

JULY 2002 NUMBER 695 - Part II



# Solar-Geophysical Data comprehensive reports

Data for January 2002 and Miscellaneous  
Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

## COMING ATTRACTIONS:

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

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World-Wide Web <http://www.ngdc.noaa.gov>  
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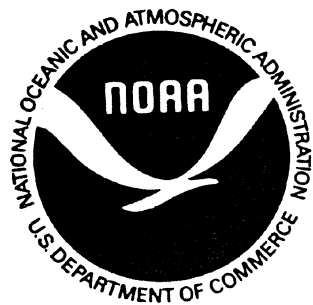
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NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,  
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL  
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JULY 2002 NUMBER 695 - Part II

# **Solar-Geophysical Data comprehensive reports**

Data for January 2002 and Late Data

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## **NATIONAL GEOPHYSICAL DATA CENTER**

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Boulder, Colorado

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# SOLAR-GEOPHYSICAL DATA

Number 695

(Issued in Two Parts)

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-- COMING ATTRACTIONS --

**ACE SOLAR WIND, INTERPLANETARY MAGNETIC FIELD AND PARTICLES**

-- MONTHLY PLOTS

## DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

CODE	KIND OF OBSERVATION	NOV 01	DEC	JAN 02	FEB	MAR	APR	MAY	JUN
<b>A. SOLAR AND INTERPLANETARY</b>									
A.1	Sunspot Drawings	689A 56	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	
A.2aa	International Provisional Sunspot Numbers	688A 26	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26
A.2c	American Sunspot Numbers	688A 26	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26
A.3a	Mt. Wilson Magnetograms	689A 56	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	
A.3b	Sunspot Mag Class and Regions	689A103	690A 98	691A 90	692A 86	693A 91	694A 91	695A 86	
A.3c	Kitt Peak Magnetograms	689A 56	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	
A.3d	Mean Solar Magnetic Field (Stanford)	688A 45	689A 45	690A 43	691A 41	692A 39	693A 41	694A 41	695A 35
A.3e	Stanford Magnetograms	689A 56	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	
A.4	H-alpha Filtergrams	689A 56	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	
A.5d	Photometric Ca II Faculae (San Fernando)	Jan 92-Dec 96 in 631B 22; 1997-1998 in 663B 66							
A.6c	Stanford Solar Mag Field Synoptic Maps	689A 50	690A 48	691A 44	692A 44	693A 44	694A 46	695A 38	
A.6d	Kitt Peak Solar Mag Field Synoptic Maps								
A.6f	Active Prominences and Filaments	693B 59	694B 50	695B 39					
A.6g	Sac Peak Coronal Line Synoptic Maps	689A 56	690A 50	691A 46	692A 46	693A 46	694A 48	695A 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)	689A 56	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	
A.7j	Coronal Hole Daily Maps (NSO/KP)	689A 94	690A 89	691A 81	692A 78	693A 81	694A 82	695A 75	
A.7k	Coronal Index (Slovak Academy)	1939-1996 in 644B 28							
A.7m	Coronal Mass Ejections (CSPSW)	693A 60	694A 52						
A.8aa	2800 MHz- Solar Flux (Penticton)	688A 26	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26
A.8ac	2800 MHz- Adj. Solar Flux (Penticton)	688A 26	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26
A.8g	Adjusted Daily Solar Fluxes (Learmonth)	688A 26	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26
A.10g	Nancay Radioheliograph - 164&327 MHz	689A144	690A145	691A130	692A137	693A137	694A147	695A143	
A.10h	Nobeyama Radioheliograph Maps - 17 GHz	689A 98	690A 92	691A 84	692A 81	693A 85	694A 86	695A 80	
A.11g	Solar X-ray GOES (graphs/event table)	693B 50	694B 41	695B 30					
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.11n	Solar YOHKOH Soft X-ray Images	689A 86	690A 85						
A.11o	Solar UV SUSIM (UARS)	Oct 91-Jan 97 in 629B 30							
A.11p	Solar UV Mg II Daily Index	694B 82	694B 82	695B 40					
A.12g	Solar Particles (GOES-7)	688A 4	689A 4	690A 4	691A 4	692A 4	693A 4	694A 4	695A 4
A.12h	Interplanetary Particles (SAMPEX)	Jul 95-Dec 96 in 632B 22; Jan-Dec 97 in 647B 33							
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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							
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A.17	IMP-8 Interplanetary Mag Field								
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C.1d	Flare Patrol Observations	693B 21	694B 23	695B 18					
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	693B 23	694B 25	695B 20					
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D.1cb	Monthly Mean aa Indices	689A154	690A159	691A142	692A150	693A151	694A161	695A157	
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F.1m	Cosmic Ray Neutron Cts (Haleakala)	689A146	690A147	691A131	692A139	693A140	694A150	695A146	
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The entry "689A 56" under Nov 01, for example, means that the sunspot drawings for Nov 01 appear in SOLAR-GEOPHYSICAL DATA No. 689, Part I, and that they begin on page 56. "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

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Jan 02

H $\alpha$  SOLAR FLARES

JANUARY 2002

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0001	LEAR	01	0533	0533	0538	S14	E51	9767	01	5.1	5	SF		3	E		12			
			01 0949		0951															No Flare Patrol
			01 1101		1105															No Flare Patrol
0002	KANZ	01	1311	1311	1313	N15	W29	9764	12	30.4	2	SF		2	E					
			01 1403		1840															No Flare Patrol
			01 2036		2123															No Flare Patrol
			01 2209		2400															No Flare Patrol
			02 0000		0057															No Flare Patrol
0003		02	01157	0123	0138	N13	W40	9764	12	30.1	23	SN					86	2.0	BF	
	LEAR	02	0115	0123	0143	N13	W40	9764	12	30.1	28	SF	2	E			27		F	
	MITK	02	0122	0123	0132	N13	W40	9764	12	30.1	10	SB		C	0123		144	2.0	B	
			02 0244		0258															No Flare Patrol
			02 0301		0306															No Flare Patrol
0004		02	0308*	04242	0438	N13	W42	9764	12	30.1	90	SN					81	1.6	DF	
	LEAR	02	0308	0426	0445	N13	W42	9764	12	30.1	97	SF	2	E			52		F	
	MITK	02	0420	0424	0432	N13	W41	9764	12	30.2	12	SN		C	0424		110	1.6	D	
0005	LEAR	02	0313	0319	0325	N04	W90	9751	12	26.5	12	SF		3	E		15			
0006	MITK	02	0331	0332	0334	N13	W42	9764	12	30.1	3	SN			C	0332	79	1.1	D	
0007	LEAR	02	0336	0341	0403	S06	W58	9754	12	28.9	27	SF		2	E		70		F	
0008	LEAR	02	0407	0410	0423	S06	W60	9754	12	28.8	16	SF		2	E		16			
0009	LEAR	02	0504	0513	0516	N13	W44	9764	12	30.0	12	SF		2	E		16			
0010	LEAR	02	0517	0542	0556	N13	W43	9764	12	30.1	39	SF		2	E		20			
0011	LEAR	02	0757	0800	0808	S07	W56	9754	12	29.2	11	SF		3	E		38			
0012		02	09057	09121	0918	S08	W57	9754	12	29.2	13	SF					29		F	
	LEAR	02	0905	0912	0919	S08	W57	9754	12	29.2	14	SF	3	E			47		F	
	KANZ	02	0905	0912	0921	S07	W57	9754	12	29.2	16	SF	2	E						
	SVTO	02	0912	0913	0914	S08	W58	9754	12	29.1	2	SF	2	E			11			
0013		02	1136	11361	1152	S20	E36	9767	01	5.2	16	SF					11		F	
	SVTO	02	1136	1136	1155	S20	E36	9767	01	5.2	19	SF	3	E			11		F	
	KANZ	02	1136	1137	1150	S20	E36	9767	01	5.2	14	SF	2	E						
0014		02	1230	1231	1306	S27	E42	9767	01	5.8	36	SF					17		F	
	SVTO	02	1230	1231	1306	S25	E40	9767	01	5.6	36	SF	3	E			17		F	
	KANZ	02	1237E	1237U	1305	S29	E45	9767	01	6.0	28D	SF	2	E						
0015	SVTO	02	1231	1232	1236	S06	W60	9754	12	29.1	5	SF		3	E		11			
0016		02	1249	1252	1316	S07	W64	9754	12	28.8	27	1N					125			
	KANZ	02	1249	1252	1307	S07	W59	9754	12	29.2	18	1N	2	E						
	SVTO	02	1249	1252	1326	S07	W68	9754	12	28.5	37	1N	3	E			125			
0017	SVTO	02	1444	1451	1455	S22	E42	9767	01	5.8	11	SF		3	E		18			
			02 1517		1719															No Flare Patrol
0018	RAMY	02	1739	1739	1747	N14	W49	9764	12	30.1	8	SF		3	E		16			
			02 2116		2219															No Flare Patrol
			02 2223		2241															No Flare Patrol
0019	LEAR	03	0034	0035	0037	S07	W69	9754	12	28.9	3	SF		3	E		24			
0020	LEAR	03	0105	0105	0110	S21	E37	9767	01	5.9	5	SF		3	E		13			

JANUARY 2002

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0021		03	02122	02162	0237	S12	E12		01	4.0	25	2N					395	6.1	F
	LEAR	03	0212	0216	0242	S11	E12		01	4.0	30	1F		3	E		220		F
	MITK	03	0214	0218	0232	S12	E11		01	3.9	18	2N			C	0218	570	6.1	F
0022	LEAR	03	0216	0221	0249	S19	E36	9767	01	5.8	33	SF		3	E		38		
0023	LEAR	03	0235	0236	0238	S06	W66	9754	12	29.3	3	SF		3	E		35		
0024		03	0401*	0401*	0412	S06	W68	9754	12	29.2	11	SF					29		
	LEAR	03	0401	0401	0408	S05	W69	9754	12	29.1	7	SF		3	E		20		
	LEAR	03	0412	0412	0416	S06	W67	9754	12	29.3	4	SF		3	E		38		
0025	LEAR	03	0712	0714	0731	S06	W75	9754	12	28.8	19	SF		3	E		33		
0026	LEAR	03	0841	0843	0848	N14	W60	9764	12	29.9	7	SF		3	E		19		F
0027	KANZ	03	0954	0954	0959	N08	W34	9770	12	31.9	5	SF		2	E				
0028		03	11461	1147	1154	N08	W35	9770	12	31.9	8	SF					18		
	KANZ	03	1146	1147	1154	N08	W35	9770	12	31.9	8	SF		2	E				
	RAMY	03	1147	1147	1155	N07	W35	9770	12	31.9	8	SF		3	E		18		
0029	RAMY	03	1215	1216	1224	S23	E31	9767	01	5.9	9	SF		3	E		12		
0030	RAMY	03	1343	1344	1349	N12	W82	9758	12	28.5	6	SF		3	E		19		
0031	RAMY	03	1431	1435	1441	N07	W37	9770	12	31.8	10	SF		3	E		18		
0032	RAMY	03	1440	1441	1447	N12	W82	9758	12	28.5	7	SF		3	E		46		
0033	RAMY	03	1505	1514	1519	N12	W82	9758	12	28.5	14	SF		3	E		49		
0034	HOLL	03	1712	1716	1722	S26	E30	9767	01	6.0	10	SF		3	E		36		
			2046		2227	No Flare Patrol													
0035	LEAR	03	2303	2309	2334	S17	E16	9767	01	5.2	31	SF		2	E		21		F
0036	LEAR	04	0705	0707	0710	S04	W62	9754	12	30.8	5	SF		3	E		24		
0037		04	08162	08211	0844	S10	W05		01	4.0	28	SF					36		F
	KANZ	04	0816	0821	0847	S10	W05		01	4.0	31	SF		2	E				
	LEAR	04	0818	0822	0841	S11	W05		01	4.0	23	SF		3	E		36		F
0038	KANZ	04	1043	1045	1059	S24	E04	9771	01	4.7	16	SF		2	E				
0039	RAMY	04	1237	1239	1247	S05	W53	9768	12	31.6	10	SF		3	E		10		
0040	RAMY	04	1740	1740	1745	N16	E71	9773	01	10.1	5	SF		3	E		19		F
0041	RAMY	04	1827	1829	1844	N14	E66	9773	01	9.7	17	1F		3	E		164		F
0042	HOLL	04	1827	1829	1842	N13	E58	9773	01	9.1	15	1F		3	E		121		F
0043		04	1856	1857	1908	N14	E65	9773	01	9.7	12	SF					32		
	HOLL	04	1856	1857	1907	N14	E64	9773	01	9.6	11	SF		3	E		37		
	RAMY	04	1856	1857	1908	N13	E66	9773	01	9.8	12	SF		3	E		26		
0044		04	1900	19002	1908	S24	E14	9767	01	5.9	8	SF					11		FH
	RAMY	04	1900	1900	1907	S24	E15	9767	01	5.9	7	SF		3	E		10		H
	HOLL	04	1900	1902	1908	S24	E14	9767	01	5.9	8	SF		3	E		12		F
0045	HOLL	04	2013	2039U	2100	N14	E67	9773	01	9.9	47	1F		3	E		100		F
0046	RAMY	04	2039	2039	2043	S22	E04	9767	01	5.2	4	SF		3	E		17		
			2131		2242	No Flare Patrol													
0047	LEAR	04	2255	2256	2300	S20	E03	9767	01	5.2	5	SF		2	E		49		F

6  
Jan 02

H $\alpha$  SOLAR FLARES

JANUARY 2002

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)		
0048	LEAR	05	0059	0100	0106	S19	E02	9767	01	5.2	7	SF		3	E		49			
0049	LEAR	05	0221	0238	0244	N14	E62	9773	01	9.8	23	SF		3	E		44		F	
0050	LEAR	05	0247	0251	0258	S19	E01	9767	01	5.2	11	SF		3	E		34			
0051	LEAR	05	0257	0303	0308	N16	E61	9773	01	9.7	11	SF		3	E		16		F	
0052	LEAR	05	0305	0309	0322	S11	W16	9765A	01	3.9	17	SF		3	E		50		F	
0053	LEAR	05	0310	0313	0318	S06	W67	9768	12	31.1	8	SF		3	E		18		F	
0054		05	0611*	06344	0650	N17	E60	9773	01	9.8	39	SN					68	1.9	DF	
	LEAR	05	0611	0634	0658	N18	E62	9773	01	10.0	47	SF		3	E		50		F	
	MITK	05	0637	0638	0642	N16	E59	9773	01	9.7	5	SN			C	0638	87	1.9	D	
0055	LEAR	05	0616	0617	0624	S04	W66	9768	12	31.3	8	SF		3	E		47		F	
0056	LEAR	05	0617	0619	0621	S03	W75	9755	12	30.7	4	SF		3	E		17		F	
0057	LEAR	05	0707	0710	0715	S18	W01	9767	01	5.2	8	SF		3	E		41		F	
0058	LEAR	05	0748	0750	0755	S04	W67	9768	12	31.3	7	SF		3	E		29			
0059	SVTO	05	1013	1013	1016	S06	W67	9768	12	31.4	3	SF		3	E		13			
0060	SVTO	05	1028	1037	1100	N16	E58	9773	01	9.8	32	SF		3	E		38		F	
0061	SVTO	05	1123	1124	1131	S07	W72	9768	12	31.1	8	SF		3	E		28		F	
		05	1218		1219	No Flare Patrol														
		05	1222		1233	No Flare Patrol														
		05	1241		1320	No Flare Patrol														
		05	1406		1426	No Flare Patrol														
0062	HOLL	05	1501	1601	1644	S04	W69	9768	12	31.5	103	SF		3	E		67		F	
0063	HOLL	05	1708	1709	1744	N13	E57	9773	01	10.0	36	SF		3	E		32		F	
0064	HOLL	05	1821	1841	1907	N14	E53	9773	01	9.8	46	1F		3	E		154			
0065	HOLL	05	2001	2005	2010	S24	E01	9767	01	5.9	9	SF		3	E		18			
0066	HOLL	05	2202	2202	2208	S21	W21	9771	01	4.3	6	SF		3	E		25		F	
0067	LEAR	06	0155	0202	0211	N16	E50	9773	01	9.9	16	SF		4	E		36		F	
0068	LEAR	06	0456	0500	0515	S05	W82	9768	12	31.1	19	SF		3	E		92			
0069	LEAR	06	0548	0549	0551	N16	E49	9773	01	9.9	3	SF		3	E		12		F	
0070	LEAR	06	0552	0552	0555	N17	E49	9773	01	10.0	3	SF		3	E		21			
0071	LEAR	06	0558	0600	0602	N16	E49	9773	01	10.0	4	SF		3	E		21			
0072	LEAR	06	0606	0606	0615	N16	E49	9773	01	10.0	9	SF		3	E		16			
0073	LEAR	06	0648	0651	0702	S08	W84	9768	12	31.0	14	SF		3	E		80			
0074		06	09283	09321	0937	S18	W16	9767	01	5.2	9	SF					38		FH	
	KANZ	06	0928	0932	0936	S18	W16	9767	01	5.2	8	SF		2	E					
	LEAR	06	0929	0932	0938	S19	W15	9767	01	5.2	9	SF		2	E		52		F	
	SVTO	06	0931	0933	0937	S18	W16	9767	01	5.2	6	SF		3	E		24		FH	
0075	KANZ	06	1055	1058	1112	S18	W15	9767	01	5.3	17	SF		2	E					
0076	KANZ	06	1107	1113	1118	N15	E40	9773	01	9.5	11	SF		2	E					



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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)	
0077		06	1138	1140	1204	S17	W13	9767	01	5.5	26	SF					58		F
	SVTO	06	1138	1140	1203	S17	W13	9767	01	5.5	25	SF	3	E			58		F
	KANZ	06	1138	1140	1204	S17	W13	9767	01	5.5	26	SF	2	E					
0078		06	1211	1213	1222	N14	E48	9773	01	10.1	11	SF					15		
	KANZ	06	1211	1213	1222	N13	E47	9773	01	10.0	11	SF	2	E					
	SVTO	06	1212	1213	1221	N14	E49	9773	01	10.2	9	SF	3	E			15		
0079		06	1309	1310	1322	S21	W09	9767	01	5.8	13	SF					21		
	KANZ	06	1309	1310	1327	S21	W09	9767	01	5.8	18	SF	2	E					
	SVTO	06	1310	1310	1318	S21	W09	9767	01	5.8	8	SF	3	E			21		
0080		06	1353	1356	1406	N15	E40	9773	01	9.6	13	SF					21		
	KANZ	06	1353	1356	1359D	N15	E39	9773	01	9.5	6D	SF	2	E					
	SVTO	06	1354	1356	1406	N15	E40	9773	01	9.6	12	SF	3	E			21		
0081	SVTO	06	1440	1444	1448	S18	W18	9767	01	5.2	8	SF	3	E			42		
		06	1655		1700	No Flare Patrol													
0082	HOLL	06	1839	1842	1844	S18	W20	9767	01	5.2	5	SF	3	E			15		
0083	HOLL	06	2052	2053	2056	S18	W21	9767	01	5.3	4	SF	3	E			22		
		06	2137		2156	No Flare Patrol													
		06	2201		2231	No Flare Patrol													
0084	LEAR	07	0532	0532	0540	N16	E33	9773	01	9.7	8	SF	3	E			18		
0085	LEAR	07	0643	0645	0700	N15	E37	9773	01	10.1	17	1F	3	E			145		FH
0086		07	1318	1319	1334	S22	W24	9767	01	5.7	16	SF					20		F
	RAMY	07	1318	1319	1338	S22	W24	9767	01	5.7	20	SF	3	E			20		F
	KANZ	07	1319	1320	1329	S22	W24	9767	01	5.7	10	SF	2	E					
0087		07	1415	1418	1436	S21	W26	9767	01	5.6	21	SF					67		FU
	SVTO	07	1415	1418	1433	S22	W24	9767	01	5.7	18	SF	3	E			56		U
	RAMY	07	1415	1419	1439	S20	W27	9767	01	5.5	24	SF	3	E			78		UF
0088	RAMY	07	1559	1559	1608	N14	E27	9773	01	9.7	9	SF	3	E			13		
0089	RAMY	07	1819	1819	1822	N08	W58	9763	01	3.4	3	SF	3	E			19		H
0090	HOLL	07	2049	2050	2053	N07	W58	9765	01	3.5	4	SF	3	E			21		
0091	HOLL	07	2055	2058	2124	N13	E24	9773	01	9.7	29	SF	3	E			42		F
0092	HOLL	07	2245	2248	2307	N14	E24	9773	01	9.8	22	SF	3	E			28		F
0093	KANZ	08	1032	1032	1040	N11	E51	9776	01	12.3	8	SF	2	E					
0094		08	1254	1259	1307	N15	E15	9773	01	9.7	13	SF					30		FH
	KANZ	08	1254	1259	1309	N16	E14	9773	01	9.6	15	SF	2	E					
	SVTO	08	1256	1259	1304	N14	E15	9773	01	9.7	8	SF	3	E			17		FH
	RAMY	08	1256	1300	1307	N14	E17	9773	01	9.8	11	SF	3	E			43		F
0095		08	1715	1718	1751	S21	W40	9767	01	5.6	36	1F					154		FU
	RAMY	08	1715	1718	1753	S24	W38	9767	01	5.8	38	1F	3	E			149		UF
	HOLL	08	1717	1719	1749	S18	W42	9767	01	5.5	32	1F	3	E			158		UF
0096	HOLL	08	1722	1728	1734	S18	E79	9778	01	14.7	12	SF	3	E			25		
0097		08	2018	2022	2101	S18	W44	9767	01	5.5	43	SF					36		F
	RAMY	08	2018	2030	2106	S18	W44	9767	01	5.5	48	SF	3	E			42		F
	HOLL	08	2020	2022	2056	S18	W43	9767	01	5.6	36	SF	3	E			30		F
0098	HOLL	08	2207	2223	2234	N14	E11	9773	01	9.7	27	SF	3	E			36		FH

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0099		08	2253	2256	2311	N14	E07	9773	01	9.5	18	SF					61		F
	HOLL	08	2253	2256	2315	N13	E06	9773	01	9.4	22	SF		3	E		77		F
	LEAR	08	2255E	2255U	2307	N14	E08	9773	01	9.5	12D	SF		2	E		45		F
0100	HOLL	08	2325	2338	2349	N14	E12	9773	01	9.9	24	SF		3	E		28		F
0101	LEAR	09	0043	0051	0101	N15	E08	9773	01	9.6	18	SF		1	E		30		F
0102	LEAR	09	0051	0054	0057	S19	W45	9767	01	5.6	6	SF		1	E		21		F
0103		09	03011	03021	0306	N14	E04	9773	01	9.4	5	SN					41	0.7	DF
	MITK	09	0301	0302	0304	N14	E04	9773	01	9.4	3	SN			C	0302	66	0.7	D
	LEAR	09	0302	0303	0308	N14	E05	9773	01	9.5	6	SF		2	E		16		F
0104	MITK	09	0304	0314	0319	N13	E03	9773	01	9.3	15	1B			C	0314	75	3.0	E
0105	MITK	09	0335	0356	0419	N03	E03		01	9.4	44	SN			C	0335	158	1.7	,EH
0106	LEAR	09	0401	0407	0418	S20	W45	9767	01	5.7	17	SF		1	E		39		F
0107	MITK	09	0421	0423	0431	N14	E02	9773	01	9.3	10	SN			C	0423	98	1.1	D
0108	MITK	09	0445	0446	0450	N13	E02	9773	01	9.3	5	SN			C	0446	72	0.8	D
0109	MITK	09	0512	0515	0521	N13	E03	9773	01	9.4	9	SN			C	0515	72	0.8	D
0110	LEAR	09	0546	0547	0553	S14	E67	9778	01	14.3	7	SF		2	E		43		F
0111	MITK	09	0541	0542	0547	N13	E01	9773	01	9.3	6	SN			C	0542	158	1.7	D
0112	MITK	09	0548	0549	0557	N14	E03	9773	01	9.5	9	SN			C	0549	112	1.2	D
0113	MITK	09	0600	0603	0606	N14	E02	9773	01	9.4	6	SN			C	0603	118	1.3	D
0114	LEAR	09	0630	0633	0636	N14	E03	9773	01	9.5	6	SF		1	E		24		F
0115	LEAR	09	0638	0640	0657	N14	E04	9773	01	9.6	19	SF		2	E		59		F
0116	LEAR	09	0646	0649	0657	S14	E66	9778	01	14.3	11	SF		2	E		51		
0117	LEAR	09	0744	0752	0758	N13	E00	9773	01	9.3	14	SF		2	E		52		F
0118	LEAR	09	0805	0809	0812	N32	E57	9779	01	13.8	7	SF		1	E		20		FH
0119	LEAR	09	0817	0818	0822	S13	E65	9778	01	14.2	5	SF		1	E		73		F
0120	LEAR	09	0848	0848	0854	S16	W54	9767	01	5.3	6	SF		1	E		23		F
0121	KANZ	09	0848	0849	0854	S17	W52	9767	01	5.4	6	SF		2	E				
0122	KANZ	09	0950	0954	0958	N13	W02	9773	01	9.2	8	SF		2	E				
0123	KANZ	09	1050	1053	1059	N13	W02	9773	01	9.3	9	SN		2	E				
0124	KANZ	09	1105	1146U	1212	N13	W02	9773	01	9.3	67	1N		2	E				
0125	RAMY	09	1115E	1147	1214	N13	E08	9773	01	10.1	59D	1F		3	E		132		F
0126	RAMY	09	1251	1305	1310	N13	W01	9773	01	9.4	19	SF		3	E		13		
0127	RAMY	09	1744	1800	1900	N13	W02	9773	01	9.6	76	2B		3	E		472		FU
		09	1945		1949	No Flare Patrol													
0128	RAMY	09	1958	1959	2004	S19	E72	9778	01	15.3	6	SF		3	E		70		H
		09	2037		2041	No Flare Patrol													
		09	2055		2101	No Flare Patrol													
		09	2105		2115	No Flare Patrol													
		09	2145		2230	No Flare Patrol													

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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)	
0129	LEAR	09	2321	2321	2323	N15	W10	9773	01	9.2	2	SF		2	E		42		F
0130	LEAR	10	0251	0253	0316	S17	W66	9771	01	5.1	25	SF		2	E		36		F
0131	LEAR	10	0255	0256	0304	S24	W56	9767	01	5.8	9	SF		2	E		32		F
0132	LEAR	10	0305	0307	0312	S24	W56	9767	01	5.8	7	SF		2	E		21		F
0133	LEAR	10	0451	0455	0504	S04	E08	9775	01	10.8	13	SF		2	E		17		F
0134	LEAR	10	0738	0756	0830	N13	W10	9773	01	9.6	52	SF		2	E		35		F
0135	LEAR	10	0846	0851	0857	S15	E57	9778	01	14.7	11	SF		2	E		15		
0136	SVTO	10	0858E	0858U	0923	N13	W42	9773	01	7.2	25D	SF		2	E		60		
0137	LEAR	10	0938	0946	1004	N14	W09	9773	01	9.7	26	SF		2	E		23		F
0138	SVTO	10	1030E	1034U	1102	N14	W12	9773	01	9.5	32D	SF		3	E		18		F
0139	RAMY	10	1154	1156	1205	S20	W64	9767	01	5.6	11	SF		3	E		18		F
0140	RAMY	10	1419	1419	1423	N14	W10	9773	01	9.8	4	SF		3	E		11		F
0141		10	1511*	1516*	1542	N14	W12	9773	01	9.7	31	SF					48		F
	HOLL	10	1511	1516	1545	N14	W13	9773	01	9.6	34	SF		3	E		67		F
	RAMY	10	1529	1530	1540	N14	W10	9773	01	9.9	11	SF		3	E		29		F
0142	HOLL	10	1511	1516	1524	S15	E49	9778	01	14.3	13	SF		3	E		13		
0143	RAMY	10	1605	1606	1621	N14	W16	9773	01	9.5	16	SF		3	E		14		F
0144	HOLL	10	1855	1856	1900	S15	E48	9778	01	14.4	5	SF		3	E		10		
0145	RAMY	10	1921	1925	1933	S17	E47	9778	01	14.4	12	SF		3	E		21		FH
0146	RAMY	10	2004	2005	2009	N14	W19	9773	01	9.4	5	SF		3	E		27		
0147	RAMY	10	2016	2025	2044	N14	W19	9773	01	9.4	28	SF		3	E		45		F
0148		10	2348*	2353	2412	N10	W22	9773	01	9.3	24	SN					90	1.9	,BE
	LEAR	10	2348	2353	2409	N11	W23	9773	01	9.3	21	SF		2	E		17		
	MITK	10	2359	2401	2416	N10	W22	9773	01	9.3	17	SN			C	2401	163	1.9	B,E
0149	MITK	11	0532	0534	0535	N13	W23	9773	01	9.5	3	SN			C	0534	59	0.7	B
0150	LEAR	11	0650	0653	0658	S06	W08	9775	01	10.7	8	SF		3	E		12		
0151	LEAR	11	0755	0800	0809	N30	E36	9779	01	14.2	14	SF		3	E		96		F
0152	LEAR	11	0757	0801	0816	S19	W79	9767	01	5.3	19	SF		3	E		51		
0153		11	0918	0918	0930	N12	W26	9773	01	9.4	12	SF					13		
	LEAR	11	0918	0918	0931	N12	W26	9773	01	9.4	13	SF		2	E		13		
	KANZ	11	0918	0919	0929	N12	W25	9773	01	9.5	11	SF		2	E				
0154		11	0945	0947	0952	N30	E34	9779	01	14.1	7	SF					19		
	LEAR	11	0945	0947	0952	N31	E35	9779	01	14.2	7	SF		2	E		19		
	KANZ	11	0947	0948	0951	N30	E34	9779	01	14.1	4	SF		2	E				
0155		11	0949	0953	0958	N15	W20	9773	01	9.9	9	SF					12		
	KANZ	11	0949	0953	0959	N15	W20	9773	01	9.9	10	SF		2	E				
	LEAR	11	0954	0957	0958	N15	W21	9773	01	9.8	4	SF		2	E		12		
0156	RAMY	11	1224	1225	1228	N13	W28	9773	01	9.4	4	SF		3	E		28		F
0157		11	1224*	1236	1245	N12	W28	9773	01	9.4	21	SF					30		F
	KANZ	11	1224	1236	1245	N12	W28	9773	01	9.4	21	SF		2	E				
	RAMY	11	1234	1236	1245	N13	W27	9773	01	9.5	11	SF		3	E		30		F

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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)	
0158		11	13201	13271	1340	N16	W22	9773	01	9.9	20	SF					20		
	KANZ	11	1320	1327	1339	N16	W23	9773	01	9.8	19	SF		2	E				
	RAMY	11	1321	1328	1340	N17	W22	9773	01	9.9	19	SF		3	E			20	
0159		11	1333	13331	1341	S04	W10	9775	01	10.8	8	SF						12	
	KANZ	11	1333	1333	1340	S04	W11	9775	01	10.7	7	SF		2	E				
	RAMY	11	1333	1334	1342	S04	W09	9775	01	10.9	9	SF		3	E			12	
0160		11	1847	18482	1854	S06	W16	9775	01	10.6	7	SF						20	
	RAMY	11	1847	1848	1855	S06	W16	9775	01	10.6	8	SF		3	E			24	
	HOLL	11	1847	1850	1853	S05	W16	9775	01	10.6	6	SF		3	E			15	
0161	HOLL	11	1958	2007	2019	N16	W27	9773	01	9.8	21	SF		3	E			34	F
0162	HOLL	11	2049	2053	2100	S05	W15	9775	01	10.7	11	SF		3	E			14	F
0163	LEAR	12	0110	0112	0131	N12	W33	9773	01	9.6	21	SF		2	E			29	F
0164	LEAR	12	0311	0311	0317	N11	E78	9782	01	18.0	6	SF		3	E			20	F
0165	LEAR	12	0318	0318	0320	N11	E77	9782	01	17.9	2	SF		3	E			20	
0166		12	03131	03185	0344	S06	W19	9775	01	10.7	31	1N					162	3.0	,FH
	LEAR	12	0313	0318	0345	S07	W19	9775	01	10.7	32	SF		3	E		48		F
	MITK	12	0314	0323	0344	S06	W19	9775	01	10.7	30	1B			C	0323	276	3.0	F,H
0167	LEAR	12	0738	0744	0758	S06	W21	9775	01	10.7	20	SF		3	E			45	F
0168		12	08391	0840	0844	N15	W37	9773	01	9.5	5	SF						24	F
	LEAR	12	0839	0840	0844	N15	W38	9773	01	9.5	5	SF		2	E			24	F
	KANZ	12	0840	0840	0845	N15	W36	9773	01	9.6	5	SF		1	E				
0169		12	0856	08561	0920	N12	W41	9773	01	9.3	24	1F						93	FH
	LEAR	12	0856	0856	0928	N11	W41	9773	01	9.3	32	1F		2	E			126	FH
	KANZ	12	0856	0857	0910	N11	W40	9773	01	9.4	14	1F		2	E				
	SVTO	12	0858E	0858U	0923	N13	W42	9773	01	9.2	25D	SF		2	E			60	
0170	KANZ	12	1109	1109	1110	N13	W37	9773	01	9.7	1	SF		2	E				
0171	KANZ	12	1204	1206	1209	S07	W29	9775	01	10.3	5	SF		2	E				
0172	KANZ	12	1215	1219	1227	N14	W34	9773	01	9.9	12	SF		2	E				
0173		12	15062	15176	1600	S06	W25	9775	01	10.7	54	1N						128	F
	RAMY	12	1506	1517	1606	S05	W26	9775	01	10.7	60	1N		3	E			134	F
	HOLL	12	1508	1523	1554	S06	W24	9775	01	10.8	46	1F		3	E			121	F
0174		12	15401	1543	1549	N17	W40	9773	01	9.6	9	SF						34	F
	RAMY	12	1540	1543	1553	N18	W40	9773	01	9.6	13	SF		3	E			35	
	HOLL	12	1541	1543	1545	N16	W41	9773	01	9.5	4	SF		3	E			34	F
0175		12	17451	1748	1752	N17	W37	9773	01	9.9	7	SF						22	
	RAMY	12	1745	1748	1754	N18	W37	9773	01	9.9	9	SF		3	E			29	
	HOLL	12	1746	1748	1751	N16	W37	9773	01	9.9	5	SF		3	E			15	
0176	RAMY	12	1755	1757	1801	S05	W28	9775	01	10.6	6	SF		3	E			17	
0177		12	1918	1918	1932	N18	W35	9773	01	10.1	14	SF						30	
	HOLL	12	1918	1918	1925	N18	W35	9773	01	10.1	7	SF		3	E			27	
	RAMY	12	1918	1918	1938	N19	W35	9773	01	10.1	20	SF		3	E			32	
0178	HOLL	12	1926	1927	1943	S07	W34	9775	01	10.3	17	SN		3	E			73	F
0179		12	19282	19282	1936	S10	W40	9772	01	9.8	8	SF						23	F
	RAMY	12	1928	1928	1939	S08	W42	9772	01	9.7	11	SF		3	E			33	
	HOLL	12	1930	1930	1934	S11	W39	9772	01	9.9	4	SF		3	E			13	F
0180	LEAR	13	0205	0205	0212	N30	E15	9779	01	14.3	7	SF		3	E			26	F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0181	LEAR	13	0306	0311	0328	N17	W40	9773	01	10.1	22	1N		3	E		218		F
0182	LEAR	13	0350	0351	0359	N06	E54	9782	01	17.2	9	SF		3	E		49		F
0183		13	03582	0401	0404	S14	E16	9778	01	14.4	6	SN					56	0.9	DF
	LEAR	13	0358	0401	0405	S14	E15	9778	01	14.3	7	SF		3	E		32		F
	MITK	13	0400	0401	0402	S15	E16	9778	01	14.4	2	SN			C	0401	79	0.9	D
0184	LEAR	13	0536	0538	0551	N30	E13	9779	01	14.2	15	SF		2	E		70		F
0185	LEAR	13	0734	0735	0738	N09	E52	9782	01	17.2	4	SF		2	E		24		
0186	LEAR	13	0751	0752	0758	N17	W43	9773	01	10.0	7	SF		2	E		29		F
0187		13	1055	1055	1057	N18	W46	9773	01	9.9	2	SF					17		
	KANZ	13	1055	1055	1056	N17	W46	9773	01	9.9	1	SF		2	E				
	SVTO	13	1055	1055	1058	N18	W47	9773	01	9.9	3	SF		3	E		17		
0188		13	1203	12041	1210	N30	E10	9779	01	14.3	7	SF					18		
	KANZ	13	1203	1204	1210	N29	E09	9779	01	14.2	7	SF		2	E				
	SVTO	13	1203	1205	1210	N30	E10	9779	01	14.3	7	SF		3	E		18		
0189		13	13221	1323	1327	S16	E12	9778	01	14.5	5	SF					22		F
	RAMY	13	1322	1323	1329	S16	E12	9778	01	14.5	7	SF		3	E		30		F
	KANZ	13	1323	1323	1326	S15	E12	9778	01	14.5	3	SF		2	E				
	SVTO	13	1323	1323	1327	S16	E13	9778	01	14.5	4	SF		3	E		15		F
0190		13	13163	13165	1339	S06	W45	9775	01	10.2	23	SF					42		F
	KANZ	13	1316	1316	1328	S07	W45	9775	01	10.2	12	SF		2	E				
	RAMY	13	1319	1321	1350	S06	W45	9775	01	10.2	31	SF		3	E		42		F
0191		13	1337	13371	1342	S06	W44	9775	01	10.3	5	SF					41		
	KANZ	13	1337	1337	1342	S06	W43	9775	01	10.3	5	SF		2	E				
	SVTO	13	1337	1338	1342	S05	W44	9775	01	10.3	5	SF		3	E		41		
0192	HOLL	13	1534	1536	1539	N17	W50	9773	01	9.8	5	SF		3	E		17		
0193	RAMY	13	1617	1623	1626	N02	E50	9782	01	17.4	9	SF		3	E		53		F
0194	RAMY	13	1617	1623	1626	S02	W41	9775	01	10.6	9	SF		3	E		28		F
0195	HOLL	13	1708	1709	1712	S07	W46	9775	01	10.3	4	SF		3	E		26		
0196		13	17501	1751	1806	N06	E47	9782	01	17.3	16	SF					16		
	HOLL	13	1750	1751	1754	N07	E47	9782	01	17.3	4	SF		3	E		14		
	RAMY	13	1751	1751	1818	N05	E47	9782	01	17.2	27	SF		3	E		19		
0197	HOLL	13	1805	1818	1827	N02	E50	9782	01	17.5	22	SF		3	E		38		F
0198	RAMY	13	1821	1824	1859	N00	E46	9782	01	17.2	38	SF		3	E		68		F
0199		13	1942	1946	1953	S06	W46	9775	01	10.4	11	1N					113		FH
	HOLL	13	1942	1946	1953	S07	W48	9775	01	10.2	11	SF		3	E		94		FH
	RAMY	13	1944E	1945U	1953D	S05	W44	9775	01	10.5	9D	1N		3	E		132		
0200	HOLL	13	2002	2003	2010	N04	E48	9782	01	17.4	8	SF		3	E		14		
0201	HOLL	13	2002	2004	2016	S07	W49	9775	01	10.2	14	SF		3	E		10		
0202		13	2340	23401	2346	S15	E05	9778	01	14.4	6	SF					24		F
	LEAR	13	2340	2340	2343	S15	E06	9778	01	14.4	3	SF		3	E		25		F
	HOLL	13	2340	2341	2348	S15	E04	9778	01	14.3	8	SF		3	E		24		F
0203	LEAR	14	0123	0124	0135	N05	E44	9782	01	17.3	12	SF		3	E		20		F
0204		14	01263	0147	0156	S07	W52	9775	01	10.2	30	1N					136	3.9	F
	LEAR	14	0126	0145U	0155	S07	W52	9775	01	10.2	29	SF		3	E		37		F
	MITK	14	0129	0147	0156	S07	W52	9775	01	10.2	27	1B			C	0147	236	3.9	



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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Obs See	Type	Area Measurement		Remarks	
						Region	Class						Time (UT)	Corr (Sq Deg)		
0229	RAMY	16	1226	1237	1244	S06	W82	9775	01	10.4	18	SF	3	E	34	F
			16 1407		1413	No Flare Patrol										
			16 1415		1422	No Flare Patrol										
			16 1436		1507	No Flare Patrol										
0230		16	15257	1527	1539	S06	W84	9775	01	10.3	14	SF			60	
	RAMY	16	1525	1527	1545D	S05	W83	9775	01	10.4	20D	SF	3	E	26	
	HOLL	16	1532	1532U	1539	S06	W85	9775	01	10.3	7	SF	1	E	93	
0231		16	16501	1655	1710	S08	W88	9775	01	10.1	20	SF			95	F
	RAMY	16	1650	1655	1712	S07	W88	9775	01	10.1	22	SF	3	E	92	F
	HOLL	16	1651	1655	1709	S08	W89	9775	01	10.0	18	SF	3	E	98	F
0232	HOLL	16	1753	1756	1816	N15	W89	9773	01	10.0	23	SN	3	E	78	
0233	RAMY	16	1804	1804	1817	N15	W89	9773	01	10.0	13	SF	3	E	46	
0234	RAMY	16	1929	1929	1938	S06	W88	9775	01	10.2	9	SF	3	E	27	
0235	RAMY	16	2005	2005	2028	N14	W79	9773	01	10.9	23	SF	3	E	71	H
			16 2012		2025	No Flare Patrol										
0236	RAMY	16	2046	2047	2050	S05	W86	9775	01	10.4	4	SF	3	E	26	H
			16 2203		2213	No Flare Patrol										
0237	HOLL	16	2238	2239	2243	S05	W88	9775	01	10.4	5	SF	3	E	16	
			16 2253		2258	No Flare Patrol										
0238	LEAR	17	0215	0219	0224	S08	W90	9775	01	10.3	9	SF	3	E	77	FH
0239	LEAR	17	0309	0311	0319	S09	W78	9775	01	11.3	10	SF	3	E	73	FH
0240		17	12091	12132	1228	S10	E22	9783	01	19.1	19	SF			35	F
	KANZ	17	1209	1213	1227	S10	E22	9783	01	19.1	18	SF	2	E		
	RAMY	17	1210	1215	1228	S11	E23	9783	01	19.2	18	SF	3	E	35	F
			18 0020		0046	No Flare Patrol										
0241		18	1156	11562	1208	N18	E24	9789	01	20.3	12	SF			21	F
	SVTO	18	1156	1156	1210	N18	E24	9789	01	20.3	14	SF	3	E	21	F
	KANZ	18	1156	1158	1207	N17	E24	9789	01	20.3	11	SF	2	E		
			18 2102		2111	No Flare Patrol										
			18 2139		2243	No Flare Patrol										
0242	LEAR	19	0052	0053	0059	S08	E71	9787	01	24.3	7	SF	3	E	16	F
0243	LEAR	19	1004	1005	1011	S08	E64	9787	01	24.2	7	SF	2	E	52	
			19 1027		1054	No Flare Patrol										
0244	RAMY	19	2008	2008	2012	N15	E42	9788	01	23.0	4	SF	3	E	18	F
			19 2158		2243	No Flare Patrol										
0245	LEAR	20	0256	0301	0306	S08	E55	9787	01	24.2	10	SF	2	E	25	F
0246	LEAR	20	0457	0459	0511	N16	E37	9788	01	23.0	14	SF	3	E	13	F
0247	LEAR	20	0638	0642	0647	S07	E52	9787	01	24.2	9	SF	3	E	16	
0248	LEAR	20	0652	0655	0706	S07	E51	9787	01	24.1	14	SF	3	E	27	
0249	KANZ	20	1114	1114	1118	S14	E39	9793	01	23.4	4	SF	2	E		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks				
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)					
0250	HOLL	20	1603	1608	1610	N18	E34	9788	01	23.2	7	SF		3	E		12		F				
0251	HOLL	20	1624	1625	1638	S09	E46	9787	01	24.1	14	SF		3	E		20						
0252		20	2310	2312*	2337	N18	E28	9788	01	23.1	27	SF					43		F				
	HOLL	20	2310	2312	2337	N18	E27	9788	01	23.0	27	SF		3	E		27						
	LEAR	20	2310	2323	2337	N18	E28	9788	01	23.1	27	SF		3	E		59		F				
0253	LEAR	21	0136	0137	0153	N18	E25	9788	01	23.0	17	SF		3	E		30		F				
0254	LEAR	21	0324	0328	0350	N18	E25	9788	01	23.0	26	SF		3	E		79		F				
0255	LEAR	21	0537	0539	0542	N07	W45	9785	01	17.9	5	SF		3	E		13						
0256	LEAR	21	0743	0744	0755	N15	W20	9789	01	19.8	12	SF		3	E		12						
0257	HOLL	21	1818	1818	1822	S03	W28	9791	01	19.7	4	SF		3	E		16						
0258	HOLL	21	2237	2242	2245	S02	W30	9791	01	19.7	8	SF		3	E		18						
																				22	0410	0441	No Flare Patrol
																				22	0454	0509	No Flare Patrol
0259	KANZ	22	0749E	0750U	0815	S13	E16	9793	01	23.5	26D	SF		2	E								
0260		22	08542	08571	0908	S02	W37	9791	01	19.6	14	SF					104		EF				
	KANZ	22	0854	0858	0907	S02	W36	9791	01	19.7	13	SF		2	E								
	LEAR	22	0855	0858	0910	S02	W37	9791	01	19.6	15	1N		3	E		146		FE				
	SVTO	22	0856	0857	0908	S02	W37	9791	01	19.6	12	SF		3	E		63		F				
0261	LEAR	22	0914	0914	0921	S09	E22	9787	01	24.0	7	SF		3	E		13						
0262		22	1311	13133	1322	N17	W34	9789	01	20.0	11	SF					51						
	KANZ	22	1311	1313	1322	N17	W35	9789	01	19.9	11	SF		2	E								
	SVTO	22	1311	1316	1323	N17	W32	9789	01	20.1	12	SF		3	E		51						
0263	KANZ	22	1422	1424	1435	S03	W39	9791	01	19.7	13	SF		2	E								
0264	HOLL	22	1639	1639	1645	S16	E10	9793	01	23.4	6	SF		3	E		24		FH				
0265	HOLL	22	1824	1826	1831	N13	E40	9794	01	25.8	7	SF		3	E		12		F				
0266	RAMY	22	2131	2131	2132D	N17	W36	9789	01	20.2	1D	SF		3	E		77		F				
0267	HOLL	22	2207	2211	2218	S24	E68	9799	01	28.2	11	SF		3	E		16		F				
0268	HOLL	22	2241	2242	2249	N12	E36	9794	01	25.6	8	SF		3	E		20		F				
0269	RAMY	22	2311	2311	2311D	N17	W36	9789	01	20.2	8D	SF		3	E		77		F				
0270	HOLL	22	2330	2333	2337	S05	E21	9787	01	24.5	7	SF		3	E		14		F				
0271	LEAR	23	0335	0336	0340	N11	E34	9794	01	25.7	5	SF		3	E		12						
0272		23	0906	0907	0922	S06	E08	9787	01	24.0	16	SF					33		FH				
	KANZ	23	0906	0907	0922	S05	E08	9787	01	24.0	16	SF		2	E								
	LEAR	23	0906	0907	0922	S06	E09	9787	01	24.0	16	SF		3	E		33		FH				
0273		23	09571	09591	1002	S09	W56	9783	01	19.2	5	SF					20						
	KANZ	23	0957	1000	1002	S09	W56	9783	01	19.2	5	SF		2	E								
	SVTO	23	0958	0959	1002	S09	W57	9783	01	19.1	4	SF		3	E		20						
0274		23	1334	1336	1358	N12	E28	9794	01	25.7	24	SF					72		F				
	SVTO	23	1334	1336	1357	N12	E29	9794	01	25.7	23	SF		3	E		72		F				
	KANZ	23	1334	1336	1400	N12	E28	9794	01	25.7	26	SF		2	E								
		23	1420		1423			No Flare Patrol															
0275	HOLL	23	2227	2228	2235	S08	E01	9787	01	24.0	8	SF		3	E		17						



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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0276		24	0509	0509	0514	S09	W02	9787	01	24.1	5	SN					30	0.5	H
	MITK	24	0509	0509	0510	S09	W02	9787	01	24.1	1	SN			C	0509	46	0.5	H
	LEAR	24	0509	0510	0517	S09	W02	9787	01	24.1	8	SF		3	E		14		
0277	LEAR	24	0608	0608	0634	N13	E21	9794	01	25.8	26	SF		3	E		17		F
0278	MITK	24	0610	0612	0616	N13	E20	9794	01	25.8	6	SN			C	0612	46	0.5	E
		24	0805		0832	No Flare Patrol													
		24	1029		1302	No Flare Patrol													
		24	1311		1323	No Flare Patrol													
		24	1339		1411	No Flare Patrol													
		24	1505		1605	No Flare Patrol													
		24	1634		1713	No Flare Patrol													
		24	1725		1735	No Flare Patrol													
		24	1819		1925	No Flare Patrol													
		24	2013		2048	No Flare Patrol													
0279	HOLL	24	2049	2050	2054	S11	W10	9787	01	24.1	5	SF		3	E		18		F
0280	LEAR	25	0217	0224	0307	N13	E10	9794	01	25.8	50	SN		3	E		85		EF
0281	KANZ	25	1132	1134	1141	S08	W19	9787	01	24.0	9	SF		2	E				
0282	RAMY	25	1735	1736	1742	N12	E00	9794	01	25.7	7	SF		3	E		14		F
0283	HOLL	25	2348	2349	2351	N07	E62	9800	01	30.6	3	SF		3	E		28		
		26	0019		0128	No Flare Patrol													
		26	0130		0629	No Flare Patrol													
0284		26	1235	1237	1257	N06	E56	9800	01	30.7	22	SF					20		F
	RAMY	26	1235	1237	1300	N06	E57	9800	01	30.8	25	SF		3	E		20		F
	KANZ	26	1237E	1237U	1254	N07	E55	9800	01	30.6	17D	SF		2	E				
0285	SVTO	26	1236	1250	1300	N03	E56	9800	01	30.7	24	SF		3	E		28		F
0286	SVTO	26	1254	1300	1313	N15	W49	9788	01	22.8	19	SF		3	E		21		
0287		26	1351	1351	1359	N18	W49	9788	01	22.8	8	SF					18		F
	SVTO	26	1351	1351	1358	N16	W49	9788	01	22.9	7	SF		3	E		26		
	RAMY	26	1351	1352	1403	N19	W49	9788	01	22.8	12	SF		3	E		10		F
	KANZ	26	1352	1353	1357	N18	W49	9788	01	22.8	5	SF		2	E				
0288	HOLL	26	1947	1947	1950	S15	E78	9802	02	1.7	3	SF		3	E		17		F
0289	RAMY	26	2101	2105	2115	N20	W55	9788	01	22.7	14	SF		3	E		12		
0290	HOLL	26	2225	2226	2234	N19	W57	9788	01	22.6	9	SF		3	E		30		F
		27	0000		0001	No Flare Patrol													
		27	0003		0150	No Flare Patrol													
		27	0157		0356	No Flare Patrol													
		27	0632		0704	No Flare Patrol													
0291		27	1214	1214	1218	N18	W62	9788	01	22.8	4	SF					55		
	RAMY	27	1214	1214	1218	N18	W62	9788	01	22.8	4	SF		3	E		51		
	SVTO	27	1214	1214	1219	N18	W63	9788	01	22.7	5	SF		3	E		59		
0292	RAMY	27	1720	1722	1731	S07	W48	9787	01	24.1	11	SF		3	E		28		F
0293	RAMY	27	2033	2033	2036	S17	E61	9802	02	1.5	3	SF		3	E		18		
		27	2152		2225	No Flare Patrol													
		28	0000		0000	No Flare Patrol													
0294	LEAR	28	0305	0309	0313	N19	W71	9788	01	22.7	8	SF		2	E		29		F
		28	0633		0654	No Flare Patrol													



H $\alpha$  SOLAR FLARES

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0313		31	1010	1012	1019	S16	E18	9802	02	1.8	9	SF					27		F
	LEAR	31	1010	1012	1019	S16	E18	9802	02	1.8	9	SF	3	E			27		F
	KANZ	31	1010	1013	1019	S15	E17	9802	02	1.7	9	SF	1	E					
0314	KANZ	31	1155	1159	1208	N06	W16	9800	01	30.3	13	SF	2	E					
0315	RAMY	31	1200	1203	1211	S02	W55	9798	01	27.4	11	SF	3	E			14		F
0316	RAMY	31	1414	1416	1430	N06	W14	9800	01	30.5	16	SF	3	E			22		F
0317	RAMY	31	1533	1535	1541	S15	E12	9802	02	1.5	8	SF	3	E			13		
0318		31	1640	1643	1704	N06	W14	9800	01	30.6	24	1F					104		F
	RAMY	31	1640	1643	1706	N06	W14	9800	01	30.6	26	SF	3	E			91		F
	HOLL	31	1646E	1649U	1703	N05	W15	9800	01	30.6	17D	1F	3	E			116		F

"Remarks"

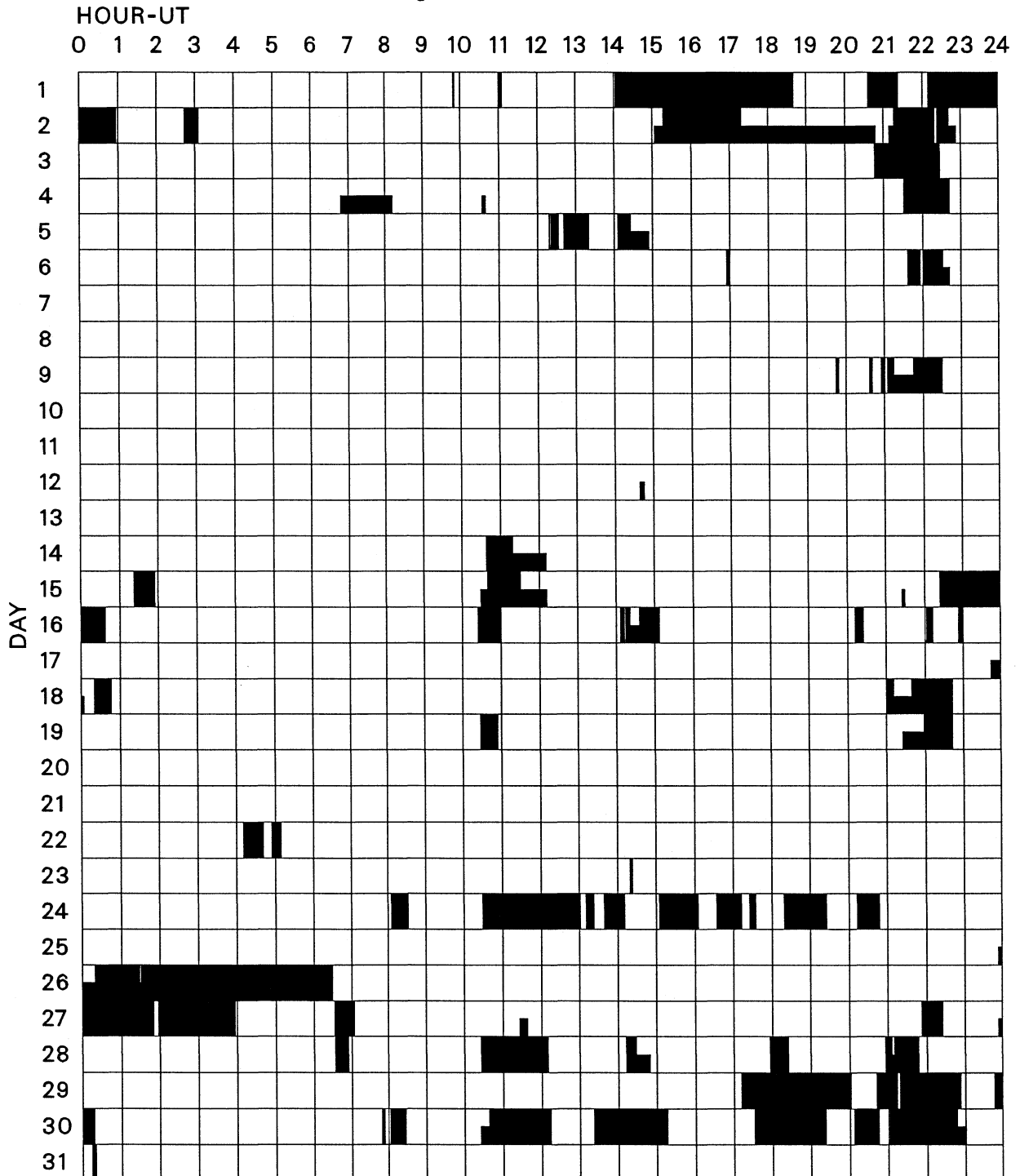
- |   |   |
|---|---|
| <p>A = Eruptive prominence whose base is less than 90 degrees from central meridian.<br/>         B = Probably the end of a more important flare.<br/>         C = Invisible 10 minutes before.<br/>         D = Brilliant point.<br/>         E = Two or more brilliant points.<br/>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

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

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## INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

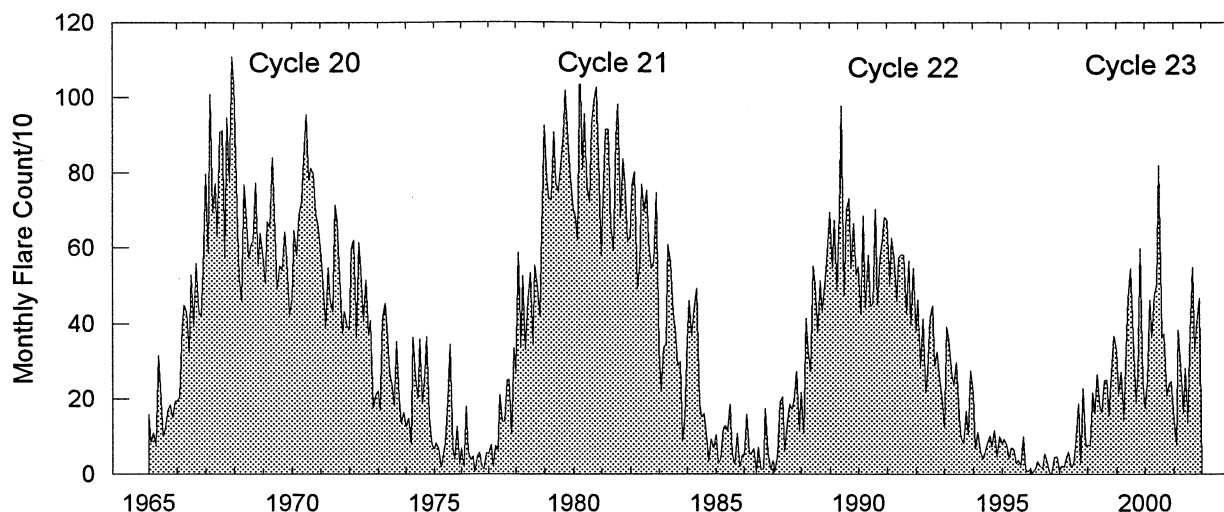
### JANUARY 2002



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

Holloman                      Learmonth                      Ramey                      San Vito  
 Mitaka                      Kanzelhoehe

# Monthly Counts of Grouped Solar Flares Jan 1965 - Jan 2002



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												318

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

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Outstanding Occurrences

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m	Mean 2 Hz)		
01	235	CUBA	44	NS	1310.0E		520.0D		7.0	
			44	NS	1310.0E		520.0D		16.0	
	2840	PEKG	8	S	0532.0	0532.0	1.0	35.0		0
			5	S	0533.0	0535.6	8.0	27.6		
			3	S	0609.0	0623.8	43.0	89.0		
	2840	PEKG	1	S	0756.0	0759.2	8.0	7.4		
			8	S	1018.0	1018.0		U	170.0	QL=4 ST=2 TYP=3
	410	LEAR	8	S	1018.0	1018.0		U	100.0	QL=4 ST=2 TYP=3
	410	SVTO	8	S	1209.0	1209.0	1.0	72.0		QL=4 ST=2 TYP=3
02	235	CUBA	44	NS	1400.0E		470.0D		6.0	
			44	NS	1400.0E		470.0D		17.0	
	245	LEAR	8	S	0322.0	0323.0	1.0	47.0		QL=4 ST=2 TYP=3
	200	HIRA	8	S	0323.0	0323.0	1.0	60.0		0
	4995	LEAR	48	C	0621.0	0623.0	8.0	55.0		QL=4 ST=2 TYP=8
	2695	LEAR	48	C	0621.0	0623.0	23.0	66.0		QL=4 ST=2 TYP=8
	8800	LEAR	8	S	0758.0	0759.0	1.0	25.0		QL=4 ST=2 TYP=3
	204	IZMI	7	C	0917.9	0917.9	0.1	16.0		
	3000	IZMI	7	C	1006.2	1006.5	0.4	11.0	6.0	
	3000	IZMI	7	C	1113.8	1114.2	2.1	25.0	6.0	
	204	IZMI	41	F	1129.8	1129.9	0.5	54.0		
	204	IZMI	7	C	1130.3	1131.0	1.1	12.0		
	2695	SGMR	8	S	1250.0	1250.0	1.0	21.0		QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1250.0	1250.0	5.0	61.0		QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1250.0	1250.0	2.0	33.0		QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1250.0	1250.0	1.0	30.0		QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1250.0	1250.0	8.0	56.0		QL=4 ST=2 TYP=3
	410	SGMR	8	S	1455.0	1455.0		U	56.0	QL=4 ST=2 TYP=3
	410	SVTO	8	S	1455.0	1455.0		U	100.0	QL=4 ST=2 TYP=3
	610	SGMR	8	S	1504.0	1504.0		U	24.0	QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1504.0	1504.0		U	52.0	QL=4 ST=2 TYP=3
	610	SVTO	8	S	1504.0	1504.0		U	23.0	QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1504.0	1504.0		U	33.0	QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1504.0	1504.0		U	53.0	QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1504.0	1504.0		U	39.0	QL=4 ST=2 TYP=3
	245	SGMR	8	S	1638.0	1638.0		U	24.0	QL=4 ST=2 TYP=3
	410	SGMR	8	S	1638.0	1638.0		U	85.0	QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1638.0	1638.0		U	22.0	QL=4 ST=2 TYP=3
	610	PALE	8	S	1752.0	1752.0	1.0	180.0		QL=4 ST=2 TYP=3
	610	SGMR	8	S	1752.0	1753.0	1.0	88.0		QL=4 ST=2 TYP=3
	610	PALE	8	S	2145.0	2145.0	1.0	45.0		QL=4 ST=2 TYP=3
	1415	PALE	8	S	2145.0	2145.0	1.0	61.0		QL=4 ST=2 TYP=3
	2695	PALE	8	S	2145.0	2145.0	1.0	120.0		QL=4 ST=2 TYP=3
4995	PALE	8	S	2145.0	2145.0	1.0	110.0		QL=4 ST=2 TYP=3	
8800	PALE	8	S	2145.0	2145.0	1.0	90.0		QL=4 ST=2 TYP=3	
245	PALE	8	S	2148.0	2148.0		U	260.0	QL=4 ST=2 TYP=3	
03	127	TORN	44	NS	0740.0E		300.0D			V=1
	235	CUBA	44	NS	1305.0E		525.0D		6.0	
	280	CUBA	44	NS	1305.0E		525.0D		18.0	
	200	HIRA	7	C	0021.0	0024.0	3.0	15.0		WR
	2840	PEKG	5	S	0022.0	0024.3	5.0	27.7		
	500	HIRA	7	C	0211.0	0214.0	5.0	340.0		ML
	2840	PEKG	20	GRF	0212.0	0214.4	7.0	6.2		
	610	PALE	8	S	0213.0	0214.0	1.0	160.0		QL=4 ST=2 TYP=3
	610	LEAR	8	S	0214.0	0214.0		U	69.0	QL=4 ST=2 TYP=3
	410	PALE	48	C	0216.0	0216.0	1.0	99.0		QL=4 ST=2 TYP=8
	245	PALE	8	S	0217.0	0217.0		U	33.0	QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0233.0	0235.0	5.0	14.4		
	410	LEAR	8	S	0234.0	0234.0		U	92.0	QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0234.0	0234.0		U	43.0	QL=4 ST=2 TYP=3
	410	PALE	8	S	0234.0	0234.0		U	420.0	QL=4 ST=2 TYP=3
	500	HIRA	8	S	0235.0	0235.0	1.0	85.0		0
	610	LEAR	8	S	0411.0	0412.0	1.0	130.0		QL=4 ST=2 TYP=3
	600	GORK	4	S/F	0715.8	0716.0	0.5	48.0		
	245	LEAR	8	S	1021.0	1021.0		U	230.0	QL=4 ST=2 TYP=3
	410	LEAR	8	S	1021.0	1021.0		U	120.0	QL=4 ST=2 TYP=3
	2800	PENT	1	S	1707.0	1711.0	9.0	11.0		
	610	SGMR	8	S	1711.0	1711.0		U	100.0	QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (W/m <sup>2</sup> Hz)		
03	2800	PENT	29 PBI	2105.0	2113.0	27.0U	5.0			
	200	HIRA	8 S	2342.0	2342.0	1.0	95.0		0	
04	204	IZMI	43 NS	0700.0		300.0D		10.0		
	245	SGMR	43 NS	1250.0	1251.0	31.0	72.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1250.0	1251.0	670.0	72.0			QL=4 ST=1 TYP=1
	235	CUBA	44 NS	1400.0E		470.0D		6.0		
	280	CUBA	44 NS	1400.0E		470.0D		22.0		
	245	LEAR	8 S	0005.0	0006.0	1.0	120.0			QL=2 ST=2 TYP=3
	200	HIRA	8 S	0153.0	0154.0	1.0	35.0			0
	245	LEAR	8 S	0154.0	0154.0	U	53.0			QL=2 ST=2 TYP=3
	200	HIRA	8 S	0327.0	0327.0	1.0	225.0			0
	245	LEAR	8 S	0327.0	0327.0	U	190.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0327.0	0327.0	U	360.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0508.0	0508.0	1.0	40.0			WR
	2840	PEKG	1 S	0510.0	0511.9	4.0	4.9			
	204	IZMI	42 SER	0814.4	0815.2	0.9	15.0			
	600	GORK	40 F	0815.4	0820.4	5.5	16.0			
	204	IZMI	42 SER	0827.7	0827.8	0.3	63.0			
	204	IZMI	42 SER	0927.6	0936.9	12.7	72.0			
	204	IZMI	41 F	0942.8	0942.9	0.3	49.0			
	235	CUBA	7 C	1651.8	1652.2	1.7	64.0	32.0		
	280	CUBA	7 C	1651.8	1652.2	1.7	35.0U	17.0		
245	SGMR	8 S	1655.0	1655.0	U	120.0			QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	1855.0	1900.0	32.0	12.0				
2800	PENT	41 F	2031.0	2039.0	14.0	12.0				
2800	PENT	24 R	2116.0	2126.0	16.0U	11.0				
05	235	CUBA	44 NS	1300.0E		530.0D		5.0		
	280	CUBA	44 NS	1300.0E		530.0D		16.0		
	2840	PEKG	1 S	0057.0	0059.9	6.0	6.4			
	2840	PEKG	5 S	0250.0	0251.6	5.0	14.2			
	2840	PEKG	1 S	0303.0	0305.6	5.0	4.7			
	200	HIRA	8 S	0305.0	0305.0	1.0	30.0			0
	200	HIRA	8 S	0316.0	0316.0	1.0	40.0			WR
	2840	PEKG	5 S	0705.0	0708.0	6.0	11.3			
	600	GORK	4 S/F	0719.0	0719.1	0.6	50.0			
	245	SVTO	8 S	1018.0	1018.0	U	94.0			QL=4 ST=2 TYP=3
	3000	IZMI	22 GRF	1023.9	1040.1	27.9	20.0	10.0		
	245	SVTO	8 S	1044.0	1044.0	U	55.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1704.0	1708.0	9.0	20.0			
	2800	PENT	20 GRF	1833.0	1840.0	17.0	9.0			
245	PALE	49 GB	2148.0	2150.0	4.0	9800.0			QL=4 ST=2 TYP=6	
06	245	LEAR	8 S	0042.0	0042.0	1.0	86.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0042.0	0042.0	1.0	21.0			QL=2 ST=2 TYP=3
	200	HIRA	47 GB	0135.0	0135.0	1.0	1730.0			0
	245	LEAR	49 GB	0135.0	0135.0	U	1100.0			QL=2 ST=2 TYP=6
	127	TORN	4 S/F	0729.6	0730.0	8.0	100.0	50.0		
	204	IZMI	42 SER	0915.8	0916.2	0.4	31.0			
	900	GORK	40 F	0925.4	0927.9	3.3	26.0			
	600	GORK	2 S/F	0928.0	0928.2	0.4	8.0			
	610	SGMR	8 S	1444.0	1444.0	U	63.0			QL=4 ST=2 TYP=3
	07	127	TORN	43 NS	0750.0		370.0		12.0	
245		PALE	48 C	0020.0	0020.0	U	58.0			QL=4 ST=2 TYP=8
245		LEAR	8 S	0023.0	0023.0	1.0	56.0			QL=4 ST=2 TYP=3
2840		PEKG	5 S	0641.0	0644.3	6.0	14.3			
33		UPIC	45 C	1010.0	1011.0	2.0				
204		IZMI	42 SER	1026.5	1026.6	0.4	60.0			
2800		PENT	21 GRF	2045.0	2130.0	47.0U	11.0			
08	127	TORN	44 NS	0730.0E		410.0D		7.0		V=0
	235	CUBA	44 NS	1620.0E		330.0D		4.0		
	280	CUBA	44 NS	1620.0E		330.0D		16.0		
	2840	PEKG	1 S	0048.0	0050.5	5.0	2.3			
	600	GORK	40 F	0717.4	0717.6	0.6	6.2			
	900	GORK	7 C	0717.5	0717.6	0.5	7.1			
	900	GORK	7 C	0717.5	0717.8		5.5			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
08	600	GORK	3 S	0825.3	0825.5	0.4	9.3			
	600	GORK	40 F	0842.5	0842.7	0.5	7.3			
	900	GORK	1 S	0842.5	0842.8	0.5	4.8			
	2800	PENT	29 PBI	1709.0	1719.0	23.0U	31.0			
	235	CUBA	7 C	1725.1	1725.3	1.0	21.0	10.0		
	280	CUBA	7 C	1725.1	1725.3	1.0	15.0U	15.0		
	245	SGMR	8 S	1726.0	1726.0	U	23.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1726.0	1726.0	U	23.0			QL=4 ST=4 TYP=3
2800	PENT	20 GRF	1835.0	1844.0	54.0	13.0				
09	127	TORN	43 NS	0850.0		240.0		7.0		V=0
	280	CUBA	44 NS	1400.0E		470.0D		16.0		
	235	CUBA	44 NS	1500.0E		410.0D		4.0		
	600	GORK	4 S/F	0730.9	0731.2	0.5	30.0			
	600	GORK	40 F	0759.7	0800.6	7.8	12.0			
	610	LEAR	8 S	0817.0	0818.0	1.0	82.0			QL=2 ST=2 TYP=3
	600	GORK	45 C	0817.5	0818.0	1.0	100.0			
	600	GORK	45 C	0817.5	0818.2		150.0U			
	410	LEAR	8 S	0818.0	0818.0	U	24.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0818.0	0818.0	U	28.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0818.0	0818.0	U	85.0			QL=4 ST=2 TYP=3
	900	GORK	3 S	0818.1	0818.2	0.3	17.0			
	900	GORK	42 SER	0858.5	0901.8	3.5	27.0			
	600	GORK	40 F	0933.9	0934.0	1.1	16.0			
	900	GORK	1 S	0943.1	0943.5	0.7	4.6			
	4995	PALE	49 GB	1750.0	1757.0	370.0	570.0			QL=4 ST=1 TYP=6
	1415	SGMR	49 GB	1751.0	1757.0	8.0	630.0			QL=4 ST=2 TYP=6
	4995	SGMR	49 GB	1751.0	1757.0	8.0	560.0			QL=4 ST=2 TYP=6
	8800	SGMR	49 GB	1751.0	1757.0	8.0	820.0			QL=4 ST=2 TYP=6
	4995	SGMR	49 GB	1751.0	1757.0	369.0	580.0			QL=4 ST=1 TYP=6
	4995	SGMR	49 GB	1751.0	1757.0	369.0	590.0			QL=4 ST=1 TYP=6
	8800	SGMR	49 GB	1751.0	1757.0	369.0	800.0			QL=4 ST=1 TYP=6
	8800	SGMR	49 GB	1751.0	1757.0	369.0	820.0			QL=4 ST=1 TYP=6
	2695	SGMR	4 S/F	1752.0	1757.0	7.0	230.0			QL=4 ST=2 TYP=3
	4995	PALE	49 GB	1752.0	1757.0	21.0	570.0			QL=4 ST=2 TYP=6
	8800	PALE	49 GB	1753.0	1757.0	13.0	620.0			QL=4 ST=2 TYP=6
	15400	PALE	48 C	1753.0	1757.0	20.0	330.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	1753.0	1757.0	367.0	330.0			QL=4 ST=1 TYP=8
	8800	PALE	49 GB	1753.0	1757.0	367.0	620.0			QL=4 ST=1 TYP=6
	1415	SGMR	4 S/F	1753.0	1757.0	367.0	610.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	1753.0	1757.0	367.0	250.0			QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1753.0	1757.0	367.0	300.0			QL=4 ST=1 TYP=3
15400	SGMR	4 S/F	1753.0	1757.0	367.0	310.0			QL=4 ST=1 TYP=3	
1415	PALE	49 GB	1754.0	1757.0	5.0	570.0			QL=4 ST=2 TYP=6	
2695	PALE	4 S/F	1754.0	1757.0	6.0	220.0			QL=4 ST=2 TYP=3	
1415	PALE	49 GB	1754.0	1757.0	366.0	570.0			QL=4 ST=1 TYP=6	
2695	PALE	4 S/F	1754.0	1757.0	366.0	220.0			QL=4 ST=1 TYP=3	
15400	SGMR	49 GB	1757.0	1757.0	1.0	620.0			QL=4 ST=2 TYP=6	
245	SGMR	49 GB	1957.0	1957.0	U	570.0			QL=4 ST=2 TYP=6	
410	SGMR	8 S	1957.0	1957.0	U	31.0			QL=4 ST=2 TYP=3	
2800	PENT	1 S	2045.0	2050.0	9.0	3.0				
10	127	TORN	43 NS	1150.0		130.0U		6.0		V=1
	235	CUBA	44 NS	1325.0E		505.0D		4.0		
	280	CUBA	44 NS	1325.0E		505.0D		16.0		
	245	SVTO	8 S	0827.0	0828.0	1.0	110.0			QL=4 ST=2 TYP=3
	600	GORK	45 C	0923.6	0931.0		32.0			
	600	GORK	45 C	0923.6	0927.6	12.4	20.0			
	9100	GORK	20 GRF	0924.3	1010.7	92.7D	38.0			
	2950	GORK	20 GRF	0924.8	1009.5	93.0D	30.0			
	3000	IZMI	22 GRF	0940.6	1009.2	58.3	21.0	8.0		
	900	GORK	46 C	0951.2	0954.6		5.0			
	900	GORK	46 C	0951.2	0951.7	5.5	5.0			
	900	GORK	46 C	0951.2	0953.9		6.0			
	900	GORK	4 S/F	1020.8	1021.9	1.8	58.0			
	410	SVTO	49 GB	1507.0	1509.0	3.0	790.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1508.0	1509.0	2.0	160.0			QL=4 ST=2 TYP=3
410	SGMR	49 GB	1509.0	1509.0	U	530.0			QL=4 ST=2 TYP=6	
245	SGMR	8 S	1509.0	1509.0	U	370.0			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

23  
Jan 02

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean	Int	Remarks	
10	245	SGMR	8 S	1611.0	1611.0	1.0	56.0			QL=4 ST=2 TYP=3	
		SGMR	8 S	1611.0	1611.0	1.0	260.0			QL=4 ST=2 TYP=3	
	410	SGMR	49 GB	1621.0	1621.0	U	500.0			QL=4 ST=2 TYP=6	
		SGMR	8 S	1621.0	1621.0	U	40.0			QL=4 ST=2 TYP=3	
11	127	TORN	44 NS	0830.0E		300.0D		8.0		V=0	
	235	CUBA	44 NS	1400.0E		180.0D		4.0			
		CUBA	44 NS	1400.0E		180.0D		16.0			
	2840	PEKG	3 S	0729.0	0733.9	12.0	11.2				
	2840	PEKG	3 S	0750.0	0757.7	27.0	26.2				
	1415	LEAR	20 GRF	0756.0	0757.0	14.0	27.0				QL=4 ST=2 TYP=2
		LEAR	20 GRF	0757.0	0757.0	13.0	25.0				QL=4 ST=2 TYP=2
	9100	GORK	4 S/F	0856.3	0856.5	0.5	56.0				
	900	GORK	4 S/F	0947.7	0947.8	0.5	32.0				
	900	GORK	40 F	1034.1	1034.8	1.3	25.0				
	900	GORK	3 S	1046.3	1046.4	0.3	10.0				
	410	PALE	8 S	2311.0	2311.0	U	160.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	2313.0	2313.0	U	53.0				QL=4 ST=2 TYP=3
	200	HIRA	8 S	2314.0	2314.0	1.0	15.0				0
	12	235	CUBA	44 NS	1400.0E		470.0D		5.0		
			CUBA	44 NS	1400.0E		470.0D		15.0		
200		HIRA	8 S	0125.0	0127.0	2.0	40.0			0	
2840		PEKG	1 S	0145.0	0149.7	7.0	7.9				
500		HIRA	47 GB	0155.0	0156.0	1.0	1175.0				0
2840		PEKG	20 GRF	0311.0E	0312.6	24.0E	27.3				
15400		SVTO	20 GRF	0712.0	0715.0	5.0	73.0				QL=2 ST=2 TYP=2
15400		SVTO	4 S/F	0712.0	0715.0	5.0	73.0				QL=2 ST=3 TYP=3
2840		PEKG	3 S	0715.0	0719.8	10.0	17.8				
8800		SVTO	4 S/F	0717.0	0719.0	4.0	30.0				QL=4 ST=2 TYP=3
4995		SVTO	8 S	0719.0	0719.0	1.0	29.0				QL=4 ST=2 TYP=3
245		LEAR	8 S	0826.0	0827.0	1.0	170.0				QL=2 ST=2 TYP=3
245		SVTO	8 S	0826.0	0827.0	1.0	140.0				QL=4 ST=2 TYP=3
204		IZMI	7 C	0826.9	0827.0	0.2	17.0				
9100		GORK	2 S/F	0838.5	0839.2	2.0	25.0				
2950		GORK	2 S/F	0838.8	0839.2	2.4	6.5				
2950		GORK	3 S	0854.9	0856.0	4.1	72.0				
3000		IZMI	20 GRF	0855.0	0856.0	4.3	50.0		13.0		
2695		LEAR	8 S	0855.0	0856.0	1.0	62.0				QL=2 ST=2 TYP=3
4995		LEAR	8 S	0855.0	0856.0	1.0	78.0				QL=2 ST=2 TYP=3
2695		SVTO	8 S	0855.0	0856.0	1.0	58.0				QL=4 ST=2 TYP=3
8800		SVTO	8 S	0855.0	0856.0	1.0	60.0				QL=4 ST=2 TYP=3
15400		SVTO	8 S	0855.0	0855.0	1.0	24.0				QL=4 ST=2 TYP=3
4995		SVTO	4 S/F	0855.0	0856.0	3.0	85.0				QL=4 ST=2 TYP=3
9100		GORK	4 S/F	0855.0	0855.9	5.5	42.0				
2950		GORK	29 PBI	0859.0	0859.0	46.0	7.8				
3000		IZMI	40 F	0902.2	0902.9	1.9	6.0		3.0		
245		SVTO	8 S	1135.0	1135.0	U	220.0				QL=4 ST=2 TYP=3
204		IZMI	46 C	1135.1	1135.3	0.5	740.0				
204		IZMI	45 C	1146.9	1147.1	0.5	124.0				
245		SVTO	8 S	1147.0	1147.0	U	270.0				QL=4 ST=2 TYP=3
33		UPIC	45 C	1344.5	1345.5	1.5					
245		SGMR	8 S	1457.0	1457.0	U	71.0				QL=4 ST=2 TYP=3
280		CUBA	7 C	1518.5	1522.5	13.2	41.0		20.0		
235		CUBA	7 C	1518.5	1525.6	13.7	13.0		7.0		
410		SGMR	8 S	1520.0	1522.0	2.0	59.0				QL=4 ST=2 TYP=3
9500	CUBA	2 S/F	1544.6	1547.5	3.1	29.0		14.0			
9500	CUBA	1 S	1559.3	1559.7	0.9	23.0		11.0			
2800	PENT	41 F	1829.0	1927.0	63.0U	38.0					
245	SGMR	8 S	1917.0	1918.0	1.0	97.0				QL=4 ST=2 TYP=3	
9500	CUBA	2 S/F	1925.8	1927.0	2.9	32.0		16.0			
2695	PALE	46 C	1926.0	1927.0	1.0	27.0				QL=4 ST=2 TYP=8	
4995	PALE	46 C	1926.0	1927.0	1.0	36.0				QL=4 ST=2 TYP=8	
410	PALE	49 GB	1926.0	1929.0	3.0	640.0				QL=4 ST=2 TYP=6	
410	SGMR	4 S/F	1926.0	1929.0	8.0	490.0				QL=4 ST=2 TYP=3	
610	PALE	48 C	1929.0	1929.0	2.0	92.0				QL=4 ST=2 TYP=8	
245	PALE	8 S	1929.0	1930.0	2.0	200.0				QL=4 ST=2 TYP=3	
610	SGMR	4 S/F	1929.0	1929.0	5.0	96.0				QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1930.0	1930.0	3.0	180.0				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

JANUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
12	8800	SGMR	8 S	1937.0	1938.0	1.0	450.0			QL=4 ST=2 TYP=3
13	235	CUBA	44 NS	1500.0E		410.0D		6.0		
	280	CUBA	44 NS	1500.0E		410.0D		16.0		
	2840	PEKG	5 S	0105.0	0110.6	7.0	13.3			
	500	HIRA	8 S	0110.0	0111.0	1.0	45.0			
	200	HIRA	8 S	0111.0	0111.0	1.0	30.0			
	2840	PEKG	1 S	0113.0	0114.5	5.0	5.7			
	4995	LEAR	8 S	0304.0	0305.0	1.0	59.0			QL=4 ST=2 TYP=3
	15400	LEAR	46 C	0305.0	0305.0	U	30.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	0305.0	0305.0	U	250.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0305.0	0305.0	U	27.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0305.0	0305.0	U	23.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0305.0	0305.0	U	82.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0306.0E	0307.5E	5.5E	5.5			
	200	HIRA	8 S	0307.0	0307.0	1.0	370.0			
	4995	PALE	48 C	0307.0	0307.0	U	60.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	0307.0	0307.0	U	78.0			QL=4 ST=2 TYP=8
	245	PALE	8 S	0307.0	0307.0	U	390.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0356.0E	0356.3	2.0E	10.4			
	2840	PEKG	20 GRF	0359.0	0401.1	15.0	8.7			
	2840	PEKG	5 S	0534.0	0536.7	8.0	25.8			
	4995	LEAR	8 S	0536.0	0536.0	1.0	60.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0536.0	0536.0	U	27.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0729.3	0729.5	0.6	14.0			
	204	IZMI	7 C	0744.9	0745.1	0.5	8.0			
	204	IZMI	42 SER	0751.1	0751.8	1.1	102.0			
	245	LEAR	8 S	0912.0	0913.0	1.0	78.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0912.0	0913.0	1.0	84.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0913.4	0913.6	0.5	39.0			
	204	IZMI	7 C	0914.9	0914.9	0.3	6.0			
	2950	GORK	2 S/F	0951.3	0951.5	0.5	12.0			
	610	SGMR	49 GB	1336.0	1337.0	1.0	3100.0			QL=4 ST=2 TYP=6
	610	SVTO	49 GB	1336.0	1337.0	1.0	2700.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1336.0	1337.0	2.0	83.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1336.0	1337.0	624.0	3100.0			QL=4 ST=1 TYP=6
	610	SVTO	49 GB	1336.0	1337.0	624.0	2700.0			QL=4 ST=1 TYP=6
	410	SGMR	48 C	1337.0	1337.0	2.0	4000.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	1337.0	1337.0	U	93.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1337.0	1337.0	3.0	3800.0			QL=4 ST=2 TYP=6
	1415	SVTO	8 S	1337.0	1337.0	U	23.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1337.0	1337.0	1.0	78.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1337.0	1337.0	1.0	180.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1337.0	1337.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	1337.0	1337.0	623.0	4000.0			QL=4 ST=1 TYP=6
	410	SVTO	49 GB	1337.0	1337.0	623.0	3800.0			QL=4 ST=1 TYP=6
	4995	SVTO	4 S/F	1337.0	1337.0	623.0	78.0			QL=4 ST=1 TYP=3
	8800	SVTO	4 S/F	1337.0	1337.0	623.0	180.0			QL=4 ST=1 TYP=3
	15400	SVTO	4 S/F	1337.0	1337.0	623.0	140.0			QL=4 ST=1 TYP=3
	410	SVTO	8 S	1438.0	1439.0	1.0	86.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1439.0	1439.0	U	200.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1707.0	1708.1	2.0	12.0	6.0		
	410	SGMR	49 GB	1708.0	1709.0	1.0	1900.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1708.0	1709.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	1708.0	1709.0	412.0	1900.0			QL=4 ST=1 TYP=6
	245	SGMR	4 S/F	1708.0	1709.0	412.0	140.0			QL=4 ST=1 TYP=3
	245	PALE	8 S	1735.0	1735.0	U	78.0			QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	1939.0	1946.0	62.0	10.0	5.0		
	410	PALE	49 GB	1943.0	1944.0	2.0	3800.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	1943.0	1944.0	3.0	1500.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	1943.0	1944.0	257.0	1500.0			QL=4 ST=1 TYP=6
	245	PALE	49 GB	1944.0	1944.0	2.0	5500.0			QL=4 ST=2 TYP=6
	1415	PALE	8 S	1944.0	1945.0	2.0	81.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1944.0	1945.0	2.0	110.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1944.0	1945.0	2.0	120.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1944.0	1945.0	2.0	200.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	1944.0	1945.0	2.0	230.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1944.0	1945.0	2.0	110.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1944.0	1945.0	2.0	67.0			QL=2 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N  
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Jan 02

JANUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
13	1415	SGMR	4 S/F	1944.0	1945.0	3.0	81.0			QL=2 ST=2 TYP=3
	245	PALE	49 GB	1944.0	1944.0	256.0	5500.0			QL=4 ST=1 TYP=6
	1415	PALE	4 S/F	1944.0	1945.0	256.0	81.0			QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	1944.0	1945.0	256.0	110.0			QL=4 ST=1 TYP=3
	4995	PALE	4 S/F	1944.0	1945.0	256.0	120.0			QL=4 ST=1 TYP=3
	8800	PALE	4 S/F	1944.0	1945.0	256.0	200.0			QL=4 ST=1 TYP=3
	15400	PALE	4 S/F	1944.0	1945.0	256.0	230.0			QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1945.0	1952.0	12.0	110.0			QL=2 ST=2 TYP=3
	9500	CUBA	3 S	1945.0	1945.2	4.0	126.0	63.0		
8800	SGMR	4 S/F	1952.0	1954.0	3.0	23.0				QL=2 ST=2 TYP=3
14	280	CUBA	44 NS	1400.0E		470.0D		15.0		
	2840	PEKG	3 S	0120.0	0123.1	13.0	15.2			
	500	HIRA	8 S	0122.0	0123.0	2.0	20.0			
	200	HIRA	8 S	0150.0	0150.0	1.0	30.0			
	2840	PEKG	3 S	0151.0	0155.4	19.0	184.9			
	2800	HIRA	3 S	0153.0	0155.0	9.0	155.0			
	200	HIRA	8 S	0153.0	0153.0	1.0	35.0			
	4995	LEAR	4 S/F	0153.0	0155.0	6.0	260.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0153.0	0155.0	5.0	280.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0153.0	0153.0	U	78.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0154.0	0155.0	4.0	140.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0154.0	0155.0	4.0	350.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0154.0	0155.0	3.0	290.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0155.0	0155.0	U	29.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0157.0	0157.0	1.0	38.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0157.0	0157.0	1.0	62.0			QL=4 ST=2 TYP=3
	500	HIRA	7 C	0518.0	0521.0	14.0	50.0			
	200	HIRA	7 C	0524.0	0535.0	24.0	80.0			
	245	LEAR	48 C	0531.0	0532.0	3.0	64.0			QL=4 ST=2 TYP=8
	245	LEAR	4 S/F	0537.0	0540.0	3.0	71.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0555.0	0555.0	U	66.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1422.0	1422.0	1.0	430.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1422.0	1422.0	U	31.0			QL=4 ST=2 TYP=3
610	SVTO	8 S	1422.0	1422.0	U	300.0			QL=4 ST=2 TYP=3	
2800	PENT	1 S	2234.0	2236.0	5.0	12.0				
200	HIRA	8 S	2242.0	2242.0	1.0	95.0				
15	235	CUBA	44 NS	1400.0E		470.0D		4.0		
	280	CUBA	44 NS	1400.0E		470.0D		18.0		
	245	SGMR	43 NS	1614.0	1618.0	43.0	92.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1614.0	1614.0	466.0	57.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1614.0	1618.0	466.0	92.0			QL=4 ST=1 TYP=1
	200	HIRA	8 S	0513.0	0513.0	1.0	25.0			
	245	LEAR	8 S	0639.0	0639.0	1.0	64.0			QL=4 ST=2 TYP=3
	2950	GORK	1 S	0954.9	0955.2	0.8	4.7			
	9100	GORK	1 S	0955.0	0955.2	0.6	17.0			
	3000	IZMI	1 S	0955.1	0955.2	0.3	9.0	5.0		
	410	SGMR	8 S	1408.0	1408.0	1.0	79.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1408.0	1408.0	1.0	76.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1842.0	1842.0	U	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1842.0	1842.0	U	110.0			QL=4 ST=2 TYP=3
200	HIRA	8 S	2209.0	2210.0	1.0	25.0			0	
16	235	CUBA	44 NS	1400.0E		470.0D		5.0		
	280	CUBA	44 NS	1400.0E		470.0D		16.0		
	245	LEAR	8 S	0152.0	0152.0	U	220.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0243.0	0243.0	1.0	330.0			0
	200	HIRA	8 S	0243.0	0243.0	1.0	20.0			0
	410	LEAR	49 GB	0243.0	0243.0	U	780.0			QL=4 ST=2 TYP=6
	200	HIRA	8 S	0251.0	0251.0	1.0	90.0			WL
	245	LEAR	8 S	0312.0	0312.0	U	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0452.0	0452.0	U	70.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0518.0	0518.0	1.0	96.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0518.0	0518.0	U	75.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0550.0	0550.0	U	290.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0550.0	0550.0	U	38.0			QL=2 ST=2 TYP=3
	9100	GORK	1 S	0807.3	0808.0	0.9	9.5			
410	SGMR	8 S	1319.0	1320.0	1.0	890.0			QL=4 ST=2 TYP=3	

S O L A R R A D I O E M I S S I O N  
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JANUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
16	245	SGMR	8 S	1320.0	1320.0	U	130.0			QL=4 ST=2 TYP=3
17	280	CUBA	44 NS	1050.0E		355.0D		15.0		
	235	CUBA	44 NS	1405.0E		355.0D		4.0		
	245	LEAR	8 S	0612.0	0612.0	U	130.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0612.0	0612.0	U	44.0			QL=2 ST=2 TYP=3
	204	IZMI	7 C	0915.9	0916.0	0.3	8.0			
	127	TORN	7 C	0937.3	0937.8	0.9	30.0	10.0		
	204	IZMI	41 F	0937.4	0937.8	0.8	4.0			
	245	PALE	48 C	2213.0	2218.0	5.0	460.0			QL=4 ST=2 TYP=8
	410	PALE	46 C	2214.0	2214.0	1.0	32.0			QL=4 ST=2 TYP=8
	245	PALE	8 S	2221.0	2221.0	1.0	200.0			QL=4 ST=2 TYP=3
18	235	CUBA	44 NS	1400.0E		470.0D		5.0		
	280	CUBA	44 NS	1400.0E		470.0D		17.0		
	280	CUBA	7 C	1952.4	1954.1	2.3	39.0U	19.0		
	245	PALE	8 S	1954.0	1954.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1954.0	1954.0	U	120.0			QL=4 ST=2 TYP=3
19	235	CUBA	44 NS	1400.0E		240.0D		4.0		
	280	CUBA	44 NS	1400.0E		240.0D		16.0		
	245	PALE	8 S	0010.0	0010.0	U	10.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0010.0	0010.0	U	100.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0021.0	0023.6	5.0	7.9			
	200	HIRA	8 S	0023.0	0023.0	1.0	20.0			0
	204	IZMI	41 F	0737.7	0738.0	1.3	38.0			
	204	IZMI	7 C	0741.9	0742.0	0.2	8.0			
	9100	GORK	21 GRF	0944.0	1025.6	67.0D	17.0			
	3000	IZMI	45 C	1001.8	1003.9	10.1	105.0	24.0		
	8800	LEAR	8 S	1003.0	1004.0	1.0	49.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	1003.0	1004.0	3.0	51.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	1003.0	1004.0	4.0	110.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	1003.0	1003.0	3.0	83.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1003.0	1004.0	1.0	62.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1003.0	1004.0	3.0	58.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1003.0	1004.0	4.0	100.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1003.0	1004.0	3.0	87.0			QL=4 ST=2 TYP=3
	2950	GORK	46 C	1003.0	1004.0	12.9	130.0			
	2950	GORK	46 C	1003.0	1005.9		56.0			
	9100	GORK	46 C	1003.2	1004.1	5.5	60.0			
	9100	GORK	46 C	1003.2	1005.5		17.0			
	600	GORK	41 F	1003.4	1005.0		37.0			
	900	GORK	46 C	1003.4	1004.5		20.0			
	600	GORK	41 F	1003.4	1003.6	1.7	35.0			
	900	GORK	46 C	1003.4	1003.8	6.4	53.0			
	600	GORK	41 F	1003.4	1003.9		58.0			
	15400	LEAR	8 S	1004.0	1004.0	U	34.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1004.0	1004.0	1.0	41.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	1028.0	1028.0	U	85.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	1028.0	1028.0	U	85.0			QL=2 ST=4 TYP=3
	410	LEAR	8 S	1028.0	1028.0	U	78.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	1028.0	1028.0	U	78.0			QL=2 ST=4 TYP=3
	204	IZMI	42 SER	1126.4	1126.4	0.4	11.0			
	410	SGMR	48 C	1326.0	1333.0	10.0	490.0			QL=4 ST=4 TYP=8
	410	SGMR	48 C	1326.0	1332.0	634.0	470.0			QL=4 ST=1 TYP=8
	245	SGMR	49 GB	1522.0	1522.0	1.0	5100.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1522.0	1522.0	U	31.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1522.0	1522.0	518.0	3400.0			QL=4 ST=1 TYP=6
20	127	TORN	44 NS	0730.0E		430.0D		8.0		V=0
	235	CUBA	44 NS	1400.0E		470.0D		4.0		
	280	CUBA	44 NS	1400.0E		470.0D		15.0		
	2840	PEKG	5 S	0253.0	0256.1	6.0	14.5			
21	127	TORN	43 NS	1042.0		238.0		6.0		V=0
	2840	PEKG	1 S	0325.0	0328.9	6.0	5.3			
	2840	PEKG	5 S	0537.0	0539.2	5.0	10.5			
	8800	LEAR	8 S	0539.0	0539.0	U	29.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0638.0	0638.0	U	100.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N  
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		
21	610	PALE	8 S	1811.0	1812.0	2.0	180.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1815.0	1816.0	2.0	110.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2122.0	2126.0	10.0U	6.0			
22	127	TORN	44 NS	1137.0E		177.0D		7.0		V=0
	235	CUBA	44 NS	1400.0E		60.0D		4.0		
	280	CUBA	44 NS	1400.0E		60.0D		16.0		
	610	LEAR	8 S	0543.0	0544.0	1.0	57.0			QL=4 ST=2 TYP=3
	600	GORK	41 F	0855.8	0856.0	2.9	12.0			
	600	GORK	41 F	0855.8	0858.2		7.8			
	600	GORK	41 F	0855.8	0857.7		11.0			
2800	PENT	29 PBI	2117.0	2123.0	15.0U	7.0				
23	235	CUBA	44 NS	1400.0E		60.0D		5.0		
	280	CUBA	44 NS	1400.0E		60.0D		16.0		
	245	LEAR	8 S	0533.0	0533.0	1.0	98.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0732.0	0734.0	2.0	62.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0733.0	0735.7	6.0	5.0			
	9100	GORK	2 S/F	0735.4	0735.7	1.0	16.0			
	245	LEAR	8 S	0904.0	0905.0	1.0	45.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	0904.0	0904.8	2.6	610.0	220.0		
	204	IZMI	41 F	0904.6	0904.9	1.5	46.0			
	3000	IZMI	20 GRF	0957.9	0958.5	2.1	12.0	5.0		
	410	SVTO	8 S	1218.0	1218.0	U	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1223.0	1223.0	1.0	360.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1334.0	1334.0	1.0	72.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1334.0	1334.0	1.0	92.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1335.0	1335.0	U	24.0			QL=4 ST=2 TYP=3
6700	CUBA	1 S	2009.8	2010.4	2.2	10.0	5.0		14R	
200	HIRA	8 S	2227.0	2227.0	1.0	85.0			0	
24	235	CUBA	44 NS	1400.0E		60.0D		5.0		
	280	CUBA	44 NS	1400.0E		60.0D		15.0		
	200	HIRA	8 S	0150.0	0150.0	1.0	10.0			MR
	2800	HIRA	3 S	0327.0	0332.0	12.0	85.0			0
	2840	PEKG	3 S	0328.0E	0331.5	15.0E	94.8			
	2695	LEAR	8 S	0331.0	0331.0	2.0	61.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0331.0	0331.0	2.0	36.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0331.0	0332.0	3.0	43.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0508.0	0508.0	1.0	10.0			0
	2840	PEKG	5 S	0649.0E	0649.9	5.0E	16.1			
	204	IZMI	41 F	0930.8	0930.8	0.4	22.0			
	410	SGMR	8 S	1504.0	1506.0	2.0	97.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1504.0	1504.0	1.0	160.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1509.0	1510.0	3.3	9.0	4.0		50R
2800	PENT	29 PBI	1840.0	1849.0	52.0U	21.0				
2800	PENT	29 PBI	2037.0	2043.0	34.0	9.0				
25	235	CUBA	44 NS	1425.0E		445.0D		4.0		
	280	CUBA	44 NS	1425.0E		445.0D		12.0		
	2840	PEKG	1 S	0227.0	0230.4	6.0	5.7			
	245	LEAR	48 C	0232.0	0232.0	3.0	67.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	0755.9	0756.4	0.9	13.0			
	204	IZMI	41 F	1009.2	1009.4	0.4	17.0			
	3000	IZMI	40 F	1037.3	1039.8	3.5	7.0	5.0		
	204	IZMI	7 C	1126.1	1126.2	0.2	20.0			
	204	IZMI	7 C	1130.8	1130.9	0.2	15.0			
	33	UPIC	46 C	1208.0	1210.5	4.0				
26	235	CUBA	44 NS	1500.0E		410.0D		5.0		
	280	CUBA	44 NS	1500.0E		410.0D		14.0		
	200	HIRA	8 S	0020.0	0021.0	2.0	40.0			WR
	245	LEAR	8 S	0802.0	0802.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0802.0	0802.0	U	85.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	0802.0	0802.4	0.8	301.0			
	204	IZMI	41 F	0830.6	0831.1	0.8	34.0			
	127	TORN	8 S	0858.4	0859.1	1.4	270.0	130.0		
	204	IZMI	46 C	0858.9	0859.4	0.9	296.0			
	410	SVTO	8 S	0921.0	0921.0	U	73.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N  
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
26	204	IZMI	7 C	1123.2	1123.2	0.4	7.0			
	9500	CUBA	1 S	1447.0	1447.8	2.1	16.0	8.0		
	6700	CUBA	1 S	1448.0	1448.8	1.0	21.0	10.0		28R
	2800	PENT	29 PBI	1918.0	1928.0	14.0U	17.0			
	9500	CUBA	20 GRF	1928.0	2025.0	126.0	17.0	8.0		
	6700	CUBA	2 S/F	1956.0	1957.0	3.0	10.0	5.0		25R
27	245	LEAR	43 NS	1021.0	1028.0	9.0	140.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	1021.0	1022.0	819.0	99.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	1021.0	1028.0	819.0	140.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1024.0	1050.0	133.0	250.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1024.0	1028.0	816.0	120.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1024.0	1050.0	816.0	250.0			QL=4 ST=1 TYP=1
	127	TORN	44 NS	1030.0E		240.0D		8.0		V=0
	204	IZMI	43 NS	1056.0		53.0		78.0		
	235	CUBA	44 NS	1330.0E		390.0D		4.0		
	280	CUBA	44 NS	1330.0E		390.0D		15.0		
	2840	PEKG	5 S	0338.0	0341.3	9.0	26.6			
	410	LEAR	8 S	0420.0	0421.0	1.0	100.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0720.3	0723.7	4.0	56.0			
	900	GORK	8 S	0721.9	0730.0	8.1	9.3			
	600	GORK	1 S	0722.7	0723.0	0.5	11.0			
	410	SVTO	8 S	0724.0	0724.0	U	79.0			QL=4 ST=2 TYP=3
	600	GORK	1 S	0727.3	0727.5	0.4	6.0			
	204	IZMI	7 C	0828.5	0828.6	0.3	15.0			
	245	LEAR	8 S	0943.0	0943.0	U	94.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0943.0	0943.0	1.0	74.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0944.1	0944.5	1.7	10.0			
	600	GORK	1 S	0945.4	0945.6	0.4	3.6			
	245	LEAR	48 C	1009.0	1009.0	U	55.0			QL=4 ST=2 TYP=8
	245	LEAR	48 C	1014.0	1015.0	3.0	170.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	1017.0	1017.0	5.0	120.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	1032.4	1032.9	1.0	98.0			
	204	IZMI	7 C	1044.6	1044.6	0.1	10.0			
	245	SGMR	8 S	1237.0	1237.0	U	65.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1717.0	1721.0	17.0	7.0			
	410	SGMR	8 S	1719.0	1720.0	1.0	62.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	1720.0	1720.0	1.0	110.0			QL=4 ST=2 TYP=3	
6700	CUBA	1 S	1720.0	1721.0	11.0	11.0	5.0		15R	
9500	CUBA	1 S	1720.2	1721.0	2.0	8.0	4.0			
28	127	TORN	44 NS	0900.0E		350.0D		16.0		V=1
	235	CUBA	44 NS	1400.0E		120.0D		5.0		
	280	CUBA	44 NS	1400.0E		120.0D		14.0		
	245	SVTO	48 C	0656.0	0657.0	4.0	310.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	0657.0E	0657.1	3.6E	30.0			
	410	SVTO	8 S	0658.0	0659.0	1.0	74.0			QL=4 ST=2 TYP=3
	9100	GORK	4 S/F	0740.4	0740.7	0.6	200.0			
	2840	PEKG	1 S	0811.0	0813.6	9.0	8.5			
	245	SVTO	8 S	0852.0	0852.0	U	55.0			QL=4 ST=2 TYP=3
	900	GORK	8 S	0935.2	0935.4	0.4	98.0			
	245	SVTO	8 S	1209.0	1209.0	1.0	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1255.0	1255.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1255.0	1255.0	U	150.0			QL=4 ST=4 TYP=3
	245	SVTO	8 S	1303.0	1303.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1303.0	1303.0	U	120.0			QL=4 ST=4 TYP=3
	410	PALE	8 S	1913.0	1914.0	1.0	540.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1914.0	1914.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1914.0	1914.0	U	90.0			QL=4 ST=2 TYP=3
410	SGMR	8 S	1914.0	1914.0	U	210.0			QL=4 ST=2 TYP=3	
245	PALE	48 C	1948.0	1948.0	1.0	50.0			QL=4 ST=2 TYP=8	
245	SGMR	8 S	1948.0	1950.0	2.0	66.0			QL=4 ST=2 TYP=3	
29	8800	LEAR	46 C	0605.0	0605.0	U	36.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	0845.0	0845.0	U	68.0			QL=4 ST=2 TYP=3
	8800	LEAR	46 C	0846.0	0847.0	5.0	44.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	0947.4	0947.8	0.6	60.0			
	3000	IZMI	22 GRF	1013.6	1015.5	15.0	17.0	6.0		
	245	SGMR	8 S	1708.0	1708.0	U	78.0			QL=4 ST=2 TYP=3

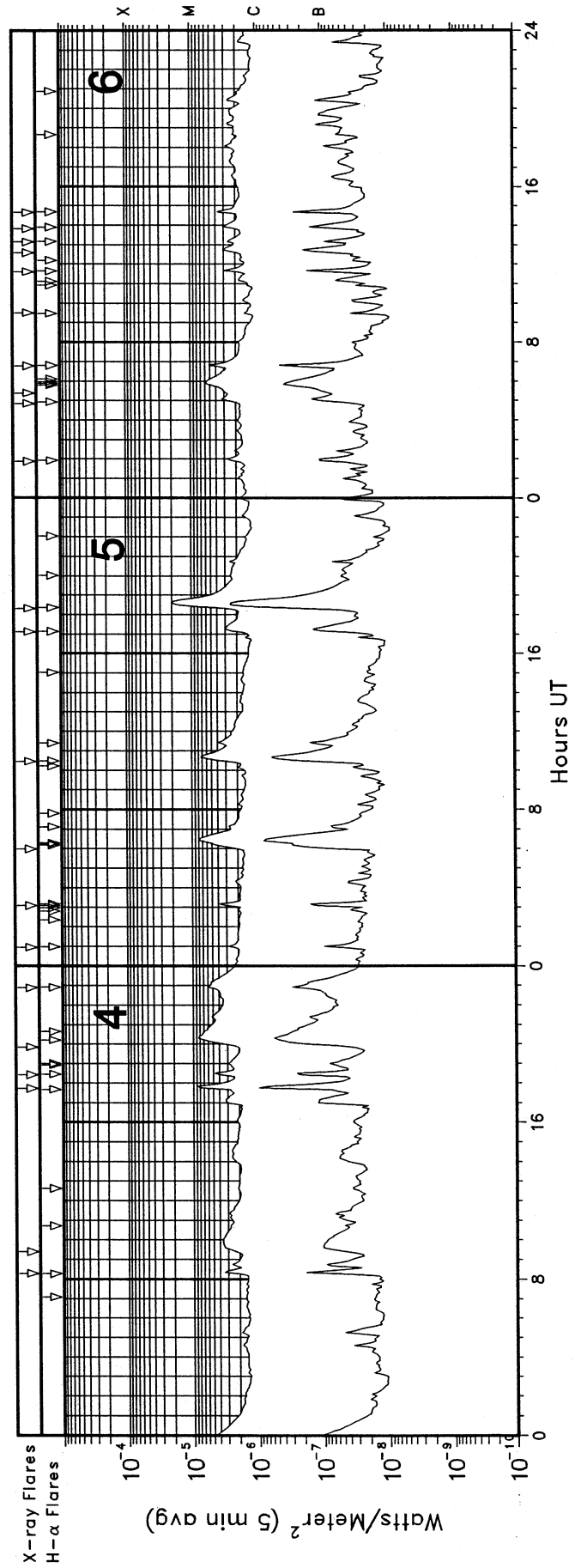
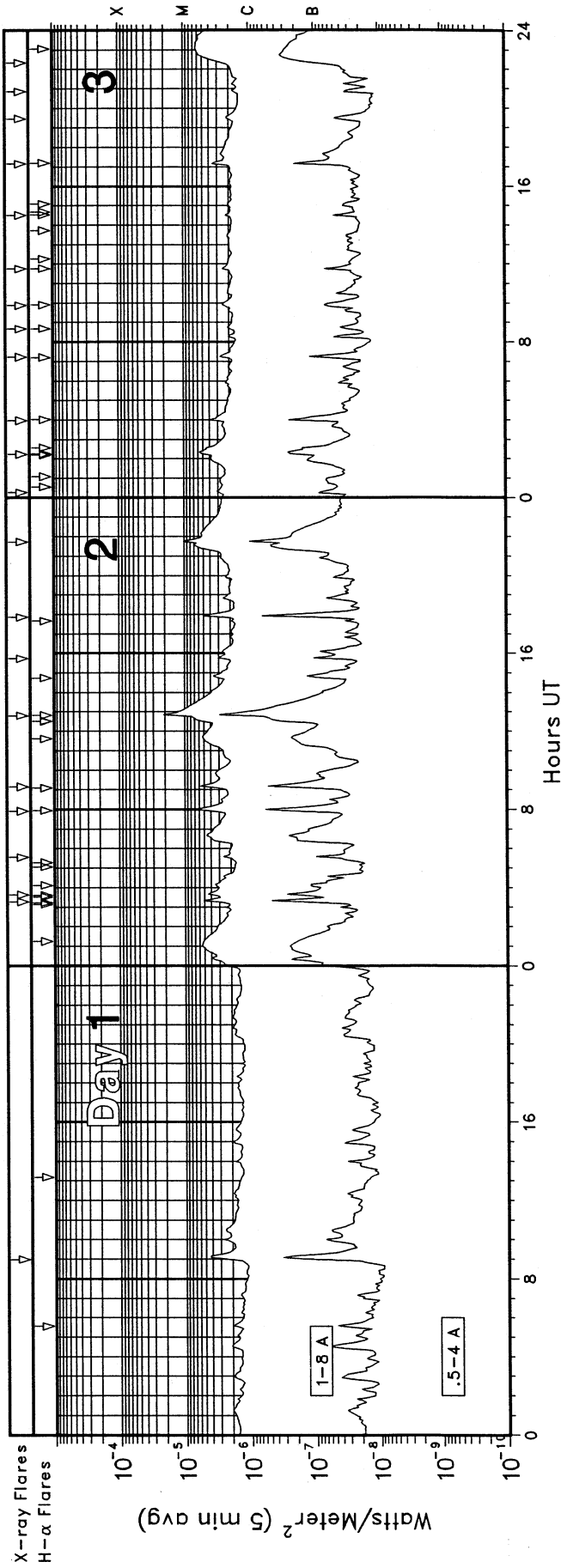
S O L A R R A D I O E M I S S I O N  
Outstanding Occurrences

29  
Jan 02

JANUARY 2002

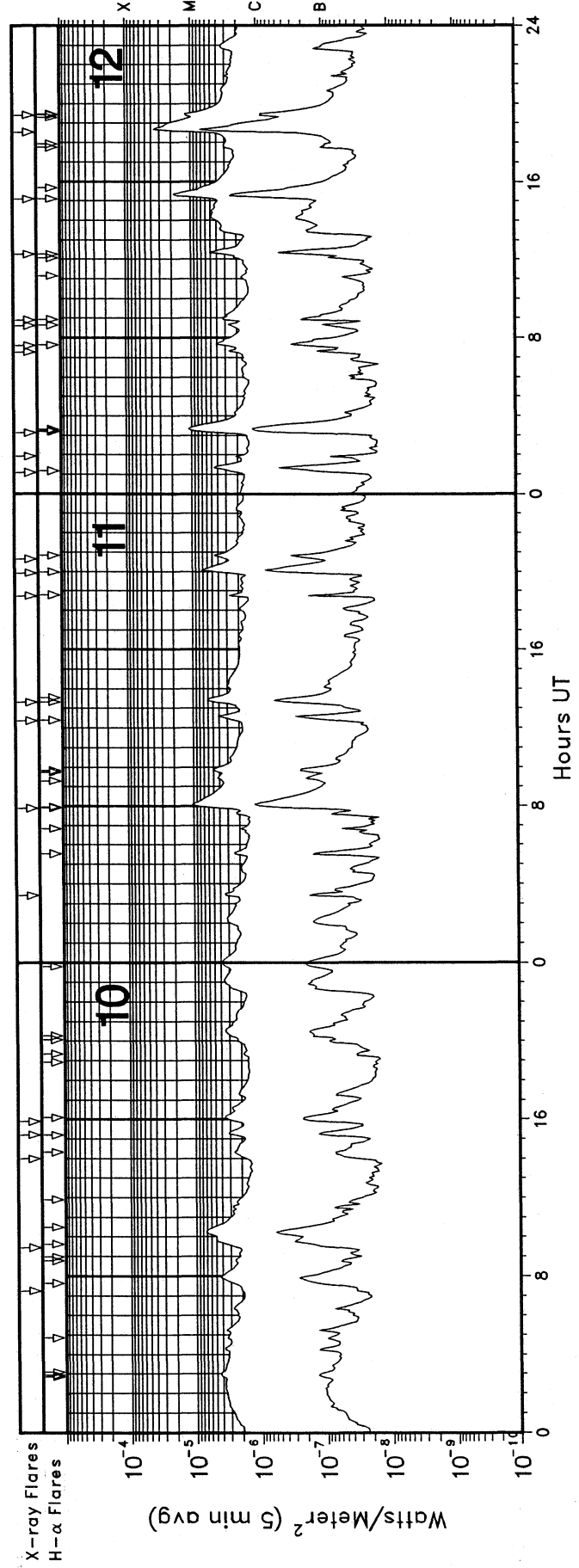
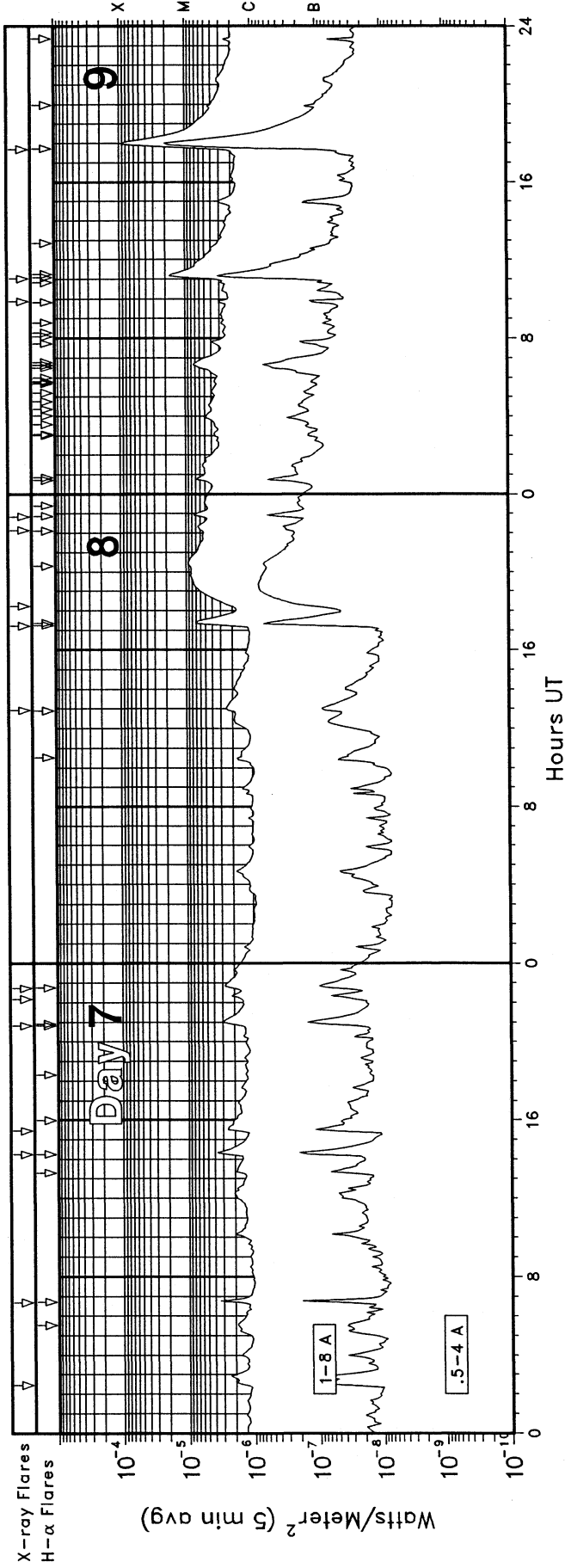
Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
29	245	PALE	49 GB	1836.0	1837.0	2.0	650.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1839.0	1840.0	2.0	490.0			QL=4 ST=2 TYP=3
30	235	CUBA	44 NS	1400.0E		470.0D		6.0		
	280	CUBA	44 NS	1400.0E		470.0D		16.0		
	2840	PEKG	1 S	0112.0	0114.5	9.0	5.9			
	200	HIRA	8 S	0116.0	0117.0	1.0	15.0			0
	200	HIRA	8 S	0239.0	0239.0	1.0	190.0			0
	200	HIRA	8 S	0315.0	0315.0	2.0	15.0			0
	204	IZMI	7 C	0753.5	0753.6	0.1	11.0			
	33	UPIC	4 S/F	1123.0	1123.5	1.5				
	204	IZMI	42 SER	1123.2	1123.7	1.6	41.0			
	245	SGMR	8 S	1234.0	1234.0	U	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1234.0	1234.0	U	110.0			QL=4 ST=2 TYP=3
	6700	CUBA	21 GRF	1350.0	1508.0	141.0	13.0	6.0		4R
	2800	PENT	29 PBI	1635.0	1638.0	17.0	18.0			
	6700	CUBA	2 S/F	1638.0	1638.0	2.0	30.0	15.0		4R
	9500	CUBA	1 S	1638.2	1638.8	1.6	40.0	20.0		
	6700	CUBA	2 S/F	1739.2	1740.1	2.8	24.0	12.0		4L
	9500	CUBA	1 S	1839.4	1840.0	2.1	53.0	26.0		
	2800	PENT	1 S	1848.0	1851.0	6.0	5.0			
	2800	PENT	21 GRF	1910.0	1928.0	22.0U	3.0			
	200	HIRA	8 S	2328.0	2329.0	1.0	10.0			0
500	HIRA	8 S	2331.0	2331.0	1.0	15.0				
31	235	CUBA	44 NS	1400.0E		470.0D		5.0		
	280	CUBA	44 NS	1400.0E		470.0D		17.0		
	200	HIRA	8 S	0151.0	0151.0	1.0	40.0			0
	204	IZMI	41 F	0730.3	0730.6	2.1	41.0			
	200	HIRA	8 S	0731.0	0732.0	1.0	15.0			0
	245	SVTO	8 S	0839.0	0840.0	2.0	86.0			QL=4 ST=2 TYP=3
	2950	GORK	27 RF	0949.7	0950.2	33.3	3.4			
	9100	GORK	7 C	1009.6	1012.2		12.0			
	9100	GORK	7 C	1009.6	1010.3	4.9	9.6			
	204	IZMI	42 SER	1020.4	1022.6	2.7	34.0			
	245	LEAR	8 S	1022.0	1022.0	U	71.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1022.0	1022.0	U	77.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1119.6	1119.9	0.7	44.0			
	204	IZMI	42 SER	1157.3	1158.1	2.1	57.0			
	4995	SGMR	48 C	1439.0	1440.0	1.0	170.0			QL=4 ST=2 TYP=8
	4995	SVTO	8 S	1439.0	1440.0	2.0	240.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1439.0	1440.0	2.0	280.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1439.0	1440.0	1.0	100.0			QL=4 ST=2 TYP=3
	6700	CUBA	3 S	1439.0	1440.4	269.0U	269.0U	134.0		10L
	9500	CUBA	3 S	1439.2	1440.3	2.8	251.0	125.0		
	8800	SGMR	48 C	1440.0	1440.0	U	230.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1440.0	1440.0	U	56.0			QL=4 ST=2 TYP=8
	9500	CUBA	2 S/F	1529.8	1530.8	1.5	10.0	5.0		
15400	SVTO	8 S	1538.0	1539.0	2.0	93.0			QL=4 ST=2 TYP=3	
2800	PENT	21 GRF	1634.0	1644.0	54.0	8.0				
200	HIRA	8 S	2146.0	2148.0	2.0	10.0			0	
200	HIRA	8 S	2200.0	2200.0	1.0	10.0			0	

# GOES X-RAY DETECTOR January 2002

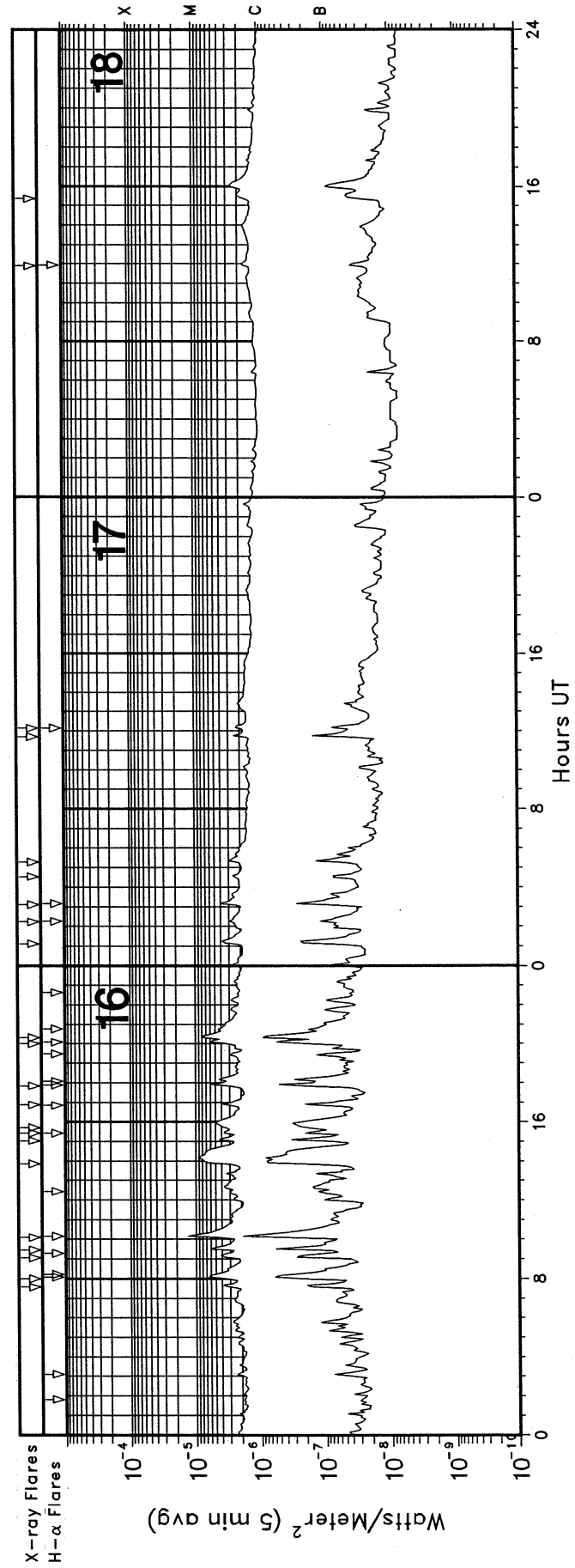
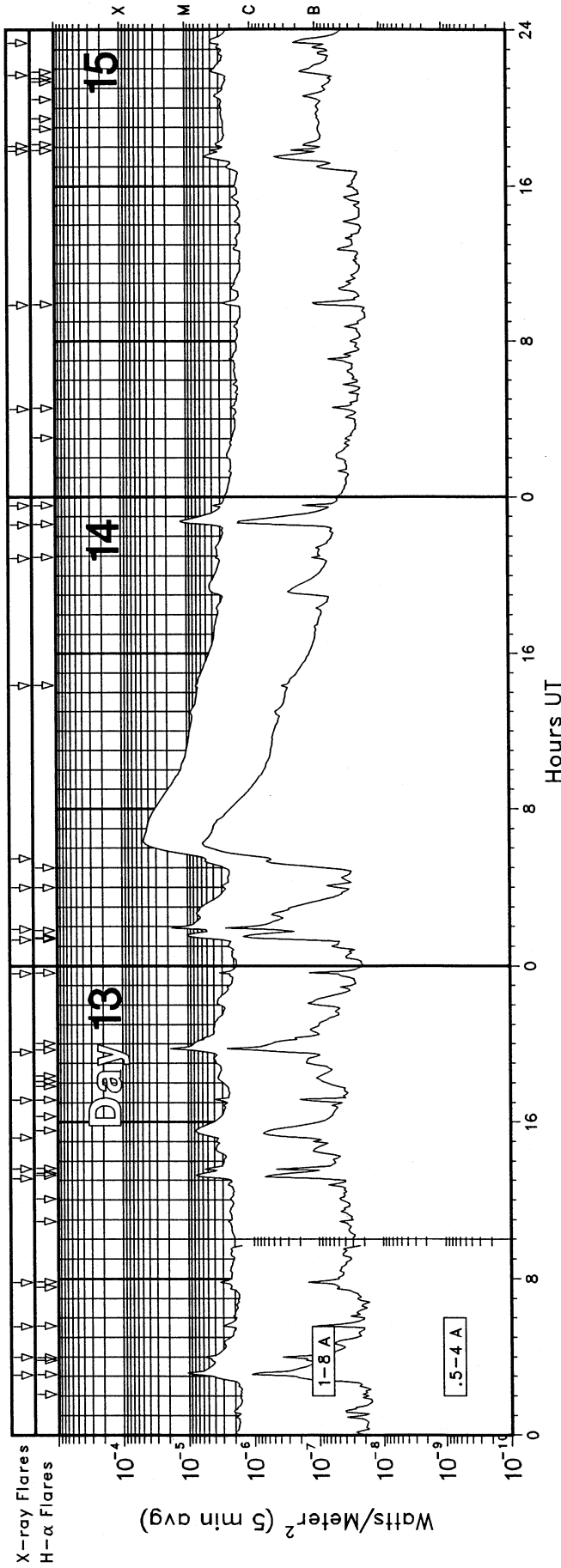




# GOES X-RAY DETECTOR January 2002

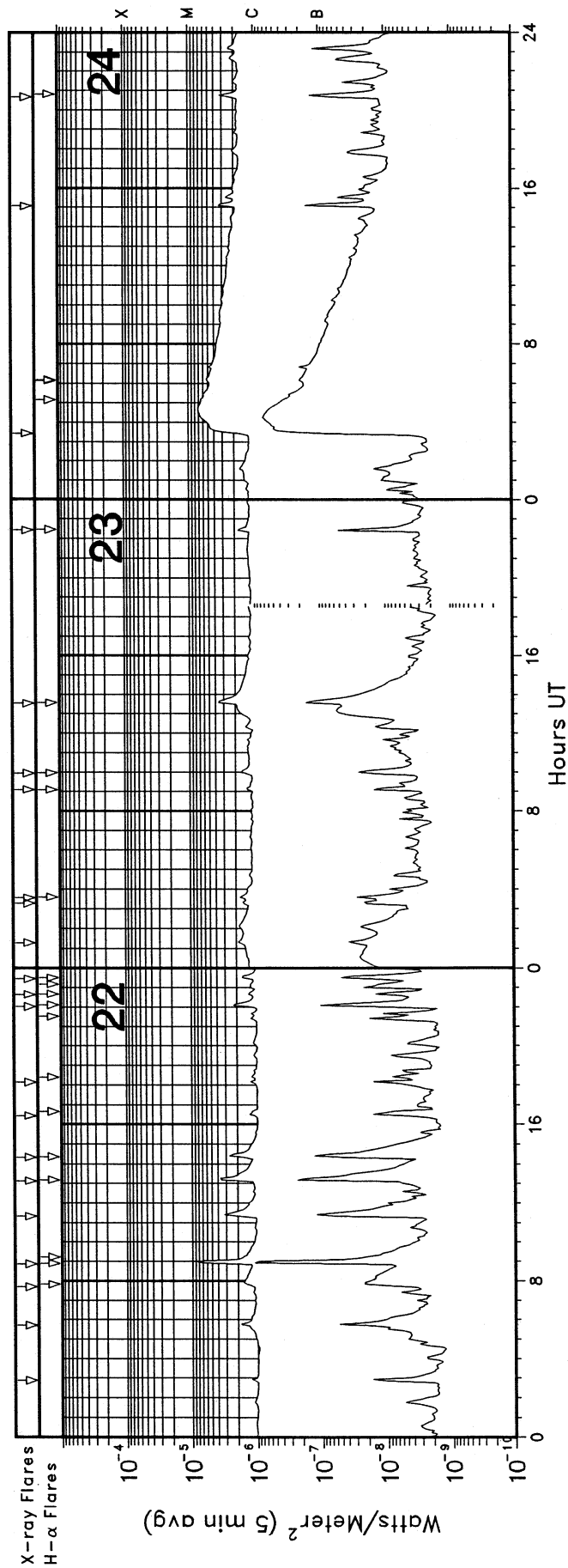
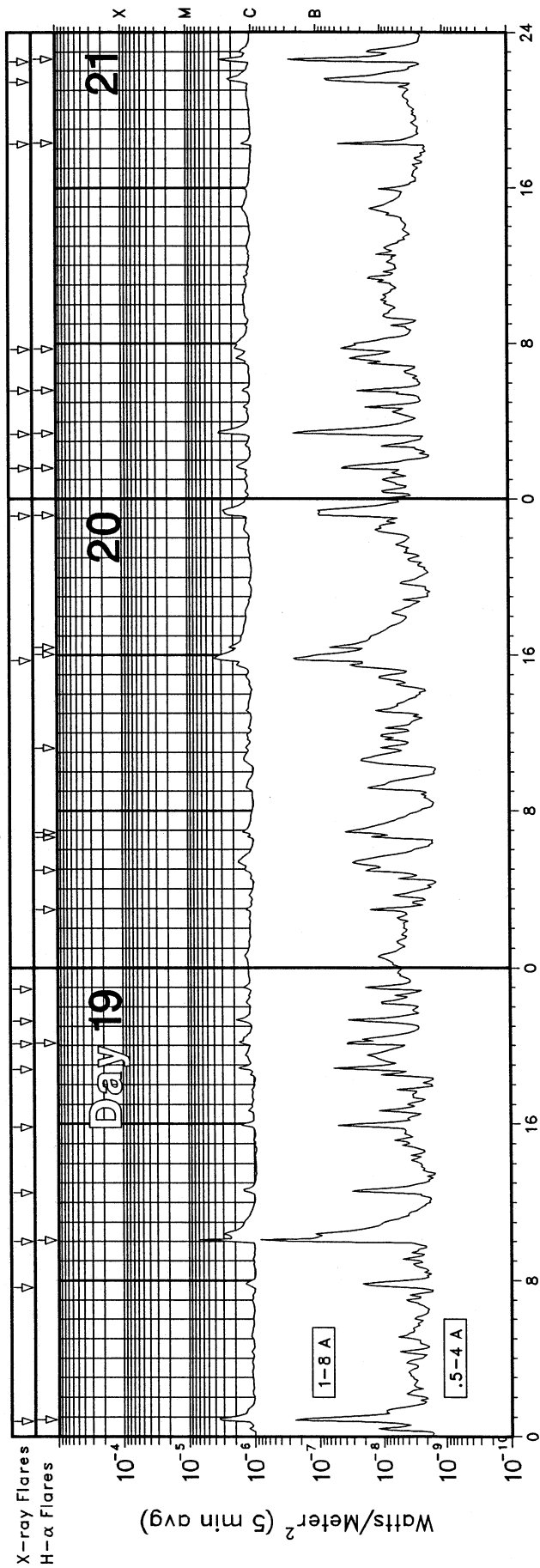


# GOES X-RAY DETECTOR January 2002

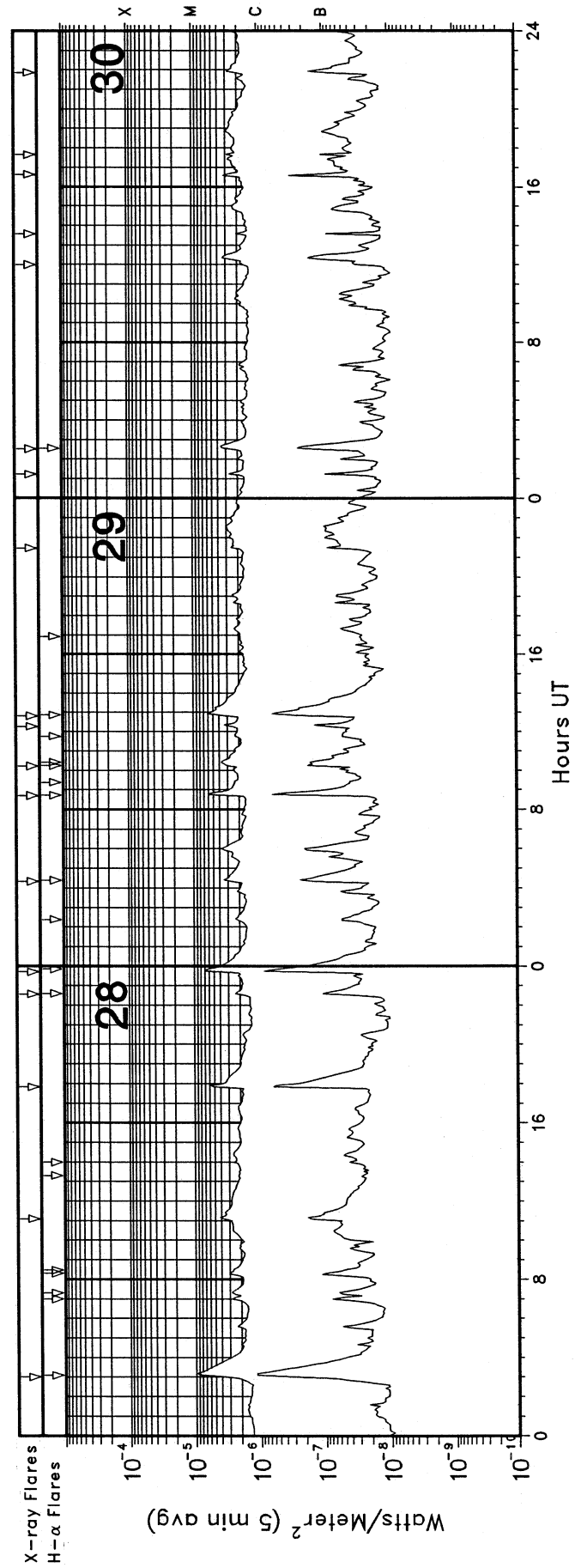
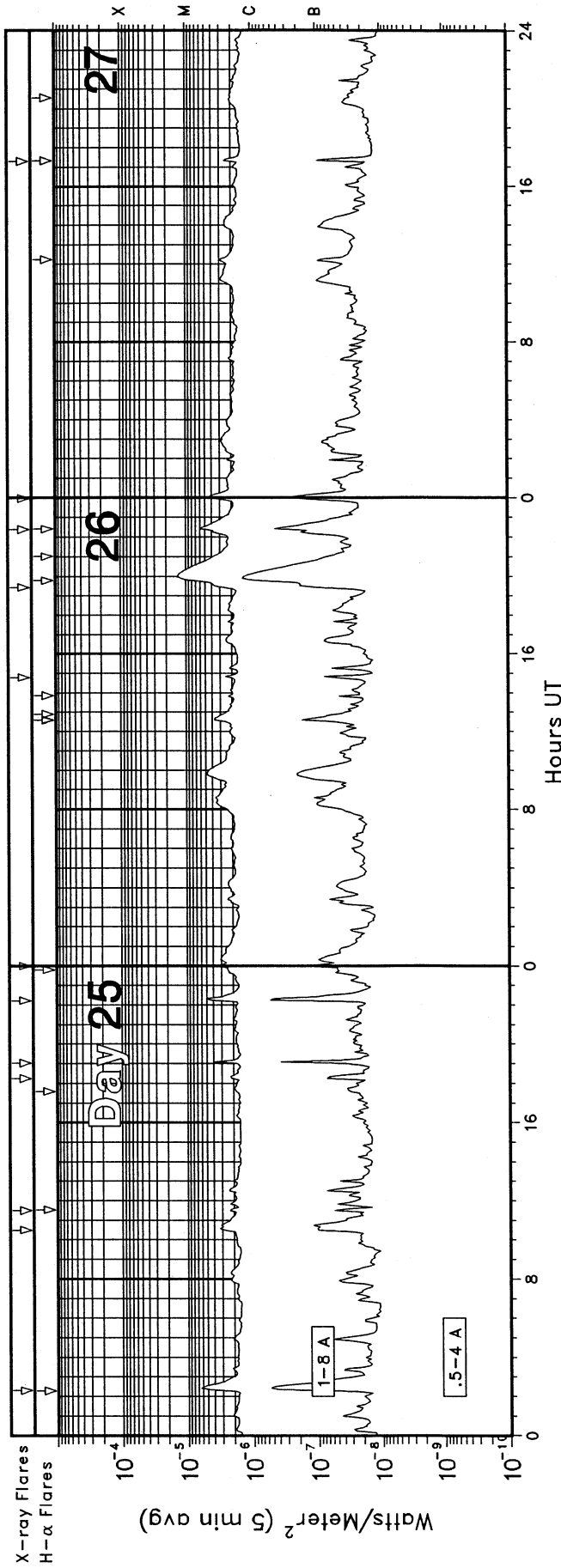


# GOES X-RAY DETECTOR

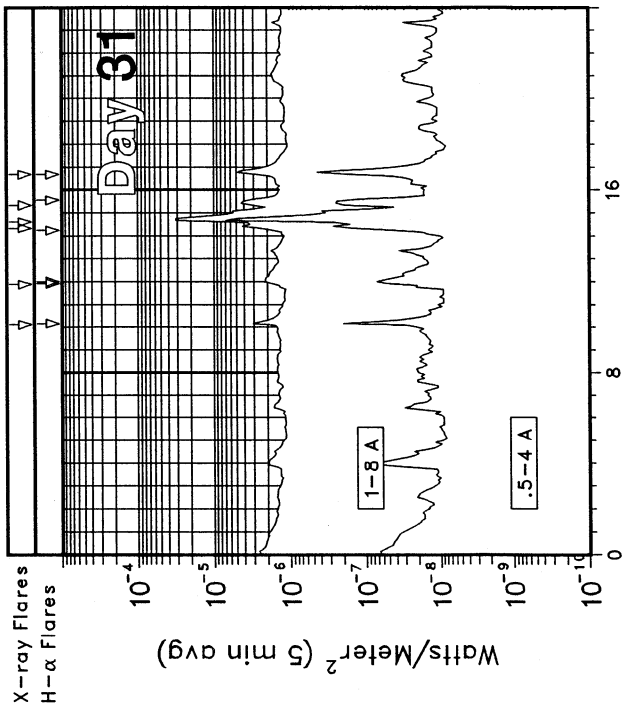
## January 2002



# GOES X-RAY DETECTOR January 2002



# GOES X-RAY DETECTOR January 2002



January 2002

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	0859	0910	0917				C4.5		3.8E-03
02	0316	0323	0327	N04	W90	SF	C5.2	9751	2.7E-03
02	0338	0341	0347	S06	W58	SF	C4.6	9754	2.3E-03
02	0533	0536	0538	N13	W43	SF	C3.1	9764	7.5E-04
02	0755	0801	0808	S07	W56	SF	C7.2	9754	4.2E-03
02	0909	0913	0916	S08	W57	SF	C6.7	9754	2.3E-03
02	1248	1252	1255	S07	W68	1N	M2.4	9754	7.3E-03
02	1543	1548	1554				C3.2		1.9E-03
02	1751	1757	1804				C5.1		3.0E-03
02	2144	2148	2151				M1.1		4.1E-03
03	0016	0019	0023				C3.5		1.3E-03
03	0214	0220	0228	S11	E12	1F	C5.9	9767	4.4E-03
03	0358	0402	0407	S05	W69	SF	C4.0	9754	1.9E-03
03	0713	0717	0723	S06	W75	SF	C2.8	9754	1.5E-03
03	0840	0846	0853	N14	W60	SF	C2.1	9764	1.6E-03
03	0952	0959	1003				C2.6		1.6E-03
03	1145	1147	1151	N07	W35	SF	C2.7	9770	9.0E-04
03	1430	1432	1438	N07	W37	SF	C2.3	9770	1.1E-03
03	1709	1713	1717	S26	E30	SF	C4.4	9767	1.7E-03
03	1928	1934	1942				C2.2		1.8E-03
03	2051	2054	2058				C1.9		7.5E-04
03	2220	2304	0010	S17	E16	SF	C6.3	9767	3.5E-02
04	0817	0823	0830	S11	W05	SF	C3.6		2.4E-03
04	0924	0952	1035				C3.7		1.4E-02
04	1743	1749	1754	N16	E71	SF	M1.0		5.1E-03
04	1825	1829	1834	N13	E58	1F	C5.6	9773	2.4E-03
04	1951	2023	2104	N14	E67	1F	C8.7	9773	2.7E-02
04	2253	2256	2258	S20	E03	SF	C7.2	9767	1.8E-03
05	0057	0100	0103	S19	E02	SF	C3.1	9767	9.7E-04
05	0304	0310	0315				C4.1	9768	2.2E-03
05	0559	0631	0647	N18	E62	SF	C8.0	9773	1.5E-02
05	1027	1043	1056	N16	E58	SF	C7.4	9773	9.9E-03
05	1707	1718	1740	N13	E57	SF	C3.1	9773	5.3E-03
05	1819	1840	1851	N14	E53	1F	M1.9	9773	2.5E-02
06	0152	0200	0207	N16	E50	SF	C2.8	9773	2.1E-03
06	0451	0507	0523	S05	W82	SF	C3.4	9768	5.1E-03
06	0523	0555	0616				C5.9		1.4E-02
06	0646	0652	0655	S08	W84	SF	C5.3	9768	2.5E-03
06	0930	0933	0935	S18	W16	SF	C1.6	9767	4.6E-04
06	1136	1141	1147	S17	W13	SF	C3.1	9767	1.7E-03
06	1234	1248	1259				C3.2		3.8E-03
06	1307	1312	1318	S21	W09	SF	C2.7	9767	1.6E-03
06	1348	1357	1409	N15	E40	SF	C3.1	9773	3.2E-03
06	1438	1444	1446	S18	W18	SF	C6.2	9767	1.7E-03
07	0227	0256	0305				C2.4		4.4E-03
07	0641	0647	0652	N15	E37	1F	C3.5	9773	1.8E-03
07	1414	1422	1430	S20	W27	SF	C3.8	9767	2.9E-03
07	1526	1534	1603	N14	E27	SF	C2.7	9773	5.0E-03
07	2049	2101	2119	N13	E24	SF	C2.9	9773	4.3E-03
07	2210	2221	2228				C2.3		2.0E-03
07	2243	2255	2312	N14	E24	SF	C2.8	9773	4.3E-03
08	1255	1301	1316	N14	E17	SF	C2.5	9773	3.1E-03
08	1713	1725	1739	S18	W42	1F	C7.2	9767	8.2E-03
08	1814	2025	2139				C9.6		8.6E-02
08	2209	2222	2227	N14	E11	SF	C6.7	9773	6.9E-03
08	2251	2257	2306	N13	E06	SF	C7.5	9773	6.2E-03

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
09	0952	0955	0957				C4.3		1.0E-03
09	1101	1113	1130	N13	E08	1F	M1.6	9773	2.0E-02
09	1742	1801	1812	N13	W02	2B	M9.5	9773	9.1E-02
10	0715	0759	0820	N13	W10	SF	C4.3	9773	1.2E-02
10	0927	1018	1039	N14	W09	SF	C7.0	9773	2.2E-02
10	1359	1420	1449	N14	W10	SF	C2.6	9773	6.8E-03
10	1512	1518	1528	N14	W13	SF	C3.2	9773	2.9E-03
10	1553	1608	1621	N14	W16	SF	C3.6	9773	5.3E-03
11	0324	0328	0335				C3.7		2.2E-03
11	0753	0807	0831				M1.0	9767	1.7E-02
11	1222	1236	1242	N13	W27	SF	C4.2	9773	3.8E-03
11	1319	1329	1337	N17	W22	SF	C6.1	9773	5.8E-03
11	1844	1848	1850	S06	W10	SF	C3.7	9775	9.7E-04
11	1955	2007	2020	N16	W27	SF	C7.3	9773	7.6E-03
11	2038	2052	2057	S05	W15	SF	C4.8	9775	4.2E-03
12	0105	0123	0130	N12	W33	SF	C4.7	9773	4.8E-03
12	0155	0156	0157				C3.0		3.0E-04
12	0307	0322	0338				M1.0	9775	1.5E-02
12	0717	0721	0725				C2.7		1.2E-03
12	0736	0742	0753	S06	W21	SF	C4.1	9775	3.7E-03
12	0837	0840	0842	N15	W38	SF	C3.1	9773	8.3E-04
12	0854	0858	0919	N11	W41	1F	C3.4	9773	4.4E-03
12	1215	1221	1229				C5.4		3.5E-03
12	1505	1519	1533	S05	W26	1N	M1.7	9775	1.9E-02
12	1832	1843	1903				M3.4		4.3E-02
12	1925	1929	1934	S11	W39	SF	M1.3	9775	6.3E-03
13	0304	0310	0313	N17	W40	1N	M1.4	9773	5.1E-03
13	0359	0401	0403	S14	E15	SF	C8.0	9778	1.4E-03
13	0534	0538	0542	N30	E13	SF	C3.5	9779	1.4E-03
13	0749	0752	0755	N17	W43	SF	C3.7	9773	1.2E-03
13	1306	1315	1326	S06	W45	SF	C7.8	9775	7.1E-03
13	1336	1338	1341	S05	W44	SF	C8.0	9775	1.8E-03
13	1512	1533	1555	N17	W50	SF	C7.4	9773	1.6E-02
13	1707	1710	1712	S07	W46	SF	C5.4	9775	1.2E-03
13	1935	1946	1949	S07	W48	SF	M2.2	9775	9.1E-03
13	2337	2341	2343	S15	E04	SF	C3.6	9778	1.1E-03
14	0120	0136	0144				M1.0	9775	1.0E-02
14	0152	0156	0203	N05	E44	2N	M1.7	9782	8.4E-03
14	0359	0408	0410	S15	W03	SF	C3.0	9778	1.9E-03
14	0529	0627	0825				M4.4		3.4E-01
14	1421	1423	1425	S07	W59	SF	C7.7	9775	1.7E-03
14	2053	2057	2059	N03	E34	SF	C3.7	9782	1.2E-03
14	2235	2246	2258	S05	W65	SF	M1.1	9775	1.2E-02
14	2334	2338	2340	N17	W70	SF	C4.9	9773	1.3E-03
15	0431	0435	0441	N16	W76	SF	C2.1	9773	1.1E-03
15	0953	1000	1007	N07	E25	SF	C2.6	9782	1.9E-03
15	1748	1752	1754	S06	W70	SF	C4.6	9775	1.4E-03
15	1804	1809	1816	S08	W71	SF	C3.4	9775	2.3E-03
15	2141	2153	2213	S08	W76	SF	C3.9	9775	6.4E-03
15	2320	2323	2328				C4.7		2.0E-03
16	0734	0740	0744				C4.3		2.1E-03
16	0800	0809	0817	S07	W80	SF	C7.1	9775	5.6E-03
16	0903	0908	0919	S07	W85	SF	C4.3	9775	3.5E-03
16	0927	0932	0938				C6.6		3.3E-03
16	1005	1013	1018	S05	W75	SF	M1.5	9775	7.7E-03
16	1351	1413	1438				C9.5		2.0E-02

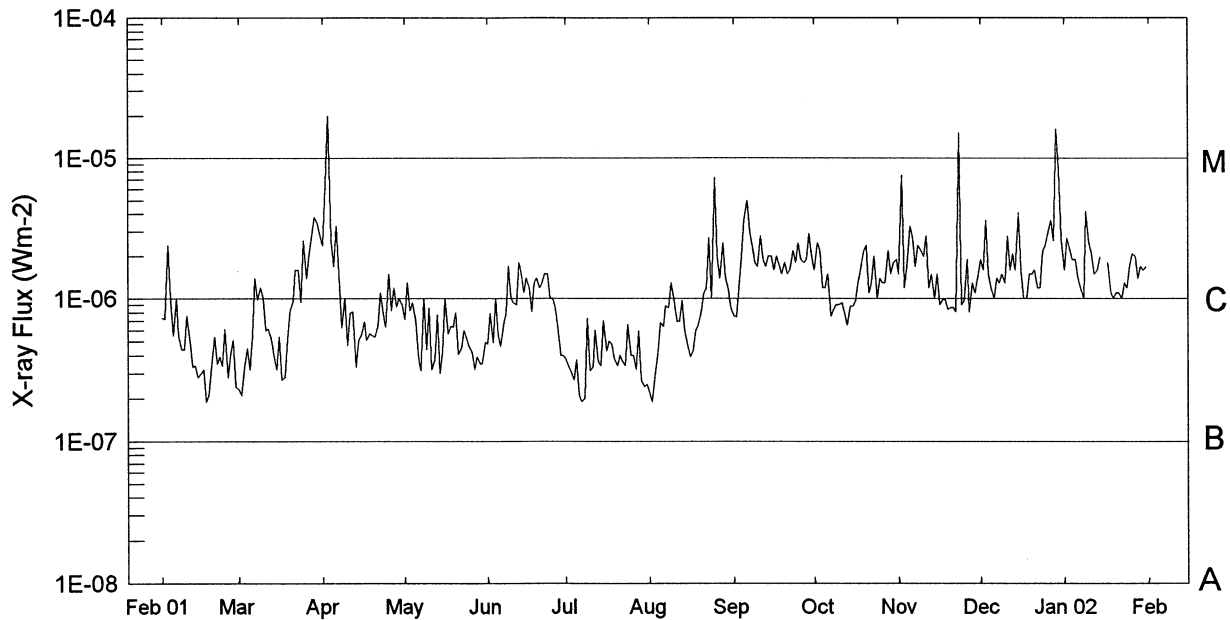
GOES SOLAR X-RAY FLARES  
 \*\*Preliminary Listing\*\*

37  
 Jan 02

January 2002

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF	
								Region	Flux
16	1502	1508	1513				C4.6	2.6E-03	
16	1525	1529	1532	S05	W83	SF	C4.1	9775	1.6E-03
16	1542	1557	1608				C5.0		0.0E+00
16	1652	1655	1658	S07	W88	SF	C4.3	9775	1.3E-03
16	1750	1756	1801	N15	W89	SN	C6.2	9773	3.0E-03
16	2000	2005	2019	N14	W79	SF	C5.8	9773	5.5E-03
16	2019	2024	2030				C9.2		5.0E-03
17	0107	0116	0124				C3.9		3.3E-03
17	0213	0216	0221	S08	W91	SF	C2.9	9775	1.3E-03
17	0306	0312	0318	S09	W78	SF	C4.2	9775	2.4E-03
17	0432	0435	0437				C3.0		8.1E-04
17	0517	0521	0525				C3.1		1.3E-03
17	1142	1146	1152				C2.5		1.3E-03
17	1208	1215	1218	S11	E23	SF	C2.4	9783	1.3E-03
18	1153	1201	1208	N18	E24	SF	C1.7		1.5E-03
18	1520	1606	1621				C2.6		7.7E-03
19	0047	0054	0101	S08	E71	SF	C4.0	9787	2.5E-03
19	0738	0752	0800				C1.3		1.6E-03
19	1000	1005	1007	S08	E64	SF	M1.2	9787	2.3E-03
19	1230	1239	1245				C1.5		1.2E-03
19	1550	1559	1604				C1.6		1.1E-03
19	1847	1852	1858				C1.7		1.0E-03
19	2005	2009	2016	N15	E42	SF	C1.8	9788	1.1E-03
19	2116	2121	2125				C1.9		9.0E-04
19	2255	2301	2308				C1.4		1.0E-03
20	1543	1552	1606	N18	E34	SF	C3.8	9788	4.5E-03
20	2307	2326	2335	N18	E28	SF	C2.8	9788	4.0E-03
21	0135	0139	0149	N18	E25	SF	C1.7	9788	1.4E-03
21	0322	0329	0338	N18	E25	SF	C3.4	9788	2.6E-03
21	0536	0539	0541	N07	W45	SF	C1.6	9785	4.3E-04
21	0741	0747	0753	N15	W20	SF	C1.7	9789	1.2E-03
21	1815	1819	1821	S03	W28	SF	C1.7	9791	5.3E-04
21	2126	2137	2144				C2.2		2.1E-03
21	2229	2233	2242	S02	W30	SF	C3.5	9791	2.0E-03
22	0252	0255	0257				C1.4		3.7E-04
22	0542	0546	0550				C1.9		8.1E-04
22	0741	0758	0826				C1.0		3.9E-03
22	0852	0900	0903	S02	W37	1N	M1.3	9791	4.6E-03
22	1119	1126	1135				C3.3		2.4E-03
22	1308	1313	1319	N17	W32	SF	C5.0	9789	2.2E-03
22	1420	1429	1434				C2.6		1.9E-03
22	1626	1631	1635	S16	E10	SF	C1.4	9793	6.4E-04
22	1808	1811	1812				C1.4		2.9E-04
22	2202	2208	2215	S24	E68	SF	C2.4		1.5E-03
22	2239	2243	2247	N12	E36	SF	C1.3	9794	6.2E-04
22	2327	2332	2342	S05	E21	SF	C1.6	9787	1.4E-03
23	0117	0121	0125				C1.9		8.7E-04
23	0316	0319	0324				C1.6		7.4E-04
23	0332	0337	0341	N11	E34	SF	C1.7	9794	8.8E-04
23	0906	0909	0912	S06	E09	SF	C1.4	9787	4.9E-04
23	0956	1000	1011	S09	W57	SF	C1.6	9783	1.3E-03
23	1332	1337	1348	N12	E29	SF	C3.7	9794	3.1E-03
23	2225	2228	2231	S08	E01	SF	C2.3	9787	6.8E-04
24	0325	0439	0706				C7.1		7.1E-02
24	1503	1509	1513				C3.7		1.9E-03
24	2040	2045	2048				C3.8		1.4E-03
25	0218	0225	0239	N13	E10	SN	C6.6	9794	6.5E-03
25	1030	1035	1055				C3.5		4.6E-03
25	1130	1133	1137				C2.6		1.0E-03
25	1815	1818	1823				C2.5		1.1E-03
25	1902	1906	1909				C4.6		1.4E-03
25	2214	2218	2224				C7.5		2.9E-03
26	0001	0003	0005				C4.5		1.1E-03
26	1447	1451	1454				C2.7		1.0E-03
26	1926	2005	2034	S15	E78	SF	M1.3	9802	3.7E-02
26	2224	2228	2234	N19	W57	SF	C6.2	9788	3.3E-03
26	2358	0006	0014				C4.3		3.8E-03
27	1718	1723	1728	S07	W48	SF	C2.7	9787	1.4E-03
28	0300	0310	0327	N19	W71	SF	C9.6	9788	1.2E-02
28	1105	1110	1116				C4.6		2.7E-03
28	1749	1754	1759				C8.1	9800	3.3E-03
28	2234	2237	2242	N05	E20	SF	C2.6	9800	1.1E-03
28	2342	2349	2353				C9.6		3.9E-03
29	0420	0424	0443	N05	E17	SF	C3.6	9800	4.2E-03
29	0842	0848	0854	N05	E15	1F	C7.3	9800	3.5E-03
29	1013	1028	1037				C4.0	9800	4.9E-03
29	1216	1220	1224				C3.6		1.5E-03
29	1249	1255	1323	N05	E15	SF	C5.8	9800	9.6E-03
29	2127	2236	2254				C3.1		1.4E-02
30	0113	0117	0121				C2.9		1.2E-03
30	0231	0240	0251	S17	E36	SF	C3.6	9802	3.8E-03
30	1159	1225	1238				C3.3		5.8E-03
30	1333	1337	1339				C2.4		7.3E-04
30	1637	1639	1640				C7.4		7.4E-04
30	1738	1741	1743				C3.3		8.7E-04
30	2151	2157	2217				C2.8		3.9E-03
31	1007	1012	1017	S16	E18	SF	C3.3	9802	1.6E-03
31	1153	1204	1229	S02	W55	SF	C2.2	9798	4.3E-03
31	1420	1425	1435	N06	W14	SF	C4.3	9800	3.0E-03
31	1436	1444	1450				M3.6		1.9E-02
31	1520	1525	1537	S15	E12	SF	C4.6	9802	3.9E-03
31	1640	1647	1655	N06	W14	SF	C4.9	9800	3.6E-03

## Preliminary GOES Satellite Daily X-Ray Background Feb 2001 - Jan 2002



Day	Feb 01	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 02
1	B7.3	B2.3	C2.4	B7.1	B4.8	B3.8	B2.2	B7.5	C1.6	C1.5	C1.9	C1.6
2	B7.2	B2.1	C6.5	C1.3	B7.9	B3.4	B1.9	B7.4	C2.5	C7.5	C1.6	C2.7
3	C2.4	B3.2	M2.0	B8.2	B4.9	B3.1	B3.0	C1.2	C2.2	C1.2	C3.6	C2.3
4	B9.8	B4.5	C2.6	B9.3	C1.0	B2.7	B4.1	C2.0	C1.2	C1.7	C1.5	C1.9
5	B5.5	B3.2	C1.7	B7.1	B5.6	B3.7	B6.8	C3.7	C1.2	C3.3	C1.2	C1.9
6	C1.0	B5.5	C3.3	B4.0	B4.6	B2.1	B6.4	C5.0	C1.5	C2.7	C1.0	C1.4
7	B5.5	C1.4	C1.5	B3.1	B6.6	B1.9	B8.9	C3.0	B7.5	C1.7	C1.4	C1.2
8	B4.4	B9.8	B6.2	C1.0	B7.9	B2.0	B8.7	C2.4	B8.4	C2.4	C1.3	C1.0
9	B4.4	C1.2	C1.0	B4.4	C1.7	B7.3	C1.3	C1.8	B9.1	C2.2	C1.5	C4.2
10	B7.6	C1.0	B4.7	B8.6	C1.0	B3.1	C1.0	C1.7	B9.0	C2.0	C1.3	C2.5
11	B5.0	B6.0	B7.9	B3.2	B9.3	B3.3	B6.9	C2.8	B9.3	C2.8	C2.8	C2.1
12	B3.3	B6.1	B8.1	B3.7	B9.0	B6.0	B6.9	C1.9	B8.0	C1.2	C1.6	C1.5
13	B3.4	B5.1	B3.3	B7.7	C1.8	B3.6	B9.7	C1.7	B6.5	C1.5	C2.1	C1.6
14	B2.8	B3.9	B5.1	B3.0	C1.5	B3.4	B5.9	C2.0	B8.9	C1.0	C1.6	C2.0
15	B3.0	B3.2	B5.5	B4.2	C1.1	B7.0	B4.8	C2.0	B8.9	C1.5	C4.1	*
16	B3.2	B5.4	B6.9	C1.0	C1.4	B4.3	B3.9	C1.6	B9.5	B9.1	C1.6	*
17	B1.9	B2.7	B5.1	B5.7	C1.2	B5.0	B4.3	C2.0	C1.3	B9.8	C1.0	C1.8
18	B2.1	B2.8	B5.7	B6.4	B8.1	B4.8	B5.9	C1.7	C1.6	B9.9	C1.0	C1.1
19	B3.3	B5.2	B5.5	B6.3	C1.3	B3.8	B6.5	C1.5	C2.2	B8.4	C1.5	C1.0
20	B5.4	B8.2	B5.4	B8.0	C1.4	B3.4	B8.1	C1.8	C2.4	B8.7	C1.5	C1.1
21	B3.5	B9.6	B6.4	B4.1	C1.2	B4.0	C1.1	C1.5	C1.1	B8.7	C1.6	C1.1
22	B3.9	C1.6	C1.1	B4.5	C1.3	B3.6	C1.2	C1.6	C1.3	B8.1	C1.2	C1.0
23	B3.4	C1.6	B8.1	B6.0	C1.5	B3.4	C2.7	C2.2	C2.0	M1.5	C1.2	C1.3
24	B6.1	B9.4	B6.3	B5.3	C1.5	B6.6	C1.0	C1.8	C1.0	B9.0	C2.2	C1.2
25	B2.8	C2.6	C1.5	B4.6	C1.0	B4.0	C7.2	C2.5	C1.4	B9.6	C2.4	C1.7
26	B4.1	C1.4	B8.2	B4.2	C1.0	B4.0	C2.0	C1.9	C1.3	C1.9	C2.9	C2.1
27	B5.1	C2.1	C1.2	B3.2	B8.8	B3.2	C1.4	C1.8	C1.3	B8.1	C3.6	C2.0
28	B2.4	C2.8	B8.8	B3.9	B6.5	B5.9	C2.5	C1.9	C2.2	C1.3	C2.6	C1.4
29		C3.8	C1.0	B3.5	B4.0	B2.7	C1.4	C2.9	C1.5	C1.1	M1.6	C1.7
30		C3.4	B9.0	B3.5	B4.0	B2.4	C1.2	C2.0	C1.8	C1.4	C8.4	C1.6
31		C2.8		B4.9		B2.5	B8.7		C1.9		C2.7	C1.7

NOTE: \* = Data not available.



ACTIVE PROMINENCES AND FILAMENTS

39  
Jan 02

JANUARY 2002

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
04	EPL	0931E	1000	N38	E87	01	11.4	1		9	8	E	LEAR		
08	DSF	1003U	2256U	N27	W36	01	5.6		41	0	0	E	LEAR		
14	DSF	2030U	1145U	N21	E00	01	14.8		15	0	0	E	RAMY		
16	DSF	1016U	2259U	N05	W18	01	15.1		12	0	0	E	LEAR		
16	DSF	2221U	1535U	N11	W07	01	16.4		07	0	0	E	HOLL		
18	DSF	1029U	2253U	N34	E29	01	20.7	2		0	0	E	LEAR		
18	DSF	1029U	2253U	N34	E29	01	20.7	2		0	0	E	LEAR		
18	DSF	1459U	1135U	N30	E13	01	19.6		40	0	0	E	SVTO		
18	DSF	1701U	1133U	N32	E27	01	20.8		34	0	0	E	RAMY		
19	DSF	1029U	2253U	N34	E29	01	21.7	2		0	0	E	LEAR		
19	DSF	1459U	1135U	N30	E13	01	20.6		40	0	0	E	SVTO		
22	DSF	1349U	0825U	N12	W06	01	22.1		08	0	0	E	SVTO		
22	DSF	2006U	1145U	N13	W10	01	22.1		07	0	0	E	RAMY		
23	DSF	1026U	2234U	N11	E23	01	25.2		08	0	0	E	LEAR		
23	DSF	1444U	0720U	N18	E28	01	25.7		13	0	0	E	SVTO		
23	DSF	2031U	1402U	S52	E31	01	26.5		12	0	0	E	RAMY		
26	DSF	1030U	2303U	N33	W33	01	23.8		10	0	0	E	LEAR		
26	DSF	1439U	0711U	N36	W32	01	24.0		08	0	0	E	SVTO		
27	DSF	0959U	0110U	N11	W13	01	26.4		07	0	0	E	LEAR 9794		
27	DSF	2116U	1318U	S29	E18	01	29.3		25	0	0	E	RAMY		
28	DSF	1025U	2325U	N34	E30	01	30.8		26	0	0	E	LEAR		
28	DSF	2352U	1451U	S39	E39	02	1.1		16	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.

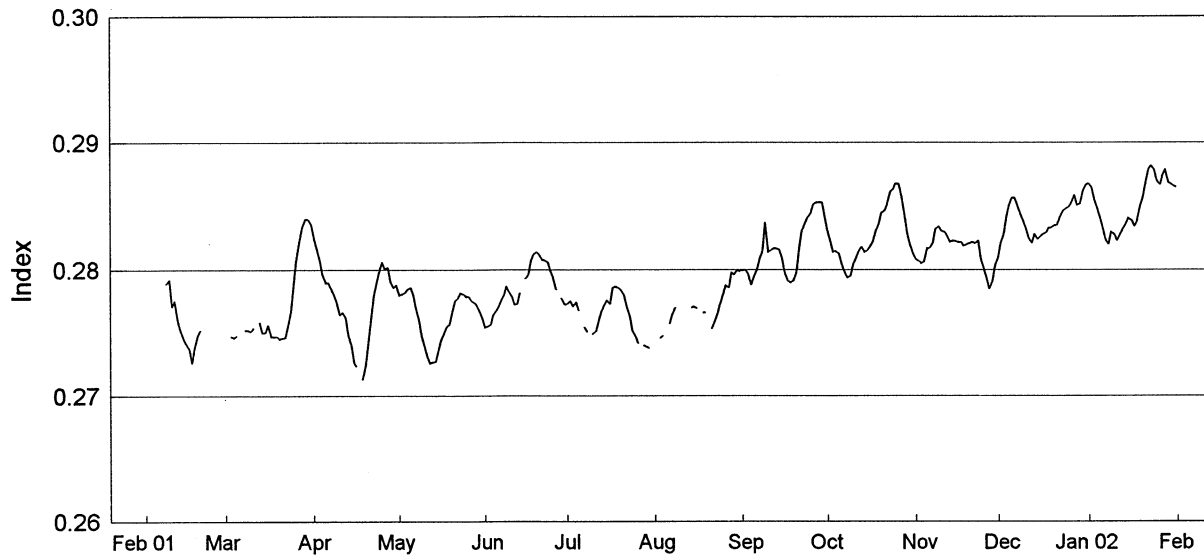
Observation Type: C= Cinematographic, E= Electronic, P= Photographic, V= Visual.

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

Feb 2001 - Jan 2002  
Version 9.1



Day	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 02
1	----	0.2740	0.2826	0.2780	0.2754	0.2773	0.2738	0.2800	0.2831	0.2809	0.2821	0.2868
2	----	----	0.2816	0.2781	0.2755	0.2775	----	0.2800	0.2822	0.2807	0.2828	0.2865
3	----	0.2747	0.2808	0.2782	0.2756	0.2771	0.2746	0.2797	0.2814	0.2805	0.2841	0.2855
4	----	0.2746	0.2797	0.2785	0.2764	0.2774	0.2748	0.2788	0.2815	0.2806	0.2850	0.2849
5	----	0.2748	0.2790	0.2786	0.2767	0.2767	----	0.2794	0.2813	0.2817	0.2857	0.2841
6	----	----	0.2790	0.2780	0.2770	----	0.2757	0.2800	0.2805	0.2817	0.2857	0.2833
7	----	----	0.2786	0.2769	0.2775	0.2754	0.2764	0.2808	0.2798	0.2821	0.2851	0.2824
8	0.2789	0.2752	0.2780	0.2760	0.2780	0.2750	0.2770	0.2815	0.2794	0.2832	0.2844	0.2820
9	0.2792	0.2752	0.2774	0.2747	0.2787	----	----	0.2837	0.2795	0.2834	0.2839	0.2830
10	0.2771	0.2751	0.2764	0.2740	0.2783	0.2749	----	0.2814	0.2804	0.2831	0.2832	0.2828
11	0.2775	0.2754	0.2766	0.2731	0.2779	0.2751	----	0.2815	0.2810	0.2830	0.2825	0.2823
12	0.2759	----	0.2762	0.2726	0.2773	0.2759	----	0.2817	0.2815	0.2827	0.2821	0.2828
13	0.2752	0.2758	0.2748	0.2727	0.2773	0.2766	----	0.2817	0.2818	0.2822	0.2828	0.2832
14	0.2745	0.2750	0.2740	0.2727	0.2782	0.2772	0.2770	0.2816	0.2814	0.2823	0.2824	0.2836
15	0.2741	0.2750	0.2726	0.2737	----	0.2776	0.2771	0.2810	0.2815	0.2823	0.2826	0.2841
16	0.2737	0.2756	0.2723	0.2745	0.2793	0.2773	0.2769	0.2797	0.2818	0.2822	0.2828	0.2839
17	0.2726	0.2747	----	0.2749	0.2796	0.2786	----	0.2792	0.2823	0.2822	0.2829	0.2834
18	0.2738	0.2747	0.2713	0.2755	0.2807	0.2787	0.2766	0.2790	0.2830	0.2819	0.2833	0.2838
19	0.2748	0.2747	0.2724	0.2756	0.2812	0.2786	0.2766	0.2791	0.2836	0.2820	0.2833	0.2850
20	0.2752	0.2745	0.2741	0.2767	0.2814	0.2784	----	0.2798	0.2845	0.2821	0.2835	0.2856
21	----	0.2746	0.2763	0.2775	0.2812	0.2780	0.2753	0.2816	0.2846	0.2822	0.2835	0.2867
22	----	0.2746	0.2780	0.2777	0.2808	0.2771	0.2758	0.2830	0.2851	0.2821	0.2842	0.2879
23	0.2768	0.2755	0.2789	0.2782	0.2808	0.2763	0.2765	0.2836	0.2862	0.2823	0.2846	0.2882
24	----	0.2768	0.2800	0.2781	0.2806	0.2751	0.2773	0.2841	0.2863	0.2808	0.2848	0.2879
25	----	0.2789	0.2806	0.2779	0.2799	0.2747	0.2781	0.2844	0.2868	0.2802	0.2849	0.2870
26	----	0.2808	0.2801	0.2779	0.2794	0.2741	0.2788	0.2851	0.2868	0.2793	0.2853	0.2867
27	----	0.2823	0.2802	0.2776	0.2784	----	0.2786	0.2853	0.2859	0.2785	0.2859	0.2875
28	----	0.2833	0.2791	0.2774	----	0.2740	0.2798	0.2853	0.2844	0.2791	0.2851	0.2879
29	----	0.2840	0.2786	0.2772	0.2777	0.2739	0.2796	0.2853	0.2829	0.2803	0.2852	0.2869
30	----	0.2840	0.2788	0.2767	0.2773	0.2738	0.2800	0.2842	0.2819	0.2810	0.2861	0.2868
31	----	0.2836	----	0.2762	----	----	0.2799	----	0.2813	----	0.2867	0.2866
Mean	0.2757	0.2769	0.2775	0.2763	0.2785	0.2764	0.2771	0.2817	0.2827	0.2816	0.2841	0.2851

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