

AUGUST 2006 NUMBER 744 - Part II



Solar-Geophysical Data comprehensive reports

Data for February 2006 and Miscellaneous
Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

NEW DATA:

**ACE Solar Wind, Interplanetary Magnetic Field and
Particles -- Monthly Plots**

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World-Wide Web <http://www.ngdc.noaa.gov>
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noaa

NATIONAL OCEANIC AND
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NATIONAL ENVIRONMENTAL SATELLITE,
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AUGUST 2006 NUMBER 744 - Part II

Solar-Geophysical Data comprehensive reports

Data for February 2006 and Late Data

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Boulder, Colorado

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SOLAR-GEOPHYSICAL DATA

Number 744
(Issued in Two Parts)

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The entry "738A 48" under Dec, for example, means that the sunspot drawings for Dec appear in SOLAR-GEOPHYSICAL DATA No. 738 Part I, and that they begin on page 48 "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

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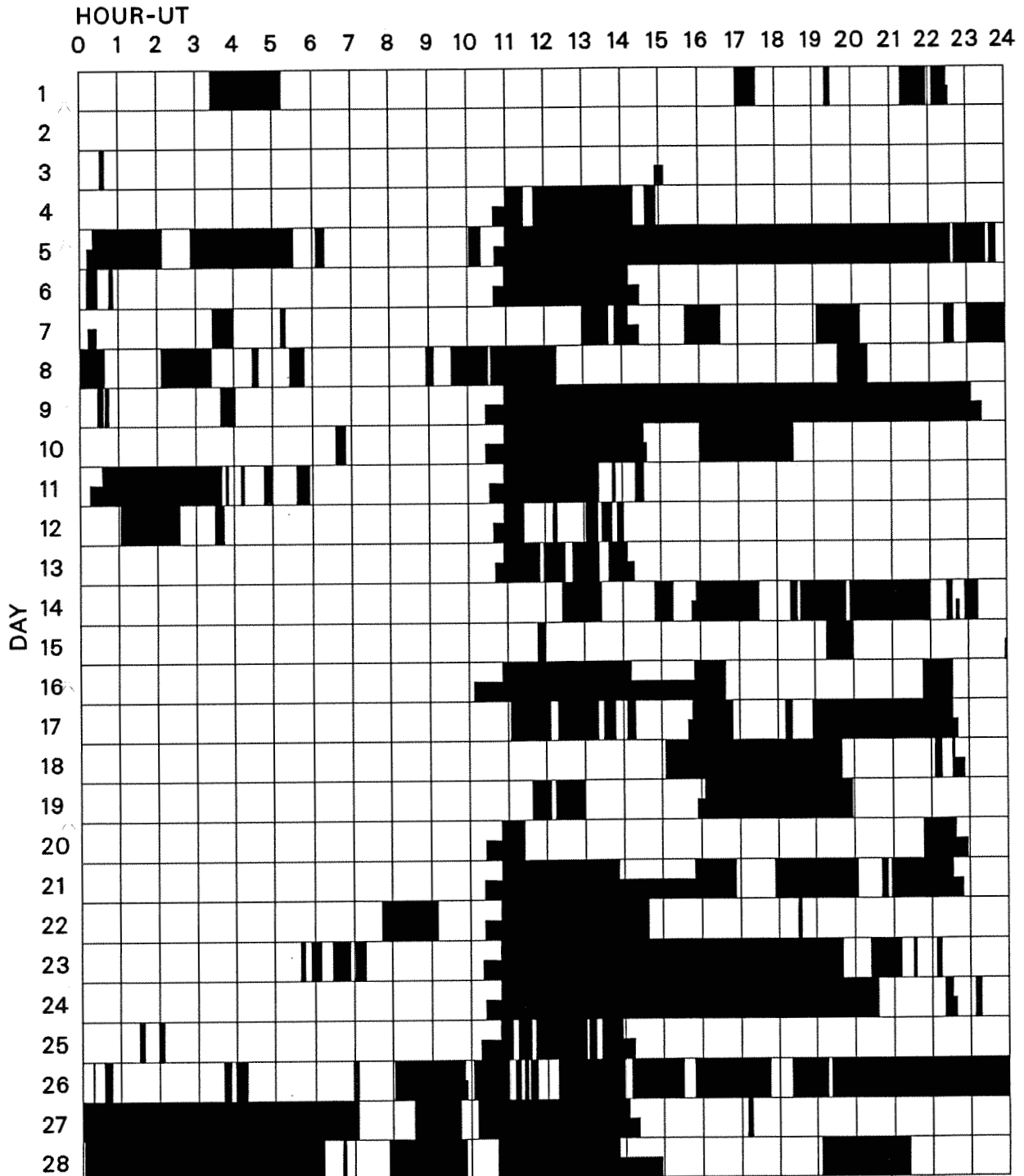
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FEBRUARY 2006



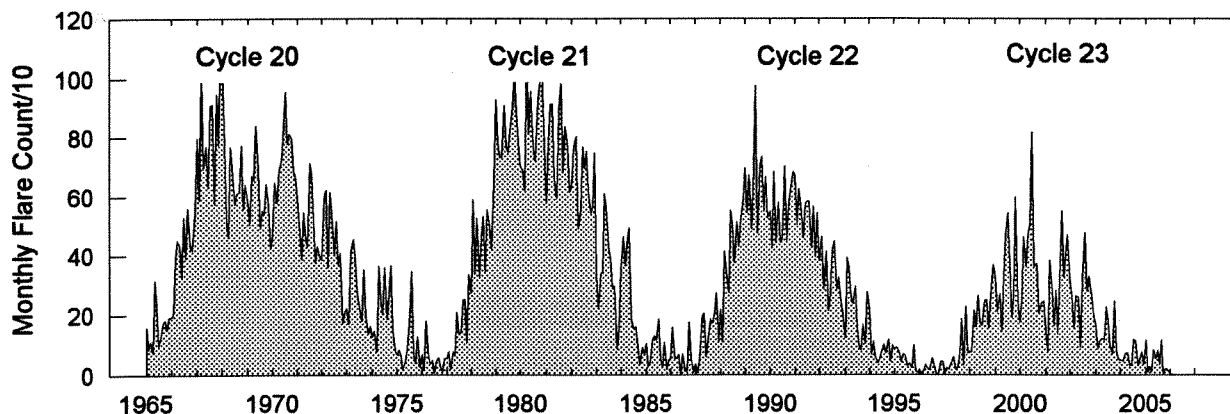
Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic); portions of a panel with only the bottom half shaded mark times of only visual patrol.

Holloman

Learmonth

San Vito

Monthly Counts of Grouped Solar Flares Jan 1965 - Feb 2006



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14	6	639
1996	14	3	15	34	21	16	54	31	3	0	44	45	280
1997	8	22	18	43	59	18	26	75	188	31	228	74	790
1998	78	76	216	161	264	177	164	248	249	155	268	367	2423
1999	330	212	271	145	330	466	544	368	192	264	598	243	3963
2000	175	248	462	362	473	505	818	364	372	208	241	246	4474
2001	147	77	383	284	164	282	137	376	549	325	405	468	3597
2002	318	261	155	263	259	91	318	474	280	329	279	196	3223
2003	164	87	112	122	117	226	181	94	73	245	78	53	1552
2004	49	47	71	72	32	33	118	112	30	54	76	34	728
2005	114	10	28	11	82	56	81	35	114	4	20	16	571
2006	4	0											4

The term 'grouped' means observations of the same event by different sites were lumped together and counted as one.

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

FEBRUARY 2006

Day	△ Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
13	410 LEAR	4 S/F	0659.0	0705.0	16.0	85.0			QL=4 ST=2 TYP=3
14	33 UPIC	45 C	0719.7	0720.0	1.3				UNCERTN
15	245 PALE	8 S	0106.0	0107.0	1.0	130.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	0106.0	0106.0	1.0	90.0			QL=4 ST=2 TYP=3
	33 UPIC	45 C	1147.0	1147.2	1.0				UNCERTN
16	127 TORN	43 NS	1110.0		70.0		3.0		V=2
	900 GORK	21 GRF	0907.9	0913.5	9.9	14.0			
	900 GORK	40 F	0908.0	0913.6	9.0	5.8			
18	410 LEAR	4 S/F	0316.0	0323.0	11.0	82.0			QL=4 ST=2 TYP=3
21	410 SGMR	4 S/F	1251.0	1252.0	6.0	50.0			QL=4 ST=2 TYP=3
26	33 UPIC	8 S	1203.5	1203.8	0.8				

Reports are received routinely from the following observatories:

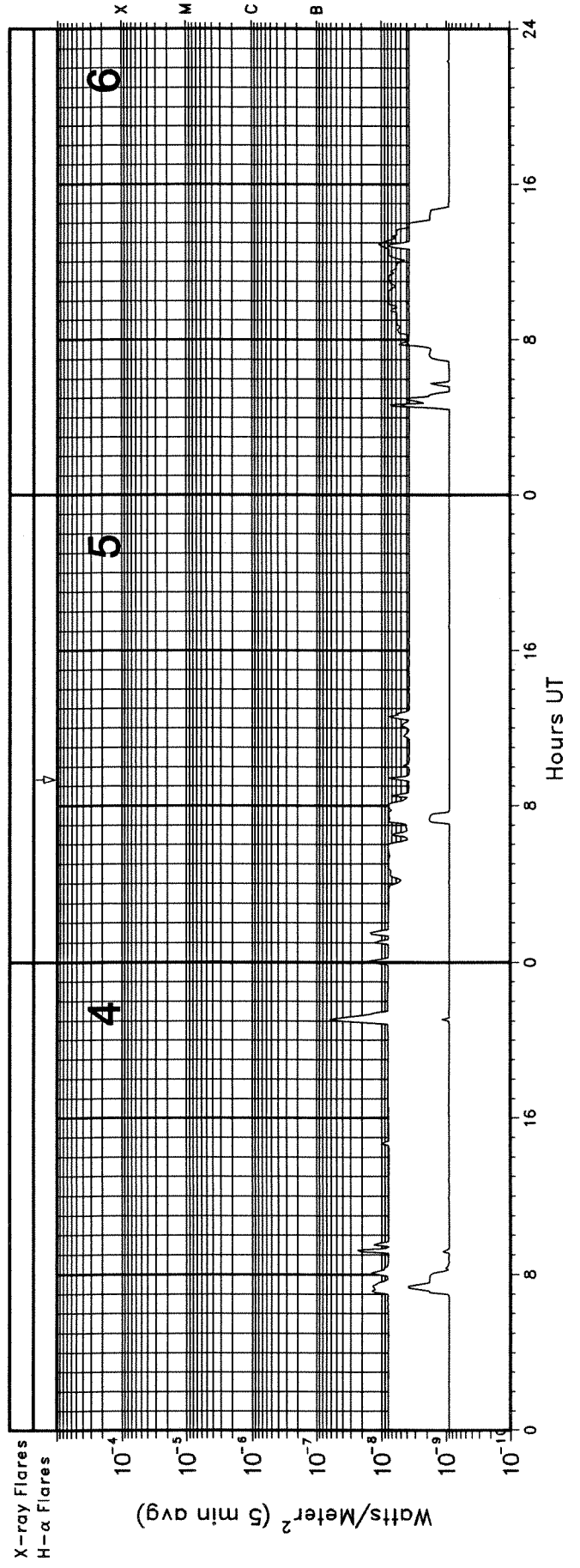
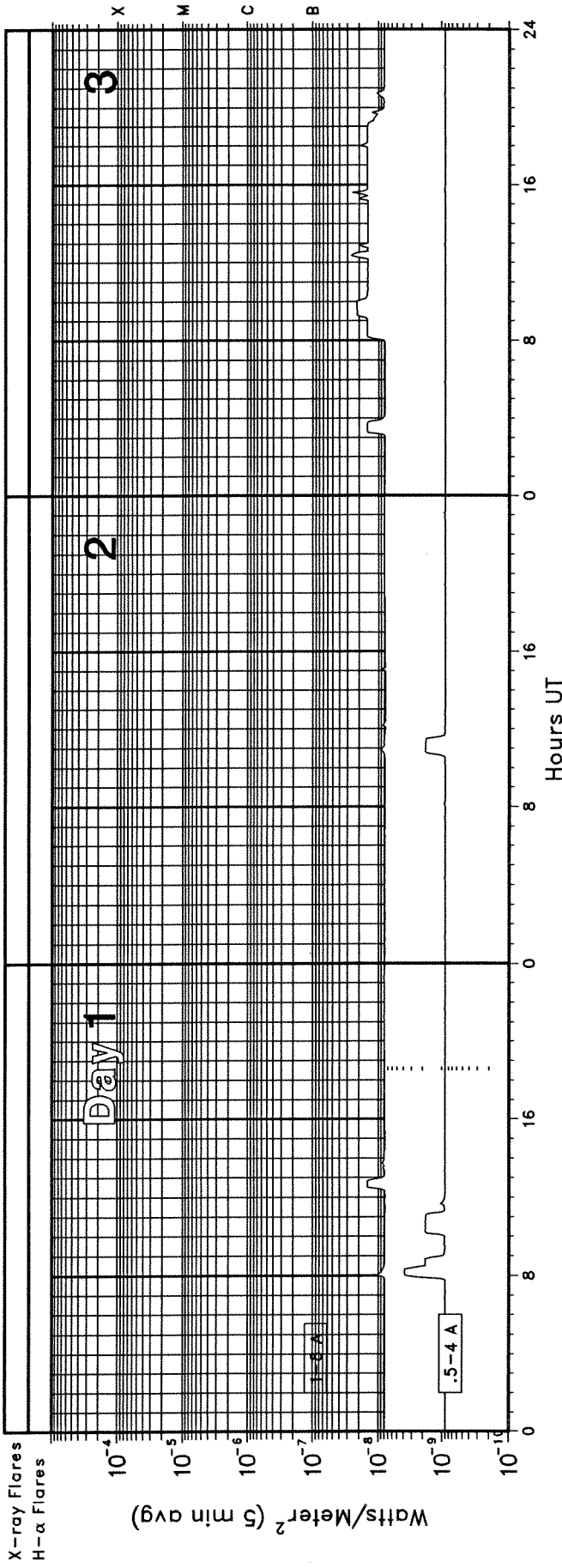
BERN = Berne	HUMN = Humain	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	IZMI = IZMIRAN	PEKG = Peking	TORN = Torun
CUBA = Havana	KISV = Kislovodsk	PALE = Palehua	TRST = Trieste
GORK = Gorky	KRAK = Krakow	PENT = Penticton	TYKW = Toyokawa
HIRA = Hiraiso	LEAR = Learmonth	POTS = Potsdam	UPIC = Upice
HUAN = Huancayo	NOBE = Nobeyama	SGMR = Sagamore Hill	

Explanation of Type Code:

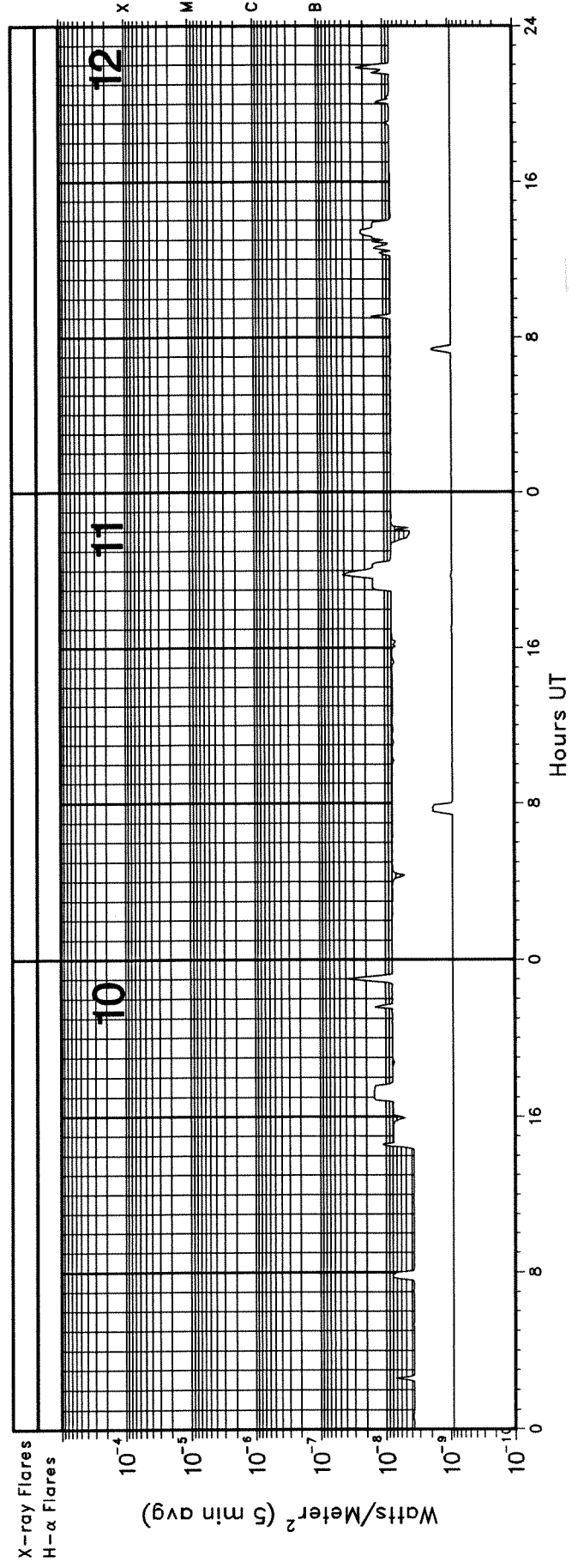
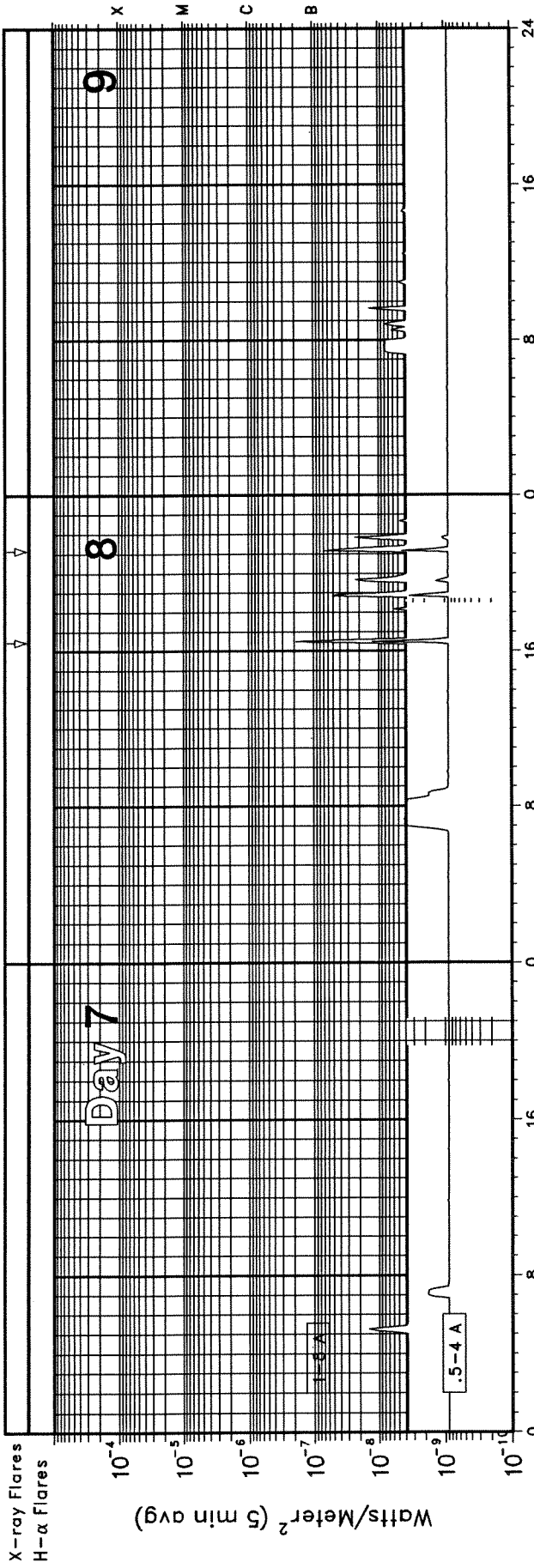
1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	4O Rise Only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	4OF Rise Only F	26O Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A	

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

GOES X-RAY DETECTOR February 2006

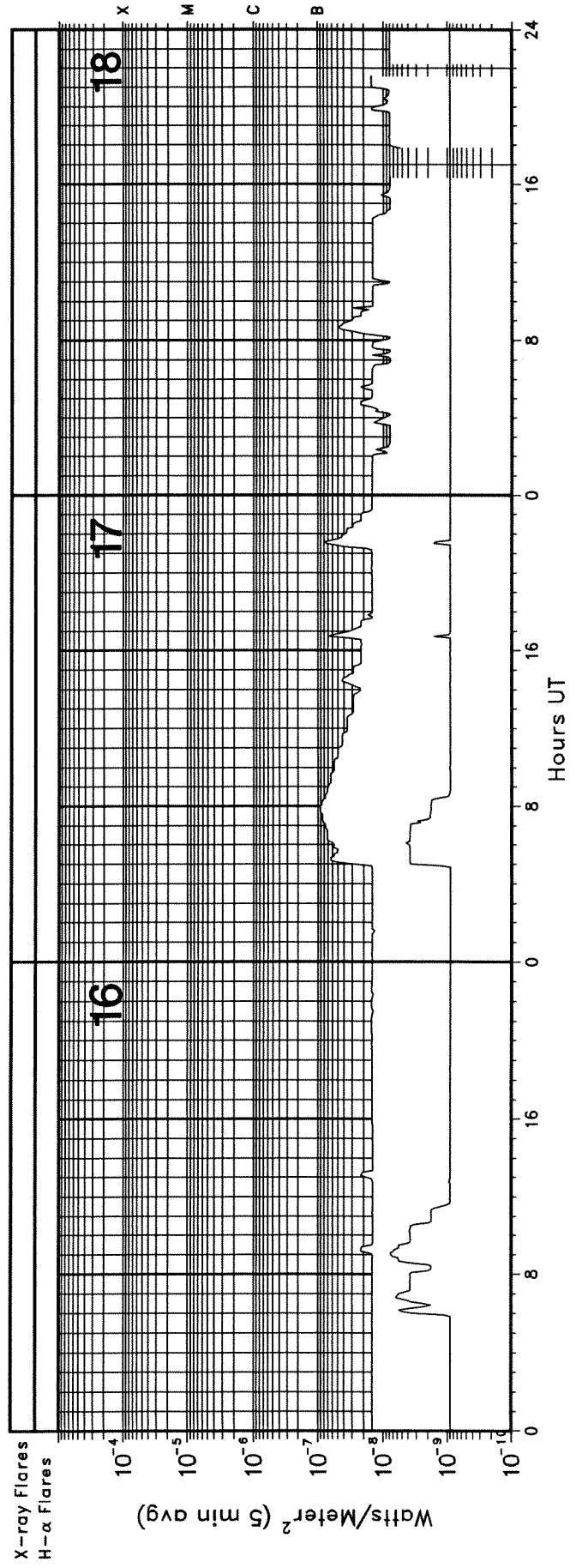
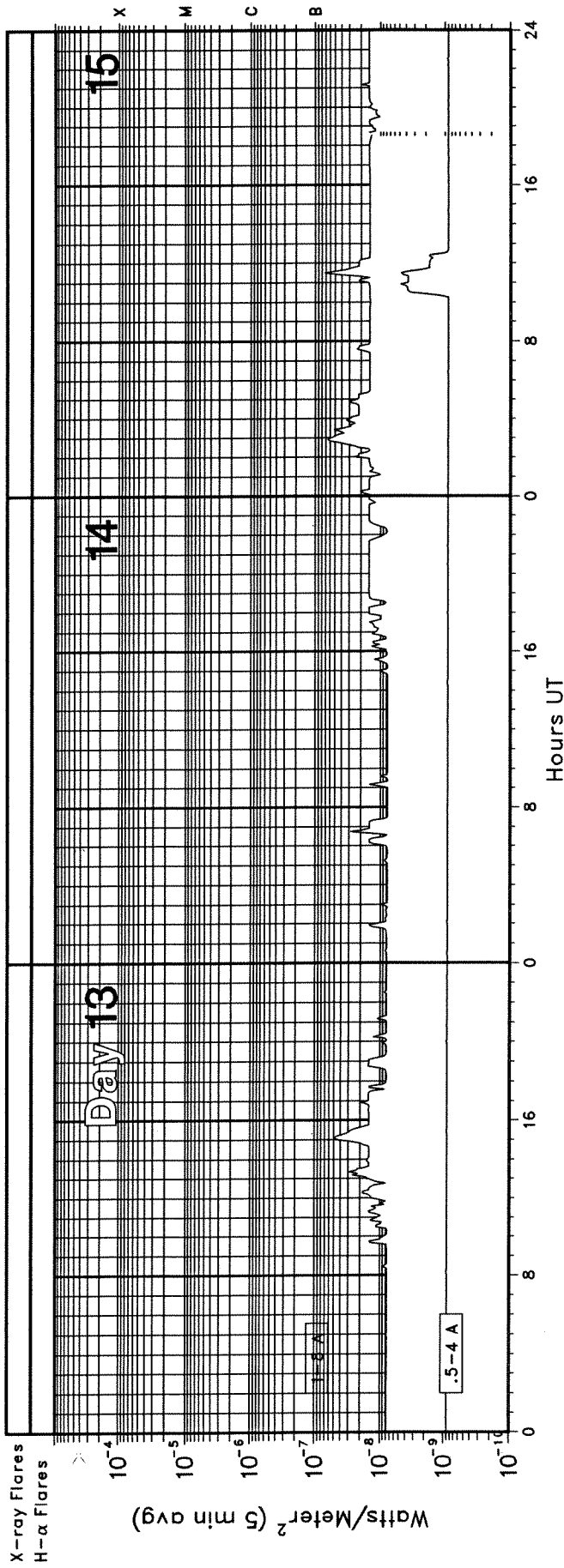


GOES X-RAY DETECTOR February 2006

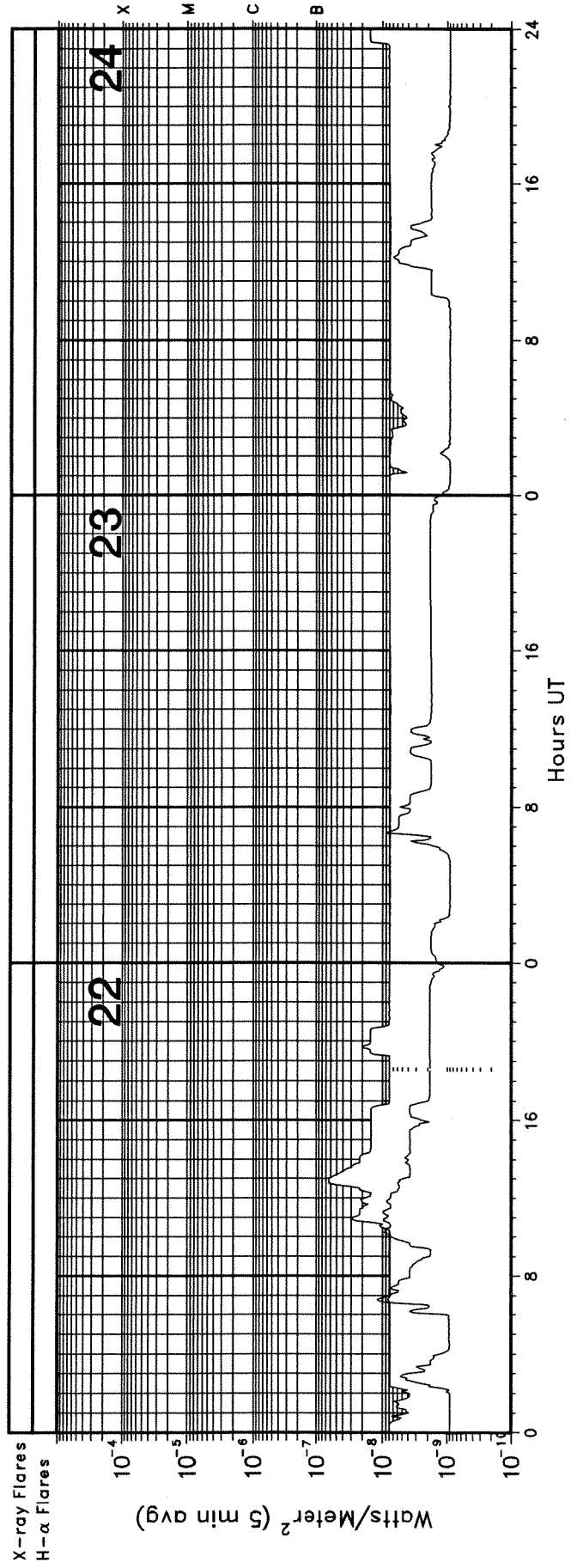
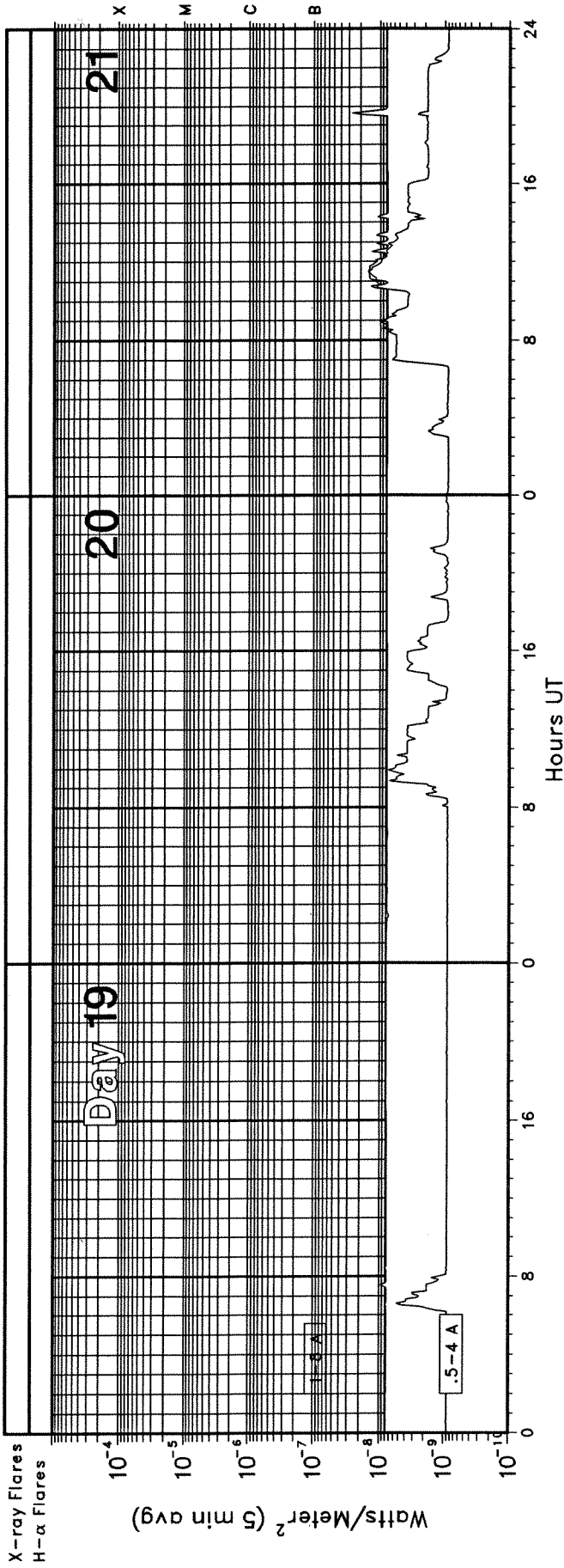


GOES X-RAY DETECTOR

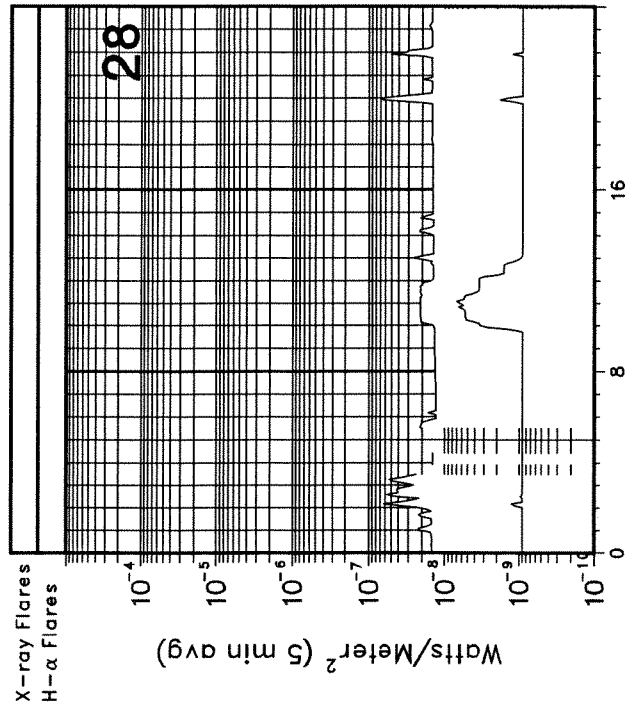
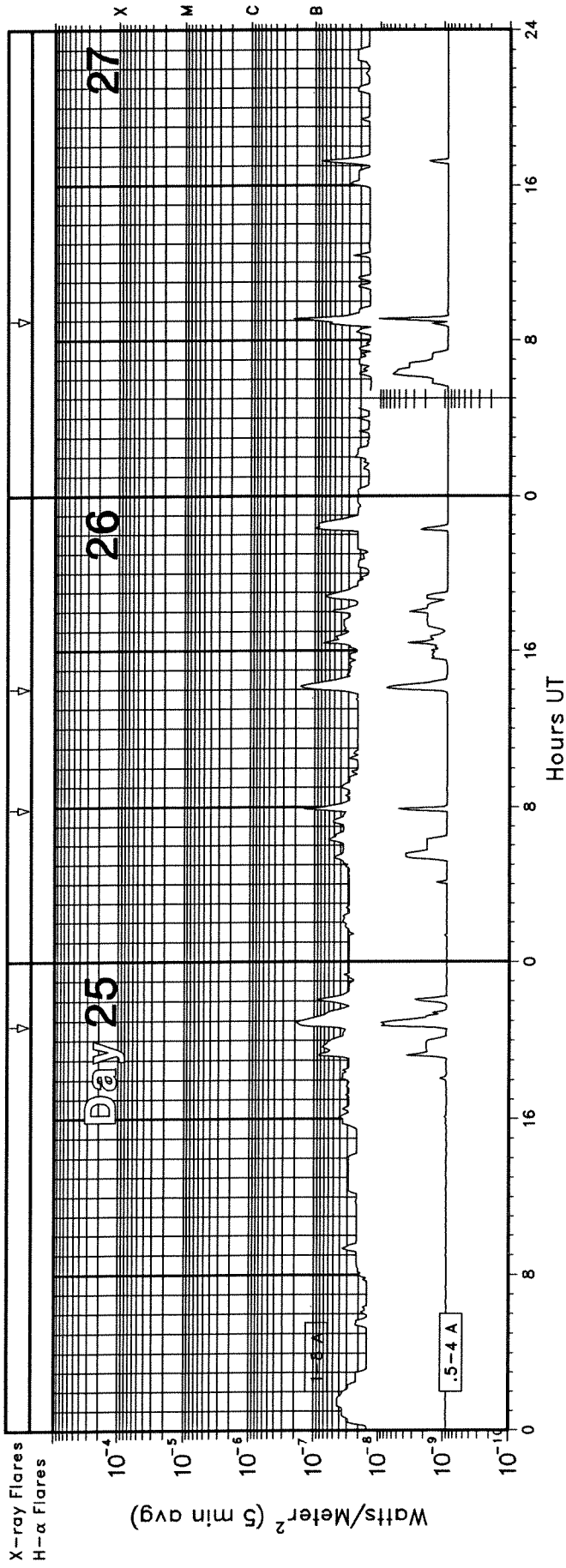
February 2006



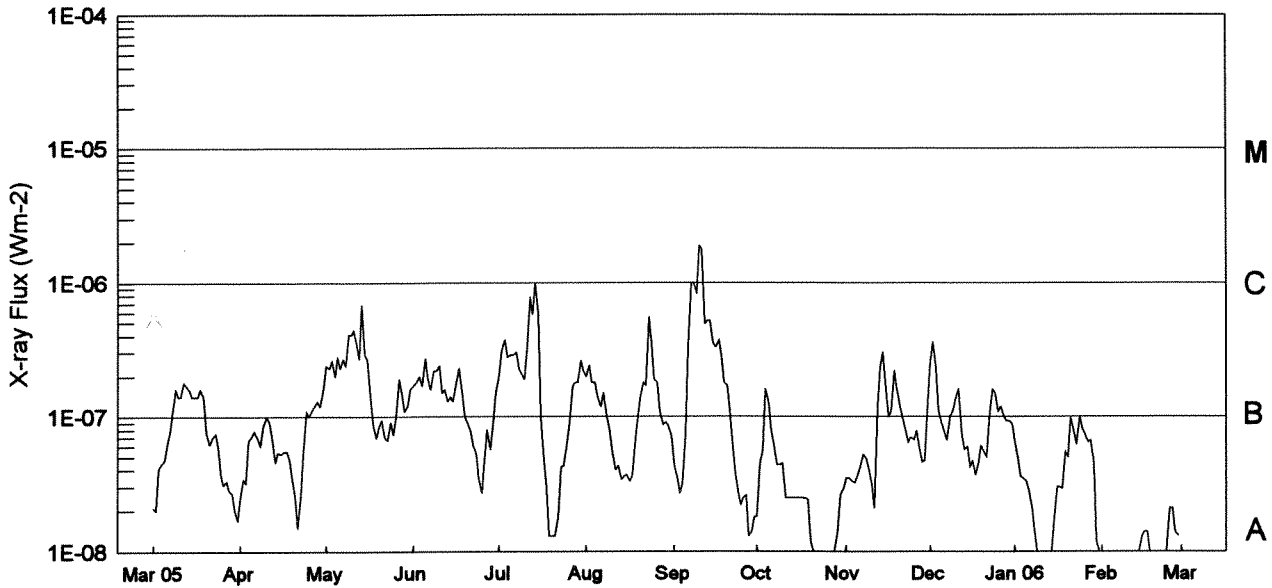
GOES X-RAY DETECTOR February 2006



GOES X-RAY DETECTOR February 2006



Preliminary GOES Satellite Daily X-Ray Background Mar 2005 - Feb 2006



Day	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 06	Feb
1	A2.1	A2.5	B2.4	B1.7	B2.0	B2.0	A4.4	A1.8	A3.5	B2.6	A5.8	<A1.0
2	A2.0	A3.4	B2.3	B1.8	B3.1	B2.4	A3.7	A4.6	A3.5	B3.6	A4.9	<A1.0
3	A4.1	A3.2	B2.6	B2.0	B3.7	B1.8	A2.7	A5.5	A3.3	B2.3	A3.6	<A1.0
4	A4.5	A6.6	B2.0	B1.7	B2.8	B1.8	A3.2	B1.6	A3.2	B1.1	A3.5	<A1.0
5	A4.7	A7.1	B2.8	B2.7	B2.9	B1.4	A7.6	B1.3	A3.6	A8.9	A3.3	<A1.0
6	A6.4	A7.8	B2.3	B1.9	B2.9	B1.2	B3.4	A8.0	A4.3	A7.7	A2.8	<A1.0
7	A7.8	A6.9	B2.7	B1.6	B3.0	B1.5	C1.0	A5.9	A5.2	A6.7	A2.1	<A1.0
8	B1.1	A6.1	B2.4	B2.2	B2.3	B1.0	C1.0	A4.4	A4.9	B1.0	A1.4	<A1.0
9	B1.6	A8.5	B4.1	B2.2	B2.1	A8.1	B8.3	A4.4	A4.1	B1.1	<A1.0	<A1.0
10	B1.4	B1.0	B4.1	B2.4	B1.9	A5.5	C1.9	A4.5	A3.1	B1.4	<A1.0	<A1.0
11	B1.4	A9.2	B4.4	B1.5	B3.2	A4.0	C1.8	A2.5	A2.1	B1.6	<A1.0	<A1.0
12	B1.8	A6.9	B3.4	B1.6	B7.8	A4.3	B4.9	A2.5	B1.2	A7.5	<A1.0	<A1.0
13	B1.7	A4.6	B2.7	B1.3	B5.8	A3.4	B5.2	A2.5	B2.4	A5.7	<A1.0	<A1.0
14	B1.6	A5.4	B6.8	B1.4	C1.0	A3.6	B5.2	A2.5	B3.0	A6.0	<A1.0	<A1.0
15	B1.4	A5.3	B2.9	B1.3	B5.9	A3.7	B3.5	A2.5	B1.6	A4.2	A1.7	A1.3
16	B1.4	A5.5	B2.7	B1.8	B1.0	A3.3	B3.3	A2.5	B1.0	A4.7	A3.0	A1.4
17	B1.4	A5.5	B1.4	B2.3	A5.4	A3.6	B3.7	A2.5	B1.1	A3.7	A3.0	A1.4
18	B1.6	A4.8	A8.8	B1.5	A2.9	A6.1	B2.8	A2.5	B2.2	A4.4	A2.9	<A1.0
19	B1.4	A3.5	A6.9	B1.0	A1.3	B1.0	B1.8	A2.4	B1.6	A6.1	A5.5	<A1.0
20	A7.7	A2.5	A8.4	A8.8	A1.3	B1.4	B1.7	A1.2	B1.2	A5.5	A5.0	<A1.0
21	A6.2	A1.5	A9.4	A7.8	A1.3	B1.8	B1.1	<A1.0	A9.8	A5.0	A9.8	<A1.0
22	A6.9	A2.6	A6.9	A6.1	A1.8	B1.7	A5.9	<A1.0	A8.2	B1.1	A7.8	<A1.0
23	A7.5	A5.5	A6.6	A5.3	A4.2	B5.5	A3.8	<A1.0	A6.4	B1.6	A6.2	<A1.0
24	A5.8	B1.1	A9.1	A3.4	A4.3	B3.5	A2.7	<A1.0	A7.0	B1.5	B1.0	<A1.0
25	A3.7	B1.0	A7.3	A2.7	A6.3	B1.9	A2.2	<A1.0	A6.7	B1.1	A8.2	A2.1
26	A3.1	B1.1	A9.9	A4.8	A8.9	B1.8	A2.5	<A1.0	A7.8	B1.2	A7.4	A2.1
27	A3.3	B1.2	B1.9	A8.0	B1.7	B1.1	A2.6	<A1.0	A5.7	B1.0	A6.5	A1.4
28	A2.8	B1.3	B1.5	A5.7	B1.8	A8.7	A1.3	<A1.0	A4.6	A9.3	A6.6	A1.3
29	A2.7	B1.2	B1.1	A8.6	B1.8	A9.1	A1.4	A1.4	A4.7	A9.3	A4.6	
30	A2.0	B1.6	B1.2	B1.5	B2.6	A8.5	A1.8	A2.6	B1.3	A8.8	A1.2	
31	A1.7		B1.6		B2.2	A7.1		A2.9		A6.5	<A1.0	

Levels below B1.0 are unreliable.

ACTIVE PROMINENCES AND FILAMENTS

15
Feb 06

FEBRUARY 2006

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
03	APR	0728E	0838D	N02	E81	02	9.4	2		8	9	E	LEAR		Normal Emission 1/3
03	EPL	0742E	0850D	S03	E90	02	10.0	2		8	9	E	SVTO		
11	DSF	1026U	2335U	S13	W11	02	10.6	2	05	0	0	E	LEAR		
15	DSF	1052U	2216U	S12	E51	02	19.3		07	0	0	E	LEAR		
15	EPL	1733	2054	S38	W90	02	8.4	1		5	6	E	HOLL		
15	BSL	2302E	0020	S41	W90	02	8.6	2		8	6	E	LEAR		
19	DSF	0217U	0239	N16	E50	02	22.9	3	02	0	0	E	LEAR		
20	DSF	1048U	2219U	S33	W18	02	19.0		05	0	0	E	LEAR		
20	DSF	1537U	1355U	S38	W23	02	18.8		08	0	0	E	SVTO		
20	DSF	1618	1950	S26	W26	02	18.6	3	05	6	9	E	HOLL		
27	DSF	0021U	1505U	S28	W40	02	23.9	3	17	0	0	E	HOLL		

ADF = Active Dark Filament
 AFS = Arch Filament System
 APR = Active Prominence
 ASR = Active Surge Region
 BSD = Bright Surge on Disk

BSL = Bright Surge on Limb
 CAP = CAP Prominence (Tandberg-Hanssen)
 CRN = Coronal Rain
 DSD = Dark Surge on Disk
 DSF = Disappearing Solar Filament

EPL = Eruptive Prominence on Limb
 LPS = Loops
 MDP = Mound Prominence
 SDF/DSF = Sudden Disappearing Filament
 SPY = Spray
 SSB = Solar Sector Boundary

For SOLAR SECTOR BOUNDARY REPORTS, the latitude field contains the Carrington longitude of the point where a neutral line crosses the solar equator. The comments field may contain the Carrington longitude and central meridian distance of two more intersection points.

The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
 The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

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

ABST = Abastumani
 ATHN = Athens
 BUCA = Bucharest
 CATA = Catania

HOLL = Holloman
 KHAR = Kharkov
 LEAR = Learmonth
 PALE = Palehua

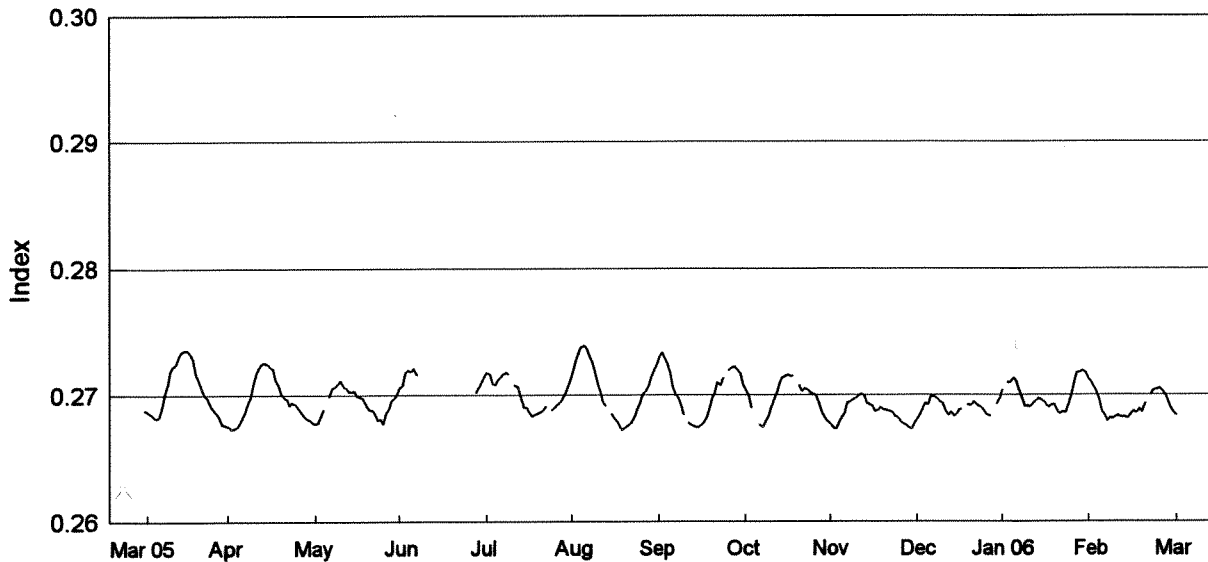
RAMY = Ramey
 SVTO = San Vito
 VORO = Voroshilov
 VALA = Valasske Mezirici
 WROC = Wroclaw

NOTE: The U.S. Air Force solar observing sites (HOLL, LEAR, RAMY, AND SVTO) have changed operational requirements and will only report the following: BSL, EPL, LPS, SPY, and DSF's.

NOAA Solar Ultraviolet (UV) MgII Core-to-Wing Index

Mar 2005 - Feb 2006

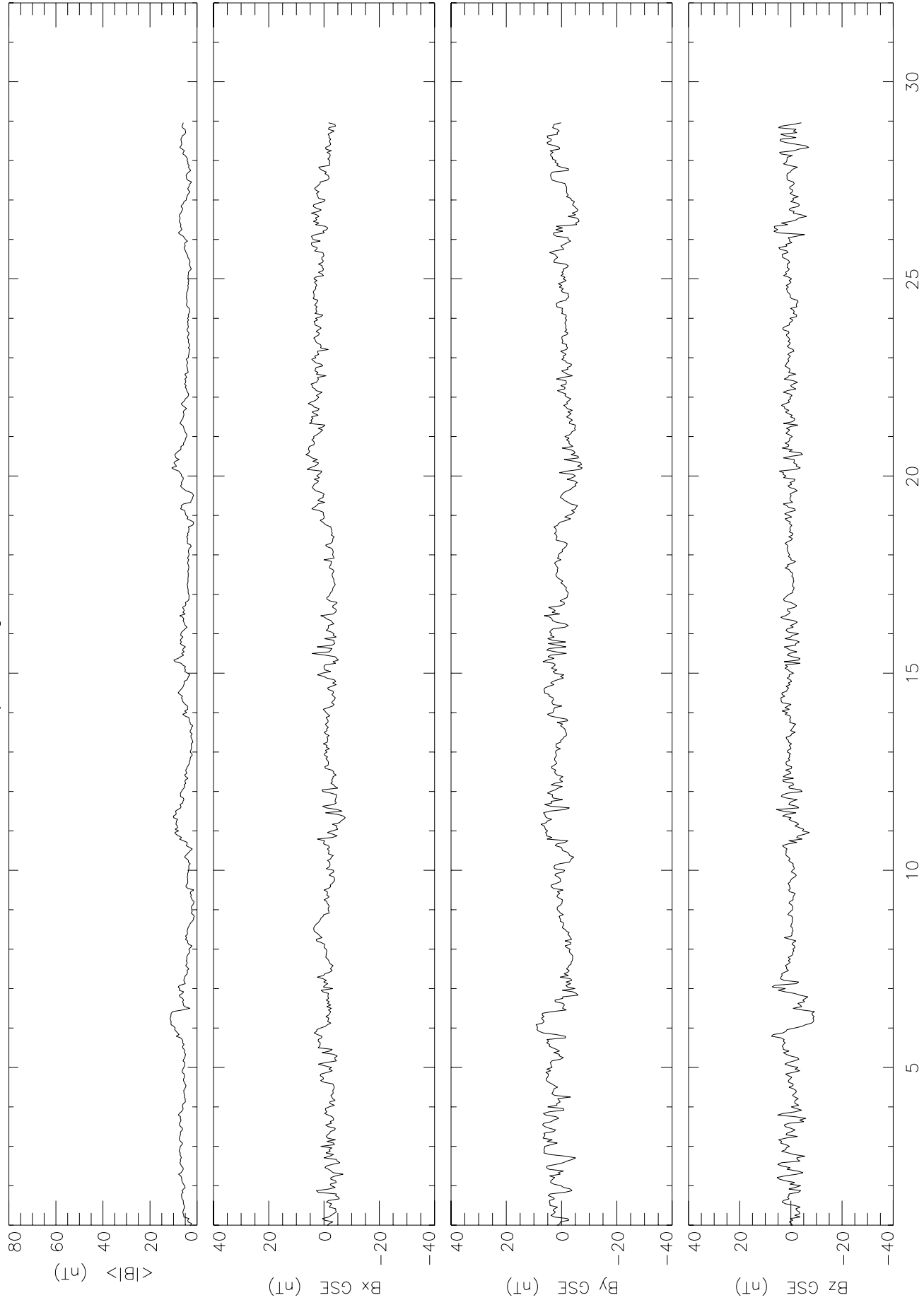
Version 9.1



Day	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 06	Feb
1	0.2675	0.2677	0.2706	0.2718	0.2715	0.2729	0.2704	0.2677	0.2680	0.2704	0.2713	0.2683
2	0.2673	0.2678	0.2707	0.2716	0.2726	0.2733	0.2699	0.2674	0.2684	—	0.2710	0.2680
3	0.2673	0.2685	0.2718	0.2710	0.2732	0.2729	0.2689	0.2673	0.2689	0.2710	0.2706	0.2676
4	0.2674	0.2689	0.2720	0.2708	0.2738	0.2725	—	0.2677	0.2694	0.2710	0.2702	0.2675
5	0.2677	—	0.2719	0.2712	0.2739	0.2717	—	0.2683	0.2692	0.2713	0.2695	0.2677
6	0.2681	0.2699	0.2721	0.2715	0.2737	0.2706	0.2676	0.2686	0.2699	0.2711	0.2687	0.2679
7	0.2687	0.2706	0.2715	0.2717	0.2730	0.2700	0.2674	0.2694	0.2699	0.2704	0.2683	0.2679
8	0.2693	0.2706	—	0.2718	0.2726	0.2698	0.2678	0.2694	0.2697	0.2697	0.2679	0.2678
9	0.2698	0.2709	—	0.2716	0.2718	0.2691	0.2684	0.2696	0.2695	0.2692	0.2682	0.2678
10	0.2708	0.2712	—	—	0.2708	0.2684	0.2690	0.2697	0.2693	0.2691	0.2681	0.2678
11	0.2718	0.2708	—	0.2708	0.2702	—	0.2697	0.2699	0.2688	0.2691	0.2683	0.2681
12	0.2722	0.2706	—	0.2707	0.2694	0.2678	0.2702	0.2701	0.2684	0.2693	0.2684	0.2681
13	0.2725	0.2703	—	0.2699	0.2691	0.2676	0.2709	0.2699	0.2686	0.2695	0.2682	0.2677
14	0.2726	0.2703	—	0.2690	—	0.2675	0.2714	0.2693	0.2683	0.2697	0.2683	0.2679
15	0.2725	0.2703	—	0.2690	0.2685	0.2674	0.2715	0.2693	0.2685	0.2696	0.2681	0.2681
16	0.2723	0.2700	—	0.2686	0.2681	0.2675	0.2716	0.2691	0.2688	0.2695	0.2684	0.2681
17	0.2721	0.2699	—	0.2683	0.2679	0.2678	0.2715	0.2687	0.2689	0.2692	0.2687	0.2686
18	0.2712	0.2697	—	0.2685	0.2674	0.2681	0.2715	0.2688	—	0.2690	0.2686	0.2693
19	0.2708	0.2692	—	0.2685	0.2672	0.2689	—	0.2690	0.2692	0.2692	0.2689	0.2693
20	0.2701	0.2689	—	0.2687	0.2674	0.2697	0.2708	0.2688	0.2692	0.2692	0.2686	0.2693
21	0.2699	0.2689	—	0.2688	0.2676	0.2702	0.2703	0.2688	0.2694	0.2687	0.2694	0.2693
22	0.2697	0.2685	—	0.2691	0.2677	0.2710	0.2705	0.2687	0.2692	0.2685	—	0.2689
23	0.2692	0.2680	—	—	0.2682	0.2707	0.2704	0.2686	0.2691	0.2687	0.2700	0.2690
24	0.2694	0.2681	—	0.2688	0.2688	0.2714	0.2702	0.2683	0.2689	0.2686	0.2704	0.2689
25	0.2693	0.2677	—	0.2690	0.2694	—	0.2701	0.2682	0.2685	0.2693	0.2704	0.2686
26	0.2690	0.2685	—	0.2692	0.2701	0.2720	0.2699	0.2679	0.2684	0.2700	0.2705	0.2684
27	0.2687	0.2689	—	0.2694	0.2702	0.2722	0.2692	0.2677	0.2683	0.2710	0.2703	0.2684
28	0.2684	0.2695	0.2702	0.2698	0.2707	0.2723	0.2686	0.2676	—	0.2717	0.2700	0.2684
29	0.2682	0.2697	0.2706	0.2702	0.2714	0.2720	0.2682	0.2674	0.2693	0.2718	0.2696	
30	0.2680	0.2700	0.2710	0.2709	0.2720	0.2717	0.2679	0.2673	0.2697	0.2719	0.2690	
31	0.2678		0.2715		0.2724	0.2708		0.2677		0.2717	0.2686	
Mean	0.2697	0.2694	0.2712	0.2700	0.2703	0.2703	0.2698	0.2686	0.2690	0.2699	0.2692	0.2630

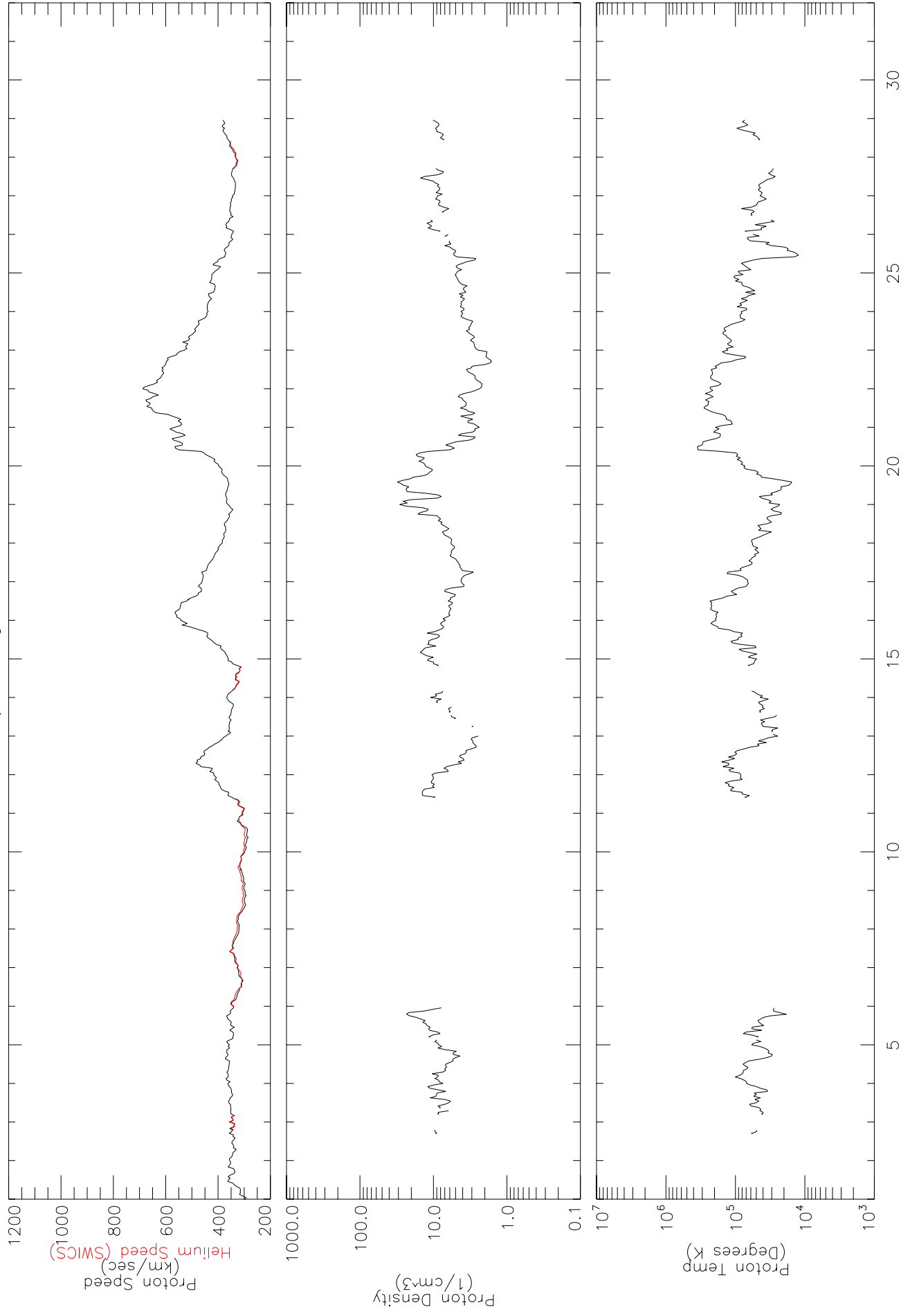
Data at: <http://www.sec.noaa.gov/ftpmenu/sbu.html>

ACE LEVEL2 DATA Interplanetary Magnetic Field
Hourly Averages for FEBRUARY 2006, from MAG



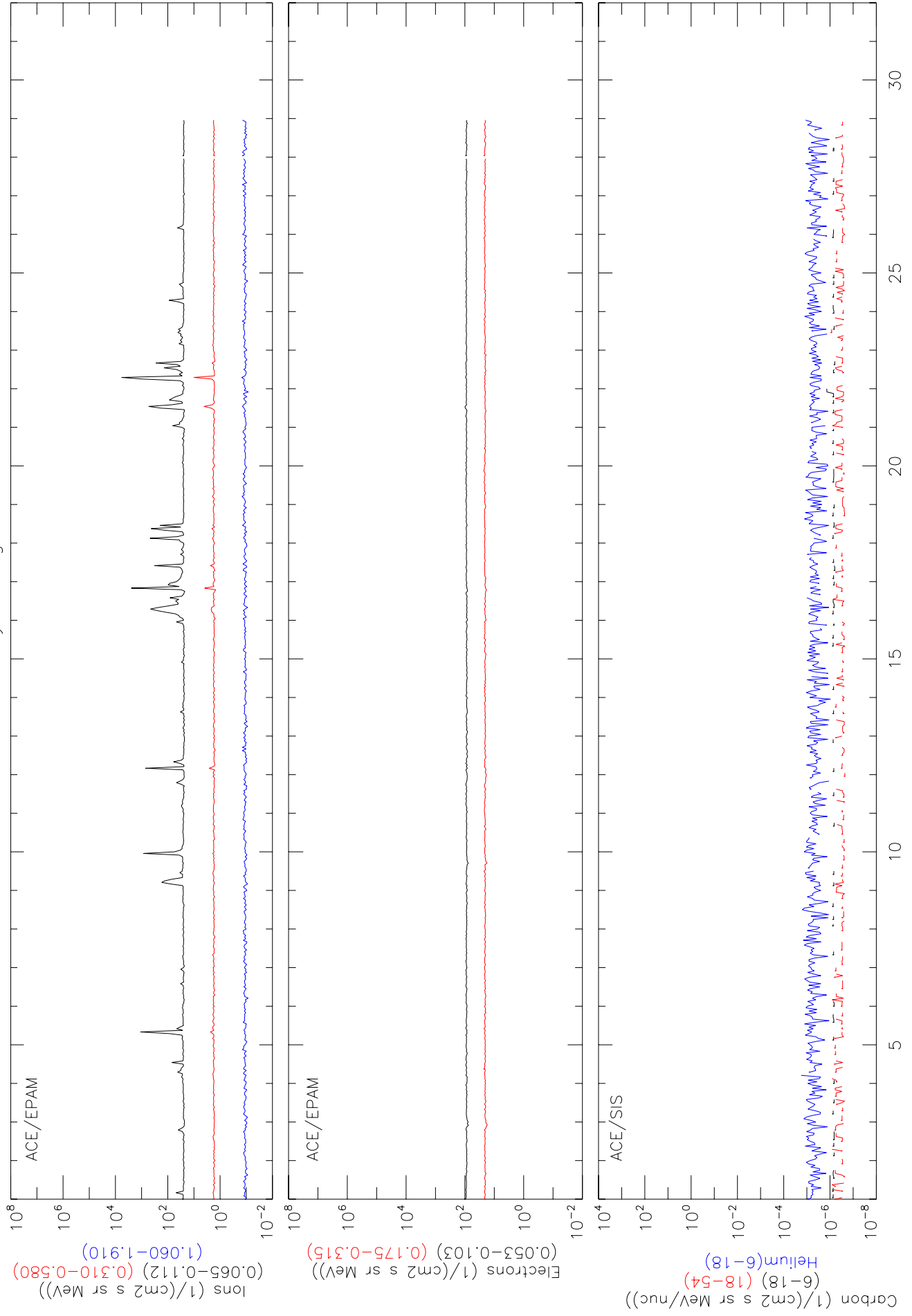
DAYS OF FEBRUARY 2006

ACE LEVEL2 DATA Solar Wind Plasma Hourly Averages for FEBRUARY 2006, from SWEPAM



DAYS OF FEBRUARY 2006

Solar Energetic Particles ACE LEVEL2 DATA Hourly Averages for FEBRUARY 2006



SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

<http://cdaw.gsfc.nasa.gov/>

Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA
FEBRUARY 2006

First C2 Appearance		Central Width			Linear Fit			-----2nd order speed-----	Accel	Measurement	Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s ²	Position Angle degree		
2006/02/01	00:30:04	240	39	44	----	----	----	-----	246	Very Poor Event	
2006/02/01	01:31:45	232	22	255	----	----	----	-----	230	Very Poor Event	
2006/02/01	17:54:04	70	27	240	172	316	306	2.9*	72	Poor Event	
2006/02/02	03:30:28	70	14	251	----	----	----	-----	72	Very Poor Event	
2006/02/02	06:30:05	301	47	370	333	409	635	12.6*	301	Poor; Only C2	
2006/02/02	11:30:05	77	12	245	----	----	----	-----	82	Very Poor Event	
2006/02/02	11:30:05	235	47	231	172	291	479	8.3*	234		
2006/02/02	18:54:04	109	20	325	----	----	----	-----	104	Very Poor; C2	
2006/02/02	21:54:04	117	13	409	----	----	----	-----	113	Very Poor Event	
2006/02/03	09:06:04	83	57	330	136	531	436	7.0	74		
2006/02/03	11:06:04	216	98	216	0	446	486	9.9*	236	Poor Event	
2006/02/04	03:54:07	85	27	314	300	329	330	0.8*	90		
2006/02/04	09:54:05	85	17	250	174	327	550	11.4*	86	Poor Event	
2006/02/05	00:54:04	113	102	133	0	357	295	3.7*	94		
2006/02/06	11:30:04	104	12	401	----	----	----	-----	103	Very Poor Event	
2006/02/07	04:06:04	106	10	356	----	----	----	-----	105	Very Poor Event	
2006/02/07	07:31:45	122	10	345	----	----	----	-----	124	Very Poor Event; 3 points;Only C2	
2006/02/08	03:30:04	95	9	366	----	----	----	-----	92	Very Poor Event	
2006/02/08	10:30:21	142	9	359	----	----	----	-----	140	Very Poor Event; 3 points;Only C2	
2006/02/08	14:30:05	145	12	215	----	----	----	-----	142	Very Poor;OnlyC2	
2006/02/08	20:30:04	108	17	315	328	302	282	-1.2*	107	Poor Event	
2006/02/09	04:06:04	266	63	282	----	----	----	-----	275	Very Poor;OnlyC2	
2006/02/09	22:30:04	90	11	303	----	----	----	-----	92	Very Poor Event; 3 points;Only C2	
2006/02/10	21:54:04	264	18	302	273	334	358	2.3*	264	Poor Event	
2006/02/10	23:30:05	Halo	360	471	401	555	514	4.3	166		
2006/02/12	13:54:04	63	14	183	----	----	----	-----	64	Very Poor;OnlyC2	
2006/02/12	14:54:04	44	14	434	----	----	----	-----	46	Very Poor;OnlyC2	
2006/02/13	00:54:04	126	16	278	257	298	332	2.0*	120	Poor Event	
2006/02/13	01:31:41	98	13	435	----	----	----	-----	100	Very Poor Event	
2006/02/13	04:54:04	121	19	264	----	----	----	-----	117	Very Poor Event	
2006/02/13	17:54:04	126	21	287	----	----	----	-----	116	Very Poor Event	
2006/02/13	21:08:00	61	18	647	----	----	----	-----	64	Very Poor Event	
2006/02/14	00:30:27	79	19	321	319	322	330	0.3*	83	Poor Event	
2006/02/14	18:30:04	260	37	304	168	435	465	7.9*	265	Poor Event	
2006/02/14	23:30:04	120	19	127	----	----	----	-----	121	Very Poor;OnlyC2	
2006/02/15	19:31:43	306	9	466	----	----	----	-----	300	Very Poor;OnlyC2	
2006/02/16	21:12:38	290	9	369	----	----	----	-----	287	Very Poor;OnlyC2	
2006/02/17	05:06:04	90	97	510	292	765	686	15.8	61		

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SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

<http://cdaw.gsfc.nasa.gov/>

Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA
FEBRUARY 2006

First C2 Appearance		Central Width			Linear Fit			-----2nd order speed-----	Accel	Measurement	Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s ²	Position Angle degree		
2006/02/18	00:30:04	59	21	318	----	----	----	-----	63	Very Poor Event	
2006/02/18	04:30:04	92	18	187	----	----	----	-----	89	Very Poor Event	
2006/02/18	04:30:04	62	19	158	----	----	----	-----	67	Very Poor Event	
2006/02/18	08:06:04	326	14	366	----	----	----	-----	320	Very Poor;OnlyC2	
2006/02/18	08:30:05	61	17	260	----	----	----	-----	70	Very Poor Event	
2006/02/18	11:54:04	273	37	242	----	----	----	-----	279	Very Poor Event	
2006/02/19	00:30:17	247	7	143	----	----	----	-----	250	Very Poor;OnlyC2	
2006/02/19	09:54:04	4	12	342	----	----	----	-----	9	Very Poor Event; 3 points;Only C2	
2006/02/19	14:54:04	5	12	443	----	----	----	-----	8	Very Poor Event; 3 points;Only C2	
2006/02/19	18:54:04	5	12	236	----	----	----	-----	10	VeryPoor;3points	
2006/02/20	01:54:04	117	52	254	284	220	83	-3.0*	112	Poor Event	
2006/02/20	14:30:04	83	13	190	----	----	----	-----	87	Very Poor Event	
2006/02/20	17:06:04	98	56	282	180	382	596	13.5*	98	Poor Event	
2006/02/20	20:06:17	102	50	163	----	----	----	-----	96	Very Poor Event	
2006/02/21	02:06:04	83	17	280	236	326	358	3.1*	88	Poor Event	
2006/02/21	06:06:05	114	46	205	248	160	0	-8.7*	105	Poor Event; C2	
2006/02/21	17:30:06	230	29	209	----	----	----	-----	232	Very Poor Event	
2006/02/22	04:30:04	114	13	218	----	----	----	-----	105	Very Poor Event	
2006/02/22	06:06:04	115	6	180	----	----	----	-----	109	Very Poor Event	
2006/02/22	13:31:44	248	35	531	714	336	0	-24.5*	257		
2006/02/22	19:55:16	96	61	352	277	428	458	5.4*	92		
2006/02/24	06:06:04	99	50	35	----	----	----	-----	96	Very Poor;OnlyC2	
2006/02/24	15:06:04	69	17	235	----	----	----	-----	67	Very Poor Event	
2006/02/25	08:06:04	70	13	226	----	----	----	-----	72	Very Poor Event	
2006/02/25	17:06:48	293	14	316	243	386	568	11.1*	288	Poor Event	
2006/02/25	19:31:59	94	7	211	----	----	----	-----	94	Very Poor Event	
2006/02/26	02:06:04	315	54	213	241	183	0	-4.9*	314	Poor Event; C2	
2006/02/26	02:30:05	278	28	283	310	257	168	-2.8*	276		
2006/02/26	12:54:04	274	17	324	----	----	----	-----	271	Very Poor Event	
2006/02/26	19:54:49	202	7	602	----	----	----	-----	206	Very Poor Event; 3 points;Only C2	
2006/02/27	07:54:04	69	24	262	----	----	----	-----	71	Very Poor Event	
2006/02/28	14:05:05	239	29	370	408	333	343	-2.0	248		
2006/02/28	17:05:04	241	39	226	192	259	283	1.8*	245		

CME heights are measured at the fastest segment of the leading edge

PA= Position Angle measured from Solar North in degrees (Counter clockwise)

ONLINE -- Click on date to view java script movies -- <http://cdaw.gsfc.nasa.gov/>

ONLINE -- Click on time to see height-time digital files

ONLINE -- Click on speed to view height-time plot

Numbers in 2nd order fit columns correspond to the speed at the last height of measurement and at a distance of 20 solar radii.