

H A S O L A R F L A R E S
May 2008

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/		Dur (Min)	Imp		Obs See Type	Area Measurement			Remarks
						USAF Region	CMP Mo Day		Opt	Xray		Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
		18	1039		1305	No	Flare	Patrol							
		19	0152		0242	No	Flare	Patrol							
		19	0441		0442	No	Flare	Patrol							
		20	0126		0448	No	Flare	Patrol							
		20	0717		0727	No	Flare	Patrol							
		20	0807		0956	No	Flare	Patrol							
		20	2302		2344	No	Flare	Patrol							
		21	1143		1220	No	Flare	Patrol							
		21	2132		2400	No	Flare	Patrol							
		22	0000		0418	No	Flare	Patrol							
		22	0939		1237	No	Flare	Patrol							
		22	1415		1420	No	Flare	Patrol							
		22	1504		1519	No	Flare	Patrol							
		22	1617		1723	No	Flare	Patrol							
		22	1731		1850	No	Flare	Patrol							
		22	1925		1929	No	Flare	Patrol							
		22	1939		1957	No	Flare	Patrol							
		22	2116		2145	No	Flare	Patrol							
		22	2339		2346	No	Flare	Patrol							
		23	0126		0402	No	Flare	Patrol							
		23	1645		1738	No	Flare	Patrol							
		23	1913		1937	No	Flare	Patrol							
		24	0103		0507	No	Flare	Patrol							
		25	0157		0523	No	Flare	Patrol							
		25	0625		0641	No	Flare	Patrol							
		26	0157		0421	No	Flare	Patrol							
		26	0552		0556	No	Flare	Patrol							
		27	0157		0405	No	Flare	Patrol							
		27	0454		1213	No	Flare	Patrol							
		28	0158		1213	No	Flare	Patrol							
		28	1946		2003	No	Flare	Patrol							
		28	2058		2111	No	Flare	Patrol							
		28	2144		2318	No	Flare	Patrol							
		28	2340		2400	No	Flare	Patrol							
		29	0000		0403	No	Flare	Patrol							
		29	0808		0811	No	Flare	Patrol							
		29	1117		1123	No	Flare	Patrol							
		29	1130		1148	No	Flare	Patrol							
		29	1157		1212	No	Flare	Patrol							
		30	0158		0422	No	Flare	Patrol							
		30	0458		1212	No	Flare	Patrol							
		30	1350		1548	No	Flare	Patrol							
		31	0159		0405	No	Flare	Patrol							

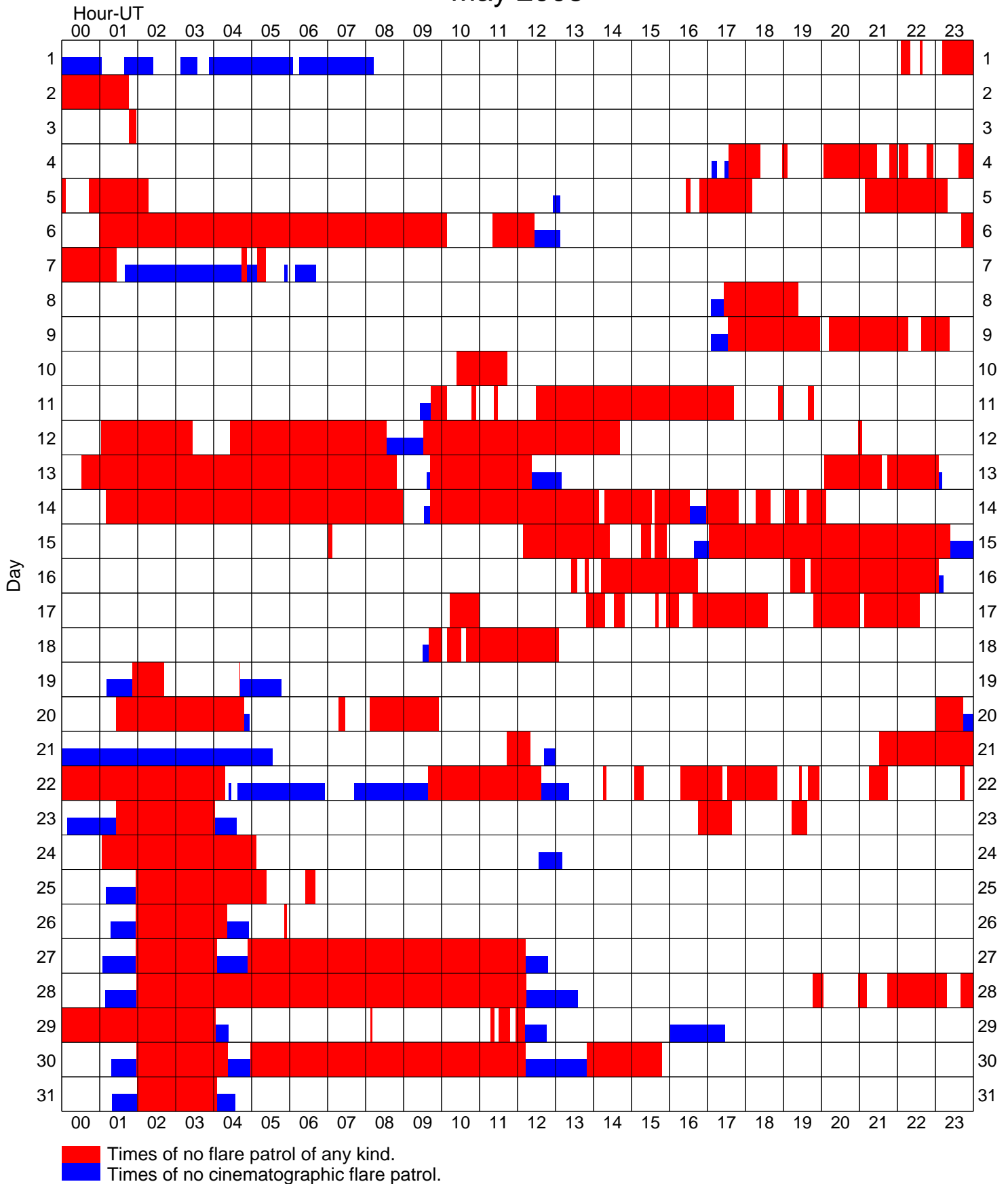
"Remarks"

A = Eruptive prominence whose base is less than 90 degrees from central meridian.	O = Observations have been made in the H and K lines of Ca II.
B = Probably the end of a more important flare.	P = Flare shows Helium D3 in emission.
C = Invisible 10 minutes before.	Q = Flare shows Balmer continuum in emission.
D = Brilliant point.	R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
E = Two or more brilliant points.	S = Brightness follows disappearance of filament in same position.
F = Several eruptive centers.	T = Region active all day.
G = No visible spots in the neighborhood.	U = Two bright branches, parallel or converging.
H = Flare accompanied by high-speed dark filament.	V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.
I = Active region very extended.	W = Great increase in area after time of maximum intensity.
J = Distinct variations of plage intensity before or after the flare.	X = Unusually wide H-alpha line.
K = Several intensity maxima.	Y = System of loop-type prominences.
L = Existing filaments show signs of sudden activity.	Z = Major sunspot umbra covered by flare.
M = White-light flare.	
N = Continuous spectrum shows effects of polarization.	

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

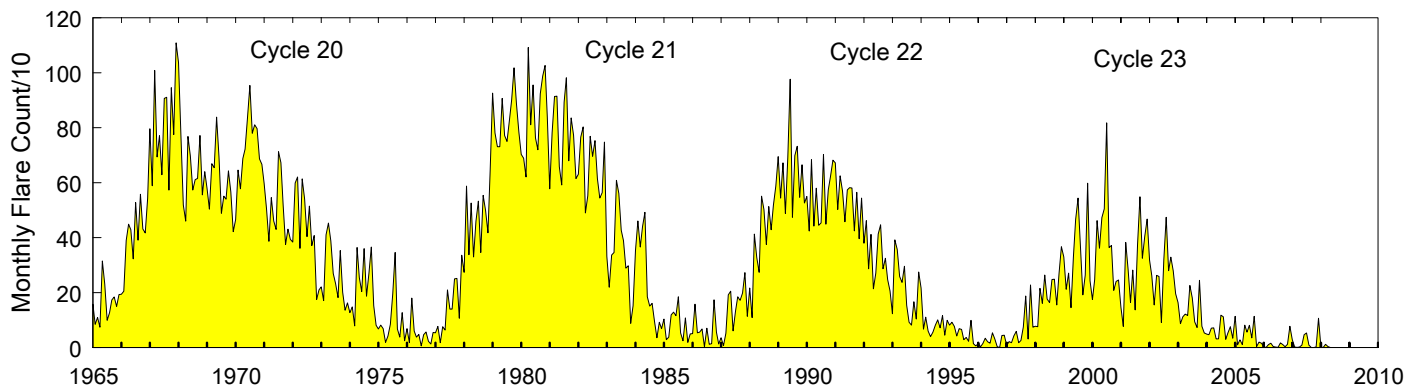
Intervals of No Flare Patrol Observation for Preceding Solar Flare Table

May 2008



Stations participating: Holloman, Learmonth, SanVito, Kanzelhoehe.

Monthly Counts of Grouped Solar Flares Jan 1965 - May 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								18

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

May 08

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

MAY 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		
18	410 LEAR	48 C	0604.0	0608.0	4.0	740.0			QL=4 ST=2 TYP=8
28	4995 PALE	49 GB	2057.0	2058.0	2.0	52000.0			QL=4 ST=2 TYP=6

Reports are received routinely from the following observatories:

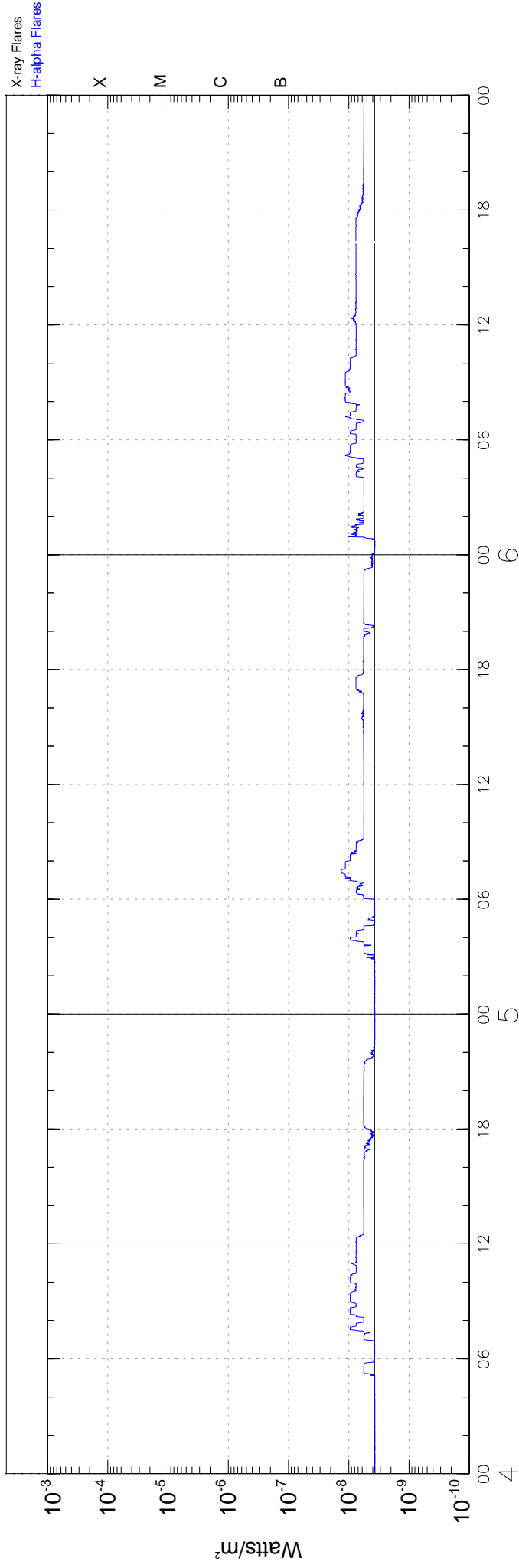
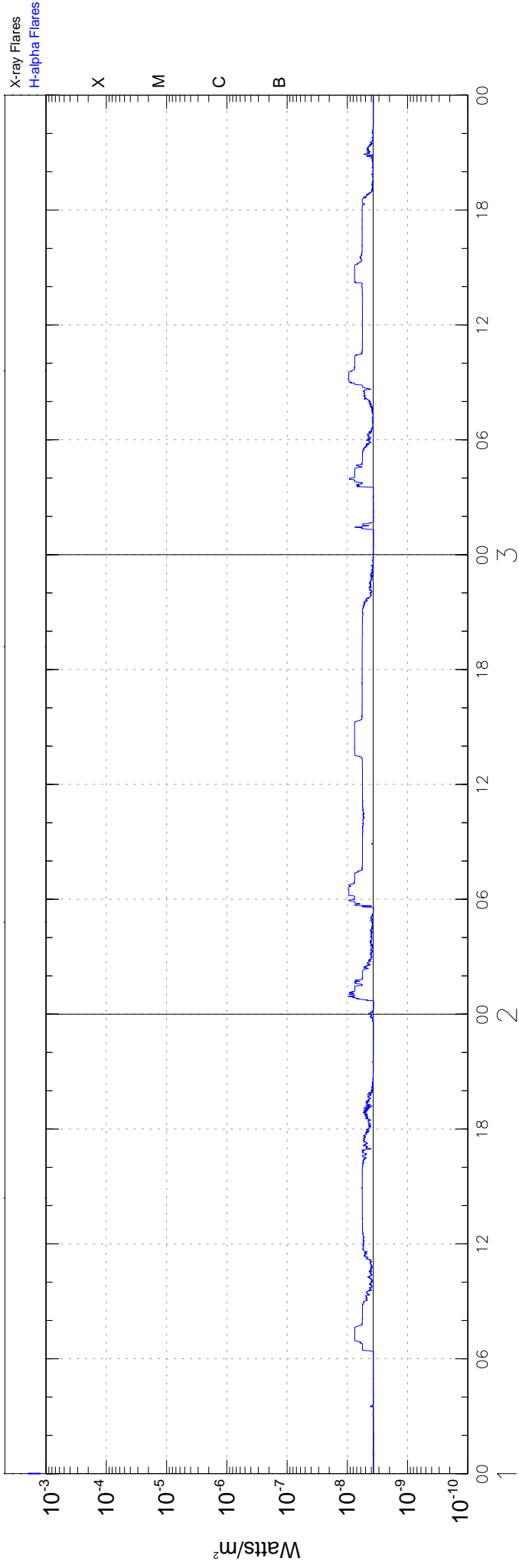
LEAR = Learmonth SGMR = Sagamore Hill SVTO = San Vito

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	

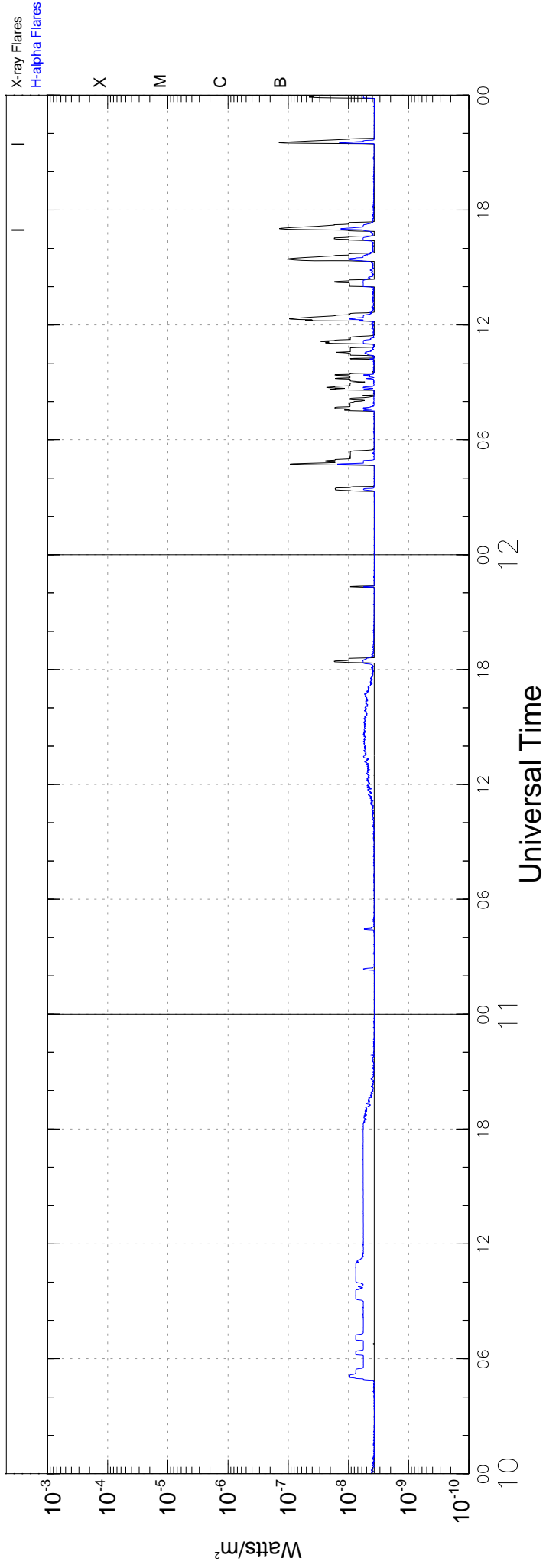
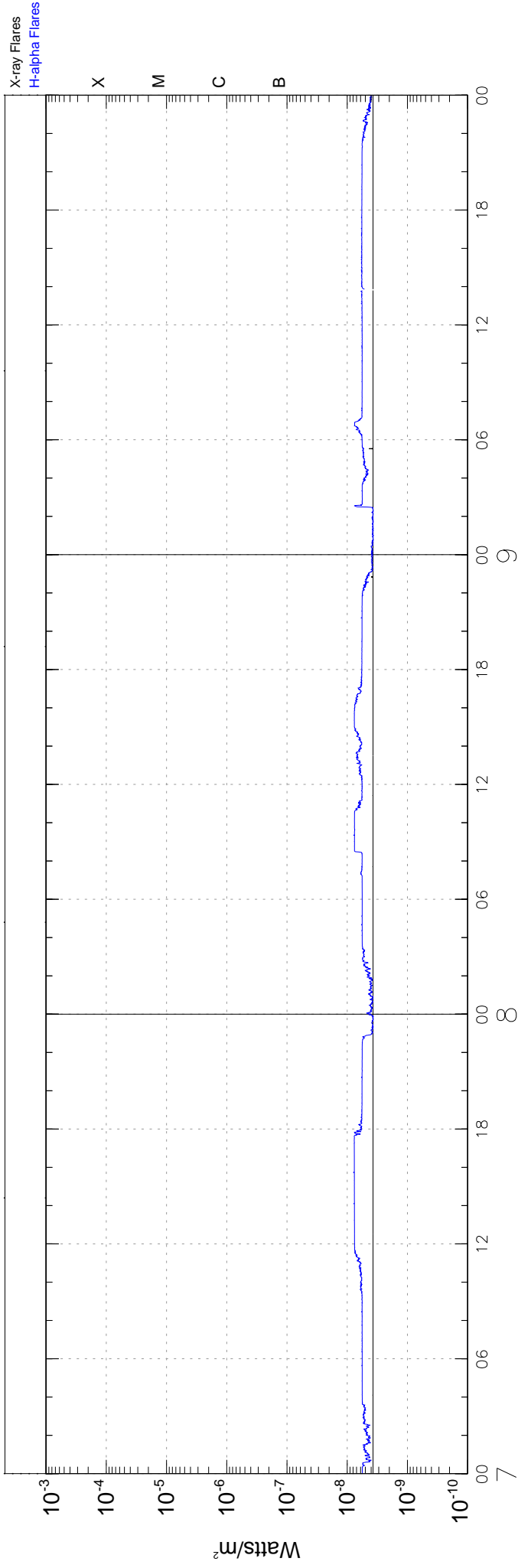
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; and Hiraiso, Japan 500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

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

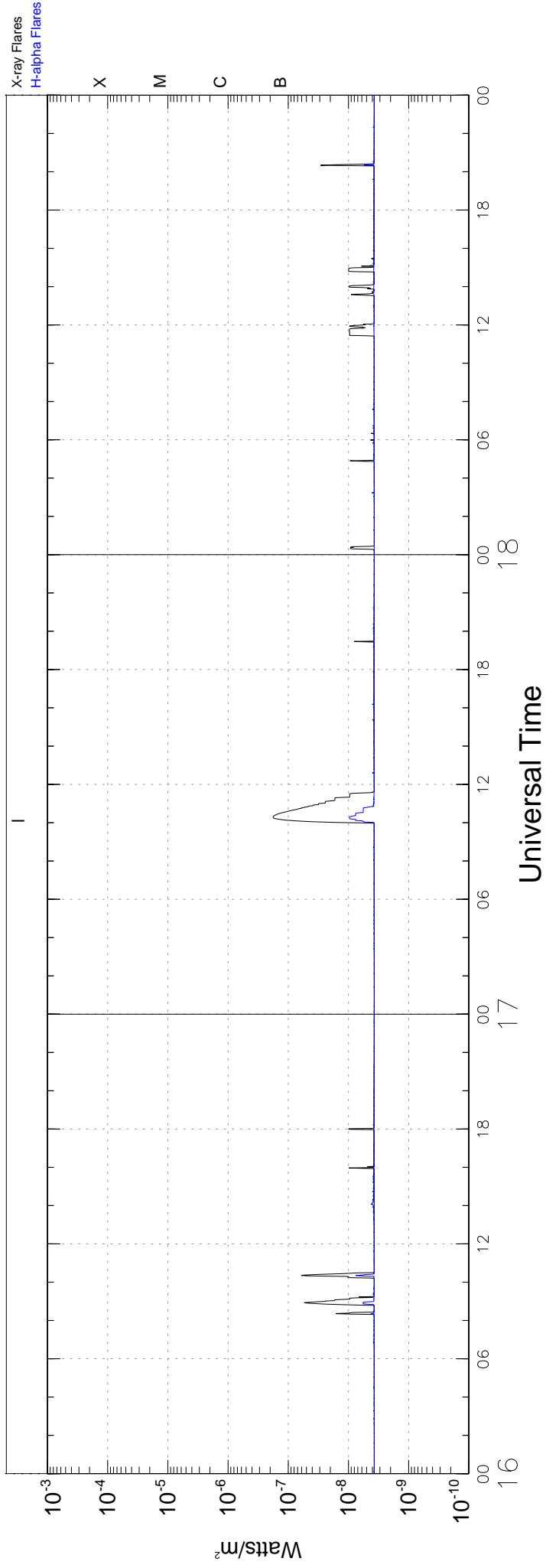
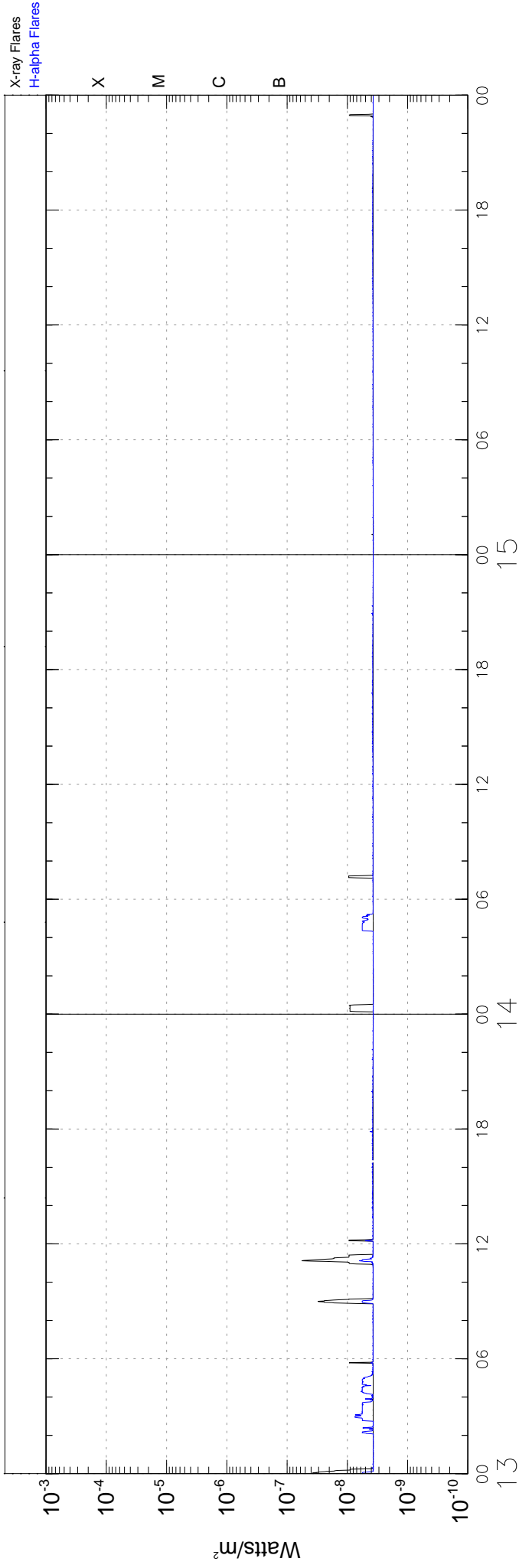


Universal Time

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

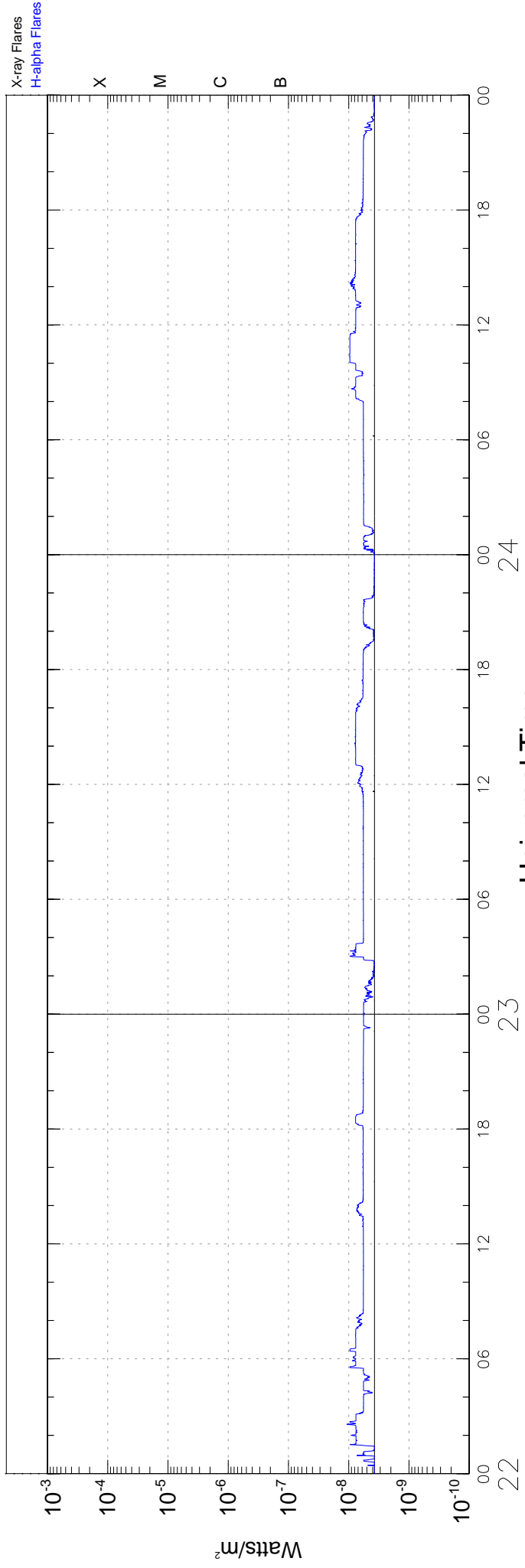
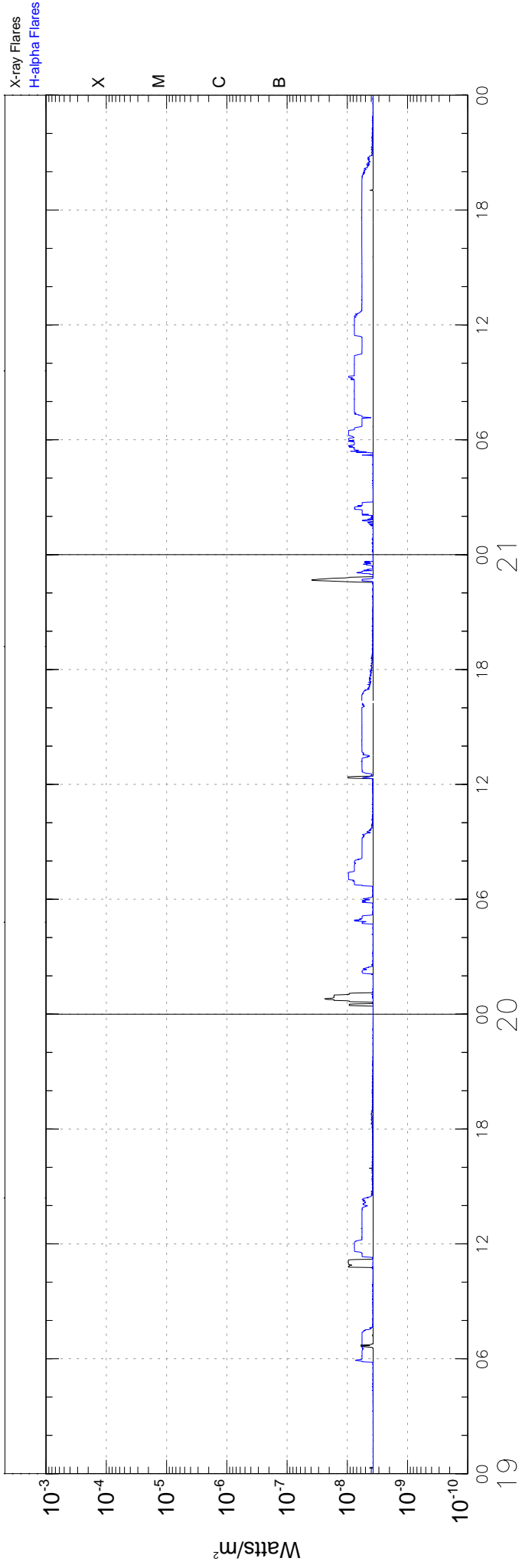


GOES-10 Solar X-Rays (1-Minute Averages) May 2008



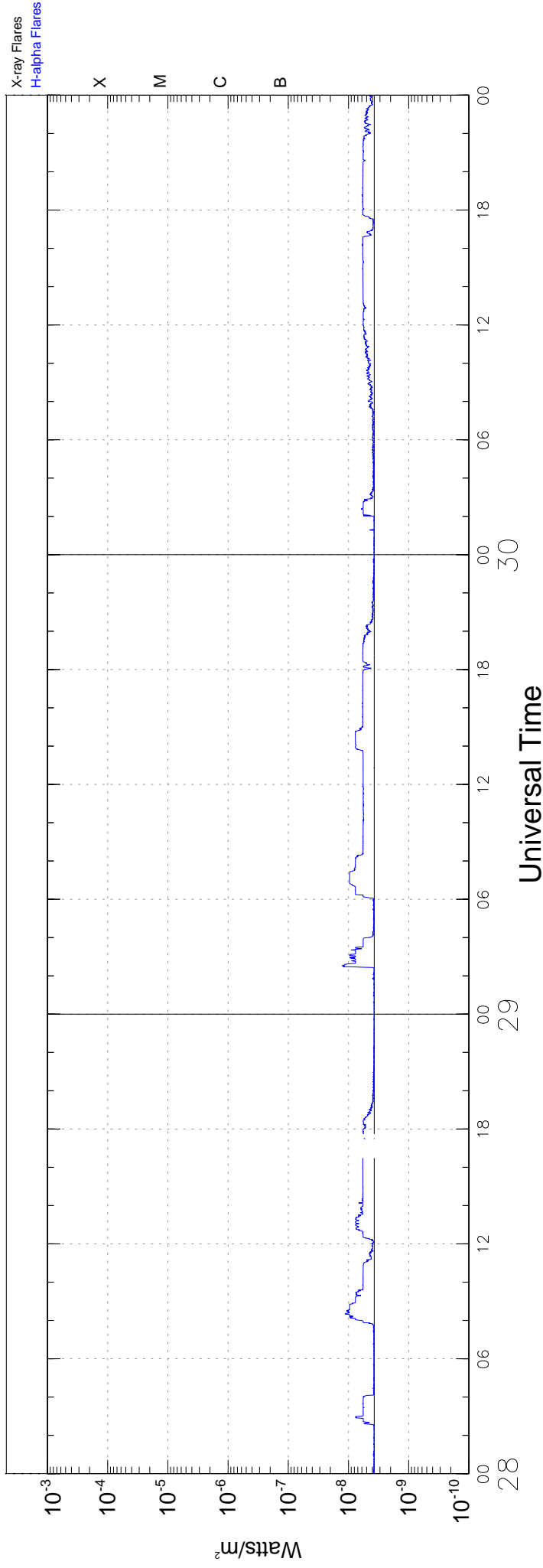
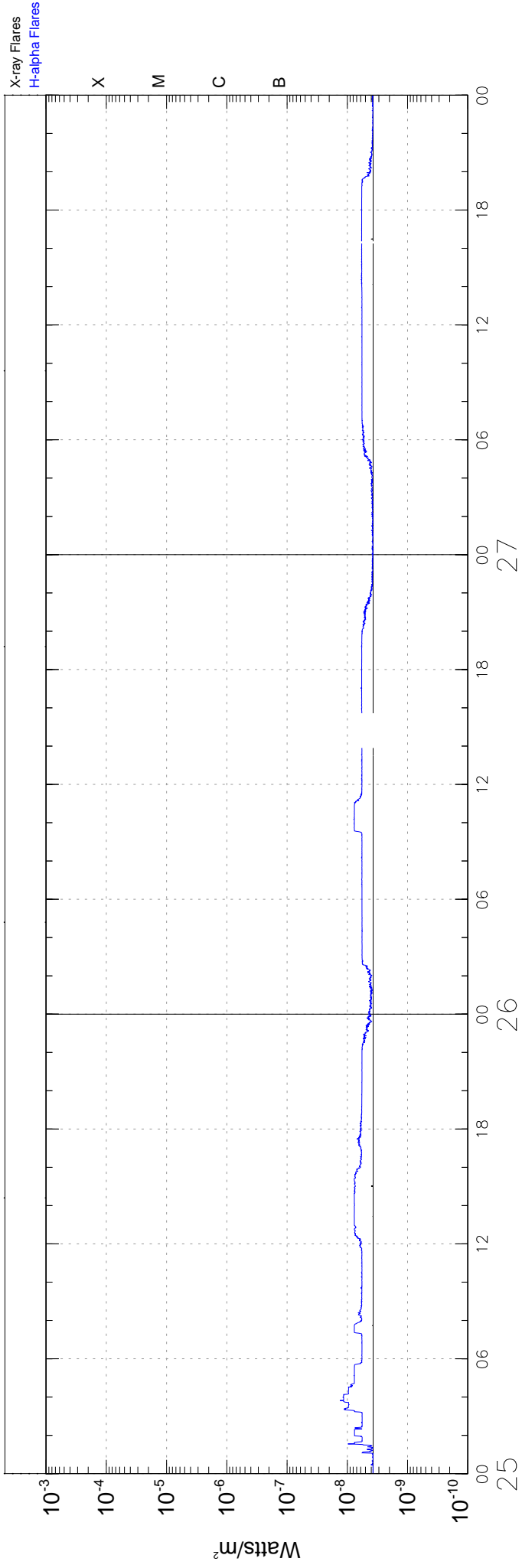
Universal Time

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

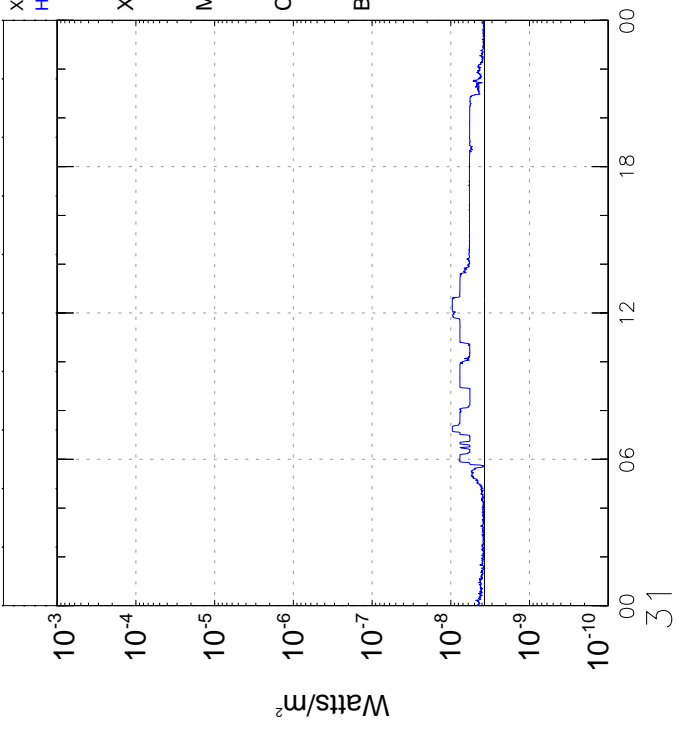


GOES-10 Solar X-Rays (1-Minute Averages)

May 2008

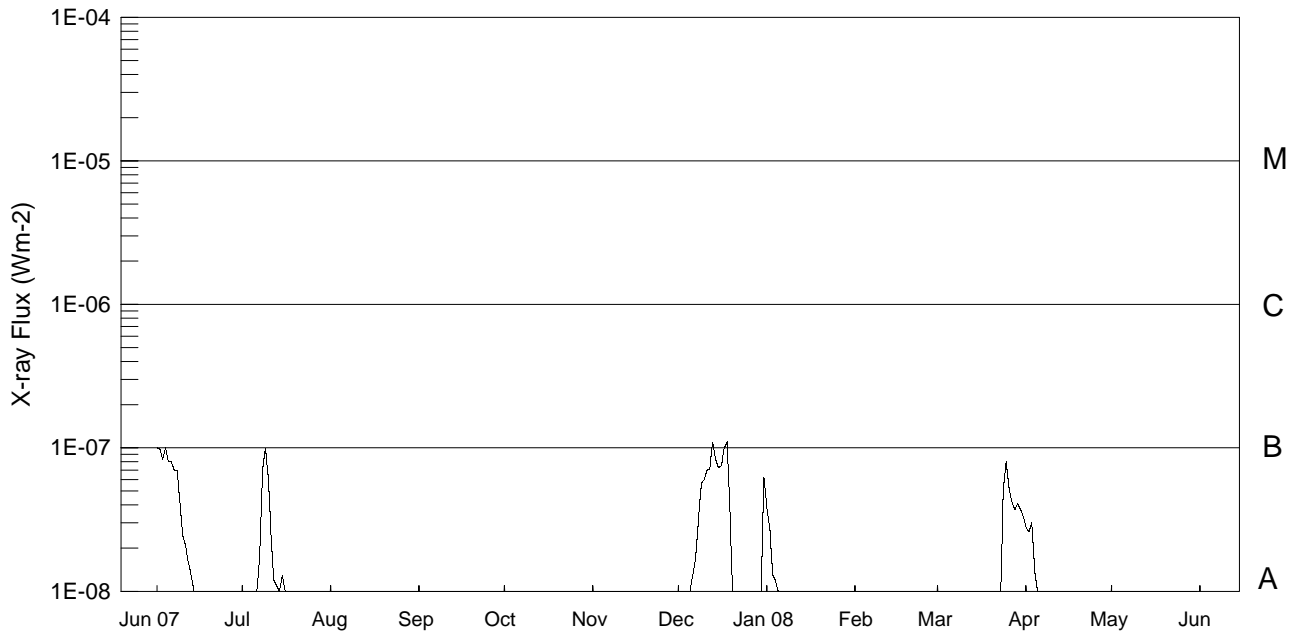


X-ray Flares
H-alpha Flares



Preliminary GOES Satellite Daily X-Ray Background Jun 2007 - May 2008

15
May 08



Day	Jun 07	Jul	Aug	Sep	Oct	Nov	Dec	Jan 08	Feb	Mar	Apr	May
1	B1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A3.8	<A1.0	<A1.0	A2.8	<A1.0
2	A9.9	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A2.7	<A1.0	<A1.0	A2.6	<A1.0
3	A8.3	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A1.3	<A1.0	<A1.0	A3.0	<A1.0
4	B1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A1.2	<A1.0	<A1.0	A1.4	<A1.0
5	A8.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A1.0	<A1.0	<A1.0	<A1.0	<A1.0
6	A8.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A1.3	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
7	A7.0	A1.7	<A1.0	<A1.0	<A1.0	<A1.0	A1.7	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
8	A7.0	A6.9	<A1.0	<A1.0	<A1.0	<A1.0	A3.2	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
9	A4.2	B1.0	<A1.0	<A1.0	<A1.0	<A1.0	A5.7	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
10	A2.5	A6.3	<A1.0	<A1.0	<A1.0	<A1.0	A6.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
11	A2.1	A2.4	<A1.0	<A1.0	<A1.0	<A1.0	A7.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
12	A1.6	A1.2	<A1.0	<A1.0	<A1.0	<A1.0	A7.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
13	A1.3	A1.1	<A1.0	<A1.0	<A1.0	<A1.0	B1.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
14	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A8.4	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
15	<A1.0	A1.3	<A1.0	<A1.0	<A1.0	<A1.0	A7.3	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
16	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A7.5	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
17	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	B1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
18	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	B1.1	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0
19	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A4.0	<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	<A1.0	<A1.0	<A1.0	<A1.0	A5.1	<A1.0	<A1.0
25	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A8.1	<A1.0	<A1.0
26	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A5.2	<A1.0	<A1.0
27	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A4.2	<A1.0	<A1.0
28	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A3.7	<A1.0	<A1.0
29	A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	A4.1	<A1.0	<A1.0
30	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0	<A1.0		A3.7	<A1.0	<A1.0
31		<A1.0	<A1.0		<A1.0		A6.2	<A1.0		A3.3		<A1.0

Levels below B1.0 are unreliable.

ACTIVE PROMINENCES AND FILAMENTS

MAY 2008

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
21	DSF	2154U	1325U	S30	E13	05	22.9	3	12	0	0	E	HOLL		
22	DSF	0734U	1338U	S19	E08	05	22.9	2	10	0	0	E	SVTO		
22	DSF	2154U	1325U	S30	E13	05	23.9	3	12	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.

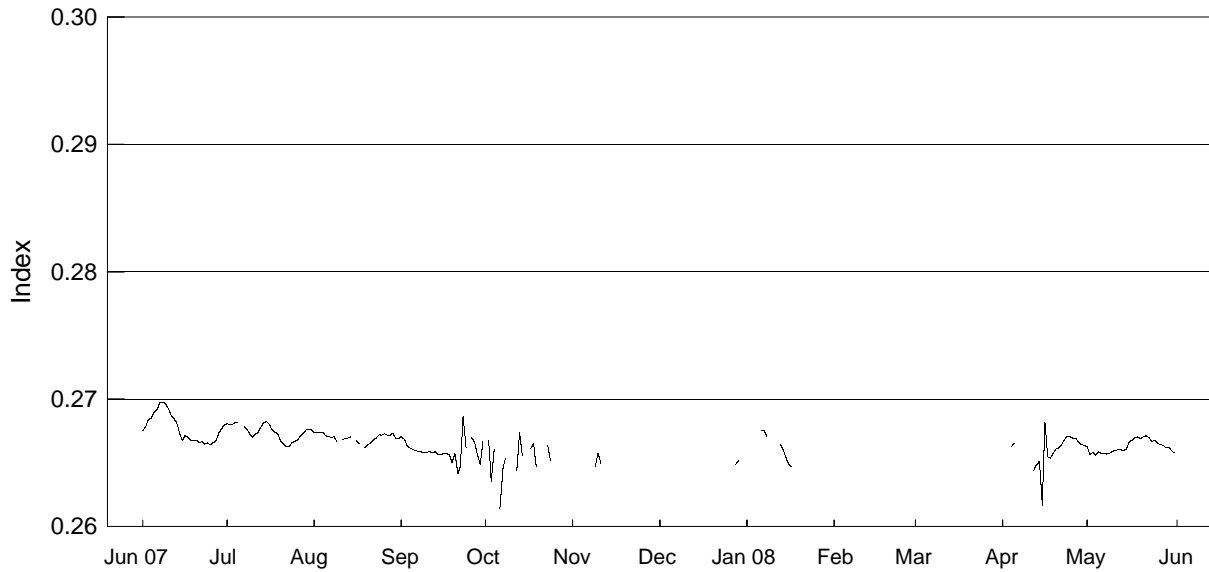
ABST = Abastumani	HOLL = Holloman	RAMY = Ramey
ATHN = Athens	KHAR = Kharkov	SVTO = San Vito
BUCA = Bucharest	LEAR = Learmonth	VORO = Voroshilov
CATA = Catania	PALE = Palehua	VALA = Valasske Mezirici
		WROC = Wroclaw

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

Jun 2007 - May 2008

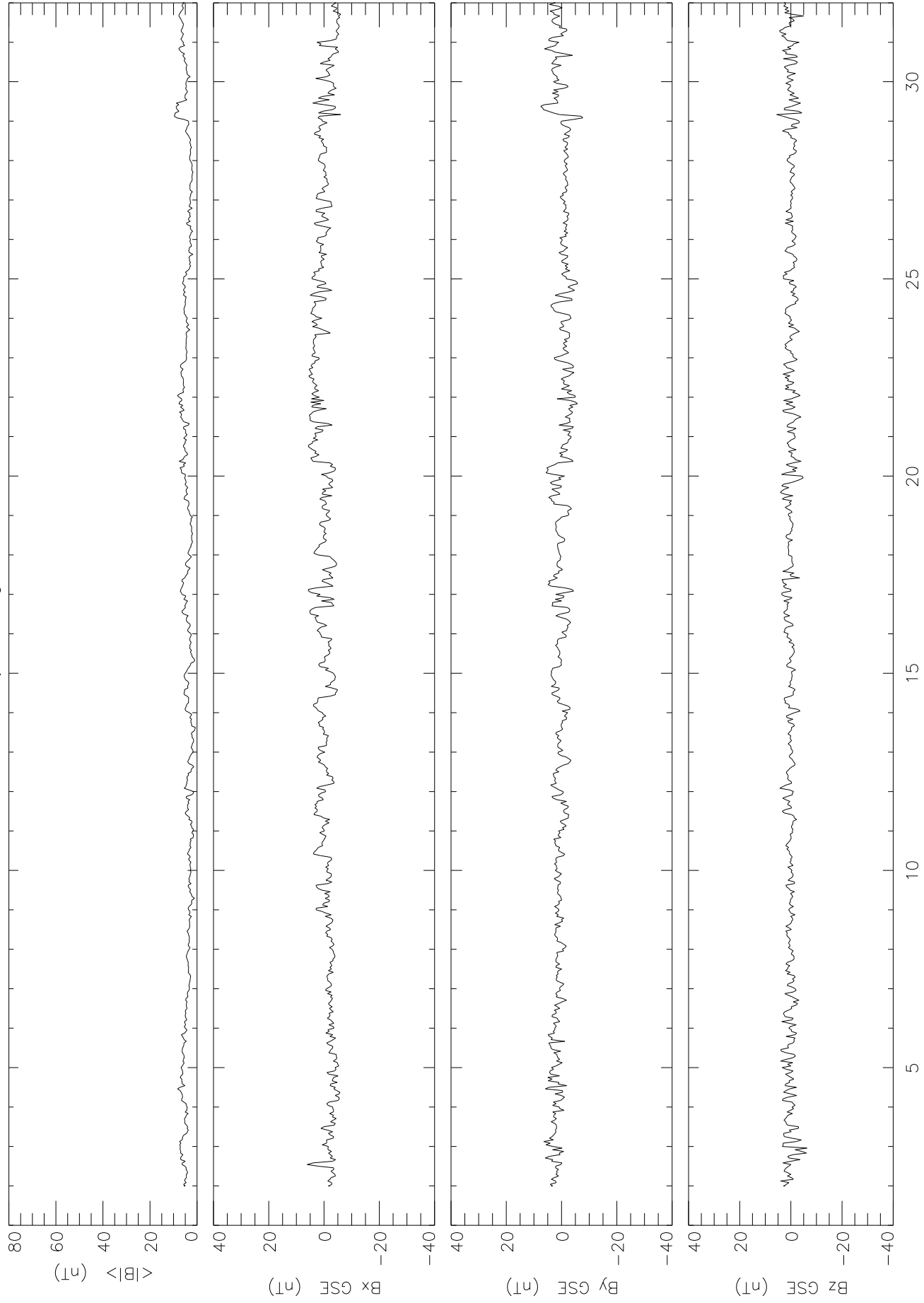
Version 9.1



Day	Jun 07	Jul	Aug	Sep	Oct	Nov	Dec	Jan 08	Feb	Mar	Apr	May
1	0.2676	0.2681	0.2674	0.2671	---	---	---	---	---	---	---	0.2663
2	0.2678	0.2680	0.2674	0.2669	0.2668	---	---	0.2658	---	---	---	0.2657
3	0.2684	0.2681	0.2674	0.2663	0.2635	---	---	---	---	---	---	0.2658
4	0.2685	0.2682	0.2674	0.2662	0.2661	---	---	---	---	---	0.2663	0.2656
5	0.2690	0.2682	0.2672	0.2661	---	---	---	---	---	---	0.2665	0.2659
6	0.2692	---	0.2671	0.2660	0.2615	---	---	0.2675	---	---	---	0.2657
7	0.2697	0.2678	0.2670	0.2659	0.2645	0.2644	---	0.2675	---	---	---	0.2657
8	0.2698	0.2677	0.2671	0.2659	0.2654	---	---	0.2671	---	---	---	0.2657
9	0.2697	0.2673	0.2667	0.2658	---	0.2647	---	---	---	---	---	0.2658
10	0.2693	0.2670	---	0.2659	---	0.2658	---	---	---	---	---	0.2659
11	0.2688	0.2673	0.2668	0.2659	---	0.2650	---	0.2527	---	---	---	0.2660
12	0.2685	0.2674	0.2669	0.2658	0.2644	---	---	---	---	---	0.2644	0.2660
13	0.2682	0.2678	0.2670	0.2659	0.2674	---	---	0.2664	---	---	0.2649	0.2660
14	0.2674	0.2681	0.2671	0.2657	0.2655	---	---	0.2659	---	---	0.2651	0.2660
15	0.2667	0.2683	---	0.2656	---	---	---	0.2653	---	---	0.2617	0.2661
16	0.2672	0.2680	0.2668	0.2657	---	---	---	0.2648	---	---	0.2682	0.2667
17	0.2670	0.2676	0.2665	0.2657	0.2661	---	---	0.2647	---	---	0.2655	0.2668
18	0.2668	0.2674	---	0.2656	0.2665	---	---	---	---	---	0.2654	0.2670
19	0.2668	0.2672	0.2662	0.2650	0.2647	---	---	---	---	---	0.2658	0.2670
20	0.2668	0.2667	0.2664	0.2657	---	---	---	---	---	---	0.2661	0.2669
21	0.2666	0.2665	0.2666	0.2641	---	---	---	---	---	---	0.2662	0.2670
22	0.2667	0.2663	0.2668	0.2647	---	---	---	---	---	---	0.2665	0.2672
23	0.2665	0.2663	0.2670	0.2687	0.2664	---	---	---	---	---	0.2669	0.2670
24	0.2666	0.2666	0.2672	0.2662	0.2652	---	0.2665	---	---	---	0.2671	0.2667
25	0.2664	0.2667	0.2672	---	---	---	---	---	---	---	0.2670	0.2668
26	0.2666	0.2668	0.2673	0.2670	---	---	---	---	---	---	0.2669	0.2666
27	0.2667	0.2671	0.2672	0.2666	---	---	---	---	---	---	0.2669	0.2664
28	0.2673	0.2673	0.2672	0.2656	---	---	0.2649	---	---	---	0.2666	0.2664
29	0.2677	0.2676	0.2673	0.2649	0.2658	---	0.2652	---	---	---	0.2664	0.2662
30	0.2680	0.2676	0.2669	0.2667	---	---	---	---	---	---	0.2664	0.2662
31	---	0.2676	0.2669	---	---	---	---	---	---	---	---	0.2660
Mean	0.2677	0.2674	0.2670	0.2660	0.2653	0.2650	0.2655	0.2661	---	---	0.2660	0.2663

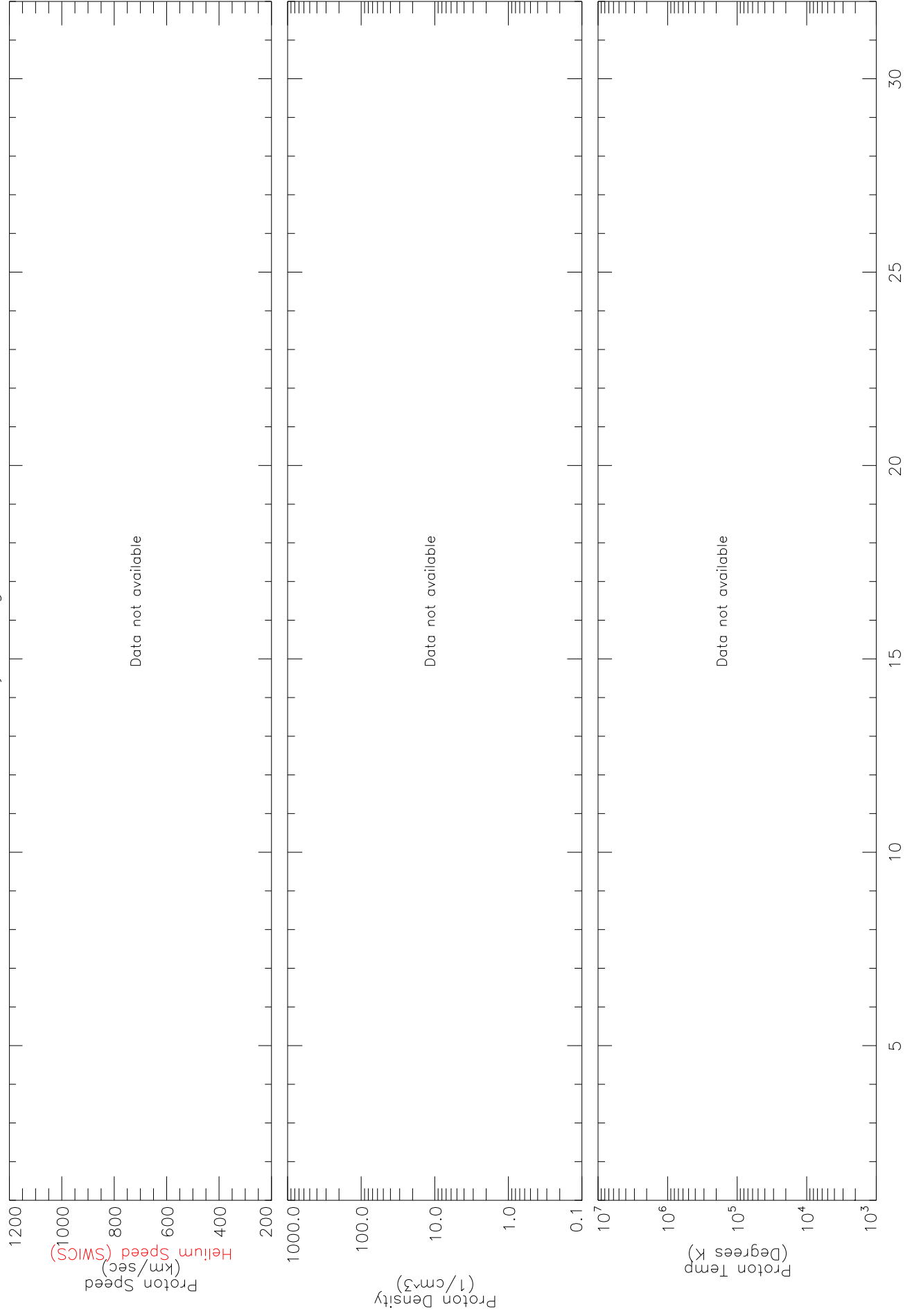
Data at: <http://www.swpc.noaa.gov/ftpmenu/sbuw.html>

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

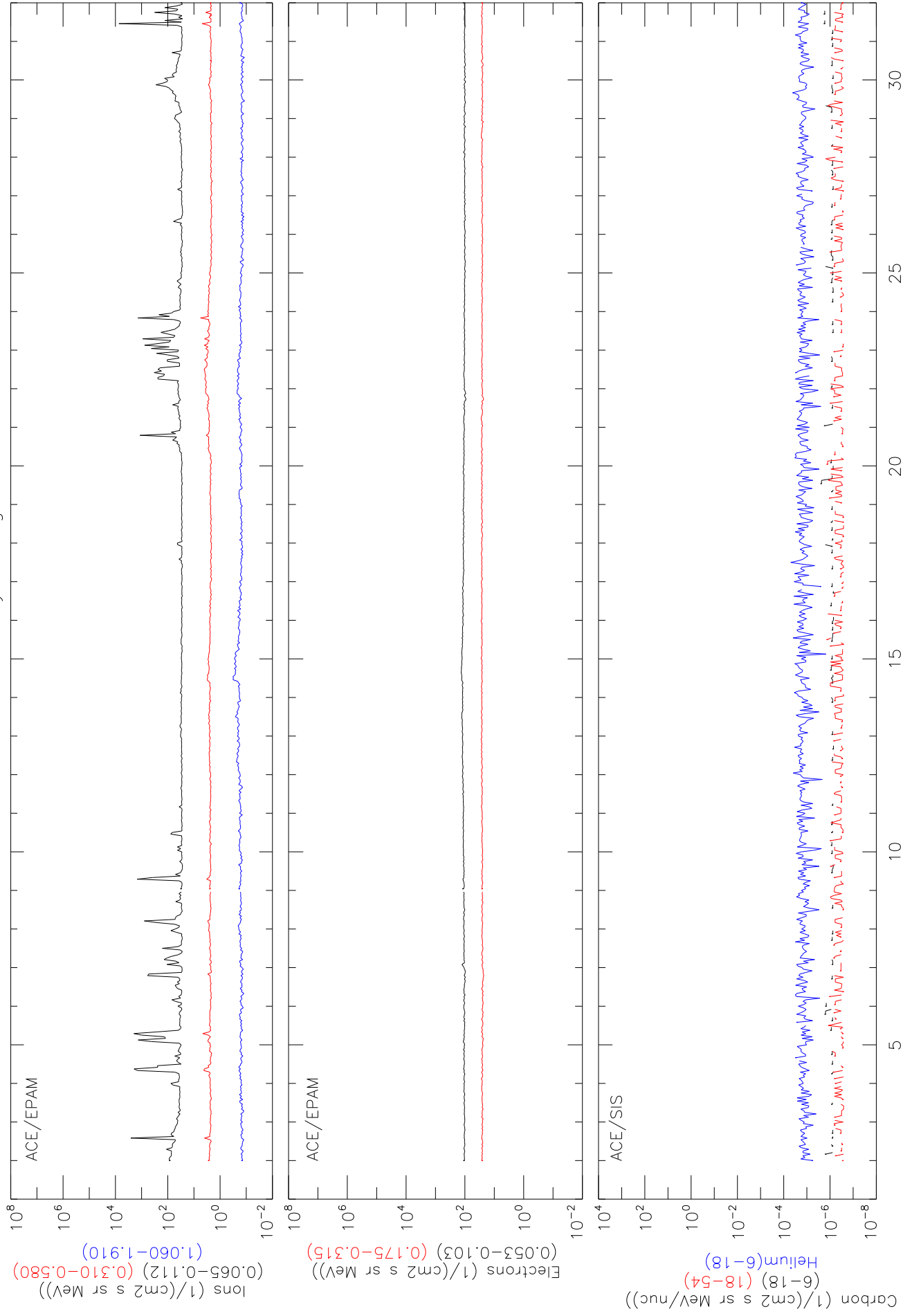


DAYS OF MAY 2008

ACE LEVEL2 DATA Solar Wind Plasma
Hourly Averages for MAY 2008, from SWEPAM



Solar Energetic Particles ACE LEVEL2 DATA Hourly Averages for MAY 2008



DAYS OF MAY 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
MAY 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	
2008/05/01	06:18:04	81	24	369	566	170	0	-21.9*	94	Very Poor; Only C3
2008/05/01	16:30:05	89	18	178	156	199	218	1.2*	91	Very Poor Event
2008/05/01	19:31:37	89	49	130	160	96	0	-1.3*	89	Poor Event
2008/05/02	06:30:04	292	21	124	75	176	545	12.1*	291	Very Poor; Only C2
2008/05/02	10:06:04	226	47	176	158	199	197	0.6*	235	Poor Event
2008/05/02	19:31:38	84	28	191	171	213	221	0.8*	85	Poor Event
2008/05/03	04:30:04	227	15	346	332	361	359	0.8*	234	Poor Event
2008/05/03	10:33:58	193	7	205	----	----	----	-----	198	Very Poor; 2pts; Only C2
2008/05/03	18:54:04	240	18	267	232	305	452	7.5*	245	Very Poor Event
2008/05/04	04:06:04	296	11	255	222	290	329	3.0*	291	Very Poor Event
2008/05/04	07:31:40	240	6	215	253	177	0	-5.7*	248	Very Poor Event
2008/05/04	11:30:04	226	7	513	307	738	2130	197.5*	233	Very Poor; 3pts; Only C2
2008/05/05	09:54:04	237	8	201	286	110	0	-23.7*	241	Very Poor; Only C2
2008/05/05	09:54:04	288	18	169	147	193	226	1.2*	290	Poor Event
2008/05/05	19:31:38	244	17	309	288	331	391	3.0*	245	Very Poor Event
2008/05/06	11:54:05	350	6	205	0	331	1269	68.1*	348	Very Poor; Only C2
2008/05/06	14:30:04	235	28	288	249	325	443	5.7*	240	Poor Event
2008/05/06	16:54:04	292	27	141	62	225	250	2.4*	289	Very Poor Event
2008/05/08	06:54:04	231	9	356	155	569	1473	94.8*	236	Poor Event; Only C2
2008/05/08	16:30:04	231	5	323	450	200	0	-71.5*	235	Very Poor; Only C2
2008/05/08	18:30:04	108	11	310	387	232	0	-11.9*	109	Poor Event
2008/05/09	00:54:05	269	10	208	200	217	226	0.5*	274	Very Poor Event
2008/05/09	07:31:37	108	6	177	163	192	320	3.1*	113	Very Poor; Only C2
2008/05/09	13:30:05	41	11	550	652	438	0	-98.9*	42	Very Poor; 3pts; Only C2
2008/05/09	20:30:04	244	8	295	123	481	1927	156.8*	249	Very Poor; 3pts; Only C2
2008/05/10	00:30:06	58	13	30	23	35	121	0.6*	60	Very Poor; Only C2
2008/05/10	03:54:07	52	9	164	128	202	321	3.7*	57	Poor Event
2008/05/10	03:54:07	100	10	235	398	84	0	-54.6*	103	Very Poor; 3pts; Only C2
2008/05/10	15:54:04	107	8	379	411	347	0	-18.5*	109	Very Poor; Only C2
2008/05/10	16:54:04	102	27	464	567	356	0	-15.2*	107	
2008/05/11	00:54:04	95	10	416	473	355	0	-32.7*	99	Poor Event; 3pts; Only C2
2008/05/11	02:18:05	93	17	429	704	168	0	-54.0*	97	Poor Event
2008/05/11	04:30:04	58	7	288	202	384	952	36.1*	59	Very Poor; 3pts; Only C2
2008/05/11	05:30:04	12	9	427	211	665	2219	210.3*	15	Very Poor; 3pts; Only C2
2008/05/11	07:31:37	59	16	195	166	226	269	1.9*	66	Very Poor Event
2008/05/11	11:06:15	356	6	364	464	264	0	-69.6*	356	Very Poor; 3pts; Only C2
2008/05/11	11:30:04	239	6	456	291	637	1924	160.3*	247	Very Poor; 3pts; Only C2
2008/05/11	20:30:04	91	9	136	94	178	540	11.9*	95	Very Poor; Only C2
2008/05/11	23:54:05	65	13	233	252	212	0	-3.5*	69	Very Poor Event
2008/05/12	08:54:04	91	8	119	137	99	0	-1.5*	93	Very Poor Event
2008/05/13	07:31:36	91	8	193	191	196	235	0.8*	92	Poor Event; Only C2
2008/05/13	18:54:04	170	4	301	310	293	0	-4.6*	169	Very Poor; Only C2
2008/05/13	23:30:04	218	7	142	----	----	----	-----	225	Very Poor; 2pts; Only C2
2008/05/14	18:06:04	120	10	296	301	291	178	-2.8*	117	Poor Event; Only C2
2008/05/14	21:30:04	119	9	277	236	317	735	22.4*	118	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
MAY 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	
2008/05/15	04:30:04	132	50	219	0	422	643	17.4*	124	Poor Event
2008/05/15	06:30:04	83	24	431	365	497	568	7.8*	89	
2008/05/16	04:54:04	114	26	180	112	249	430	7.1*	116	Poor Event
2008/05/16	09:06:04	120	15	244	195	297	367	4.1*	116	Poor Event
2008/05/16	13:30:04	274	41	136	182	87	0	-7.5*	272	Very Poor; Only C2
2008/05/16	15:30:04	123	15	167	187	147	0	-5.7*	119	Very Poor; Only C2
2008/05/17	10:36:04	119	123	630	692	562	601	-4.9	94	Partial Halo
2008/05/21	23:12:04	111	16	171	159	184	253	1.8*	108	Very Poor Event
2008/05/22	01:36:04	130	42	150	105	196	293	3.1*	135	Very Poor Event
2008/05/22	23:30:04	296	10	392	60	756	2577	318.8*	295	Very Poor; 3pts; Only C2
2008/05/23	14:54:04	236	48	225	27	430	417	7.6*	238	
2008/05/24	20:58:38	187	4	210	165	258	837	27.8*	192	Very Poor; 3pts; Only C2
2008/05/24	20:58:38	83	65	65	0	176	203	1.7*	87	Very Poor Event
2008/05/25	03:30:10	297	16	280	260	301	306	1.1*	295	Poor Event
2008/05/25	10:34:04	294	18	238	199	282	337	3.1*	298	Poor Event
2008/05/25	19:54:04	82	32	215	89	352	310	3.7*	87	Poor Event
2008/05/26	12:06:04	66	15	263	216	315	443	6.7*	72	Very Poor Event
2008/05/27	01:54:04	281	8	369	346	391	603	10.0*	280	Very Poor; Only C2
2008/05/27	04:06:04	255	24	445	519	376	0	-15.6*	260	Poor Event
2008/05/27	06:54:04	89	7	244	207	279	464	8.2*	83	Very Poor Event
2008/05/27	07:31:43	247	34	477	401	555	687	13.3*	264	
2008/05/27	18:06:04	293	12	215	192	239	395	5.6*	293	Very Poor Event
2008/05/28	05:30:05	102	31	166	153	179	389	5.2*	97	Very Poor; Only C2
2008/05/29	18:06:04	328	7	196	26	372	1274	67.4*	325	Very Poor; 3pts; Only C2
2008/05/30	02:54:28	85	16	129	214	44	0	-47.2*	84	Very Poor; Only C2
2008/05/30	09:30:04	272	5	256	161	361	1495	92.9*	277	Very Poor; 3pts; Only C2
2008/05/30	23:30:04	283	17	259	155	358	776	23.8*	288	Very Poor; Only C2
2008/05/31	03:54:08	168	6	255	----	----	----	-----	163	Very Poor; 2pts; Only C2

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

=====