

MARCH 2009 NUMBER 775 - Part II

Solar-Geophysical Data comprehensive reports



Data for September 2008

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NATIONAL ENVIRONMENTAL SATELLITE,
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NATIONAL GEOPHYSICAL
DATA CENTER

BOULDER,
COLORADO



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MARCH 2009 NUMBER 775 - Part II

Solar-Geophysical Data comprehensive reports

Data for September 2008

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NATIONAL GEOPHYSICAL DATA CENTER

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SOLAR-GEOPHYSICAL DATA

Number 775

(Issued in Two Parts)

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CONTENTS

PART I (PROMPT REPORTS)	Page
DETAILED INDEX FOR 2008-2009	2
DATA FOR FEBRUARY 2009	3- 30
DATA FOR JANUARY 2009	31- 96

PART II (COMPREHENSIVE REPORTS)	Page
DETAILED INDEX FOR 2008-2009	2
DATA FOR SEPTEMBER 2008	3- 21

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

KIND OF OBSERVATION	JUL 08	AUG	SEP	OCT	NOV	DEC	Jan 09	FEB
SOLAR AND INTERPLANETARY								
Sunspot Drawings	769A 40	770A 40	771A 40	772A 40	773A 42	774A 40	775A 38	
International Sunspot Numbers	768A 24	769A 24	770A 23	771A 24	772A 23	773A 24	774A 24	775A 20
American Sunspot Numbers	768A 24	769A 24	770A 23	771A 24	772A 23	773A 24	774A 24	775A 20
Mt. Wilson Magnetograms	769A 40	770A 40	771A 40	772A 40	773A 42	774A 40	775A 38	
Sunspot Mag Class and Regions	769A 77	770A 77	771A 75	772A 77	773A 77	774A 77	775A 75	
Kitt Peak Magnetograms	769A 40	770A 40	771A 40	772A 40	773A 42	774A 40	775A 38	
Mean Solar Mag Field (Stanford)	768A 30	769A 30	770A 29	771A 31	772A 30	773A 30	774A 30	775A 28
Stanford Magnetograms	769A 40	770A 40	771A 40	772A 40	773A 42	774A 40	775A 38	
H-alpha Filtergrams	769A 40	770A 40	771A 40	772A 40	773A 42	774A 40	775A 38	
PhotometricCa FaculaeSanFernando	Jan 92-Dec 96-631B 22; 1997-1998 663B 66							
Stanford Solar Mag Field Map	769A 34	770A 34	771A 34	772A 34	773A 36	774A 34	775A 32	
Kitt Peak Mag Field Synoptic Map	769A 39	770A 39	771A 39	772A 39	773A 41	774A 39	775A 37	
Active Prominences and Filaments	773B 16	774B 16	775B 15					
Sac Peak Coronal Line Maps	769A 36	770A 36	771A 36	772A 36	773A 39	774A 37	775A 35	
Photometric WL SanFernando	Jul-Dec 96 630B 32; 1997-1998 663B 51							
Coronal Line Emission (Sac Peak)	769A 38	770A 38	771A 38	772A 38	773A 40	774A 38	775A 36	
Coronal Hole Daily Maps (NSO/KP)								
Coronal Index (Slovak Academy)	1939-1996 - 644B 28							
Coronal Mass Ejections (CSPSW)	773B 21	774B 21	775B 20					
2800 MHz- Solar Flux (Penticton)	768A 24	769A 24	770A 23	771A 24	772A 23	773A 24	774A 24	775A 20
2800 MHz Adj Solar Flux (Pent.)	768A 24	769A 24	770A 23	771A 24	772A 23	773A 24	774A 24	775A 20
Adjusted Daily Solar Flux SGMR	768A 24	769A 24	770A 23	771A 24	772A 23	773A 24	774A 24	775A 20
Nancay Radioheliogr 150.9&327MHz	769A 83	770A 83	771A 80	772A 83	773A 84	774A 83	775A 80	
Nobeyama Radioheliogr 17 GHz	769A 71	770A 71	771A 70	772A 71	773A 72	774A 71	775A 69	
Solar X-ray GOES (graphs)	773B 9	774B 9	775B 9					
Solar X-ray GOES (event table)	768A 28	769A 28	770A 27	771A 28	772A 27	773A 28	774A 28	775A 26
Solar UV NOAA-9	May 86-Dec 88 in 566B 84							
Solar UV NIMBUS7	Nov 78-Oct84 in 542B 82							
Solar UV SOLSTICE (UARS)	Oct 91-Sep 94 in 607B 46							
Solar UV SUSIM (UARS)	Oct 91-Jan 97 in 629B 30							
Solar UV Mg II Daily Index	773B 17	774B 17	775B 16					
Solar Particles (GOES)	768A 4	769A 4	770A 4	771A 4	772A 4	773A 4	774A 4	775A 4
Solar Energetic Particles (ACE)	773B 20	774B 20	775B 19					
Solar Plasma (ACE)	773B 19	774B 19	775B 18					
ERBS	NOAA-9 & Oct 84-Jun 00 in 671B 36							
UARS Solar Irradiance	Oct 91-May 2001 684B 26 - Complete Mission							
VIRGO/SOHO Solar Irradiance	Jan 96-Sep 00 in 678B 46							
Inferred Interplanetary Mag Field	1984-1988 data in 542A168; 1989-Jan94 in 611A118							
ACE Interplanetary Mag Field	773B 18	774B 18	775B 17					
SOLAR FLARE-ASSOCIATED EVENT								
H-alpha Flares	768A 27	769A 27	770A 26	771A 27	772A 26	773A 27	774A 27	775A 25
H-alpha Flare Groups	773B 4	774B 4	775B 4					
Flare Patrol Observations	773B 6	774B 6	775B 6					
H-alpha Flare Index (ImpxDur)	Jan 76-Dec 85 in 639B 26; Jan 86-Oct 96 in 635B 24; Jan 96-Dec 98 in 665B 63							
Radio Bursts Fixed Frequency	773B 8	774B 8	775B 8					
Radio Bursts Fixed Freq Selected	768A 29	769A 29	770A 28	771A 29	772A 28	773A 29	774A 29	775A 27
Radio Bursts Spectral	769A 79	770A 79	771A 77	772A 79	773A 80	774A 79	775A 77	
Sudden Ionospheric Disturbances	769A 78	770A 78	771A 76	772A 78	773A 79	774A 78	775A 76	
GEOMAGNETIC EVENTS								
Geomagnetic Indices	769A 90	770A 90	771A 87	772A 90	773A 92	774A 88	775A 85	
27-day Chart of Kp Indices	769A 92	770A 92	771A 89	772A 91	773A 94	774A 90	775A 87	
Monthly Mean aa Indices	769A 93	770A 93	771A 90	772A 93	773A 95	774A 91	775A 89	
Principal Magnetic Storms	769A 97	770A 97	771A 94	772A 97	773A 99	774A 95	775A 95	
Sudden Commencements	769A 98	770A 98	771A 95	772A 98	773A100	774A 96	775A 96	
Equatorial Indices Dst	769A 95	770A 95	771A 92	772A 95	773A 97	774A 93	775A 93	
Polar Cap (PC) Index	769A 96	770A 96	771A 93	772A 96	773A 98	774A 94	775A 94	
COSMIC RAYS								
Cosmic Ray Neutron Cts (Climax)	769A 84	770A 84	771A 82	772A 85	773A 87	774A 85	775A 82	
Cosmic Ray Neutron Cts (Thule)	769A 84	770A 84	771A 82	772A 85	773A 87	774A 85	775A 82	
Cosmic Ray Neutron Cts (Kiel)	769A 84	770A 84	771A 82	772A 85	773A 87	774A 85	775A 82	
Cosmic Ray Neutron Cts (Beijing)	769A 84	770A 84	771A 82	772A 85	773A 87	774A 85	775A 82	
Cosmic Ray Neutron (Haleakala)	769A 84	770A 84	771A 82	772A 85	773A 87	774A 85	775A 82	
Cosmic Ray Neutron (Moscow)	769A 84	770A 84	771A 82	772A 85	773A 87	774A 85	775A 82	
Cosmic Ray Neutron Cts (Calgary)	769A 84	770A 84	771A 82	772A 85	773A 87	774A 85	775A 82	
MISCELLANEOUS								
ISES Alert Periods	768A 20	769A 20	770A 20	771A 20	772A 19	773A 20	774A 20	775A 18

y "748A 48" under Oct, for example, means the sunspot drawings for Oct appear in SOLAR-GEOPHYSICAL DATA No 748, Part I, and that they begin on page 48, "A" Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

CONTENTS

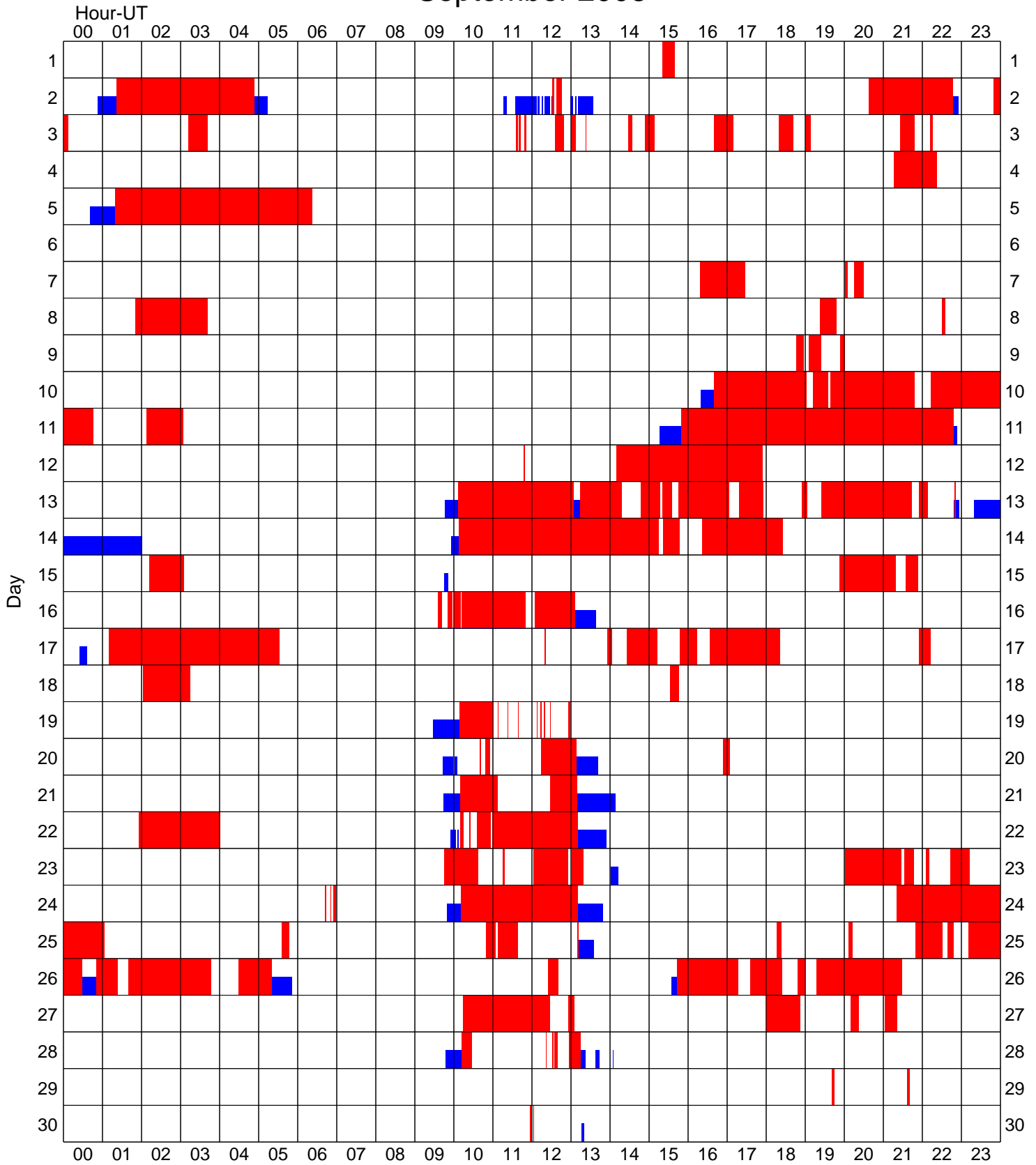
Comprehensive Reports

Number 775 Part II

DATA FOR SEPTEMBER 2008

	Page
SOLAR FLARES	
H-alpha Solar Flare Groups	4- 5
Intervals of No Flare Patrol Observation	6
Number of Solar Flares January 1965-present	7
SOLAR RADIO BURSTS AT FIXED FREQUENCIES	8
SOLAR X-RAY RADIATION FROM GOES SATELLITE	
Graphs	9- 13
Preliminary Event List -- See Solar X-ray Flare List in Jun Prompt Reports	
Preliminary Daily Average Background	14
ACTIVE PROMINENCES AND FILAMENTS	15
SOLAR ULTRAVIOLET DAILY DATA FROM NOAA SATELLITE	
NOAA Mg II Daily Index Version 9.1	16
INTERPLANETARY ENVIRONMENT HOURLY AVERAGE PLOTS	
FROM ADVANCED COMPOSITION EXPLORER (ACE) SATELLITE	
Interplanetary Magnetic Field -- MAG	17
Solar Wind Plasma -- SWEPAM	18
Solar Energetic Particles -- EPAM/SIS (Ions, Electrons, and Carbon)	19
SOLAR CORONAL MASS EJECTIONS from SOHO/LASCO SATELLITE	
Table of Events	20- 21

Intervals of No Flare Patrol Observation for Preceding Solar Flare Table September 2008

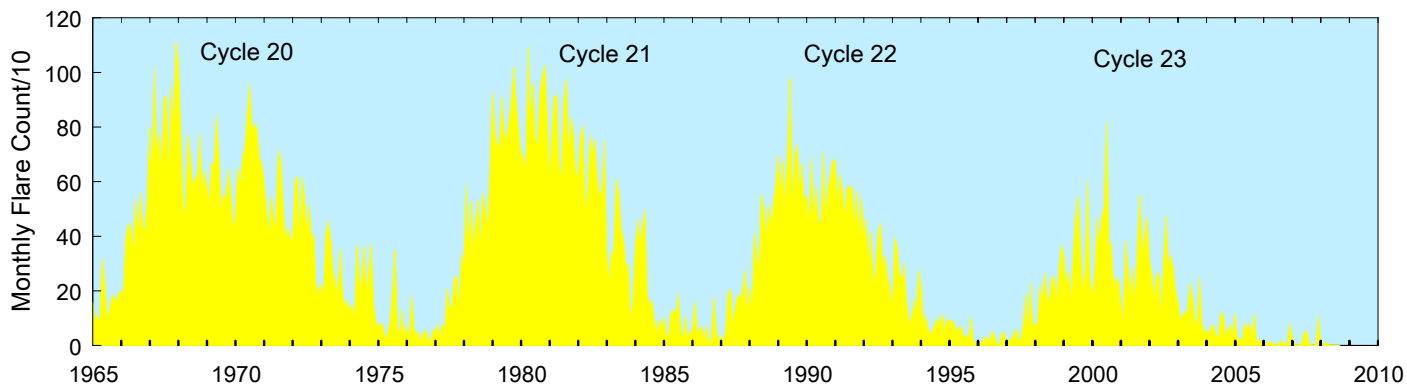


■ Times of no flare patrol of any kind.
■ Times of no cinematographic flare patrol.

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

Monthly Counts of Grouped Solar Flares

Jan 1965 - Sep 2008



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				18

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
Selected Fixed Frequency Events

SEPTEMBER 2008

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
02	410 SGMR	8 S	1016.0	1016.0	U	230.0			QL=4 ST=2 TYP=3
25	33 UPIC	4 S/F	1249.0	1249.5	1.5U				

Reports are received routinely from the following observatories:

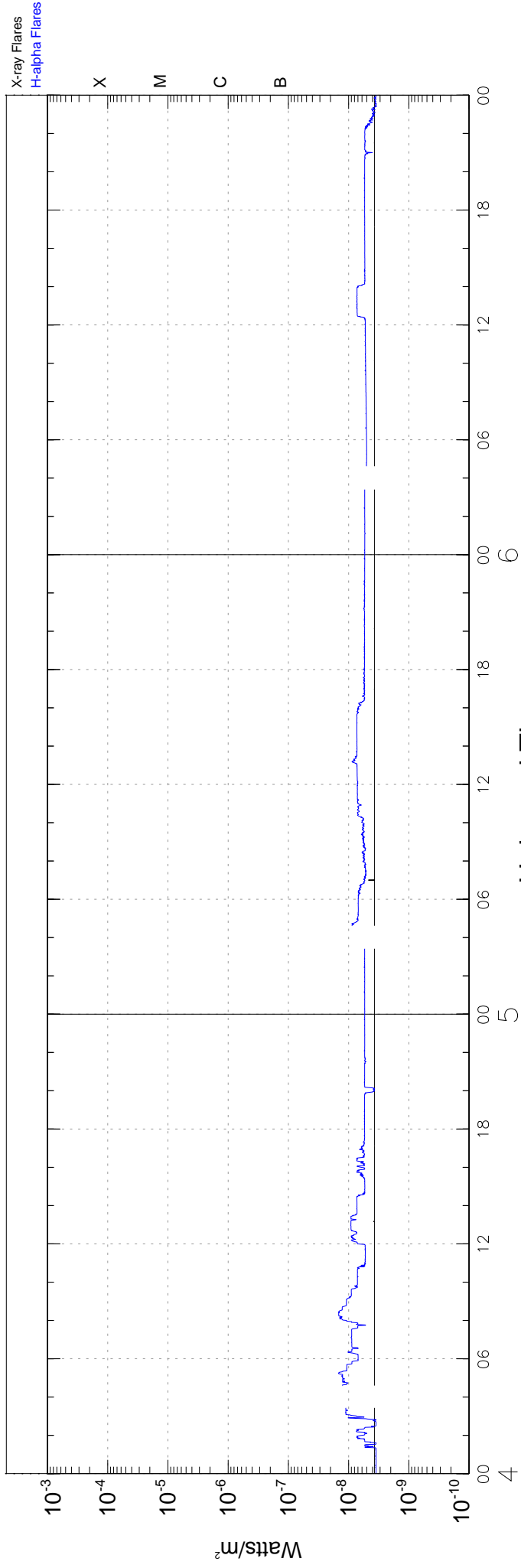
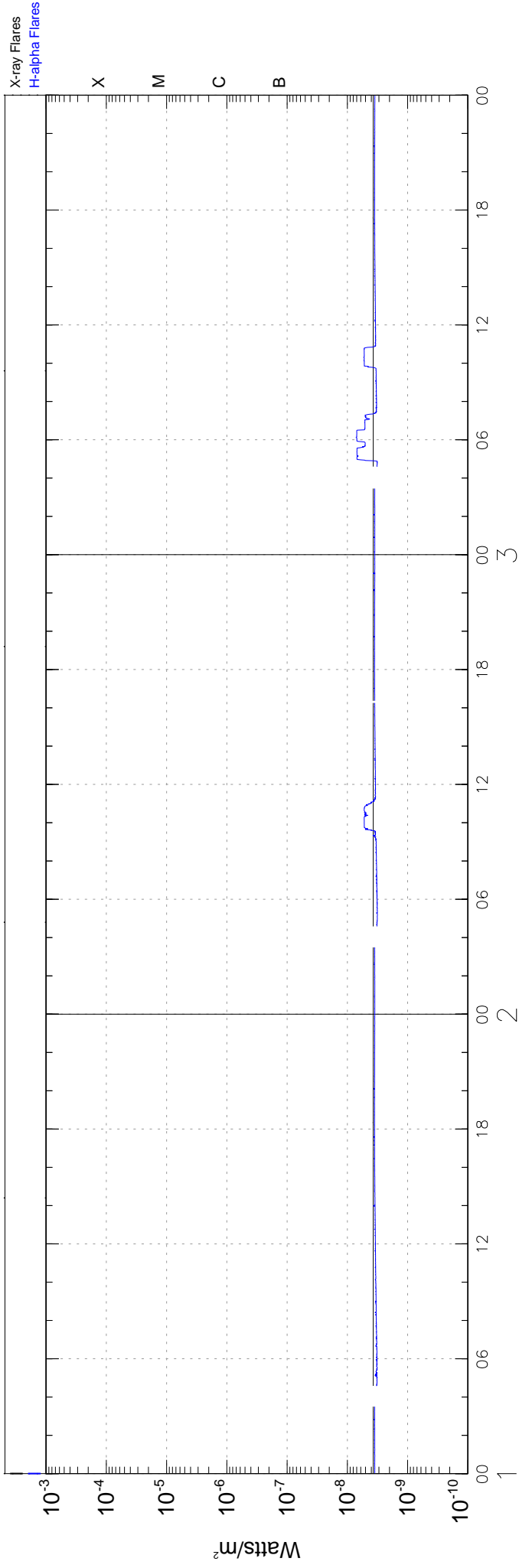
CUBA = Havana	LEAR = Learmonth	SGMR = Sagamore Hill
GORK = Gorky	PEKG = Peking	SVTO = San Vito
HIRA = Hiraiso	PALE = Palehua	TORN = Torun
IZMI = IZMIRAN	PENT = Penticton	UPIC = Upice

Explanation of Type Code:

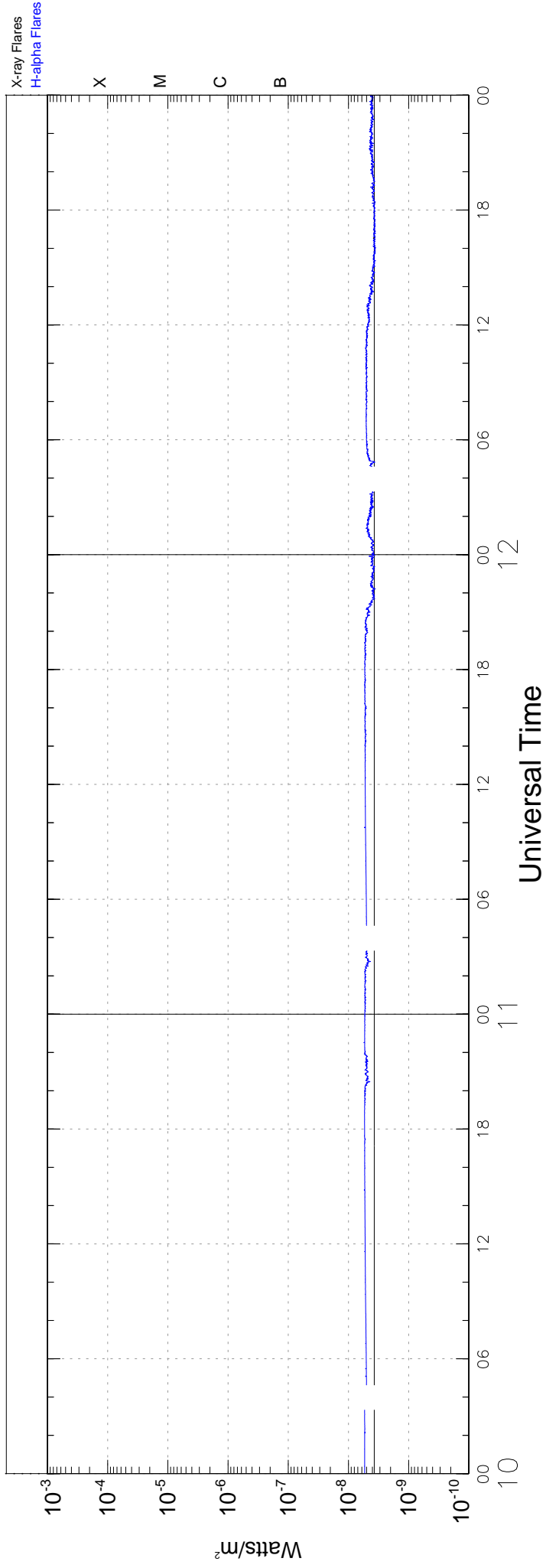
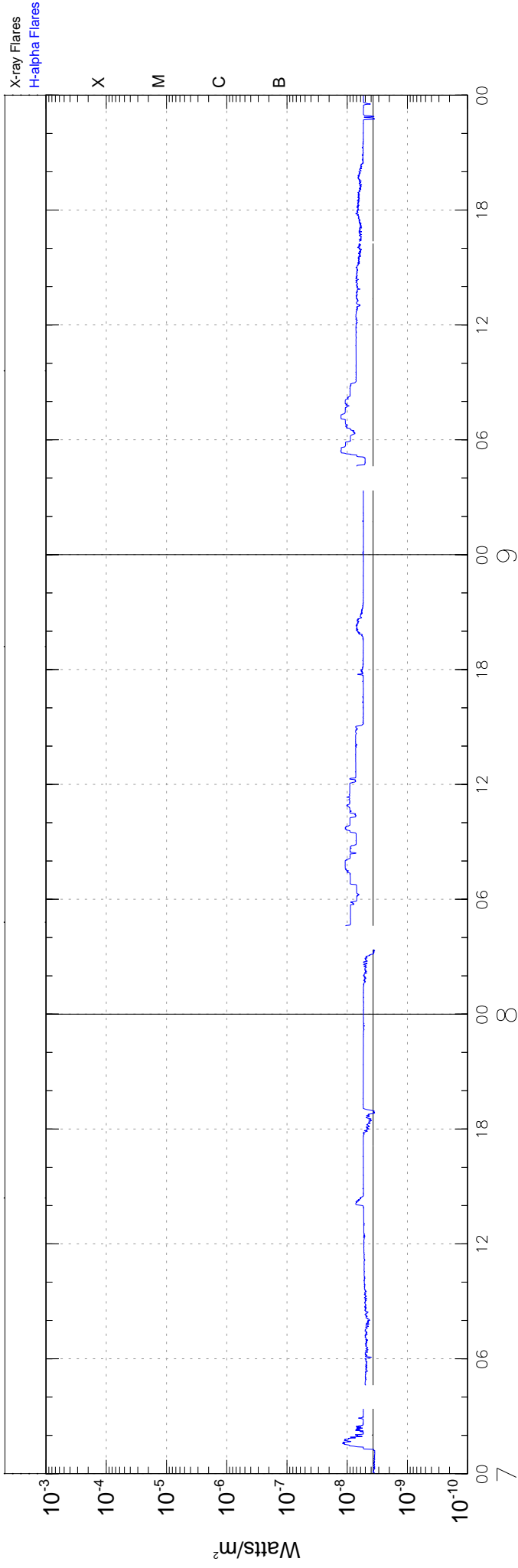
1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 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.

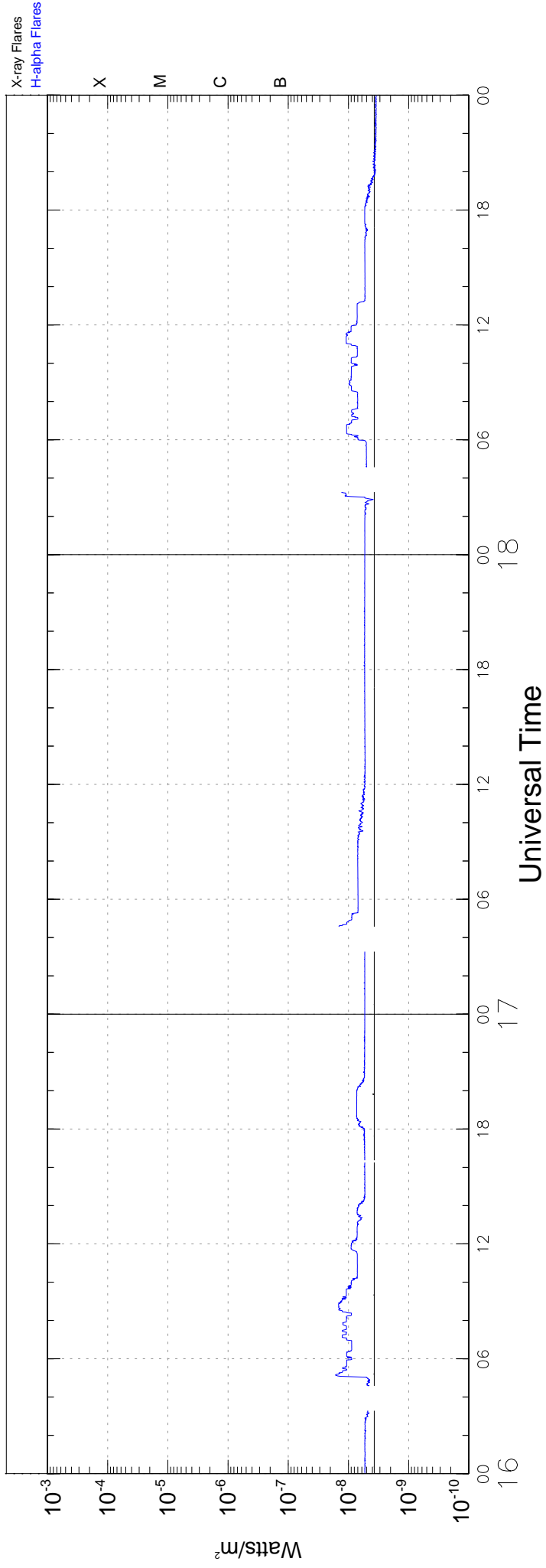
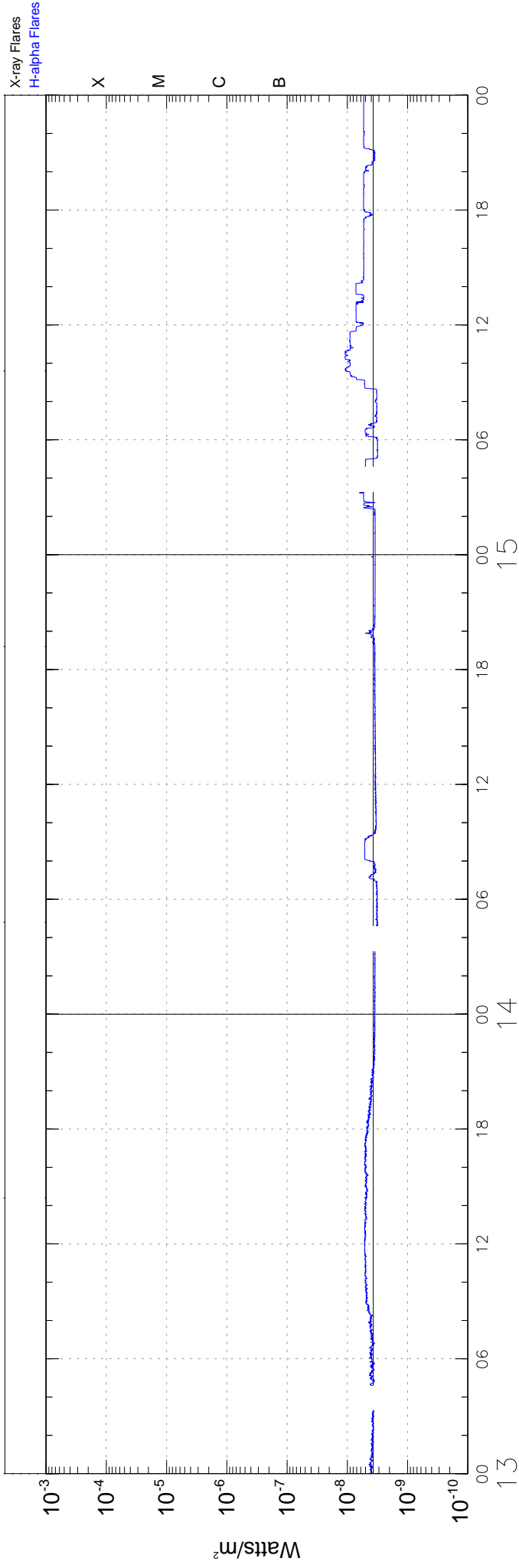
GOES-10 Solar X-Rays (1-Minute Averages) September 2008



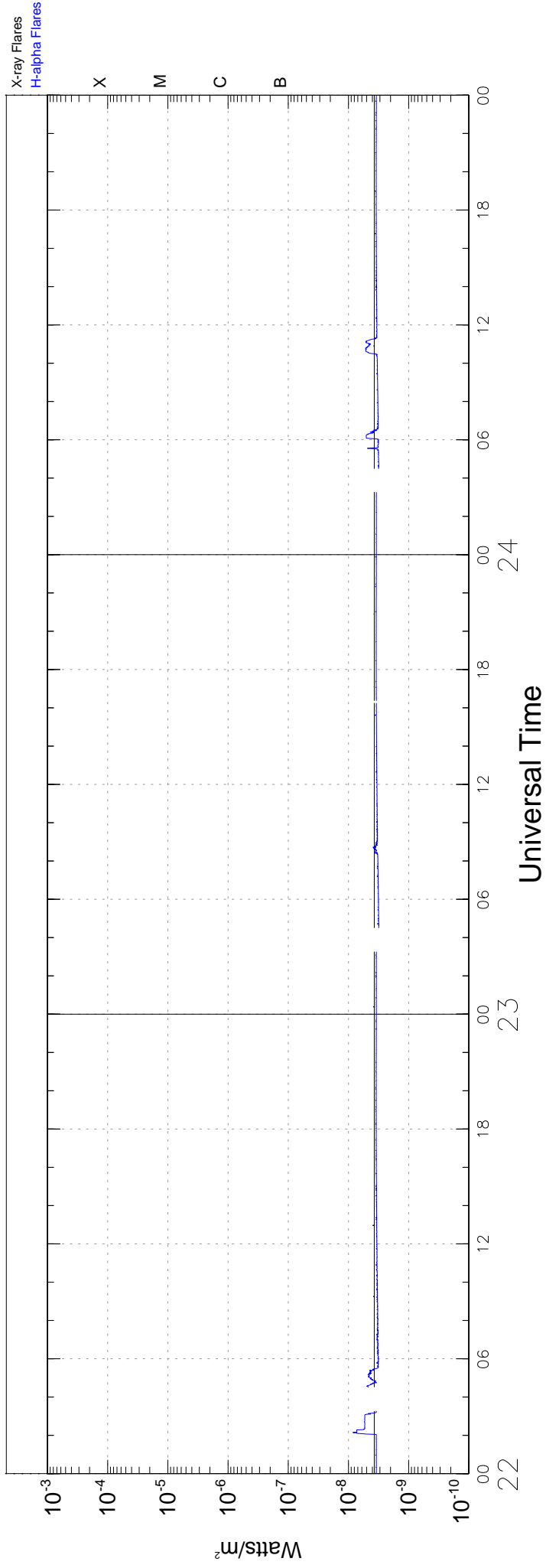
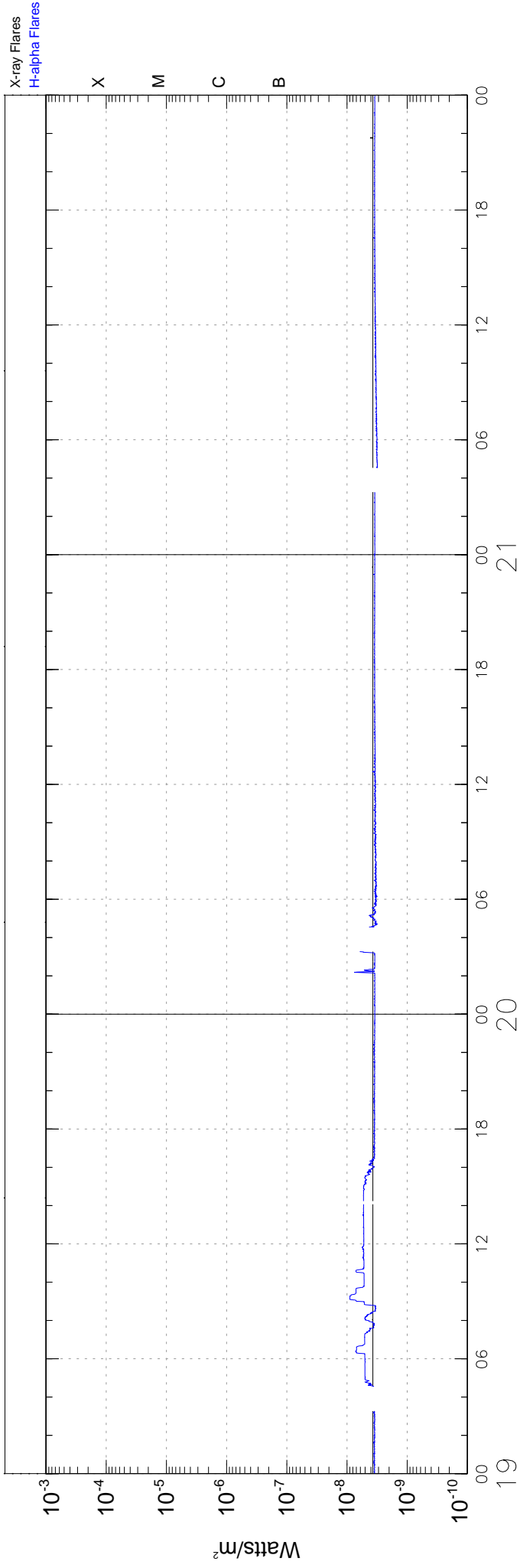
GOES-10 Solar X-Rays (1-Minute Averages) September 2008



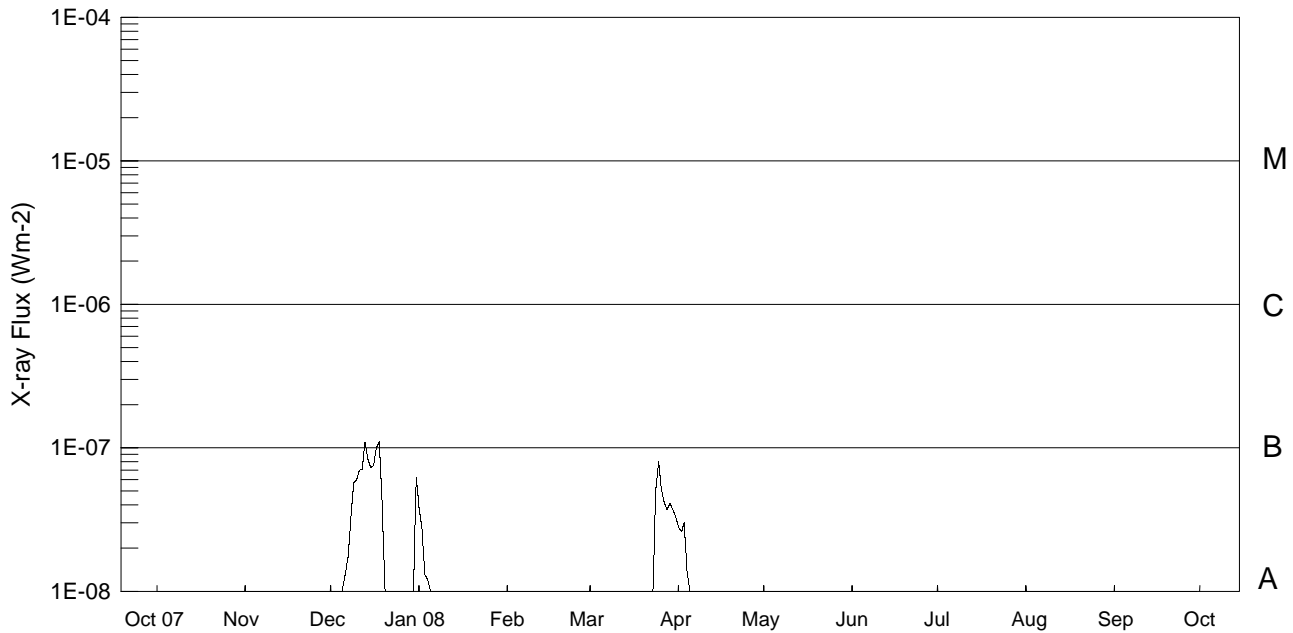
GOES-10 Solar X-Rays (1-Minute Averages) September 2008



GOES-10 Solar X-Rays (1-Minute Averages) September 2008



Preliminary GOES Satellite Daily X-Ray Background Oct 2007 - Sep 2008



Day	Oct 07	Nov	Dec	Jan 08	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	<A1.0	<A1.0	<A1.0	A3.8	<A1.0	<A1.0	A2.8	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
2	<A1.0	<A1.0	<A1.0	A2.7	<A1.0	<A1.0	A2.6	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
3	<A1.0	<A1.0	<A1.0	A1.3	<A1.0	<A1.0	A3.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
4	<A1.0	<A1.0	<A1.0	A1.2	<A1.0	<A1.0	A1.4	<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	A1.3	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
7	<A1.0	<A1.0	A1.7	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
8	<A1.0	<A1.0	A3.2	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
9	<A1.0	<A1.0	A5.7	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
10	<A1.0	<A1.0	A6.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
11	<A1.0	<A1.0	A7.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
12	<A1.0	<A1.0	A7.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
13	<A1.0	<A1.0	B1.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
14	<A1.0	<A1.0	A8.4	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
15	<A1.0	<A1.0	A7.3	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
16	<A1.0	<A1.0	A7.5	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
17	<A1.0	<A1.0	B1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
18	<A1.0	<A1.0	B1.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
19	<A1.0	<A1.0	A4.0	<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	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A5.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
25	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A8.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
26	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A5.2	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
27	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A4.2	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
28	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A3.7	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
29	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A4.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
30	<A1.0	<A1.0	<A1.0	<A1.0		A3.7	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
31	<A1.0		A6.2	<A1.0		A3.3		<A1.0		<A1.0	<A1.0	

Levels below B1.0 are unreliable.

SEPTEMBER 2008

Day	Type	Event Start (UT)	Event End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
-----	------	------------------	----------------	-----	-----	--------	-----	-----	--------	-------------------	------------------	----------	-----	-----------------	---------

No Reports

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.

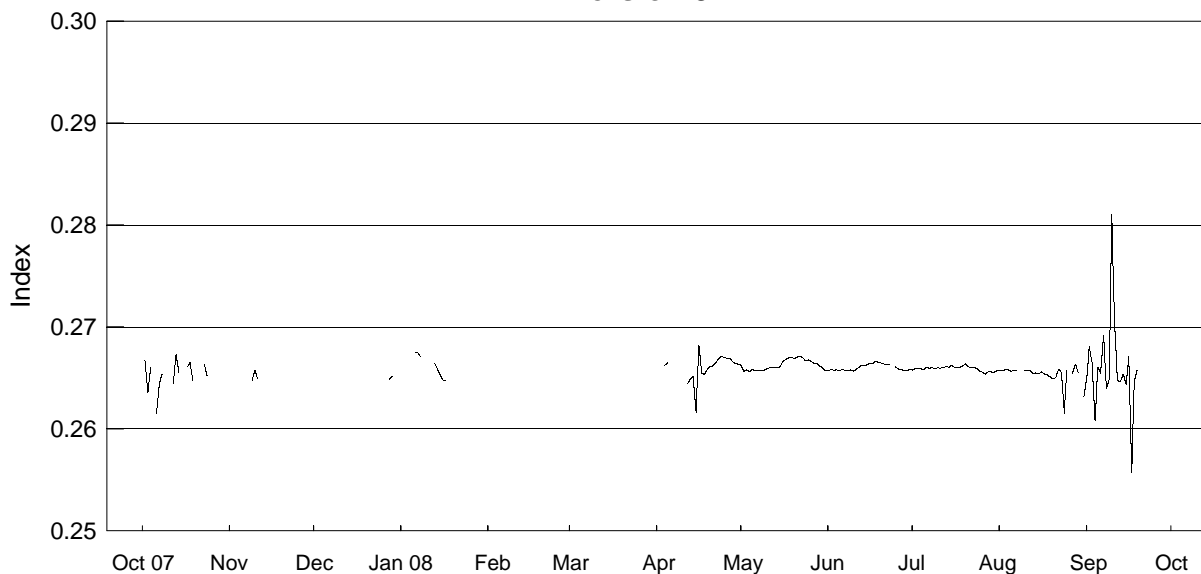
ABST = Abastumani	HOLL = Holloman	RAMY = Ramey
ATHN = Athens	KHAR = Kharkov	SVTO = San Vito
BUCA = Bucharest	LEAR = Learmonth	VORO = Voroshilov
CATA = Catania	PALE = Palehua	VALA = Valasske Mezirici
		WROC = Wroclaw

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

Oct 2007 - Sep 2008

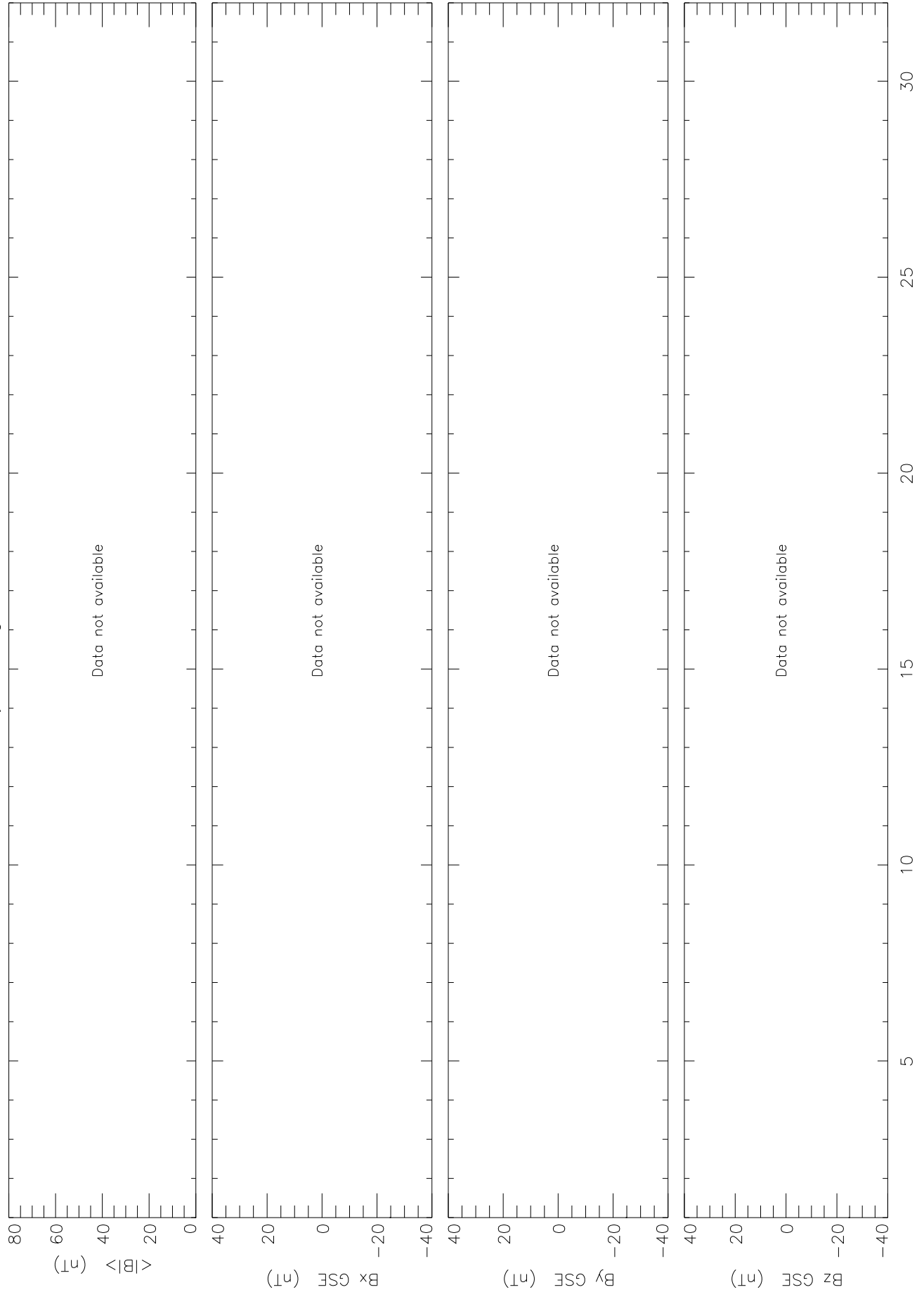
Version 9.1



Day	Oct 07	Nov	Dec	Jan 08	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	0.2663	0.2657	0.2658	0.2657	0.2650
2	0.2668	---	---	0.2658	---	---	---	0.2657	0.2658	0.2659	0.2657	0.2681
3	0.2635	---	---	---	---	---	---	0.2658	0.2658	0.2660	0.2658	0.2664
4	0.2661	---	---	---	---	---	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	0.2615	---	---	0.2675	---	---	---	0.2657	0.2659	0.2661	0.2657	0.2655
7	0.2645	0.2644	---	0.2675	---	---	---	0.2657	0.2658	0.2659	0.2657	0.2692
8	0.2654	---	---	0.2671	---	---	---	0.2657	0.2658	0.2660	---	0.2640
9	---	0.2647	---	---	---	---	---	0.2658	0.2658	0.2659	---	0.2649
10	---	0.2658	---	---	---	---	---	0.2659	0.2657	0.2660	0.2658	0.2810
11	---	0.2650	---	0.2527	---	---	---	0.2660	0.2658	0.2660	0.2657	0.2704
12	0.2644	---	---	---	---	---	0.2644	0.2660	0.2661	0.2660	0.2657	0.2648
13	0.2674	---	---	0.2664	---	---	0.2649	0.2660	0.2663	0.2661	0.2654	0.2646
14	0.2655	---	---	0.2659	---	---	0.2651	0.2660	0.2662	0.2661	0.2655	0.2654
15	---	---	---	0.2653	---	---	0.2617	0.2661	0.2663	0.2663	0.2654	0.2644
16	---	---	---	0.2648	---	---	0.2682	0.2667	0.2665	0.2660	0.2656	0.2671
17	0.2661	---	---	0.2647	---	---	0.2655	0.2668	0.2665	0.2660	0.2654	0.2557
18	0.2665	---	---	---	---	---	0.2654	0.2670	0.2667	0.2660	0.2653	0.2647
19	0.2647	---	---	---	---	---	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	0.2664	---	---	---	---	---	0.2669	0.2670	0.2664	0.2660	0.2656	---
24	0.2652	---	0.2665	---	---	---	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	---	---	0.2649	---	---	---	0.2666	0.2664	0.2657	0.2656	0.2664	---
29	0.2658	---	0.2652	---	---	---	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	0.2653	0.2650	0.2655	0.2661	---	---	0.2660	0.2663	0.2660	0.2659	0.2651	0.2654

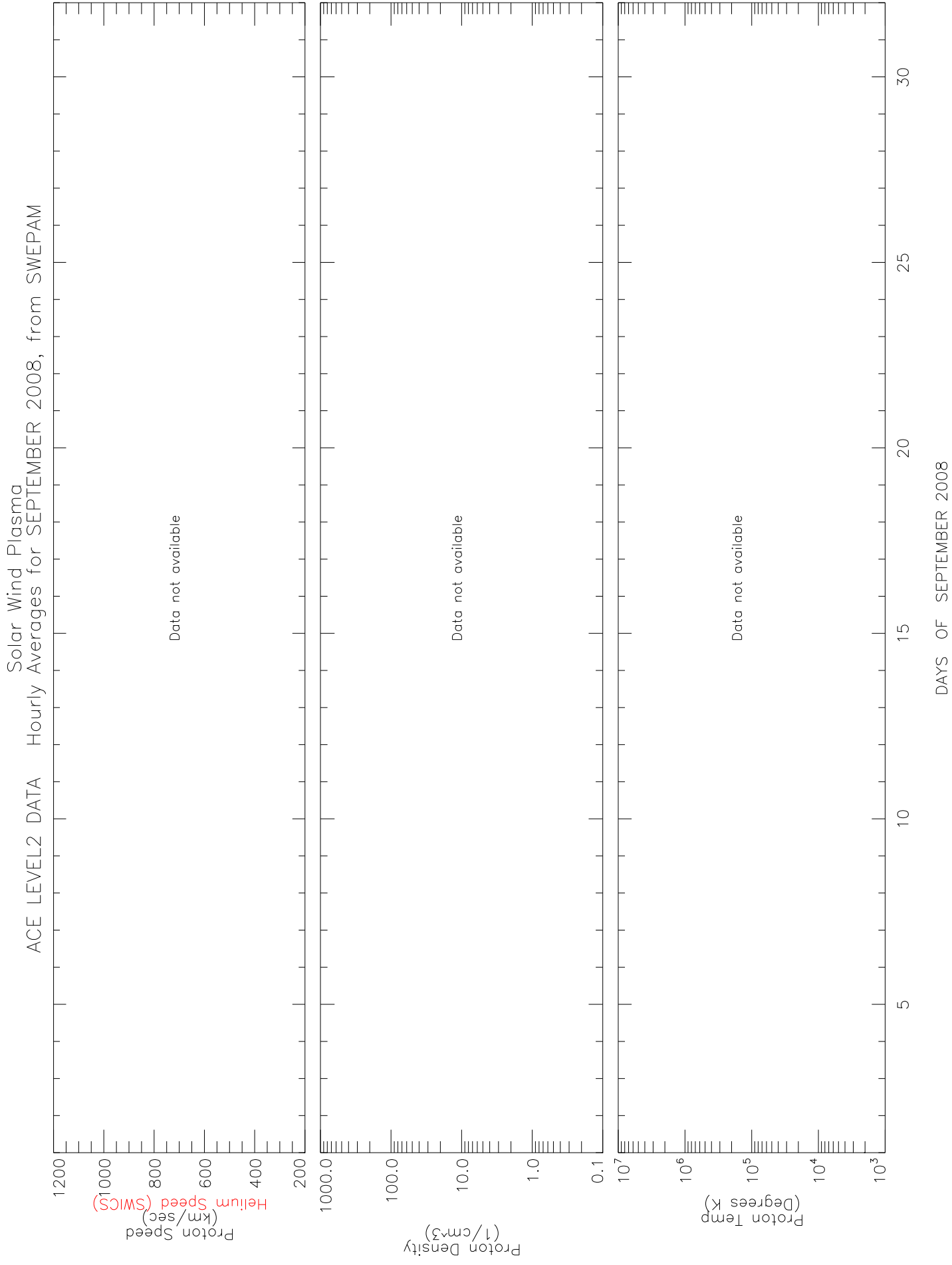
Data at: <http://www.swpc.noaa.gov/ftpmenu/sbuw.html>

ACE LEVEL2 DATA Interplanetary Magnetic Field
Hourly Averages for SEPTEMBER 2008, from MAG

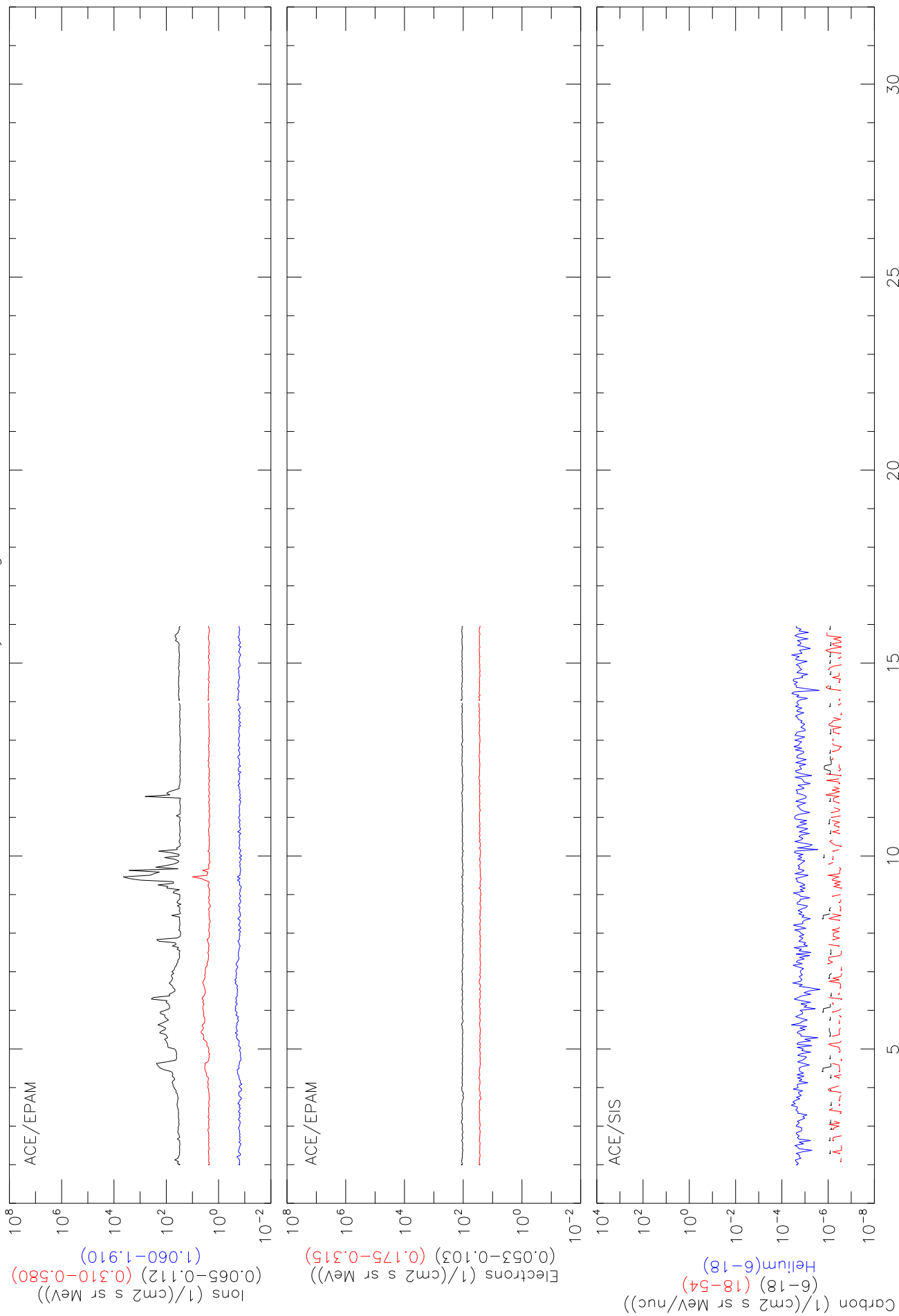


DAYS OF SEPTEMBER 2008

ACE LEVEL2 DATA Hourly Averages for SEPTEMBER 2008, from SWEPAM



Solar Energetic Particles ACE LEVEL2 DATA Hourly Averages for SEPTEMBER 2008



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
SEPTEMBER 2008

First C2 Appearance		Central Width			Linear Fit			Measurement		Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	Accel m/s ²	Position Angle degree	
2008/09/01	05:30:06	113	8	142	114	171	240	2.0*	111	Poor Event
2008/09/02	08:06:04	279	12	306	215	397	940	34.5*	279	Poor Event; Only C2
2008/09/02	10:54:04	52	14	100	97	102	119	0.2*	55	Very Poor Event
2008/09/02	18:54:04	109	8	108	177	41	0	-18.4*	106	Very Poor Event; Only C2
2008/09/02	22:30:04	107	14	230	234	227	176	-1.0*	106	Very Poor Event; Only C2
2008/09/03	23:06:04	290	12	249	168	335	817	26.5*	289	Very Poor Event; Only C2
2008/09/04	18:54:04	198	6	346	----	----	----	-----	201	Very Poor; 2 pts; Only C2
2008/09/07	04:30:04	61	7	235	144	324	431	7.5*	68	Poor Event
2008/09/07	20:06:05	237	13	205	129	281	360	5.3*	247	Very Poor Event
2008/09/08	00:30:04	245	8	197	210	184	140	-1.1*	241	Very Poor Event
2008/09/08	01:31:38	84	68	115	70	164	272	2.9*	72	Poor Event
2008/09/09	00:30:04	240	12	236	257	214	140	-2.4*	241	Very Poor Event
2008/09/09	01:31:39	270	9	387	395	379	217	-4.6*	269	Very Poor Event; Only C2
2008/09/09	03:30:04	236	11	162	66	256	432	7.7*	239	Very Poor Event
2008/09/09	10:54:28	242	10	290	266	314	348	2.2*	243	Very Poor Event
2008/09/09	11:30:04	241	7	146	157	136	0	-1.9*	241	Very Poor Event; Only C2
2008/09/09	11:54:04	145	6	130	----	----	----	-----	143	Very Poor; 2 pts; Only C2
2008/09/10	18:30:04	75	18	146	166	124	0	-5.0*	78	Poor Event; Only C2
2008/09/11	00:30:04	247	7	194	144	246	348	5.0*	234	Very Poor Event
2008/09/11	17:30:04	247	7	158	133	184	289	3.0*	249	Very Poor Event
2008/09/12	10:30:14	89	49	91	0	179	198	1.7*	92	
2008/09/13	11:30:04	101	6	150	138	164	215	1.1*	101	
2008/09/14	16:30:04	252	11	212	216	208	98	-1.6*	207	Very Poor Event; Only C2
2008/09/14	22:30:04	356	8	376	143	627	1769	134.4*	356	Very Poor; 3 pts; Only C2
2008/09/14	22:30:04	75	46	110	43	179	249	2.5*	74	Poor Event
2008/09/15	10:30:16	86	9	211	214	207	161	-0.8*	89	Very Poor Event; Only C2
2008/09/16	06:30:04	243	9	209	195	225	332	3.0*	249	Very Poor Event
2008/09/16	11:54:17	5	4	531	459	608	1086	41.7*	6	Very Poor; 3 pts; Only C2
2008/09/16	17:06:04	247	19	230	216	244	293	1.7*	252	Very Poor Event
2008/09/16	20:30:04	278	34	83	71	95	184	1.2*	279	Very Poor Event; Only C2
2008/09/19	01:27:13	337	4	407	446	367	0	-23.2*	333	Very Poor Event; Only C2
2008/09/19	10:26:04	53	24	200	210	189	171	-0.6*	53	Poor Event
2008/09/19	21:26:07	55	14	201	133	264	625	15.5*	56	Very Poor Event; Only C2
2008/09/20	03:34:12	59	8	247	152	343	759	23.2*	62	Very Poor Event; Only C2
2008/09/20	09:06:04	157	6	505	----	----	----	-----	153	Very Poor; 2 pts; Only C2
2008/09/21	12:06:04	303	17	262	218	310	335	2.8*	301	Poor Event
2008/09/21	15:50:04	125	3	214	170	257	787	24.8*	121	Very Poor Event; Only C2
2008/09/22	15:50:04	72	9	151	149	153	193	0.6*	77	Poor Event; Only C2
2008/09/22	18:34:27	343	9	239	264	213	0	-11.0*	338	Very Poor Event; Only C2
2008/09/23	02:50:04	112	9	147	0	290	994	47.7*	110	Very Poor Event; Only C2

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
SEPTEMBER 2008

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	
2008/09/24	07:27:12	118	10	206	164	249	537		12.9*	115	Very Poor Event	
2008/09/24	23:06:04	114	6	213	149	285	331		4.1*	114	Very Poor Event	
2008/09/25	13:27:12	358	4	272	187	362	1320		75.3*	355	Very Poor; 3 pts; Only C2	
2008/09/25	20:26:05	72	6	258	318	199	0		-33.7*	74	Very Poor Event; Only C2	
2008/09/27	16:26:04	82	18	118	75	162	936		36.3*	82	Very Poor; 3 pts; Only C2	
2008/09/27	18:06:04	300	6	303	318	287	0		-4.8*	291	Poor Event; Only C2	
2008/09/28	00:26:04	12	4	369	216	525	1224		62.6*	13	Very Poor Event; Only C2	
2008/09/28	13:27:11	109	19	218	180	257	391		5.1*	105	Very Poor Event	
2008/09/28	22:26:04	273	35	379	348	407	466		4.2*	276	Poor Event	
2008/09/29	12:50:04	355	6	458	484	433	120		-9.6*	353		
2008/09/29	13:27:13	205	2	319	193	452	1652		110.9*	207	Very Poor; 3 pts; Only C2	
2008/09/29	13:27:13	86	19	153	168	137	0		-2.3*	83	Very Poor Event	
2008/09/29	21:26:07	183	5	308	136	491	1910		148.4*	183	Very Poor; 3 pts; Only C2	
2008/09/29	21:50:04	284	48	177	209	143	0		-4.1*	274	Poor Event	
2008/09/30	03:50:04	181	7	540	637	446	0		-88.6*	184	Very Poor; 3 pts; Only C2	
2008/09/30	08:06:04	25	5	393	518	266	0		-69.3*	28	Very Poor Event; Only C2	

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

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