DAO	50	3	4	2
8874		RAMY	02 15 1356	S08 E45	02 18.9		B	BXO	10	4	4	3
8874	29590	MWIL	02 15 1530	S09 E44	02 18.9	4	(B)					
8874		HOLL	02 15 1646	S08 E43	02 18.9		B	DSO	20	4	5	2
8874		VORO	02 15 2324	S09 E40	02 19.0			DAI	34	3	4	2
8874		LEAR	02 16 0125	S09 E38	02 18.9		B	DSO	40	3	4	3
8874		TACH	02 16 0440	S08 E37	02 19.0			BRO	13	2	3	3
8874		SVTO	02 16 0927	S09 E34	02 18.9		B	CRO	20	2	5	3
8874		RAMY	02 16 1330	S08 E32	02 19.0		B	BXO	10	2	4	3
8874		HOLL	02 16 1611	S08 E32	02 19.1		B	BXO	20	2	5	3
8874		VORO	02 16 2334	S09 E27	02 19.0			BXO	12	2	4	2
8874		LEAR	02 17 0055	S09 E25	02 18.9		B	BXO	10	4	5	4
8873		VORO	02 12 2356	S19 E77	02 18.9			CAO	31	2	4	2
8873		RAMY	02 13 1304	S17 E71	02 18.9		B	BXO	10	3	4	4
8873		HOLL	02 13 1558	S18 E70	02 19.0		B	BXO	10	2	3	4
8873		LEAR	02 14 0035	S19 E65	02 19.0		B	BXO	10	3	6	4
8873		TACH	02 14 0642	S18 E64	02 19.1			AXX	10	1	1	3
8873		SVTO	02 14 0654	S17 E64	02 19.1		A	HR	10	1		3
8873		KAND	02 14 0845	S18 E64	02 19.2			AX		1	1	3
8873		RAMY	02 14 1230	S18 E59	02 19.0		B	BXO	10	2	4	3
8873		HOLL	02 14 1754	S17 E59	02 19.2		A	AX		1		3
8873	29588	MWIL	02 15 1530	S20 E44	02 19.0	3	(AP)					
8873		LEAR	02 22 0104	S21 W40	02 19.0		B	BXO		2	2	4
8874A		VORO	02 16 2334	N01 E27	02 19.0			AXX	4	1		2
8877	29589	MWIL	02 15 1530	S27 E45	02 19.1	3	(AP)					
8877		HOLL	02 15 1646	S26 E45	02 19.2		A	AX	10	2	1	2
8877		VORO	02 15 2324	S26 E41	02 19.2			AXX	11	1		2
8877		LEAR	02 16 0125	S26 E41	02 19.2		B	CRO	10	2	3	3
8877		TACH	02 16 0440	S25 E39	02 19.2			AXX	3	1	1	3
8877		SVTO	02 16 0927	S26 E35	02 19.1		A	HR		1		3
8877		RAMY	02 16 1330	S25 E32	02 19.0		B	CAO	20	2	3	3
8877		HOLL	02 16 1611	S25 E32	02 19.1		A	AX	10	1	1	3

SUNSPOT GROUPS
(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
8877		LEAR	02	17	0055	S25	E24	02	18.9		B	BXO	10	3	2	4
8877		RAMY	02	17	1204	S26	E19	02	19.0		A	AX		1		3
8875		LEAR	02	15	0052	S24	E66	02	20.1		A	HA	20	1	1	3
8875		SVTO	02	15	0816	S23	E64	02	20.3		B	DRO	20	2	6	2
8875		RAMY	02	15	1356	S22	E59	02	20.1		B	BXO		2	5	3
8875	29591	MWIL	02	15	1530	S23	E58	02	20.1	4	(B)					
8875		HOLL	02	15	1646	S22	E58	02	20.1		B	BXO	10	2	4	2
8875		VORO	02	15	2324	S23	E53	02	20.0			BXO	18	2	8	2
8875		LEAR	02	16	0125	S23	E51	02	20.0		A	AX		2	2	3
8875		SVTO	02	16	0927	S23	E47	02	20.0		A	AX	10	2	2	3
8875		RAMY	02	16	1330	S22	E46	02	20.1		B	CSO	20	4	6	3
8875		HOLL	02	16	1611	S22	E46	02	20.2		B	BXO	30	4	5	3
8875		VORO	02	16	2334	S22	E41	02	20.1			BXO	26	2	6	2
8875		LEAR	02	17	0055	S22	E40	02	20.1		B	CRO	20	7	6	4
8875		TACH	02	17	0545	S23	E36	02	20.0			BRO	11	3	6	3
8875		KAND	02	17	1150	S22	E34	02	20.1			BXO		3	7	2
8875		RAMY	02	17	1204	S23	E33	02	20.0		B	DSO	30	7	7	3
8875		SVTO	02	17	1224	S22	E34	02	20.1		B	DAO	20	3	7	2
8875		HOLL	02	17	1612	S22	E32	02	20.1		B	BXO	20	2	6	2
8875		VORO	02	17	2333	S23	E28	02	20.1			BXO	17	4	7	3
8875		LEAR	02	18	0055	S22	E23	02	19.8		B	BXO	10	3	2	3
8875		TACH	02	18	0515	S22	E23	02	20.0			BRO	32	2	5	3
8875		SVTO	02	18	1010	S22	E17	02	19.7		A	HA	10	1	1	3
8875		RAMY	02	18	1245	S22	E20	02	20.1		B	BXO	10	3	7	2
8875		HOLL	02	18	1601	S22	E15	02	19.8		A	AX	10	2	1	2
8875	29591	MWIL	02	18	2230	S22	E11	02	19.8	4	(AP)					
8875		VORO	02	18	2335	S22	E10	02	19.7			AXX	10	2		2
8875		LEAR	02	19	0205	S20	E10	02	19.8		B	CSO	10	2	2	3
8875		RAMY	02	19	1230	S22	E03	02	19.7		B	BXO		2	2	3
8875		KAND	02	19	1230	S22	E04	02	19.8			AX		3	3	2
8875		HOLL	02	19	1631	S22	E04	02	20.0		B	BXO		2	8	4
8875	29591	MWIL	02	19	1700	S22	E04	02	20.0	4	(B)					
8875		VORO	02	20	0000	S23	E00	02	20.0			BXI	17	5	8	2
8875		LEAR	02	20	0235	S21	W01	02	20.0		B	CSO	50	7	9	2
8875		TACH	02	20	0721	S22	W06	02	19.8			BAI	19	5	4	3
8875		SVTO	02	20	0900	S23	W06	02	19.9		B	DAO	70	8	6	2
8875		RAMY	02	20	1243	S23	W08	02	19.9		B	CAO	40	12	6	3
8875		HOLL	02	20	1548	S22	W10	02	19.9		B	DAO	70	15	6	1
8875		VORO	02	20	2317	S23	W14	02	19.9			DAO	219	4	5	2
8875		LEAR	02	21	0045	S22	W14	02	19.9		B	DAO	110	14	7	4
8875		TACH	02	21	0455	S21	W16	02	20.0			DAI	263	6	6	3
8875		SVTO	02	21	0659	S22	W18	02	19.9		B	DAO	170	10	7	3
8875		RAMY	02	21	1309	S23	W23	02	19.8		B	DAO	170	12	9	3
8875		HOLL	02	21	1559	S22	W24	02	19.8		B	DAO	130	13	9	3
8875		LEAR	02	22	0104	S22	W29	02	19.8		B	DSI	120	17	8	4
8875		VORO	02	22	0145	S23	W29	02	19.8			DAI	178	11	8	3
8875		TACH	02	22	0518	S22	W29	02	20.0			DAI	268	17	7	3
8875		SVTO	02	22	0637	S23	W32	02	19.8		B	DAO	160	12	8	3
8875		RAMY	02	22	1403	S23	W35	02	19.9		B	DAO	130	14	9	2
8875		HOLL	02	22	2148	S23	W40	02	19.8		B	DSO	200	6	10	2
8875		VORO	02	23	0042	S23	W42	02	19.8			CAI	234	11	9	3
8875		LEAR	02	23	0051	S22	W42	02	19.8		B	DAO	180	10	9	3
8875		TACH	02	23	0440	S21	W43	02	19.9			CAI	128	8	6	3
8875		KAND	02	23	0745	S22	W45	02	19.9			ESO		7	12	4
8875		RAMY	02	23	1240	S27	W47	02	19.9		B	DAO	210	12	10	2
8875		HOLL	02	23	1553	S23	W51	02	19.7		BG	CAO	80	14	10	4
8875		VORO	02	23	2304	S23	W54	02	19.8			CAI	139	7	9	3
8875		LEAR	02	24	0032	S22	W55	02	19.8		B	EAO	70	13	11	5
8875		TACH	02	24	0531	S21	W57	02	19.8			BRO	54	5	10	3
8875		SVTO	02	24	0805	S23	W59	02	19.8		B	CAO	60	10	12	3
8875		KAND	02	24	0905	S22	W60	02	19.8			BXO		5	11	2
8875		RAMY	02	24	1245	S23	W65	02	19.5		B	DSO	40	5	6	4
8875		LEAR	02	25	0340	S24	W68	02	19.9		B	DSO	50	6	10	3
8876		VORO	02	14	2356	S13	E71	02	20.3			DAO	63	2	3	2
8876		SVTO	02	15	0816	S14	E71	02	20.7		A	HR		1		2
8876		RAMY	02	15	1356	S13	E66	02	20.6		B	BXO		3	4	3
8876	29592	MWIL	02	15	1530	S13	E65	02	20.5	4	(BF)					

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8876		HOLL	02 15 1646	S12 E65	02 20.6		B	BXO	10	3	4	2
8876		LEAR	02 16 0125	S13 E59	02 20.5		B	DAO	40	2	3	3
8876		TACH	02 16 0440	S12 E59	02 20.6			BRO	8	2	4	3
8876		SVTO	02 16 0927	S13 E55	02 20.5		B	DAO	30	3	6	3
8876		RAMY	02 16 1330	S13 E53	02 20.6		B	CSO	30	9	6	3
8876		HOLL	02 16 1611	S12 E53	02 20.7		B	BXO	110	14	6	3
8876		VORO	02 16 2334	S12 E47	02 20.5			DAO	47	2	4	2
8876		LEAR	02 17 0055	S12 E45	02 20.4		B	CSO	30	5	5	4
8876		TACH	02 17 0545	S13 E43	02 20.5			CRO	70	2	5	3
8876		KAND	02 17 1150	S12 E39	02 20.4			DRO		4	6	3
8876		RAMY	02 17 1204	S13 E39	02 20.4		B	DSO	30	3	5	3
8876		SVTO	02 17 1224	S12 E39	02 20.4		B	DSO	50	3	5	2
8876		HOLL	02 17 1612	S13 E37	02 20.5		B	BXO	50	5	5	2
8876		VORO	02 17 2333	S13 E34	02 20.5			BXI	23	3	4	3
8876		LEAR	02 18 0055	S13 E32	02 20.4		B	CSO	30	5	5	3
8876		TACH	02 18 0515	S12 E30	02 20.5			BRO	59	4	4	3
8876		SVTO	02 18 1010	S12 E27	02 20.4		B	BXO	10	4	5	3
8876		RAMY	02 18 1245	S12 E26	02 20.5		B	BXO	10	5	4	2
8876		HOLL	02 18 1601	S12 E24	02 20.5		B	BXO	20	3	4	2
8876	29592	MWIL	02 18 2230	S13 E18	02 20.3	4	(AP)					
8876		VORO	02 18 2335	S13 E19	02 20.4			AXX	9	1		2
8876		LEAR	02 19 0205	S12 E18	02 20.4		B	CSO	50	5	3	3
8876		KAND	02 19 1230	S12 E13	02 20.5			BXO		2	4	2
8876		RAMY	02 19 1230	S12 E13	02 20.5		B	BXO		2	4	3
8876		HOLL	02 19 1631	S12 E10	02 20.4		B	BXO	10	5	4	4
8876	29592	MWIL	02 19 1700	S12 E11	02 20.5	3	(B)					
8876		LEAR	02 20 0235	S11 E07	02 20.6		B	BXO	10	3	1	2
8885		RAMY	02 21 1309	N11 W12	02 20.6		A	AX		1		3
8885		LEAR	02 22 0104	N12 W18	02 20.7		A	AX		1		4
8885		RAMY	02 22 1403	N12 W25	02 20.7		A	AX		2	1	2
8885		HOLL	02 22 2148	N12 W28	02 20.8		B	BXO	20	2	2	2
8885		LEAR	02 23 0051	N12 W30	02 20.8		B	BXO	10	2	3	3
8885		TACH	02 23 0440	N13 W33	02 20.7			ARO	3	2	2	3
8885		KAND	02 23 0745	N11 W34	02 20.8			BXO		2	3	4
8885		RAMY	02 23 1240	N08 W39	02 20.6		B	BXO		2	1	2
8885		HOLL	02 23 1553	N11 W39	02 20.7		B	BXO		2	3	4
8885		LEAR	02 24 0032	N12 W42	02 20.8		B	BXO	10	3	8	5
8885		TACH	02 24 0531	N12 W48	02 20.6			AXX	5	1	1	3
8885		SVTO	02 24 0805	N13 W48	02 20.7		B	BXO	30	3	6	3
8885		RAMY	02 24 1245	N11 W50	02 20.8		B	BXO	20	4	5	4
8885		LEAR	02 25 0340	N11 W57	02 20.9		B	BSO	20	2	4	3
8885		TACH	02 25 0545	N12 W60	02 20.7			AXX	3	1	1	3
8885		SVTO	02 25 0657	N11 W62	02 20.6		A	AX	10	1	1	3
8885		RAMY	02 25 1342	N09 W68	02 20.5		A	AX		1		3
8885		HOLL	02 25 1545	N11 W66	02 20.7		A	AX	10	2	1	4
8879		RAMY	02 17 1204	N21 E80	02 23.6		A	HS	60	1	2	3
8879		HOLL	02 17 1612	N22 E79	02 23.7		A	HS	180	1	2	2
8879		VORO	02 17 2333	N22 E78	02 24.0			HAX	343	1		3
8879		LEAR	02 18 0055	N20 E73	02 23.6		A	HS	120	1	2	3
8879		TACH	02 18 0515	N21 E67	02 23.3			HSX	150	1	2	3
8879		SVTO	02 18 1010	N23 E69	02 23.7		A	HA	180	1	5	3
8879		RAMY	02 18 1245	N22 E68	02 23.7		A	HS	210	1	3	2
8879		HOLL	02 18 1601	N22 E66	02 23.7		A	HS	210	1	2	2
8879	29594	MWIL	02 18 2230	N22 E64	02 23.8	4	(AP)					
8879		VORO	02 18 2335	N22 E65	02 24.0			HAX	258	1		2
8879		LEAR	02 19 0205	N22 E60	02 23.7		A	HS	180	1	3	3
8879		KAND	02 19 1230	N22 E56	02 23.8			HS		1	2	2
8879		RAMY	02 19 1230	N22 E56	02 23.8		A	HH	200	1	3	3
8879		HOLL	02 19 1631	N22 E53	02 23.8		A	HH	210	1	3	4
8879	29594	MWIL	02 19 1700	N22 E53	02 23.8	5	(AP)					
8879		VORO	02 20 0000	N21 E50	02 23.8			HAX	268	1		2
8879		LEAR	02 20 0235	N22 E48	02 23.8		A	HS	250	1	3	2
8879		TACH	02 20 0721	N22 E44	02 23.7			HSX	200	1	2	3
8879		SVTO	02 20 0900	N21 E44	02 23.7		A	HA	100	1	3	2
8879		RAMY	02 20 1243	N22 E42	02 23.7		A	HH	230	1	3	3
8879		HOLL	02 20 1548	N22 E42	02 23.9		A	HH	220	1	2	1
8879		VORO	02 20 2317	N22 E38	02 23.9			HSX	355	1		2

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8879		LEAR	02 21 0045	N21 E37	02 23.9		A	HS	250	1	2	4
8879		TACH	02 21 0455	N22 E34	02 23.8			HSX	305	1	2	3
8879		SVTO	02 21 0659	N22 E33	02 23.8		A	HS	250	1	3	3
8879		RAMY	02 21 1309	N24 E32	02 24.0		B	CSO	250	3	8	3
8879		HOLL	02 21 1559	N22 E28	02 23.8		A	HH	200	1	2	3
8879		LEAR	02 22 0104	N21 E23	02 23.8		A	HS	210	1	2	4
8879		VORO	02 22 0145	N22 E23	02 23.8			HHX	389	1		3
8879		TACH	02 22 0518	N21 E21	02 23.8			HSX	400	1	2	3
8879		SVTO	02 22 0637	N22 E19	02 23.7		A	HA	240	1	4	3
8879		RAMY	02 22 1403	N23 E16	02 23.8		A	HH	250	1	3	2
8879		HOLL	02 22 2148	N23 E12	02 23.8		A	HS	220	1	2	2
8879		VORO	02 23 0042	N22 E11	02 23.9			HHX	368	1		3
8879		LEAR	02 23 0051	N22 E11	02 23.9		A	HH	240	1	2	3
8879		TACH	02 23 0440	N21 E08	02 23.8			HSX	382	2	2	3
8879		KAND	02 23 0745	N23 E06	02 23.8			CSO		4	6	4
8879		RAMY	02 23 1240	N23 E05	02 23.9		B	CHO	270	4	5	2
8879		HOLL	02 23 1553	N23 E06	02 24.1		B	CHO	240	14	9	4
8879		VORO	02 23 2304	N22 W01	02 23.9			HHX	372	2		3
8879		LEAR	02 24 0032	N22 W01	02 23.9		B	CHO	260	7	3	5
8879		TACH	02 24 0531	N23 W06	02 23.8			HSX	384	5	2	3
8879		SVTO	02 24 0805	N23 W07	02 23.8		B	CKO	240	5	5	3
8879		KAND	02 24 0905	N22 W06	02 23.9			CHO		5	5	2
8879		RAMY	02 24 1245	N21 W08	02 23.9		B	CAO	280	6	5	4
8879		VORO	02 24 2319	N22 W14	02 23.9			HHX	377	2		3
8879		LEAR	02 25 0340	N21 W16	02 23.9		B	CHO	270	10	6	3
8879		TACH	02 25 0545	N22 W15	02 24.1			HSX	379	10	3	3
8879		SVTO	02 25 0657	N22 W17	02 24.0		B	DHO	280	9	7	3
8879		KAND	02 25 1232	N21 W21	02 23.9			DHO		5	6	2
8879		RAMY	02 25 1342	N22 W23	02 23.8		B	DHO	260	10	6	3
8879		HOLL	02 25 1545	N22 W23	02 23.9		B	CHO	280	13	6	4
8879		LEAR	02 26 0129	N22 W28	02 23.9		B	CHO	200	6	3	3
8879		TACH	02 26 0517	N22 W29	02 24.0			HR	247	4	2	2
8879		SVTO	02 26 0922	N22 W32	02 23.9		B	DKO	300	4	4	3
8879		RAMY	02 26 1312	N22 W34	02 23.9		B	CSO	240	13	5	3
8879	29594	MWIL	02 26 1530	N23 W35	02 23.9	5	(BP)					
8879		HOLL	02 26 1554	N22 W35	02 24.0		B	DSO	260	5	6	4
8879		VORO	02 27 0115	N22 W42	02 23.8			HHX	387	4		3
8879		LEAR	02 27 0337	N23 W42	02 23.9		B	DSO	2250	14	6	3
8879		SVTO	02 27 1152	N23 W46	02 24.0		B	CKO	340	6	7	3
8879		KAND	02 27 1155	N22 W47	02 23.9			CHO		4	7	2
8879		RAMY	02 27 1439	N23 W48	02 23.9		B	CSO	250	10	7	3
8879		HOLL	02 27 1621	N23 W46	02 24.1		B	CSO	240	8	8	4
8879		VORO	02 28 0040	N22 W53	02 23.9			HHX	329	3		2
8879		LEAR	02 28 0052	N23 W52	02 24.0		B	CSO	220	3	3	3
8879		SVTO	02 28 0625	N23 W57	02 23.9		B	CSO	170	4	9	3
8879		KAND	02 28 1025	N22 W59	02 23.9			HS		1	2	2
8879		RAMY	02 28 1350	N24 W60	02 23.9		B	CSO	190	3	8	3
8879		HOLL	02 28 1537	N22 W61	02 24.0		A	HS	210	1	2	2
8879	29594	MWIL	02 28 1545	N23 W62	02 23.9	5	(AP)					
8879		VORO	02 28 2250	N24 W65	02 23.9			HAX	355	1		2
8879		LEAR	02 29 0332	N22 W67	02 24.0		B	CSO	180	2	2	3
8879		KAND	02 29 0730	N22 W70	02 23.9			HS		1	2	3
8879		SVTO	02 29 1030	N23 W71	02 24.0		A	HA	180	1	5	3
8879		RAMY	02 29 1435	N23 W75	02 23.8		A	HS	180	1	8	3
8879		HOLL	02 29 1559	N22 W77	02 23.7		A	HS	180	1	2	3
8879	29594	MWIL	02 29 1645	N23 W76	02 23.8	4	(AP)					
8879		VORO	02 29 2303	N23 W77	02 24.0			HAX	345	1		2
8879		LEAR	03 01 0330	N23 W79	02 24.1		A	HA	30	1	3	2
8893		RAMY	02 26 1312	S19 W20	02 25.0		A	AX		1		3
8893	29597	MWIL	02 26 1530	S19 W22	02 25.0	4	(AF)					
8893		HOLL	02 26 1554	S21 W22	02 25.0		A	AX		1		4
8893		LEAR	02 27 0337	S20 W27	02 25.1		B	BXO		5	3	3
8893		SVTO	02 27 1152	S20 W32	02 25.0		B	CRO	10	2	4	3
8893		KAND	02 27 1155	S19 W31	02 25.1			BXO		4	4	2
8893		RAMY	02 27 1439	S19 W33	02 25.1		B	BXO		2	4	3
8893		HOLL	02 27 1621	S20 W36	02 24.9		A	AX		1		4
8893		LEAR	02 28 0052	S19 W41	02 24.9		A	AX		1		3
8893		SVTO	02 28 0625	S19 W46	02 24.7		A	AX		1		3

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8893		RAMY	02 28 1350	S19 W50	02 24.8		A	AX		1		3
8893		HOLL	02 28 1537	S19 W50	02 24.8		A	AX	10	1		2
8893		LEAR	02 29 0332	S19 W56	02 24.9		A	AX		1		3
8881		RAMY	02 20 1243	N20 E67	02 25.6		A	AX		1		3
8881		LEAR	02 21 0045	N18 E66	02 26.0		B	DAO	40	3	8	4
8881		TACH	02 21 0455	N19 E64	02 26.1			BRO	5	1	1	3
8881		SVTO	02 21 0659	N18 E62	02 26.0		B	CRO	20	2	5	3
8881		RAMY	02 21 1309	N20 E57	02 25.9		B	BXO	10	2	6	3
8881		HOLL	02 21 1559	N19 E58	02 26.1		B	BXO	20	3	7	3
8881		LEAR	02 22 0104	N18 E52	02 26.0		B	CRO	30	3	8	4
8881		TACH	02 22 0518	N18 E50	02 26.0			CRO	55	2	8	3
8881		SVTO	02 22 0637	N21 E48	02 25.9		B	CRO	20	2	7	3
8881		RAMY	02 22 1403	N20 E44	02 25.9		B	BXO	10	9	9	2
8881		HOLL	02 22 2148	N20 E40	02 26.0		B	BXO	60	6	9	2
8881		LEAR	02 23 0051	N18 E38	02 25.9		B	DSO	40	8	7	3
8881		TACH	02 23 0440	N18 E34	02 25.8			BAI	69	4	5	3
8881		KAND	02 23 0745	N20 E31	02 25.7			DSO		6	7	4
8881		RAMY	02 23 1240	N20 E28	02 25.7		B	CSO	20	9	7	2
8881		HOLL	02 23 1553	N19 E28	02 25.8		B	CAO	50	13	8	4
8881		LEAR	02 24 0032	N19 E24	02 25.8		B	CSO	40	11	8	5
8881		TACH	02 24 0531	N20 E20	02 25.7			BRO	68	7	7	3
8881		SVTO	02 24 0805	N19 E18	02 25.7		B	DAO	40	6	8	3
8881		KAND	02 24 0905	N19 E19	02 25.8			CSO		7	8	2
8881		RAMY	02 24 1245	N19 E16	02 25.7		B	DAO	70	6	9	4
8881		LEAR	02 25 0340	N19 E08	02 25.8		B	DSO	50	7	9	3
8881		TACH	02 25 0545	N20 E06	02 25.7			CAO	75	3	3	3
8881		SVTO	02 25 0657	N19 E06	02 25.7		B	DAO	40	3	8	3
8881		KAND	02 25 1232	N19 E02	02 25.7			DAO		5	7	2
8881		RAMY	02 25 1342	N19 E01	02 25.6		B	CRO	20	10	7	3
8881		HOLL	02 25 1545	N19 E01	02 25.7		B	BXO	40	12	8	4
8881		LEAR	02 26 0129	N19 W05	02 25.7		B	BXO	10	8	9	3
8881		TACH	02 26 0517	N19 W08	02 25.6			BRO	22	3	5	2
8881		SVTO	02 26 0922	N20 W10	02 25.6		B	DAO	60	5	6	3
8881		RAMY	02 26 1312	N19 W12	02 25.6		B	DRO	30	11	9	3
8881	29598	MWIL	02 26 1530	N20 W13	02 25.6	4	(B)					
8881		HOLL	02 26 1554	N19 W13	02 25.7		B	DAO	60	13	7	4
8881		LEAR	02 27 0337	N19 W19	02 25.7		B	DAO	50	14	8	3
8881		SVTO	02 27 1152	N19 W25	02 25.6		B	DAO	50	6	8	3
8881		KAND	02 27 1155	N19 W25	02 25.6			DAO		4	8	2
8881		RAMY	02 27 1439	N20 W26	02 25.6		B	CSO	30	7	7	3
8881		HOLL	02 27 1621	N19 W27	02 25.6		B	DSO	50	7	7	4
8881		LEAR	02 28 0052	N19 W31	02 25.7		B	DAO	60	11	8	3
8881		SVTO	02 28 0625	N19 W35	02 25.6		B	DSO	40	4	8	3
8881		KAND	02 28 1025	N19 W37	02 25.6			CAO		4	8	2
8881		RAMY	02 28 1350	N20 W40	02 25.5		B	DSO	70	5	9	3
8881		HOLL	02 28 1537	N19 W40	02 25.6		B	DSO	30	5	8	2
8881	29598	MWIL	02 28 1545	N20 W40	02 25.6	4	(B)					
8881		LEAR	02 29 0332	N18 W46	02 25.6		B	DSO	60	9	6	3
8881		KAND	02 29 0730	N19 W49	02 25.6			CSO		3	10	3
8881		SVTO	02 29 1030	N19 W51	02 25.5		B	CSO	40	4	8	3
8881		RAMY	02 29 1435	N20 W54	02 25.5		B	DSO	70	2	10	3
8881		HOLL	02 29 1559	N19 W54	02 25.5		B	CSO	60	6	9	3
8881	29598	MWIL	02 29 1645	N20 W54	02 25.6	4	(B)					
8881		LEAR	03 01 0330	N18 W55	02 26.0		B	EAO	30	5	14	2
8881		SVTO	03 01 0624	N18 W58	02 25.9		B	FAO	80	3	16	2
8881		TACH	03 01 0624	N20 W58	02 25.9			CRO	45	3	14	3
8881		KAND	03 01 0725	N19 W59	02 25.9			CAO		4	14	3
8881		RAMY	03 01 1228	N19 W67	02 25.5		B	CSO	30	2	5	4
8881	29598	MWIL	03 01 1600	N20 W70	02 25.4	3	(AP)					
8881		HOLL	03 01 1800	N19 W72	02 25.3		A	HS	90	1	3	3
8881		LEAR	03 02 0100	N20 W74	02 25.5		A	HA	30	2	2	3
8886		HOLL	02 23 1553	S14 E35	02 26.3		B	BXO		2	3	4
8886		LEAR	02 24 0032	S14 E30	02 26.3		B	BXO	10	5	3	5
8886		KAND	02 24 0905	S13 E27	02 26.4			DXO		8	4	2
8886		LEAR	02 25 0340	S13 E16	02 26.4		B	DAO	50	9	5	3
8886		TACH	02 25 0545	S14 E15	02 26.4			BAO	68	4	3	3
8886		SVTO	02 25 0657	S14 E15	02 26.4		B	DAO	40	4	4	3

SUNSPOT GROUPS
(Ordered by Central Meridian Passage Date)

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
8886		KAND	02	25	1232	S14	E12	02	26.4			DSO		3	4	2
8886		RAMY	02	25	1342	S14	E12	02	26.5		B	CRO	10	4	4	3
8886		HOLL	02	25	1545	S14	E10	02	26.4		B	BXO	20	4	4	4
8886		LEAR	02	26	0129	S15	E04	02	26.4		B	BXO		2	3	3
8886		TACH	02	26	0517	S13	E01	02	26.3			AXX	5	1	1	2
8886		SVTO	02	26	0922	S14	W02	02	26.2		A	AX		1		3
8886		RAMY	02	26	1312	S14	W03	02	26.3		A	AX		1		3
8886	29599	MWIL	02	26	1530	S14	W05	02	26.3	4	(AP)					
8886		HOLL	02	26	1554	S14	W06	02	26.2		B	CSO	10	2	3	4
8886		LEAR	02	27	0337	S14	W13	02	26.2		B	BXO	10	10	4	3
8886		SVTO	02	27	1152	S13	W17	02	26.2		B	DAO	40	5	4	3
8886		KAND	02	27	1155	S13	W17	02	26.2			DSO		4	4	2
8886		RAMY	02	27	1439	S13	W18	02	26.2		B	CRO	20	8	3	3
8886		HOLL	02	27	1621	S14	W20	02	26.2		B	DSO	40	10	5	4
8886		LEAR	02	28	0052	S14	W25	02	26.1		B	CSO	20	11	3	3
8886		SVTO	02	28	0625	S13	W28	02	26.1		B	CSO	50	6	6	3
8886		KAND	02	28	1025	S13	W30	02	26.2			DSO		5	5	2
8886		RAMY	02	28	1350	S13	W33	02	26.1		B	DSO	50	6	5	3
8886		HOLL	02	28	1537	S13	W33	02	26.2		B	CSO	30	10	5	2
8886	29599	MWIL	02	28	1545	S13	W34	02	26.1	4	(B)					
8886		LEAR	02	29	0332	S13	W40	02	26.1		B	CSO	60	7	5	3
8886		KAND	02	29	0730	S13	W42	02	26.1			DAO		3	6	3
8886		SVTO	02	29	1030	S13	W44	02	26.1		B	DAO	70	3	5	3
8886		RAMY	02	29	1435	S13	W46	02	26.1		B	DSO	80	4	6	3
8886		HOLL	02	29	1559	S13	W47	02	26.1		B	DSO	70	5	6	3
8886	29599	MWIL	02	29	1645	S13	W47	02	26.1	4	(B)					
8886		LEAR	03	01	0330	S12	W53	02	26.2		B	DSO	30	6	6	2
8886		TACH	03	01	0624	S11	W54	02	26.3			BRO	31	4	4	3
8886		SVTO	03	01	0624	S14	W54	02	26.3		B	DAO	80	8	6	2
8886		KAND	03	01	0725	S12	W54	02	26.3			BXO		10	5	3
8886		RAMY	03	01	1228	S13	W57	02	26.3		B	BXO	10	10	5	4
8886	29599	MWIL	03	01	1600	S12	W59	02	26.3	3	(BP)					
8886		HOLL	03	01	1800	S13	W62	02	26.2		B	BXO	60	10	7	3
8886		LEAR	03	02	0100	S12	W65	02	26.2		B	DSO	20	8	7	3
8886		TACH	03	02	0608	S12	W66	02	26.4			BRO	9	3	5	3
8886		KAND	03	02	1130	S14	W73	02	26.1			BXO		5	12	4
8886		RAMY	03	02	1249	S13	W70	02	26.3		B	BXO	10	7	7	2
8886	29599	MWIL	03	02	1500	S13	W74	02	26.1	4	(B)					
8886		HOLL	03	02	1552	S13	W74	02	26.2		B	CSO	120	6	7	4
8886		LEAR	03	03	0300	S12	W77	02	26.4		B	DSO	60	5	9	3
8886		RAMY	03	03	1222	S13	W80	02	26.6		A	AX		1		3
8895		KAND	02	24	0905	N15	E33	02	26.9			AX		1		2
8895		LEAR	02	29	0332	N13	W35	02	26.5		B	BXO		2	3	3
8895		KAND	02	29	0730	N14	W37	02	26.5			AX		1		3
8895		RAMY	02	29	1435	N11	W45	02	26.2		A	AX	10	1	1	3
8895		HOLL	02	29	1559	N14	W43	02	26.4		B	BXO	10	3	4	3
8895		RAMY	03	01	1228	N14	W56	02	26.4		B	BXO		2	3	4
8883		LEAR	02	22	0104	N11	E71	02	27.4		B	BXO	20	2	3	4
8883		TACH	02	22	0518	N12	E68	02	27.3			AXX	15	1	1	3
8883		SVTO	02	22	0637	N14	E69	02	27.5		A	HR	10	1	1	3
8883		RAMY	02	22	1403	N14	E66	02	27.6		B	CAO	30	2	4	2
8883		HOLL	02	22	2148	N13	E62	02	27.6		B	CSO	120	3	6	2
8883		LEAR	02	23	0051	N11	E60	02	27.5		B	DSO	80	6	8	3
8883		TACH	02	23	0440	N11	E57	02	27.5			CAO	38	4	5	3
8883		KAND	02	23	0745	N13	E56	02	27.5			CAO		4	8	4
8883		RAMY	02	23	1240	N17	E51	02	27.4		B	CSO	60	6	8	2
8883		HOLL	02	23	1553	N13	E51	02	27.5		BG	DAO	140	15	8	4
8883		LEAR	02	24	0032	N12	E46	02	27.5		B	DSO	130	18	8	5
8883		TACH	02	24	0531	N13	E44	02	27.5			DAI	204	9	6	3
8883		SVTO	02	24	0805	N13	E43	02	27.6		B	DAO	140	9	8	3
8883		KAND	02	24	0905	N13	E42	02	27.5			DAO		11	9	2
8883		RAMY	02	24	1245	N13	E40	02	27.5		B	DSO	140	13	7	4
8883		LEAR	02	25	0340	N12	E32	02	27.6		B	DSO	170	20	10	3
8883		TACH	02	25	0545	N12	E30	02	27.5			CAO	222	12	8	3
8883		SVTO	02	25	0657	N13	E29	02	27.5		B	DAO	40	9	8	3
8883		KAND	02	25	1232	N13	E26	02	27.5			DAO		9	9	2
8883		RAMY	02	25	1342	N13	E25	02	27.4		B	DSO	100	17	8	3

SUNSPOT GROUPS
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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
8883		HOLL	02 25 1545	N13 E25	02 27.5		B	CSO	170	17	8	4
8883		LEAR	02 26 0129	N12 E19	02 27.5		B	CSO	80	15	9	3
8883		TACH	02 26 0517	N12 E17	02 27.5			CAI	122	6	6	2
8883		SVTO	02 26 0922	N13 E14	02 27.4		B	DAO	100	7	9	3
8883		RAMY	02 26 1312	N13 E13	02 27.5		B	CSO	100	17	9	3
8883	29601	MWIL	02 26 1530	N13 E11	02 27.5	5	(B)					
8883		HOLL	02 26 1554	N13 E12	02 27.6		B	DSO	90	16	9	4
8883		LEAR	02 27 0337	N11 E02	02 27.3		B	DSO	90	5	4	3
8883		SVTO	02 27 1152	N13 E00	02 27.5		B	CAO	70	8	9	3
8883		KAND	02 27 1155	N12 E00	02 27.5			CSO		6	9	2
8883		RAMY	02 27 1439	N12 W02	02 27.4		B	CSO	80	10	8	3
8883		HOLL	02 27 1621	N12 W05	02 27.3		B	CSO	70	4	4	4
8883		LEAR	02 28 0052	N11 W11	02 27.2		B	DSO	90	3	2	3
8883		SVTO	02 28 0625	N12 W14	02 27.2		B	DAO	50	2	3	3
8883		KAND	02 28 1025	N11 W16	02 27.2			HA		3	3	2
8883		RAMY	02 28 1350	N12 W15	02 27.4		B	DSO	60	7	8	3
8883		HOLL	02 28 1537	N11 W19	02 27.2		B	DSO	40	4	4	2
8883	29601	MWIL	02 28 1545	N12 W18	02 27.3	4	(AP)					
8883		LEAR	02 29 0332	N12 W25	02 27.3		B	DSO	70	3	3	3
8883		KAND	02 29 0730	N12 W26	02 27.3			HA		2	3	3
8883		SVTO	02 29 1030	N12 W28	02 27.3		B	DAO	50	3	3	3
8883		RAMY	02 29 1435	N12 W31	02 27.3		B	DSO	20	2	3	3
8883		HOLL	02 29 1559	N11 W32	02 27.2		B	DSO	20	3	3	3
8883	29601	MWIL	02 29 1645	N12 W32	02 27.3	4	(AP)					
8883		LEAR	03 01 0330	N12 W37	02 27.4		B	DSO	30	2	3	2
8883		SVTO	03 01 0624	N11 W38	02 27.5		B	DAO	30	2	2	2
8883		TACH	03 01 0624	N14 W38	02 27.5			HSX	50	2	2	3
8883		KAND	03 01 0725	N11 W40	02 27.4			CSO		4	3	3
8883		RAMY	03 01 1228	N12 W42	02 27.4		B	CRO	20	3	3	4
8883	29601	MWIL	03 01 1600	N12 W44	02 27.4	4	(AP)					
8883		HOLL	03 01 1800	N12 W46	02 27.4		B	DSO	50	3	2	3
8883		LEAR	03 02 0100	N12 W48	02 27.5		B	DSO	30	3	2	3
8883		TACH	03 02 0608	N12 W51	02 27.5			AXX	25	2	1	3
8883		KAND	03 02 1130	N10 W55	02 27.4			HS		2	2	4
8883		RAMY	03 02 1249	N12 W57	02 27.3		A	HS	20	2	1	2
8883	29601	MWIL	03 02 1500	N12 W57	02 27.4	4	(AP)					
8883		HOLL	03 02 1552	N13 W58	02 27.4		A	HA	40	2	2	4
8883		LEAR	03 03 0300	N13 W62	02 27.5		A	HS	20	2	2	3
8883		TACH	03 03 0547	N13 W64	02 27.5			HSX	25	1	1	3
8883		SVTO	03 03 0620	N11 W65	02 27.5		A	HR	20	1	1	3
8883		RAMY	03 03 1222	N12 W67	02 27.6		B	CRO	20	1	1	3
8883		HOLL	03 03 1509	N13 W71	02 27.4		A	AX	10	2	1	3
8883		LEAR	03 04 0145	N12 W73	02 27.7		A	HS	30	2	2	4
8882		LEAR	02 21 0045	S16 E80	02 27.1		A	HA	20	1	2	4
8882		TACH	02 21 0455	S16 E82	02 27.4			AXX	10	1	1	3
8882		SVTO	02 21 0659	S16 E79	02 27.3		B	BXO	30	5	6	3
8882		RAMY	02 21 1309	S15 E75	02 27.2		B	CSO	50	4	8	3
8882		HOLL	02 21 1559	S16 E76	02 27.4		B	CAO	120	5	8	3
8882		LEAR	02 22 0104	S16 E69	02 27.3		B	DAO	130	8	7	4
8882		TACH	02 22 0518	S16 E70	02 27.5			DAI	157	7	9	3
8882		SVTO	02 22 0637	S13 E68	02 27.4		B	DAO	170	6	8	3
8882		RAMY	02 22 1403	S14 E65	02 27.5		B	DAC	280	8	9	2
8882		HOLL	02 22 2148	S15 E60	02 27.4		B	DSO	320	5	8	2
8882		LEAR	02 23 0051	S16 E58	02 27.4		B	DKO	290	9	8	3
8882		TACH	02 23 0440	S17 E56	02 27.4			DAI	476	6	6	3
8882		KAND	02 23 0745	S15 E55	02 27.5			DKO		7	10	4
8882		RAMY	02 23 1240	S12 E52	02 27.4		B	DAI	320	16	10	2
8882		HOLL	02 23 1553	S15 E50	02 27.4		B	EKO	350	17	11	4
8882		LEAR	02 24 0032	S16 E45	02 27.4		B	DKO	310	24	10	5
8882		TACH	02 24 0531	S15 E42	02 27.4			DAI	630	9	7	3
8882		SVTO	02 24 0805	S15 E42	02 27.5		B	DKI	590	17	9	3
8882		KAND	02 24 0905	S16 E42	02 27.6			DKI		19	9	2
8882		RAMY	02 24 1245	S15 E40	02 27.5		B	DKI	540	13	9	4
8882		LEAR	02 25 0340	S15 E32	02 27.6		B	EKI	530	22	11	3
8882		TACH	02 25 0545	S16 E29	02 27.4			DAI	1200	12	7	3
8882		SVTO	02 25 0657	S15 E29	02 27.5		B	DAI	320	9	10	3
8882		KAND	02 25 1232	S15 E26	02 27.5			EKO		11	11	2
8882		RAMY	02 25 1342	S14 E26	02 27.5		B	DKC	740	18	10	3

S U N S P O T G R O U P S
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8882		HOLL	02	25	1545	S16	E25	02	27.5		B	EKO	400	26	11	4
8882		LEAR	02	26	0129	S17	E18	02	27.4		BG	EKI	500	20	10	3
8882		TACH	02	26	0517	S16	E16	02	27.4			DAI	1458	7	6	2
8882		SVTO	02	26	0922	S16	E14	02	27.4		B	EKI	660	11	11	3
8882		RAMY	02	26	1312	S15	E13	02	27.5		B	EKC	710	17	11	3
8882	29600	MWIL	02	26	1530	S16	E12	02	27.5	5	(D)					
8882		HOLL	02	26	1554	S16	E11	02	27.5		B	E C	720	36	11	4
8882		LEAR	02	27	0337	S16	E05	02	27.5		B	EKI	650	26	10	3
8882		SVTO	02	27	1152	S16	E02	02	27.6		B	EKI	770	8	11	3
8882		KAND	02	27	1155	S16	E01	02	27.6			EKO		18	2	2
8882		RAMY	02	27	1439	S15	E00	02	27.6		B	DKC	890	29	10	3
8882		HOLL	02	27	1621	S16	W02	02	27.5		B	E C	860	27	11	4
8882		LEAR	02	28	0052	S16	W06	02	27.6		B	DKC	800	23	10	3
8882		SVTO	02	28	0625	S15	W10	02	27.5		BG	EKI	1120	16	11	3
8882		KAND	02	28	1025	S16	W11	02	27.6			DKC		13	10	2
8882		RAMY	02	28	1350	S16	W14	02	27.5		BG	DKI	980	19	10	3
8882		HOLL	02	28	1537	S16	W14	02	27.6		B	EKC	900	30	11	2
8882	29600	MWIL	02	28	1545	S16	W15	02	27.5	5	(B)					
8882		LEAR	02	29	0332	S16	W21	02	27.5		B	DKI	1000	10	9	3
8882		KAND	02	29	0730	S16	W23	02	27.6			DKC		7	10	3
8882		SVTO	02	29	1030	S15	W24	02	27.6		BG	EKI	1490	15	12	3
8882		RAMY	02	29	1435	S16	W26	02	27.6		B	EKI	970	14	11	3
8882		HOLL	02	29	1559	S16	W27	02	27.6		B	EKC	860	31	11	3
8882	29600	MWIL	02	29	1645	S16	W28	02	27.6	5	(B)					
8882		LEAR	03	01	0330	S15	W35	02	27.6		BD	EKC	650	21	12	2
8882		SVTO	03	01	0624	S14	W35	02	27.7		BG	EKI	980	10	12	2
8882		TACH	03	01	0624	S14	W36	02	27.6			DKC	2513	11	6	3
8882		KAND	03	01	0725	S12	W33	02	27.9			BXO		3	3	3
8882		KAND	03	01	0725	S16	W35	02	27.7			EKC		12	11	3
8882		RAMY	03	01	1228	S15	W38	02	27.7		BD	EKC	980	25	11	4
8882	29608	MWIL	03	01	1600	S12	W38	02	27.9	4	(B)					
8882	29600	MWIL	03	01	1600	S16	W40	02	27.7	5	(D)					
8882		HOLL	03	01	1800	S16	W43	02	27.6		BGD	EKC	1200	22	12	3
8882		LEAR	03	02	0100	S15	W45	02	27.7		BGD	EKC	680	24	11	3
8882		TACH	03	02	0608	S13	W47	02	27.8			DHI	1482	14	7	3
8882		KAND	03	02	1130	S14	W51	02	27.7			CAO		5	5	4
8882		KAND	03	02	1130	S17	W51	02	27.7			EKC		12	13	4
8882		RAMY	03	02	1249	S16	W54	02	27.5		BGD	EKC	810	26	11	2
8882	29608	MWIL	03	02	1500	S12	W52	02	27.8	4	(BD)					
8882	29600	MWIL	03	02	1500	S16	W54	02	27.6	5	(BG)					
8882		HOLL	03	02	1552	S16	W55	02	27.6		BG	EKC	1360	24	15	4
8882		LEAR	03	03	0300	S15	W58	02	27.8		BGD	EKC	1000	21	12	3
8882		TACH	03	03	0547	S13	W59	02	27.9			DAI	736	11	8	3
8882		SVTO	03	03	0620	S16	W62	02	27.7		BG	EKO	1430	9	12	3
8882		RAMY	03	03	1222	S15	W65	02	27.7		B	EKC	600	16	12	3
8882		HOLL	03	03	1509	S16	W67	02	27.6		B	EKC	350	21	12	3
8882		LEAR	03	04	0145	S15	W70	02	27.9		BGD	EKC	800	11	12	4
8882		SVTO	03	04	0714	S16	W72	02	27.9		B	ESO	390	7	13	3
8882		KAND	03	04	0725	S17	W75	02	27.7			EKO		6	14	2
8882		RAMY	03	04	1247	S15	W78	02	27.7		B	EHC	290	7	15	3
8882		HOLL	03	04	1538	S16	W81	02	27.6		B	EKO	240	8	14	3
8882		LEAR	03	05	0130	S16	W84	02	27.8		B	DKC	300	2	10	4
8887		LEAR	02	24	0032	S11	E58	02	28.4		B	CRO	10	3	3	5
8887		TACH	02	24	0531	S10	E55	02	28.4			HSX	45	2	1	3
8887		SVTO	02	24	0805	S10	E54	02	28.4		B	DAO	50	4	4	3
8887		KAND	02	24	0905	S10	E54	02	28.4			CSO		5	4	2
8887		RAMY	02	24	1245	S10	E53	02	28.5		B	DSO	40	4	4	4
8887		LEAR	02	25	0340	S11	E44	02	28.5		B	DSO	30	4	4	3
8887		TACH	02	25	0545	S11	E41	02	28.3			HSX	50	1	1	3
8887		SVTO	02	25	0657	S11	E41	02	28.4		A	HA	30	1	2	3
8887		KAND	02	25	1232	S10	E38	02	28.4			HS		1	1	2
8887		RAMY	02	25	1342	S09	E37	02	28.3		A	HR	10	1	1	3
8887		HOLL	02	25	1545	S11	E36	02	28.4		A	HS	20	1	1	4
8887		LEAR	02	26	0129	S11	E29	02	28.2		A	AX		1		3
8887		TACH	02	26	0517	S16	E28	02	28.3			AXX	40	1	1	2
8887		SVTO	02	26	0922	S11	E26	02	28.3		B	CRO	20	2	1	3
8887		RAMY	02	26	1312	S10	E25	02	28.4		B	CRO	10	3	5	3
8887	29602	MWIL	02	26	1530	S10	E23	02	28.4	4	(AP)					

SUNSPOT GROUPS
(Ordered by Central Meridian Passage Date)

FEBRUARY 2000

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
8887		HOLL	02 26 1554	S11 E23	02 28.4		A	HS	30	2	1	4
8887		LEAR	02 27 0337	S11 E16	02 28.3		A	AX		1		3
8887		SVTO	02 27 1152	S13 E12	02 28.4		B	CRO	30	7	3	3
8887		RAMY	02 27 1439	S09 E11	02 28.4		B	BXO		2	2	3
8888		HOLL	02 23 1553	N35 E70	02 29.3		A	HA	40	1	2	4
8888		LEAR	02 24 0032	N34 E68	02 29.4		A	HS	30	1	2	5
8888		TACH	02 24 0531	N36 E65	02 29.4			HSX	40	1	1	3
8888		SVTO	02 24 0805	N36 E63	02 29.4		A	HS	60	1	2	3
8888		KAND	02 24 0905	N35 E63	02 29.4			HS		1	2	2
8888		RAMY	02 24 1245	N37 E62	02 29.5		A	HS	30	1	3	4
8888		LEAR	02 25 0340	N36 E53	02 29.4		B	CSO	40	2	3	3
8888		TACH	02 25 0545	N34 E50	02 29.2			HSX	33	2	1	3
8888		SVTO	02 25 0657	N35 E51	02 29.4		A	HA	20	1	2	3
8888		KAND	02 25 1232	N36 E49	02 29.4			HS		2	2	2
8888		RAMY	02 25 1342	N37 E47	02 29.3		A	HA	70	2	2	3
8888		HOLL	02 25 1545	N35 E47	02 29.4		B	CSO	80	2	3	4
8888		LEAR	02 26 0129	N35 E41	02 29.3		B	CSO	40	2	1	3
8888		TACH	02 26 0517	N35 E39	02 29.3			HSX	30	1	1	2
8888		SVTO	02 26 0922	N35 E38	02 29.4		B	CRO	30	2	1	3
8888		RAMY	02 26 1312	N37 E36	02 29.4		B	CSO	30	3	5	3
8888	29603	MWIL	02 26 1530	N36 E35	02 29.4	4	(AP)					
8888		HOLL	02 26 1554	N36 E34	02 29.4		B	CSO	30	2	3	4
8888		LEAR	02 27 0337	N34 E28	02 29.4		B	CSO	40	2	3	3
8888		SVTO	02 27 1152	N37 E25	02 29.5		B	DAO	30	3	4	3
8888		KAND	02 27 1155	N35 E24	02 29.4			HA		3	4	2
8888		RAMY	02 27 1439	N37 E24	02 29.5		B	CSO	30	3	3	3
8888		HOLL	02 27 1621	N36 E22	02 29.4		B	CAO	30	3	4	4
8888		LEAR	02 28 0052	N36 E17	02 29.4		B	CSO	40	2	3	3
8888		SVTO	02 28 0625	N36 E15	02 29.5		B	CSO	30	2	2	3
8888		KAND	02 28 1025	N36 E11	02 29.3			HS		2	3	2
8888		RAMY	02 28 1350	N36 E11	02 29.4		B	CSO	30	2	3	3
8888		HOLL	02 28 1537	N37 E09	02 29.4		B	CSO	20	2	2	2
8888	29603	MWIL	02 28 1545	N36 E10	02 29.4	4	(AP)					
8888		LEAR	02 29 0332	N37 E02	02 29.3		B	CSO	40	2	2	3
8888		KAND	02 29 0730	N36 E01	02 29.4			HA		3	3	3
8888		SVTO	02 29 1030	N36 E01	02 29.5		A	HA	70	2	3	3
8888		RAMY	02 29 1435	N37 W03	02 29.4		B	CSO	20	3	3	3
8888		HOLL	02 29 1559	N37 W03	02 29.4		B	CSO	30	3	3	3
8888	29603	MWIL	02 29 1645	N36 W04	02 29.4	4	(AP)					
8888		LEAR	03 01 0330	N36 W08	02 29.5		B	CAO	10	2	2	2
8888		TACH	03 01 0624	N36 W10	02 29.5			AXX	25	1	1	3
8888		SVTO	03 01 0624	N36 W11	02 29.4		A	AX		1		2
8888		KAND	03 01 0725	N36 W12	02 29.3			AX		2	1	3
8888		RAMY	03 01 1228	N37 W14	02 29.4		A	AX		2	2	4
8888	29603	MWIL	03 01 1600	N36 W16	02 29.4	3	(AP)					
8888		HOLL	03 01 1800	N37 W18	02 29.3		A	AX	10	2	1	3
8888		LEAR	03 02 0100	N37 W15	02 29.8		B	BXO		2	9	3
8890		SVTO	02 24 0805	S12 E72	02 29.8		A	AX	10	1	1	3
8890		KAND	02 24 0905	S11 E75	03 1.0			AX		1		2
8890		RAMY	02 24 1245	S11 E71	02 29.9		A	AX		1		4
8890		LEAR	02 25 0340	S11 E62	02 29.8		A	AX		1		3
8897		RAMY	03 01 1228	S35 W07	02 29.9		B	BXO		2	3	4
8897		HOLL	03 01 1800	S35 W09	03 1.0		B	BXO	10	2	3	3
8897		LEAR	03 02 0100	S35 W15	02 29.8		B	CSO	10	3	5	3
8897		TACH	03 02 0608	S33 W16	03 1.0			BKO	7	2	4	3
8897		KAND	03 02 1130	S34 W19	03 1.0			CSO		4	5	4
8897		RAMY	03 02 1249	S35 W20	02 29.9		B	BXO	10	4	5	2
8897	29609	MWIL	03 02 1500	S35 W22	02 29.9	4	(B)					
8897		HOLL	03 02 1552	S35 W22	02 29.9		B	BXO	20	5	5	4
8897		LEAR	03 03 0300	S35 W26	03 1.0		B	DSO	30	4	7	3
8897		TACH	03 03 0547	S34 W28	03 1.0			BRO	22	4	6	3
8897		SVTO	03 03 0620	S35 W29	02 29.9		B	DAO	40	4	7	3
8897		RAMY	03 03 1222	S35 W33	02 29.9		B	CRO	30	7	7	3
8897		HOLL	03 03 1509	S36 W35	02 29.8		B	CSO	20	4	8	3
8897		LEAR	03 04 0145	S36 W38	03 1.0		B	DSO	90	8	8	4
8897		SVTO	03 04 0714	S36 W41	03 1.0		B	DSO	70	4	7	3

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

FEBRUARY 2000

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
8897		KAND	03	04	0725	S36	W44	02	29.8			CAO		6	9	2
8897		RAMY	03	04	1247	S35	W46	02	29.8		B	DSO	80	5	7	3
8897		HOLL	03	04	1538	S36	W48	02	29.8		B	DSO	40	2	8	3
8897		LEAR	03	05	0130	S36	W51	03	1.0		B	DSO	140	4	10	4
8897		TACH	03	05	0543	S36	W54	02	29.9			BAO	36	3	6	4
8897		KAND	03	05	0950	S37	W59	02	29.6			CAO		3	9	3
8897		RAMY	03	05	1227	S36	W59	02	29.8		B	DSO	100	2	8	4
8897		HOLL	03	05	1812	S37	W63	02	29.7		B	CAO	60	3	10	2
8897		SVTO	03	06	0736	S37	W75	02	29.3		A	HA	60	1	2	3
8897		RAMY	03	06	1228	S37	W75	02	29.5		A	HS	20	1	1	2
8897		HOLL	03	06	1500	S38	W78	02	29.3		A	HS	50	1	2	2
8897		TACH	03	07	0527	S36	W82	02	29.6			HSX	25	1	1	3
8897		SVTO	03	07	0710	S37	W89	02	29.1		A	AX	20	1	2	3

Stations reporting:

HOLL = Holloman
KAND = Kandilli
LEAR = Learmonth
MWIL = Mt. Wilson
PALE = Palehua
RAMY = Ramey
SVTO = San Vito
TACH = Tashkent
VORO = Voroshilov

SUDDEN IONOSPHERIC DISTURBANCES

FEBRUARY 2000

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type SWF	SEA	SPA	LF-SPA	SES	Flare (UT)	X-ray Class	NOAA Region
04	0845	0849	0900	1+	1					1	0844	C1.3	
04	0915	0923	0940	3-	5	1	3	1		1	0911	M3.0	8858
04	1053	1113	1147	2-	3		2			1	1104	C3.5	
04	1240	1301	1341	2	3		2				1255	C4.0	
04	1300	1305	1321	2+	5	1	3	1		1	1255	C4.0	
05	0827	0832	0840	2+	5		3	1		1	0822	C7.8	8858
05	1300	1333	1448	2+	3		2				No flare		
06	1128	1146	1220	1	1		1				1159	C1.8	8855
07	0812	0817	0855U	2	1		1				No flare		
08	0843	0851	1114	3	1					1	0842	M1.3	8858
08	0847	0908	0949	2+	3		2				0842	M1.3	8858
10	1220	1253	1346	1	1		1				No flare		
12	0828	0844	0949	1	1		1				*		
12	1230	1330U	1438	1	1		1				*		
13	1251	1321U	1351	1	1		1				No flare		
16	0836	0845	0912	1	1		1				0843	C1.3	8867
16	1228	1304	1334	1	1		1				*		
17	1448E	1451U	1528	1	1		1				1416	C2.5	
19	0807	0809	0852	1	1					1	0803	C1.4	
19	1119	1135	1155	1	1		1				No flare		
19	1319	1329	1434	1	1		1				No flare		
19	1440	1453	1512	1	1		1				No flare		
19	1542	1547	1608	2+	5		3	1			1539	M1.3	8869
20	0716	0719	0730	1+	1					1	0713	C3.1	8869
20	0850	0857	0937	1	3		1			1	0804	C2.3	
20	0956	0958	0958U	1	1					1	0954	C1.5	
20	1016	1029	1047	1+	3		2			1	1015	C4.9	8869
20	1053	1057	1111	1	1		1				*		
20	1130	1147	1310	2+	1					1	1126	C2.3	
20	1426	1449	1510	1	1		1				No flare		
21	0730	0738	0804	1	1		1				0727	C1.1	
21	0829	0833	0842	2+	5		2	1		1	0826	M1.8	
21	0952U	1015U	1037U	2	1		1				*		
21	1111	1132	1208	1	1		1				*		
21	1120	1149U	1207	1	1		1				*		
21	1301	1317	1403	1	3		2				1325	C1.3	
21	1444	1455	1542	1	1		1				No flare		
22	0733	0737	0737U	1	1					1	0731	C2.4	
22	0750	0753	0804	1+	1					1	0748	C3.2	
22	0847	0857	1012	2-	3		2			1	0842	M1.1	8869
22	1022E	1031U	1125D	1	1		1				*		
22	1128	1133	1144	2	5	1	3	1		1	1123	M1.2	8869
22	1215	1219	1219U	1	1					1	1213	C2.9	
22	1326	1337	1411	1	3		1			1	1326	C5.6	
22	1359	1406	1436	1	3		1			1	1357	C5.7	
23	0852	0942	1010	1	3		2				No flare		
23	1030	1041	1121	1	3		1			1	*		
23	1234	1258	1345	1	3		2				No flare		
23	1425	1430	1442	2	5		3	1		1	1425	C4.8	
24	0951	0956	1014	1	1					1	0951	C2.6	
24	1250	1252	1258	1-	1					1	No flare		
24	1437	1440	1459	2	5		2	1		1	1435	C3.7	

* = no flare patrol.

FEBRUARY 2000

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type SWF	SEA	SPA	LF-SPA	SES	Flare (UT)	X-ray Class	NOAA Region
25	0757	0803	0817	1	1					1	0755	C2.2	
25	0856	0910	0930	3	5		3	1		1	0854	C8.6	8888
25	1216	1237U	1322	1	1		1				No flare		
26	1038	1105	1215	2-	3		2			1	1036	C2.5	
26	1253	1315	1430	1	1		1				No flare		
26	1301	1400	1412	2	1		1				*		
27	0744	0802	0838	3	1		1				No flare		
27	0852	0913	0958	1	3		2				No flare		
28	1346	1351	1421	1+	3		2				1344	C2.0	
29	1448	1529	1553	1	3		2				1449	C3.0	8891

* = no flare patrol.

OBSERVATORIES REPORTING FOR FEBRUARY 2000

Panska Ves, Czech Republic	SES, SEA, SWF	Vlasim, Czech Republic	SEA
Rimavska Sobota, Slovakia	SEA	Ziar nad Hronom, Slovakia	SEA
Sofia, Bulgaria	SES	Zilina, Slovakia	SEA
Upice, Czech Republic	SEA		

Observations are not necessarily continuous.

SOLAR RADIO EMISSION
Spectral Observations

FEBRUARY 2000

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
01	0000	0745	CULG								
			LEAR	0507.0	0507.0	III		1	30	80	
	0000	0807	HIRA	0507.4	0507.6	III	B	1	50	160	
	0649	1200	IZMI	0740.6	0740.8	III	B	1	45	95	
	0743	0801	POTS								
			SVTO	0745.0	1345.0	CONT		1	35	60	
	0757	1430	ONDR								
	0810	1535	BLEN								
	0828	1430	POTS	1151.1	1151.3	III	B	1	130	170U	
	2030	2400	CULG								
	2134	2400	HIRA								
02			LEAR	0031.0	0031.0	III		1	37	57	
	0000	0745	CULG	0031.0	0031.0	III	B	1	30	70	
			CULG	0103.0	0104.0	III	G	1	20	160	
			LEAR	0103.0	0104.0	III		2	30	80	
	0000	0808	HIRA	0103.4	0103.6	III	B	1	50	180	
			LEAR	0315.0	0316.0	III		1	30	50	
			CULG	0337.0	0340.0	III	G	1	50	250	
			LEAR	0337.0	0338.0	III		2	30	80	
			HIRA	0339.4	0340.0	III	B	2	150	240	
			CULG	0620.0	0630.0	UNCLF		1	100	140	
			LEAR	0718.0	0718.0	III		1	30	55	
	0756	1432	ONDR								
	0740	1431	POTS	0805	1431 U	I	S,W	1	70	170U	
	0810	1535	BLEN								
	0732	1200	IZMI	0836.0U	0900.0	I	N	1	60	95	
			IZMI	0917.0	0917.3	III	G	1	55	90	
			LEAR	0944.0	0947.0	III		2	30	55	
			SVTO	0944.0	0959.0	III	N	1	35	85	
			POTS	0944.3	0945.1	III	G	2	40X	125	
			IZMI	0944.8	0944.9	III	G	2	30	95	
			IZMI	0944.9	0945.1	III	G	1	190	270	
			POTS	0946.8	0947.3	III	G	3	40X	170U	
			IZMI	0946.9	0947.2	III	G	2	25	255	
			POTS	1155.1	1155.2	III	B	1	110U	170U	
			POTS	1157.3	1158.0	III	G	2	40X	170U	
			IZMI	1157.4	1157.9	III	G	1	50	65	
			POTS	1327.0	1327.8	III	G	2	40X	170U	
			POTS	1329.3	1329.5	III	B	2	40X	70	
			POTS	1333.5	1333.8	III	G	1	110U	170U	
			POTS	1350.3	1351.3	III	G	2	40X	170U	
	2134	2400	HIRA								
	2030	2400	CULG	2257.0	2257.0	III	B	1	30	90	
03			LEAR	0120.0	0120.0	III		1	30	58	
	0000	0745	CULG	0120.0	0120.0	III	B	1	25	90	
			CULG	0315.0	0315.0	III	B	1	23	90	
			LEAR	0315.0	0315.0	III		1	30	50	
			LEAR	0501.0	0501.0	III		1	30	40	
			LEAR	0555.0	0623.0	III	N	2	30	55	
			CULG	0621.0	0621.0	III	B	1	55	180	
			CULG	0714.0	0717.0	III	G	3	18	420	
			LEAR	0714.0	0717.0	III		3	30	80	
	0706	1200	IZMI	0714.3	0714.5	III	B	2	45	115	
			IZMI	0715.0	0715.3	III	G	2	30	255	
			SVTO	0715.0	0717.0	III		2	35	78	
	0000	0809	HIRA	0715.2	0717.2	III	G	2	25X	300	
			IZMI	0715.4	0716.2	III	G	1	50	230	
			IZMI	0716.9	0717.6	III	G,C	2	30	270X	
	0754	1436	ONDR								
	0737	1433	POTS	1001.0	1001.1	III	B	1	110U	145	
			POTS	1010.5	1011.0	III	G	1	110U	170U	
			POTS	1027.9	1029.2	III	G	2	40X	170U	
			IZMI	1028.0	1029.1	III	G	1	45	245	
			POTS	1111.0	1112.0	III	G,RS	2	40X	225U	
			IZMI	1111.3	1112.0	III	G	2	50	245	
			SVTO	1202.0	1204.0	III		1	35	70	
			POTS	1202.5	1204.9	III	GG	2	40X	375U	

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Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	EVENT Spectral Class	EVENT Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
03			POTS	1206	1207	I	S	1	150	170U	
			POTS	1215	1216	I	S	1	155	170U	
			POTS	1351	1353	I	S	1	110U	140	
			POTS	1403.5	1403.6	III	B	1	110U	170U	
	2133	2400	HIRA								
	2030	2400	CULG	2231.0	2234.0	III	G	1	60	80	
04	0000	0745	CULG								
	0000	0810	HIRA								
	0647	1200	IZMI	0731.8	0732.0	III	B	1	60	175	
	0800	1535	BLEN								
	0735	1435	POTS	0815.8	0816.0	III	G	1	110U	170U	
			POTS	0834.5	0834.7	III	G	1	110U	135	
			POTS	0848.6	0848.7	III	B	1	110U	170U	
			IZMI	0914.0	0914.2	III	B	2	45	170	
	0752	1437	ONDR	0914.0	0916.5	DCIM	G	2	2525	4500X	
			POTS	0914.1	0914.2	III	B	2	110U	170U	
			POTS	0917.3	0917.5	III	G	1	140U	170U	
			IZMI	0949.5	0949.6	III	B,U	1	225	255	
			IZMI	1034.3	1035.3	III	G	2	30	135	
			POTS	1034.3	1035.3	III	G	2	40X	170U	
			POTS	1112.1	1112.3	III	B	1	40X	70	
			POTS	1229.9	1230.1	III	B	2	110U	170U	
	2030	2400	CULG	2126.0	2126.0	III	B	1	20	50	
	2132	2400	HIRA								
			CULG	2203.0	2206.0	III	G	1	30	90	
05	0000	0811	HIRA								
	0000	0745	CULG	0516.0	0516.0	III	B	1	60	90	
	0648	1200	IZMI	0708.0	0708.3	III	G	2	135	270X	
			IZMI	0816.1	0816.3	III	G	2	200	270	
			SVTO	0830.0	1518.0	CONT		1	38U	76U	
	0734	1437	POTS	0852.1	0852.2	III	B	1	110U	170U	
			ONDR	0855.4	0856.1	DCIM	G	1	800X	1300	
			POTS	0855.6	0856.1	DCIM		1	400U	700	
			LEAR	0915.0	1009.0	CONT		1	30	70	
			POTS	1030.3	1030.8	III	G	2	40X	170U	
			IZMI	1030.4	1030.7	III	G	1	95	160	
			IZMI	1125.2	1125.5	III	G	2	45	215	
			POTS	1125.3	1125.6	III	B	2	40X	220U	
	0750	1438	ONDR	1253.3	1253.5	DCIM		1	3005	4500X	
			POTS	1309.8	1309.9	III	B	1	110U	130	
			ONDR	1345.1	1346.4	DCIM	GG	1	1320	1725	
	0755	1535	BLEN	1345.5	1346.6	III	GG	2	1280	1720	
			PALE	1921.0	1921.0	III		2	25	75	
			PALE	1921.0	1935.0	II		3	25	180	ESS 0501
			SGMR	1921.0	1921.0	III		1	30	60	
			SGMR	1924.0	1929.0	III		3	30	80	
			PALE	1925.0	1935.0	II		3	25	75	ESS 0500
			PALE	1944.0	1949.0	III		2	25	50	
			SGMR	1944.0	1949.0	III		2	30	55	
	2030	2400	CULG	2038.0	2058.0	III	N	1	23	170	
	2131	2400	HIRA								
			CULG	2345.0	2346.0	III	G	1	18	130	
			LEAR	2345.0	2345.0	III		1	30	60	
06			LEAR	0436.0	0439.0	III		1	30	55	
			LEAR	0513.0	0513.0	III		1	30	40	
	0658	1200	IZMI	0701.0U	0718.0U	I	N	1	200	240	
			IZMI	0702.0U	0916.0U	III	N	1	45	95	
			LEAR	0715.0	0718.0	III		3	30	80	
			SVTO	0715.0	0717.0	V		3	35	85	
	0000	0745	CULG	0715.0	0718.0	III	G	3	25	180	
			IZMI	0715.5	0716.9	III	GG	2	35	270X	
	0000	0812	HIRA	0715.8	0717.2	III	G	3	30	260	
			IZMI	0716.0	0717.4	V	G	2	35	170	
	0748	1443	ONDR								
	0800	1535	BLEN								
	0734	1438	POTS	0817	0818	I	S	1	110U	120	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
06			POTS	0825	0827	I	S	1	110U	130	
			IZMI	0843.8	0843.9	III	B	1	45	95	
			IZMI	0905.7	0906.1	III	G,HARM	2	105	270X	
			POTS	0906.0	0906.2	III	G,U	3	110U	170U	
			POTS	0941	0942	UNCLF		1	110U	120	
			POTS	1007	1010	UNCLF		1	110U	170U	
			IZMI	1021.4	1021.8	III	G	1	200	270X	
			POTS	1031	1032	UNCLF		1	110U	120	
			POTS	1058	1100	I	S	1	160	300U	
			IZMI	1106.3	1106.5	III	B	1	45	65	
			POTS	1116	1117	UNCLF		2	110U	120	
			IZMI	1116.4	1116.8	III	B	1	45	95	
			POTS	1123	1124	UNCLF		1	110U	120	
			IZMI	1123.7	1157.6	III	G	1	45	95	
			POTS	1125	1126	UNCLF		1	110U	120	
			POTS	1153	1154	I	S	1	160	300U	
			POTS	1157	1158	I		1	110U	120	
			IZMI	1157.5	1157.6	III	B	1	45	70	
			POTS	1158.8	1159.1	III	G	1	140U	375U	
			POTS	1200	1201	I		1	110U	120	
			POTS	1215.2	1215.3	III	B	1	40X	70	
			POTS	1226	1227	I		1	110U	120	
			POTS	1231.9	1232.1	III	B	1	40X	130	
			POTS	1232	1234	I	S	1	110U	120	
			POTS	1251	1253	I	S	1	110U	120	
			POTS	1357.2	1357.3	III	B	1	110U	150	
			POTS	1400	1401	I	S	1	110U	170U	
			POTS	1411	1412	I		1	150	160	
			SVTO	1529.0	1530.0	III		2	36U	81U	
	2030	2400	CULG								
	2130	2400	HIRA								
			PALE	2330.0	2330.0	III		1	25	45	
			PALE	2345.0	2345.0	III		1	25	45	
07	0000	0745	CULG	0427.0	0428.0	III	G	1	95	180	
	0000	0813	HIRA	0427.6	0433.4	III	G	2	90	200	
			LEAR	0450.0	0722.0	CONT		1	30	80	
	0659	1200	IZMI	0700.0U	1200.0D	I	N	1	120	245	
	0746	1443	ONDR								
	0750	1535	BLEN								
	0734	1349	POTS	0804	1449 U	I	S	1	110U	300U	
			POTS	0853.9	0854.9	III	G	2	110U	170U	
			LEAR	0854.0	0855.0	III		1	30	54	
			IZMI	0854.5	0855.3	III	G	1	50	125	
			POTS	1054.9	1055.5	III	G	2	110U	170U	
			SVTO	1528.0	1529.0	III		2	36	55	
	2030	2400	CULG	2106.0	2400.0D	I	S	1	70	170	
			CULG	2126.0	2126.0	III	G	1	20	90	
	2129	2400	HIRA								
			CULG	2233.0	2302.0	III	N	1	18	100	
08	0000	0814	HIRA								
	0000	0745	CULG	0000.0E	0644.0	I	S	1	70	170	
			CULG	0121.0	0125.0	III	G	1	18	180	
			LEAR	0122.0	0124.0	III		2	30	80	
			PALE	0122.0	0124.0	III		1	30	45	
	0657	1200	IZMI	0715.6	0716.5	I	GG	2	145	200	
			IZMI	0843.3	0844.3	III	G	2	200	270X	
	0744	1445	ONDR	0844.0	0910.0	DCIM	GG	2	2000X	4500X	
			ONDR	0844.4	0912.3	DCIM	GG,FS	2	800X	2000X	
	0750	1535	BLEN	0844.7	0903.7	III	GG,RS	3	1000X	2650	
	0734	1449	POTS	0846.0	0912 U	DCIM		2	400U	800X	
			IZMI	0847.4	0853.6	III	GG	2	30	270X	
			BLEN	0847.8	0907.0	DCIM	P	2	1300	2800X	
			POTS	0848.8	0900.4	III	GG	3	40X	145	
			LEAR	0849.0	0914.0	III	N	3	30	80	
			SVTO	0849.0	0853.0	III		3	35	85	
			IZMI	0849.4	1150.0U	I	N	2	40	270	
			IZMI	0852.6	0919.8	II	HARM	2	25	245	

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Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	EVENT Spectral Class	EVENT Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
08			POTS	0853 U	0900.4	II	F	2	40X	90U	
			SVTO	0853.0	0902.0	V		3	35	85	
			POTS	0853.2	0916 U	II	SH	3	40X	170U	
			IZMI	0855.0	0857.6	III	GG	3	25X	270X	
			SVTO	0857.0	0916.0	II		3	35	85	ESS 0600
			IZMI	0857.2	0906.3	III	N	2	30	270X	
			LEAR	0858.0	0920.0	II		3	40	80	ESS 0700
			SVTO	0949.0	0953.0	III		3	35	85	
			POTS	1231.2	1232.3	III	G	2	40X	170U	
	2030	2400	CULG								
09	0011	0815	HIRA								
			LEAR	0047.0	0050.0	V		2	30	80	
			PALE	0047.0	0050.0	III		2	25	60	
	0000	0745	CULG	0047.0	0051.0	III	G	2	23	180	
			CULG	0055.0	0055.0	III	B	1	70	180	
			LEAR	0120.0	0210.0	CONT		1	30	80	
			CULG	0526.0	0745.0D	I	S	1	110	170	
			SVTO	0637.0	0923.0	CONT		1	37	56	
			IZMI	0648.0E	0921.0U	III	N	1	45X	95	
	0648	1200	IZMI	0648.0E	1200.0D	I	S	2	105	270X	
	0741	1449	ONDR								
	0734	0757	POTS	0749 E	0757 U	I	S,C,DC	2	110U	170U	
	0807	1453	POTS	0807 E	1453 U	I	S,C,DC	2	110U	300U	
			POTS	0946.5	0947.2	III	G	2	110U	170U	
			POTS	0950.8	0951.0	III	G	2	110U	170U	
			POTS	1023.8	1023.9	III	B	2	110U	150	
			POTS	1028.9	1029.2	III	G	2	110U	170U	
			POTS	1030.3	1030.4	III	B	2	110U	170U	
	0745	1545	BLEN	1304.1	1306.5	III	GG	1	1200	2450	
			PALE	1928.0	1942.0	V		3	25	75	
			SGMR	1931.0	1942.0	V		2	30	80	
	2128	2400	HIRA								
	2030	2400	CULG	2346.0	2346.0	III	B	1	30	80	
10			LEAR	0045.0	0148.0	CONT		1	30	80	
	0000	0745	CULG	0045.0	0052.0	III	GG	1	23	170	
			CULG	0145.0	0225.0	IV		2	50	570U	
	0000	0816	HIRA	0146.0	0210.0	IV		2	140	800	
			CULG	0148.0	0150.0	UNCLF		1	30	40	
			LEAR	0148.0	0158.0	II		2	30	80	ESS 1000
			CULG	0153.0	0158.0	II	UE	1	30	80	
			PALE	0155.0	0159.0	II		1	25	50	ESS 1200
	0701	1200	IZMI	0701.0E	1200.0D	I	S	1	200	270	
	0739	1449	ONDR								
	0745	1545	BLEN								
	0734	1453	POTS	0748	1453 U	I	S	1	110U	250U	
			IZMI	0852.4	0852.5	III	B	2	38	135	
			POTS	0852.4	0852.5	III	B	1	110U	160	
	2030	2400	CULG								
	2127	2400	HIRA								
11	0000	0817	HIRA								
			LEAR	0330.0	0331.0	III		1	30	80	
	0000	0745	CULG	0331.0	0331.0	III	B	1	55	90	
	0713	1457	POTS	0748	1457 U	I	S,C,DC	2	110U	250U	
			POTS	0833.8	0834.2	III	G	1	110U	170U	
			SVTO	0924.0	0925.0	III		1	35	70	
	0646	1200	IZMI	0924.7	0925.0	III	B	2	25	260	
			POTS	0924.8	0925.1	III	G	3	40X	150	
			IZMI	0952.5	0952.6	III	B	1	95	135	
			POTS	0952.5	0952.6	III	B	2	110U	145	
			POTS	1043.8	1044.0	III	G	2	65	170U	
			IZMI	1043.9	1043.9	III	B	1	55	140	
			IZMI	1046.6	1047.1	III	G	2	38	95	
			POTS	1046.6	1047.2	III	G	2	40X	75	
			SVTO	1048.0	1048.0	III		1	35U	85U	
			IZMI	1049.0	1049.7	III	G	2	30	245	
			POTS	1049.2	1049.8	III	G	3	40X	170U	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
11			POTS	1059.8	1101.3	III	G	2	40X	275U	
			IZMI	1103.9	1104.1	III	B,FS	2	45	130	
			POTS	1104.0	1104.1	III	G,RS	1	40X	170U	
			IZMI	1104.7	1105.4	III	G,FS	2	40	120	
			POTS	1104.7	1105.5	III	G,RS	2	40X	120	
			IZMI	1114.2	1114.4	III	B	1	60	135	
			POTS	1114.2	1114.3	III	B	2	110U	140	
			IZMI	1124.0U	1144.0U	I	N	1	200	245	
			POTS	1214.9	1215.0	III	B	1	135	170U	
			POTS	1216.8	1241.1	DCIM	P	3	350U	800X	
			POTS	1217.3	1245.8	III	GG	2	40X	170U	
			BLEN	1222.0	1239.2	III	GG,RS,U	3	1000X	2300	
	0745	1545	BLEN	1222.0	1239.2	III	GG,RS,U	3	1000X	2300	
	0737	1451	ONDR	1222.4	1240.1	DCIM	GG,FS	3	800X	1750	
			POTS	1234.1	1237.5U	II	F	2	40X	45U	
			POTS	1234.2	1238.3	II	SH,H	2	55	90U	
			POTS	1253.0	1253.3	III	B	3	40X	170U	
			POTS	1254.2	1255.1	III	G	2	40X	170U	
			POTS	1257.2	1257.5	III	B	2	40X	130	
			ONDR	1321.5	1322.2	DCIM	G	2	1170	1695	
			BLEN	1321.8	1322.5	III	GG,RS	3	1100	1950	
			POTS	1344.8	1345.6	III	G	2	40X	70	
			POTS	1355.2	1356.4	III	GG,RS	2	40X	170U	
			POTS	1357.2	1359.0	III	G	2	110U	170U	
			POTS	1432.7	1432.9	III	B	1	40X	55	
			POTS	1456.3	1456.5	III	G	2	110U	160	
	2030	2400	CULG								
	2126	2400	HIRA								
12			LEAR	0030.0	0031.0	III		2	30	80	
	0000	0745	CULG	0030.0	0034.0	III	G	1	20	150	
			LEAR	0158.0	0203.0	III		2	30	80	
			PALE	0158.0	0159.0	III		1	30	45	
			CULG	0200.0	0204.0	III	G	1	20	90	
			CULG	0403.0	0411.0	II	FN	3	35	90	
			CULG	0403.0	0412.0	II	SH	3	60	180	ESS 800
			CULG	0403.0	0435.0	IV		1	50	500	
			HIRA	0405.4	0407.8	II	SH	3	80	150	ESS 750
	0000	0818	HIRA	0405.4	0407.2	II	FN	3	50	80	ESS 750
			CULG	0406.0	0410.0	III	G	1	18	250	
			LEAR	0406.0	0407.0	III		3	30	80	
			LEAR	0406.0	0417.0	II		1	30	80	ESS 0700
			CULG	0412.0	0419.0	II	FN	3	30	70	
			CULG	0412.0	0419.0	II	SH	3	60	140	ESS 800
			LEAR	0412.0	0536.0	IV		3	30	80	
			HIRA	0412.2	0415.8	II	FN	3	40	70	ESS 750
			HIRA	0412.2	0416.6	II	SH	3	60	120	ESS 750
			CULG	0413.0	0415.0	III	G	1	18X	180	
			CULG	0419.0	0421.0	III	G	3	20	110	
			HIRA	0419.6	0421.6	IV		2	50	170	
			CULG	0422.0	0432.0	UNCLF		2	110	180	
			CULG	0423.0	0427.0	UNCLF		2	28	80	
	0649	1200	IZMI								
	0735	1455	ONDR								
	0740	1545	BLEN								
	0713	1458	POTS	0940	0941	I		1	110U	120	
			POTS	1349	1350	I	S	1	120	160	
	2030	2400	CULG								
	2125	2400	HIRA								
13	0000	0819	HIRA								
	0000	0745	CULG	0403.0	0405.0	III	G	1	60	140	
	0646	1200	IZMI								
	0733	1458	ONDR								
	0740	1545	BLEN								
	0713	1501	POTS	0803	1501 U	I	S,C,DC	2	40X	170U	
			POTS	1300.2	1308.3	III	GG	2	40X	170U	
	2030	2400	CULG	2230.0	2231.0	III	G	1	120	180	
	2124	2400	HIRA	2230.4	2230.6	III	B	1	110	220	

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13			CULG	2242.0	2243.0	III	G	1	18	140	
			HIRA	2242.2	2242.4	III	B	1	80	140	
14	0000	0745	CULG								
	0000	0820	HIRA								
	0702	1200	IZMI								
	0731	1458	ONDR								
	0740	1545	BLEN								
	0713	1503	POTS	0806	1503 U	I	S,W	1	110U	170U	
			POTS	1428.6	1429.2	III	G	2	110U	170U	
	2030	2400	CULG								
	2123	2400	HIRA								
15	0000	0745	CULG								
	0000	0821	HIRA								
	0729	1502	ONDR								
	0740	1545	BLEN								
	0646	1443	POTS	0937.8	0938.4	III	G	2	110U	170U	
	0705	1200	IZMI	0937.8	0939.1	III	G	2	70	270X	
			POTS	0942.9	0943.3	III	G	2	60	170U	
			IZMI	0943.0	0944.1	III	G	2	55	145	
			IZMI	1158.5	1158.8	III	G	2	150	255	
			POTS	1158.6	1158.7	III	B	2	150	250U	
			POTS	1203	1212	I	S	2	110U	130	
			POTS	1255	1257	I	S,W	1	150	170U	
			POTS	1312.6	1312.9	III	G	2	110U	160	
			POTS	1350	1352	I	S	1	150	170U	
			POTS	1420.5	1422.7	III	GG	2	40X	170U	
			POTS	1442.0	1442.3	III	G	1	110U	170U	
	2030	2400	CULG								
	2306	2400	HIRA								
16			LEAR	0040.0	0041.0	III		2	30	80	
			PALE	0040.0	0041.0	III		1	25	55	
	0000	0745	CULG	0040.0	0041.0	III	G	2	18X	150	
	0000	0822	HIRA	0040.6	0040.8	III	B	1	25X	140	
			CULG	0317.0	0320.0	III	G	1	50	130	
			LEAR	0317.0	0318.0	III		1	30	55	
			CULG	0556.0	0556.0	III	B	1	18	70	
	0700	1200	IZMI	0718.9	0719.5	III	G,U	2	40	260	
			CULG	0719.0	0720.0	III	G	2	20	220	
			IZMI	0719.0	0720.3	V	G	2	45	160U	
			LEAR	0719.0	0720.0	III		3	30	80	
			SVTO	0719.0	0719.0	V		1	35	85	
	0714	1507	POTS	0719.0	0719.7	III	G	2	40X	135	
			HIRA	0719.2	0719.6	III	B	2	40	200	
	0726	1502	ONDR								
			IZMI	0726.6	0726.9	III	G	1	160	270X	
			POTS	0833.0	0833.1	III	G	1	130	170U	
			POTS	0840	1507 U	I	S,W	1	110U	170U	
			IZMI	0845.0	0845.3	III	G	1	150	245	
			POTS	0845.2	0845.4	UNCLF		2	155	170U	
			IZMI	0848.2	0848.3	III	B,U	1	185	215	
			IZMI	1000.8	1001.8	III	G	2	50	85	
			POTS	1000.8	1001.1	III	G	1	40X	70	
			IZMI	1023.9	1024.0	III	B	2	45	175	
			POTS	1024.0	1024.1	III	B	2	40X	170U	
			IZMI	1025.7	1025.9	III	G	2	45	120	
			IZMI	1149.0	1149.3	III	G,U	2	25X	270X	
			POTS	1149.0	1149.7	III	G,RS	3	40X	300U	
			SVTO	1149.0	1149.0	III		1	35	85	
			IZMI	1149.2	1149.8	V	G	2	50	160	
			POTS	1149.4U	1149.8	V		3	40X	70	
	1255	1545	BLEN								
			POTS	1326.1	1326.3	III	G	1	110U	170U	
			POTS	1404.1	1404.4	III	G	1	110U	170U	
			POTS	1405.1	1405.2	III	G	1	110U	170U	
			POTS	1406.1	1409.3	III	G	2	40X	170U	
			PALE	1924.0	1925.0	III		2	25	75	

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16			SGMR	1924.0	1925.0	III		3	30	80	
	2030	2400	CULG	2128.0	2129.0	III	G	1	30	160	
			CULG	2134.0	2136.0	III	G	2	20	160	
			PALE	2134.0	2134.0	III		1	25	55	
	2121	2400	HIRA	2134.2	2134.4	III	B	1	40	130	
			CULG	2224.0	2224.0	III	B	1	45	90	
			CULG	2343.0	2346.0	III	G	1	35	160	
17	0000	0745	CULG								
	0000	0800	HIRA								
	0724	1503	ONDR								
	0713	1509	POTS	0742	1509 U	I	S	1	110U	250U	
			POTS	0843.2	0843.3	III	B	1	110U	170U	
	0930	1530	BLEN								
	0646	1200	IZMI	1024.2	1024.7	I	GG	1	225	255	
			SVTO	1057.0	1305.0	CONT		1	35	64	
			POTS	1327.3	1327.4	III	B	1	50	170U	
			POTS	1408.8	1409.3	III	G	1	135	170U	
			POTS	1423.1	1429.8	III	GG	2	40X	170U	
			SVTO	1437.0	1437.0	III		1	36	77	
			POTS	1437.7	1438.3	III	G	3	40X	170U	
			POTS	1443.2	1444.3	III	G	2	110U	170U	
			POTS	1445.2	1446.0	III	G	2	40X	150	
			PALE	1852.0	1905.0	II		2	25	75	ESS 0700
			PALE	2024.0	2040.0	III		3	25	75	
			CULG	2025.0	2040.0	II	FN	3	25U	90	
			SGMR	2025.0	2033.0	III		2	30	80	
	2020	2400	CULG	2025.0	2040.0	II	SH	3	26U	180	ESS 800
			CULG	2038.0	2049.0	II	FN	3	25U	70	
			CULG	2038.0	2049.0	II	SH	1	40	150	ESS 550
			PALE	2043.0	2047.0	III		2	25	38	
			CULG	2050.0	2400.0D	III	S	1	28	180	
	2120	2400	HIRA								
18	0000	0745	CULG	0000.0E	0319.0	III	S	1	28	170	
			CULG	0206.0	0209.0	III	G	2	18X	180	
			LEAR	0206.0	0208.0	III		3	30	80	
			PALE	0206.0	0208.0	III		1	25	75	
	0000	0823	HIRA	0206.0	0206.4	III	B	2	25X	170	
			CULG	0319.0	0745.0D	I	S	1	100	170	
			CULG	0539.0	0539.0	III	B	1	30	90	
			CULG	0645.0	0647.0	III	G	1	23	300	
			LEAR	0645.0	0647.0	III		2	30	80	
			HIRA	0645.4	0645.6	III	B	1	40	140	
	0722	1508	ONDR								
	0728	1200	IZMI	0728.0E	1200.0D	I	S	2	85	270X	
	0735	1530	BLEN								
	0713	0754	POTS	0737 E	0754 U	I	S,C,DC	2	110U	170U	
			IZMI	0748.5	0749.2	III	G	1	45	135	
			IZMI	0756.0	0756.3	III	G,HARM	2	45	150	
			LEAR	0756.0	0809.0	III	N	1	30	80	
			IZMI	0756.3	0756.5	V		2	55	65	
	0801	1457	POTS	0801 E	1457 U	I	S,C,DC	2	110U	350U	
			IZMI	0806.5	0809.2	III	GG	2	45X	150	
			POTS	0806.6	0808.6	III	GG	2	75	170U	
			IZMI	0847.6	0847.7	III	B	1	45	65	
			IZMI	0913.6	0915.7	II		1	120	180	
			POTS	0918.5	0949 U	II	SH,H	3	40X	170U	
			IZMI	0918.6	0935.9	II	HARM	2	35	175	
			LEAR	0919.0	0951.0	II		2	35	80	ESS 0800
			SVTO	0919.0	0951.0	II		2	35	85	ESS 1400
			IZMI	0919.5	0924.5	III	N	2	30	95	
			POTS	0919.5	0924.9U	II	F	2	40X	75U	
			LEAR	0923.0	0925.0	III		3	30	80	
			IZMI	0934.0U	0938.0U	I	GG	2	45	65	
			IZMI	0936.7	0947.3	II	HARM	1	40	175	
			POTS	1341.7	1341.9	III	B	1	40X	70	
			POTS	1409.0	1410.3	III	G	3	50	170U	
			PALE	1938.0	1944.0	III		2	25	75	

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18	2119	2400	HIRA								
	2030	2400	CULG	2126.0	2126.0	III	B	1	25	45	
			CULG	2130.0	2130.0	III	B	1	23	90	
			CULG	2228.0	2228.0	III	B	1	18	100	
19			LEAR	0426.0	0427.0	III		2	30	80	
	0000	0745	CULG	0427.0	0427.0	III	B	1	18	180	
	0000	0824	HIRA	0427.0	0427.2	III	B	1	50	160	
	0720	1509	ONDR								
	0735	1530	BLEN								
	0713	1512	POTS	0737	1512 U	I	S,C	2	110U	170U	
			POTS	0832.9	0833.6	III	G,U	2	120	170U	
	0655	1200	IZMI	0833.0	0833.5	III	G	2	120	180	
			SVTO	0835.0	0836.0	III		1	35	85	
			IZMI	0837.0	0837.3	III	G	2	185	270	
			LEAR	0840.0	0858.0	II		1	40	65	ESS 0600
			IZMI	0840.4	0847.8	II	HARM	2	38	135	
			POTS	0840.4	0857 U	II	SH	3	40X	140	
			LEAR	0844.0	0848.0	III		2	35	80	
			SVTO	0844.0	0858.0	II		1	35	85	ESS 1200
			POTS	0844.7	0845.4U	II	F	2	40X	55	
			IZMI	0852.1	0855.8	II		2	40	65	
			IZMI	0950.0U	1200.0U	I	N	1	90	180	
			IZMI	1143.7	1143.8	III	B	1	30	45	
			POTS	1317.6	1317.7	III	B	2	110U	135	
	2030	2400	CULG	2117.0	2117.0	III	B	1	20	50	
	2118	2400	HIRA								
			CULG	2302.0	2303.0	III	G	1	35	90	
			CULG	2309.0	2311.0	III	G	1	23	110	
20			LEAR	0549.0	0549.0	III		1	30	42	
			SVTO	0617.0	0618.0	III		1	35U	80U	
			LEAR	0618.0	0631.0	III	N	2	30	80	
	0000	0745	CULG	0618.0	0619.0	III	G	1	35	90	
			CULG	0625.0	0625.0	III	B	1	23	120	
			CULG	0630.0	0630.0	III	B	1	40	90	
	0000	0825	HIRA	0658.4	0658.6	III	B	2	100	260	
			CULG	0659.0	0659.0	III	B	1	80	260	
	0703	1200	IZMI	0714.2	0714.3	III	B	2	265	270X	
	0717	1511	ONDR								
			IZMI	0717.5	0717.7	III	G	2	200	255	
			IZMI	0732.0	0732.0	III	G	1	135	250	
	0713	1513	POTS	0735	1513 U	I	S,W	1	110U	300U	
	0735	1530	BLEN								
			POTS	0744.0	0744.1	III	B	1	140U	170U	
			IZMI	0753.1	0755.6	III	GG	1	45	150	
			POTS	0753.4	0754.5	III	G	2	110U	160	
			IZMI	0757.4	0759.7	III	G	1	45	135	
			POTS	0758.0	0759.6	III	GG	2	110U	140	
			LEAR	0848.0	0851.0	III		2	30	80	
			SVTO	0848.0	0852.0	III		1	35	79	
			IZMI	0848.8	0851.1	III	G	1	40	120	
			IZMI	0930.6	0931.1	III	G	1	95	140	
			POTS	0930.7	0930.8	III	B	2	110U	150	
			IZMI	1010.7	1010.8	I	G	1	240	255	
			POTS	1034.1	1037.5	III	GG	2	110U	170U	
			POTS	1049.4	1049.5	III	B	1	110U	170U	
			POTS	1137.4	1138.3	III	G	2	110U	170U	
			SVTO	1141.0	1145.0	III		1	38	83	
			IZMI	1141.8	1141.9	III	G,FS	2	38	140	
			POTS	1141.8	1142.2	III	G	2	40X	170U	
			IZMI	1141.9	1142.1	V		2	45	105	
			POTS	1145.0	1146.8	III	G	3	40X	250U	
			IZMI	1145.2	1146.6	III	GG	2	55	150	
			IZMI	1147.8	1148.4	III	G	2	45	145	
			POTS	1147.8	1148.9	III	G	2	40X	250U	
			POTS	1149.9	1150.0	III	B	1	110U	160	
			POTS	1320.4	1320.5	III	G	1	110U	140	
			POTS	1327.3	1327.7	III	G	2	110U	140	

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20			POTS	1331.3	1332.1	III	G	2	110U	170U	
			POTS	1355.4	1355.5	III	B	1	110U	170U	
			POTS	1356.3	1356.7	III	G	1	40X	170U	
			POTS	1358.6	1358.7	III	B	1	110U	150	
			POTS	1454.5	1454.6	III	B	1	110U	170U	
			PALE	1934.0	1934.0	III		1	25	50	
			PALE	2024.0	2058.0	III	N	1	25	50	
			PALE	2206.0	2206.0	III		1	30	50	
	2030	2400	CULG	2206.0	2207.0	III	G	2	20	500	
			CULG	2207.0	2216.0	II	FN	1	50	90	
	2117	2400	HIRA	2207.4	2215.8	II		2	90	180	ESS 450
			CULG	2208.0	2216.0	II	SH	2	100	180	ESS 450
			CULG	2231.0	2231.0	III	B	1	30	90	
21	0000	0745	CULG	0007.0	0007.0	III	B	1	60	150	
			CULG	0024.0	0038.0	III	N	1	30	100	
			LEAR	0024.0	0024.0	III		1	30	55	
			LEAR	0026.0	0029.0	III		1	30	55	
			CULG	0058.0	0058.0	III	B	1	30	90	
			LEAR	0142.0	0212.0	III	N	1	30	55	
			CULG	0143.0	0144.0	III	G	1	30	80	
			CULG	0208.0	0221.0	III	N	1	23	140	
			LEAR	0214.0	0220.0	III		2	30	65	
			LEAR	0322.0	0322.0	III		1	30	55	
			LEAR	0345.0	0345.0	III		1	30	55	
			CULG	0421.0	0425.0	III	G	1	28	100	
			LEAR	0421.0	0511.0	III	N	3	30	80	
			CULG	0450.0	0453.0	III	G	2	18	280	
	0000	0826	HIRA	0451.4	0451.8	III	B	2	25X	240	
			CULG	0511.0	0511.0	III	B	1	30	100	
			LEAR	0645.0	0646.0	III		1	30	51	
	0646	1200	IZMI	0645.8	0646.2	III	G,HARM	1	50	140	
			IZMI	0700.8	0701.8	III	G	1	45	90	
	0715	1513	ONDR								
			LEAR	0717.0	0718.0	III		1	30	60	
			IZMI	0717.7	0718.1	III	G	1	50	140	
			CULG	0718.0	0718.0	III	B	1	25	140	
			IZMI	0721.5	0721.7	III	B	1	50	140	
			IZMI	0725.0U	0731.7	III	N	1	45	90	
	0735	1530	BLEN								
	0652	1518	POTS	0739.8	0739.9	III	B	1	110U	145	
			POTS	0745	1518 U	I	S	1	110U	250U	
			CULG	0745.0	0745.0	III	B	1	28	120	
			POTS	0748	1518 U	III	N	1	110U	170U	
			IZMI	0803.1	0807.5	III	GG,FS	2	30	160	
			LEAR	0804.0	0808.0	III		2	30	80	
			SVTO	0804.0	0805.0	III		1	35U	45U	
			POTS	0804.7	0808.1	III	GG	2	40X	170U	
			IZMI	0807.9	0808.0	III	B	1	50	95	
			IZMI	0818.2	0818.3	III	B	1	45	65	
			IZMI	0829.3	0833.72	III	G	1	45	90	
			LEAR	0845.0	0932.0	III	N	1	30	80	
			IZMI	0845.7	0846.2	III	G	2	55	270	
			POTS	0845.7	0846.3	III	G	2	75	170U	
			IZMI	0849.7	0850.1	III	G	2	45	85	
			IZMI	0903.0	0904.4	III	G	1	50	95	
			IZMI	0912.5	0912.6	III	B	1	145	175	
			POTS	0912.5	0913.2	III	G	2	110U	170U	
			IZMI	0914.2	0914.4	III	B	2	45	95	
			POTS	0914.2	0914.3	III	B	1	75	125	
			IZMI	0918.5	0918.6	III	B	2	45	95	
			IZMI	0932.3	0933.4	III	G	2	50	160	
			POTS	0932.4	0933.4	III	G	2	55	170U	
			IZMI	0942.5	0942.7	III	B	1	55	85	
			IZMI	1006.4	1007.2	III	G	1	45	110	
			POTS	1006.4	1006.6	III	G	2	40X	145	
			IZMI	1019.6	1020.4	III	G	2	55	270X	
			POTS	1019.6	1020.4	III	G,U	2	40X	275U	
			POTS	1023.5	1027.5	III	GG	2	40X	170U	

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21		IZMI	1024.0	1024.1	III	B	2	55	170	
		IZMI	1025.2	1027.3	III	GG	2	45	180	
		POTS	1029.0	1029.1	III	B	2	110U	140	
		IZMI	1029.5	1037.0	III	N	1	45	95	
		IZMI	1045.8	1046.1	III	B	2	55	160	
		POTS	1045.8	1046.0	III	G,RS	2	110U	170U	
		IZMI	1048.6	1115.0	I	S	1	200	245	
		IZMI	1051.6	1056.7	III	GG	2	45	95	
		POTS	1052.8	1054.0	III	G	2	40X	170U	
		IZMI	1053.6	1053.9	III	G	2	25X	215	
		POTS	1056.1	1056.7	III	G	2	40X	170U	
		POTS	1204.4	1205.2	III	G	3	110U	375U	
		POTS	1224.2	1225.1	III	G	2	40X	170U	
		POTS	1318.1	1319.2	III	G,U	2	110U	170U	
		POTS	1325.7	1326.3	III	B	2	40X	170U	
		SVTO	1326.0	1326.0	III		1	35	42	
		POTS	1346.7	1346.9	III	B	2	40X	170U	
		POTS	1416.0	1416.3	III	G,U	3	40X	170U	
		POTS	1435.5	1436.0	III	G,U	2	110U	140	
		PALE	1741.0	1743.0	III		2	25	75	
2030	2400	CULG	2231.0	2341.0	III	S	1	23	300	
2116	2400	HIRA	2238.0	2238.2	III	B	1	150	460	
22		LEAR	0136.0	0201.0	III	N	2	30	80	
0000	0745	CULG	0136.0	0201.0	III	N	1	30	170	
		CULG	0258.0	0258.0	III	B	1	60	140	
		CULG	0309.0	0605.0	I	S	1	110	170	
		CULG	0442.0	0447.0	III	G	1	18X	180	
		LEAR	0443.0	0445.0	III		2	30	80	
		LEAR	0555.0	0559.0	III		3	30	80	
		CULG	0556.0	0600.0	III	G	2	18	140	
		SVTO	0556.0	0557.0	III		1	42	85	
0000	0827	HIRA	0556.2	0558.0	III	G	2	40	120	
		CULG	0627.0	0630.0	III	G	1	23	180	
		LEAR	0627.0	0627.0	III		2	30	80	
0646	1200	IZMI	0648.1	0655.0	III	N	1	45	90	
		LEAR	0656.0	0657.0	III		1	33	63	
		IZMI	0656.5	0657.1	III	G	2	45	90	
		CULG	0658.0	0745.0D	III	N	1	25	90	
		IZMI	0708.0U	1200.0D	I	S	2	95	270X	
		LEAR	0710.0	0710.0	III		1	30	70	
		IZMI	0710.6	0711.0	III	G	2	45	95	
		IZMI	0718.7	0719.1	III	G	2	50	95	
		IZMI	0728.8	0728.9	III	B	2	55	110	
0652	1520	POTS	0731	1520 U	I	S,C,DC	2	40X	350U	
		POTS	0745.9	0746.1	III	B	2	110U	130	
		IZMI	0746.0	0746.8	III	G	2	55	135	
		IZMI	0749.7	0751.3	III	GG	2	55	140	
		IZMI	0838.1	0838.2	III	B	2	240	270X	
		IZMI	0844.5	0844.8	III	G	1	50	95	
		LEAR	0901.0	0902.0	III		2	30	80	
		SVTO	0901.0	0902.0	III		1	35U	76U	
		IZMI	0901.8	0902.0	III	B	2	45	130	
		POTS	0901.8	0902.1	III	G	2	40X	150	
		IZMI	0920.0	0920.1	III	B	2	45	95	
		LEAR	0941.0	0944.0	III		2	30	80	
		IZMI	0941.3	0943.9	III	GG	2	30	160	
		POTS	0941.4	0944.0	III	GG	3	40X	170U	
		SVTO	0942.0	0944.0	III		1	35	85	
		IZMI	0951.6	0951.9	III	G,HARM	1	45	135	
		POTS	0951.6	0951.8	III	G	2	40X	170U	
		POTS	0952.6	0952.7	III	B	2	110U	150	
		POTS	0957.7	0958.1	III	G	1	110U	170U	
		POTS	1000.7	1000.8	III	G	2	110U	170U	
		POTS	1001.8	1001.9	III	G	2	110U	170U	
		IZMI	1018.1	1018.2	III	B	1	45	95	
		IZMI	1018.2	1027.3	I	G,DC	2	130	162	
		IZMI	1052.5	1053.7	III	G	1	50	90	
		POTS	1052.5	1053.7	III	G	2	40X	120U	

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OBSERVATION Start (UT)	OBSERVATION End (UT)	Day	Sta	EVENT Start (UT)	EVENT End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
		22	POTS	1057.8	1059.0	III	B	2	40X	170U	
			IZMI	1103.5	1104.5	III	G	2	50	180	
			POTS	1103.6	1104.5	III	G	2	40X	160	
			IZMI	1111.7	1111.9	III	B	2	55	170	
			POTS	1111.7	1111.8	III	B	2	40X	145	
0713	1515		ONDR	1134.4	1136.4	DCIM	G,W	1	800X	2000X	
			IZMI	1134.5	1137.2	III	G	2	200	270X	
			SVTO	1148.0	1150.0	III		1	35	77	
			IZMI	1148.7	1152.3	III	GG	2	25X	120	
			POTS	1148.7	1150.2	III	B	3	40X	120U	
			POTS	1148.9	1149.4	V		3	40X	55	
			POTS	1152.1	1152.5	III	G	2	40X	120	
			SVTO	1222.0	1358.0	CONT		1	35	85	
			POTS	1222.2	1224.2	III	G	1	40X	90U	
			POTS	1225.2	1230.3	III	G	2	40X	90U	
			POTS	1230	1410	III	N	1	40X	90U	
			POTS	1230	1442	III	N	2	40X	90U	
			POTS	1238.0	1238.6	III	G	3	40X	70	
			SGMR	1238.0	1251.0	III		1	30	70	
			ONDR	1300.4	1301.2	DCIM	GG,SP	2	800X	2000X	
0735	1530		BLEN	1300.6	1302.2	DCIM	C	2	1000X	1900	
			POTS	1334.2	1334.6	III	B	3	40X	70	
			SGMR	1345.0	1346.0	III		1	30	50	
			POTS	1345.7	1346.1	III	G	3	40X	90U	
			SGMR	1444.0	1450.0	III		2	30	80	
			SVTO	1444.0	1450.0	III		1	35	85	
			POTS	1444.6	1450.3	III	G	3	40X	170U	
			POTS	1450.3	1450.8	V		2	40X	65	
			POTS	1511.5	1511.6	III	B	3	40X	170U	
			PALE	1817.0	1817.0	III		1	30	70	
			SGMR	1817.0	1817.0	III		1	30	80	
2030	2400		CULG	2030.0E	2400.0D	I	S	1	60	180	
			CULG	2033.0	2049.0	III	N	1	23	90	
			CULG	2122.0	2400.0D	III	N	1	20	160	
			PALE	2139.0	2140.0	III		1	25	40	
			LEAR	2309.0	2314.0	III		2	35	80	
			PALE	2309.0	2309.0	III		1	25	75	
			PALE	2328.0	2332.0	III		2	25	75	
			LEAR	2329.0	2332.0	III		3	30	80	
			CULG	2330.0	2331.0	III	G	3	18X	180	
		23	CULG	0000.0E	0221.0	III	N	1	20	180	
0000	0745		CULG	0000.0E	0745.0D	I	S	1	70	180	
			LEAR	0008.0	0432.0	CONT		2	30	80	
			PALE	0008.0	0100.0	III	N	1	25	75	
			LEAR	0402.0	0410.0	III		3	30	80	
			CULG	0403.0	0410.0	III	GG	2	18X	280	
0003	0828		HIRA	0403.2	0410.0	III	G	2	30	280	
			LEAR	0524.0	0525.0	III		2	30	57	
			CULG	0525.0	0525.0	III	B	1	30	80	
			LEAR	0536.0	0958.0	III	N	3	30	80	
			HIRA	0536.4	0536.6	III	B	2	30	220	
			CULG	0537.0	0537.0	III	B	3	18X	200	
			CULG	0550.0	0551.0	III	G	1	28	180	
0701	1200		IZMI	0701.0E	1200.0D	I	S	2	80	270	
			IZMI	0701.5	0701.6	III	B	2	45	95	
0711	1517		ONDR								
			IZMI	0712.5	0712.7	III	B	2	45	95	
			CULG	0713.0	0713.0	III	B	1	28	90	
			SVTO	0716.0	0720.0	III		1	35	75	
			IZMI	0716.5	0717.0	III	G	2	25X	150	
0617	1414		POTS	0716.6	0716.9	III	B	1	40X	70	
			CULG	0717.0	0721.0	III	G	2	20	120	
			IZMI	0717.7	0717.8	III	B	1	55	110	
			IZMI	0719.0	0721.1	III	GG	2	40	135	
			POTS	0730 E	1414 U	I	S,C,DC	2	80	350U	
			IZMI	0733.1	0733.7	III	G	1	55	95	
0735	1530		BLEN								
			IZMI	0827.6	0827.7	III	B	1	55	95	

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OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	EVENT Spectral Class	EVENT Event Remarks	FREQUENCY Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
23		IZMI	0830.5	0831.5	III	G	1	45	145	
		IZMI	0836.5	0837.5	III	G	1	45	95	
		IZMI	0839.9	0841.3	III	GG	2	40	125	
		IZMI	0846.0	0847.7	III	GG	2	30	145	
		SVTO	0846.0	0847.0	III		1	35	85	
		POTS	0846.7	0847.7	III	G,C	3	40X	170U	
		IZMI	0849.7	0850.8	I	GG	2	205	270X	
		IZMI	0936.4	0940.2	III	GG	2	35	110	
		POTS	0936.6	0939.1	III	G	2	40X	140U	
		POTS	0940	1223	III	N	1	40X	90U	
		IZMI	0956.3	0956.4	III	B	1	45	85	
		IZMI	0958.0	0958.2	III	G	2	40	65	
		POTS	0958.0	0958.3	III	G	2	40X	120	
		IZMI	1023.4	1023.5	III	B	1	45	70	
		IZMI	1027.8	1028.0	III	B	2	45	65	
		IZMI	1047.5	1047.9	III	G	2	35	100	
		POTS	1047.5	1048.0	III	G	2	40X	120	
		IZMI	1110.0	1110.2	III	G	2	30	65	
		POTS	1110.0	1110.2	III	B	2	40X	80	
		IZMI	1112.6	1115.8	III	GG	2	30	130	
		POTS	1112.9	1114.5	III	G	2	40X	170U	
		POTS	1115.1	1115.5	III	G	2	40X	170U	
		IZMI	1137.6	1137.9	III	B	2	45	95	
		SGMR	1254.0	1255.0	III		1	30	80	
		SVTO	1254.0	1255.0	III		1	35	85	
		POTS	1254.7	1255.1	III	B	3	40X	250U	
		POTS	1254.9	1255.3	V		3	40X	55	
		PALE	1719.0	1720.0	III		1	25	62	
		SGMR	1719.0	1720.0	III		2	30	70	
		PALE	1900.0	1901.0	III		1	25	65	
		PALE	2004.0	2010.0	III		1	25	55	
	2030	CULG	2050.0	2055.0	III	G	1	60	180	
		CULG	2103.0	2108.0	III	G	1	23	180	
		PALE	2106.0	2107.0	III		1	25	46	
		CULG	2128.0	2129.0	III	G	2	20	120	
		PALE	2128.0	2129.0	III		2	25	55	
	2114	HIRA	2128.2	2128.4	III	B	1	25X	80	
		CULG	2129.0	2137.0	III	G	1	23	50	
		CULG	2141.0	2141.0	III	B	1	60	200	
		CULG	2257.0	2350.0	I	S	1	120	170	
		CULG	2303.0	2304.0	III	G	1	30	70	
		CULG	2351.0	2351.0	III	B	1	25	80	
24		LEAR	0017.0	0019.0	III		2	30	80	
		PALE	0017.0	0019.0	III		1	25	75	
	0000	CULG	0018.0	0021.0	III	G	1	20	160	
		CULG	0120.0	0124.0	UNCLF		1	130	180	
		CULG	0229.0	0442.0	I	S	1	120	170	
		LEAR	0326.0	0339.0	III	N	3	30	80	
		PALE	0331.0	0332.0	III		1	35	75	
		CULG	0332.0	0333.0	III	G	2	18X	150	
	0000	HIRA	0332.0	0337.6	III	G	2	25X	140	
		CULG	0336.0	0339.0	III	G	1	18	150	
		CULG	0446.0	0446.0	III	B	1	18	90	
		LEAR	0446.0	0446.0	III		2	30	70	
	0659	IZMI	0659.0	1200.0D	I	S,C	2	180	270X	
		IZMI	0700.3	0700.5	III	B,HARM	2	45	165	
		IZMI	0718.0	0719.8	III	G	1	55	120	
	0652	POTS	0728 E	1510 U	I	S,C	2	110U	250U	
	1510	IZMI	0757.5	0757.6	III	B	1	45	85	
		IZMI	0807.6	0807.7	III	B	1	55	70	
		IZMI	0816.1	0816.2	III	B,HARM	1	65	145	
		IZMI	0855.9	0857.0	III	G	2	110	175	
		POTS	0855.9	0856.6	III	G,U	3	110U	170U	
		IZMI	0900.8	0900.9	III	B	1	45	65	
		IZMI	0940.8	0941.0	III	G	2	50	100	
	0709	ONDR	0951.2	0953.2	DCIM	G,W	1	2070	4500X	
	1520	IZMI	1017.7	1018.6	III	G	2	25	95	
		POTS	1018.2	1018.4	III	B	2	40X	70	

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OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
24			IZMI	1026.7	1026.8	III	B	1	45	70	
			IZMI	1138.4	1138.6	III	B	2	135	250	
			IZMI	1150.1	1150.4	III	G	1	120	180	
			POTS	1150.3	1150.5	III	G	2	115	170U	
			IZMI	1155.0	1155.2	III	G	2	90	135	
			POTS	1155.0	1155.4	III	G	2	110U	170U	
			POTS	1157.4	1157.5	III	B	1	110U	170U	
			POTS	1214.3	1214.6	III	G,U	2	110U	170U	
			POTS	1244.1	1244.3	III	B	2	40X	70	
			POTS	1339.3	1339.5	III	B	2	110U	160	
			SGMR	1356.0	1357.0	III		1	30	50	
			POTS	1356.9	1357.6	III	G	3	40X	150	
			SVTO	1357.0	1357.0	III		1	35	46	
			POTS	1400.5	1400.9	III	G	1	110U	170U	
			POTS	1402.9	1403.1	III	B	2	40X	145	
			POTS	1405.8	1406.5	III	G	2	40X	170U	
			POTS	1414.9	1414.9	III	B	1	40X	70	
			ONDR	1436.5	1440.5	DCIM	G	1	835	2000X	
			ONDR	1437.0	1439.4	DCIM	G	1	2000X	4500X	
	0745	1530	BLEN	1437.1	1442.5	DCIM	C	1	1000	2800X	
			SGMR	1602.0	1602.0	III		1	30	60	
	2030	2400	CULG	2123.0	2123.0	III	B	1	75	250	
			CULG	2149.0	2149.0	III	B	1	25	150	
			CULG	2157.0	2159.0	III	G	1	60	180	
	2112	2400	HIRA	2158.2	2158.4	III	B	1	80	200	
			CULG	2334.0	2334.0	III	B	1	20	80	
25	0000	0745	CULG	0205.0	0205.0	III	B	1	55	150	
			LEAR	0250.0	0251.0	III		1	30	52	
			CULG	0258.0	0258.0	III	B	1	60	170	
			LEAR	0455.0	0458.0	III		3	30	80	
			CULG	0456.0	0501.0	III	GG	1	23	230	
	0000	0830	HIRA	0456.2	0457.4	III	G	1	50	200	
			CULG	0504.0	0511.0	UNCLF		1	65	180	
			CULG	0514.0	0515.0	III	G	1	55	140	
	0646	1200	IZMI	0651.0U	1200.0D	I	S	2	120	270X	
			IZMI	0759.4	0759.5	III	G	2	120	160	
	0730	1530	BLEN	0855.1	0900 U	DCIM	P	1	1000X	2800X	
	0706	1522	ONDR	0855.2	0918.0	DCIM	GG	2	800X	2000X	
			IZMI	0857.9	0859.7	III	GG	2	38	270X	
			LEAR	0858.0	0858.0	III		2	37	80	
			SVTO	0858.0	0859.0	III		1	35	85	
	0652	1534	POTS	0858.4	0859.0	III	G	2	40X	90U	
			IZMI	0900.7	0901.1	III	G	2	45	95	
			IZMI	0904.7	0904.9	III	G	2	50	160	
			IZMI	0920.7	0927.0	III	GG	2	45	270	
			IZMI	0943.0U	1200.0D	III	N	1	45	90	
			IZMI	1029.4	1029.5	III	B	1	140	245	
			IZMI	1103.5	1107.4	III	GG,FS	2	42	180	
			POTS	1103.6	1106.6	III	G	2	40X	90U	
			SVTO	1129.0	1129.0	III		1	35	77	
			IZMI	1129.1	1129.5	III	G	2	30	170	
			POTS	1129.2	1129.7	III	B	3	40X	90U	
			IZMI	1129.3	1134.9	V		2	30	85	
			IZMI	1132.9	1134.9	III	G	2	45	160	
			POTS	1134.6	1134.9	III	G	2	40X	90U	
			POTS	1156.5	1206.7	III	GG	2	40X	90U	
			SVTO	1203.0	1222.0	III	N	1	35	83	
			POTS	1211.3	1224.3	III	GG,RS	2	40X	250U	
			POTS	1227 E	1400 U	I	S	2	110U	170U	
			SGMR	1316.0	1317.0	III		1	30	80	
			SVTO	1316.0	1318.0	III		1	35	85	
			POTS	1316.5	1317.5	III	G,C	3	40X	170U	
			POTS	1411.0	1411.9	III	G	2	40X	150	
			SGMR	1424.0	1426.0	III		1	30	80	
			SVTO	1424.0	1427.0	III		2	35	85	
			POTS	1424.4	1430.1	III	GG	3	40X	170U	
	2030	2400	CULG	2038.0	2043.0	III	G	1	23	160	
			PALE	2039.0	2040.0	III		1	25	62	

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25		SGMR	2039.0	2040.0	III		1	30	70	
2111	2400	HIRA								
		CULG	2240.0	2301.0	III	N	1	60	170	
26		LEAR	0012.0	0014.0	III		2	30	80	
		PALE	0012.0	0012.0	III		1	25	40	
0000	0745	CULG	0012.0	0017.0	III	G	1	28	180	
0000	0551	HIRA	0012.6	0015.4	III	G	1	50	240	
		CULG	0102.0	0102.0	III	B	1	55	90	
		CULG	0140.0	0142.0	III	G	1	60	180	
		CULG	0301.0	0301.0	III	B	1	60	180	
		CULG	0323.0	0402.0	III	N	1	28	240	
		LEAR	0323.0	0323.0	III		1	30	60	
		HIRA	0323.4	0326.2	III	G	1	50	240	
		HIRA	0355.0	0356.2	III	G	2	50	240	
		LEAR	0355.0	0356.0	III		2	30	80	
		CULG	0543.0	0544.0	III	G	1	28	170	
		LEAR	0543.0	1039.0	III	N	2	30	80	
		HIRA	0543.8	0544.0	III	B	2	50	170	
		CULG	0551.0	0615.0	III	N	1	25	180	
		CULG	0650.0	0745.0D	III	N	1	23	260	
		SVTO	0650.0	0650.0	III		1	35	85	
0700	1200	IZMI	0700.0E	1200.0D	I	S	2	150	270	
0704	1522	ONDR								
		IZMI	0705.5	0706.4	III	GG	2	45	270X	
		IZMI	0707.7	0708.5	III	G	3	40	175	
		SVTO	0708.0	0708.0	III		1	36	80	
0652	1534	POTS	0708.3	0708.4	III	B	1	40X	90U	
		IZMI	0725.2	0727.2	III	G	2	45	160	
0730	1605	BLEN								
		IZMI	0730.0U	1200.0D	III	N	1	45	135	
		IZMI	0740.8	0741.3	III	G	2	45	110	
		IZMI	0752.0	0752.3	III	G	2	45	115	
		LEAR	0800.0	0901.0	CONT		1	30	80	
		SVTO	0807.0	1613.0	CONT		1	35	85	
		IZMI	0826.9	0840.4	III	S	2	45	270X	
		IZMI	0835.5	0841.6	III	GG,DS	2	45	90	
		IZMI	0836.4	0836.8	III	G	2	40	170	
		POTS	0836.4	0853.2	III	GG	2	40X	90U	
		LEAR	0840.0	0850.0	II		2	30	80	ESS 0400
		IZMI	0843.3	0855.1	III	S,DS	2	40	160	
		IZMI	0848.4	0849.3	III	G	2	40	180	
		IZMI	0901.6	0902.3	III	GG	2	45	270X	
		IZMI	0934.6	0935.1	III	G	2	35	170	
		POTS	0934.7	0935.0	III	G,RS	2	40X	90U	
		IZMI	0955.5	0956.1	III	G	2	35	180	
		POTS	0955.7	0956.6	III	G	2	40X	90U	
		IZMI	0956.1	0956.5	V		2	45	70	
		IZMI	1104.7	1107.0	III	G	2	40	95	
		POTS	1105 E	1240 U	I	S	2	200U	400U	
		POTS	1107.0	1107.1	III	B	1	40X	90U	
		IZMI	1113.4	1113.7	III	G	2	55	270	
		POTS	1115.8	1117.1	III	G	2	40X	90U	
		IZMI	1116.2	1116.7	III	GG	2	45	225	
		IZMI	1128.3	1200.0D	III	S	2	25	160	
		POTS	1129.5	1139.5	III	GG	2	40X	90U	
		POTS	1140	1430	III	N	1	40X	90U	
		POTS	1146.5	1422	III	N	2	40X	90U	
		POTS	1228 E	1417 U	I	S,C	2	110U	170U	
		POTS	1244.5	1245.0	III	G	2	40X	170U	
		POTS	1246.8	1247.9	III	G	2	40X	170U	
		POTS	1317.1	1317.2	III	B	2	110U	170U	
		POTS	1326.0	1329.5	III	G	2	40X	170U	
		PALE	1819.0	1819.0	III		1	30	50	
		PALE	1937.0	1937.0	III		2	25	75	
		SGMR	1937.0	1937.0	III		1	30	55	
2030	2400	CULG	2030.0E	2303.0	III	S	2	20	170	
		PALE	2051.0	0418.0	CONT		1	25	65	
		CULG	2336.0	2343.0	III	GG	2	18X	180	

SOLAR RADIO EMISSION
Spectral Observations

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OBSERVATION Start	End		EVENT Start	End	Spectral	Event	Int	FREQUENCY Lower	Upper	Remarks
Day (UT)	(UT)	Sta	(UT)	(UT)	Class	Remarks	(1-3)	(MHz)	(MHz)	
26		LEAR	2336.0	2342.0	III		3	30	80	
		PALE	2336.0	2339.0	III		3	25	70	
		CULG	2355.0	2400.0D	CONT		1	60	360	
		LEAR	2356.0	0420.0	CONT		1	30	80	
27	0000 0745	CULG	0000.0E	0015.0	CONT		1	40	260	
		CULG	0007.0	0007.0	III	B	1	18	90	
		CULG	0032.0	0036.0	III	G	1	20	260	
		LEAR	0032.0	0035.0	III		2	30	80	
		CULG	0103.0	0313.0	III	N	1	23	170	
		CULG	0116.0	0745.0D	I	S	1	60	160	
		CULG	0205.0	0207.0	III	G	3	20	250	
		LEAR	0205.0	0226.0	III	N	3	30	80	
		PALE	0205.0	0206.0	III		2	25	75	
		LEAR	0306.0	0313.0	III		2	30	80	
		CULG	0326.0	0330.0	III	G	3	18X	290	
		LEAR	0326.0	0332.0	III		3	30	80	
		PALE	0326.0	0328.0	III		2	30	75	
		CULG	0615.0	0648.0	III	N	1	23	220	
		LEAR	0634.0	0647.0	III	N	2	30	80	
		SVTO	0646.0	0646.0	III		1	45	77	
	0652 1532	POTS	0652 E	1504	I	S	2	40X	400U	
	0702 1200	IZMI	0702.0E	1200.0D	I	S	2	85	270X	
		IZMI	0713.9	0716.5	III	GG	2	60	270X	
		IZMI	0739.5	0744.6	III	GG,HARM	2	45	270X	
		CULG	0740.0	0743.0	III	G	1	25	150	
		LEAR	0740.0	0743.0	III		1	30	80	
		IZMI	0746.0	0747.1	III	GG	2	45	215	
		IZMI	0749.0U	0845.0	III	N	1	45	95	
		LEAR	0807.0	1039.0	III	N	2	30	80	
		IZMI	0815.8	0822.9	III	S	2	45	260	
		POTS	0816.4	0816.5	III	B	1	40X	90U	
		IZMI	0829.0	0831.7	III	G,C	3	25X	270X	
		LEAR	0829.0	0832.0	III		3	30	80	
		SVTO	0829.0	0832.0	III		2	35	85	
		POTS	0829.1	0830.8	III	G	3	40X	170U	
	0702 1526	ONDR	0829.3	0830.1	DCIM	GG	2	800X	2000X	
		POTS	0830.2	0831.8	V		3	40X	70	
		LEAR	0844.0	1002.0	CONT		1	30	80	
		IZMI	0845.0U	1118.0U	III	S	2	40	170	
		SVTO	0845.0	1354.0	CONT		1	35	85	
		ONDR	0852.3	0853.1	DCIM	G,SP	1	875	1235	
		POTS	0907.8	0909.1	III	G	2	40X	90U	
		IZMI	0907.9	0912.3	III	GG	2	30	180	
		POTS	0911	1502	III	N	1	40X	90U	
		ONDR	0937.0	0937.2	DCIM	G,SP	1	805	1130	
		IZMI	0956.5	0959.7	III	GG	2	25X	270X	
		SVTO	0958.0	0959.0	III		1	35	85	
		POTS	0958.8	0959.7	III	G	3	40X	90U	
		POTS	1003.2	1003.3	III	B	2	50	75	
		ONDR	1006.0	1009.3	DCIM	G,SP	1	805	1230	
		POTS	1050 E	1500	I	S	2	110U	400U	
		SVTO	1138.0	1139.0	III		1	35	85	
		IZMI	1138.4	1139.3	III	G,C	2	35	270X	
		POTS	1138.5	1139.4	III	G	3	40X	325U	
		IZMI	1142.6	1143.0	UNCLF		2	125	220	
		POTS	1150.6	1151.1	III	G	2	40X	90U	
		POTS	1216.7	1217.5	III	G	2	40X	170U	
		POTS	1221.1	1221.4	III	B	2	40X	90U	
		POTS	1240.0	1240.2	III	B	2	80	160	
		POTS	1250.0	1250.3	III	G	2	40X	90U	
		POTS	1300.6	1300.7	III	B	1	110U	160	
		POTS	1306.6	1307.7	III	G	3	40X	170U	
		SGMR	1421.0	1448.0	III	N	2	30	80	
		SVTO	1421.0	1426.0	III		2	35	85	
		POTS	1421.7	1425.1	III	GG	3	40X	170U	
		ONDR	1424.3	1425.3	DCIM	G	1	800X	1805	
	0730 1605	BLEN	1424.7	1425.4	III	G	2	1000X	1650	
		POTS	1425.0	1426.0	V		3	40X	65	

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Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
27			POTS	1433.0	1433.4	III	G	2	40X	160	
			SVTO	1433.0	1433.0	III		1	65	76	
			SVTO	1433.0	1452.0	CONT		1	35	78	
			POTS	1447.1	1450.5	III	GG	3	40X	90U	
			SGMR	1911.0	1911.0	III		1	30	60	
	2030	2400	CULG	2256.0	2326.0	III	N	1	23	260	
			LEAR	2259.0	2300.0	III		1	35	70	
			LEAR	2312.0	2326.0	V		1	30	80	
28			LEAR	0252.0	0253.0	III		2	30	65	
	0000	0745	CULG	0252.0	0253.0	III	G	1	35	240	
	0039	0833	HIRA	0252.4	0252.8	III	B	1	40	260	
			CULG	0359.0	0401.0	III	G	2	20	230	
			LEAR	0359.0	0446.0	III	N	3	30	80	
			HIRA	0359.2	0359.4	III	B	1	40	220	
			CULG	0408.0	0447.0	III	N	1	28	230	
			CULG	0436.0	0438.0	III	G	2	18	230	
			HIRA	0436.2	0439.6	III	G	3	25X	600	
			CULG	0439.0	0440.0	III	G	3	18	260	
	0659	1527	ONDR								
	0700	1200	IZMI	0700.0E	1200.0D	I	S	2	120	270X	
			LEAR	0725.0	0726.0	III		1	30	51	
			IZMI	0725.5	0725.6	III	B	1	60	110	
			CULG	0726.0	0726.0	III	B	1	25	60	
	0730	1605	BLEN								
			LEAR	0756.0	0756.0	III		1	30	80	
			SVTO	0756.0	0756.0	III		1	36U	45U	
			IZMI	0756.5	0756.7	III	B	2	45	160	
			LEAR	0807.0	0807.0	III		1	30	75	
			LEAR	0845.0	0846.0	III		2	30	80	
			SVTO	0845.0	0846.0	III		1	36	77	
	0652	1534	POTS	0845.8	0846.5	III	G	1	40X	90U	
			LEAR	0922.0	0931.0	III		3	30	80	
			SVTO	0922.0	0931.0	III		3	35	85	
			IZMI	0922.5	0922.9	III	G	3	25X	270X	
			POTS	0922.6	0922.9	III	B	3	40X	275U	
			IZMI	0922.8	0923.8	V		2	25X	170	
			POTS	0922.9	0923.8	V		3	40X	75	
			IZMI	0925.3	0932.4	III	GG	2	25	215	
			POTS	0925.9	0928.7	III	G	2	40X	120	
			POTS	0929	1502	III	N	2	40X	90U	
			IZMI	0946.0	0946.2	III	B	2	45	95	
			IZMI	0947.6	0948.0	III	G	2	45	270	
			IZMI	1022.6	1045.2	II	HARM	2	50	250	
			POTS	1023.5	1024.8	UNCLF		2	40X	90U	
			IZMI	1023.6	1023.9	III	G	2	45	175	
			POTS	1026.8	1030.8	II	UE,H	3	40X	90U	
			SVTO	1027.0	1034.0	II		2	66	85	ESS 1200
			IZMI	1033.7	1034.5	III	G	2	30	145	
			SVTO	1034.0	1034.0	III		1	35	45	
			POTS	1034.1	1034.6	III	G	2	40X	90U	
			POTS	1050	1415	I	S	2	40X	400U	
			IZMI	1050.8	1052.8	III	GG	2	40	245	
			IZMI	1055.7	1056.0	III	G,FS	2	45	170	
			IZMI	1058.4	1100.2	III	GG	2	45	180	
			IZMI	1102.6	1104.4	III	G	2	45	100	
			IZMI	1121.6	1121.8	III	G	2	40	270X	
			IZMI	1131.2	1131.3	III	B,HARM	2	45	270X	
			IZMI	1152.0	1154.3	III	GG	2	25X	245	
			SGMR	1153.0	1154.0	III		1	30	55	
			SVTO	1153.0	1154.0	III		2	35	83	
			POTS	1153.5	1154.4	III	G	3	40X	160	
			SVTO	1249.0	1450.0	CONT		1	35	80	
			SGMR	1300.0	1300.0	III		1	30	60	
			POTS	1357.6	1357.7	III	B	2	110U	170U	
			POTS	1409.5	1409.7	III	G	2	40X	170U	
			POTS	1426.9	1432.4	III	GG	2	40X	170U	
			SGMR	1430.0	1507.0	CONT		1	30	60	
			POTS	1437.4	1443.8	III	GG	2	40X	160	

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Spectral Observations

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OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	EVENT Spectral Class	EVENT Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
28		POTS	1506.0	1506.9	III	G	2	40X	170U	
		SVTO	1506.0	1506.0	III		1	38	80	
		PALE	1748.0	1750.0	III		1	25	65	
		PALE	1834.0	1838.0	III		1	25	75	
		SGMR	1834.0	1838.0	V		2	30	80	
		PALE	2018.0	2022.0	III		2	25	75	
		SGMR	2018.0	2022.0	III		2	30	80	
		SGMR	2118.0	2122.0	III		2	30	80	
2030	2400	CULG	2125.0	2126.0	III	G	1	30	95	
		PALE	2214.0	2215.0	III		1	25	45	
		CULG	2215.0	2227.0	III	GG	2	20	180	
		PALE	2219.0	2226.0	III		1	25	75	
2106	2400	HIRA	2220.8	2221.6	III	G	2	25X	260	
		CULG	2354.0	2359.0	III	G	1	20	130	
		LEAR	2358.0	2359.0	III		2	30	80	
		HIRA	2358.4	2358.6	III	B	1	50	160	
29		LEAR	0027.0	0035.0	III		1	30	80	
0000	0745	CULG	0027.0	0028.0	III	G	1	30	90	
		CULG	0035.0	0035.0	III	B	1	30	90	
		CULG	0113.0	0113.0	III	B	1	28	90	
		LEAR	0113.0	0136.0	III	N	2	30	80	
		LEAR	0127.0	0550.0	CONT		2	30	80	
		CULG	0209.0	0446.0	III	N	1	23	160	
0700	1200	IZMI	0700.0E	1200.0D	I	S	1	135	270X	
		IZMI	0728.8	0728.9	III	G,HARM	2	45	150	
0730	1605	BLEN								
		IZMI	0744.3	0747.8	III	G	1	45	95	
		LEAR	0752.0	0829.0	III	N	2	30	80	
		IZMI	0752.3	0753.1	III	GG,FS	2	40	270	
0000	0834	HIRA	0752.4	0755.2	III	G	1	50	300	
0630	1551	POTS	0754	1500	III	N	1	40X	90U	
		SVTO	0754.0	0755.0	III		1	38	71	
		IZMI	0754.6	0755.3	III	GG,FS	2	40	270X	
		IZMI	0813.9	0814.0	III	B	2	85	135	
		IZMI	0821.0U	1200.0U	III	N	1	45	95	
		SVTO	0826.0	0828.0	III		1	35	85	
		IZMI	0826.9	0828.3	III	G	2	30	260	
		POTS	0827.1	0827.8	III	G	2	40X	90U	
0657	1528	ONDR	0837.0	0837.2	DCIM	G	1	2000X	4255	
		IZMI	0913.7	0932.2	III	G	1	45	145	
		SVTO	0931.0	0950.0	III	N	1	35	85	
		LEAR	0942.0	0944.0	III		2	30	80	
		IZMI	0942.9	0944.8	III	GG	2	35	260	
		POTS	0943.2	0944.9	III	G	2	40X	90U	
		POTS	1047.5	1047.8	III	G	2	40X	90U	
		IZMI	1050.7	1051.8	III	GG	2	35	215	
		POTS	1050.8	1055.8	III	G	2	40X	90U	
		SVTO	1051.0	1435.0	CONT		1	35	80	
		IZMI	1055.3	1059.9	III	GG	2	30	170	
		POTS	1059.1	1100.0	III	G	2	40X	90U	
		POTS	1102 E	1401 U	I	S	2	110U	375U	
		IZMI	1107.6	1110.6	III	GG	2	35	160	
		POTS	1107.6	1107.7	III	B	2	40X	70	
		POTS	1110.5	1110.6	III	G	2	40X	70	
		IZMI	1112.8	1119.6	III	GG,RS	2	30	110	
		POTS	1113.2	1113.7	III	G	2	40X	90U	
		IZMI	1114.9	1117.3	I	GG,DC	2	60	70	
		POTS	1119.3	1119.7	III	G	2	40X	90U	
		IZMI	1124.6	1124.7	III	B	2	50	160	
		IZMI	1126.9	1127.0	III	G,RS	2	35	100	
		POTS	1126.9	1127.1	III	B	2	40X	90U	
		IZMI	1131.6	1131.8	III	G,RS	2	35	65	
		POTS	1131.6	1131.8	III	G,P	2	40X	90U	
		POTS	1135.7	1135.9	III	B	2	40X	70	
		IZMI	1143.3	1143.7	III	G	2	40	90	
		IZMI	1147.6	1148.8	III	G,C	2	30	100	
		POTS	1148.6	1236.1	III	GG	2	40X	90U	
		IZMI	1151.8	1155.1	III	GG	2	30	120	

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

FEBRUARY 2000

OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	EVENT Spectral Class	EVENT Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
29		IZMI	1158.6	1200.0D	III	GG	2	40	95	
		SGMR	1303.0	1846.0	III	N	1	30	80	
		POTS	1303.1	1305.5	III	G	2	40X	60	
		POTS	1307.3	1307.4	III	B	2	110U	170U	
		POTS	1318.6	1318.7	III	B	2	110U	170U	
		POTS	1319.8	1323.1	III	GG,RS	3	40X	170U	
		POTS	1332.5	1333.0	III	G	2	40X	70U	
		POTS	1337.7	1339.4	III	GG,U	3	40X	170U	
		POTS	1340.2	1340.3	III	B	2	110U	145	
		SVTO	1454.0	1458.0	III		1	36	83	
		PALE	1845.0	1846.0	III		1	25	75	
2105	2400	HIRA								
2125	2400	CULG	2315.0	2345.0	III	N	1	30	80	

Event Remarks:

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

Frequency qualifiers:

X = Extends beyond instrument range
U = Uncertain frequency

Remarks:

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

Stations Reporting:

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

NOTE: The sensitivity of the Potsdam receivers in the 40-90 MHz and 200-400 MHz was reduced during the entire month.

SOLAR RADIO NOISE STORM AT 164 MHZ

FROM NANÇAY RADIOHELIOGRAPH

FEBRUARY 2000

	HELIOGRAPHICS POSITIONS MEAN VALUES[1]		IMP[2]	OBSERVING TIME[3]	
DAY	E-W	S-N		START(UT)	END(UT)
03/02/00	-1.47	-0.09	I	11H30	12H50
07/02/00*	-0.54	+0.09	III	8H35 E	8H35 E
09/02/00*	+1.05	+0.28	IV	8H35 E	15H35 D
10/02/00	+1.40	+0.03	I	8H35 E	15H35 D
11/02/00	+1.43	+0.36	II	8H24 E	15H35 D
13/02/00	+0.23	-0.29	I	8H35 E	15H35 D
18/02/00	+0.57	-0.42	III	8H35 E	15H35 D
19/02/00*	+1.15	-0.37	II	8H44 E	15H35 D
21/02/00	-0.51	+0.48	I	8H39 E	15H34 D
21/02/00	-0.68	+0.43	I	8H39 E	15H34 D
22/02/00*	-0.31	+0.39	II	8H35 E	15H34 D
23/02/00*	-0.02	+0.25	III	8H34 E	15H34 D
23/02/00	+1.35	-0.70	II	12H00	14H00
24/02/00*	+0.25	+0.37	II	8H36 E	15H34 D
25/02/00*	+0.42	+0.33	II	8H34 E	15H34 D
25/02/00*	*****	*****	*	8H34 E	15H34 D
27/02/00*	-0.73	-0.25	III	8H34 E	15H34 D
27/02/00*	-0.76	+0.76	I	11H30	15H34 D
28/02/00*	-0.59	+0.00	II	8H33 E	15H33 D
28/02/00*	+0.37	-0.28	II	8H33 E	15H33 D
29/02/00*	-0.48	+0.09	II	8H33 E	15H33 D

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

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

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

SOLAR RADIO NOISE STORM AT 327 MHZ
FROM NANÇAY RADIOHELIOGRAPH

FEBRUARY 2000

	HELIOGRAPHICS POSITIONS MEAN VALUES[1]		IMP[2]	OBSERVING TIME[3]	
DAY	E-W	S-N		START(UT)	END(UT)
04/02/00	-1.07	+0.06	I	8H35 E	15H35 D
05/02/00	-0.96	-0.05	I	10H50	14H25
07/02/00*	-0.45	+0.20	I	8H35 E	15H35 D
07/02/00*	+0.64	+0.31	I	8H35 E	15H35 D
08/02/00	+0.88	+0.29	I	8H35 E	15H35 D
09/02/00*	+1.15	+0.36	II	8H35 E	15H35 D
10/02/00	+1.35	+0.16	I	8H35 E	15H35 D
11/02/00	+0.43	+0.50	I	13H27	15H35 D
11/02/00	+1.36	+0.26	I	8H24 E	15H35 D
13/02/00	+0.25	-0.25	I	8H35 E	15H35 D
18/02/00	+0.65	-0.37	III	8H35 E	15H35 D
19/02/00*	+1.04	-0.34	I	9H50	12H30
20/02/00	+1.02	-0.25	I	11H50	15H35 D
20/02/00	+1.18	-0.11	I	9H25	15H35 D
21/02/00	-0.39	+0.42	I	8H39 E	15H34 D
22/02/00*	-0.34	+0.26	I	8H35 E	15H34 D
22/02/00*	-0.19	+0.36	I	8H35 E	15H34 D
22/02/00*	+1.27	-0.37	I	8H35 E	15H34 D
23/02/00*	-0.88	-0.22	I	8H34 E	15H34 D
23/02/00*	-0.05	+0.31	I	8H34 E	15H34 D
24/02/00*	-0.47	-0.31	II	8H36 E	13H30
24/02/00*	+0.22	+0.42	III	8H36 E	15H34 D
25/02/00*	-1.10	+0.50	I	8H34 E	15H34 D
25/02/00*	-0.59	-0.34	I	8H34 E	15H34 D
25/02/00*	-0.26	-0.33	I	8H34 E	15H34 D
25/02/00*	+0.42	+0.42	II	8H34 E	15H34 D
27/02/00*	-0.74	+0.68	II	8H34 E	15H34 D
27/02/00*	-0.70	-0.33	II	8H34 E	15H34 D
27/02/00*	+0.20	-0.39	II	8H34 E	15H34 D
27/02/00*	+0.78	+0.45	II	8H34 E	15H34 D
28/02/00*	-0.53	+0.03	II	8H33 E	15H33 D
28/02/00*	+0.37	-0.28	III	8H33 E	15H33 D
29/02/00*	-0.33	-0.05	I	8H33 E	15H33 D
29/02/00*	+0.60	-0.40	I	13H01	15H33 D
29/02/00*	+0.65	+0.23	I	8H33 E	15H33 D

6,12,26 FEBRUARY 2000: NO DATA

OTHERS DAYS: NO DETECTABLE NOISE STORM

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

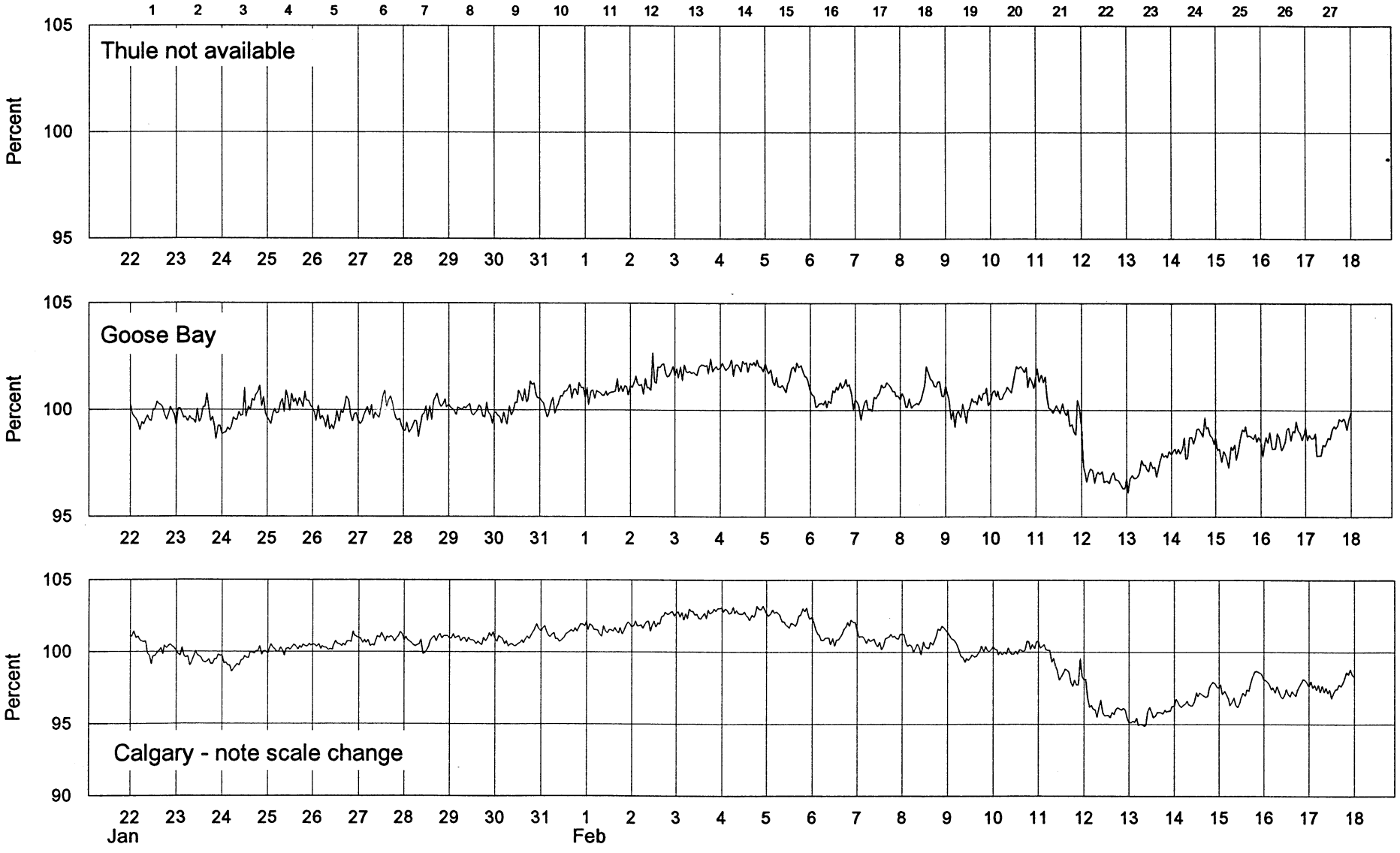
**** For this day, sporadic activity above the east limb spread between ± 0.5 Rs SN

COSMIC RAY INDICES
(Neutron Monitor)
February 2000

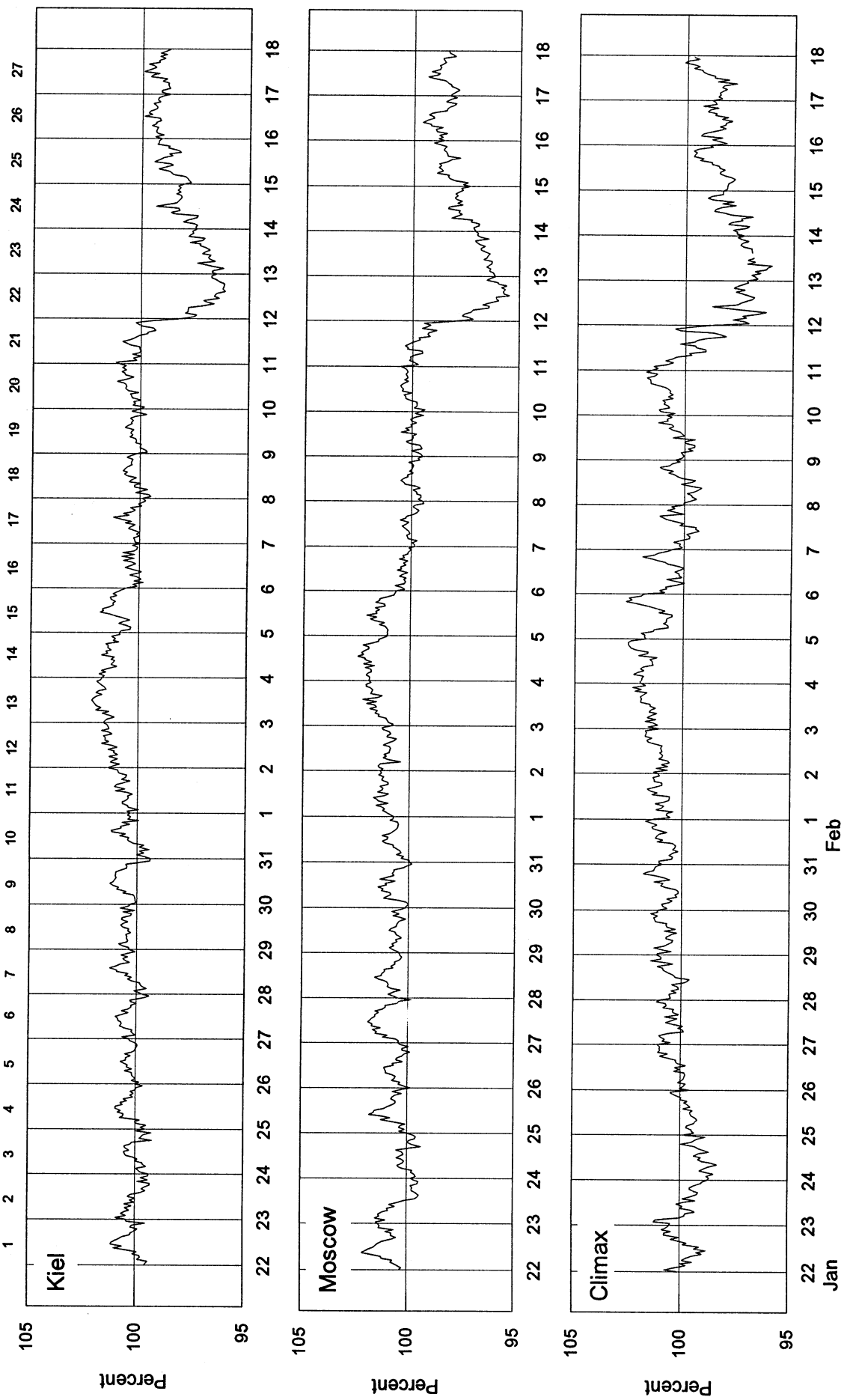
Day	THULE Average (cts/h)/100	GOOSE BAY Average (cts/h)/100	CALGARY Average (cts/h)/300	KIEL Average (cts/h)/100	MOSCOW Average (cts/h)/64	CLIMAX Average (cts/h)/100	BEIJING Average (cts/h)/256	HALEAKALA Average (cts/h)/1000
1	No data	6713.0	3668.3	5789.0	8635.7	3878.7	1968.0	3508.5
2	at time of	6757.2	3687.5	5828.8	8622.2	3885.0	1968.5	3521.1
3	publication	6781.8	3707.2	5854.6	8665.5	3903.0	1973.5	3530.6
4		6794.2	3710.8	5831.9	8696.8	3914.5	1969.9	3528.8
5		6762.6	3697.7	5814.3	8646.0	3894.3	1969.9	3531.1
6		6703.2	3659.7	5771.5	8561.0	3868.6	1961.5	3516.3
7		6696.6	3642.8	5771.9	8534.6	3847.7	1957.6	3505.2
8		6710.6	3638.7	5770.9	8525.7	3842.2	1959.9	3506.1
9		6673.2	3615.7	5767.4	8523.6	3849.2	1960.8	3515.3
10		6737.2	3616.8	5783.5	8545.4	3881.0	1968.3	3532.3
11		6677.0	3575.8	5764.9	8510.0	3837.4	1957.5	3515.4
12		6452.9	3471.3	5575.9	8230.8	3740.2	1934.1	3483.4
13		6475.2	3449.7	5586.0	8240.2	3722.2	1938.0	3479.8
14		6560.4	3497.7	5647.4	8335.0	3762.4	1950.1	3509.3
15		6549.0	3515.8	5676.9	8394.3	3788.4	1959.3	3513.5
16		6568.1	3520.0	5717.7	8425.8	3787.4	1953.7	3514.9
17		6581.4	3528.0	5707.5	8407.2	3798.2	1946.6(22)	3499.5
18		6623.9	3533.8	5716.2	8431.1	3803.1	1940.8	3502.6
19		6620.0	3533.3	5725.3	8427.7	3785.5	1943.4	3493.5
20		6657.2	3541.7	5735.2	8459.4	3797.7	1945.8	3501.4
21		6567.7	3503.5	5653.9	8353.5	3759.0	1935.7	3496.4
22		6578.3	3517.2	5659.7	8376.0	3772.4	1933.8	3492.8
23		6583.2	3565.3	5687.8	8434.0	3783.3	1943.3	3507.6
24		6641.2	3603.5	5730.4	8529.1	3844.2	1953.0	3516.1
25		6679.0	3623.7	5756.0	8554.9	3868.1	1963.1	3523.0
26		6647.0	3620.2	5748.2	8569.8	3838.4	1949.9	3509.9
27		6583.5	3611.0	5712.4	8532.3	3813.0	1950.9	3506.2
28		6547.4	3575.3	5685.5	8430.7	3796.5	1945.9	3496.4
29		6513.2	3550.0	5658.3	8362.9	3757.5	1930.5	3479.3
30								
31								
Mean		6635.7	3585.6	5728.6	8481.4	3821.6	1952.9	3508.1

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.

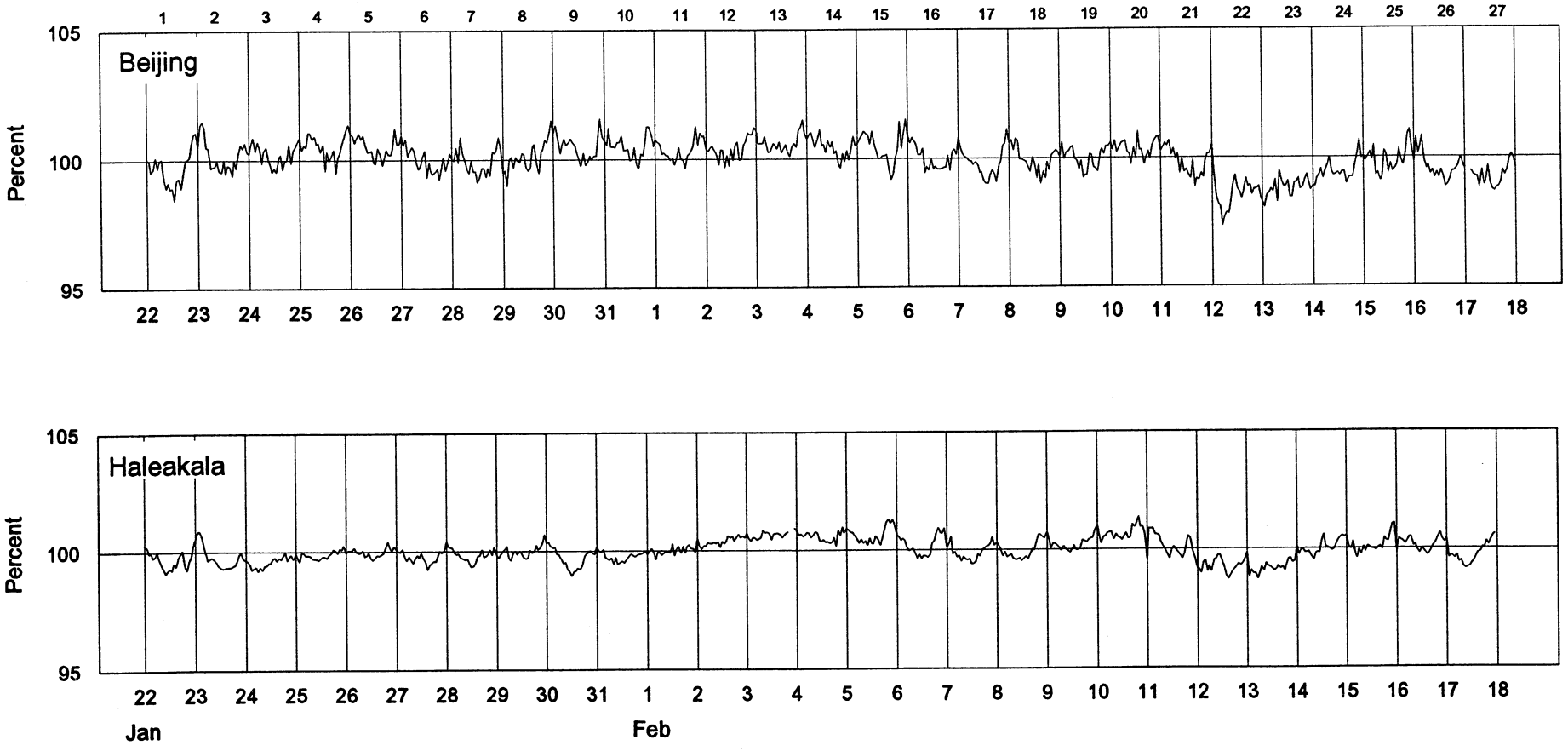
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2273 - Beginning 22 Jan 2000



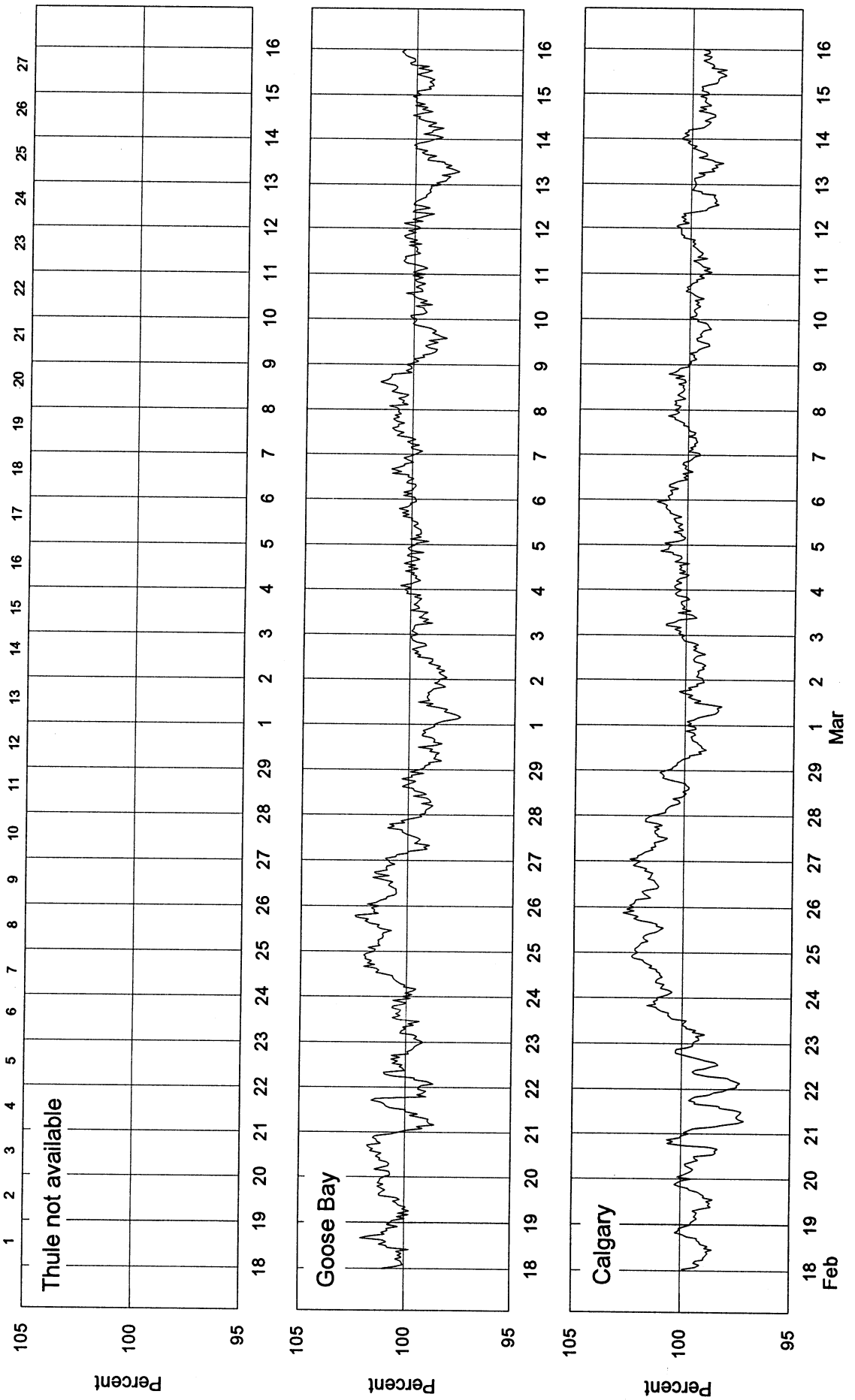
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2273 - Beginning 22 Jan 2000



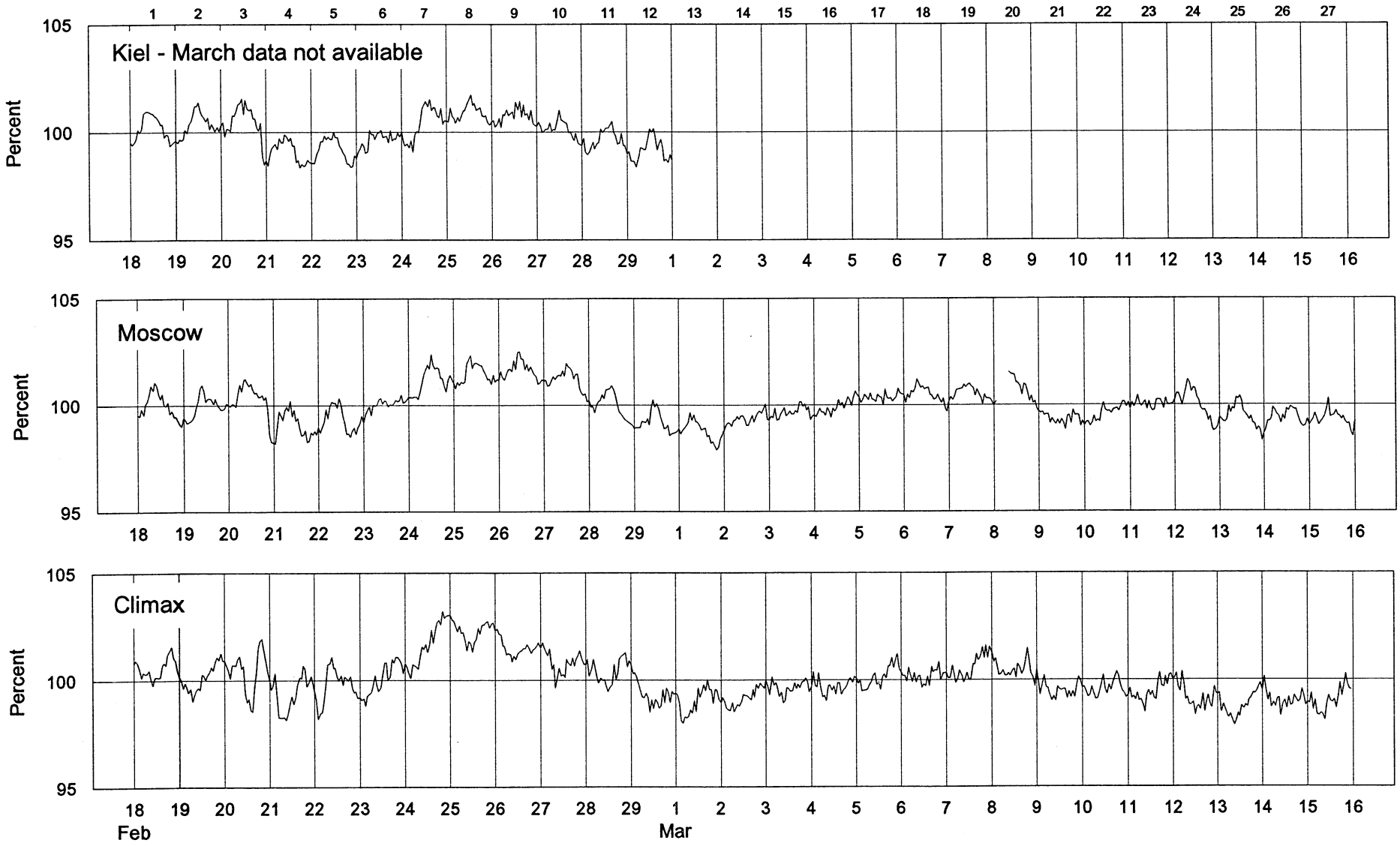
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2273 - Beginning 22 Jan 2000



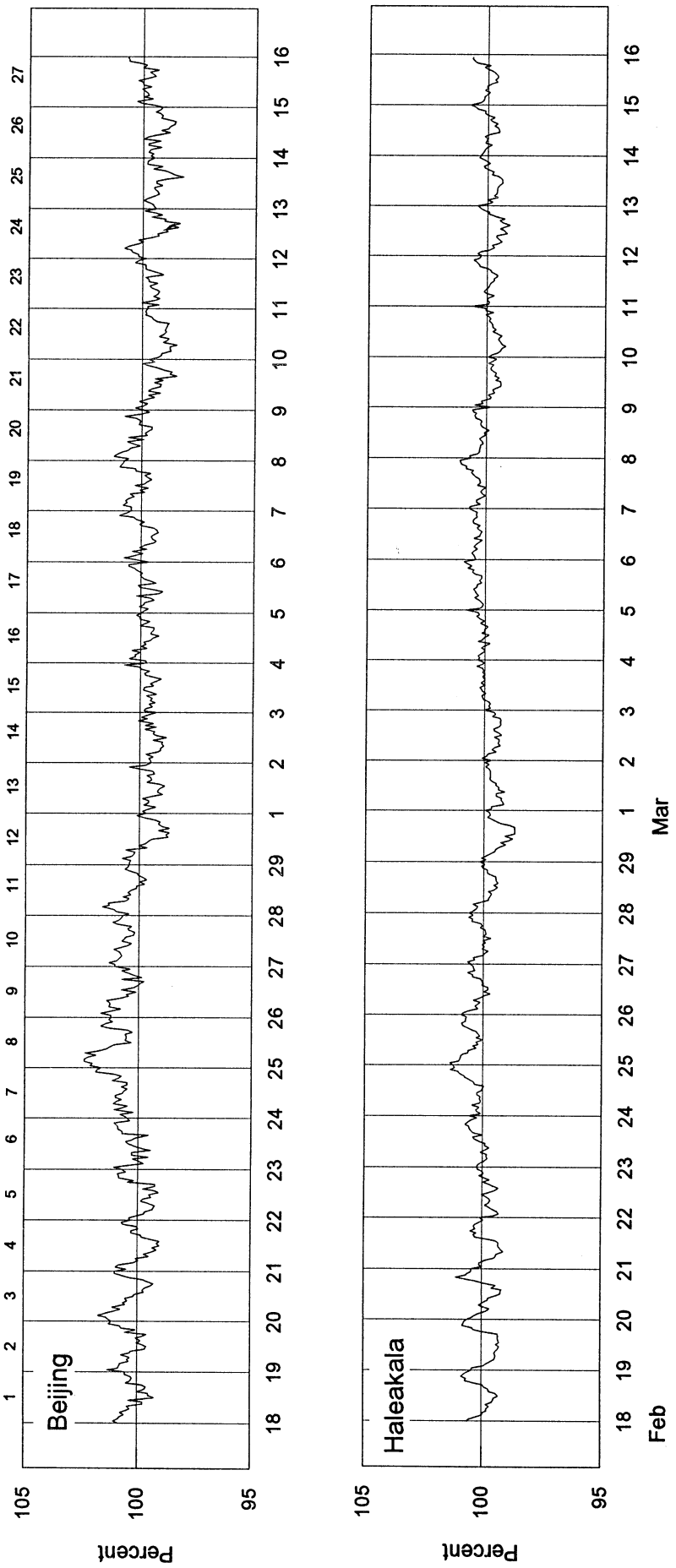
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2274 - Beginning 18 Feb 2000



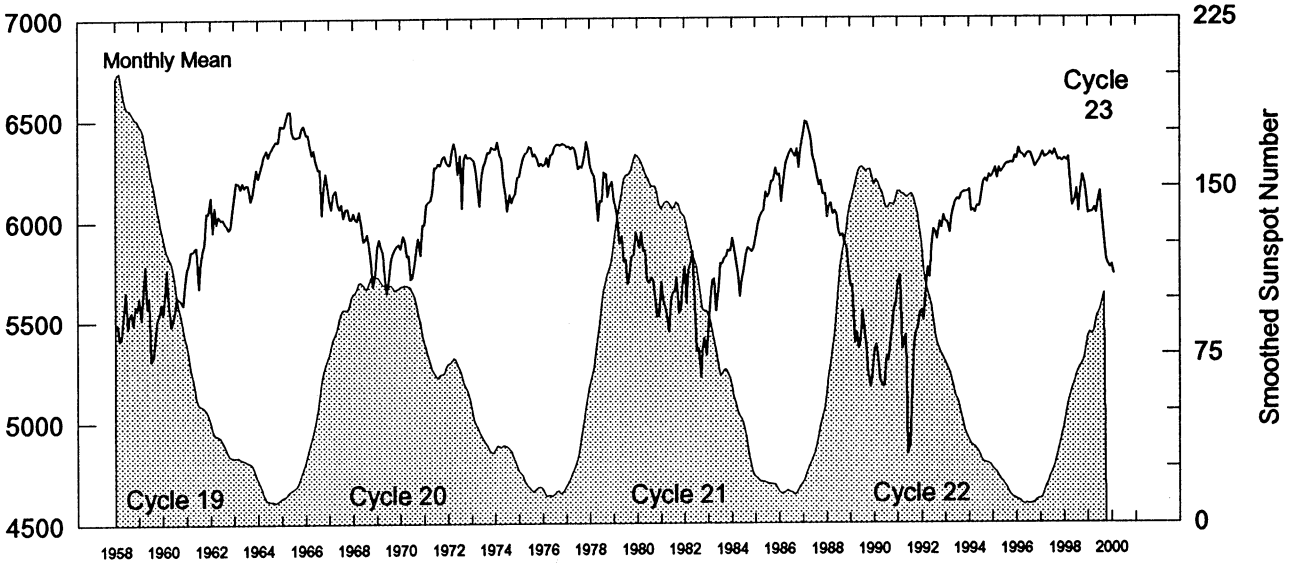
COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2274 - Beginning 18 Feb 2000



COSMIC RAY INDICES
(Neutron Monitor)
Bartels Rotation 2274 - Beginning 18 Feb 2000



Kiel Neutron Monitor Pressure-Corrected Values
Jan 1958 - Feb 2000



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1958	5481	5488	5409	5417	5523	5651	5466	5538	5553	5485	5584	5561	5513
1959	5623	5515	5659	5783	5569	5625	5307	5328	5420	5518	5536	5593	5540
1960	5539	5628	5764	5596	5480	5509	5557	5628	5620	5607	5586	5692	5601
1961	5766	5793	5853	5856	5872	5874	5672	5804	5859	5898	6046	6041	5861
1962	6122	5949	6072	5989	6030	6010	6013	5991	5982	5963	5971	6052	6012
1963	6125	6197	6191	6163	6194	6168	6185	6182	6103	6133	6197	6260	6175
1964	6215	6253	6287	6331	6355	6321	6347	6366	6383	6399	6393	6475	6344
1965	6474	6469	6506	6542	6545	6451	6424	6420	6423	6424	6467	6475	6468
1966	6433	6432	6375	6330	6353	6300	6258	6258	6033	6168	6236	6172	6279
1967	6101	6061	6139	6155	6088	6061	6086	6016	6064	6063	6014	6009	6071
1968	6041	6011	6001	6048	5997	5901	5910	5937	5878	5805	5673	5739	5912
1969	5876	5909	5872	5845	5686	5640	5700	5812	5843	5864	5879	5887	5818
1970	5863	5928	5906	5830	5831	5716	5719	5803	5885	5915	5832	5985	5851
1971	5985	6081	6094	6103	6151	6268	6265	6286	6275	6314	6322	6288	6203
1972	6281	6278	6351	6387	6344	6232	6328	6065	6306	6334	6313	6318	6295
1973	6309	6298	6250	6155	6074	6220	6271	6296	6341	6340	6365	6360	6273
1974	6353	6391	6331	6308	6201	6139	6047	6132	6090	6113	6139	6215	6205
1975	6217	6267	6308	6334	6341	6370	6363	6320	6334	6313	6272	6286	6310
1976	6275	6281	6314	6269	6325	6331	6370	6380	6379	6375	6383	6380	6339
1977	6366	6371	6355	6366	6357	6322	6254	6272	6263	6317	6391	6355	6332
1978	6271	6242	6215	6113	5998	6101	6095	6241	6232	6117	6167	6193	6165
1979	6104	6063	6006	5883	5923	5794	5806	5682	5723	5820	5827	5942	5881
1980	5905	5862	5942	5850	5854	5702	5690	5717	5704	5611	5522	5528	5741
1981	5697	5600	5569	5517	5447	5600	5642	5650	5717	5539	5564	5702	5604
1982	5772	5586	5755	5799	5848	5582	5347	5362	5217	5349	5414	5329	5530
1983	5481	5606	5702	5711	5549	5659	5787	5785	5814	5820	5852	5849	5718
1984	5911	5880	5799	5740	5622	5706	5753	5837	5867	5856	5844	5864	5807
1985	5911	5986	6016	6038	6049	6142	6114	6135	6193	6192	6260	6220	6105
1986	6229	6093	6176	6280	6308	6336	6350	6331	6315	6356	6259	6359	6283
1987	6429	6489	6484	6443	6410	6319	6273	6217	6171	6198	6131	6131	6308
1988	6013	6064	6085	6030	6047	6033	5945	5922	5931	5880	5872	5761	5965
1989	5673	5678	5385	5441	5360	5407	5552	5460	5378	5228	5167	5241	5414
1990	5348	5381	5313	5197	5177	5173	5324	5297	5382	5471	5563	5584	5351
1991	5696	5726	5355	5405	5431	4841	4882	5162	5390	5443	5466	5540	5361
1992	5553	5500	5624	5766	5713	5869	5956	5942	5905	5994	5960	6024	5817
1993	5996	5992	5937	6026	6061	6094	6108	6099	6129	6137	6142	6141	6072
1994	6150	6042	6052	6067	6070	6068	6129	6189	6203	6183	6226	6209	6132
1995	6225	6260	6205	6260	6234	6250	6267	6279	6281	6285	6279	6319	6262
1996	6301	6354	6330	6324	6306	6325	6332	6331	6303	6262	6277	6294	6312
1997	6313	6337	6313	6314	6324	6336	6317	6347	6319	6295	6301	6289	6317
1998	6305	6293	6312	6177	6069	6101	6154	6042	6149	6220	6190	6124	6178
1999	6034	6040	6041	6062	6032	6100	6140	6023	5898	5805	5780	5765	5977
2000	5778	5729											5754

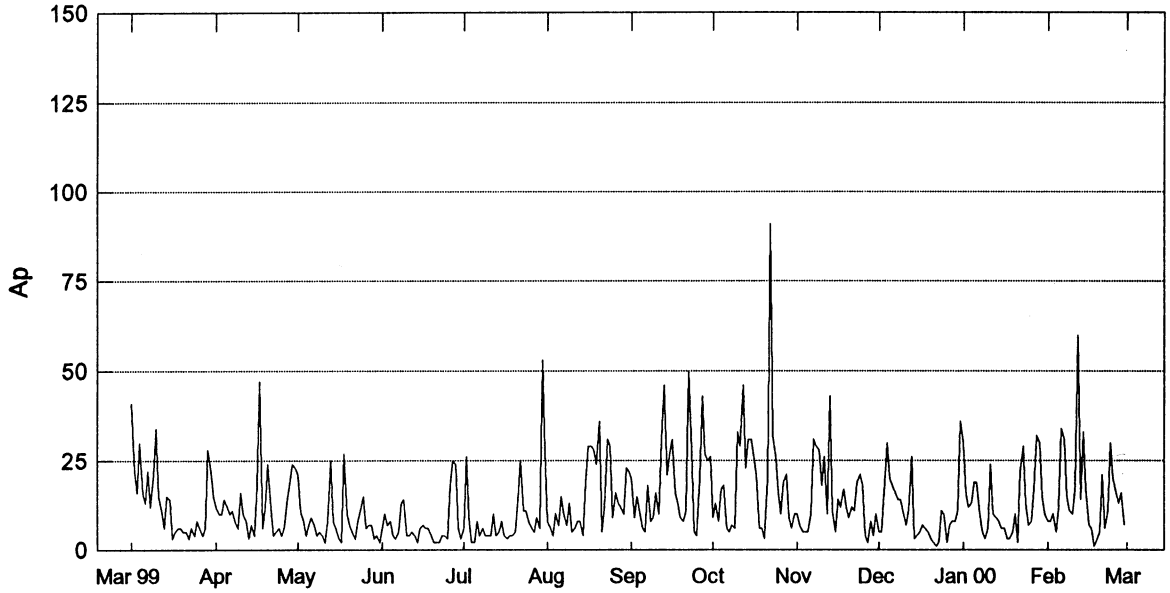
Multiply table entries by 100 to obtain hourly counting rate. Kiel, Germany: N54, E10, Alt= 54 m, Cutoff Rigidity= 2.32GV.

Geomagnetic Activity Indices
February 2000

Day		Kp Three-Hourly Indices 1 2 3 4	5 6 7 8	Sum	Ap	Cp	Km Three-Hourly Indices 1 2 3 4	5 6 7 8	aa Provisional Am	N	S	M	
1	Q10A	2+ 1+ 2 1-	3 2 2+ 3-	16+	8	0.5	2o 1+ 2- 1o	3o 2o 2o 2+	15	17	14	11	20	
2	Q9A	2+ 1+ 1- 2-	3- 3+ 2 2	16	8	0.5	2+ 1o 1- 2-	2+ 3o 2+ 2o	16	21	13	11	23	
3		1 1 2+ 1+	3 3- 3- 4-	18-	10	0.6	2- 1+ 2+ 1+	3o 3- 3- 3o	20	27	20	13	35	
4	Q3	2 1+ 2 1-	1 1 1- 2	11-	5	0.2	2- 1+ 2- 0+	1+ 1+ 1o 2o	9	11	10	11	10	C
5		1 0+ 0+ 1	1 3 4+ 4+	15+	12	0.7	1+ 1- 0+ 1o	1o 3+ 5- 4+	26	28	29	7	50	
6	D2	5- 5 4- 4+	4 3+ 5- 5	35-	34	1.3	4- 4+ 3+ 4-	4- 4- 4+ 5-	55	62	58	61	60	
7	D4	5+ 4- 4- 4	5- 4 4 4	33+	31	1.3	4+ 3o 3o 4-	4o 4- 4o 4-	47	57	39	48	49	
8		4- 3+ 2- 3-	3 3 4- 3-	24-	15	0.9	3+ 3o 2- 3-	3- 3o 4- 3-	28	38	26	31	33	
9		2- 3 3- 1+	3 4- 2 2-	19	11	0.6	1+ 2+ 2+ 1+	3o 4- 2o 2-	20	25	25	18	32	
10		3- 2+ 3 2-	2 2+ 2 3+	19+	10	0.6	2+ 2- 3- 1+	2- 2o 2o 3o	16	22	17	19	20	
11		3 4+ 3- 3-	2+ 3 3- 4+	25	17	0.9	3- 4o 2+ 3o	3- 3- 3o 4+	33	43	37	35	45	
12	D1	6 6 6 7-	6- 4+ 3+ 3	41	60	1.7	5o 5- 5+ 6+	6- 4+ 4- 2+	93	73	110	120	63	
13		3+ 2 3- 4-	3+ 3+ 2+ 3-	23+	14	0.8	3o 2- 3- 3o	3+ 3+ 3- 3-	27	25	30	25	30	
14	D3	4- 4+ 4 4+	5+ 5- 4 4	34+	33	1.3	3o 4- 4- 4o	5o 4+ 4- 4-	54	62	49	40	72	
15		4 4 2+ 2-	2+ 2 4- 4+	24+	17	0.9	4- 3o 2o 1+	2- 2o 3+ 4o	26	41	26	28	38	
16	Q8A	3- 2+ 1 1-	2 2+ 2 1+	14+	7	0.4	2+ 2+ 1o 1-	2- 2- 2o 1+	12	16	14	11	19	
17	Q4	1- 1- 1 3-	2+ 2- 2- 1-	11+	6	0.3	1- 0+ 1o 2+	2+ 2o 2o 1o	11	12	13	9	16	CK
18	Q1	0 0+ 0+ 0+	0+ 0 0+ 0	2-	1	0.0	0o 0+ 0+ 0+	0+ 0+ 0+ 0+	2	4	5	4	4	CC
19	Q2	0 0 1+ 2	1- 1- 1- 1-	6	3	0.1	0o 1- 1o 3-	1- 0+ 1+ 1+	7	7	8	10	6	CC
20	Q5K	0+ 1- 2- 1	0+ 0 1 4-	9-	5	0.2	0+ 1- 2o 1+	0o 0+ 2- 4-	11	10	14	9	16	K
21		4- 5- 3 3-	4- 5- 3- 2	27	21	1.1	4- 4o 3o 3-	3+ 4+ 3- 2o	36	39	39	42	36	
22	Q6	2 2+ 1- 1-	2 2- 1 2-	12	6	0.3	2o 2+ 1o 1o	3- 2- 1+ 2o	13	15	16	12	18	
23		2 1- 2- 3	4 3+ 1 2-	17+	11	0.6	2+ 1o 1+ 3-	4o 4- 1+ 2o	23	22	26	19	29	
24	D5	3 5- 4- 5-	4 4 4+ 5-	33	30	1.3	2+ 4o 3+ 4+	4o 4o 4o 4o	49	62	55	51	66	
25		4- 4+ 4 3+	4- 3+ 2+ 3	28-	20	1.0	3+ 4- 3+ 3-	3+ 3- 2+ 3o	32	33	37	39	32	
26		3 3- 3 3+	2 3 4 3+	24+	16	0.9	3o 2+ 3o 3-	2+ 3o 4- 3+	29	36	24	29	31	
27		4- 2 2+ 3	3+ 3 2+ 2+	22	13	0.7	3+ 2o 2+ 3-	3- 3- 3- 2+	23	29	23	27	25	
28		3 4 3 3	4 3- 2 2+	24	16	0.9	2+ 4- 3- 3-	4- 3- 2o 2+	26	33	29	35	28	
29	Q7A	1- 1+ 2+ 3	2+ 1+ 1 1+	13+	7	0.3	1o 1+ 2+ 3-	2o 2- 1o 1o	13	16	9	13	12	C
Mean					16	0.72			26.6	30.6	28.2	29.4		

Day	Kn Three-Hourly Indices 1 2 3 4	5 6 7 8	An	Ks Three-Hourly Indices 1 2 3 4	5 6 7 8	As	Sa	Prov Ri	Ra	Rs	IMF
1	2- 1o 1+ 1o	3+ 2+ 2o 2+	15	2o 2- 2- 1o	3- 2o 2o 2+	15	134.1	71		83	
2	2+ 1o 1- 2-	3- 3o 2+ 2o	16	3- 1+ 1- 2-	2o 3- 2+ 2o	15	140.2	64		89	
3	1- 1o 2+ 2-	4- 3- 3- 3o	21	3- 2o 2o 1+	3- 3- 3- 3-	19	149.7	81		100	
4	2- 1o 2- 0+	1+ 1+ 1- 2-	8	2- 2- 1+ 1-	2- 1+ 1+ 2+	10	162.7	99		114	
5	1- 1- 0o 1-	1o 3o 5o 4o	24	1+ 1- 1- 1+	1o 3+ 5- 5-	28	163.1	104		114	
6	4- 4o 3o 4-	4- 4- 4+ 4+	50	4o 5- 3+ 4o	3+ 4o 4+ 5o	59	172.8	129		125	
7	4o 3+ 3+ 4-	5- 4- 4o 4-	48	5- 3o 3o 3+	4- 4- 4o 4-	46	177.0	130		129	
8	3o 3o 1+ 3o	3o 3o 4- 2+	28	4- 3o 2o 2+	2+ 3o 4- 3-	27	169.0	128		121	
9	1o 3- 2o 1o	3+ 4o 2- 2-	21	2- 2o 2+ 1+	3- 4- 2+ 2-	19	170.8*	109		122	
10	2o 2- 2+ 1+	2o 2+ 2- 3o	16	2+ 2o 3- 1+	1+ 2- 2o 3-	16	171.1	122		123	
11	2+ 4o 3- 3+	3- 3o 3o 4o	33	3- 4o 2o 3-	3- 3- 3o 5-	33	165.8	114		117	
12	5o 5- 5+ 6+	5+ 5- 4- 2o	87	5+ 5- 5+ 6+	6o 4o 4- 2+	98	159.1	113		110	
13	3o 2- 3- 3o	3+ 4- 3- 3-	28	3o 2- 3- 3o	3o 3+ 3- 3-	27	155.9	108		106	
14	3o 4o 3+ 4o	5o 5- 4- 4-	53	3o 3+ 4- 4o	5o 4+ 4o 4o	56	154.7	119		105	
15	3+ 3+ 2o 1+	2- 2o 3+ 4-	26	4- 3o 2+ 2-	1+ 2o 3o 4o	27	152.2	118		102	
16	2+ 2- 1- 0o	2- 2o 2o 1+	11	3- 3- 1o 1o	1+ 1+ 2o 1+	12	156.3	131		107	
17	1- 1- 1o 2+	3- 2+ 2+ 1-	12	1- 0+ 1o 2o	2+ 2- 2- 1+	10	164.4	109		116	
18	0+ 0+ 0o 0o	0+ 0+ 0+ 0o	2	0o 0o 0+ 1-	1- 0+ 0+ 0+	3	137.8	104		87	
19	0o 0o 1+ 2+	0+ 1- 1o 1o	6	0+ 1o 1- 3-	1- 0+ 1+ 1+	8	141.5	89		91	
20	0+ 0+ 2o 1+	0+ 0+ 1+ 3+	10	0+ 1o 2o 1+	0o 0+ 2- 4-	12	149.9	76		100	
21	3o 4+ 3o 3-	3+ 4+ 3- 2-	36	4- 4o 3o 3o	3o 4+ 3- 2o	36	148.7	92		99	
22	2- 2+ 1- 1o	3- 2o 1+ 2-	13	2o 3- 1+ 1-	3- 1+ 1+ 2+	14	168.6	100		120	
23	2o 1- 1o 2+	4o 4- 1+ 2o	21	2+ 1+ 2- 3o	4+ 3+ 2- 2o	25	181.2	102		134	
24	2+ 4- 3o 4+	4o 4o 4o 4+	48	3- 5- 4- 4+	4- 4o 4o 4o	51	188.3	123		141	
25	3o 4- 3+ 3o	4- 3o 2+ 3+	34	4- 3+ 4- 3-	3+ 2+ 3- 3-	31	206.2	131		161	
26	3o 2+ 3o 3-	3- 3o 4- 3+	30	3o 2o 3- 3-	2- 3- 4- 4-	27	210.6	144		165	
27	3+ 2- 2+ 3-	3o 3o 3- 2o	24	3+ 2+ 2o 3-	2+ 2+ 3- 2+	22	222.9	150		179	
28	2+ 4- 3- 2+	4o 3- 2o 2o	26	3- 4- 3- 3o	3+ 3- 2o 2+	26	214.7	143		170	
29	1o 1+ 3- 3-	3- 2o 1- 1+	14	1o 2- 2o 3-	2- 1+ 1o 1o	11	215.1	153		170	
Mean			26.2			27.0	169.1	112.3		120.6	

Daily Average Indices Ap
Mar 1999 - Feb 2000

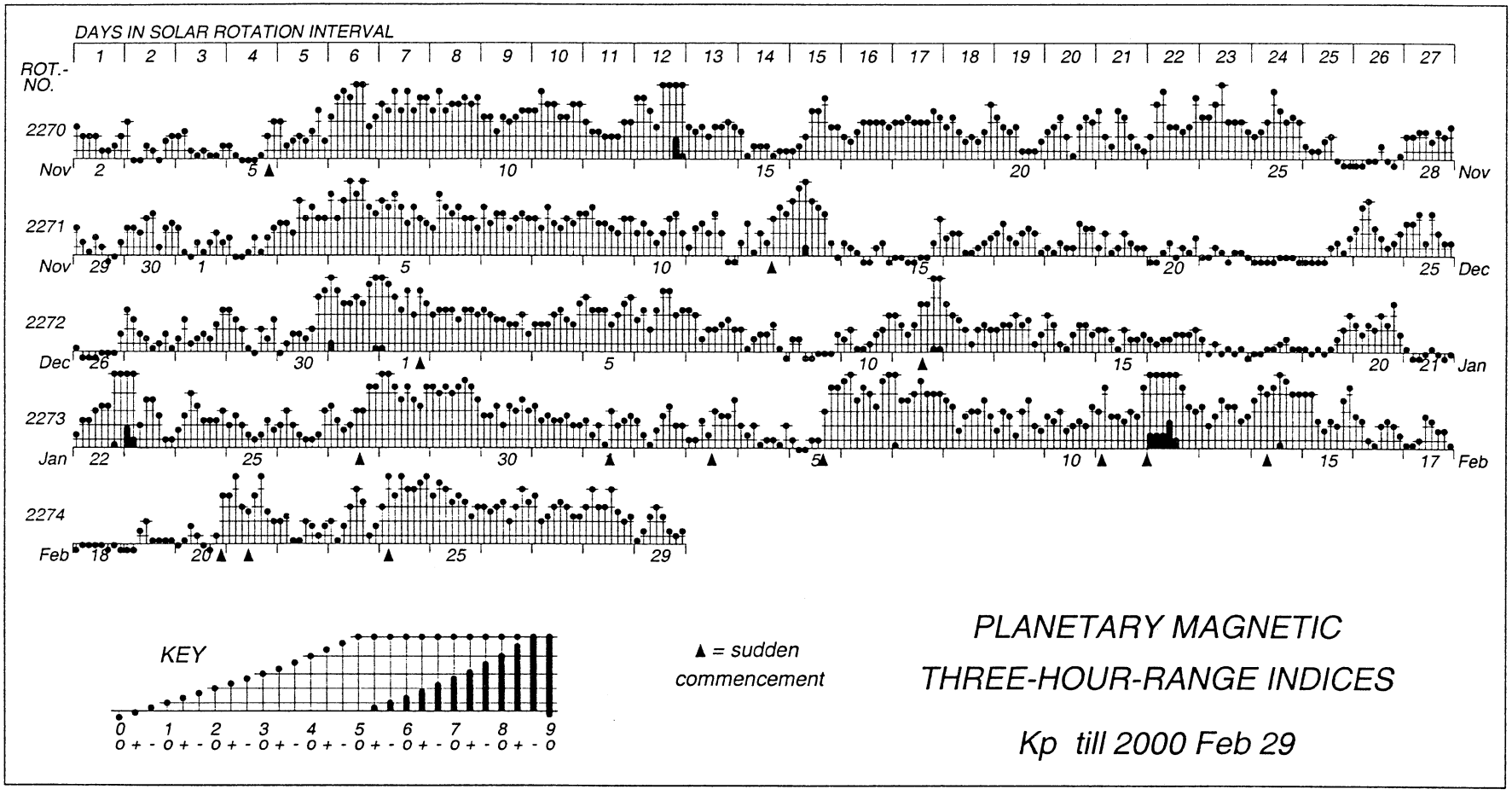


Day	Mar 99	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 00	Feb
1	41	12	21	6	6	8	20	9	10	5	30	8
2	22	10	11	10	26	6	9	13	7	5	16	8
3	16	10	8	7	9	4	15	8	5	16	12	10
4	30	14	4	8	2	10	11	17	5	30	13	5
5	16	12	7	4	2	7	6	18	5	20	19	12
6	13	10	9	3	8	15	5	6	10	18	19	34
7	22	11	7	5	4	10	18	5	31	16	10	31
8	12	8	4	13	6	7	8	7	29	14	5	15
9	21	6	5	14	4	13	9	6	28	14	3	11
10	34	16	4	4	4	5	16	33	18	10	6	10
11	15	10	2	4	4	6	10	29	26	7	24	17
12	11	8	8	5	10	8	31	46	10	11	10	60
13	6	3	25	4	4	8	46	23	43	26	9	14
14	15	7	8	2	5	4	21	31	11	3	8	33
15	14	4	6	6	8	19	27	31	5	4	6	17
16	3	18	3	7	4	29	31	26	14	5	6	7
17	5	47	2	6	3	29	16	21	12	7	3	6
18	6	6	27	6	4	28	13	6	17	6	3	1
19	6	12	10	4	4	24	9	6	12	5	5	3
20	5	24	7	2	5	36	8	3	9	3	10	5
21	5	12	5	2	14	5	11	20	12	2	2	21
22	3	4	3	2	25	12	50	91	11	1	22	6
23	6	5	8	4	11	31	28	32	19	2	29	11
24	4	6	11	4	11	29	5	26	21	11	13	30
25	8	4	15	3	8	9	4	16	18	10	7	20
26	6	6	6	18	6	16	20	10	4	2	8	16
27	4	14	7	25	5	13	43	19	2	7	17	13
28	6	19	7	24	9	12	27	21	8	8	32	16
29	28	24	3	6	6	10	25	9	4	8	30	7
30	22	23	4	3	53	23	26	6	10	11	15	
31	15		2		28	22		10		36	10	
Mean	14	12	8	7	10	15	19	19	14	10	13	16

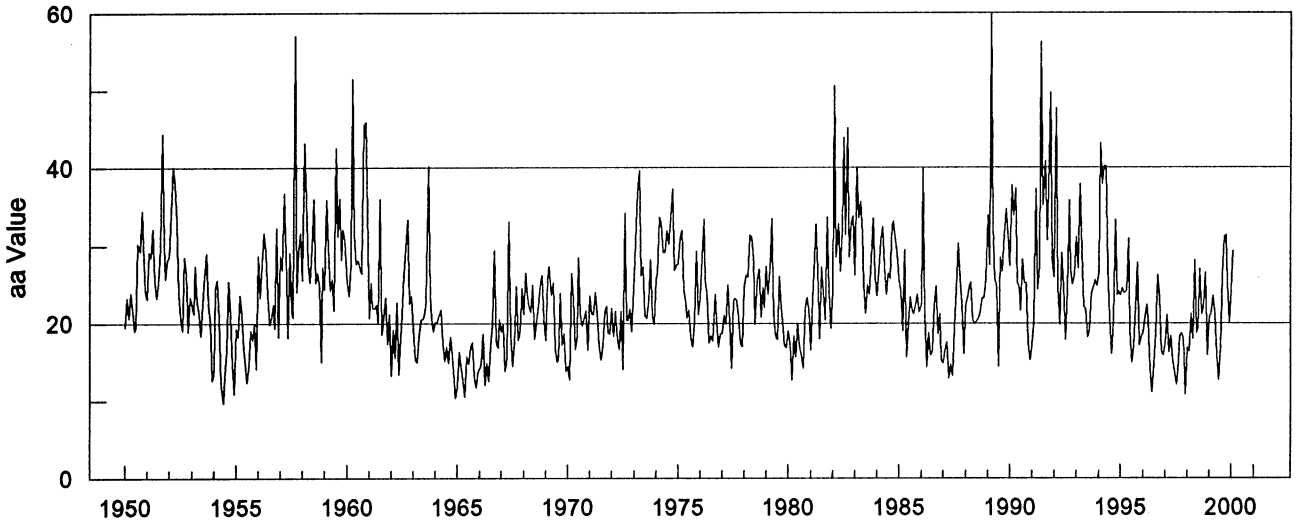
PLANETARY 3-HOUR-RANGE INDICES (Kp) BY 27-DAY SOLAR ROTATION INTERVAL

GeoForschungsZentraum Potsdam

Kp through February 29, 2000



Monthly Mean aa Index Jan 1950 - Feb 2000



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1950	19.5	23.2	20.6	23.8	21.7	19.0	19.5	30.2	29.3	34.5	28.0	24.0	24.4
1951	23.1	29.2	28.5	32.1	25.5	23.2	25.2	29.7	44.4	30.3	25.7	28.2	28.8
1952	28.5	34.3	40.1	38.0	33.1	23.8	20.7	19.0	28.5	26.4	18.9	23.4	27.9
1953	22.3	21.2	27.4	22.7	21.4	18.4	22.5	26.1	29.0	22.4	20.2	12.6	22.2
1954	13.9	24.5	25.5	20.6	12.0	9.7	13.1	16.5	25.4	21.1	14.5	10.9	17.3
1955	19.3	18.2	23.6	21.1	16.7	15.1	12.3	14.3	19.1	17.8	19.9	14.1	17.6
1956	28.7	23.3	27.6	31.7	29.3	23.5	19.8	20.7	22.4	19.3	32.3	18.2	24.7
1957	28.7	26.8	36.7	28.8	18.1	29.1	21.7	20.7	57.0	24.0	29.5	31.7	29.4
1958	25.5	43.2	36.1	27.6	25.2	29.7	36.0	25.1	26.5	24.7	15.0	27.2	28.5
1959	24.3	35.9	29.9	24.2	25.7	21.6	42.5	31.2	36.1	28.2	32.1	30.8	30.2
1960	25.2	23.5	27.6	51.5	31.6	27.6	28.1	27.2	26.4	45.6	45.9	34.5	32.9
1961	20.6	25.1	22.0	21.8	22.3	20.1	36.0	18.5	20.7	23.3	17.3	21.1	22.4
1962	13.2	19.2	15.5	22.6	13.4	18.1	21.0	26.2	29.8	33.3	22.5	23.5	21.5
1963	19.3	15.3	14.9	18.2	20.4	20.5	20.8	22.5	40.2	23.5	20.7	18.9	21.3
1964	20.1	20.1	21.0	21.7	17.5	15.1	16.9	14.8	18.2	16.9	13.8	10.3	17.2
1965	11.8	16.3	14.3	12.6	10.5	15.7	14.7	16.8	17.5	13.1	11.7	13.8	14.1
1966	14.2	14.8	18.6	12.0	14.8	12.5	17.1	20.0	29.4	17.5	16.8	20.5	17.3
1967	18.9	19.8	13.8	15.5	33.1	18.6	14.4	17.5	24.7	17.8	18.9	24.5	19.8
1968	21.1	26.5	23.3	22.2	21.4	24.9	18.0	20.1	22.0	24.8	26.2	20.3	22.6
1969	17.8	25.8	27.3	23.6	25.2	16.7	15.0	15.3	23.8	17.2	18.7	13.8	20.0
1970	14.4	12.7	26.4	23.1	16.6	18.3	28.4	21.0	19.7	20.6	21.6	16.5	19.9
1971	23.5	21.2	21.1	23.9	21.1	17.0	15.2	17.1	21.4	22.2	18.8	18.6	20.1
1972	21.9	18.3	21.5	18.1	16.6	21.5	14.0	34.2	20.4	20.4	21.8	18.9	20.6
1973	26.1	32.7	36.9	39.6	26.1	27.3	20.9	20.6	22.8	28.2	20.7	19.9	26.8
1974	25.8	26.4	33.7	32.9	29.2	29.2	32.0	30.2	33.7	37.3	26.8	27.5	30.4
1975	27.6	31.1	32.0	24.3	22.7	20.7	21.7	18.1	16.9	20.2	29.3	21.1	23.8
1976	23.3	28.5	33.4	25.4	23.7	17.5	18.4	17.7	23.7	20.4	16.9	18.6	22.3
1977	18.7	21.0	19.9	24.9	20.1	14.2	22.9	23.2	23.0	20.9	17.3	17.0	20.3
1978	24.6	26.2	25.9	31.3	31.2	28.3	19.9	25.6	27.0	20.8	24.6	22.0	25.6
1979	27.3	23.7	26.9	33.5	21.0	18.3	17.9	26.0	22.0	19.3	17.1	16.8	22.5
1980	19.0	17.3	12.7	18.4	15.6	20.0	17.0	15.9	14.2	21.9	23.3	21.7	18.1
1981	16.5	23.1	26.6	32.8	26.9	18.0	27.2	24.0	20.4	33.7	24.1	19.3	24.4
1982	24.2	50.6	28.5	32.9	26.7	32.1	43.9	31.4	45.1	28.5	33.0	33.8	34.2
1983	26.2	40.0	33.6	35.7	31.6	24.9	21.3	24.9	23.7	28.3	33.5	26.0	29.1
1984	23.5	26.7	30.7	32.5	27.2	23.7	26.4	25.8	32.6	33.1	31.0	29.0	28.5
1985	25.7	24.1	19.0	29.5	15.6	19.9	23.4	22.0	21.2	22.2	23.7	21.4	22.3
1986	22.4	40.0	21.1	14.3	18.8	15.9	16.3	22.3	24.7	18.6	21.2	15.3	20.9
1987	14.8	16.6	17.6	12.9	14.7	13.2	19.3	24.3	30.3	25.8	22.4	16.0	19.0
1988	22.4	23.4	24.8	25.2	20.5	20.0	20.2	20.6	21.4	23.2	23.3	25.5	22.5
1989	33.9	27.5	60.1	32.8	25.7	24.9	14.4	28.4	26.7	31.4	34.7	31.4	31.0
1990	27.4	37.8	33.9	37.4	25.1	24.6	21.6	28.2	25.1	25.1	17.4	15.2	26.6
1991	17.2	20.1	37.3	24.3	27.3	56.2	35.2	40.8	30.7	44.1	49.7	28.0	34.2
1992	25.9	47.7	24.5	19.8	29.1	24.8	17.9	24.1	35.8	27.0	25.0	26.1	27.3
1993	31.2	27.1	37.9	29.2	22.1	21.8	18.2	19.2	23.8	24.6	25.5	24.8	25.5
1994	26.5	43.2	37.9	40.2	40.2	27.2	20.6	16.0	20.2	33.3	23.6	24.1	29.4
1995	23.6	24.5	23.8	24.2	30.9	19.1	14.9	17.0	22.2	27.9	17.2	18.2	22.0
1996	18.8	20.8	22.3	20.5	14.0	11.1	14.7	18.8	26.2	23.5	16.3	15.9	18.6
1997	17.4	21.0	16.3	18.4	15.1	13.7	12.1	13.7	18.4	18.7	18.0	10.8	16.1
1998	16.8	16.4	21.2	18.0	28.1	18.8	19.3	27.0	21.1	22.4	26.5	15.9	21.0
1999	20.8	21.3	23.5	21.3	15.8	12.7	16.9	26.2	31.2	31.3	25.1	20.1	22.2
2000	24.2	29.4											26.8

PLANETARY GEOMAGNETIC ACTIVITY

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

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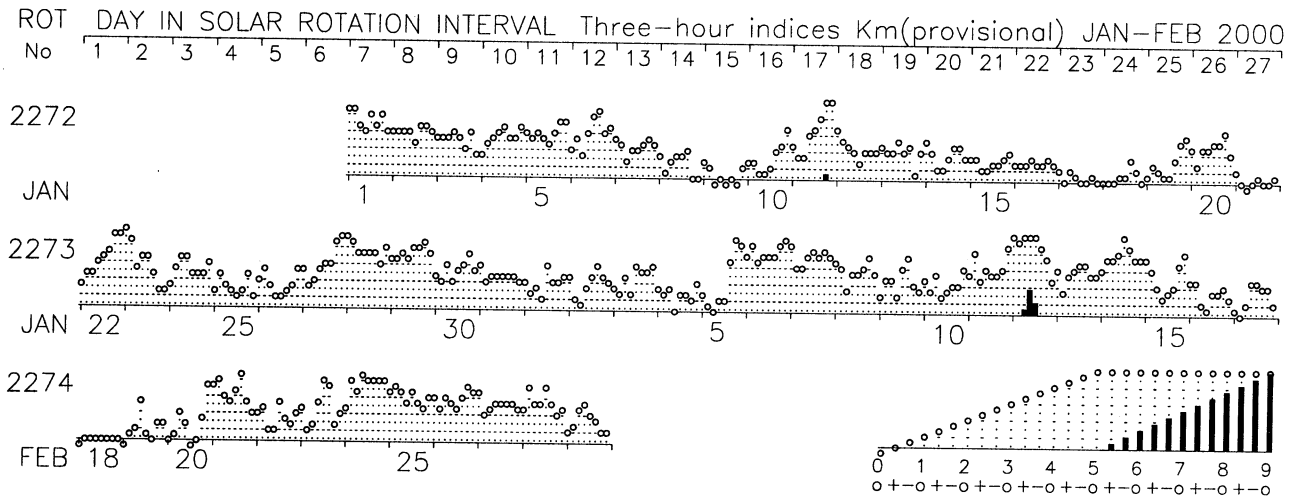
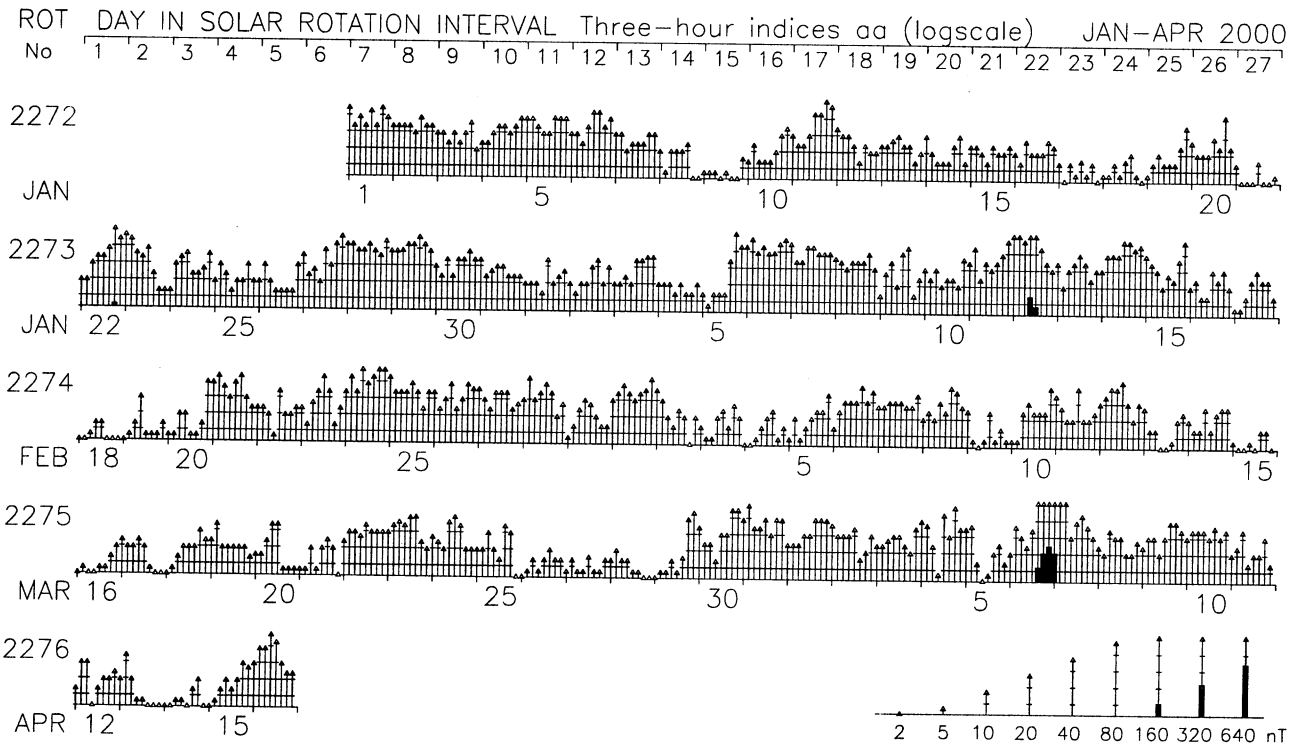


Indices Derivation at Universite Paris Sud; Graph Prepared at ISGI Publication Office.



Indices Derivation at Universite Paris Sud; Graph Prepared at ISGI Publication Office.

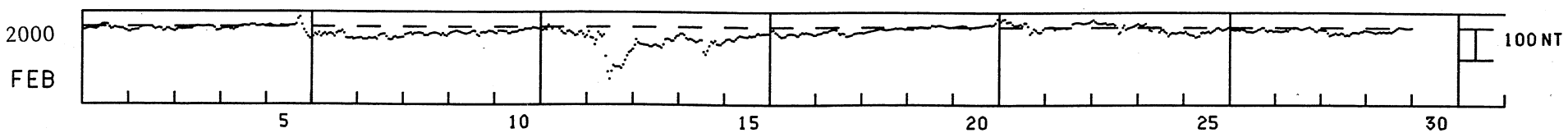
WDC-C2 FOR GEOMAGNETISM, KYOTO UNIVERSITY

HOURLY EQUATORIAL DST VALUES(PROVISIONAL)

FEBRUARY 2000

UNIT=NT

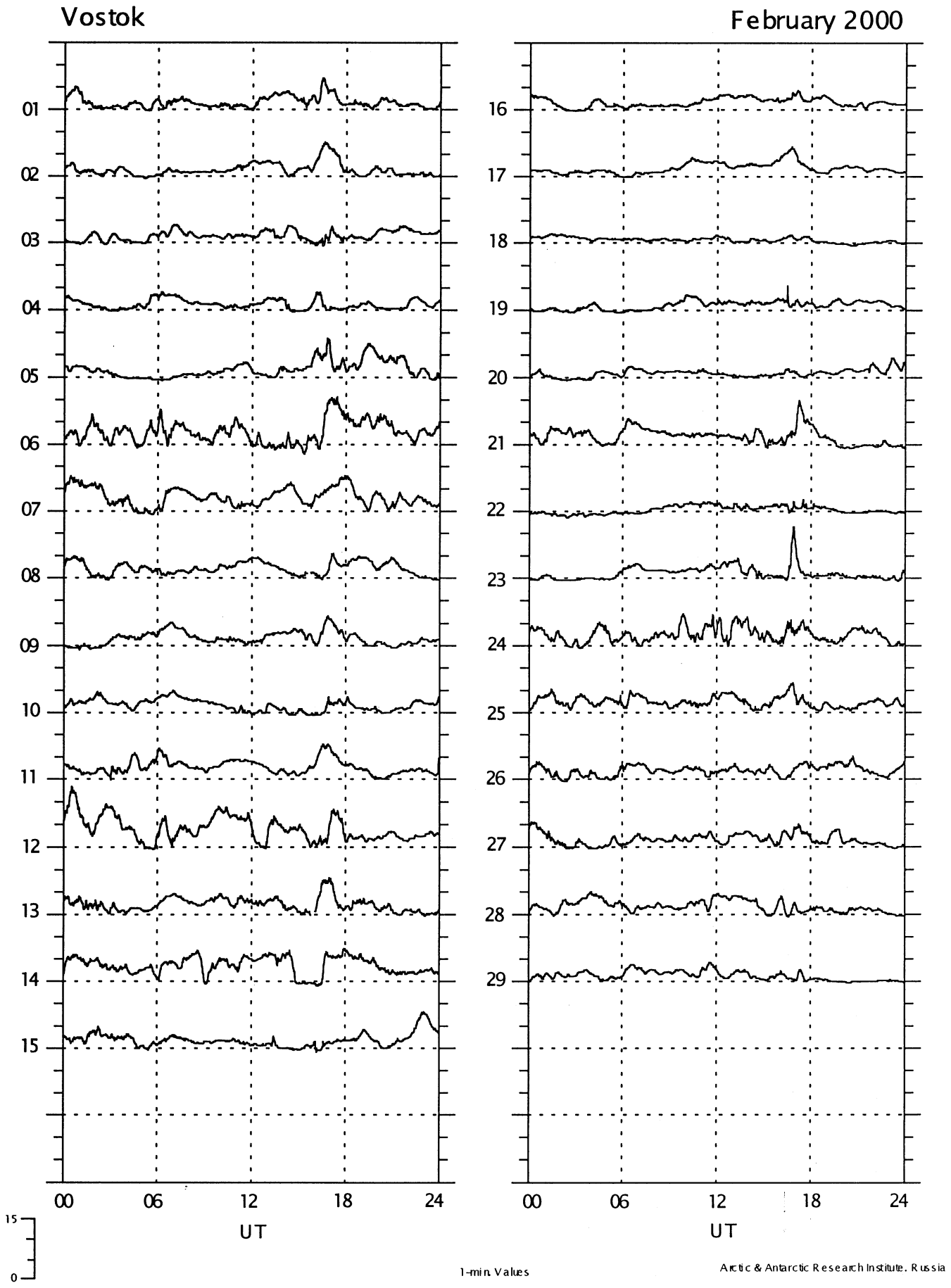
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	U.T. 24
1	-10	-7	-5	-3	-6	-6	-8	-4	3	7	10	10	7	-2	-8	-5	-2	-3	-6	-6	-6	-10	-12	-16
2	-15	-12	-12	-10	-9	-4	-2	2	2	0	0	2	-4	-7	-5	-4	-6	-14	-12	-6	-5	-9	-12	-13
3	-9	-6	-6	-7	-8	-6	-5	-5	-5	-2	2	4	4	1	2	1	4	3	1	1	-3	-11	-12	-9
4	-6	-5	-4	-4	-7	-6	-9	-6	-3	0	3	5	5	3	3	8	8	7	4	3	3	5	4	3
5	6	8	5	3	1	1	1	5	5	3	4	4	5	6	6	10	26	32	8	-10	-21	-30	-37	-29
6	-30	-22	-27	-17	-30	-25	-20	-27	-23	-20	-25	-31	-19	-15	-15	-12	-19	-35	-38	-37	-35	-39	-37	-38
7	-36	-35	-40	-39	-40	-36	-37	-38	-36	-40	-29	-25	-23	-22	-31	-39	-41	-39	-32	-30	-36	-34	-33	-32
8	-25	-22	-20	-18	-25	-21	-19	-17	-19	-20	-26	-27	-26	-23	-19	-18	-18	-20	-22	-26	-21	-26	-28	-23
9	-18	-15	-14	-12	-14	-15	-17	-20	-23	-20	-17	-13	-11	-14	-25	-28	-18	-15	-18	-15	-11	-13	-13	-17
10	-19	-12	-12	-12	-13	-14	-20	-21	-15	-16	-16	-13	-10	-10	-9	-6	-5	-6	-5	-2	-1	-3	-5	-11
11	-9	-5	-8	7	1	-6	0	2	1	-5	-13	-19	-22	-14	-12	-16	-21	-26	-24	-16	-13	-23	-32	-27
12	-13	-33	-36	-56	-42	-15	-24	-30	-25	-94	-145	-169	-143	-124	-128	-127	-129	-132	-121	-107	-93	-82	-77	-72
13	-59	-40	-50	-54	-57	-56	-59	-58	-62	-63	-58	-57	-60	-62	-66	-55	-40	-38	-40	-44	-44	-34	-28	-26
14	-20	-20	-24	-36	-39	-37	-40	-44	-47	-46	-42	-42	-79	-88	-76	-61	-45	-50	-44	-53	-55	-56	-50	-46
15	-40	-38	-37	-42	-43	-38	-31	-26	-29	-29	-30	-30	-27	-28	-27	-26	-19	-18	-22	-20	-20	-21	-19	-14
16	-9	-8	-15	-21	-27	-31	-31	-29	-23	-21	-20	-20	-23	-27	-27	-20	-15	-17	-16	-17	-17	-21	-25	-24
17	-21	-20	-17	-13	-13	-13	-10	-7	-5	-7	-7	-17	-22	-18	-20	-28	-28	-26	-24	-20	-17	-17	-15	-15
18	-17	-16	-13	-11	-11	-9	-8	-7	-5	-4	-6	-6	-7	-7	-5	-5	-4	-2	-3	-2	-2	-4	-5	-3
19	-4	-6	-5	0	-1	1	3	3	1	-2	-2	2	7	8	6	7	7	7	5	3	2	2	1	2
20	4	4	5	6	8	5	5	0	-3	0	0	3	4	3	6	8	7	7	9	7	9	16	29	27
21	20	26	29	18	20	21	12	8	8	10	11	8	16	15	5	-20	-13	-4	-8	-14	-15	-13	-6	1
22	2	3	3	4	-5	-2	-2	-2	0	0	-1	0	2	14	15	19	17	16	15	14	15	15	18	23
23	27	21	15	14	14	16	16	12	12	14	13	9	1	-17	-13	1	10	-6	-2	2	4	5	10	13
24	10	7	9	13	3	-8	-9	-1	4	3	-14	-7	-5	-12	-16	-27	-21	-15	-16	-17	-15	-13	-16	-15
25	-11	-17	-23	-23	-25	-31	-28	-27	-16	-13	-15	-13	-11	-15	-11	-7	-2	0	-3	-8	-5	-3	0	-2
26	-6	-8	-8	-6	-7	-4	-5	-7	-11	-11	-12	-13	-12	-9	-6	-4	1	1	-7	-11	-7	-8	-11	-9
27	-9	-11	-12	-12	-9	-8	-9	-4	0	-1	0	-2	-4	-6	-4	-1	1	4	-1	-3	-10	-11	-6	-6
28	-8	-7	-8	-16	-25	-23	-20	-16	-19	-19	-16	-17	-25	-23	-24	-17	-14	-13	-14	-15	-12	-11	-8	-7
29	-10	-10	-12	-13	-15	-13	-12	-13	-12	-13	-14	-12	-14	-10	-5	-1	3	4	1	0	-2	-1	-2	0

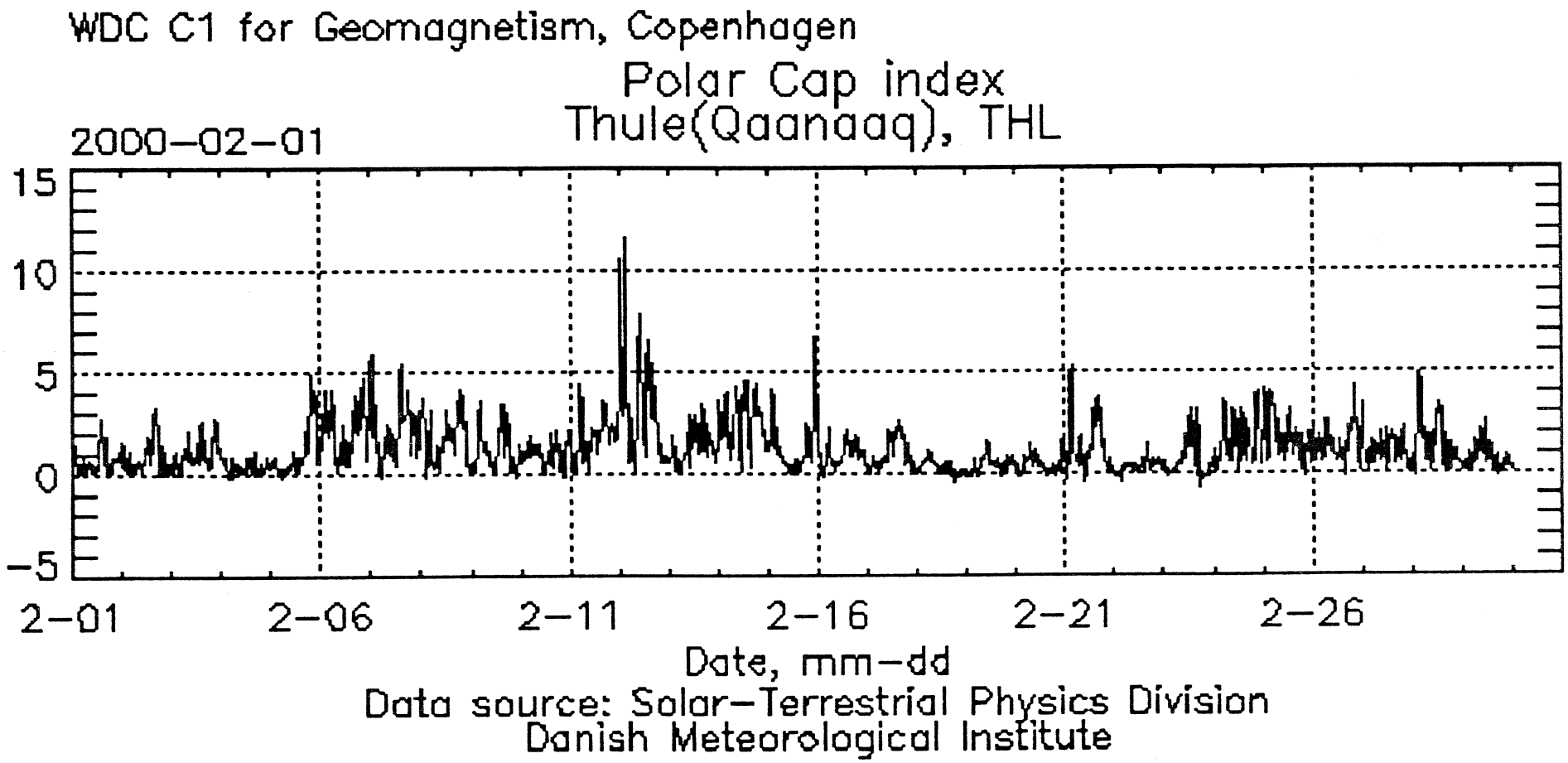


Note: The baselines for the observatories were adjusted for secular change for the Provisional Dst values for February 2000.

168
Feb 00

PC-INDEX




WDC C1 for Geomagnetism, Copenhagen
Polar Cap index
Thule(Qaanaaq), THL
2000-02-01
15
10
5
0
-5
2-01
2-06
2-11
2-16
2-21
2-26
Date, mm-dd
Data source: Solar-Terrestrial Physics Division
Danish Meteorological Institute

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

FEBRUARY 2000

Sta	Geomag Lat	Commencement Time Day	(UT)	Type	SC Amplitudes D (Min)	H (Gamma)	Z (Gamma)	Maximum 3-Hour K Index Day(3-Hour Periods)	Ranges K	D (Min)	H (Gamma)	Z (Gamma)	End Day	Hour (UT)
BJI	22.8N	05	1544	SC	0.2	12	0	05(7)	6	8	104	20	07	22
KRC	16.4N	05	1544	SC	- 1.0	16	11	05(7,8) 06(3,4,6,7)	5	6	99	56	08	08
UJJ	13.6N	05	1542	SC	- 0.2	11	- 3		-	4	111	12	07	23
NGP	11.3N	05	1542	SC	..	10	- 2		-	4	136	18	07	23
ABG	09.4N	05	1542	SC	- 0.2	9	- 2	05(7,8) 06(6,7) 07(5,6) 09(5)	5	4	118	27	07	23
HYB	07.6N	05	1544	SC	- 0.2	11	- 1	05(8) 06(7)	5	4	119	21	07	23
PND	02.0N	05	1542	SC	- 0.1	9	10		-	4	125	53	07	23
TIR	00.6S	05	1542	SC	- 0.1	8	10		-	4	171	84	07	23
HER	33.6S	05	15--	..	..	..	..	05(7,8) 06(7,8) 07(1)	5	31	104	116	07	03
BJI	22.8N	11	2350	SC	1.0	34	1	12(4)	7	12	258	49	12	24
KRC	16.4N	11	2355	SC	- 5.0	85	48	12(4)	7	10	271	80	13	07
UJJ	13.6N	11	2352	SC	- 1.1	54	- 12		-	5	240	30	13	22
NGP	11.3N	11	2352	SC	- 0.3	52	- 8		-	4	267	23	13	22
ABG	09.4N	11	2352	SC	- 1.0	46	- 11	12(4)	7	5	256	39	13	22
HYB	07.6N	11	0258	SC	- 0.4	18	- 3		-	--	--	--	--	--
HYB	07.6N	11	2354	SC	- 0.7	48	- 2	12(4,5)	7	4	271	29	12	22
PND	02.0N	11	2352	SC	- 0.3	42	43		-	4	286	134	13	22
TIR	00.6S	11	2352	SC	- 0.3	31	46		-	5	325	159	13	22
HER	33.6S	11	0258	SC*	3	17	15	11(8) 12(5)	6	33	206	129	12	19
KRC	16.4N	14	0723	..	..	..	..	14(5)	6	5	122	44	15	23
UJJ	13.6N	14	0700	..	..	..	..		-	3	139	25	15	18
NGP	11.3N	14	0700	..	..	..	..		-	3	166	22	15	18
ABG	09.4N	14	0700	..	..	..	..	14(4,5,6,7) 15(8)	5	3	158	32	15	18
HYB	07.6N	14	0732	SC	- 0.4	16	- 2	14(5)	6	4	161	24	16	07
PND	02.0N	14	0700	..	..	..	..		-	3	165	87	15	18
TIR	00.6S	14	0700	..	..	..	..		-	3	206	96	15	18
HER	33.6S	14	05--	..	..	..	..	14(8)	5	33	97	109	15	04
KRC	16.4N	20	2143	SC	- 2.0	41	22	21(5,6)	5	5	116	55	22	07
UJJ	13.6N	20	2139	SC	- 0.5	21	- 7		-	4	136	26	21	22
NGP	11.3N	20	2139	SC	- 0.2	23	- 3		-	4	165	28	21	22
ABG	09.4N	20	2139	SC	- 0.4	20	- 6	21(5,6)	5	3	155	37	21	22
HYB	07.6N	20	2140	SC	- 0.4	21	- 3	21(5,6)	5	3	158	30	22	04
PND	02.0N	20	2139	SC	- 0.2	19	25		-	3	195	78	21	22
TIR	00.6S	20	2139	SC	- 0.2	13	20		-	-	--	--	21	22
HYB	07.6N	22	1230	..	..	..	..	23(6) 24(6)	5	3	137	32	25	23
KRC	16.4N	23	0354	..	..	..	..	23(5,6) 24(4,6)	5	6	109	48	25	06
UJJ	13.6N	23	1100	..	..	..	..		-	4	105	24	24	24
NGP	11.3N	23	1100	..	..	..	..		-	5	132	33	24	24
ABG	09.4N	23	1100	..	..	..	..	23(5,6) 24(6)	5	3	121	38	24	24
PND	02.0N	23	1100	..	..	..	..		-	4	159	83	24	24
TIR	00.6S	23	1100	..	..	..	..		-	-	--	--	24	24

Stations:

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

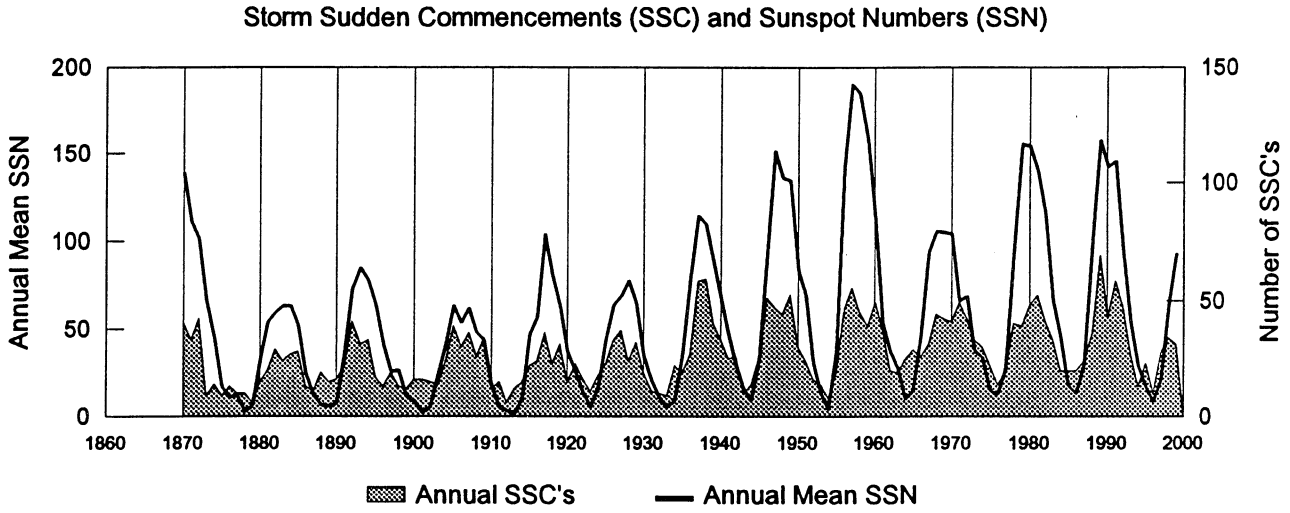
MAGNETIC STORM SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS (PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS)

FEBRUARY 2000

Storm Sudden Commencements (SSC)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
05	1544	A: BJI	04	0745-0755	NAG
		B: WNG* HRB NAG* COI SPT* QUE GUI LNP GNA CNB			
		C: NGK* VAL* BDV* EBR HYB			
11	0258	A: HRB* NAG* COI BJI SPT* GUI LNP HER*			
		B: WNG* NGK* VAL* BDV* EBR* HYB GNA* CNB*			
		C: QUE			
11	2352	A: HRB* EBR COI BJI SPT QUE LNP HYB GNA*			
		B: WNG NGK* BDV NAG* MMB* KAK* KNY* GUI			
14	0731	B: LNP HYB			
		C: SOD* NGK* BDV* QUE			
20	2139	A: WNG* NGK* HRB* NAG* COI BJI SPT* LNP			
		B: VAL* BDV* EBR* QUE GUI HYB GNA* CNB*			

REPORTING OBSERVATORIES (up to the 3rd of April 2000):
SOD NUR WNG NGK VAL BDV HRB NAG MMB EBR COI BJI SPT KAK KNY QUE GUI LNP HYB GNA HER 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 (+).



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