

FEBRUARY 2006 NUMBER 738 - Part II



Solar-Geophysical Data comprehensive reports

Data for August 2005 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**

NGDC On-Line Addresses:

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

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL
DATA CENTER

BOULDER,
COLORADO



U.S. DEPARTMENT OF COMMERCE

Carlos M. Gutierrez, Secretary

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Vice Admiral Conrad C. Lautenbacher, Jr., Under Secretary/Administrator

NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

Gregory W. Withee, Assistant Administrator

FEBRUARY 2006 NUMBER 738 - Part II

Solar-Geophysical Data comprehensive reports

Data for August 2005 and Late Data

International Standard Serial Number: 0038-0911

Library of Congress Catalog Number: 79-640375 //r81

NATIONAL GEOPHYSICAL DATA CENTER

Christopher G. Fox, Director

Boulder, Colorado

Subscription information is on the inside back cover.

SOLAR-GEOPHYSICAL DATA

Number 738
(Issued in Two Parts)

Editor: Helen E. Coffey

Division Chief: William F. Denig
Solar-Terrestrial Physics Division

Staff: Edward H. Erwin

CONTENTS

PART I (PROMPT REPORTS)

Page

DETAILED INDEX FOR 2005-2006	2
DATA FOR JANUARY 2006	3- 33
DATA FOR DECEMBER 2005	35-115

PART II (COMPREHENSIVE REPORTS)

Page

DETAILED INDEX FOR 2005-2006	2
DATA FOR AUGUST 2005	3- 35

INCLUDING:

ACE SOLAR WIND, INTERPLANETARY MAGNETIC FIELD AND PARTICLES

-- MONTHLY PLOTS

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

CODE	KIND OF OBSERVATION	JUN 06	JUL	AUG	SEP	OCT	NOV	DEC	JAN 06
A. SOLAR AND INTERPLANETARY									
A.1	Sunspot Drawings	732A 46	733A 44	734A 41	735A 37	736A 42	737A 44	738A 48	
A.2aa	International Sunspot Numbers	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23	737A 25	738A 24
A.2c	American Sunspot Numbers	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23	737A 25	738A 24
A.3a	Mt. Wilson Magnetograms	732A 46	733A 44	734A 41	735A 37	736A 42	737A 44	738A 48	
A.3b	Sunspot Mag Class and Regions	732A 81	733A 81	734A 78	735A 72	736A 79	737A 79	738A 85	
A.3c	Kitt Peak Magnetograms	732A 46	733A 44	734A 41	735A 37	736A 42	737A 44	738A 48	
A.3d	Mean Solar Magnetic Field (Stanford)	731A 35	732A 37	733A 35	734A 33	735A 31	736A 31	737A 33	738A 31
A.3e	Stanford Magnetograms	732A 46	733A 44	734A 41	735A 37	736A 42	737A 44	738A 48	
A.4	H-alpha Filtergrams	732A 46	733A 44	734A 41	735A 37	736A 42	737A 44	738A 48	
A.5d	Photometric Ca II Faculae San Fernando	Jan 92-Dec 96 631B 22; 1997-1998 663B 66							
A.6c	Stanford Solar Mag Field Synoptic Map	732A 40	733A 38	734A 38	735A 34	736A 36	737A 38	738A 36	
A.6d	Kitt Peak Solar Mag Field Synoptic Map	732A 45	733A 43	734A 40	735A 36	736A 41	737A 43	738A 46	
A.6f	Active Prominences and Filaments	736B 30	737B 36	738B 28					
A.6g	Sac Peak Coronal Line Synoptic Maps	732A 46	733A 40			736A 38	737A 40	738A 40	
A.6h	Photometric White Light San Fernando	Jul-Dec 96 630B 32; 1997-1998 in 663B 51							
A.7h	Coronal Line Emission (Sac Peak)	732A 46	733A 44	734A 41	735A 37	736A 42	737A 44	738A 48	
A.7j	Coronal Hole Daily Maps (NSO/KP)								
A.7k	Coronal Index (Slovak Academy)	1939-1996 -644B 28							
A.7m	Coronal Mass Ejections (CSPSW)	736B 35	737B 41	738B 33					
A.8aa	2800 MHz- Solar Flux (Penticton)	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23	737A 25	738A 24
A.8ac	2800 MHz- Adj. Solar Flux (Penticton)	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23	737A 25	738A 24
A.8g	Adjusted Daily Solar Fluxes Sagamore	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23	737A 25	738A 24
A.10g	Nancay Radioheliograph 164&327MHz	732A104	733A105	734A 96	735A 86	736A 87	737A 89	738A 99	
A.10h	Nobeyama Radioheliograph - 17 GHz	732A 76	733A 75	734A 72	735A 67	736A 73	737A 74	738A 79	
A.11g	Solar X-ray GOES (graphs)	736B 24	737B 29	738B 21					
A.11g	Solar X-ray GOES (event table)	731A 29	732A 30	733A 29	734A 28	735A 27	736A 26	737A 29	738A 28
A.11k	Solar UV NOAA-9	May 86-Dec 88 in 566B 84							
A.11l	Solar UV NIMBUS7	Nov 78-Oct 84 in 542B 82							
A.11m	Solar UV SOLSTICE (UARS)	Oct 91-Sep 94 in 607B 46							
A.11o	Solar UV SUSIM (UARS)	Oct 91-Jan 97 in 629B 30							
A.11p	Solar UV Mg II Daily Index	736B 31	737B 37	738B 29					
A.12g	Solar Particles (GOES)	731A 4	732A 4	733A 4	734A 4	735A 4	736A 4	737A 4	738A 4
A.12i	Solar Energetic Particles (ACE)	736B 34	737B 40	738B 32					
A.13g	Solar Plasma (ACE)	736B 33	737A 39	738B 31					
A.16c	ERBS, NOAA-9 & -10 Solar Irradiance	ERBS Oct 84-Jun 00 in 671B 36							
A.16d	UARS Solar Irradiance	Oct 91-May 2001 684B 26 - Complete Mission							
A.16e	VIRGO/SOHO Solar Irradiance	Jan 96-Sep 00 in 678B 46							
A.17c	Inferred Interplanetary Mag Field	1984-1988 data in 542A168; 1989-Jan 94 in 611A118							
A.17d	ACE Interplanetary Mag Field	736B 32	737B 38	738B 30					
C. SOLAR FLARE-ASSOCIATED EVENT									
C.1a	H-alpha Flares	731A 27	732A 28	733A 28	734A 26	735A 27	736A 26	737A 28	738A 27
C.1ba	H-alpha Flare Groups	736B 4	737B 4	738B 4					
C.1d	Flare Patrol Observations	736B 9	737B 10	738B 8					
C.1h	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							
C.3	Radio Bursts Fixed Frequency	736B 11	737B 12	738B 10					
C.3	Radio Bursts Fixed Frequency Select	731A 33	732A 34	733A 32	734A 31	735A 29	736A 30	737A 32	738A 30
C.4	Radio Bursts Spectral	732A 91	733A 91	734A 88	735A 80	736A 82	737A 83	738A 94	
C.6	Sudden Ionospheric Disturbances	732A 89	733A 89	734A 86	735A 77	736A 81	737A 82	738A 93	
D. GEOMAGNETIC EVENTS									
D.1a	Geomagnetic Indices	732A113	733A113	734A104	735A 92	736A 92	737A 97	738A107	
D.1ba	27-day Chart of Kp Indices	732A115	733A115	734A106	735A 94	736A 94	737A 99	738A109	
D.1cb	Monthly Mean aa Indices	732A116	733A116	734A107	735A 95	736A 95	737A100	738A110	
D.1d	Principal Magnetic Storms	732A120	733A120	734A111	735A 99	736A 99	737A104	738A114	
D.1f	Sudden Commencements/Flare Effect	732A121	733A121	734A112	735A100	736A100	737A105	738A115	
D.1g	Equatorial Indices Dst	732A118	733A118	734A109	735A 97	736A 97	737A 102	738A112	
D.1i	Polar Cap (PC) Index	732A119	733A119	734A110	735A 98	736A 98	737A103	738A113	
F. COSMIC RAYS									
F.1b	Cosmic Ray Neutron Cts (Climax)	732A107	733A107	734A 98	735A 88	736A 88	737A 91	738A101	
F.1h	Cosmic Ray Neutron Cts (Thule)	732A107	733A107	734A 98	735A 88	736A 88	737A 91	738A101	
F.1i	Cosmic Ray Neutron Cts (Kiel)	732A107	733A107	734A 98	735A 88	736A 88	737A 91	738A101	
F.1n	Cosmic Ray Neutron Cts (Beijing)	732A107	733A107	734A 98	735A 88	736A 88	737A 91	738A101	
F.1m	Cosmic Ray Neutron Cts (Haleakala)	732A107	733A107	734A 98	735A 88	736A 88	737A 91	738A101	
F.1o	Cosmic Ray Neutron Cts (Moscow)	732A107	733A107	734A 98	735A 88	736A 88	737A 91	738A101	
F.1p	Cosmic Ray Neutron Cts (Cargary)	732A107	733A107	734A 98	735A 88	736A 88	737A 91	738A101	
H. MISCELLANEOUS									
H.60	ISES Alert Periods	731A 19	732A 20	733A 20	734A 19	735A 20	736A 19	737A 20	738A 20

The entry "732A 46" under Jun, for example, means that the sunspot drawings for Jun appear in SOLAR-GEOPHYSICAL DATA No. 732 Part I, and that they begin on page 46 "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

CONTENTS

Comprehensive Reports

Number 738 Part II

DATA FOR AUGUST 2005

	Page
SOLAR FLARES	
H-alpha Solar Flare Groups	4- 7
Intervals of No Flare Patrol Observation	8
Number of Solar Flares January 1965-present	9
SOLAR RADIO BURSTS AT FIXED FREQUENCIES	10-20
SOLAR X-RAY RADIATION FROM GOES SATELLITE	
Graphs	21-26
Preliminary Event List -- See Solar X-ray Flare List in the September 05 Prompt Reports	
Preliminary Daily Average Background	27
ACTIVE PROMINENCES AND FILAMENTS	28
SOLAR ULTRAVIOLET DAILY DATA FROM NOAA SATELLITE	
NOAA Mg II Daily Index Version 9.1	29
INTERPLANETARY ENVIRONMENT HOURLY AVERAGE PLOTS	
FROM ADVANCED COMPOSITION EXPLORER (ACE) SATELLITE	
Interplanetary Magnetic Field -- MAG	30
Solar Wind Plasma -- SWEPAM	31
Solar Energetic Particles -- EPAM/SIS (Ions, Electrons, and Carbon)	32
SOLAR CORONAL MASS EJECTIONS from SOHO/LASCO SATELLITE	
Table of Events	33-35



4
Aug 05

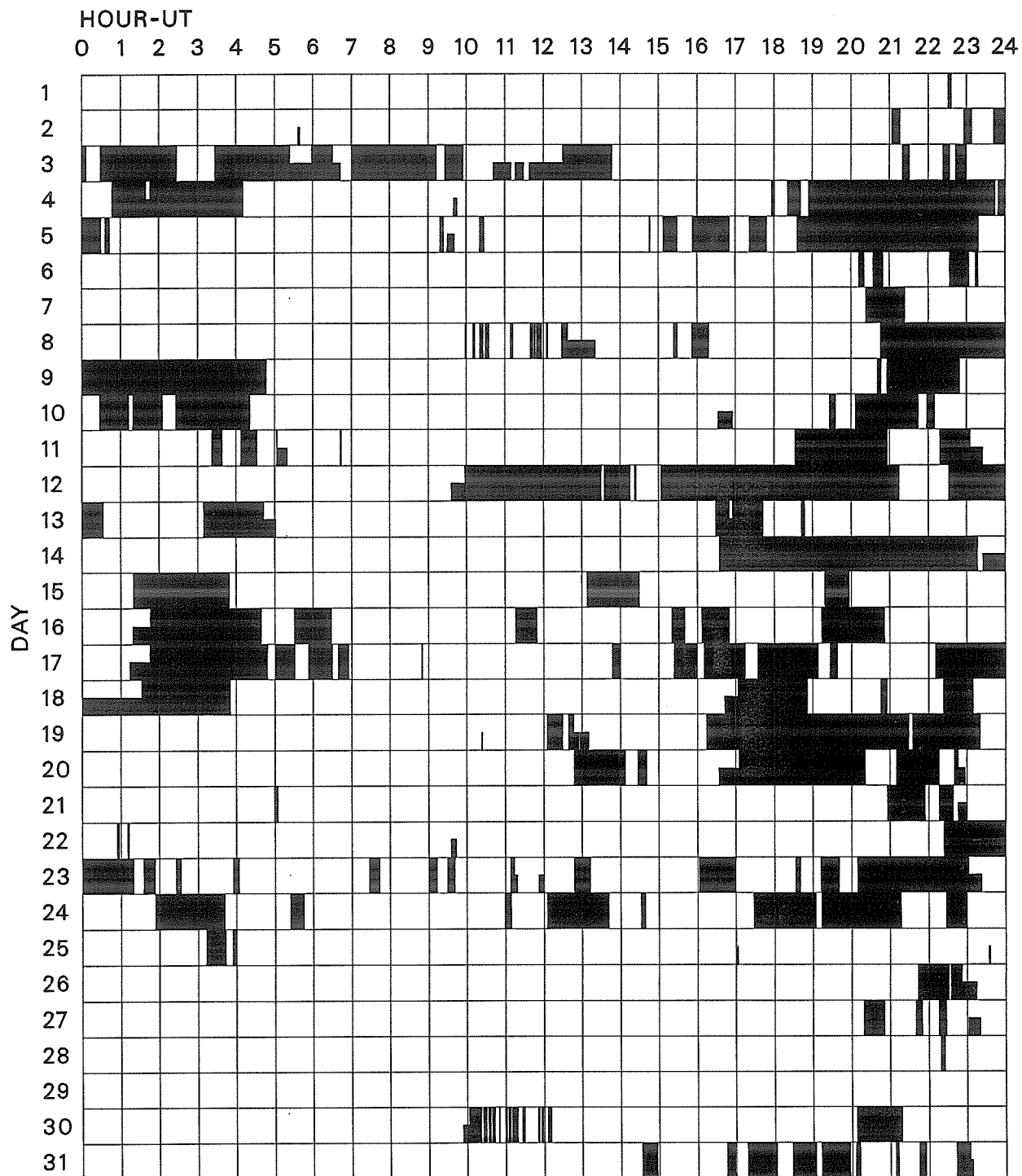
H α S O L A R F L A R E S

AUGUST 2005

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0001	LEAR	01	0517	0518	0525	N12	E35	10792	08	3.8	8	SF		3	E		16		F	
0002	KANZ	01	1218	1220	1221	S12	E61	10794	08	6.1	3	SF		2	E					
0003		01	1315*	13406	1436	N14	E29	10792	08	3.7	81	1F					185		EF	
	KANZ	01	1315	1346	1432	N13	E28	10792	08	3.7	77	1F		2	E					
	HOLL	01	1337	1340	1439	N15	E30	10792	08	3.8	62	1F		3	E		185		FE	
0004	SVTO	01	1343	1351	1414	N14	E31	10792	08	3.9	31	SF		3	E		27		FH	
		01	2231		2236	No Flare Patrol														
0005	KANZ	02	1239	1244	1249D	N08	E19	10792	08	3.9	10D	SF		2	E					
0006	HOLL	02	1825	1831	1903	S12	E47	10794	08	6.3	38	1N		3	E		155		EF	
0007	HOLL	02	2015	2015U	2027	N12	E14	10792	08	3.9	12	SN		3	E		78		F	
		02	2104		2116	No Flare Patrol														
		02	2256		2308	No Flare Patrol														
		02	2342		2400	No Flare Patrol														
		03	0000		0006	No Flare Patrol														
		03	0029		0227	No Flare Patrol														
0008	LEAR	03	0241	0243	0248	N12	E10	10792	08	3.9	7	SF		2	E		19			
0009	LEAR	03	0249	0251	0254	N12	E10	10792	08	3.9	5	SF		2	E		24			
		03	0327		0524	No Flare Patrol														
0010	LEAR	03	0458	0503	0533D	S11	E36	10794	08	5.9	35D	1N		2	E		205		F	
0011	SVTO	03	0525E	0525U	0535	S13	E42	10794	08	6.4	10D	SF		2	E		89		H	
		03	0558		0631	No Flare Patrol														
		03	0702		0913	No Flare Patrol														
		03	0926		0955	No Flare Patrol														
		03	1231		1347	No Flare Patrol														
0012	HOLL	03	1354	1407	1437	S12	E37	10794	08	6.4	43	SF		3	E		67		FH	
0013	HOLL	03	2021	2022	2029	N08	W08	10792	08	3.2	8	SF		3	E		18		F	
		03	2120		2131	No Flare Patrol														
		03	2223		2234	No Flare Patrol														
		03	2243		2259	No Flare Patrol														
		04	0047		0140	No Flare Patrol														
		04	0146		0411	No Flare Patrol														
0014	LEAR	04	0528	0532	0538	N12	W05	10792	08	3.8	10	SF		3	E		33			
0015		04	05447	05526	0618	S11	E22	10794	08	5.9	34	SF					53		F	
	LEAR	04	0544	0558	0626	S11	E22	10794	08	5.9	42	SF		3	E		89		F	
	SVTO	04	0551	0552	0611	S11	E22	10794	08	5.9	20	SF		3	E		17		F	
		04	1757		1801	No Flare Patrol														
		04	1822		1842	No Flare Patrol														
0016	HOLL	04	1853	1853U	1900	S11	E19	10794	08	6.2	7	SF		3	E		14			
		04	1854		2345	No Flare Patrol														
		04	2350		2400	No Flare Patrol														
		05	0000		0030	No Flare Patrol														
		05	0036		0043	No Flare Patrol														
0017		05	07101	07148	0801	N12	W19	10792	08	3.9	51	SF					19		FH	
	LEAR	05	0710	0714	0803	N12	W19	10792	08	3.9	53	SF		3	E		16		FH	
	KANZ	05	0711	0722	0759	N11	W20	10792	08	3.8	48	SF		2	E					
	SVTO	05	0721E	0729U	0744D	N12	W17	10792	08	4.0	23D	SF		2	E		22			

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

AUGUST 2005



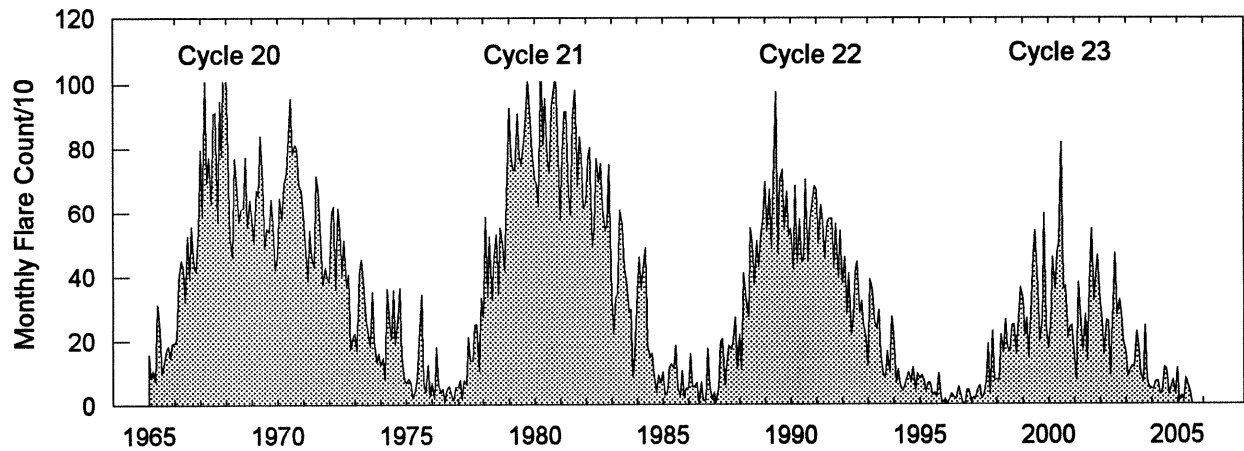
Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic); portions of a panel with only the bottom half shaded mark times of only visual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

Holloman
Kanzelhoehe

Learmonth
Kharkov

San Vito

Monthly Counts of Grouped Solar Flares Jan 1965 -Aug 2005



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					417

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

10
Aug 05

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

AUGUST 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
01	127	TORN	43 NS	0740.0		440.0		60.0		V=1
	245	SVTO	8 S	0933.0	0933.0		U	62.0		QL=4 ST=2 TYP=3
	245	SGMR	8 S	1206.0	1206.0		U	95.0		QL=4 ST=2 TYP=3
	610	SVTO	48 C	1214.0	1217.0	706.0		3900.0		QL=4 ST=1 TYP=8
	245	SVTO	49 GB	1217.0	1217.0	3.0		860.0		QL=4 ST=2 TYP=6
	610	SVTO	49 GB	1217.0	1218.0	1.0		1300.0		QL=2 ST=2 TYP=6
	410	SVTO	8 S	1217.0	1218.0	1.0		210.0		QL=2 ST=2 TYP=3
	1415	SVTO	8 S	1217.0	1217.0	1.0		90.0		QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1217.0	1218.0	2.0		180.0		QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1217.0	1218.0	2.0		320.0		QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1217.0	1218.0	2.0		180.0		QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1217.0	1218.0	1.0		96.0		QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1217.0	1218.0	703.0		200.0		QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	1217.0	1218.0	703.0		94.0		QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	1217.0	1218.0	703.0		150.0		QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	1217.0	1218.0	703.0		240.0		QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	1217.0	1218.0	703.0		150.0		QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1217.0	1218.0	703.0		82.0		QL=4 ST=1 TYP=3
	127	TORN	47 GB	1217.2	1218.1	6.0		500.0U	110.0	DISTURBED
	610	SGMR	4 S/F	1218.0	1218.0	702.0		21.0		QL=4 ST=1 TYP=3
	1415	SVTO	48 C	1328.0	1413.0	49.0		290.0		QL=4 ST=2 TYP=8
	4995	SVTO	48 C	1328.0	1343.0	48.0		470.0		QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1328.0	1343.0	43.0		360.0		QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1329.0	1347.0	47.0		290.0		QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1329.0	1343.0	47.0		180.0		QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1338.0	1343.0	22.0		120.0		QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1338.0	1347.0	36.0		280.0		QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1338.0	1343.0	34.0		360.0		QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1338.0	1343.0	33.0		320.0		QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1338.0	1347.0	622.0		280.0		QL=4 ST=1 TYP=8
	410	SGMR	48 C	1341.0	1350.0	37.0		340.0		QL=4 ST=2 TYP=8
	610	SGMR	48 C	1341.0	1343.0	37.0		330.0		QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1341.0	1413.0	36.0		350.0		QL=4 ST=2 TYP=8
	410	SVTO	4 S/F	1341.0	1350.0	37.0		340.0		QL=2 ST=2 TYP=3
	410	SGMR	48 C	1341.0	1349.0	619.0		140.0		QL=4 ST=1 TYP=8
	610	SGMR	48 C	1341.0	1343.0	619.0		330.0		QL=4 ST=1 TYP=8
	1415	SGMR	48 C	1341.0	1347.0	619.0		130.0		QL=4 ST=1 TYP=8
	610	SVTO	48 C	1342.0	1343.0	7.0		340.0		QL=2 ST=2 TYP=8
	245	SGMR	48 C	1343.0	1358.0	36.0		100.0		QL=4 ST=2 TYP=8
	245	SVTO	48 C	1345.0	1349.0	33.0		580.0		QL=4 ST=2 TYP=8
	127	TORN	49 GB	1355.0	1405.6	30.0		790.0	590.0	
	245	SVTO	8 S	1544.0	1545.0	1.0		340.0		QL=4 ST=2 TYP=3
	245	SGMR	8 S	1545.0	1545.0		U	350.0		QL=4 ST=2 TYP=3
	245	SGMR	8 S	1627.0	1627.0	1.0		130.0		QL=4 ST=2 TYP=3
	410	SGMR	8 S	1627.0	1627.0	1.0		140.0		QL=4 ST=2 TYP=3
	245	SVTO	8 S	1627.0	1627.0		U	130.0		QL=4 ST=2 TYP=3
	410	SVTO	8 S	1627.0	1627.0		U	160.0		QL=4 ST=2 TYP=3
	410	SGMR	8 S	1920.0	1920.0		U	120.0		QL=4 ST=2 TYP=3
	245	SGMR	8 S	2003.0	2004.0	1.0		78.0		QL=4 ST=2 TYP=3
	245	PALE	8 S	2004.0	2004.0	2.0		99.0		QL=4 ST=2 TYP=3
02	127	TORN	43 NS	0705.0		385.0		9.0		V=1
	245	LEAR	8 S	0057.0	0057.0		U	62.0		QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0057.0	0100.3	11.0		10.8		
	245	LEAR	8 S	0100.0	0100.0		U	63.0		QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0300.0	0303.9	7.0		12.7		
	245	LEAR	8 S	0350.0	0350.0		U	170.0		QL=4 ST=2 TYP=3
	245	PALE	8 S	0350.0	0351.0	1.0		150.0		QL=4 ST=2 TYP=3
	245	LEAR	8 S	0549.0	0549.0	1.0		66.0		QL=4 ST=2 TYP=3
	245	SVTO	8 S	0550.0	0550.0		U	61.0		QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0733.0	0736.4	12.0		52.5		
	2950	GORK	46 C	0734.5	0736.4	12.6		83.0		
	2950	GORK	46 C	0734.5	0738.7			45.0		
	9100	GORK	46 C	0735.8	0736.8	5.1		19.0		
	2800	HIRA	7 C	0736.0	0737.0	6.0		35.0		WR
	1415	SVTO	8 S	0736.0	0736.0	1.0		30.0		QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0736.0	0739.0	4.0		87.0		QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0738.0	0738.0	1.0		42.0		QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0738.0	0739.0	2.0		46.0		QL=4 ST=2 TYP=3

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

11
Aug 05

AUGUST 2005

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	9100	GORK	46 C	0738.5	0738.9		47.0			
	245	LEAR	8 S	0739.0	0739.0	U	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0739.0	0739.0	U	180.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1136.0	1137.0	4.0				
	245	SGMR	8 S	1137.0	1137.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1239.0	1239.0	5.0	300.0			QL=4 ST=2 TYP=8
	410	SGMR	4 S/F	1239.0	1239.0	3.0	84.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1239.0	1240.0	4.0	61.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1239.0	1244.0	7.0	1700.0			QL=4 ST=2 TYP=8
	410	SVTO	4 S/F	1239.0	1239.0	3.0	140.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1239.0	1240.0	3.0	46.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1239.0	1242.0	6.0	210.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1239.0	1239.0	681.0	84.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	1239.0	1240.0	681.0	61.0			QL=4 ST=1 TYP=3
	410	SVTO	4 S/F	1239.0	1239.0	681.0	140.0			QL=4 ST=1 TYP=3
	610	SGMR	8 S	1240.0	1240.0	2.0	24.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1240.0	1242.0	3.0	200.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1240.0	1242.0	3.0	200.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1240.0	1242.0	3.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1240.0	1242.0	4.0	240.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1240.0	1242.0	3.0	200.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1240.0	1242.0	3.0	120.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1240.0	1240.0	680.0	24.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1240.0	1242.0	680.0	170.0			QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	1240.0	1242.0	680.0	150.0			QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1240.0	1242.0	680.0	62.0			QL=4 ST=1 TYP=3
	15400	SVTO	4 S/F	1240.0	1242.0	680.0	60.0			QL=4 ST=1 TYP=3
	33	UPIC	46 C	1240.5	1241.0	8.5				
	127	TORN	47 GB	1240.5	1242.1	9.0	510.0	90.0		
	2695	SGMR	4 S/F	1241.0	1242.0	3.0	230.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1241.0	1242.0	679.0	210.0			QL=4 ST=1 TYP=3
	245	SGMR	8 S	1331.0	1331.0	U	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1331.0	1331.0	U	61.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	1825.0	1825.0	6.0	1200.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	1825.0	1827.0	6.0	170.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1825.0	1825.0	4.0	1100.0			QL=4 ST=2 TYP=8
	410	SGMR	4 S/F	1825.0	1826.0	4.0	130.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1825.0	1826.0	3.0	170.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1825.0	1826.0	4.0	160.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1825.0	1826.0	4.0	190.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	1825.0	1826.0	335.0	120.0			QL=4 ST=1 TYP=3
	4995	PALE	48 C	1826.0	1827.0	5.0	190.0			QL=4 ST=2 TYP=8
	410	PALE	8 S	1826.0	1826.0	2.0	130.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1826.0	1827.0	2.0	140.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	1826.0	1827.0	3.0	180.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	1826.0	1827.0	5.0	140.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1826.0	1827.0	2.0	140.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1826.0	1826.0	3.0	140.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1826.0	1826.0	3.0	54.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1826.0	1826.0	334.0	92.0			QL=4 ST=1 TYP=3
1415	PALE	4 S/F	1826.0	1826.0	334.0	120.0			QL=4 ST=1 TYP=3	
4995	PALE	4 S/F	1826.0	1826.0	334.0	100.0			QL=4 ST=1 TYP=3	
15400	PALE	8 S	1831.0	1831.0	U	59.0			QL=4 ST=2 TYP=3	
245	PALE	4 S/F	1918.0	1918.0	3.0	79.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1918.0	1918.0	2.0	65.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2011.0	2011.0	U	350.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	2013.0	2013.0	U	60.0			QL=4 ST=2 TYP=3	
410	SGMR	48 C	2013.0	2013.0	3.0	190.0			QL=4 ST=2 TYP=8	
410	SGMR	8 S	2013.0	2013.0	2.0	190.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	2013.0	2013.0	U	41.0			QL=4 ST=2 TYP=3	
410	PALE	48 C	2014.0	2014.0	3.0	450.0			QL=4 ST=2 TYP=8	
410	PALE	8 S	2014.0	2014.0	U	450.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	2014.0	2015.0	2.0	92.0			QL=4 ST=2 TYP=3	
4995	SGMR	8 S	2014.0	2015.0	2.0	100.0			QL=4 ST=2 TYP=3	
245	PALE	48 C	2015.0	2015.0	3.0	140.0			QL=4 ST=2 TYP=8	
1415	PALE	8 S	2015.0	2015.0	U	83.0			QL=4 ST=2 TYP=3	
2695	PALE	8 S	2015.0	2015.0	1.0	200.0			QL=4 ST=2 TYP=3	
4995	PALE	8 S	2015.0	2015.0	1.0	100.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	2015.0	2016.0	1.0	140.0			QL=4 ST=2 TYP=3	

12
Aug 05

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

AUGUST 2005

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	15400	PALE	8 S	2015.0	2015.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	2015.0	2015.0	2.0	120.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	2015.0	2015.0	U	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2015.0	2015.0	U	180.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2015.0	2015.0	1.0	100.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2015.0	2015.0	U	51.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2025.0	2025.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2036.0	2037.0	2.0	1500.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	2036.0	2037.0	1.0	70.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2045.0	2045.0	U	67.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2046.0	2046.0	1.0	80.0			QL=4 ST=2 TYP=3
03	127	TORN	44 NS	1230.0E		150.0D		8.0		V=2
	280	CUBA	44 NS	1530.0E		300.0D		30.0		
	2840	PEKG	5 S	0230.0	0234.0	7.0	16.1			0
	2800	HIRA	1 S	0232.0	0234.0	4.0	20.0			0
	245	LEAR	8 S	0234.0	0234.0	U	66.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0234.0	0234.0	U	22.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0234.0	0234.0	1.0	44.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0234.0	0234.0	U	32.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0235.0	0235.0	U	66.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0240.0	0242.9	7.0	11.8			0
	2800	HIRA	7 C	0242.0	0245.0	5.0	15.0			0
	245	LEAR	49 GB	0242.0	0242.0	U	520.0			QL=4 ST=2 TYP=6
	8800	LEAR	8 S	0242.0	0242.0	U	53.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	0243.0	0245.0	2.0	620.0			QL=4 ST=2 TYP=8
	4995	PALE	8 S	0243.0	0243.0	2.0	69.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0243.0	0243.0	2.0	100.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0243.0	0243.0	U	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0250.0	0250.0	U	83.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0251.0	0251.0	U	76.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0455.0	0458.4	17.0	115.6			0
	2800	HIRA	7 C	0456.0	0459.0	16.0	115.0			0
	900	GORK	46 C	0457.0	0505.0		48.0			
	410	LEAR	4 S/F	0457.0	0457.0	4.0	73.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0457.0	0457.0	4.0	73.0			QL=4 ST=3 TYP=3
	4995	LEAR	4 S/F	0457.0	0459.0	4.0	300.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0457.0	0459.0	4.0	300.0			QL=4 ST=3 TYP=3
	2695	SVTO	4 S/F	0457.0	0458.0	4.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0457.0	0500.0	4.0	300.0			QL=4 ST=2 TYP=3
	2950	GORK	46 C	0457.0	0458.6	12.0	140.0			
	2950	GORK	46 C	0457.0	0505.8		104.0			
	900	GORK	46 C	0457.0	0458.9	18.0	13.0			
	9100	GORK	46 C	0457.3	0505.2		245.0			
	9100	GORK	46 C	0457.3	0459.5	14.7	290.0			
	610	LEAR	8 S	0458.0	0458.0	2.0	170.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0458.0	0458.0	2.0	170.0			QL=4 ST=3 TYP=3
	15400	LEAR	8 S	0458.0	0459.0	2.0	180.0			QL=4 ST=3 TYP=3
	2695	LEAR	4 S/F	0458.0	0458.0	3.0	120.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0458.0	0458.0	3.0	120.0			QL=4 ST=3 TYP=3
	8800	LEAR	4 S/F	0458.0	0459.0	3.0	360.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0458.0	0459.0	3.0	360.0			QL=4 ST=3 TYP=3
	410	SVTO	48 C	0458.0	0501.0	3.0	85.0			QL=2 ST=2 TYP=8
	610	SVTO	8 S	0458.0	0459.0	2.0	160.0			QL=2 ST=2 TYP=3
1415	SVTO	8 S	0458.0	0459.0	1.0	35.0			QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	0458.0	0459.0	3.0	280.0			QL=4 ST=2 TYP=3	
15400	SVTO	4 S/F	0458.0	0459.0	3.0	180.0			QL=4 ST=2 TYP=3	
15400	LEAR	4 S/F	0458.0	0458.0	1142.0	94.0			QL=4 ST=1 TYP=3	
245	LEAR	8 S	0459.0	0459.0	2.0	200.0			QL=4 ST=3 TYP=3	
245	SVTO	8 S	0459.0	0459.0	2.0	180.0			QL=4 ST=2 TYP=3	
410	LEAR	49 GB	0503.0	0504.0	2.0	540.0			QL=4 ST=2 TYP=6	
245	LEAR	49 GB	0504.0	0504.0	U	1000.0			QL=4 ST=2 TYP=6	
1415	LEAR	8 S	0504.0	0504.0	U	57.0			QL=4 ST=2 TYP=3	
2695	LEAR	8 S	0504.0	0505.0	2.0	95.0			QL=4 ST=2 TYP=3	
4995	LEAR	4 S/F	0504.0	0505.0	3.0	300.0			QL=4 ST=2 TYP=3	
8800	LEAR	4 S/F	0504.0	0505.0	3.0	300.0			QL=4 ST=2 TYP=3	
15400	LEAR	4 S/F	0504.0	0505.0	3.0	150.0			QL=4 ST=2 TYP=3	
2695	SVTO	48 C	0504.0	0505.0	4.0	90.0			QL=4 ST=2 TYP=8	
245	SVTO	49 GB	0504.0	0504.0	1.0	730.0			QL=4 ST=2 TYP=6	

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

13
Aug 05

AUGUST 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
03	410	SVTO	49 GB	0504.0	0505.0	2.0	830.0			QL=2 ST=2 TYP=6
	610	SVTO	8 S	0504.0	0505.0	1.0	71.0			QL=2 ST=2 TYP=3
	15400	SVTO	8 S	0504.0	0505.0	2.0	100.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0504.0	0505.0	3.0	290.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0504.0	0505.0	3.0	230.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0505.0	0505.0	U	54.0			QL=4 ST=2 TYP=3
	2950	GORK	29 PBI	0509.0	0509.0	42.0	22.0			
	9100	GORK	29 PBI	0512.0	0512.0	26.2	30.0			
	33	UPIC	45 C	1242.0	1242.5	1.5				
	9500	CUBA	20 GRF	1349.0	1413.0	87.0	20.0	10.0		
	2695	SGMR	4 S/F	1351.0	1352.0	6.0	38.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1351.0	1356.0	6.0	56.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1351.0	1353.0	4.0	29.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1351.0	1356.0	5.0	52.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1817.0	1817.0	U	250.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1818.0	1818.0	U	32.0			QL=4 ST=2 TYP=3
	04	127	TORN	44 NS	0630.0E		510.0D		3.0	
2950		GORK	21 GRF	0336.0U	0546.6	333.8D	30.0			
900		GORK	21 GRF	0425.5	0616.1	376.5D	14.0			
9100		GORK	20 GRF	0509.0	0601.0	262.0	27.0			
2800		HIRA	21 GRF	0527.0	0555.0	74.0	20.0			0
2950		GORK	46 C	0527.0	0531.6		7.3			
2950		GORK	46 C	0527.0	0529.8	9.7	8.2			
900		GORK	40 F	0539.8	0550.0	21.4	143.0			
2950		GORK	1 S	0542.0	0542.8	2.0	3.7			
2840		PEKG	3 S	0542.0	0553.9	22.0	26.8			
410		LEAR	48 C	0545.0	0548.0	10.0	480.0			QL=4 ST=2 TYP=8
610		LEAR	48 C	0545.0	0546.0	11.0	700.0			QL=4 ST=2 TYP=8
410		SVTO	48 C	0545.0	0548.0	11.0	360.0			QL=4 ST=2 TYP=8
410		LEAR	48 C	0545.0	0548.0	1095.0	480.0			QL=4 ST=1 TYP=8
610		LEAR	48 C	0545.0	0546.0	1095.0	700.0			QL=4 ST=1 TYP=8
610		SVTO	48 C	0547.0	0551.0	9.0	390.0			QL=2 ST=2 TYP=8
2950		GORK	46 C	0548.7	0551.5	8.7	9.1			
2950		GORK	46 C	0548.7	0553.9		9.1			
245		SVTO	8 S	0550.0	0551.0	1.0	36.0			QL=4 ST=2 TYP=3
1415		SVTO	8 S	0550.0	0551.0	2.0	27.0			QL=4 ST=2 TYP=3
2695		SVTO	4 S/F	0550.0	0550.0	6.0	42.0			QL=2 ST=2 TYP=3
33		UPIC	46 C	1000.0	1001.0	2.0				
245		SVTO	8 S	1012.0	1013.0	1.0	130.0			QL=4 ST=2 TYP=3
245		SVTO	49 GB	1241.0	1242.0	1.0	600.0			QL=4 ST=2 TYP=6
410		SVTO	49 GB	1241.0	1242.0	1.0	1100.0			QL=4 ST=2 TYP=6
245		SGMR	49 GB	1242.0	1242.0	U	690.0			QL=4 ST=2 TYP=6
410		SGMR	49 GB	1242.0	1242.0	U	2300.0			QL=4 ST=2 TYP=6
33		UPIC	46 C	1242.0	1243.0	2.0				
245		SGMR	8 S	1244.0	1244.0	U	57.0			QL=4 ST=2 TYP=3
245		SVTO	8 S	1244.0	1244.0	U	65.0			QL=4 ST=2 TYP=3
245		SGMR	8 S	1736.0	1736.0	1.0	37.0			QL=4 ST=2 TYP=3
610		PALE	49 GB	1737.0	1738.0	1.0	500.0			QL=4 ST=2 TYP=6
610	SGMR	8 S	1737.0	1737.0	1.0	490.0			QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1737.0	1737.0	U	25.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1852.0	1852.0	1.0	190.0			QL=4 ST=2 TYP=3	
610	PALE	49 GB	1853.0	1853.0	1.0	530.0			QL=4 ST=2 TYP=6	
245	PALE	8 S	1853.0	1853.0	U	190.0			QL=4 ST=2 TYP=3	
610	SGMR	49 GB	1853.0	1853.0	1.0	500.0			QL=4 ST=2 TYP=6	
05	127	TORN	43 NS	0819.0		401.0		9.0		V=2
	245	SGMR	43 NS	1354.0	1354.0	21.0	170.0			QL=4 ST=2 TYP=1
	9100	GORK	20 GRF	0600.0	0815.0	234.5	9.5			
	2950	GORK	20 GRF	0701.9	0745.0	168.1	17.0			
	2840	PEKG	1 S	0702.0	0704.0	4.0	6.7			
	900	GORK	46 C	0715.0	0742.0		6.8			
	900	GORK	46 C	0715.0	0722.2	54.0	11.0			
	900	GORK	46 C	0715.0	0725.6		8.1			
	245	LEAR	8 S	0733.0	0733.0	U	110.0			QL=4 ST=2 TYP=3
	127	TORN	27 RF	0747.0	0749.5	24.0	80.0	40.0		
	33	UPIC	42 SER	1036.0	1055.0	20.0				
127	TORN	42 SER	1038.0	1038.5	20.0	310.0	70.0			
245	SGMR	8 S	1055.0	1055.0	U	92.0			QL=4 ST=2 TYP=3	

14
Aug 05

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

AUGUST 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
05	245	SGMR	8 S	1242.0	1242.0	U	54.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1342.0	1344.0	4.0	91.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	1349.0	1350.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1511.0	1511.0	U	58.0			QL=4 ST=2 TYP=3
06	127	TORN	43 NS	1053.0		177.0		2.0		V=1
	245	PALE	8 S	0025.0	0025.0	U	100.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0244.0	0244.0	U	69.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1519.0	1519.0	U	94.0			QL=4 ST=2 TYP=3
07	127	TORN	43 NS	1255.0		125.0		4.0		V=1
	410	SGMR	48 C	1329.0	1336.0	10.0	110.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	1330.0	1336.0	6.0	93.0			QL=4 ST=2 TYP=8
	610	SGMR	8 S	1335.0	1336.0	1.0	35.0			QL=4 ST=2 TYP=3
08	127	TORN	44 NS	0630.0E		430.0D		2.0		V=1
	2840	PEKG	1 S	0117.0	0119.1	5.0	9.2			
	245	LEAR	8 S	0633.0	0633.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0643.0	0643.0	U	69.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0643.0	0643.0	U	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0843.0	0843.0	U	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0843.0	0843.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0956.0	0957.0	4.0	60.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1035.0	1040.0	5.0	78.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1149.0	1150.0	1.0	67.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1743.0	1743.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1807.0	1807.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1807.0	1807.0	U	50.0			QL=4 ST=2 TYP=3
09	127	TORN	43 NS	0945.0		215.0		3.0		V=0
	9100	GORK	20 GRF	0540.0	0626.6	119.0	11.0			
	127	TORN	5 S	0929.4	0930.7	2.9	70.0	40.0		
	127	TORN	8 S	1137.2	1138.2	1.4	320.0	160.0		
	127	TORN	45 C	1421.0	1422.5	3.1	320.0	120.0		
10	127	TORN	43 NS	1033.0		167.0		2.0		V=0
	2840	PEKG	1 S	0323.0	0325.3	5.0	4.1			
	127	TORN	4 S/F	1413.7	1415.0	2.5	120.0	60.0		
12	245	LEAR	8 S	0840.0	0840.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0840.0	0840.0	1.0	130.0			QL=4 ST=2 TYP=3
14	8800	SGMR	8 S	1617.0	1617.0	U	28.0			QL=4 ST=2 TYP=3
18	245	SVTO	8 S	0948.0	0948.0	U	57.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	1142.0	1143.0	31.0				
	245	SGMR	8 S	1143.0	1143.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1143.0	1143.0	U	140.0			QL=4 ST=2 TYP=3
19	245	SVTO	43 NS	0355.0	0838.0	386.0	100.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0355.0	0828.0	1205.0	66.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0355.0	0838.0	1205.0	100.0			QL=4 ST=1 TYP=1
	127	TORN	43 NS	0800.0		140.0		4.0		V=1
	245	SVTO	43 NS	0825.0	0838.0	116.0	100.0			QL=4 ST=3 TYP=1
	235	CUBA	44 NS	1315.0E		505.0D		13.0		
	280	CUBA	44 NS	1315.0E		505.0D		17.0		
	245	LEAR	8 S	0643.0	0643.0	U	69.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0643.0	0643.0	U	83.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0652.0	0652.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0653.0	0653.0	U	75.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0725.0	0725.0	U	51.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0756.0	0800.0	4.0	70.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0759.0	0759.0	U	51.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0816.0	0816.0	U	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0819.0	0820.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0838.0	0838.0	U	76.0			QL=4 ST=2 TYP=3
245	SGMR	48 C	1818.0	1818.0	2.0	110.0			QL=4 ST=2 TYP=8	
245	SGMR	8 S	1836.0	1836.0	U	97.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1837.0	1837.0	U	110.0			QL=4 ST=2 TYP=3	

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

15
Aug 05

AUGUST 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
19	245	PALE	8 S	1853.0	1853.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2005.0	2005.0	U	71.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2006.0	2006.0	U	95.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2134.0	2134.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2138.0	2138.0	U	88.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2148.0	2148.0	U	58.0			QL=4 ST=2 TYP=3
20	245	SVTO	43 NS	0424.0	0517.0	85.0	72.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	0424.0E	0517.0	85.0D	72.0			QL=4 ST=3 TYP=1
	245	SVTO	43 NS	0424.0	0459.0	1176.0	56.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0424.0	0517.0	1176.0	72.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0424.0	0517.0U	85.0	72.0			QL=4 ST=3 TYP=1
	245	SVTO	43 NS	0720.0	0723.0	10.0	81.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0826.0	0837.0	37.0	93.0			QL=4 ST=2 TYP=1
	127	TORN	43 NS	0845.0		375.0		14.0		V=2
	235	CUBA	44 NS	1350.0E		460.0D		18.0		
	280	CUBA	44 NS	1350.0E		460.0D		23.0D		
	245	SVTO	43 NS	1432.0	1445.0	168.0	91.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1432.0	1506.0	177.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1432.0	1506.0	177.0	100.0			QL=4 ST=3 TYP=1
	245	PALE	43 NS	1727.0	2044.0	239.0	160.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1740.0	2150.0	324.0	180.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1740.0	2150.0	324.0	180.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	2301.0	2339.0	59.0	220.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	2317.0	0716.0	601.0	200.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2352.0	0057.0	283.0	190.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0040.0	0040.0	U	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0057.0	0057.0	U	210.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0414.0	0414.0	U	310.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0414.0	0414.0	U	80.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0432.0	0432.0	U	86.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0447.0	0447.0	U	95.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0529.0	0529.0	1.0	180.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0659.0	0659.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0710.0	0710.0	U	87.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0716.0	0716.0	U	190.0			QL=4 ST=2 TYP=3
	9100	GORK	20 GRF	0800.0	0808.0	45.0	10.0			
	2950	GORK	21 GRF	0805.1	0807.8	22.9	3.5			
	2950	GORK	2 S/F	0807.4	0807.5	0.2	3.5			
	245	SVTO	8 S	0956.0	0956.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1014.0	1014.0	U	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1023.0	1023.0	U	84.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1030.0	1030.0	U	51.0			QL=4 ST=2 TYP=3
245	SVTO	8 S	1047.0	1047.0	U	65.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1244.0	1245.0	1.0	130.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1245.0	1245.0	U	130.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1420.0	1420.0	U	51.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1426.0	1426.0	U	70.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1426.0	1426.0	U	94.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1733.0	1733.0	U	60.0			QL=4 ST=2 TYP=3	
245	PALE	49 GB	1805.0	1805.0	U	690.0			QL=4 ST=2 TYP=6	
410	SGMR	8 S	2136.0	2136.0	U	64.0			QL=4 ST=2 TYP=3	
21	410	PALE	43 NS	0125.0	0235.0	162.0	93.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	0125.0	0127.0	1355.0	77.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0441.0	0508.0	758.0	160.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0441.0	0444.0	1159.0	85.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0441.0	0447.0	1159.0	92.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0441.0	0508.0	1159.0	160.0			QL=4 ST=1 TYP=1
	127	TORN	44 NS	0630.0E		510.0D		160.0		V=2
	245	SGMR	43 NS	1017.0	2225.0	778.0	130.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1017.0	1048.0	823.0	63.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1017.0	1159.0	823.0	100.0			QL=4 ST=1 TYP=1
	235	CUBA	44 NS	1305.0E		505.0D		18.0		
	280	CUBA	44 NS	1305.0E		505.0D		23.0D		
	245	PALE	43 NS	1724.0	1724.0	396.0	62.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1724.0	1730.0	396.0	230.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	2146.0	0128.0	134.0	560.0			QL=4 ST=1 TYP=1
245	PALE	43 NS	2146.0	2352.0	134.0	260.0			QL=4 ST=1 TYP=1	

16
Aug 05

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

AUGUST 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)			
21	245	PALE	43 NS	2146.0	0233.0	416.0	640.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	2300.0	2306.0	60.0	77.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	2300.0	2346.0	60.0	200.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	2300.0	0618.0	541.0	310.0			QL=4 ST=2 TYP=1	
	245	SVTO	8 S	0634.0	0634.0	U	400.0			QL=2 ST=2 TYP=3	
22	245	SVTO	43 NS	0436.0	0618.0	203.0	380.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0436.0	0446.0	1164.0	270.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0436.0	0618.0U	203.0	380.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0436.0	0446.0U	1164.0	270.0			QL=4 ST=1 TYP=1	
	127	TORN	44 NS	0630.0E		510.0D		110.0		V=0	
	245	SVTO	43 NS	0911.0	1039.0	171.0	70.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1058.0	1244.0U	141.0	60.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1058.0	1104.0U	782.0	34.0			QL=4 ST=1 TYP=1	
	245	SGMR	43 NS	1058.0	1108.0U	782.0	52.0			QL=4 ST=1 TYP=1	
	245	SGMR	43 NS	1058.0	1244.0U	782.0	60.0			QL=4 ST=1 TYP=1	
	280	CUBA	44 NS	1300.0E		330.0D		22.0			
	235	CUBA	44 NS	1815.0E		195.0D		32.0			
	410	PALE	43 NS	2036.0	2040.0	56.0	71.0				QL=4 ST=2 TYP=1
	2840	PEKG	47 GB	0040.0	0123.0	117.0	1609.8				
	2695	LEAR	48 C	0050.0	0122.0	81.0	1600.0				QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0050.0	0122.0	103.0	1700.0				QL=4 ST=2 TYP=8
	610	LEAR	48 C	0050.0	0138.0	127.0	9400.0				QL=4 ST=2 TYP=8
	2695	LEAR	48 C	0050.0	0122.0	1390.0	1600.0				QL=4 ST=1 TYP=8
	4995	LEAR	48 C	0050.0	0122.0	1390.0	1700.0				QL=4 ST=1 TYP=8
	610	LEAR	49 GB	0050.0	0132.0	1390.0	7000.0				QL=4 ST=1 TYP=6
	2695	PALE	48 C	0051.0	0124.0	114.0	1900.0				QL=4 ST=2 TYP=8
	610	PALE	48 C	0051.0	0139.0	125.0	8900.0				QL=4 ST=2 TYP=8
	4995	PALE	48 C	0051.0	0124.0	125.0	2000.0				QL=4 ST=2 TYP=8
	4995	PALE	48 C	0051.0	0124.0	130.0	2000.0				QL=4 ST=2 TYP=8
	410	PALE	48 C	0051.0	0204.0	191.0	24000.0				QL=4 ST=2 TYP=8
	410	PALE	48 C	0051.0	0138.0	1389.0	12000.0				QL=4 ST=1 TYP=8
	610	PALE	48 C	0051.0	0139.0	1389.0	8900.0				QL=4 ST=1 TYP=8
	15400	LEAR	48 C	0053.0	0122.0	66.0	750.0				QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0053.0	0123.0	70.0	1300.0				QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0053.0	0137.0	86.0	2200.0				QL=4 ST=2 TYP=8
	410	LEAR	48 C	0053.0	0204.0	173.0	16000.0				QL=4 ST=2 TYP=8
	410	LEAR	48 C	0053.0	0132.0	1387.0	6000.0				QL=4 ST=1 TYP=8
	15400	LEAR	48 C	0053.0	0122.0	1387.0	750.0				QL=4 ST=1 TYP=8
	1415	LEAR	49 GB	0053.0	0133.0	1387.0	2000.0				QL=4 ST=1 TYP=6
	8800	PALE	48 C	0054.0	0124.0	66.0	1300.0				QL=4 ST=2 TYP=8
	15400	PALE	48 C	0054.0	0124.0	63.0	670.0				QL=4 ST=2 TYP=8
	1415	PALE	48 C	0054.0	0138.0	86.0	2100.0				QL=4 ST=2 TYP=8
	8800	PALE	48 C	0054.0	0124.0	124.0	1300.0				QL=4 ST=2 TYP=8
	8800	PALE	48 C	0054.0	0124.0	127.0	1300.0				QL=4 ST=2 TYP=8
	245	LEAR	48 C	0054.0	0204.0	250.0	67000.0				QL=4 ST=2 TYP=8
	245	LEAR	48 C	0054.0	0134.0	1386.0	2600.0				QL=4 ST=1 TYP=8
	245	PALE	48 C	0054.0	0140.0	1386.0	20000.0				QL=4 ST=1 TYP=8
245	PALE	48 C	0054.0	0200.0	1386.0	45000.0				QL=4 ST=1 TYP=8	
245	PALE	48 C	0054.0	0205.0	1386.0	78000.0				QL=4 ST=1 TYP=8	
15400	PALE	48 C	0054.0	0124.0	1386.0	670.0				QL=4 ST=1 TYP=8	
245	PALE	49 GB	0054.0	0055.0	1386.0	1200.0				QL=4 ST=1 TYP=6	
245	LEAR	48 C	0543.0	0545.0	5.0	370.0				QL=4 ST=2 TYP=8	
245	SVTO	48 C	0544.0	0546.0	6.0	330.0				QL=2 ST=2 TYP=8	
410	SVTO	48 C	0544.0	0546.0	9.0	120.0				QL=2 ST=2 TYP=8	
410	LEAR	8 S	0545.0	0545.0	1.0	66.0				QL=4 ST=2 TYP=3	
410	SVTO	8 S	0558.0	0559.0	1.0	68.0				QL=2 ST=2 TYP=3	
410	SVTO	4 S/F	0614.0	0615.0	4.0	87.0				QL=2 ST=2 TYP=3	
410	SVTO	4 S/F	0614.0	0615.0	4.0	87.0				QL=2 ST=3 TYP=3	
245	SVTO	4 S/F	0855.0	0855.0	3.0	98.0				QL=2 ST=2 TYP=3	
235	CUBA	49 GB	1615.2	1741.0U	88.4	4424.0D	2212.0D				
9500	CUBA	49 GB	1648.9	1711.1	124.4	3474.0	1737.0				
2695	SVTO	48 C	1649.0	1713.0	28.0	7000.0				QL=4 ST=2 TYP=8	
4995	SVTO	48 C	1649.0	1711.0	28.0	12000.0				QL=4 ST=2 TYP=8	
2695	SVTO	4 S/F	1649.0	1651.0	431.0	120.0				QL=4 ST=1 TYP=3	
4995	SVTO	4 S/F	1649.0	1651.0	431.0	330.0				QL=4 ST=1 TYP=3	
1415	SGMR	48 C	1650.0	1706.0	17.0	380.0				QL=4 ST=2 TYP=8	
2695	SGMR	48 C	1650.0	1706.0	17.0	2800.0				QL=4 ST=2 TYP=8	
4995	SGMR	48 C	1650.0	1706.0	17.0	6400.0				QL=4 ST=2 TYP=8	

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

17
Aug 05

AUGUST 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 ⁻²² W/m ² Hz)	Mean			
22	8800	SGMR	48 C	1650.0	1706.0	17.0	6400.0			QL=4 ST=2 TYP=8	
	8800	SVTO	48 C	1650.0	1711.0	27.0	9800.0			QL=4 ST=2 TYP=8	
	15400	SVTO	48 C	1650.0	1711.0	27.0	8300.0			QL=4 ST=2 TYP=8	
	1415	SGMR	48 C	1650.0	1705.0	430.0	370.0			QL=4 ST=1 TYP=8	
	2695	SGMR	48 C	1650.0	1705.0	430.0	1900.0			QL=4 ST=1 TYP=8	
	4995	SGMR	48 C	1650.0	1655.0	430.0	1400.0			QL=4 ST=1 TYP=8	
	4995	SGMR	48 C	1650.0	1705.0	430.0	4600.0			QL=4 ST=1 TYP=8	
	8800	SGMR	48 C	1650.0	1655.0	430.0	1300.0			QL=4 ST=1 TYP=8	
	8800	SGMR	48 C	1650.0	1656.0	430.0	1300.0			QL=4 ST=1 TYP=8	
	8800	SGMR	48 C	1650.0	1705.0	430.0	4500.0			QL=4 ST=1 TYP=8	
	2695	SGMR	49 GB	1650.0	1655.0	430.0	550.0			QL=4 ST=1 TYP=6	
	1415	SGMR	4 S/F	1650.0	1651.0	430.0	57.0			QL=4 ST=1 TYP=3	
	1415	SGMR	4 S/F	1650.0	1655.0	430.0	160.0			QL=4 ST=1 TYP=3	
	8800	SGMR	4 S/F	1650.0	1651.0	430.0	180.0			QL=4 ST=1 TYP=3	
	8800	SVTO	4 S/F	1650.0	1651.0	430.0	180.0			QL=4 ST=1 TYP=3	
	15400	SVTO	4 S/F	1650.0	1651.0	430.0	73.0			QL=4 ST=1 TYP=3	
	1415	SVTO	48 C	1651.0	1714.0	26.0	1300.0			QL=4 ST=2 TYP=8	
	1415	SVTO	4 S/F	1651.0	1653.0	429.0	93.0			QL=4 ST=1 TYP=3	
	280	CUBA	49 GB	1651.2	1726.5U	88.4	2217.0D	1109.0D			
	410	SGMR	48 C	1652.0	1701.0	15.0	700.0				QL=4 ST=2 TYP=8
	245	SVTO	48 C	1652.0	1705.0	25.0	10000.0				QL=4 ST=2 TYP=8
	410	SGMR	4 S/F	1652.0	1652.0	428.0	21.0				QL=4 ST=1 TYP=3
	410	SGMR	4 S/F	1652.0	1655.0	428.0	93.0				QL=4 ST=1 TYP=3
	15400	SGMR	48 C	1654.0	1707.0	13.0	5900.0				QL=4 ST=2 TYP=8
	1415	PALE	48 C	1654.0	1722.0	147.0	2600.0				QL=4 ST=2 TYP=8
	8800	PALE	48 C	1654.0	1721.0	141.0	3900.0				QL=4 ST=2 TYP=8
	4995	PALE	48 C	1654.0	1721.0	162.0	10000.0				QL=4 ST=2 TYP=8
	2695	PALE	49 GB	1654.0	1722.0	163.0	8200.0				QL=4 ST=2 TYP=6
	15400	SGMR	48 C	1654.0	1705.0	426.0	3900.0				QL=4 ST=1 TYP=8
	15400	SGMR	49 GB	1654.0	1655.0	426.0	1100.0				QL=4 ST=1 TYP=6
	610	SGMR	48 C	1655.0	1703.0	12.0	2000.0				QL=4 ST=2 TYP=8
	245	SGMR	49 GB	1655.0	1705.0	12.0	7500.0				QL=4 ST=2 TYP=6
	410	SVTO	48 C	1655.0	1658.0	22.0	850.0				QL=4 ST=2 TYP=8
	610	SVTO	48 C	1655.0	1703.0	22.0	1800.0				QL=4 ST=2 TYP=8
	610	PALE	48 C	1655.0	1720.0	132.0	4600.0				QL=4 ST=2 TYP=8
	15400	PALE	48 C	1655.0	1711.0	192.0	6500.0				QL=4 ST=2 TYP=8
	410	PALE	48 C	1655.0	1728.0	220.0	15000.0				QL=4 ST=2 TYP=8
	610	SGMR	48 C	1655.0	1703.0	425.0	2000.0				QL=4 ST=1 TYP=8
	610	SGMR	4 S/F	1655.0	1655.0	425.0	100.0				QL=4 ST=1 TYP=3
	245	PALE	48 C	1656.0	1741.0	219.0	33000.0				QL=4 ST=2 TYP=8
610	SGMR	48 C	1707.0	1719.0	81.0	2000.0				QL=4 ST=2 TYP=8	
1415	SGMR	48 C	1707.0	1722.0	135.0	2800.0				QL=4 ST=2 TYP=8	
15400	SGMR	49 GB	1707.0	1711.0	179.0	8400.0				QL=4 ST=2 TYP=6	
8800	SGMR	48 C	1707.0	1711.0	187.0	9800.0				QL=4 ST=2 TYP=8	
2695	SGMR	49 GB	1707.0	1720.0	187.0	7100.0				QL=4 ST=2 TYP=6	
245	SGMR	48 C	1707.0	1741.0	195.0	22000.0				QL=4 ST=2 TYP=8	
410	SGMR	48 C	1707.0	1727.0	195.0	9600.0				QL=4 ST=2 TYP=8	
4995	SGMR	48 C	1707.0	1719.0	193.0	9800.0				QL=4 ST=2 TYP=8	
9500	CUBA	30 PBI	1853.3	1853.3	86.5	71.0	36.0				
23	245	LEAR	43 NS	0442.0	0602.0	201.0	180.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0457.0	0603.0	196.0	190.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0457.0	0457.0	1143.0	73.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0457.0	0512.0	1143.0	90.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0457.0	0553.0	1143.0	160.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0457.0	0603.0	1143.0	190.0			QL=4 ST=1 TYP=1	
	127	TORN	44 NS	0630.0E		510.0D		100.0		V=2	
	245	SVTO	43 NS	0921.0	0921.0	13.0	60.0			QL=4 ST=2 TYP=1	
	235	CUBA	44 NS	1325.0E		443.0D		36.0			
	245	PALE	43 NS	2035.0	2037.0	238.0	110.0			QL=4 ST=2 TYP=1	
	2840	PEKG	3 S	0242.0	0246.2	11.0	22.7				
	245	LEAR	8 S	0247.0	0247.0	U	62.0			QL=4 ST=2 TYP=3	
	410	PALE	8 S	0331.0	0331.0	U	120.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	0405.0	0405.0	U	70.0			QL=4 ST=2 TYP=3	
	9100	GORK	21 GRF	0412.0	0640.9	397.6	22.0				
	245	LEAR	8 S	0442.0	0442.0	U	53.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0457.0	0457.0	U	64.0			QL=4 ST=2 TYP=3	
	9100	GORK	2 S/F	0649.7	0650.9	3.9	7.7				
	235	CUBA	49 GB	1417.8	1435.0U	214.2	139.0D	70.0D			

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

AUGUST 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
23	9500	CUBA	49 GB	1420.8	1533.1	91.4	3508.0	1754.0			
	15400	SVTO	48 C	1421.0	1532.0	133.0	1400.0			QL=4 ST=2 TYP=8	
	15400	SGMR	48 C	1421.0	1531.0	168.0	1500.0			QL=4 ST=2 TYP=8	
	8800	SGMR	48 C	1421.0	1534.0	179.0	2700.0			QL=4 ST=2 TYP=8	
	8800	SVTO	48 C	1421.0	1532.0	173.0	1300.0			QL=4 ST=2 TYP=8	
	4995	SVTO	49 GB	1421.0	1534.0	173.0	3300.0			QL=4 ST=2 TYP=6	
	4995	SGMR	48 C	1421.0	1533.0	193.0	3700.0			QL=4 ST=2 TYP=8	
	2695	SGMR	48 C	1421.0	1534.0	201.0	3500.0			QL=4 ST=2 TYP=8	
	4995	SGMR	48 C	1421.0	1439.0	579.0	1300.0			QL=4 ST=1 TYP=8	
	8800	SGMR	48 C	1421.0	1439.0	579.0	1000.0			QL=4 ST=1 TYP=8	
	15400	SGMR	48 C	1421.0	1425.0	579.0	400.0			QL=4 ST=1 TYP=8	
	15400	SGMR	48 C	1421.0	1439.0	579.0	670.0			QL=4 ST=1 TYP=8	
	2695	SGMR	49 GB	1421.0	1440.0	579.0	860.0			QL=4 ST=1 TYP=6	
	15400	SVTO	4 S/F	1421.0	1425.0	579.0	400.0			QL=4 ST=1 TYP=3	
	610	SVTO	48 C	1422.0	1547.0	149.0	800.0			QL=2 ST=2 TYP=8	
	2695	SVTO	48 C	1422.0	1533.0	174.0	3300.0			QL=4 ST=2 TYP=8	
	610	SVTO	4 S/F	1422.0	1424.0	578.0	61.0			QL=2 ST=1 TYP=3	
	127	TORN	49 GB	1425.0	1447.2	35.00	1000.00	220.00			
	245	SVTO	48 C	1426.0	1549.0	170.0	3700.0				QL=2 ST=2 TYP=8
	245	SGMR	48 C	1428.0	1603.0	163.0	4000.0				QL=4 ST=2 TYP=8
	245	SGMR	4 S/F	1428.0	1429.0	572.0	73.0				QL=4 ST=1 TYP=3
	245	SGMR	4 S/F	1428.0	1437.0	572.0	100.0				QL=4 ST=1 TYP=3
	410	SVTO	48 C	1431.0	1530.0	136.0	1900.0				QL=2 ST=2 TYP=8
	410	SGMR	48 C	1431.0	1530.0	142.0	2200.0				QL=4 ST=2 TYP=8
	1415	SVTO	48 C	1431.0	1458.0	165.0	3800.0				QL=4 ST=2 TYP=8
	410	SGMR	4 S/F	1431.0	1432.0	569.0	91.0				QL=4 ST=1 TYP=3
	410	SGMR	4 S/F	1431.0	1439.0	569.0	190.0				QL=4 ST=1 TYP=3
	610	SGMR	8 S	1432.0	1432.0	1.0	66.0				QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1432.0	1432.0	U	62.0				QL=4 ST=2 TYP=3
	610	SGMR	48 C	1432.0	1547.0	154.0	1200.0				QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1432.0	1458.0	158.0	4500.0				QL=4 ST=2 TYP=8
	9500	CUBA	30 PBI	1552.2	1552.2	518.0	1703.0	851.0			
	1415	PALE	4 S/F	1640.0	1646.0	42.0	230.0				QL=4 ST=2 TYP=3
	2695	PALE	48 C	1640.0	1644.0	54.0	280.0				QL=4 ST=2 TYP=8
	8800	PALE	48 C	1641.0	1646.0	8.0	120.0				QL=4 ST=2 TYP=8
	610	PALE	4 S/F	1641.0	1646.0	13.0	73.0				QL=4 ST=2 TYP=3
	4995	PALE	48 C	1641.0	1646.0	45.0	240.0				QL=4 ST=2 TYP=8
	8800	PALE	48 C	1641.0	1646.0	439.0	120.0				QL=4 ST=2 TYP=8
	15400	PALE	48 C	1642.0	1643.0	21.0	110.0				QL=4 ST=2 TYP=8
	245	PALE	4 S/F	1648.0	1652.0	10.0	63.0				QL=4 ST=2 TYP=3
245	PALE	4 S/F	1648.0	1648.0	432.0	52.0				QL=4 ST=2 TYP=3	
245	LEAR	4 S/F	2337.0	2406.0	49.0	160.0				QL=4 ST=2 TYP=3	
245	LEAR	20 GRF	2347.0	2406.0	33.0	160.0				QL=4 ST=2 TYP=2	
24	127	TORN	43 NS	0850.0		370.0		8.0		V=1,DISTURBED	
	9100	GORK	2 S/F	0354.0	0354.8	1.9	14.0				
	9100	GORK	46 C	0430.0	0432.5		11.0				
	9100	GORK	21 GRF	0430.0	0711.6	378.00	31.0				
	9100	GORK	46 C	0430.0	0430.9	3.0	17.0				
	8800	LEAR	8 S	0613.0	0613.0	U	51.0			QL=4 ST=2 TYP=3	
	15400	LEAR	8 S	0613.0	0613.0	1.0	56.0			QL=4 ST=2 TYP=3	
	9100	GORK	46 C	0613.2	0614.2	11.1	48.0				
	9100	GORK	46 C	0613.2	0617.4		150.0				
	9100	GORK	46 C	0613.2	0616.8		180.0				
	15400	SVTO	48 C	0614.0	0616.0	4.0	340.0			QL=4 ST=2 TYP=8	
	8800	SVTO	4 S/F	0614.0	0616.0	3.0	200.0			QL=4 ST=2 TYP=3	
	4995	LEAR	8 S	0616.0	0616.0	U	59.0			QL=4 ST=2 TYP=3	
	8800	LEAR	8 S	0616.0	0616.0	1.0	200.0			QL=4 ST=2 TYP=3	
	15400	LEAR	8 S	0616.0	0616.0	1.0	340.0			QL=4 ST=2 TYP=3	
	4995	SVTO	8 S	0616.0	0616.0	1.0	70.0			QL=4 ST=2 TYP=3	
	610	SVTO	4 S/F	0616.0	0619.0	3.0	66.0			QL=2 ST=2 TYP=3	
	2950	GORK	1 S	0616.2	0616.8	2.0	2.7				
	2950	GORK	21 GRF	0629.2	0705.2	63.8	18.0				
	9100	GORK	46 C	0633.5	0643.0		12.0				
9100	GORK	46 C	0633.5	0638.0	11.6	17.0					
9100	GORK	46 C	0657.2	0701.0		23.0					
9100	GORK	46 C	0657.2	0659.3	9.0	20.0					
2950	GORK	5 S	0658.0	0701.2	7.2	9.9					
410	PALE	49 GB	1733.0	1734.0	1.0	520.0				QL=4 ST=2 TYP=6	

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

19
Aug 05

AUGUST 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
25	127	TORN	44 NS	0630.0E		330.0D				V=2
	235	CUBA	44 NS	1310.0E		500.0D		20.0		
	280	CUBA	44 NS	1310.0E		500.0D		11.0		
								16.0		
	2695	SVTO	48 C	0425.0	0428.0	1175.0	270.0			QL=4 ST=1 TYP=8
	2695	SVTO	48 C	0425.0	0437.0	1175.0	310.0			QL=4 ST=1 TYP=8
	4995	SVTO	48 C	0434.0	0439.0	1166.0	750.0			QL=4 ST=1 TYP=8
	4995	SVTO	49 GB	0434.0	0436.0	1166.0	530.0			QL=4 ST=1 TYP=6
	2840	PEKG	3 S	0434.0	0437.5	13.0	276.3			
	9100	GORK	48 C	0434.5	0439.1		1700.0			
	9100	GORK	48 C	0434.5	0437.4	13.5	1400.0			
	4995	LEAR	48 C	0435.0	0437.0	7.0	710.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0435.0	0438.0	9.0	1900.0			QL=4 ST=2 TYP=8
	15400	LEAR	49 GB	0435.0	0437.0	10.0	3400.0			QL=4 ST=2 TYP=6
	4995	LEAR	49 GB	0435.0	0436.0	1165.0	650.0			QL=4 ST=1 TYP=6
	8800	LEAR	49 GB	0435.0	0436.0	1165.0	1400.0			QL=4 ST=1 TYP=6
	15400	LEAR	49 GB	0435.0	0436.0	1165.0	2400.0			QL=4 ST=1 TYP=6
	2950	GORK	48 C	0435.4	0437.4	9.6	260.0			
	2950	GORK	48 C	0435.4	0439.5		150.0			
	245	LEAR	48 C	0436.0	0437.0	7.0	91.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	0436.0	0436.0	U	82.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0436.0	0436.0	1.0	100.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0436.0	0437.0	4.0	260.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0436.0	0443.0	8.0	64.0			QL=2 ST=2 TYP=3
	1415	SVTO	4 S/F	0436.0	0437.0	4.0	54.0			QL=2 ST=2 TYP=3
	2695	SVTO	48 C	0436.0	0437.0	12.0	310.0			QL=2 ST=2 TYP=8
	4995	SVTO	48 C	0436.0	0439.0	13.0	740.0			QL=2 ST=2 TYP=8
	8800	SVTO	48 C	0436.0	0439.0	13.0	1500.0			QL=2 ST=2 TYP=8
	15400	SVTO	48 C	0436.0	0439.0	13.0	2000.0			QL=2 ST=2 TYP=8
	1415	LEAR	4 S/F	0436.0	0436.0	1164.0	83.0			QL=4 ST=1 TYP=3
	2695	LEAR	4 S/F	0436.0	0436.0	1164.0	190.0			QL=4 ST=1 TYP=3
	245	SVTO	4 S/F	0436.0	0437.0	1164.0	35.0			QL=4 ST=1 TYP=3
	900	GORK	46 C	0436.2	0437.2		165.0			
	900	GORK	46 C	0436.2	0436.9	5.2	170.0			
	4995	PALE	48 C	0437.0E	0438.0	2.0D	350.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	0437.0E	0440.0	3.0D	1000.0			QL=4 ST=2 TYP=8
	245	PALE	8 S	0437.0	0438.0	1.0	78.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0437.0	0437.0	1.0	60.0			QL=4 ST=2 TYP=3
	9100	GORK	29 PBI	0448.0	0448.0	21.3	16.0			
	245	SVTO	4 S/F	0610.0	0611.0	3.0	89.0			QL=4 ST=2 TYP=3
245	LEAR	8 S	0611.0	0611.0	1.0	100.0			QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	0859.0	0900.0	3.0	63.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	0900.0	0900.0	U	54.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1219.0	1219.0	U	66.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1219.0	1219.0	1.0	53.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	2250.0	2250.0	1.0	130.0			QL=4 ST=2 TYP=3	
26	127	TORN	43 NS	0715.0		415.0		56.0		V=1
	235	CUBA	44 NS	1336.0E		394.0D		10.0		
	280	CUBA	44 NS	1336.0E		394.0D		16.0		
	245	SVTO	8 S	1016.0	1016.0	U	58.0			QL=2 ST=2 TYP=3
	33	UPIC	45 C	1141.0	1141.5	1.5				
	4995	SVTO	4 S/F	1147.0	1149.0	4.0	60.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1148.0	1149.0	1.0	58.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1148.0	1149.0	1.0	50.0			QL=4 ST=2 TYP=3
15400	SVTO	8 S	1148.0	1149.0	1.0	27.0			QL=4 ST=2 TYP=3	
28	2840	PEKG	3 S	1007.0	1020.1	33.0	341.2			
	2695	SVTO	49 GB	1018.0	1020.0	10.0	520.0			QL=4 ST=2 TYP=6
	33	UPIC	48 C	1018.0	1020.0	12.0				
	127	TORN	45 C	1018.7	1021.5	5.0	340.0	70.0		
	245	SVTO	48 C	1019.0	1024.0	8.0	470.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	1019.0	1024.0	9.0	1000.0			QL=2 ST=2 TYP=8
	4995	SVTO	49 GB	1019.0	1020.0	9.0	1700.0			QL=4 ST=2 TYP=6
	8800	SVTO	49 GB	1019.0	1020.0	9.0	1000.0			QL=4 ST=2 TYP=6
	1415	SVTO	4 S/F	1019.0	1020.0	9.0	270.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1019.0	1020.0	8.0	430.0			QL=4 ST=2 TYP=3
	8800	SVTO	49 GB	1019.0	1020.0	821.0	1000.0			QL=4 ST=1 TYP=6
	4995	SVTO	4 S/F	1019.0	1019.0	821.0	81.0			QL=4 ST=1 TYP=3
15400	SVTO	4 S/F	1019.0	1020.0	821.0	430.0			QL=4 ST=1 TYP=3	

20
Aug 05

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

AUGUST 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
28	410	SVTO	49 GB	1020.0	1022.0	6.0	1300.0			QL=2 ST=2 TYP=6
			8 S	1024.0E	1026.0U	2.00	71.0			QL=4 ST=1 TYP=3
			4 S/F	1024.0E	1026.0U	3.00	160.0			QL=4 ST=1 TYP=3
29	2840	PEKG	5 S	0226.0	0228.6	6.0	14.1			
30	2840	PEKG	1 S	0934.0	0936.1	4.0	3.6			
31	127	TORN	43 NS	1200.0		97.0		10.0		V=1
	410	PALE	8 S	0155.0	0156.0	1.0	480.0			QL=4 ST=2 TYP=3
	3100	GORK	20 GRF	0809.0	0852.0	127.0	9.2			
	2950	GORK	21 GRF	0915.0	1048.0	93.00	7.2			
	245	SVTO	49 GB	1026.0	1028.0	3.0	760.0			QL=4 ST=2 TYP=6
			4 S/F	1026.0	1028.0	3.0	91.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	1028.0	1028.0	3.0	320.0			QL=2 ST=2 TYP=8
	2695	SVTO	8 S	1028.0	1028.0	U	21.0			QL=4 ST=2 TYP=3
	2950	GORK	46 C	1028.2	1029.0		17.0			
	2950	GORK	46 C	1028.2	1028.7	2.0	39.0			
	900	GORK	46 C	1028.3	1029.2		19.0			
	900	GORK	46 C	1028.3	1028.8	1.9	12.0			
	245	SVTO	8 S	1032.0	1032.0	U	26.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1032.0	1032.0	U	23.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1042.0	1042.0	U	75.0			QL=4 ST=3 TYP=3
410	SVTO	8 S	1042.0	1042.0	U	80.0			QL=4 ST=3 TYP=3	
127	TORN	27 RF	1137.3	1141.4	13.3	240.0	60.0			

Reports are received routinely from the following observatories:

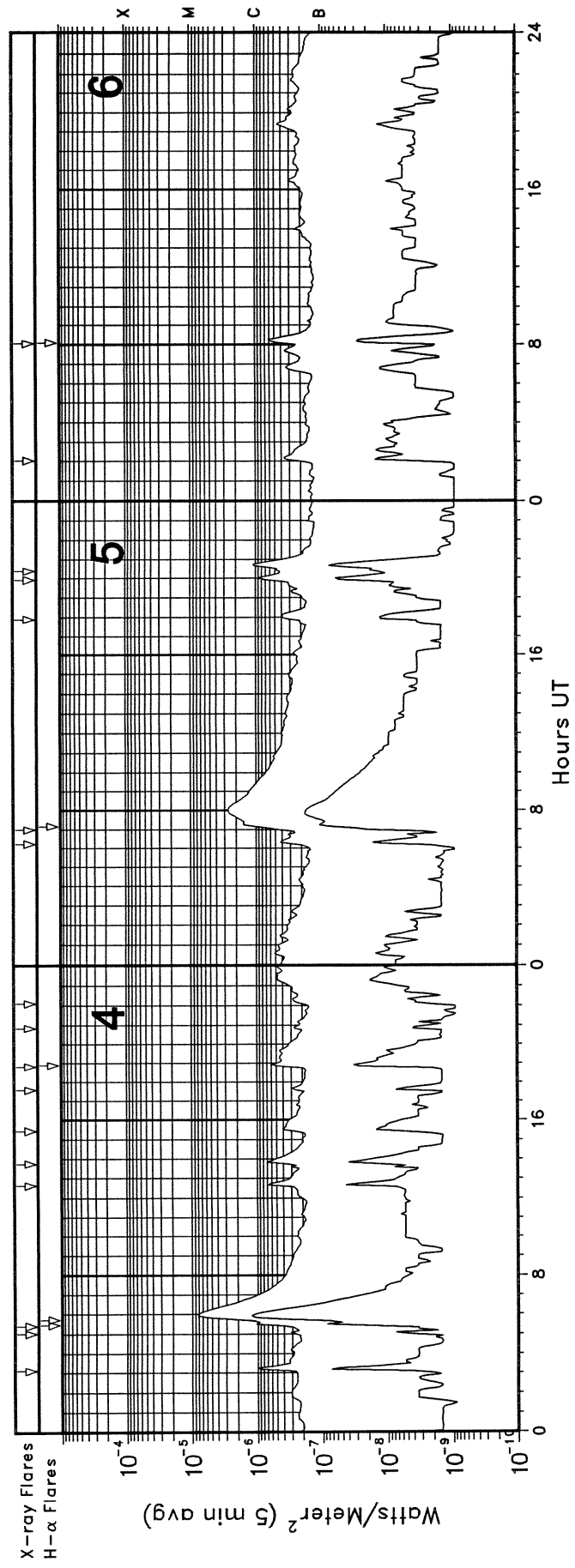
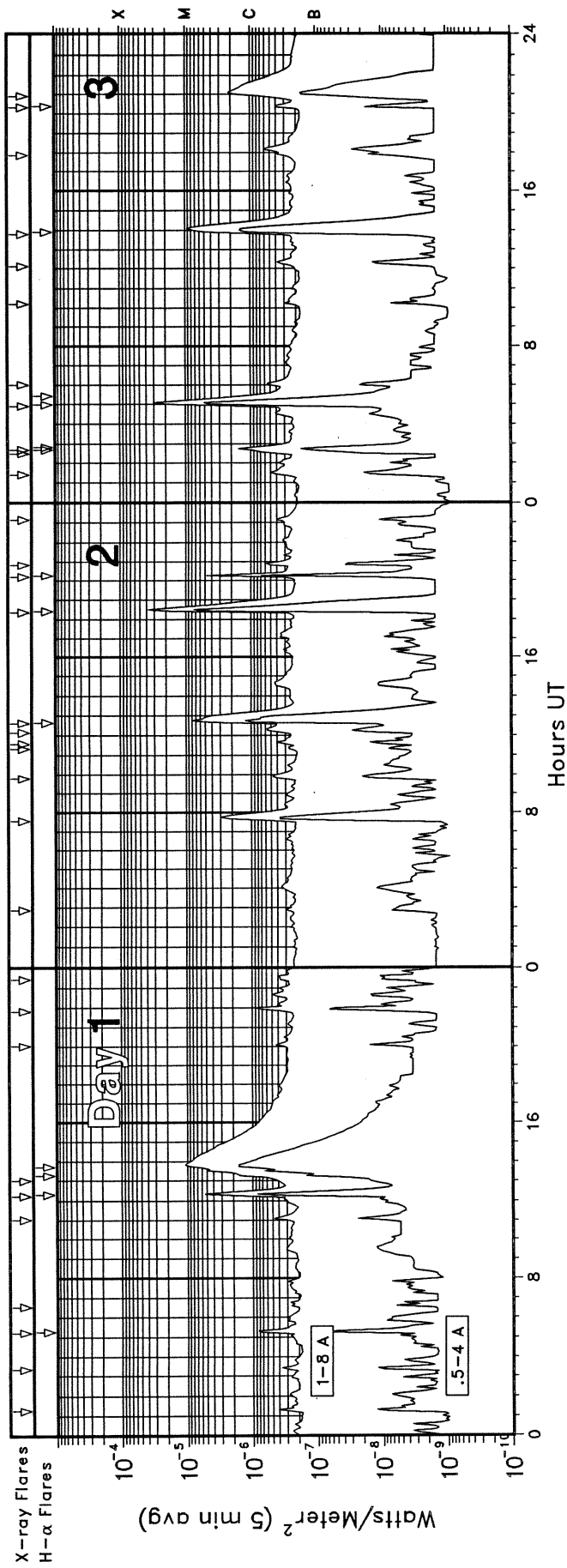
BERN = Berne	HUMN = Humain	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	IZMI = IZMIRAN	PEKG = Peking	TORN = Torun
CUBA = Havana	KISV = Kislovodsk	PALE = Palehua	TRST = Trieste
GORK = Gorky	KRAK = Krakow	PENT = Penticton	TYKW = Toyokawa
HIRA = Hiraiso	LEAR = Learmonth	POTS = Potsdam	UPIC = Upice
HUAN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

Explanation of Type Code:

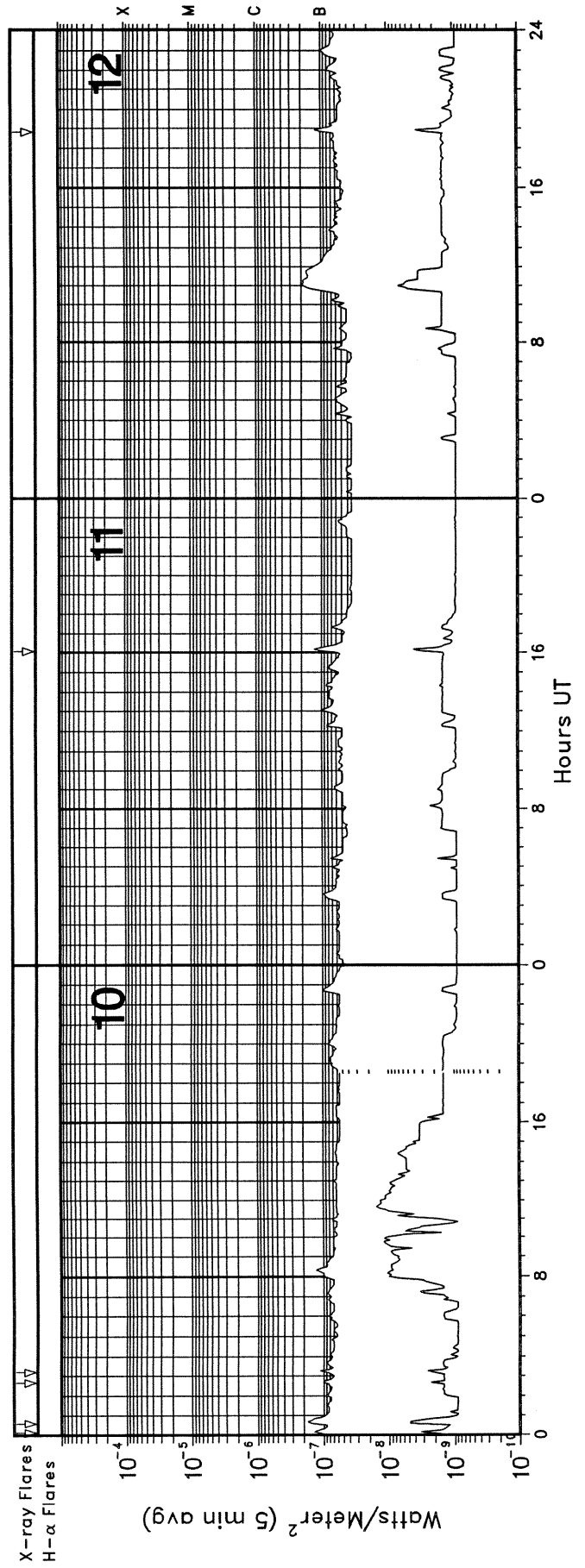
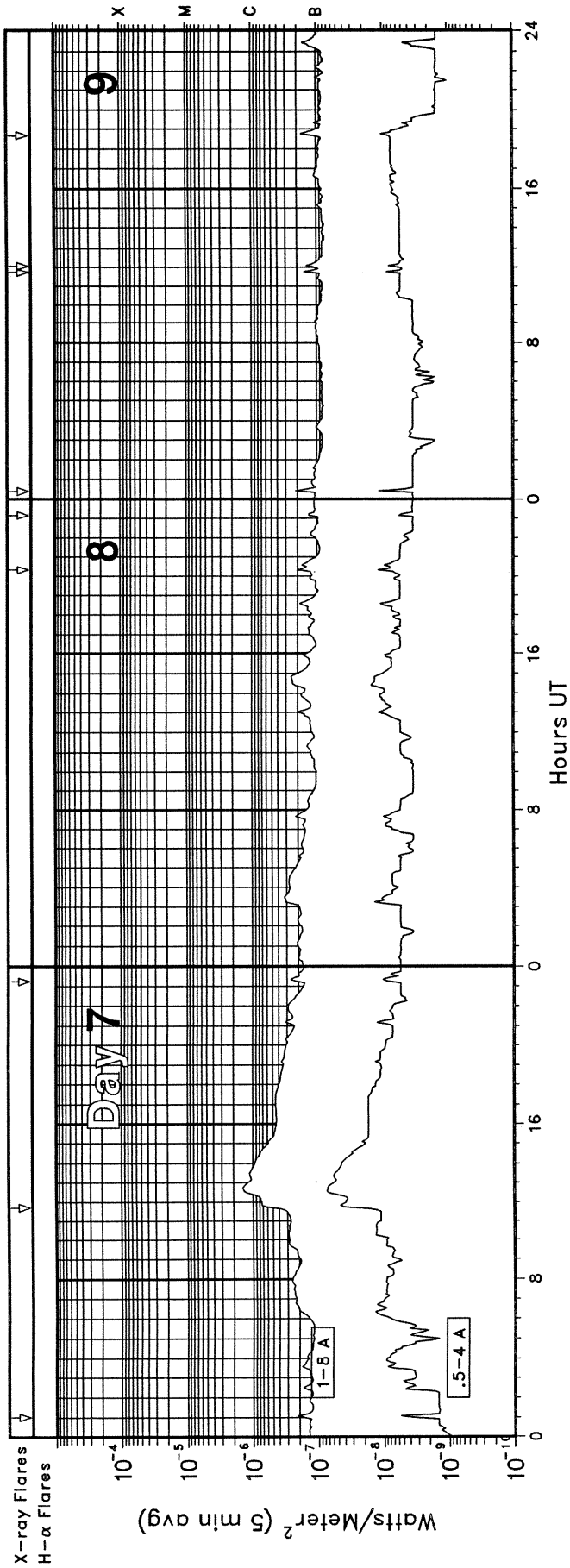
1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 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	40 Rise Only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A	

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

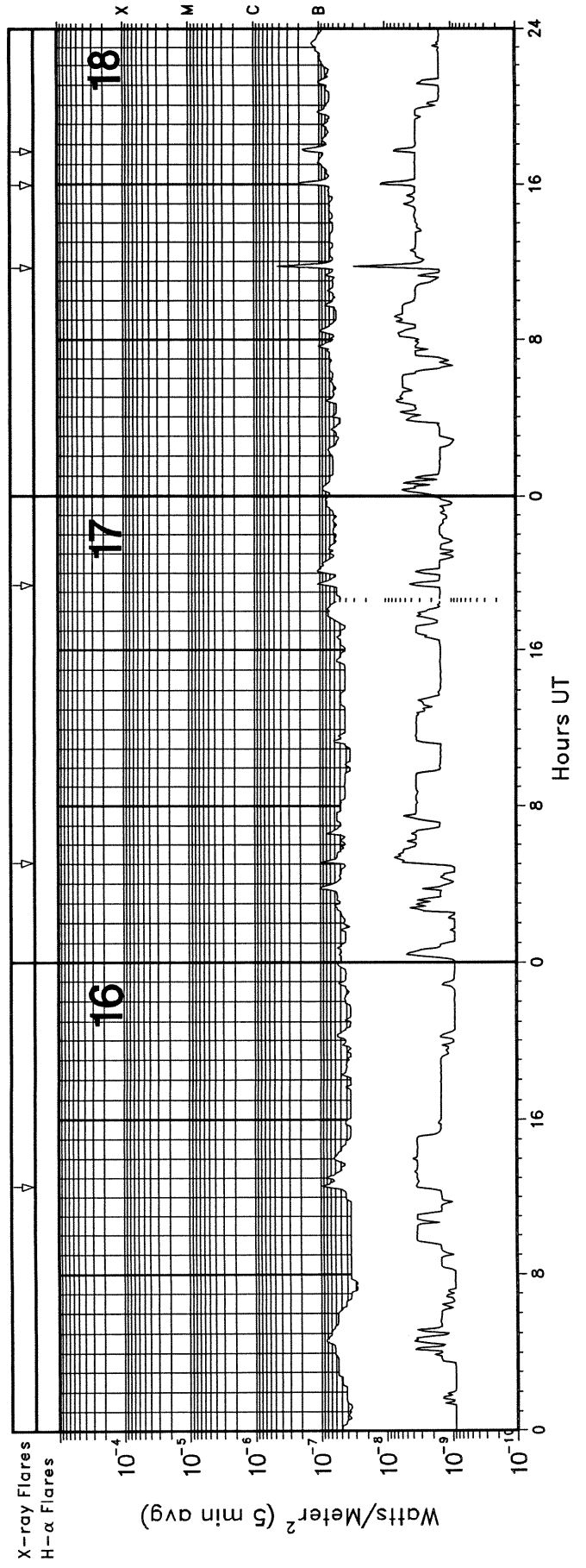
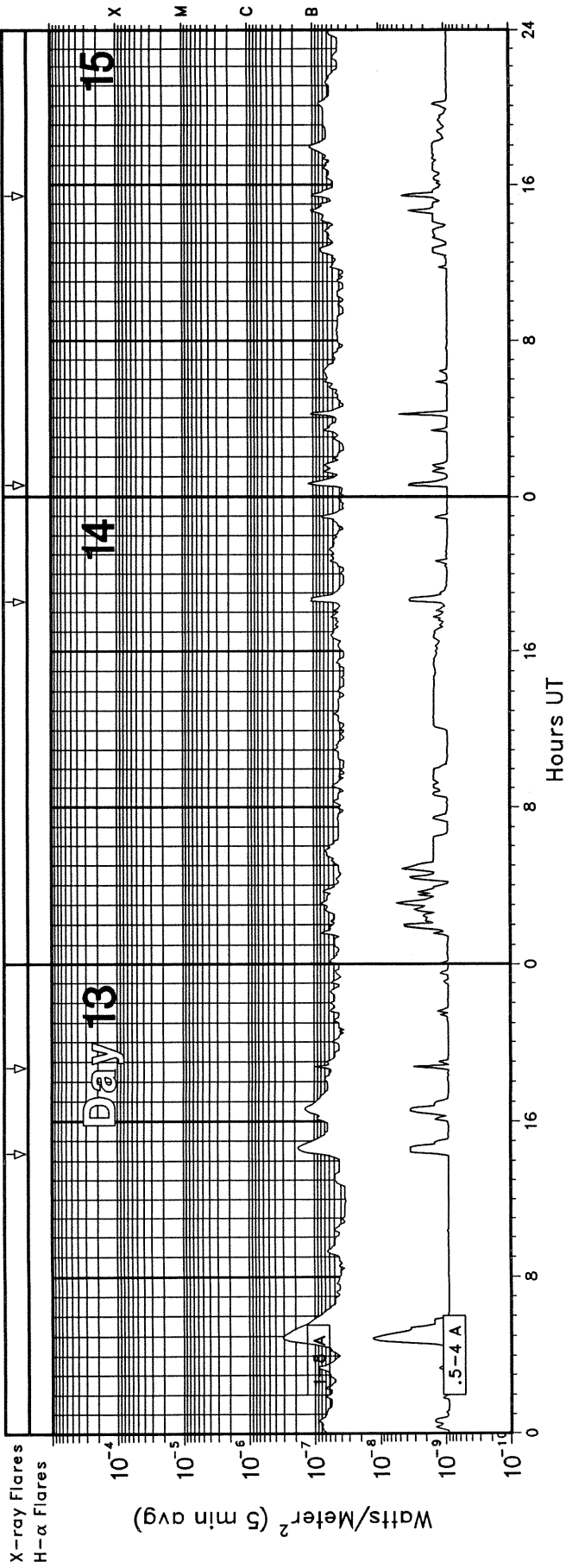
GOES X-RAY DETECTOR August 2005



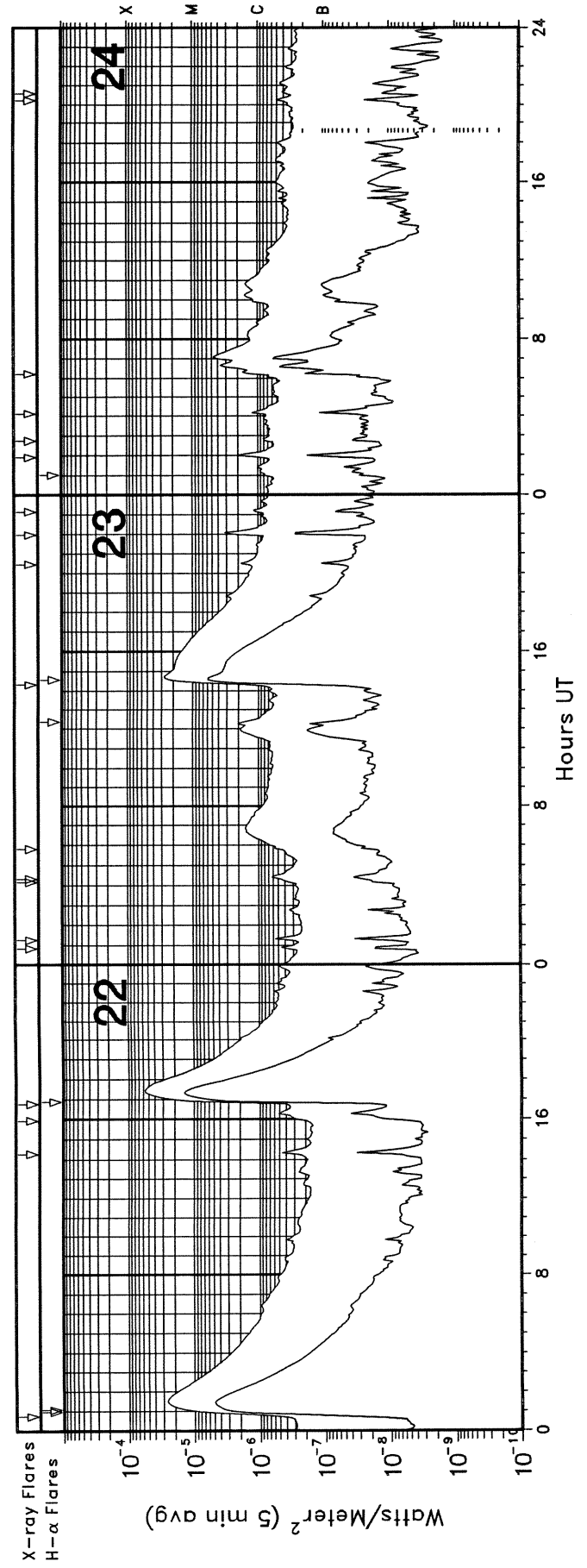
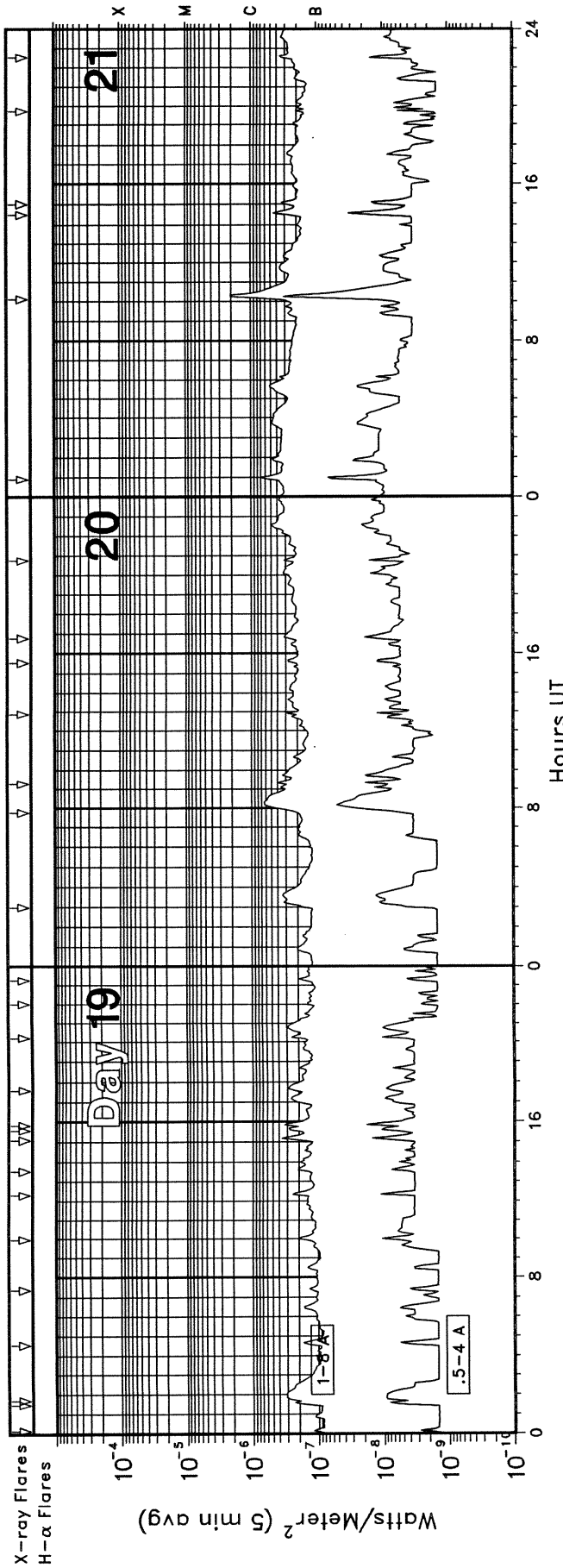
GOES X-RAY DETECTOR August 2005



GOES X-RAY DETECTOR August 2005

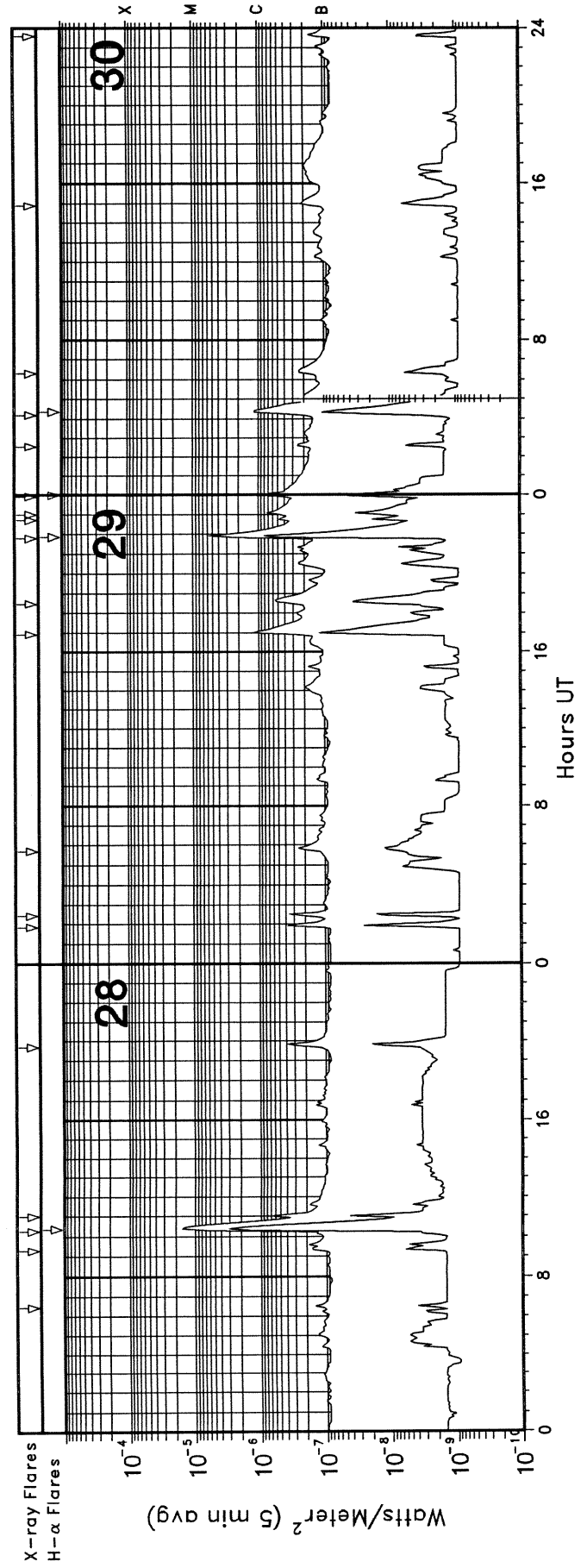
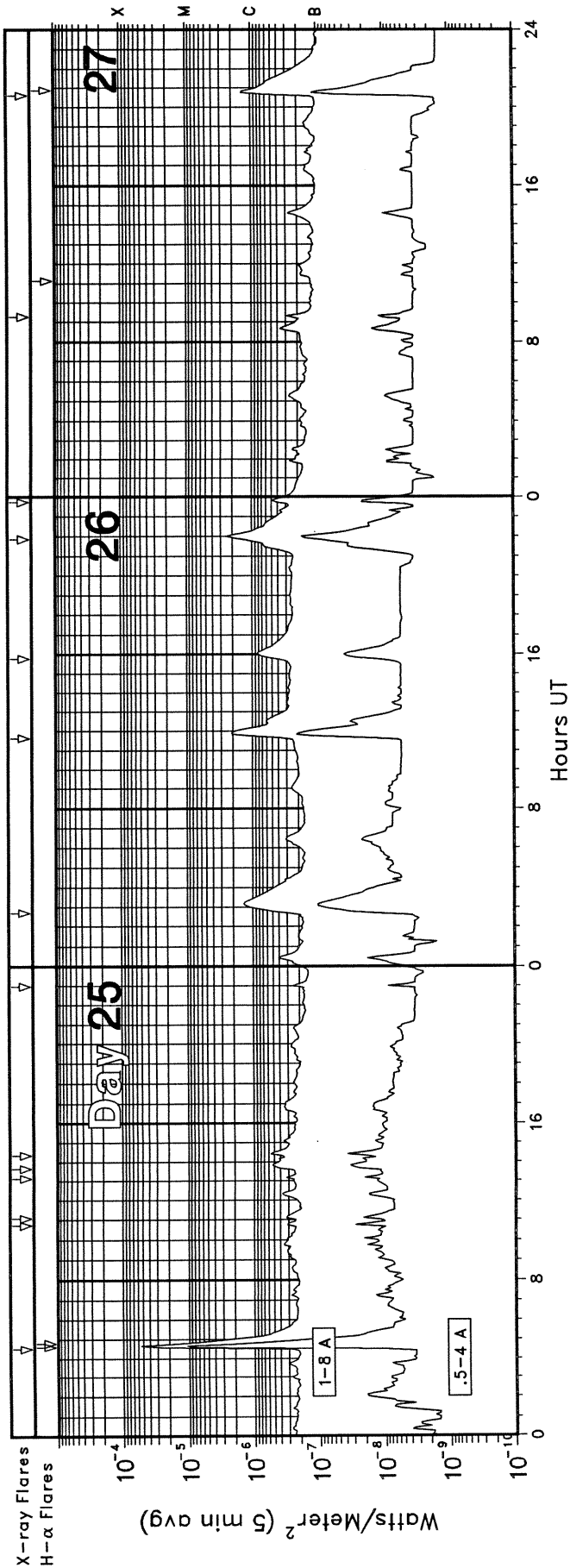


GOES X-RAY DETECTOR August 2005

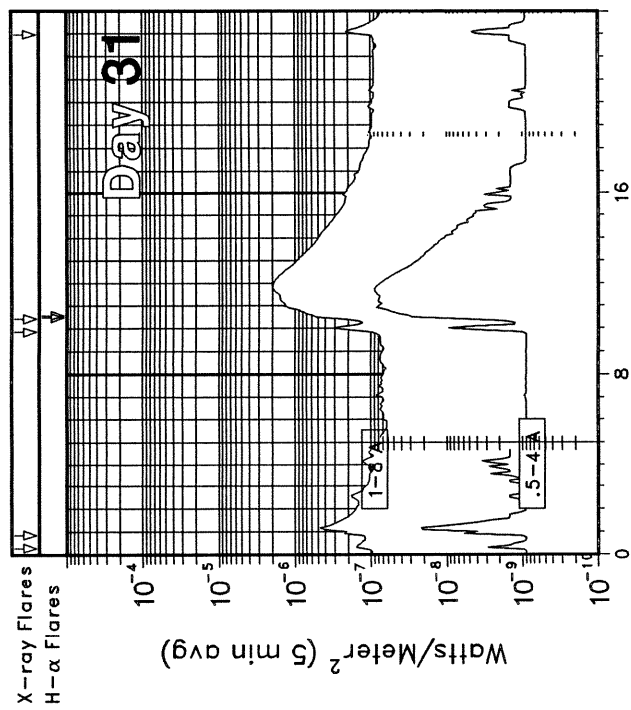


GOES X-RAY DETECTOR

August 2005

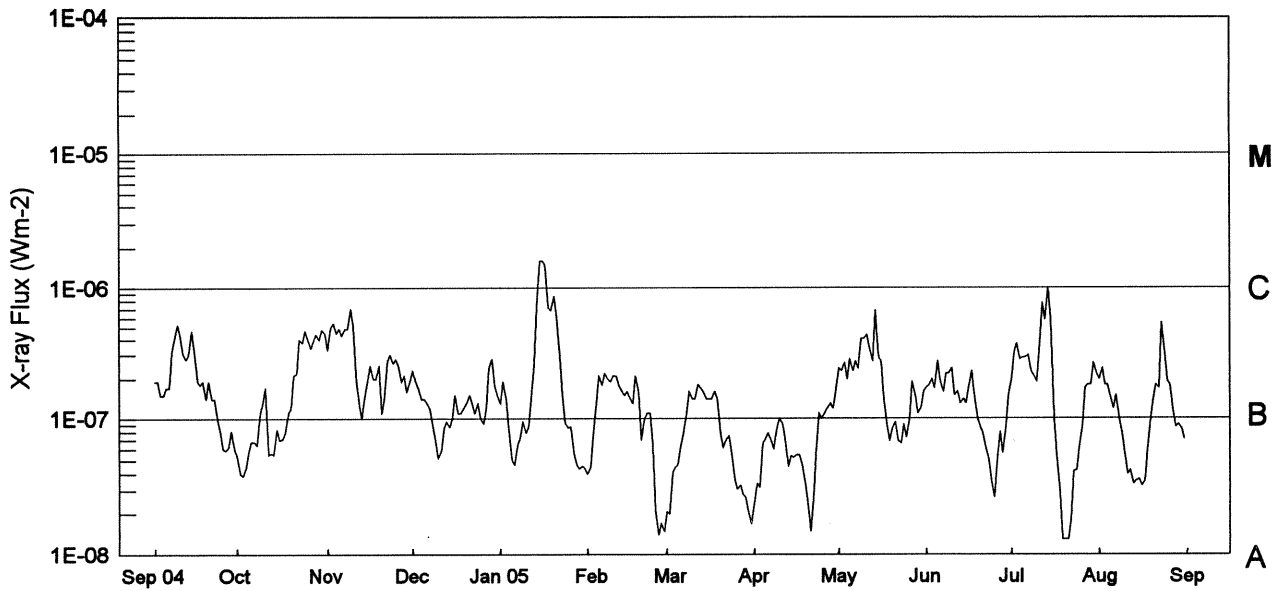


GOES X-RAY DETECTOR August 2005



Preliminary GOES Satellite Daily X-Ray Background Sep 2004 - Aug 2005

27
Aug 05



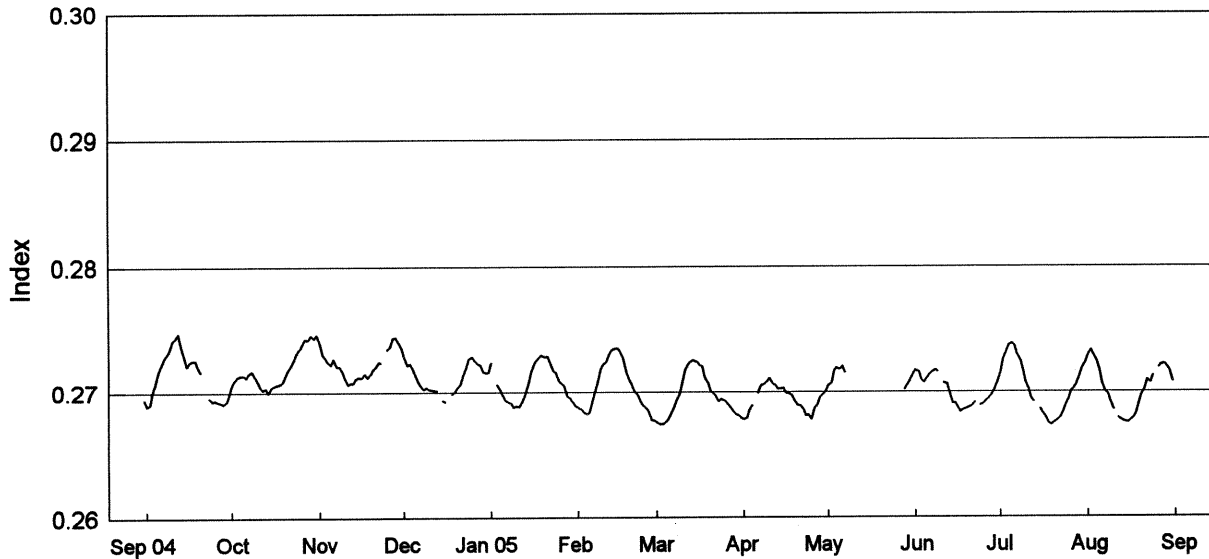
Day	Sep 04	Oct	Nov	Dec	Jan 05	Feb	Mar	Apr	May	Jun	Jul	Aug
1	B1.9	A4.0	B3.3	B2.3	B1.3	A4.0	A2.1	A2.5	B2.4	B1.7	B2.0	B2.0
2	B1.9	A3.9	B5.1	B1.9	B1.9	A4.5	A2.0	A3.4	B2.3	B1.8	B3.1	B2.4
3	B1.5	A4.5	B5.4	B1.7	B1.4	A7.6	A4.1	A3.2	B2.6	B2.0	B3.7	B1.8
4	B1.5	A5.7	B4.5	B1.4	A8.3	B1.3	A4.5	A6.6	B2.0	B1.7	B2.8	B1.8
5	B1.7	A6.8	B4.9	B1.4	A5.0	B2.1	A4.7	A7.1	B2.8	B2.7	B2.9	B1.4
6	B1.7	A6.8	B4.3	B1.3	A4.7	B1.8	A6.4	A7.8	B2.3	B1.9	B2.9	B1.2
7	B3.2	A6.4	B4.9	B1.2	A6.5	B2.2	A7.8	A6.9	B2.7	B1.6	B3.0	B1.5
8	B4.0	B1.1	B4.9	A9.2	A7.3	B2.0	B1.1	A6.1	B2.4	B2.2	B2.3	B1.0
9	B5.3	B1.3	B7.0	A6.8	A9.5	B1.9	B1.6	A8.5	B4.1	B2.2	B2.1	A8.1
10	B4.3	B1.7	B5.2	A5.2	A7.9	B2.1	B1.4	B1.0	B4.1	B2.4	B1.9	A5.5
11	B3.1	A5.5	B2.1	A5.8	A8.6	B2.1	B1.4	A9.2	B4.4	B1.5	B3.2	A4.0
12	B2.8	A5.6	B1.3	A8.5	B1.6	B1.8	B1.8	A6.9	B3.4	B1.6	B7.8	A4.3
13	B3.0	A5.5	B1.0	A9.5	B2.6	B1.6	B1.7	A4.6	B2.7	B1.3	B5.8	A3.4
14	B4.7	A8.3	B1.4	A8.7	B7.3	B1.5	B1.6	A5.4	B6.8	B1.4	C1.0	A3.6
15	B3.2	A7.0	B1.9	B1.0	C1.6	B1.6	B1.4	A5.3	B2.9	B1.3	B5.9	A3.7
16	B1.9	A7.1	B2.5	B1.5	C1.6	B1.4	B1.4	A5.5	B2.7	B1.8	B1.0	A3.3
17	B1.8	A7.9	B2.0	B1.1	C1.5	B1.3	B1.4	A5.5	B1.4	B2.3	A5.4	A3.6
18	B1.9	B1.1	B2.0	B1.1	B7.1	B2.1	B1.6	A4.8	A8.8	B1.5	A2.9	A6.1
19	B1.4	B1.2	B2.5	B1.2	B6.8	B1.6	B1.4	A3.5	A6.9	B1.0	A1.3	B1.0
20	B1.9	B2.1	B1.1	B1.3	B8.7	A7.0	A7.7	A2.5	A8.4	A8.8	A1.3	B1.4
21	B1.4	B2.2	B1.4	B1.5	B6.2	A9.9	A6.2	A1.5	A9.4	A7.8	A1.3	B1.8
22	B1.4	B4.0	B2.7	B1.3	B3.0	B1.1	A6.9	A2.6	A6.9	A6.1	A1.8	B1.7
23	A9.8	B3.8	B3.0	B1.1	B1.5	B1.1	A7.5	A5.5	A6.6	A5.3	A4.2	B5.5
24	A8.1	B4.7	B2.6	B1.3	A9.3	A6.4	A5.8	B1.1	A9.1	A3.4	A4.3	B3.5
25	A6.1	B3.9	B2.8	B1.0	A8.6	A2.1	A3.7	B1.0	A7.3	A2.7	A6.3	B1.9
26	A5.9	B3.4	B2.5	A9.2	A8.7	A1.4	A3.1	B1.1	A9.9	A4.8	A8.9	B1.8
27	A6.2	B3.9	B1.9	B1.2	A5.6	A1.7	A3.3	B1.2	B1.9	A8.0	B1.7	B1.1
28	A8.1	B4.4	B2.1	B2.4	A4.7	A1.5	A2.8	B1.3	B1.5	A5.7	B1.8	A8.7
29	A6.1	B4.0	B1.6	B2.8	A4.4		A2.7	B1.2	B1.1	A8.6	B1.8	A9.1
30	A5.4	B4.8	B1.9	B1.8	A4.6		A2.0	B1.6	B1.2	B1.5	B2.6	A8.5
31		B4.5		B1.5	A4.4		A1.7		B1.6		B2.2	A7.1

Levels below B1.0 are unreliable.

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

Sep 2004 - Aug 2005

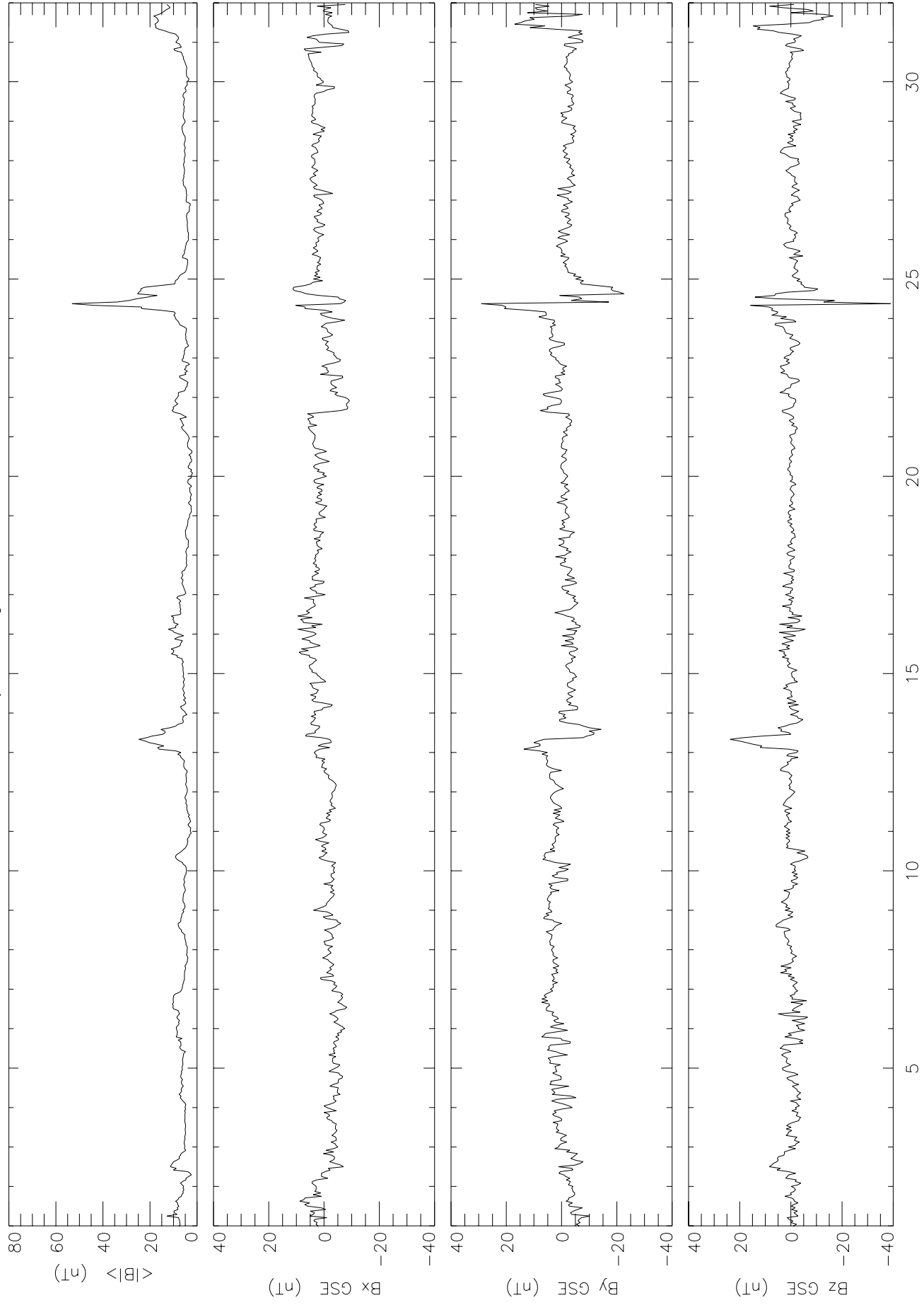
Version 9.1



Day	Sep 04	Oct	Nov	Dec	Jan 05	Feb	Mar	Apr	May	Jun	Jul	Aug
1	0.2689	0.2707	0.2739	0.2729	0.2724	0.2687	0.2675	0.2677	0.2706	0.2718	0.2715	0.2729
2	0.2690	0.2711	0.2731	0.2723	---	0.2685	0.2673	0.2678	0.2707	0.2716	0.2726	0.2733
3	0.2701	0.2713	0.2729	0.2724	0.2707	0.2683	0.2673	0.2685	0.2718	0.2710	0.2732	0.2729
4	0.2709	0.2715	0.2725	0.2720	0.2702	0.2682	0.2674	0.2689	0.2720	0.2708	0.2738	0.2725
5	0.2717	0.2714	0.2722	0.2714	0.2697	0.2683	0.2677	---	0.2719	0.2712	0.2739	0.2717
6	0.2724	0.2712	0.2728	0.2709	0.2694	0.2691	0.2681	0.2699	0.2721	0.2715	0.2737	0.2706
7	0.2728	0.2717	0.2721	0.2705	0.2693	0.2701	0.2687	0.2706	0.2715	0.2717	0.2730	0.2700
8	0.2732	0.2718	0.2721	0.2702	0.2691	0.2709	0.2693	0.2706	---	0.2718	0.2726	0.2698
9	0.2735	0.2713	0.2717	0.2704	0.2687	0.2719	0.2698	0.2709	---	0.2716	0.2718	0.2691
10	0.2742	0.2709	0.2712	0.2702	0.2689	0.2724	0.2708	0.2712	---	---	0.2708	0.2684
11	0.2743	0.2704	0.2707	0.2702	0.2687	0.2725	0.2718	0.2708	---	0.2708	0.2702	---
12	0.2748	0.2702	0.2708	0.2702	0.2692	0.2732	0.2722	0.2706	---	0.2707	0.2694	0.2678
13	0.2737	0.2703	0.2708	0.2701	0.2698	0.2734	0.2725	0.2703	---	0.2699	0.2691	0.2676
14	0.2729	0.2700	0.2712	---	0.2707	0.2736	0.2726	0.2703	---	0.2690	---	0.2675
15	0.2721	0.2705	0.2713	0.2693	0.2716	0.2736	0.2725	0.2703	---	0.2690	0.2685	0.2674
16	0.2725	0.2706	0.2712	0.2692	0.2722	0.2732	0.2723	0.2700	---	0.2686	0.2681	0.2675
17	0.2727	0.2707	0.2715	---	0.2726	0.2728	0.2721	0.2699	---	0.2683	0.2679	0.2678
18	0.2726	0.2708	0.2712	0.2698	0.2728	0.2717	0.2712	0.2697	---	0.2685	0.2674	0.2681
19	0.2719	0.2709	0.2716	0.2700	0.2731	0.2712	0.2708	0.2692	---	0.2685	0.2672	0.2689
20	0.2717	0.2715	0.2719	0.2704	0.2729	0.2706	0.2701	0.2689	---	0.2687	0.2674	0.2697
21	---	0.2719	0.2721	0.2707	0.2729	0.2701	0.2699	0.2689	---	0.2688	0.2676	0.2702
22	---	0.2722	0.2725	0.2714	0.2723	0.2698	0.2697	0.2685	---	0.2691	0.2677	0.2710
23	0.2695	0.2727	0.2724	0.2720	0.2718	0.2693	0.2692	0.2680	---	---	0.2682	0.2707
24	0.2693	0.2732	---	0.2727	0.2716	0.2689	0.2694	0.2681	---	0.2688	0.2688	0.2714
25	0.2694	0.2736	0.2735	0.2729	0.2710	0.2686	0.2693	0.2677	---	0.2690	0.2694	---
26	0.2692	0.2739	0.2737	0.2726	0.2707	0.2684	0.2690	0.2685	---	0.2692	0.2701	0.2720
27	0.2692	0.2743	0.2744	0.2724	0.2705	0.2677	0.2687	0.2689	---	0.2694	0.2702	0.2722
28	0.2690	0.2743	0.2745	0.2723	0.2697	0.2676	0.2684	0.2695	0.2702	0.2698	0.2707	0.2723
29	0.2693	0.2746	0.2741	0.2717	0.2695	---	0.2682	0.2697	0.2706	0.2702	0.2714	0.2720
30	0.2699	0.2744	0.2736	0.2716	0.2691	---	0.2680	0.2700	0.2710	0.2709	0.2720	0.2717
31	---	0.2747	---	0.2716	0.2689	---	0.2678	---	0.2715	---	0.2724	0.2708
Mean	0.2715	0.2719	0.2723	0.2723	0.2707	0.2707	0.2697	0.2694	0.2712	0.2700	0.2703	0.2703

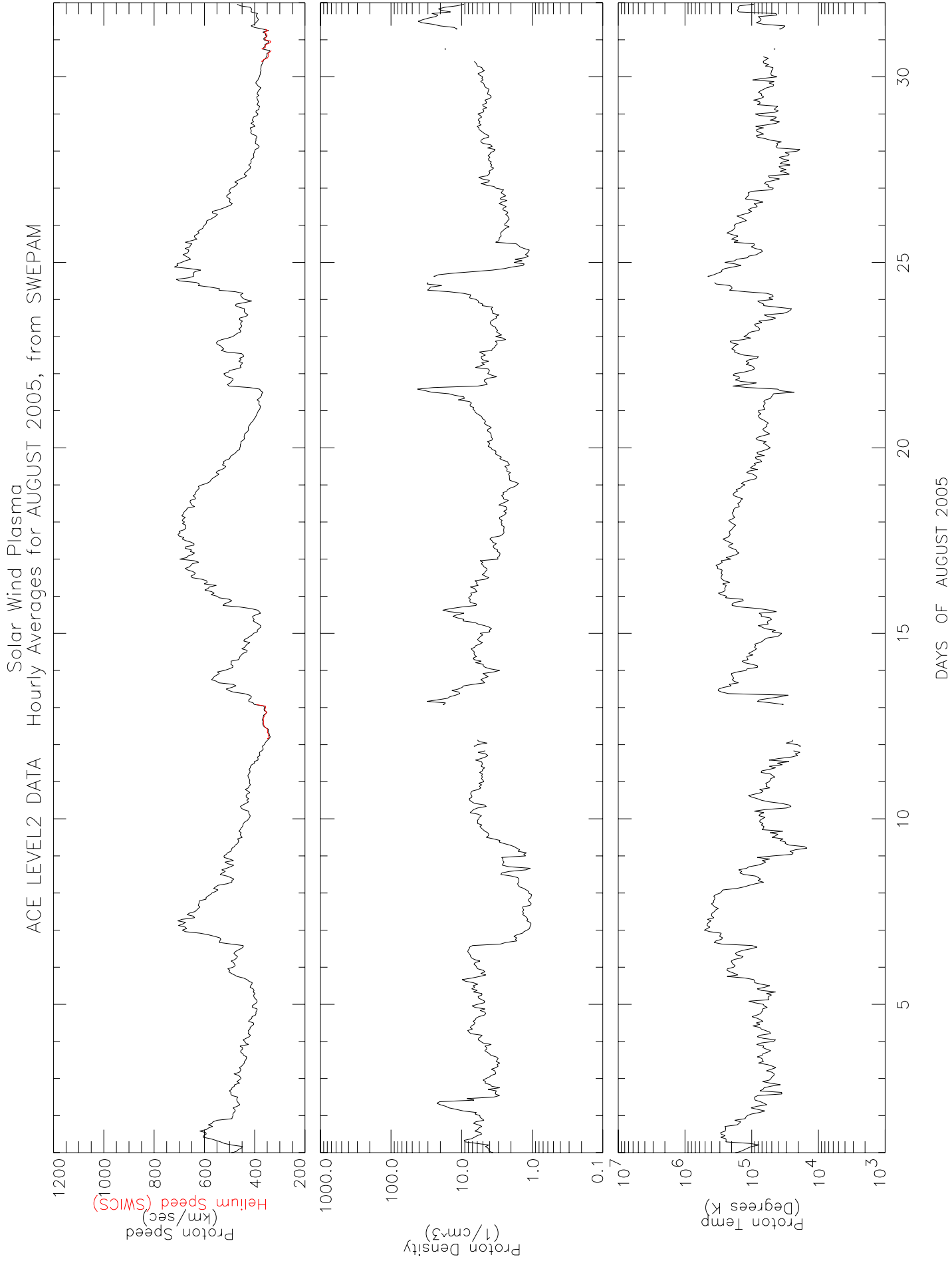
Data at: <http://www.sec.noaa.gov/ftpmenu/sbu.html>

ACE LEVEL2 DATA Interplanetary Magnetic Field
Hourly Averages for AUGUST 2005, from MAG

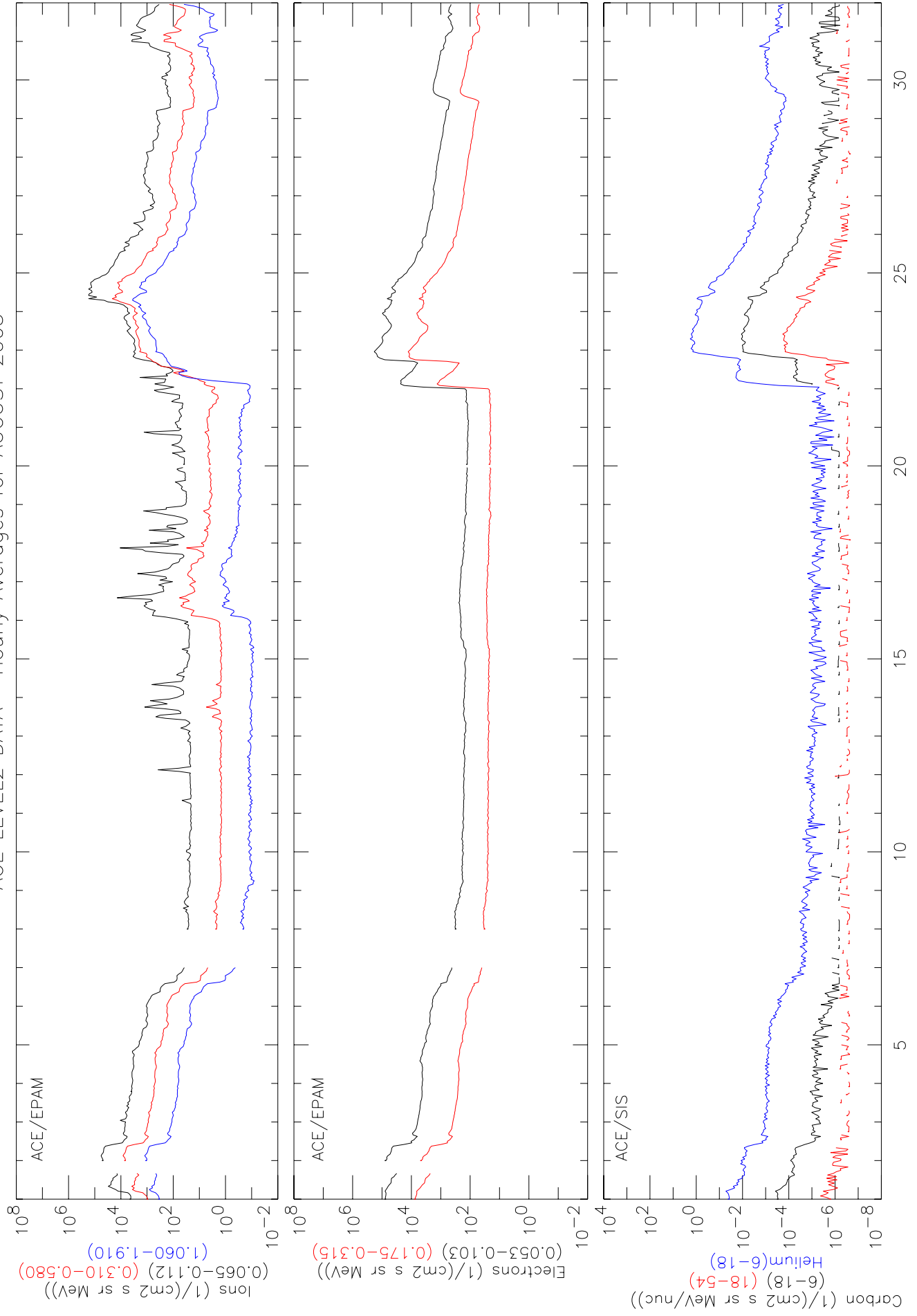


DAYS OF AUGUST 2005

ACE LEVEL2 DATA Hourly Averages for AUGUST 2005, from SWEPAM



Solar Energetic Particles ACE LEVEL2 DATA Hourly Averages for AUGUST 2005



**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
AUGUST 2005

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		
2005/08/01	12:54:05	104	22	463	758	181	0	-114.1*	99	Only 3 points	
2005/08/01	14:30:21	83	93	984	855	1128	1065	17.9	68		
2005/08/02	07:54:05	72	21	491	532	449	262	-9.2*	80		
2005/08/02	09:06:05	108	41	232	209	258	325	2.6*	109		
2005/08/02	13:31:50	89	69	481	507	456	409	-3.7	109		
2005/08/02	14:30:05	261	46	160	118	197	392	5.9*	269		
2005/08/02	18:54:05	91	79	580	573	588	593	1.0	114		
2005/08/02	20:06:07	264	34	267	327	208	0	-9.1*	259		
2005/08/02	23:54:07	262	39	208	168	249	409	5.9	259		
2005/08/03	03:54:05	59	41	303	357	248	0	-10.1*	61		
2005/08/03	05:30:06	104	65	479	559	392	389	-6.7	115		
2005/08/03	14:54:05	115	14	439	501	380	0	-33.0*	117	Only C2	
2005/08/03	19:31:56	98	28	371	305	438	452	4.6	96		
2005/08/04	01:54:05	311	7	567	535	599	681	7.4	309		
2005/08/04	02:06:05	95	77	272	0	528	491	10.4	112		
2005/08/04	12:54:05	354	9	440	----	----	----	-----	354	2 points; Only C2	
2005/08/04	23:54:05	272	31	318	297	340	457	5.0*	274		
2005/08/05	08:54:05	23	233	494	501	487	482	-0.8	52	Uncertain Width; Partial Halo	
2005/08/05	12:30:05	322	54	198	0	355	473	9.4*	323		
2005/08/06	00:54:05	295	7	137	124	148	178	0.7	295		
2005/08/06	10:27:30	76	9	258	267	249	193	-1.4*	81		
2005/08/06	12:48:14	253	32	737	770	703	661	-6.5	250		
2005/08/07	03:30:12	335	59	218	137	306	429	7.1*	337		
2005/08/07	06:30:05	79	66	122	----	----	----	-----	73		
2005/08/07	12:30:05	287	32	97	----	----	----	-----	290	2 points; Only C2	
2005/08/07	13:31:44	282	63	753	693	823	786	6.0	277		
2005/08/08	02:30:05	256	4	309	----	----	----	-----	256	2 points; Only C2	
2005/08/08	06:54:05	228	5	351	----	----	----	-----	229	2 points; Only C2	
2005/08/08	11:54:05	260	11	693	799	585	138	-25.4	259		
2005/08/08	13:31:46	215	4	----	----	----	----	-----	215	1 point; Only C2	
2005/08/09	05:54:05	215	3	609	----	----	----	-----	218	2 points; Only C2	
2005/08/09	13:31:43	236	4	643	----	----	----	-----	236	2 points; Only C2	
2005/08/09	17:59:55	275	13	276	254	295	319	1.7*	276		
2005/08/10	19:31:16	195	2	320	----	----	----	-----	193	2 points; Only C2	
2005/08/11	15:54:05	231	5	454	678	229	0	-91.7*	231		
2005/08/11	19:31:43	95	10	751	641	862	1427	66.4*	90		
2005/08/12	05:30:06	356	10	385	----	----	----	-----	357	3 points; Only C2	
2005/08/12	08:30:05	278	24	220	185	258	352	3.8	269		
2005/08/12	12:37:46	99	18	799	566	1058	1338	76.9*	96	3 points; Only C3 Only C2	
2005/08/12	14:04:15	241	5	802	623	980	1764	113.8*	243		
2005/08/13	01:54:05	114	47	34	----	----	----	-----	110	Only C2	
2005/08/13	03:54:08	288	42	325	303	348	457	5.1	289		
2005/08/13	05:30:05	276	35	355	106	628	2415	241.7*	283	3 points; Only C2	
2005/08/13	13:31:43	251	10	912	663	1161	1678	115.2*	257		

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
AUGUST 2005

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		
2005/08/14	01:31:41	252	13	705	768	641	608	-9.2*	256		
2005/08/14	10:56:03	68	8	301	200	392	1164	55.0*	69	3 points;Only C2	
2005/08/15	11:54:05	2	10	841	----	----	----	-----	1	2 points;Only C2	
2005/08/15	23:06:05	269	4	419	481	357	0	-13.5*	271		
2005/08/15	23:54:07	117	78	289	350	228	0	-21.1*	132	Only C2	
2005/08/16	12:54:05	31	14	421	353	488	705	15.5*	30		
2005/08/17	07:54:15	68	38	484	662	307	0	-71.7*	71		
2005/08/17	08:06:05	243	11	256	175	337	409	6.1	244		
2005/08/18	10:30:16	142	5	442	284	616	1942	154.6*	139	3 points;Only C2	
2005/08/18	12:54:06	238	20	219	281	152	0	-35.9*	236	3 points;Only C2	
2005/08/18	16:54:05	242	21	351	387	315	109	-5.9*	250		
2005/08/18	18:30:06	243	20	319	312	325	367	1.6*	249		
2005/08/19	12:54:05	115	60	246	177	309	588	12.7	116		
2005/08/19	18:06:05	252	5	587	742	413	0	-114.1*	251	Only 3 points	
2005/08/19	19:30:05	30	104	162	69	245	744	22.4*	48	Only C2	
2005/08/19	23:06:05	19	145	239	274	206	0	-7.3*	54	Uncertain Width;	
Partial Halo											
2005/08/20	04:15:17	249	32	182	61	452	1407	82.8*	251	3 points;Only C2	
2005/08/20	05:58:33	54	57	27	----	----	----	-----	49	Only C2	
2005/08/20	08:05:28	38	88	161	172	150	0	-1.3	47		
2005/08/20	10:09:47	262	241	163	85	245	345	4.6	261	Uncertain Width;	
Partial Halo											
2005/08/20	18:57:47	55	71	342	369	316	99	-5.4	55		
2005/08/20	21:30:08	20	157	421	512	324	76	-10.6	64	Uncertain Width;	
Partial Halo											
2005/08/20	23:06:49	258	45	266	221	311	698	18.1	255	Only C2	
2005/08/21	05:54:05	254	40	187	242	132	0	-18.6*	258	Only C2	
2005/08/21	07:31:43	60	84	493	607	379	0	-28.1*	54		
2005/08/21	09:54:05	269	23	39	62	14	0	-5.5*	269	Only C2	
2005/08/21	12:06:05	267	61	287	245	327	606	12.6	255	Only C2	
2005/08/21	19:31:47	14	5	638	----	----	----	-----	14	2 points;Only C2	
2005/08/22	01:31:48	Halo	360	1194	1292	1086	1127	-17.8	220		
2005/08/22	05:30:05	222	56	754	265	1182	1443	85.9*	226		
2005/08/22	07:31:46	48	95	142	62	220	310	3.8	52		
2005/08/22	08:30:05	120	66	149	0	328	565	13.3*	124		
2005/08/22	15:54:19	69	43	567	545	588	676	6.6	76		
2005/08/22	17:30:05	Halo	360	2378	2150	2612	2585	108.0*	227		
2005/08/22	22:30:05	270	57	819	416	1157	1208	54.4	275		
2005/08/23	02:30:05	244	50	355	318	397	453	4.4*	229		
2005/08/23	03:06:07	75	74	738	967	480	516	-29.3	78		
2005/08/23	07:31:45	68	48	800	709	901	855	10.3	60		
2005/08/23	14:54:05	Halo	360	1929	1749	2123	2022	44.2	230		
2005/08/24	08:30:05	75	24	726	625	838	1668	98.5*	74	3 points;Only C2	
2005/08/24	11:30:05	71	16	----	----	----	----	-----	67	C2;can't measure	
2005/08/24	12:30:05	68	10	623	454	784	1198	50.3*	66		
2005/08/24	16:06:05	88	6	500	225	776	2166	191.3*	88	3 points;Only C2	
2005/08/24	21:54:05	91	7	465	410	519	726	15.1*	87		

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
AUGUST 2005

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	
2005/08/25	04:54:05	115	146	1327	1734	894	1240	-66.5	75	Partial Halo
2005/08/25	14:06:05	75	38	837	1073	594	348	-43.1	82	
2005/08/25	18:54:05	92	4	361	415	309	0	-21.1*	87	Only 3 points
2005/08/25	21:30:08	78	29	329	----	----	----	-----	79	2 points; Only C2
2005/08/26	00:30:05	94	8	705	887	511	0	-46.8	90	
2005/08/26	03:30:05	72	23	281	232	330	598	12.4	70	
2005/08/26	06:30:05	82	37	516	622	409	97	-15.5	87	
2005/08/26	08:54:05	72	56	448	225	701	660	15.9	67	
2005/08/26	12:06:05	79	60	635	733	530	547	-10.0	89	
2005/08/26	17:54:06	260	46	569	527	620	631	5.0	257	
2005/08/26	21:54:05	100	13	631	679	587	229	-18.1*	93	
2005/08/27	00:06:05	83	36	536	568	505	349	-8.3*	91	
2005/08/27	05:30:05	84	40	352	471	235	0	-21.4*	93	
2005/08/27	11:54:07	93	7	334	370	301	0	-32.3*	90	3 points; Only C2
2005/08/27	17:30:05	75	16	388	433	343	0	-7.9	77	
2005/08/27	21:30:08	99	7	323	203	455	1678	117.2*	96	3 points; Only C2
2005/08/28	00:54:06	265	21	549	466	633	914	26.6*	260	
2005/08/28	03:18:05	271	85	518	478	561	557	4.2*	264	Only C3
2005/08/28	06:06:05	80	34	616	389	843	1986	157.3*	77	3 points; Only C2
2005/08/28	10:56:07	95	76	1047	1193	890	878	-30.8	84	
2005/08/29	01:54:05	256	19	598	839	357	0	-96.2*	257	
2005/08/29	05:54:05	99	25	212	297	119	0	-23.9*	104	Only C2
2005/08/29	06:54:31	245	9	432	269	603	807	24.0*	250	
2005/08/29	10:54:05	Halo	360	1600	1850	1339	1489	-54.5	221	
2005/08/29	23:30:05	95	57	519	456	591	609	6.6	103	
2005/08/30	09:06:05	17	5	565	----	----	----	-----	20	2 points; Only C2
2005/08/31	07:31:45	154	20	439	475	403	227	-7.2*	154	
2005/08/31	07:31:45	24	148	391	334	446	580	9.2*	34	Partial Halo
2005/08/31	07:54:05	115	58	606	1034	176	0	-167.8*	112	
2005/08/31	10:06:06	51	178	565	645	486	228	-16.0*	44	Partial Halo
2005/08/31	11:30:05	Halo	360	825	551	1116	1165	42.9	287	
2005/08/31	15:54:05	122	36	26	36	16	0	-0.7*	119	Only C2
2005/08/31	16:54:06	289	11	402	550	254	0	-46.0*	285	
2005/08/31	22:30:05	Halo	360	1808	1981	1635	1737	-43.6	181	

If you use data from this catalog, please acknowledge as follows:

"This CME catalog is generated and maintained by the Center for Solar Physics and Space Weather, The Catholic University of America in cooperation with the Naval Research Laboratory and NASA. SOHO is a project of international cooperation between ESA and NASA."

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

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.