

AUGUST 2009 NUMBER 780 - Part II

Solar-Geophysical Data comprehensive reports



Data for February 2009

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

NGDC On-Line Addresses:

World-Wide Web <http://www.ngdc.noaa.gov>
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NATIONAL OCEANIC AND
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NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL
DATA CENTER

BOULDER,
COLORADO



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Data for February 2009

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NATIONAL GEOPHYSICAL DATA CENTER

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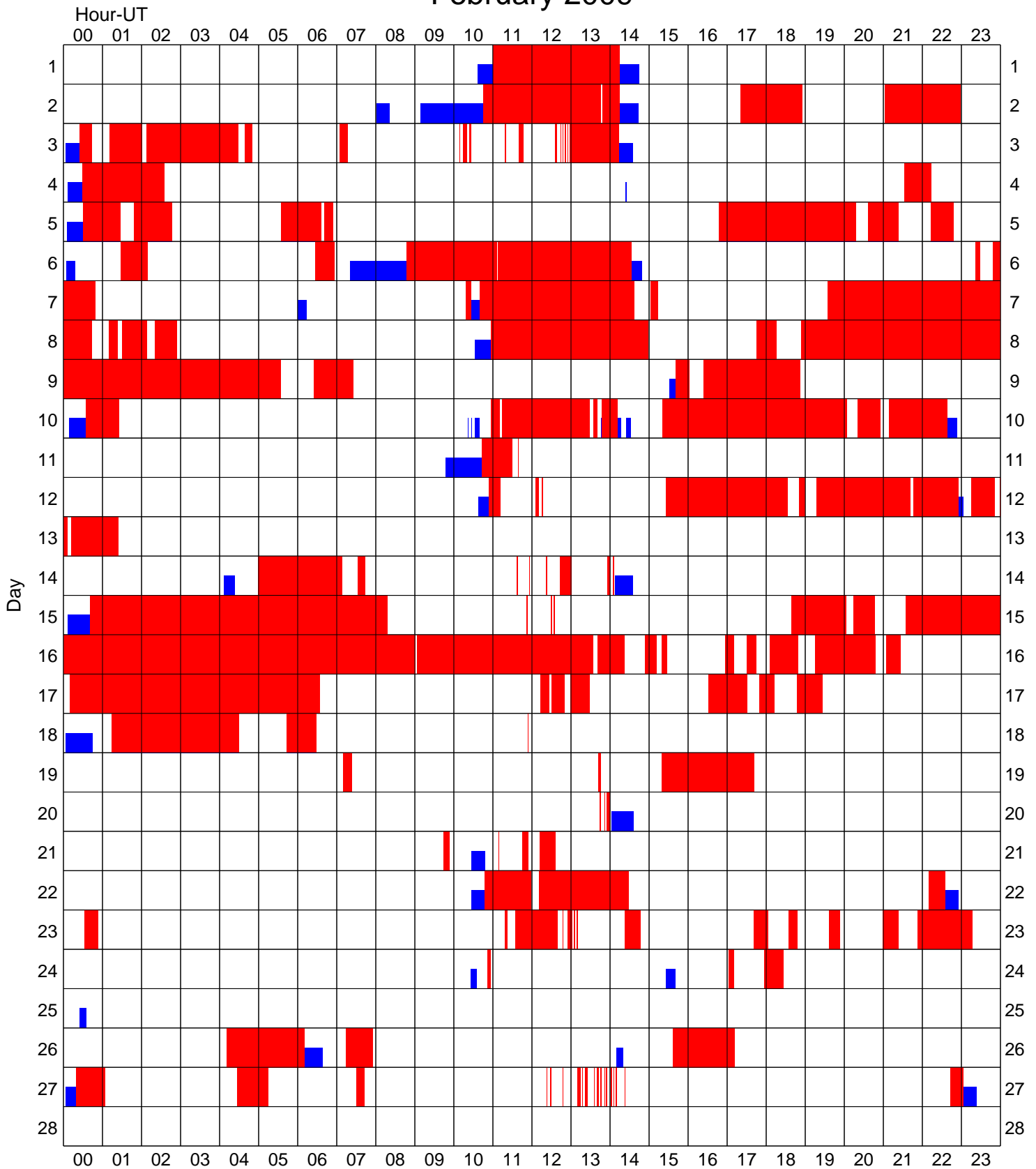
Number 780 Part II

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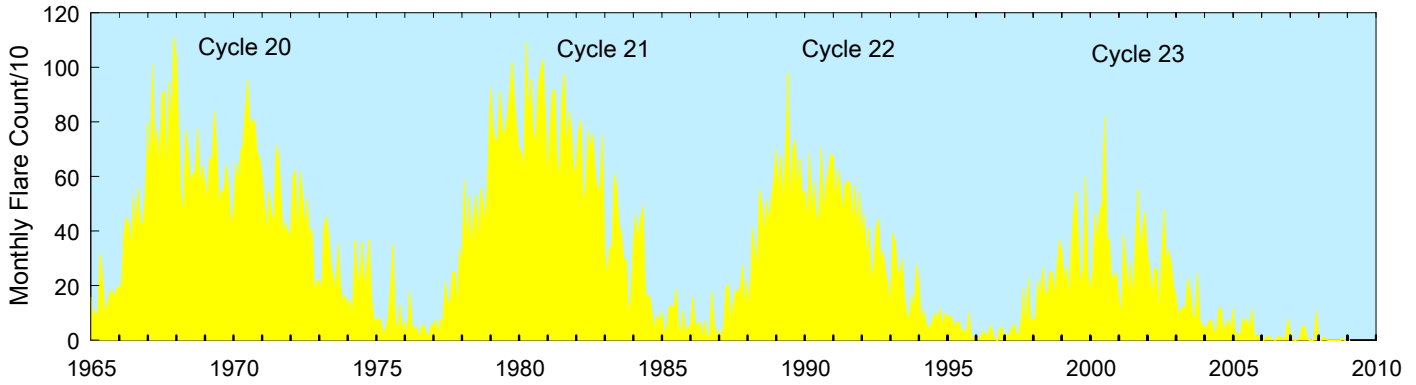
February 2009



█ Times of no flare patrol of any kind.
█ Times of no cinematographic flare patrol.

Stations participating: Holloman, Learmonth, SanVito, Kanzelhoehe..

Monthly Counts of Grouped Solar Flares Jan 1965 - Feb 2009



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	11	16	4	2	1	17	11	3	12	78	159
2007	29	2	1	2	9	47	53	9	0	0	2	107	261
2008	2	0	12	4	0	0	0	0	0	0	6	0	24
2009	0	0											0

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 2009

Feb 09

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
07	245 LEAR	4 S/F	1009.0	1011.0	3.0	170.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

LEAR = Learmonth

SGMR = Sagamore Hill

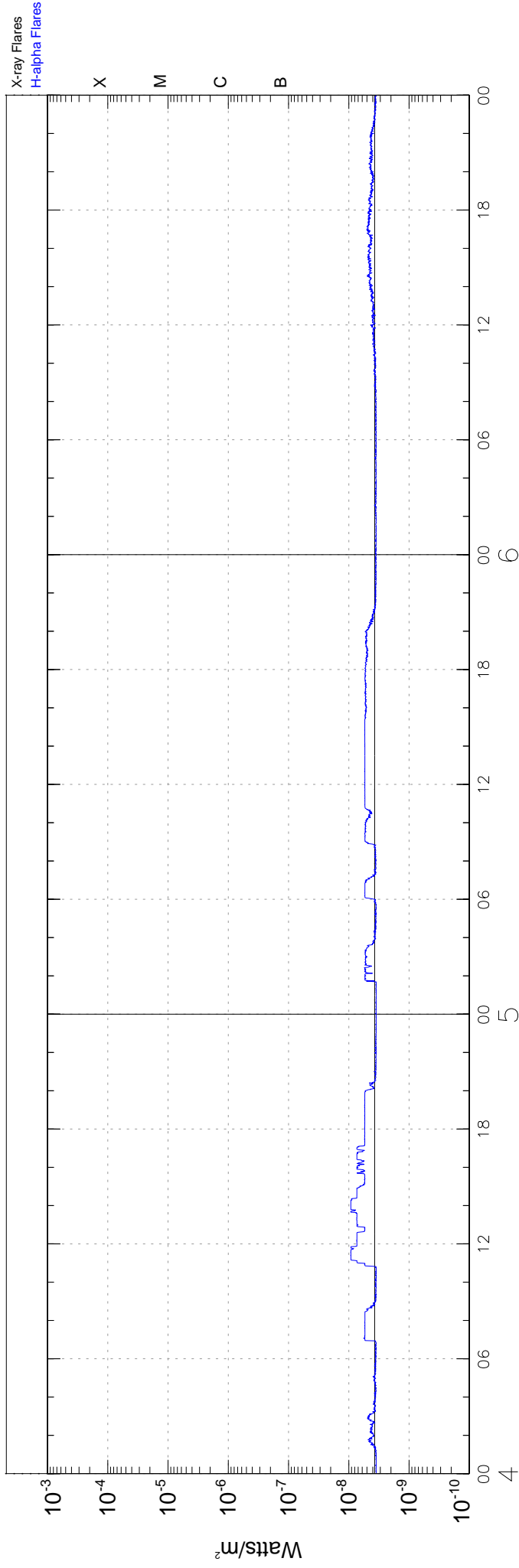
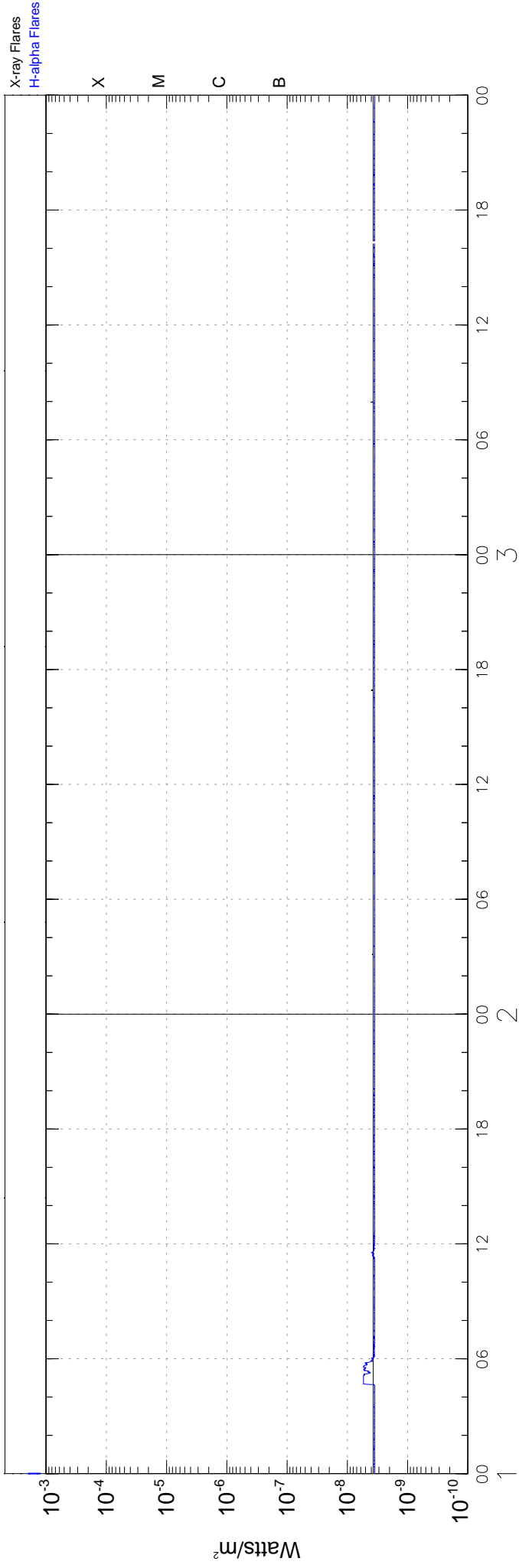
SVTO = San Vito

Explanation of Type Code:

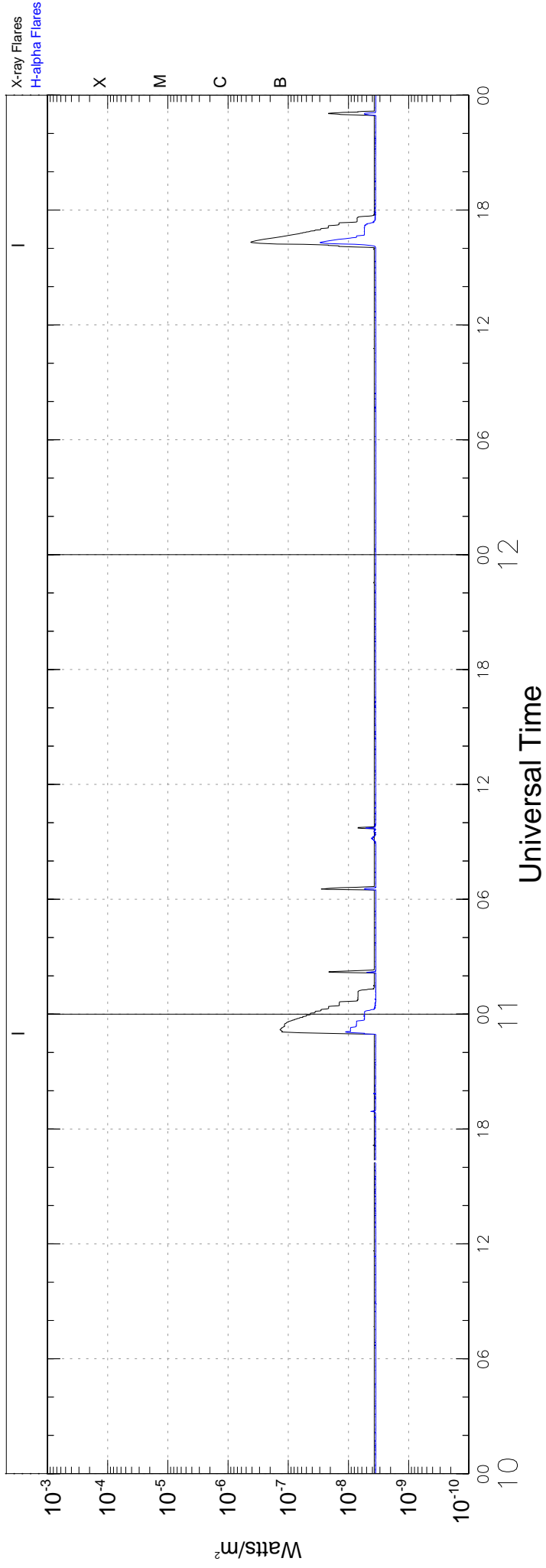
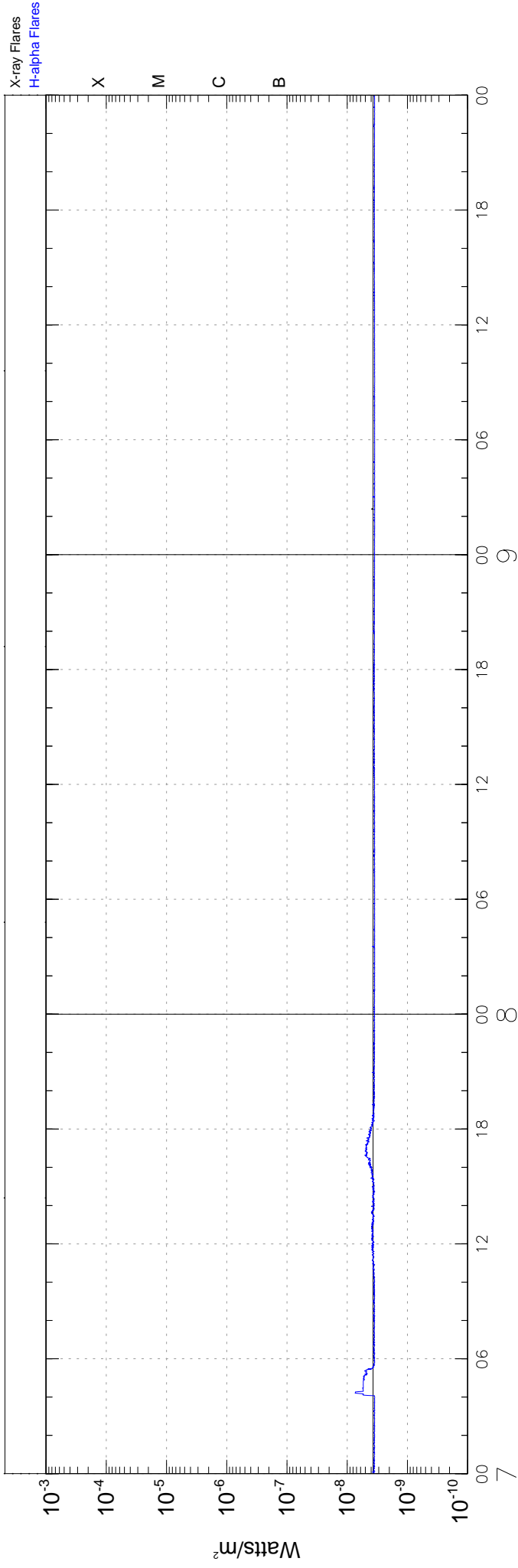
1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple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

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

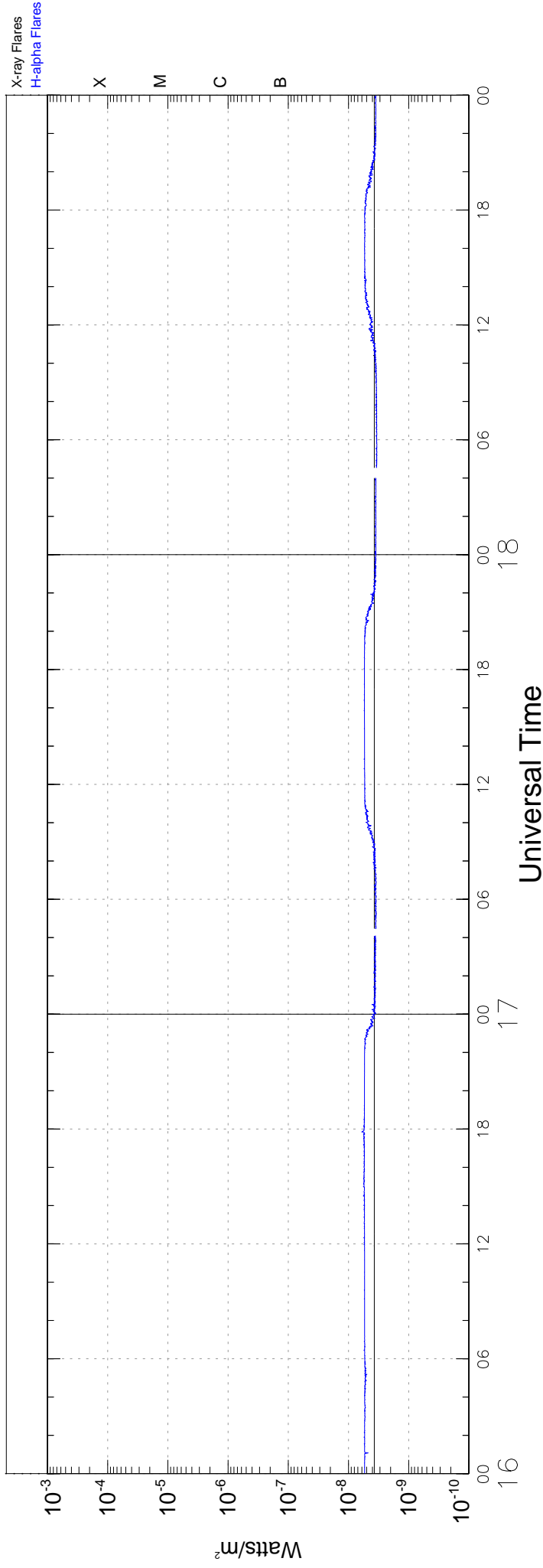
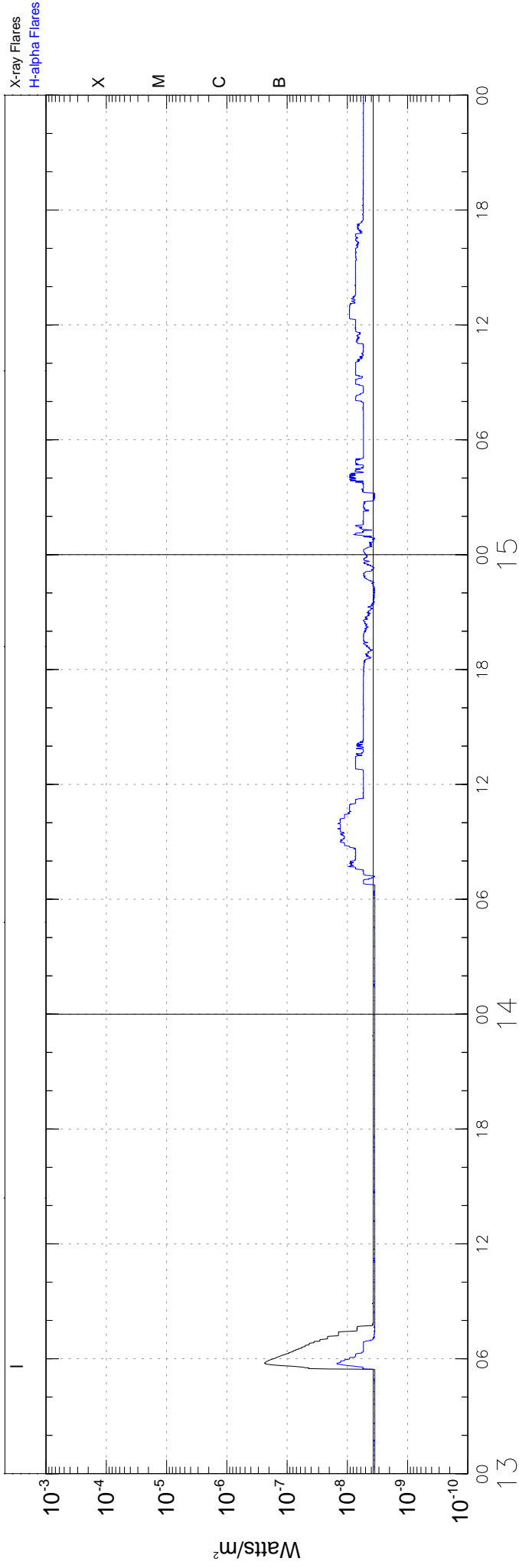
GOES-10 Solar X-Rays (1-Minute Averages) February 2009



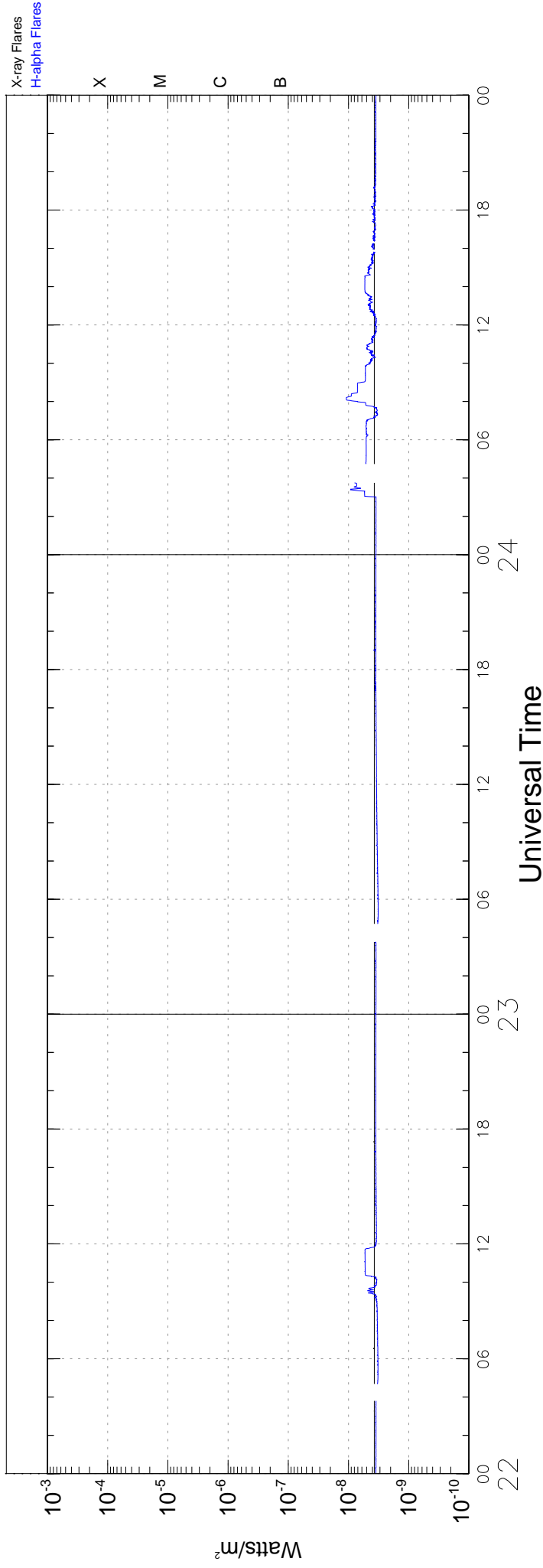
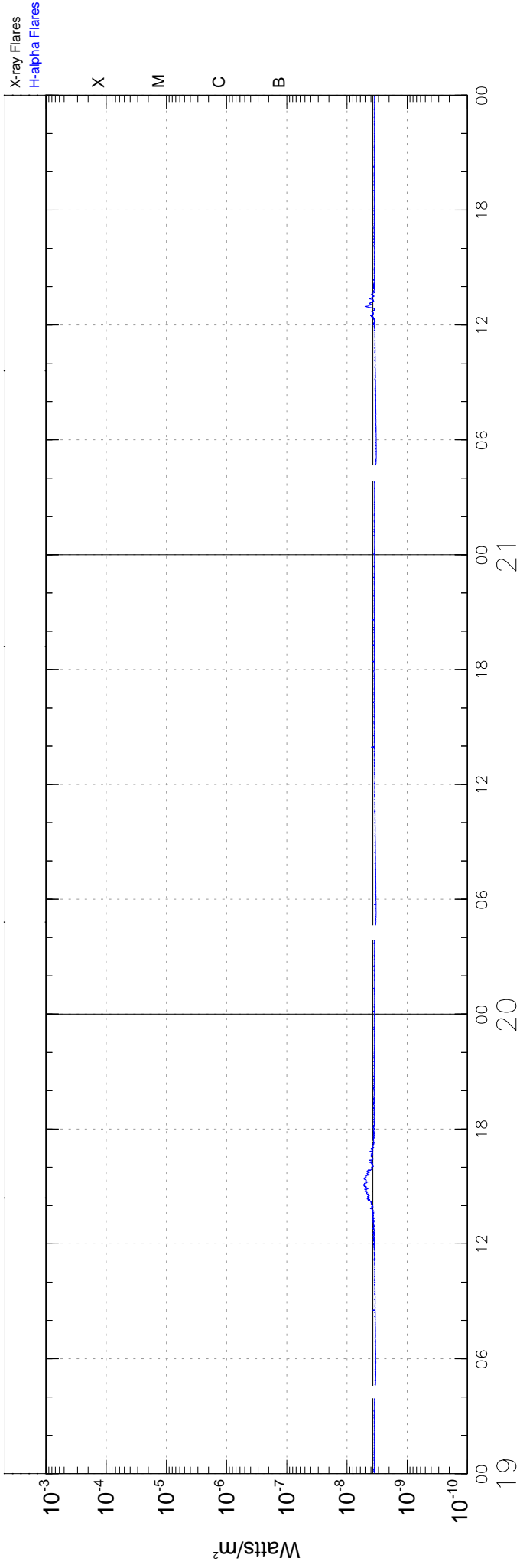
GOES-10 Solar X-Rays (1-Minute Averages) February 2009



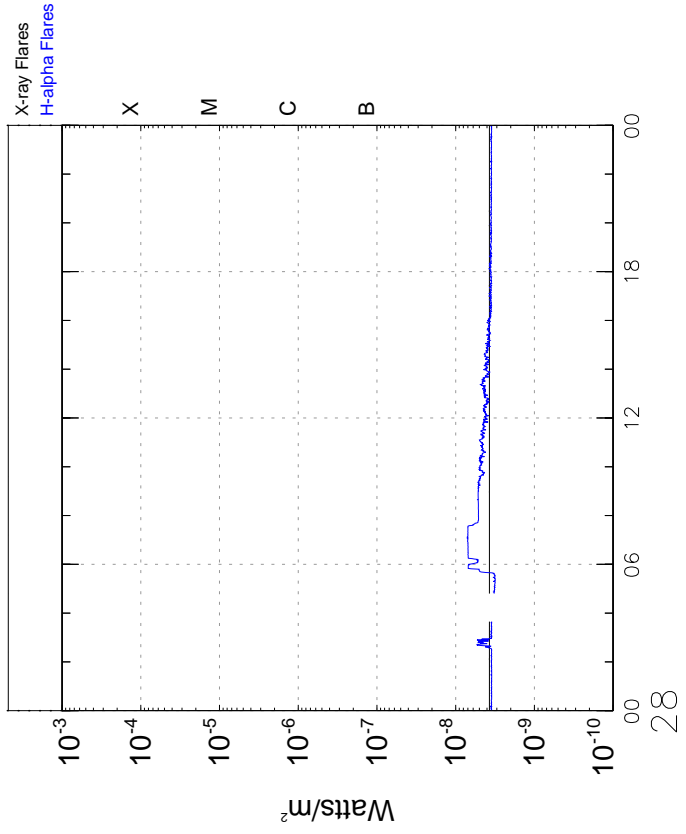
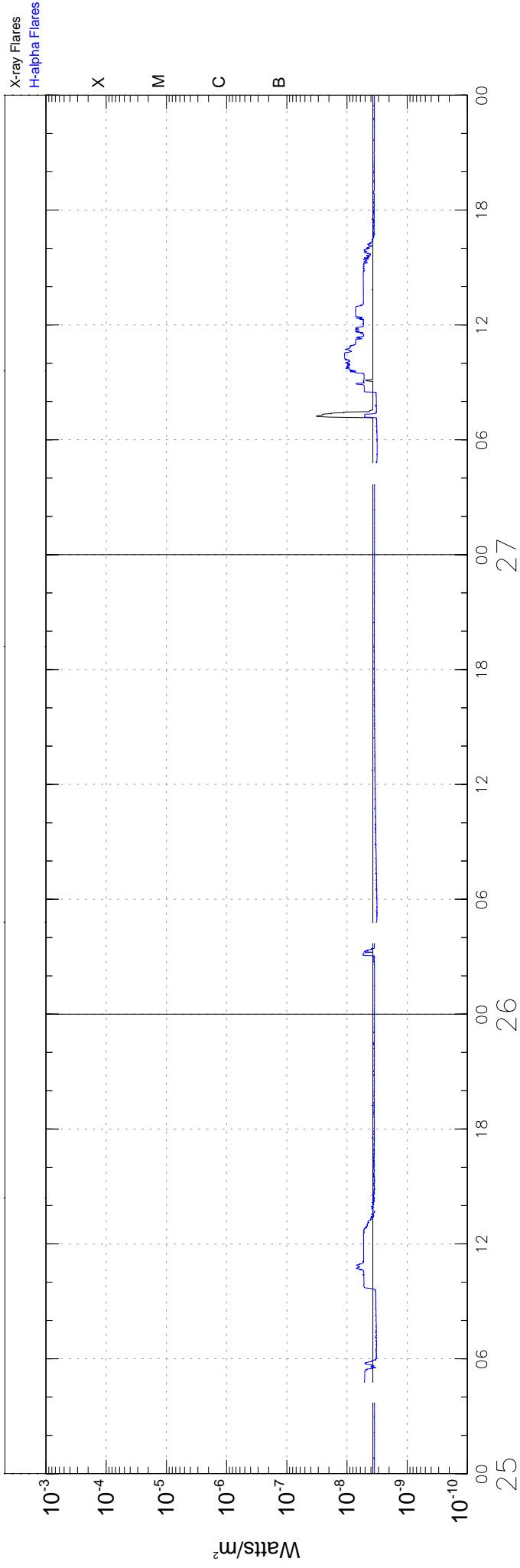
GOES-10 Solar X-Rays (1-Minute Averages) February 2009



GOES-10 Solar X-Rays (1-Minute Averages) February 2009



GOES-10 Solar X-Rays (1-Minute Averages) February 2009

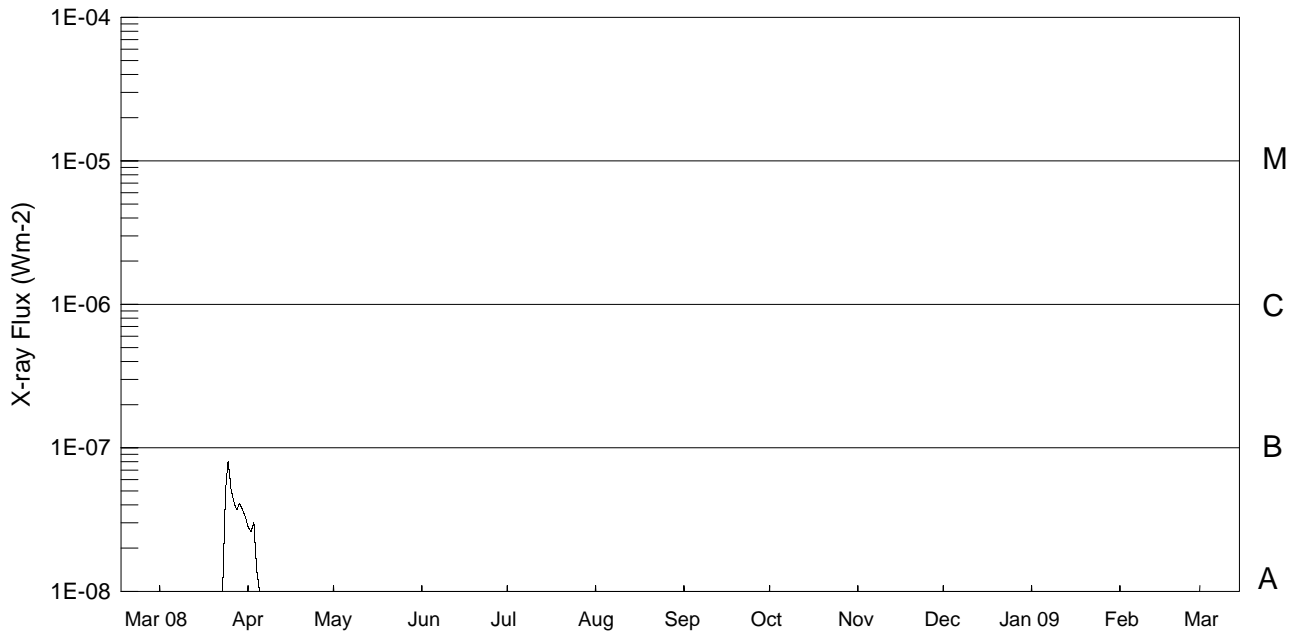


Universal Time

Preliminary GOES Satellite Daily X-Ray Background

Mar 2008 - Feb 2009

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Feb 09



Day	Mar 08	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 09	Feb
1	<A1.0	A2.8	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
2	<A1.0	A2.6	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
3	<A1.0	A3.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
4	<A1.0	A1.4	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
5	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
6	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
7	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
8	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
9	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
10	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
11	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
12	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
13	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
14	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
15	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
16	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
17	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
18	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
19	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
20	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
21	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
22	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
23	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
24	A5.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
25	A8.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
26	A5.2	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
27	A4.2	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
28	A3.7	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
29	A4.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
30	A3.7	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
31	A3.3	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0

Levels below B1.0 are unreliable.

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Feb 09

ACTIVE PROMINENCES AND FILAMENTS

FEBRUARY 2009

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
26	DSF	1535U	1013U	S43	W38	02	23.5		06	0	0	E	SVTO		
27	DSF	2358U	1423U	S38	W46	02	24.3		09	0	0	E	HOLL		

ADF = Active Dark Filament BSL = Bright Surge on Limb EPL = Eruptive Prominence on Limb
AFS = Arch Filament System CAP = CAP Prominence (Tandberg-Hanssen) LPS = Loops
APR = Active Prominence CRN = Coronal Rain MDP = Mound Prominence
ASR = Active Surge Region DSD = Dark Surge on Disk SDF/DSF = Sudden Disappearing Filament
BSD = Bright Surge on Disk DSF = Disappearing Solar 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.

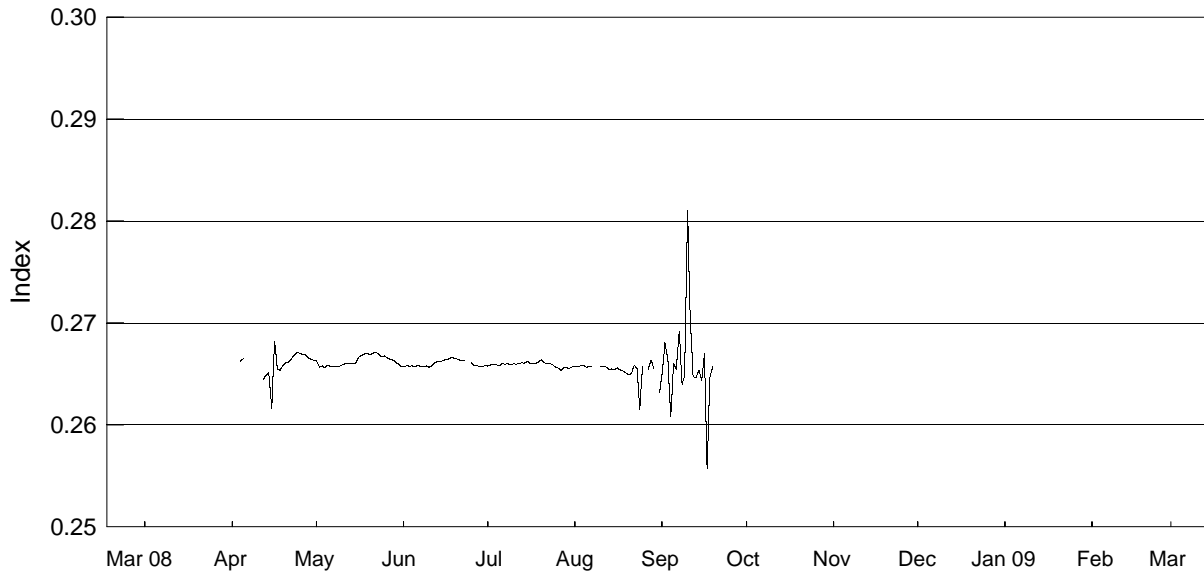
The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

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

ABST = Abastumani HOLL = Holloman RAMY = Ramey
ATHN = Athens KHAR = Kharkov SVTO = San Vito
BUCA = Bucharest LEAR = Learmonth VORO = Voroshilov
CATA = Catania PALE = Palehua 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.

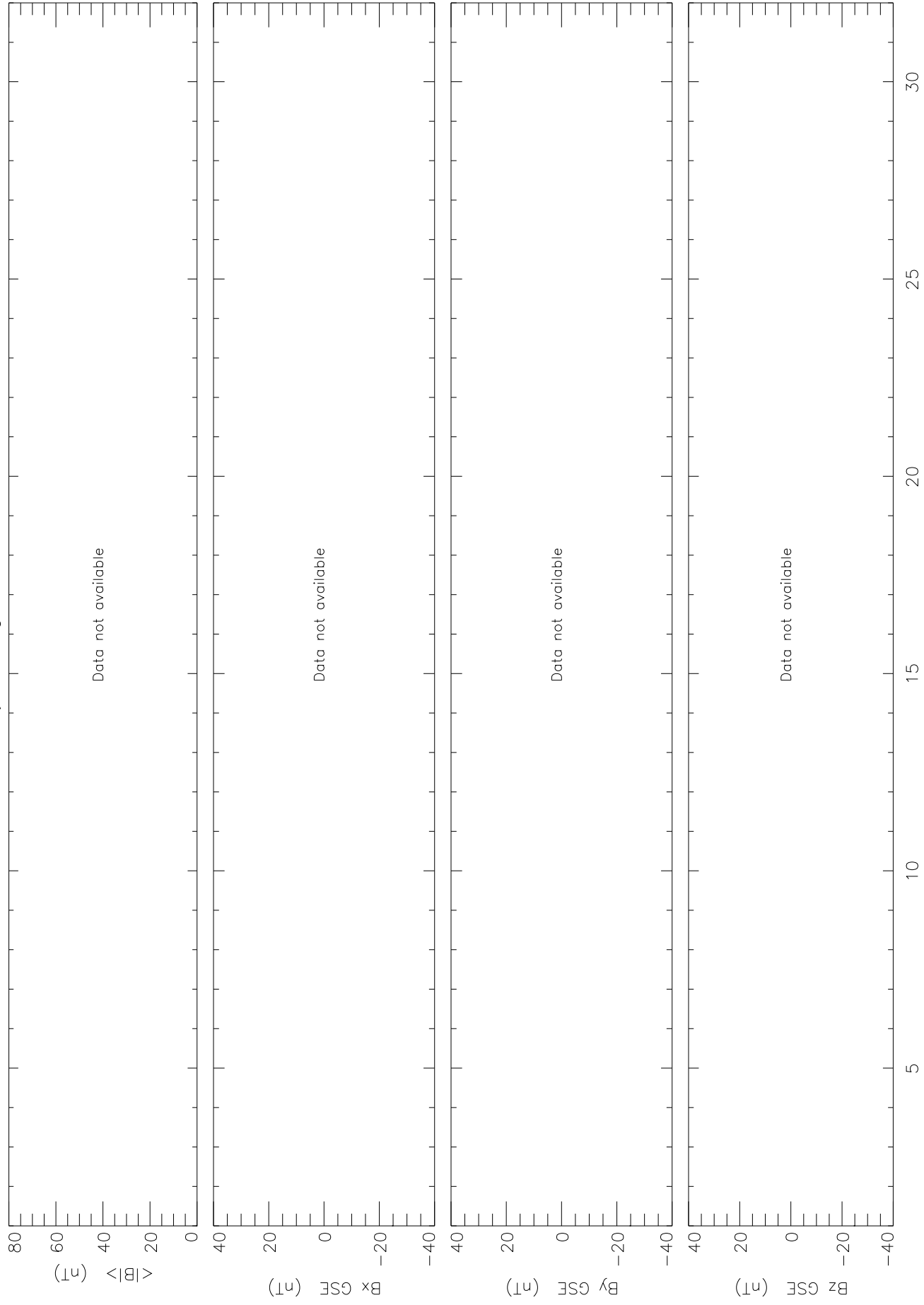
NOAA Solar Ultraviolet (UV) MgII Core-to-Wing Index Mat 2008 - Feb 2009 Version 9.1



Day	Mar 08	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 09	Feb
1	---	---	0.2663	0.2657	0.2658	0.2657	0.2650	---	---	---	---	---
2	---	---	0.2657	0.2658	0.2659	0.2657	0.2681	---	---	---	---	---
3	---	---	0.2658	0.2658	0.2660	0.2658	0.2664	---	---	---	---	---
4	---	0.2663	0.2656	0.2658	0.2659	0.2658	0.2608	---	---	---	---	---
5	---	0.2665	0.2659	0.2657	0.2658	0.2657	0.2661	---	---	---	---	---
6	---	---	0.2657	0.2659	0.2661	0.2657	0.2655	---	---	---	---	---
7	---	---	0.2657	0.2658	0.2659	0.2657	0.2692	---	---	---	---	---
8	---	---	0.2657	0.2658	0.2660	---	0.2640	---	---	---	---	---
9	---	---	0.2658	0.2658	0.2659	---	0.2649	---	---	---	---	---
10	---	---	0.2659	0.2657	0.2660	0.2658	0.2810	---	---	---	---	---
11	---	---	0.2660	0.2658	0.2660	0.2657	0.2704	---	---	---	---	---
12	---	0.2644	0.2660	0.2661	0.2660	0.2657	0.2648	---	---	---	---	---
13	---	0.2649	0.2660	0.2663	0.2661	0.2654	0.2646	---	---	---	---	---
14	---	0.2651	0.2660	0.2662	0.2661	0.2655	0.2654	---	---	---	---	---
15	---	0.2617	0.2661	0.2663	0.2663	0.2654	0.2644	---	---	---	---	---
16	---	0.2682	0.2667	0.2665	0.2660	0.2656	0.2671	---	---	---	---	---
17	---	0.2655	0.2668	0.2665	0.2660	0.2654	0.2557	---	---	---	---	---
18	---	0.2654	0.2670	0.2667	0.2660	0.2653	0.2647	---	---	---	---	---
19	---	0.2658	0.2670	0.2665	0.2662	0.2651	0.2658	---	---	---	---	---
20	---	0.2661	0.2669	0.2665	0.2664	0.2649	---	---	---	---	---	---
21	---	0.2662	0.2670	0.2664	0.2661	0.2650	---	---	---	---	---	---
22	---	0.2665	0.2672	0.2664	0.2660	0.2659	0.2637	---	---	---	---	---
23	---	0.2669	0.2670	0.2664	0.2660	0.2656	---	---	---	---	---	---
24	---	0.2671	0.2667	---	0.2659	0.2615	---	---	---	---	---	---
25	---	0.2670	0.2668	0.2661	0.2657	0.2657	0.2561	---	---	---	---	---
26	---	0.2669	0.2666	0.2659	0.2656	---	---	---	---	---	---	---
27	---	0.2669	0.2664	0.2659	0.2654	0.2654	---	---	---	---	---	---
28	---	0.2666	0.2664	0.2657	0.2656	0.2664	---	---	---	---	---	---
29	---	0.2664	0.2662	0.2657	0.2656	0.2655	---	---	---	---	---	---
30	---	0.2664	0.2662	0.2658	0.2656	---	---	---	---	---	---	---
31	---	---	0.2660	---	0.2656	0.2632	---	---	---	---	---	---
Mean	---	0.2660	0.2663	0.2660	0.2659	0.2651	0.2654	---	---	---	---	---

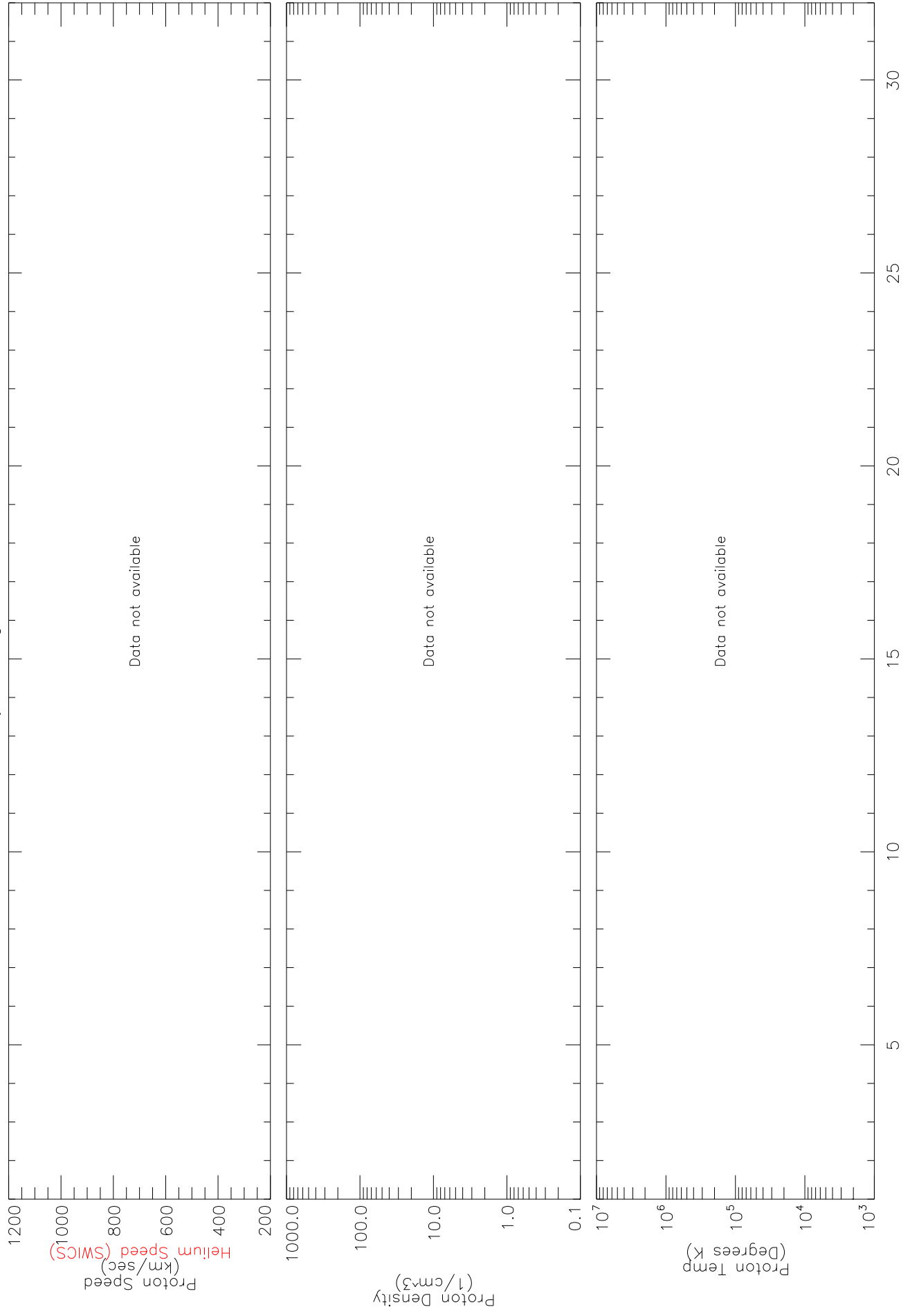
Data at: <http://www.swpc.noaa.gov/ftpmenu/sbuw.html>

ACE LEVEL2 DATA
Interplanetary Magnetic Field
Hourly Averages for FEBRUARY 2009, from MAG



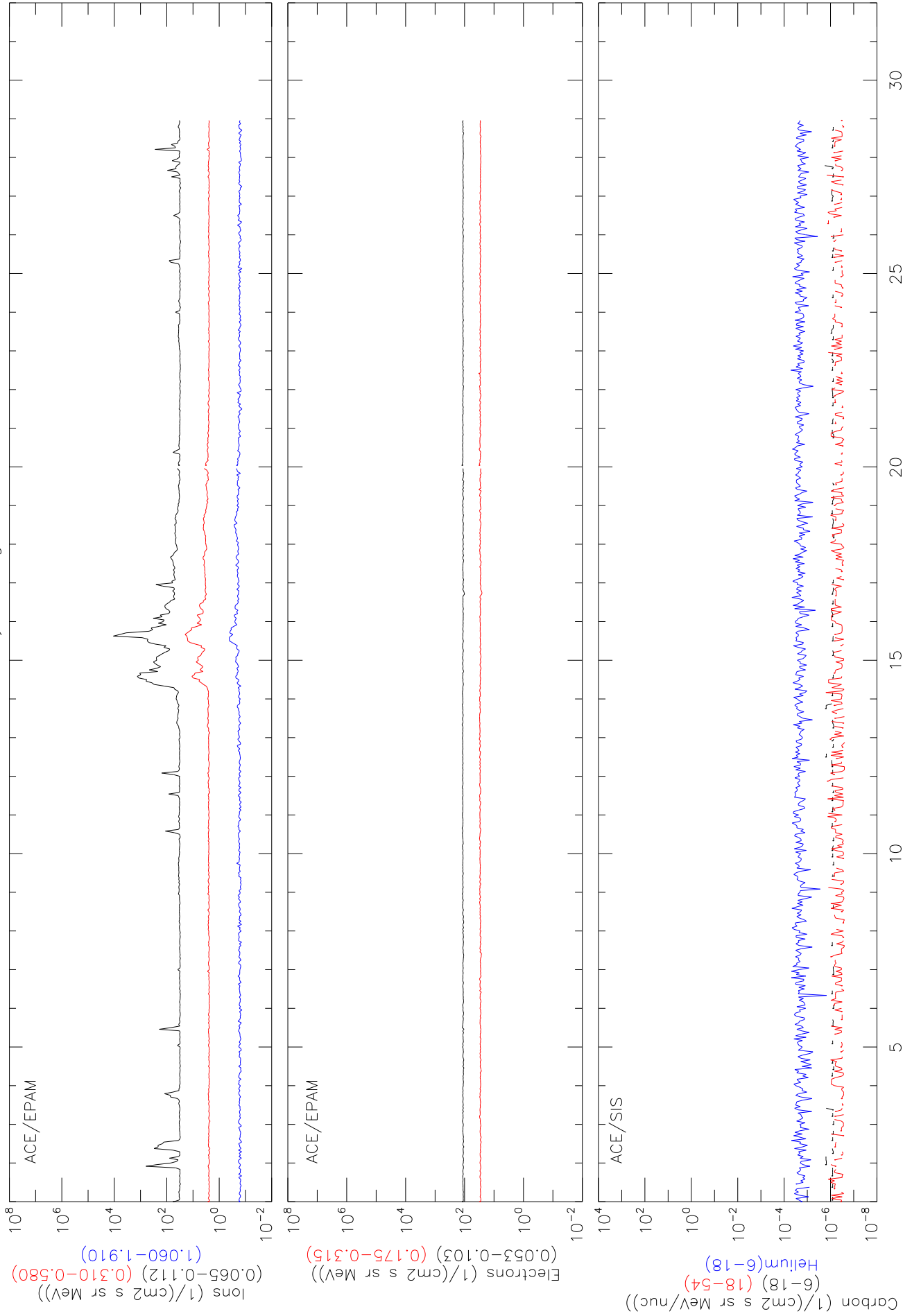
DAYS OF FEBRUARY 2009

ACE LEVEL2 DATA Hourly Averages for FEBRUARY 2009, from SWEPAM



DAYS OF FEBRUARY 2009

Solar Energetic Particles ACE LEVEL2 DATA Hourly Averages for FEBRUARY 2009



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 2009

First C2 Appearance		Central Width			Linear Fit			-----2nd order speed-----	Accel	Measurement	
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	Remarks	
2009/02/01	02:30:03	99	56	202	197	207	217	0.3*	96	Poor Event	
2009/02/01	10:34:04	282	10	184	135	233	541	11.9*	282	Very Poor Event	
2009/02/02	06:30:03	318	11	266	420	109	0	-61.0*	310	Very Poor Event; Only C2	
2009/02/02	18:30:03	182	8	421	48	938	3188	456.5*	181	Very Poor; 3 pts; Only C2	
2009/02/02	21:30:03	182	9	392	102	711	2560	281.9*	180	Very Poor; 3 pts; Only C2	
2009/02/03	22:18:03	262	11	325	246	411	927	38.0*	268	Very Poor Event; Only 3 point	
2009/02/04	07:31:39	6	10	578	174	1019	3079	409.5*	11	Very Poor; 3 pts; Only C2	
2009/02/05	21:30:06	91	25	151	151	150	148	-0.0*	98	Poor Event	
2009/02/06	03:06:03	291	25	447	368	532	536	6.3*	283		
2009/02/06	23:30:04	40	7	465	91	876	2945	363.6*	45	Very Poor; 3 pts; Only C2	
2009/02/08	05:00:03	103	39	260	304	217	0	-10.7*	96	Poor Event	
2009/02/08	05:12:03	296	12	554	504	605	967	28.4*	291	Poor Event; Only C2	
2009/02/09	07:12:03	94	49	219	188	250	314	2.6*	94		
2009/02/09	13:36:03	288	10	275	291	259	0	-7.2*	283	Very Poor Event; Only C2	
2009/02/11	06:42:03	86	39	282	184	376	338	7.4*	88	Poor Event; Only C3	
2009/02/11	06:42:03	264	53	330	132	518	440	13.4*	263	Poor Event; Only C3	
2009/02/15	23:54:23	307	11	279	271	286	370	2.7*	301	Very Poor Event; Only C2	
2009/02/16	01:54:03	261	7	173	176	169	127	-0.7*	260	Very Poor Event	
2009/02/16	06:30:03	252	6	279	206	358	443	7.3*	251	Very Poor Event	
2009/02/16	10:06:03	156	4	181	55	307	1457	87.4*	153	Very Poor; 3 pts; Only C2	
2009/02/17	12:30:03	252	13	261	241	283	346	3.1*	256	Very Poor Event	
2009/02/18	02:30:03	63	53	192	0	490	446	8.2*	68		
2009/02/18	14:06:04	195	9	302	298	307	408	3.2*	196	Very Poor; 3 pts; Only C2	
2009/02/18	23:54:05	306	74	122	74	171	468	9.3*	322	Very Poor Event; Only C2	
2009/02/19	00:54:03	272	30	194	222	165	0	-7.9*	272	Very Poor Event; Only C2	
2009/02/19	03:30:03	69	22	179	162	196	221	0.9*	77	Poor Event	
2009/02/19	08:30:03	239	12	135	130	139	183	0.7*	242	Poor Event; Only C2	
2009/02/19	17:45:46	60	19	226	98	357	347	4.6*	67	Poor Event	
2009/02/20	10:21:25	6	9	431	455	407	0	-12.4*	8	Very Poor Event; Only C2	
2009/02/21	00:56:26	267	80	376	276	475	402	9.3	258	Only C3	
2009/02/21	11:13:22	335	4	412	319	505	1086	47.8*	330	Poor Event; Only C2	
2009/02/21	13:23:09	252	9	248	246	250	250	0.1*	258		
2009/02/22	12:06:03	116	67	88	93	83	0	-0.5*	101	Poor Event; Only C2	
2009/02/23	05:30:03	267	7	340	242	438	693	17.6*	271	Poor Event	
2009/02/23	07:54:05	270	12	292	230	358	483	7.5*	272	Poor Event	
2009/02/23	12:30:04	71	11	282	200	369	578	12.2*	81	Poor Event	
2009/02/23	19:12:28	275	36	260	243	277	393	4.2*	276	Very Poor Event	
2009/02/23	22:06:03	61	8	283	370	195	0	-33.5*	64	Very Poor Event; Only C2	
2009/02/24	00:54:03	160	6	233	220	248	490	7.9*	159	Very Poor; 3 pts; Only C2	
2009/02/24	12:54:05	327	4	254	172	343	1079	47.6*	321	Very Poor; 3 pts; Only C2	

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FEBRUARY 2009

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2009/02/24	14:30:03	286	13	126	48	198	265	3.0*	286	Very Poor Event	
2009/02/24	23:30:03	73	17	413	325	499	737	18.0*	74	Poor Event	
2009/02/25	02:30:03	96	38	195	173	216	376	4.6*	96	Poor Event; Only C2	
2009/02/25	13:31:39	4	6	514	669	363	0	-89.1*	3	Very Poor Event; Only C2	
2009/02/26	16:54:03	67	11	333	332	335	357	0.7*	72	Poor Event; Only C2	
2009/02/26	17:30:03	230	8	264	369	160	0	-41.1*	238	Very Poor Event; Only C2	
2009/02/26	20:58:41	343	8	246	74	422	1409	82.6*	341	Very Poor Event; Only C2	
2009/02/27	09:06:03	298	49	222	203	241	367	3.8*	304	Very Poor Event; Only C2	
2009/02/27	18:54:03	291	33	192	127	260	263	2.2*	292		
2009/02/28	02:30:03	334	10	143	135	151	262	2.1*	327	Very Poor; 3 pts; Only C2	
2009/02/28	09:06:20	332	6	325	201	451	1439	87.4*	325	Very Poor; 3 pts; Only C2	

* Acceleration is uncertain due to either poor height measurement or a small number of height-time measurements.