

AUGUST 2002 NUMBER 696 - Part II



Solar-Geophysical Data comprehensive reports

Data for February 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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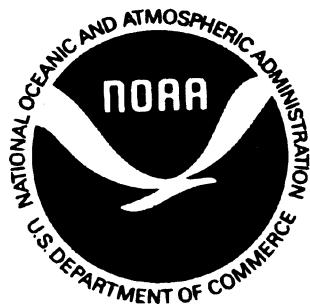
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NATIONAL OCEANIC AND
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NATIONAL ENVIRONMENTAL SATELLITE,
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NATIONAL GEOPHYSICAL
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BOULDER,
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Data for February 2002 and Late Data

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Boulder, Colorado

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SOLAR-GEOPHYSICAL DATA

Number 696

(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	DEC 01	JAN 02	FEB	MAR	APR	MAY	JUN	JUL
A. SOLAR AND INTERPLANETARY									
A.1	Sunspot Drawings	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	
A.2aa	International Provisional Sunspot Numbers	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27
A.2c	American Sunspot Numbers	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27
A.3a	Mt. Wilson Magnetograms	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	
A.3b	Sunspot Mag Class and Regions	690A 98	691A 90	692A 86	693A 91	694A 91	695A 86	696A100	
A.3c	Kitt Peak Magnetograms	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	
A.3d	Mean Solar Magnetic Field (Stanford)	689A 45	690A 43	691A 41	692A 39	693A 41	694A 41	695A 35	696A 43
A.3e	Stanford Magnetograms	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	
A.4	H-alpha Filtergrams	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	
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	690A 48	691A 44	692A 44	693A 44	694A 46	695A 38	696A 48	
A.6d	Kitt Peak Solar Mag Field Synoptic Maps								
A.6f	Active Prominences and Filaments	694B 50	695B 39	696B 41					
A.6g	Sac Peak Coronal Line Synoptic Maps	690A 50	691A 46	692A 46	693A 46	694A 48	695A 40	696A 50	
A.6h	Photometric White Light (San Fernando)	Jul-Dec 96 630B 32; 1997-1998 in 663B 51							
A.7h	Coronal Line Emission (Sac Peak)	690A 54	691A 50	692A 50	693A 50	694A 52	695A 44	696A 60	
A.7j	Coronal Hole Daily Maps (NSO/KP)	690A 89	691A 81	692A 78	693A 81	694A 82	695A 75	696A 90	
A.7k	Coronal Index (Slovak Academy)	1939-1996 in 644B 28							
A.7m	Coronal Mass Ejections (CSPSW)	694A 52							
A.8aa	2800 MHz- Solar Flux (Penticton)	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27
A.8ac	2800 MHz- Adj. Solar Flux (Penticton)	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27
A.8g	Adjusted Daily Solar Fluxes (Learmonth)	689A 29	690A 30	691A 27	692A 28	693A 27	694A 28	695A 26	696A 27
A.10g	Nancay Radioheliograph - 164&327 MHz	690A145	691A130	692A137	693A137	694A147	695A143	696A152	
A.10h	Nobeyama Radioheliograph Maps - 17 GHz	690A 92	691A 84	692A 81	693A 85	694A 86	695A 80	696A 95	
A.11g	Solar X-ray GOES (graphs/event table)	694B 41	695B 30	696B 33					
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							
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A.11o	Solar UV SUSIM (UARS)	Oct 91-Jan 97 in 629B 30							
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A.12h	Interplanetary Particles (SAMPEX)	Jul 95-Dec 96 in 632B 22; Jan-Dec 97 in 647B 33							
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A.16d	UARS Solar Irradiance	Oct 91-May 2001 684B 26 - Complete Mission							
A.16e	VIRGO/SOHO Solar Irradiance	Jan 96-Sep 00 in 678B 46							
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C.1d	Flare Patrol Observations	694B 23	695B 18	696B 16					
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4
Feb 02

H α SOLAR FLARES

FEBRUARY 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)		
0001	LEAR	01	0149	0150	0154	S14	E05	9802	02	1.4	5	SF		3	E		16		F	
			01 0733		0739	No Flare Patrol														
			01 1000		1045	No Flare Patrol														
0002	KANZ	01	1148	1148	1152	S15	E00	9802	02	1.5	4	SF		2	E					
0003	RAMY	01	1453	1453	1456	N06	W28	9800	01	30.6	3	SF		3	E		14		F	
0004	HOLL	01	1818	1818	1821	N03	W32	9800	01	30.5	3	SF		3	E		23		F	
0005	HOLL	01	1818	1818	1821	S15	W04	9802	02	1.4	3	SF		3	E		14		F	
			01 2026		2034	No Flare Patrol														
0006		01	2112	2114	2130	N05	W31	9800	01	30.7	18	SF					40		F	
	RAMY	01	2112E	2112U	2118D	N05	W31	9800	01	30.7	6D	SF		3	E		11			
	HOLL	01	2112	2114	2130	N05	W31	9800	01	30.7	18	SF		3	E		69		F	
			01 2306		2311	No Flare Patrol														
0007	KANZ	02	1134	1135	1137	S14	W13	9802	02	1.5	3	SF		2	E					
0008	RAMY	02	1535	1535	1541	S18	W13	9802	02	1.6	6	SF		3	E		23		F	
0009	RAMY	02	2000	2004	2018	S19	W16	9802	02	1.6	18	SF		3	E		40		F	
			02 2047		2106	No Flare Patrol														
			02 2110		2327	No Flare Patrol														
0010	LEAR	03	0231	0232	0234	S27	E34	9807	02	5.7	3	SF		3	E		14			
0011	LEAR	03	0306	0306	0308	S19	W17	9802	02	1.8	2	SF		3	E		11		F	
0012	LEAR	03	0548	0552	0559	S27	E32	9807	02	5.7	11	SF		3	E		42		F	
0013		03	12591	13001	1307	N16	E19	9808	02	5.0	8	SF					13			
	KANZ	03	1259	1300	1308	N17	E18	9808	02	4.9	9	SF		2	E					
	RAMY	03	1300	1301	1306	N15	E20	9808	02	5.0	6	SF		3	E		13			
0014	RAMY	03	1509	1514	1543	S17	W27	9802	02	1.6	34	SF		3	E		88		F	
0015	RAMY	03	1851	1852	1858	S26	E25	9807	02	5.7	7	SF		3	E		22			
			03 1929		2302	No Flare Patrol														
0016		04	01511	02001	0222	S04	W42	9801	01	31.9	31	3F					1000	2.5	,FH	
	MITK	04	0151	0201	0229	S04	W42	9801	01	31.9	38	4F			C	0201	1822	2.5	F,H	
	LEAR	04	0152	0200	0214	S03	W42	9801	01	31.9	22	1F		3	E		177		F	
0017	LEAR	04	0211	0211	0213	S18	W36	9802	02	1.3	2	SF		3	E		26		FH	
0018	LEAR	04	0435	0438	0443	S13	W20	9816	02	2.7	8	SF		3	E		10		F	
0019	LEAR	04	0529	0530	0535	S14	W22	9816	02	2.6	6	SF		3	E		11		F	
			04 0535		0555	No Flare Patrol														
0020	MITK	04	0603	0604	0604	S07	E30	9809	02	6.5	1	3F			C	0604	1940	2.3	,BU	
			04 0604		0714	No Flare Patrol														
0021	LEAR	04	0738E	0738U	0742D	S08	E18	9809	02	5.7	4D	1F		2	E		249			
			04 0803		0834	No Flare Patrol														
0022		04	1007	1023	1044	S14	W26	9802	02	2.4	37	SF					23			
	KANZ	04	1007	1023	1044	S14	W26	9802	02	2.4	37	SF		2	E					
	SVTO	04	1029E	1029U	1046D	S13	W25	9802	02	2.5	17D	SF		2	E		23			

FEBRUARY 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)		
			04 1529		1602			No Flare Patrol												
			04 1741		1756			No Flare Patrol												
0023	RAMY	04	1900	1903	1946	S13	W31	9802	02	2.4	46	SF		3	E		33			F
			04 1918		1928			No Flare Patrol												
			04 1936		1945			No Flare Patrol												
			04 2029		2045			No Flare Patrol												
			04 2149		2231			No Flare Patrol												
0024	LEAR	04	2329E	2334U	2337	S13	W42	9802	02	1.8	8D	SF		2	E		56			F
0025		05	08233	08272	0839	S16	W37	9816	02	2.5	16	SF					16			F
	KANZ	05	0823	0827	0843	S15	W37	9816	02	2.5	20	SF		2	E					F
	LEAR	05	0826	0829	0835	S16	W37	9816	02	2.5	9	SF		3	E		16			F
0026		05	1150	11501	1156	S06	E14	9809	02	6.5	6	SF					12			F
	SVTO	05	1150	1150	1154	S07	E15	9809	02	6.6	4	SF		3	E		12			F
	KANZ	05	1150	1151	1158	S06	E14	9809	02	6.5	8	SF		2	E					
0027		05	1158	11581	1204	S12	W37	9816	02	2.7	6	SF					13			H
	SVTO	05	1158	1158	1203	S11	W37	9816	02	2.7	5	SF		3	E		13			H
	KANZ	05	1158	1159	1205	S12	W37	9816	02	2.7	7	SF		2	E					
0028		05	2006	20089	2109	S10	E08	9809	02	6.4	63	1F					166			FH
	RAMY	05	2006	2008	2102	S10	E08	9809	02	6.4	56	1F		3	E		102			FH
	HOLL	05	2006	2017	2116	S10	E07	9809	02	6.4	70	1F		3	E		231			FH
0029	HOLL	05	2045	2048	2052	S23	W74	9804	01	31.2	7	SF		3	E		32			F
0030	HOLL	05	2218	2236	2308	N17	W09	9808	02	5.2	50	SF		3	E		33			
		05	2253		2257			No Flare Patrol												
		05	2301		2306			No Flare Patrol												
		05	2330		2400			No Flare Patrol												
		06	0000		0005			No Flare Patrol												
		06	0015		0025			No Flare Patrol												
		06	0201		0212			No Flare Patrol												
0031		06	0437	0440	0451	S16	W48	9816	02	2.5	14	1N					264	7.1		F
	LEAR	06	0437	0440	0451	S17	W48	9816	02	2.5	14	SF		3	E		66			F
	MITK	06	0437	0440	0451	S15	W48	9816	02	2.5	14	2N			C	0440	461	7.1		F
0032	LEAR	06	0451	0509	0514	S17	W50	9816	02	2.4	23	SF		3	E		48			F
0033		06	0608	06091	0630	S23	E43	9811	02	9.6	22	1N					188	4.0		F
	LEAR	06	0608	0609	0633	S22	E44	9811	02	9.6	25	SF		3	E		96			F
	MITK	06	0608	0610	0626	S24	E42	9811	02	9.5	18	1B			C	0610	279	4.0		
		06	0832		0916			No Flare Patrol												
		06	0931		0943			No Flare Patrol												
		06	1010		1020			No Flare Patrol												
		06	1026		1040			No Flare Patrol												
		06	1105		1119			No Flare Patrol												
		06	1130		1223			No Flare Patrol												
		06	1323		1343			No Flare Patrol												
		06	1402		1406			No Flare Patrol												
		06	1444		1452			No Flare Patrol												
0034		06	17063	17103	1724	S11	W54	9816	02	2.6	18	SF					16			F
	RAMY	06	1706	1713	1726	S11	W54	9816	02	2.6	20	SF		3	E		15			F
	HOLL	06	1709	1710	1723	S11	W53	9816	02	2.7	14	SF		3	E		16			
0035		06	1930	19334	2002	S26	E34	9811	02	9.4	32	SF					88			F
	RAMY	06	1930	1933	2002	S27	E34	9811	02	9.5	32	SF		3	E		87			F
	HOLL	06	1930	1937	2002	S25	E34	9811	02	9.4	32	SF		3	E		88			F
0036		06	20121	20131	2028	N12	E30	9815	02	9.1	16	SF					68			F
	HOLL	06	2012	2013	2030	N12	E31	9815	02	9.2	18	SF		3	E		80			F
	RAMY	06	2013	2014	2025	N11	E30	9815	02	9.1	12	SF		3	E		57			

FEBRUARY 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	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0037	HOLL	06	2024	2024	2035	S09	W03	9809	02	6.6	11	SF		3	E		11		
0038	LEAR	07	0054	0056	0102	S14	W60	9816	02	2.5	8	SF		3	E		32		F
		07	0248		0419			No Flare Patrol											
		07	0536		0555			No Flare Patrol											
		07	0604		0658			No Flare Patrol											
		07	0730		0747			No Flare Patrol											
		07	0812		0834			No Flare Patrol											
		07	0843		1119			No Flare Patrol											
0039	RAMY	07	1206	1207	1214	S12	W79	9802	02	1.5	8	SF		3	E		14		F
0040	HOLL	07	2005	2006	2008	S10	W69	9816	02	2.6	3	SF		3	E		18		F
		08	0853		0901			No Flare Patrol											
		08	1033		1126			No Flare Patrol											
		08	2136		2241			No Flare Patrol											
0041		09	0813	0813	0824	N16	E71	9822	02	14.7	11	SF					41		F
	KANZ	09	0813E	0813U	0818D	N16	E70	9822	02	14.6	5D	SF	2	E					
	SVTO	09	0813	0813	0824	N15	E72	9822	02	14.8	11	SF	3	E			41		F
0042		09	09291	0930	0946	S14	E11	9821	02	10.2	17	SF					30		F
	KANZ	09	0929	0930	0947	S13	E11	9821	02	10.2	18	SF	2	E					
	LEAR	09	0930	0930	0946	S14	E13	9821	02	10.4	16	SF	3	E			24		F
	SVTO	09	0935E	0937U	0948D	S15	E10	9821	02	10.1	13D	SF	3	E			35		F
0043	KANZ	09	1406	1406	1409	S13	E02	9821	02	9.7	3	SF		2	E				
0044		09	14282	1430	1442	N12	E67	9825	02	14.6	14	SF					74		
	KANZ	09	1428	1430	1443	N15	E67	9825	02	14.7	15	SF	2	E					
	SVTO	09	1430	1434U	1441	N10	E67	9825	02	14.6	11	SF	3	E			74		
0045	HOLL	09	1942	1943	1949	S25	W07	9811	02	9.3	7	SF		3	E		20		
0046	HOLL	09	2058	2058	2103	S14	E04	9821	02	10.2	5	SF		3	E		13		F
0047	HOLL	09	2335	2337	2341	N12	E65	9825	02	14.9	6	SF		3	E		11		
0048	HOLL	09	2341	2342	2342D	S14	E01	9821	02	10.1	1D	SF		3	E		17		
0049	LEAR	10	0113	0115	0118	S14	E01	9821	02	10.1	5	SF		3	E		28		F
0050	KANZ	10	1133	1135	1140	N16	E44	9822	02	13.8	7	SF		2	E				
0051	SVTO	10	1247	1249	1255	S25	W12	9811	02	9.6	8	SF		3	E		13		F
0052	KANZ	10	1257	1257	1305	S04	E13	9823	02	11.5	8	SF		2	E				
0053		10	1605	16051	1610	S28	W14	9811	02	9.6	5	SF					12		F
	RAMY	10	1605	1605	1610	S28	W14	9811	02	9.6	5	SF	3	E			13		F
	HOLL	10	1605	1606	1610	S28	W14	9811	02	9.6	5	SF	3	E			11		
0054		10	17292	1732	1737	S12	W08	9821	02	10.1	8	SF					26		F
	HOLL	10	1729	1732	1739	S12	W08	9821	02	10.1	10	SF	3	E			33		F
	RAMY	10	1731	1732	1735	S13	W08	9821	02	10.1	4	SF	3	E			19		F
0055		10	1844	18444	1956	S25	W16	9811	02	9.5	72	2F					179		F
	RAMY	10	1844	1844	1957	S25	W16	9811	02	9.5	73	1F	3	E			107		F
	HOLL	10	1844	1848	1956	S25	W15	9811	02	9.6	72	2F	3	E			251		F
0056		10	19191	1923	1954	N08	E52	9825	02	14.7	35	1F					105		
	HOLL	10	1919	1923	1952	N08	E52	9825	02	14.7	33	1F	3	E			117		
	RAMY	10	1920	1923	1957	N07	E52	9825	02	14.7	37	SF	3	E			93		
0057		10	20081	20101	2019	S13	W09	9821	02	10.1	11	SF					29		F
	HOLL	10	2008	2011	2019	S13	W10	9821	02	10.1	11	SF	3	E			38		
	RAMY	10	2009	2010	2019	S13	W08	9821	02	10.2	10	SF	3	E			20		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	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)	
0058		10	2346	2347	2350	S14 W12	9821	02	10.1	4	SF				28		F
	LEAR	10	2346	2347	2349	S14 W12	9821	02	10.1	3	SF	3	E		23		
	HOLL	10	2346	2347	2352	S14 W12	9821	02	10.1	6	SF	3	E		33		F
0059		11	00463	00501	0056	S12 W12	9821	02	10.1	10	SN				57	1.0	EF
	MITK	11	0046	0050	0056	S13 W13	9821	02	10.0	10	SN		C	0050	99	1.0	E
	LEAR	11	0049	0051	0057	S12 W11	9821	02	10.2	8	SF	3	E		15		F
0060	MITK	11	0204	0205	0207	S13 W12	9821	02	10.2	3	SN		C	0205	113	1.2	D
0061	LEAR	11	0303	0303	0312	S13 W13	9821	02	10.1	9	SF	3	E		19		F
0062		11	0313*	03301	0346	S14 W13	9821	02	10.1	33	SN				102	1.6	FH
	LEAR	11	0313	0330	0352	S14 W12	9821	02	10.2	39	SF	3	E		51		FH
	MITK	11	0329	0331	0340	S13 W14	9821	02	10.1	11	SN		C	0331	153	1.6	F
0063	MITK	11	0319	0319	0332	S14 W14	9821	02	10.1	13	1N		C	0319	253	2.7	F
0064	LEAR	11	0453	0453	0506	S13 W15	9821	02	10.1	13	SF	3	E		10		
0065	LEAR	11	0720	0722	0728	N16 E45	9825	02	14.7	8	SF	3	E		25		F
		11	09247	09257	0942	N16 E34	9822	02	14.0	18	SF				16		F
	LEAR	11	0924	0925	0940	N17 E34	9822	02	14.0	16	SF	3	E		18		F
	KANZ	11	0925	0925	0945	N16 E33	9822	02	13.9	20	SF	2	E				
	SVTO	11	0931	0932	0934D	N15 E36	9822	02	14.1	3D	SF	3	E		15		F
0067	KANZ	11	0933	0936U	0945	N11 W45	9810	02	8.0	12	SF	2	E				
0068		11	13521	13542	1408	S13 W20	9821	02	10.1	16	SF				14		F
	SVTO	11	1352	1354	1408	S13 W22	9821	02	9.9	16	SF	3	E		13		F
	RAMY	11	1353	1356	1407	S13 W19	9821	02	10.1	14	SF	3	E		16		F
0069	HOLL	11	2143	2143	2149	N10 E48	9825	02	15.5	6	SF	3	E		15		
0070	HOLL	11	2255	2258	2306	N14 E37	9825	02	14.7	11	SF	3	E		26		FU
0071		12	0252	02591	0332	S14 W28	9821	02	10.0	40	SN				104	1.8	DF
	LEAR	12	0252	0259	0335	S13 W30	9821	02	9.8	43	SF	3	E		55		F
	MITK	12	0252	0300	0328	S14 W27	9821	02	10.1	36	SB		C	0300	152	1.8	D
0072	MITK	12	0643	0646	0657	S14 W29	9821	02	10.1	14	SN		C	0646	105	1.2	D
0073		12	08511	08521	0910	N12 E39	9825	02	15.3	19	SF				16		F
	KANZ	12	0851	0852	0911	N12 E38	9825	02	15.2	20	SF	2	E				
	SVTO	12	0852	0853	0909	N11 E40	9825	02	15.4	17	SF	3	E		16		F
0074	LEAR	12	0852	0858	0900	N09 E28	9825	02	14.5	8	SF	2	E		28		F
0075		12	0951	0953	1002	S26 W38	9811	02	9.4	11	SF				23		F
	KANZ	12	0951	0953	0959	S26 W38	9811	02	9.4	8	SF	2	E				
	SVTO	12	0951	0953	1004	S27 W38	9811	02	9.4	13	SF	3	E		23		F
0076		12	1031	10314	1044	S13 W33	9821	02	9.9	13	SF				10		F
	SVTO	12	1031	1031	1043	S13 W33	9821	02	9.9	12	SF	3	E		10		F
	KANZ	12	1031	1035	1044	S13 W33	9821	02	9.9	13	SF	2	E				
0077		12	11181	11203	1130	N15 E32	9825	02	14.9	12	SF				12		
	KANZ	12	1118	1120	1129	N15 E31	9825	02	14.8	11	SF	2	E				
	SVTO	12	1119	1123	1132	N15 E32	9825	02	14.9	13	SF	3	E		12		
0078		12	12323	12355	1257	N13 E28	9825	02	14.6	25	SF				48		F
	SVTO	12	1232	1240	1256	N13 E27	9825	02	14.5	24	SF	3	E		82		F
	RAMY	12	1235	1235	1258	N13 E28	9825	02	14.6	23	SF	3	E		13		F
0079	KANZ	12	1233	1241	1257	N15 E28	9822	02	14.6	24	SF	2	E				
0080	SVTO	12	1236	1238	1247	S26 W38	9811	02	9.6	11	SF	3	E		12		

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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	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0081	SVTO	12	1316	1316	1322	N17	E29	9825	02	14.7	6	SF		3	E		11		
0082		12	14247	1438	1544	N13	E36	9825	02	15.3	80	1F					93		F
	SVTO	12	1424	1438	1543	N13	E36	9825	02	15.3	79	1F		3	E		143		F
	RAMY	12	1431	1438	1545	N13	E36	9825	02	15.3	74	SF		3	E		43		F
0083	HOLL	12	1440	1443	1557	N14	E41	9825	02	15.7	77	SF		3	E		61		FH
0084		12	15501	15511	1600	S12	W36	9821	02	9.9	10	SF					12		
	RAMY	12	1550	1552	1601	S12	W35	9821	02	10.0	11	SF		3	E		13		
	HOLL	12	1551	1551	1558	S13	W36	9821	02	9.9	7	SF		3	E		11		
0085		12	16201	16211	1628	S25	W40	9811	02	9.6	8	SF					14		F
	RAMY	12	1620	1622	1629	S25	W41	9811	02	9.5	9	SF		3	E		10		F
	HOLL	12	1621	1621	1628	S25	W40	9811	02	9.6	7	SF		3	E		17		F
0086	RAMY	12	1642	1645	1650	S13	W35	9821	02	10.0	8	SF		3	E		10		F
0087	HOLL	12	2132	2136	2151	S25	W42	9811	02	9.6	19	SF		3	E		71		F
0088	LEAR	13	0041	0047	0106	N17	E22	9825	02	14.7	25	SF		1	E		16		F
0089	LEAR	13	0124	0125U	0137	N17	E18	9822	02	14.4	13	SF		1	E		59		F
0090	LEAR	13	0125	0133	0147	N15	E20	9825	02	14.6	22	SF		2	E		43		F
0091	LEAR	13	0249	0315	0339	N11	E24	9825	02	14.9	50	SF		2	E		51		F
0092	MITK	13	0303	0305	0321	N17	E20	9822	02	14.6	18	SN			C	0312	46	0.5	D
0093	LEAR	13	0640	0642	0646	N16	E18	9825	02	14.6	6	SF		2	E		14		
0094		13	06587	07121	0758	N17	E18	9825	02	14.6	60	1N					76		FH
	LEAR	13	0658	0712	0801	N17	E18	9825	02	14.6	63	1N		2	E		101		FH
	SVTO	13	0705	0713	0754	N17	E17	9825	02	14.6	49	SF		2	E		50		F
0095	LEAR	13	0701	0712	0727	N16	E16	9822	02	14.5	26	SF		2	E		50		F
0096	KANZ	13	0741E		0759	N18	E16	9822	02	14.5	18D	1F		2	E				
0097		13	08531	0855	0910	N11	E22	9825	02	15.0	17	SF					43		F
	KANZ	13	0853	0855	0905	N11	E21	9825	02	14.9	12	SF		2	E				
	SVTO	13	0854	0855	0916	N11	E23	9825	02	15.1	22	SF		3	E		43		F
0098	KANZ	13	0856	0859	0913	N17	E14	9822	02	14.4	17	SF		2	E				
0099		13	09341	09417	1000	N17	E12	9822	02	14.3	26	SF					22		FH
	KANZ	13	0934	0941	1014	N17	E13	9822	02	14.4	40	SF		2	E				
	SVTO	13	0934	0948	0955	N18	E11	9822	02	14.2	21	SF		3	E		30		FH
	LEAR	13	0935	0947	0952	N17	E13	9822	02	14.4	17	SF		2	E		14		F
0100	SVTO	13	0942	0952	1015	N16	E17	9825	02	14.7	33	SF		3	E		27		
0101	SVTO	13	1001	1004	1014	N17	E13	9822	02	14.4	13	SF		3	E		24		
0102	SVTO	13	1330	1330	1335	N11	E20	9825	02	15.1	5	SF		3	E		13		
			13	2213		2219	No Flare Patrol												
			13	2247		2248	No Flare Patrol												
0103	LEAR	13	2333	2335	2340	N12	E14	9825	02	15.0	7	SF		2	E		19		F
0104	LEAR	14	0110	0110	0116	N15	W05	9822	02	13.7	6	SF		2	E		10		
0105	LEAR	14	0117	0118	0123	S21	W02	9826	02	13.9	6	SF		2	E		21		
0106	LEAR	14	0138	0141	0153	N18	E04	9822	02	14.4	15	1F		2	E		104		F
0107	LEAR	14	0347	0347	0355	N12	E11	9825	02	15.0	8	SF		2	E		53		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)	
0108	LEAR	14	0629	0629	0633	N16	E06	9825	02	14.7	4	SF		3	E		15		
0109	SVTO	14	0834	0834	0839	N11	E13	9825	02	15.3	5	SF		3	E		15		F
0110	SVTO	14	1008	1010	1023	N12	E08	9825	02	15.0	15	SF		2	E		29		F
		14	1031		1111	No Flare Patrol													
0111		14	1351	1354	1409	N12	E06	9825	02	15.0	18	SF					76		F
	RAMY	14	1351	1354	1409	N11	E07	9825	02	15.1	18	SF		3	E		70		F
	SVTO	14	1352	1354	1409	N12	E05	9825	02	14.9	17	SF		3	E		81		F
0112	RAMY	14	1706	1708	1713	N11	E04	9825	02	15.0	7	SF		3	E		19		F
0113	LEAR	15	0024	0025	0028	S03	E76	9829	02	20.7	4	SF		2	E		32		F
0114	LEAR	15	0156	0207	0216	N20	W12	9822	02	14.2	20	SF		2	E		35		F
0115	LEAR	15	0210	0210	0215	N09	W09	9825	02	14.4	5	SF		2	E		19		F
0116	LEAR	15	0311	0312	0415	N21	W09	9825	02	14.4	64	SF		3	E		28		F
0117	LEAR	15	0713	0714	0730	N21	W11	9825	02	14.4	17	SF		3	E		31		F
		15	1020		1158	No Flare Patrol													
0118		15	1731	1733	1740	S11	W76	9821	02	10.0	9	SF					16		
	RAMY	15	1731	1733	1742	S09	W77	9821	02	9.9	11	SF		3	E		17		
	HOLL	15	1732	1733	1739	S13	W74	9821	02	10.1	7	SF		3	E		16		
		15	1950		2216	No Flare Patrol													
		15	2233		2243	No Flare Patrol													
		16	1026		1205	No Flare Patrol													
0119	HOLL	16	2227	2228	2231	S17	E45	9830	02	20.3	4	SF		3	E		14		
0120	HOLL	16	2241	2242	2313D	S29	W68	9819	02	11.6	32D	SF		3	E		17		
		16	2251		2303	No Flare Patrol													
0121	LEAR	17	0240	0240	0243	S18	E39	9830	02	20.1	3	SF		3	E		22		FH
0122	LEAR	17	0318	0318	0326	S18	E38	9830	02	20.0	8	SF		3	E		11		F
0123	LEAR	17	0620	0624	0627	S16	E39	9830	02	20.2	7	SF		3	E		10		
0124	LEAR	17	0728	0743	0801	S17	E36	9830	02	20.0	33	SF		3	E		26		F
		17	1039		1123	No Flare Patrol													
		17	1134		1201	No Flare Patrol													
0125	RAMY	17	1452	1457	1515	S20	E34	9830	02	20.2	23	SF		3	E		27		
		17	1658		1706	No Flare Patrol													
		17	1807		1838	No Flare Patrol													
0126		17	19015	1921*	1947	S18	E31	9830	02	20.1	46	SF					42		FH
	RAMY	17	1901	1933	1948	S19	E30	9830	02	20.1	47	SF		3	E		39		F
	HOLL	17	1906	1921	1946	S18	E32	9830	02	20.2	40	SF		3	E		46		FH
		17	1903		1909	No Flare Patrol													
0127		17	2017	2021*	2032	S18	E30	9830	02	20.1	15	SF					46		F
	RAMY	17	2017	2032	2035	S19	E29	9830	02	20.0	18	SF		3	E		45		F
	HOLL	17	2018	2021	2029	S18	E30	9830	02	20.1	11	SF		3	E		47		F
0128	HOLL	17	2214	2216	2220	S17	E28	9830	02	20.0	6	SF		3	E		20		
0129	LEAR	18	0747	0757	0822	S06	E34	9829	02	20.9	35	1F		3	E		140		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
								Region	Day							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0130	KANZ	18	0815E	0815U	0824	S05	E35	9829	02	21.0	9D	SN		2	E					
0131		18	0832E	0846	0905	S19	E20	9830	02	19.9	33	SF					42			F
	KANZ	18	0832E	0844U	0854D	S19	E20	9830	02	19.9	22D	SF		2	E					
	LEAR	18	0834E	0846	0905	S19	E21	9830	02	19.9	31	SF		3	E			42		F
		18	1030		1120	No Flare Patrol														
0132	RAMY	18	1345	1345	1349	N22	W56	9822	02	14.3	4	SF		3	E			26		
0133	RAMY	18	1448	1449	1451	N20	W58	9822	02	14.2	3	SF		3	E			12		
		18	2031		2036	No Flare Patrol														
0134	RAMY	18	2046	2052	2137	S20	E16	9830	02	20.1	51	SF		3	E			39		F
		18	2208		2215	No Flare Patrol														
		18	2224		2238	No Flare Patrol														
0135	HOLL	18	2319E	2332U	2334D	S17	E14	9830	02	20.0	15D	SF		3	E			31		F
0136	LEAR	19	0046	0047	0053	S18	E13	9830	02	20.0	7	SF		3	E			11		
0137	LEAR	19	0526	0529	0532	S17	E10	9830	02	20.0	6	SF		3	E			10		F
0138	LEAR	19	0557	0557	0600	S20	E16	9830	02	20.5	3	SF		3	E			17		
0139	LEAR	19	0625	0625	0633	S20	E16	9830	02	20.5	8	SF		3	E			24		F
0140	LEAR	19	0734	0735	0738	S20	E15	9830	02	20.5	4	SF		3	E			14		F
		19	1117		1120	No Flare Patrol														
		19	1222		1228	No Flare Patrol														
		19	1230		1238	No Flare Patrol														
		19	1248		1334	No Flare Patrol														
		19	1446		1514	No Flare Patrol														
0141	HOLL	19	1601	1602	1607	N18	W66	9825	02	14.6	6	1F		3	E			141		
0142	HOLL	19	2317	2319	2323	S13	W59	9828	02	15.5	6	SF		3	E			12		
0143	HOLL	20	0001	0004	0009	S13	W59	9828	02	15.5	8	SF		3	E			44		
0144	LEAR	20	0111	0116	0131	S16	W02	9830	02	19.9	20	SF		3	E			80		F
0145	LEAR	20	0247	0254	0307	N15	W58	9825	02	15.7	20	SF		3	E			82		F
0146	LEAR	20	0555	0611	0628	N12	W72	9825	02	14.8	33	1N		3	E			114		EF
0147	LEAR	20	0632	0632	0637	S21	E02	9830	02	20.4	5	SF		3	E			19		
0148	LEAR	20	0643	0644	0647	N17	W79	9825	02	14.3	4	SF		3	E			25		F
0149		20	0743	0745	0752	N19	W82	9825	02	14.1	9	SF						42		
	SVTO	20	0743	0745	0752	N21	W83	9825	02	13.9	9	SF		3	E			38		
	LEAR	20	0743	0745	0753	N17	W81	9825	02	14.2	10	SF		3	E			47		
0150		20	0755	0757	0800	N20	W81	9825	02	14.1	5	SF						26		H
	SVTO	20	0755	0757	0759	N21	W82	9825	02	14.0	4	SF		3	E			22		
	LEAR	20	0755	0757	0801	N18	W80	9825	02	14.2	6	SF		3	E			29		H
0151	LEAR	20	1001	1001	1007	N18	W83	9825	02	14.1	6	SF		3	E			20		
0152	SVTO	20	1106	1107	1111	N15	W77	9825	02	14.6	5	SF		3	E			19		F
0153	SVTO	20	1136	1139	1144	N21	W87	9825	02	13.8	8	SF		3	E			35		
0154	SVTO	20	1410	1411	1419	S18	W08	9830	02	20.0	9	SF		3	E			26		F
		20	1604		1616	No Flare Patrol														

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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)	
0155	HOLL	20	1620	1627U	1647	S16	W12	9830	02	19.8	27	1N		3	E		203		F
0156	RAMY	20	1712	1712	1714	S09	W62	9831	02	16.1	2	SF		3	E		14		
		20	1801		1806	No Flare Patrol													
0157	HOLL	20	2103	2108	2156	S18	W11	9830	02	20.0	53	1B		3	E		247		F
0158	HOLL	20	2118	2125	2129	S08	W60	9831	02	16.4	11	SF		3	E		11		
0159	HOLL	20	2152	2159	2228	S10	W61	9835	02	16.3	36	SF		3	E		15		
0160	HOLL	20	2338	2342	2348	S16	W12	9830	02	20.1	10	SF		3	E		23		
0161	SVTO	21	0828	0839	0843	S07	W71	9835	02	16.0	15	SF		3	E		11		
		21	0900		0910	No Flare Patrol													
0162	SVTO	21	0931E	0931U	0939D	N12	W83	9825	02	15.1	8D	SF		2	E		40		
		21	1015		1016	No Flare Patrol													
		21	1019		1110	No Flare Patrol													
		21	1118		1122	No Flare Patrol													
0163	RAMY	21	1205	1207	1214	S09	W70	9835	02	16.2	9	1F		3	E		111		
		21	1215		1235	No Flare Patrol													
0164	RAMY	21	1346	1347	1351	S08	W71	9835	02	16.2	5	SF		3	E		20		
0165		21	1413	1416	1424	S10	W72	9835	02	16.2	11	SF					56		
	HOLL	21	1400E	1415U	1422D	S12	W71	9835	02	16.2	22D	SF		2	E		90		
	RAMY	21	1413	1416	1424	S08	W72	9835	02	16.2	11	SF		3	E		22		
0166		21	1648	1649	1656	S18	W22	9830	02	20.0	8	SF					42		FH
	HOLL	21	1648	1649U	1656	S18	W22	9830	02	20.0	8	SF		3	E		50		FH
	RAMY	21	1648	1649	1656	S17	W23	9830	02	19.9	8	SF		3	E		35		FH
0167		21	21011	21021	2111	S08	W73	9835	02	16.4	10	SF					27		
	HOLL	21	2101	2102	2114	S08	W71	9835	02	16.5	13	SF		3	E		33		
	RAMY	21	2102	2103	2108	S07	W75	9835	02	16.2	6	SF		3	E		21		
0168	HOLL	21	2133	2134	2138	S08	W72	9835	02	16.5	5	SF		3	E		22		
0169	HOLL	21	2349	2356	2402	S08	W73	9835	02	16.5	13	SF		3	E		59		
0170		21	23513	2358	2505	S18	W24	9830	02	20.2	74	2N					197		FU
	HOLL	21	2351	2414U	2427D	S16	W27	9830	02	19.9	36D	2N		3	E		292		F
	LEAR	21	2354	2358	2505	S20	W20	9830	02	20.5	71	1F		3	E		102		UF
0171	HOLL	21	2353	2353	2406	S06	W12	9829	02	21.1	13	SF		3	E		12		
0172		21	23542	2358	2413	S13	W16	9832	02	20.8	19	SF					40		F
	HOLL	21	2354	2358	2425	S12	W15	9832	02	20.9	31	SF		3	E		48		F
	LEAR	21	2356	2358	2401	S14	W17	9832	02	20.7	5	SF		3	E		33		F
0173	MITK	22	0008	0009	0011	S18	W23	9830	02	20.2	3	SN			C	0009	40	0.5	B
0174	LEAR	22	0801	0805	0817	S18	W30	9830	02	20.0	16	SF		3	E		13		H
0175	KANZ	22	1110	1111	1121	N09	E52	9837	02	26.4	11	SF		2	E				
0176	HOLL	22	1457	1457	1502	S20	W34	9830	02	20.0	5	SF		3	E		27		
0177		22	19351	1936	1945	N08	E48	9837	02	26.4	10	SF					32		F
	HOLL	22	1935	1936	1946	N10	E49	9837	02	26.5	11	SF		3	E		34		F
	RAMY	22	1936	1936	1944	N07	E48	9837	02	26.4	8	SF		3	E		29		F
0178	HOLL	22	2205	2208	2217	S17	W40	9830	02	19.9	12	SF		3	E		48		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	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0179	HOLL	22	2231	2235	2251	S21	W33	9830	02	20.4	20	SF		3	E		26		F
0180	HOLL	22	2240	2240	2248	N11	E47	9837	02	26.5	8	SF		3	E		22		F
0181	LEAR	23	0439	0440	0446	S16	W10	9839	02	22.4	7	SF		3	E		11		
0182	LEAR	23	0619	0625	0701	S18	W26	9841	02	21.3	42	SF		2	E		26		F
0183	SVTO	23	0649E	0649U	0710D	S19	W27	9841	02	21.2	21D	SF		2	E		20		
0184	KANZ	23	0809	0812	0822	S22	W35	9841	02	20.6	13	SF		2	E				
0185	SVTO	23	0810	0811	0823	S20	W36	9830	02	20.6	13	SF		3	E		26		
0186	SVTO	23	0825	0825	0830	S20	W37	9830	02	20.5	5	SF		3	E		12		
0187	KANZ	23	1111	1112	1120	S22	W38	9841	02	20.5	9	SF		2	E				
0188	RAMY	23	1116E	1121U	1138D	S20	W27	9835	02	21.4	22D	SF		3	E		80		F
0189	RAMY	23	1153	1157	1212	S19	W43	9830	02	20.2	19	SF		3	E		26		F
		23	1350		1356	No Flare Patrol													
0190		23	1356	1356	1413	S20	W44	9830	02	20.2	17	SF					18		
	RAMY	23	1356	1356	1413	S21	W43	9830	02	20.3	17	SF		3	E		15		
	SVTO	23	1357E	1358U	1416D	S20	W45	9830	02	20.1	19D	SF		2	E		21		
0191	HOLL	23	1559	1600	1603	S16	W16	9839	02	22.4	4	SF		3	E		17		
0192	HOLL	23	2249	2249	2318	S15	W47	9830	02	20.4	29	SF		3	E		64		
0193	LEAR	24	0236	0237	0247	N22	E27	9844	02	26.2	11	SF		3	E		11		FH
0194	LEAR	24	0435	0437	0441	S19	W52	9830	02	20.2	6	SF		3	E		16		F
0195	LEAR	24	0620	0621	0632	N23	E24	9844	02	26.1	12	SF		3	E		20		
0196	SVTO	24	0755	0755	0759	N21	E27	9844	02	26.4	4	SF		3	E		12		
		24	1150		1227	No Flare Patrol													
0197	KANZ	24	1248	1248	1259	N13	E62	9845	03	1.2	11	SF		2	E				
0198	HOLL	24	1440	1448	1515	S18	W44	9841	02	21.3	35	SF		3	E		74		F
0199	HOLL	24	1539	1541	1547	S19	W62	9830	02	19.9	8	SF		3	E		17		
0200	HOLL	24	1659	1659	1716	N18	E65	9845	03	1.6	17	SF		3	E		17		
0201	HOLL	24	1727	1730	1742	S14	W59	9830	02	20.3	15	SF		3	E		22		F
0202	HOLL	24	1733	1747	1759	N22	E19	9844	02	26.2	26	SF		3	E		11		
0203	HOLL	24	1808	1808	1823	S18	W33	9839	02	22.2	15	SF		3	E		10		
0204	HOLL	24	1908	1912	1916	N22	E18	9844	02	26.2	8	SF		3	E		21		
0205		24	20302	2043	2103	S18	W66	9830	02	19.8	33	SF					35		F
	HOLL	24	2030	2030U	2120D	S19	W65	9830	02	19.9	50D	SF		3	E		12		F
	RAMY	24	2032	2043	2103	S16	W68	9830	02	19.7	31	SF		3	E		58		F
0206	RAMY	24	2052	2054	2059	N21	E21	9844	02	26.5	7	SF		3	E		13		F
		24	2205		2211	No Flare Patrol													
0207	LEAR	25	0124	0124	0127	N21	E19	9844	02	26.5	3	SF		3	E		14		
		25	0248		0335	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)	
0208	LEAR	25	0427	0430	0435	N21	E13	9844	02	26.2	8	SF		3	E		39		F
0209	LEAR	25	0523	0530	0533	S04	W47	9846	02	21.7	10	SF		3	E		27		FH
0210	LEAR	25	0710	0711	0721	S20	W63	9830	02	20.5	11	SF		3	E		25		F
0211	SVTO	25	0718	0719	0724	S13	W67	9830	02	20.2	6	SF		3	E		21		F
0212	SVTO	25	0739	0740	0742	S03	W49	9846	02	21.6	3	SF		3	E		16		
0213	SVTO	25	0753	0759	0818	S02	W48	9846	02	21.7	25	SF		3	E		17		F
0214	SVTO	25	0821	0837	0841	S02	W47	9846	02	21.8	20	SF		3	E		14		F
0215	SVTO	25	0841	0857	0915	S02	W48	9846	02	21.8	34	SF		3	E		20		
0216	SVTO	25	0931	0939	1017	S04	W40	9846	02	22.4	46	SF		3	E		76		F
0217		25	0937	0937	0943	S04	W50	9846	02	21.7	6	SF					23		F
	KANZ	25	0937	0937	0943	S04	W50	9846	02	21.7	6	SF		2	E				
	LEAR	25	0937	0939	0943	S04	W49	9846	02	21.7	6	SF		2	E		23		F
0218		25	1026*	1028*	1036	S02	W50	9846	02	21.7	10	SF					20		F
	SVTO	25	1026	1028	1031	S02	W49	9846	02	21.8	5	SF		3	E		14		F
	SVTO	25	1037	1039	1042	S02	W51	9846	02	21.6	5	SF		3	E		26		F
0219	KANZ	25	1040	1040	1044	S19	W71	9830	02	20.0	4	SF		2	E				
0220		25	1051	1052	1056	S14	W70	9830	02	20.2	5	SF					26		F
	KANZ	25	1051	1052	1054	S15	W68	9830	02	20.3	3	SF		2	E				
	SVTO	25	1051	1053	1058	S14	W71	9830	02	20.1	7	SF		3	E		26		F
0221		25	1203	1203	1214	S02	W51	9846	02	21.7	11	SF					13		F
	RAMY	25	1203	1203	1215	S01	W51	9846	02	21.7	12	SF		2	E		13		F
	KANZ	25	1203	1204	1213	S04	W51	9846	02	21.7	10	SF		2	E				
0222	SVTO	25	1308	1309	1320	S02	W51	9846	02	21.7	12	SF		3	E		16		F
0223	HOLL	25	1444	1444	1447	S03	W50	9846	02	21.9	3	SF		3	E		15		
0224	RAMY	25	1554	1554	1557	S16	W72	9830	02	20.2	3	SF		3	E		35		
0225	RAMY	25	1618	1620	1646	S02	W51	9846	02	21.9	28	SF		3	E		63		
0226	HOLL	25	1619	1620	1629	S04	W44	9846	02	22.4	10	SF		3	E		30		H
0227		25	1709*	1727	1740	S02	W51	9846	02	21.9	31	SF					48		FH
	RAMY	25	1709	1729	1743	S02	W51	9846	02	21.9	34	SF		3	E		65		FH
	HOLL	25	1725	1727	1738	S01	W51	9846	02	21.9	13	SF		3	E		32		FH
0228		25	1758	1802*	1826	S02	W52	9846	02	21.9	28	SF					30		H
	HOLL	25	1758	1802	1827	S02	W51	9846	02	21.9	29	SF		3	E		24		
	RAMY	25	1801	1816	1825	S02	W52	9846	02	21.9	24	SF		3	E		37		H
0229	HOLL	25	1900	1902	1907	S02	W52	9846	02	21.9	7	SF		3	E		12		
0230		25	1936	1938	1955	S02	W54	9846	02	21.8	19	SF					16		FH
	HOLL	25	1936	1938	1957	S02	W53	9846	02	21.8	21	SF		3	E		16		F
	RAMY	25	1937	1938	1953	S02	W55	9846	02	21.7	16	SF		3	E		16		FH
0231		25	1945	1946	1950	S15	W74	9830	02	20.2	5	SF					42		
	RAMY	25	1945	1946	1950	S15	W76	9830	02	20.1	5	SF		3	E		42		
	HOLL	25	1945	1947	1950	S15	W71	9830	02	20.4	5	SF		3	E		41		
0232	RAMY	25	2010	2012	2014	S14	W74	9830	02	20.2	4	SF		3	E		29		
0233	HOLL	25	2044	2044	2051	S07	W58	9829	02	21.5	7	SF		3	E		26		
0234	RAMY	25	2126	2127	2131	S14	W75	9830	02	20.2	5	SF		3	E		38		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)	
0235	HOLL	25	2221	2221	2224	S02	W54	9846	02	21.9	3	SF		3	E		16		
0236	HOLL	25	2249	2250	2253	S18	W78	9830	02	20.0	4	SF		3	E		16		H
0237	HOLL	25	2334	2336	2340	S04	W48	9846	02	22.4	6	SF		3	E		14		
			26 0246		0253														No Flare Patrol
			26 0343		0413														No Flare Patrol
			26 0422		0538														No Flare Patrol
			26 0548		0605														No Flare Patrol
0238	SVTO	26	0652	0652	0658	N13	E40	9845	03	1.3	6	SF		3	E		12		
0239	SVTO	26	0654	0656	0702	S18	W53	9839	02	22.2	8	SF		3	E		54		
0240		26	1027	1027	1032	S14	W84	9830	02	20.1	5	SF					84		
	SVTO	26	1027	1027	1030	S13	W89	9830	02	19.7	3	SF		3	E		84		
	KANZ	26	1027	1027	1033	S15	W80	9830	02	20.4	6	SF		2	E				
			26 1127		1219														No Flare Patrol
			26 1241		1310														No Flare Patrol
			26 1314		1353														No Flare Patrol
0241	HOLL	26	1354E	1400U	1415	N13	E29	9845	02	28.8	21D	SF		1	E		70		
0242	SVTO	26	1355E	1356U	1407	N13	E36	9845	03	1.3	12D	SF		3	E		52		F
0243	HOLL	26	1458	1459	1504	S20	W55	9839	02	22.4	6	SF		3	E		38		
0244	HOLL	26	1526	1527	1537	S19	W46	9842	02	23.1	11	SF		3	E		13		
0245		26	1917	1917	1924	N11	W04	9837	02	26.5	7	SF					23		F
	HOLL	26	1917	1917	1921	N11	W03	9837	02	26.6	4	SF		3	E		18		F
	RAMY	26	1917	1917	1927	N11	W06	9837	02	26.3	10	SF		3	E		28		F
0246	LEAR	27	0048	0048	0057	S19	W61	9839	02	22.4	9	SF		3	E		11		
0247	LEAR	27	0446	0452	0505	N13	E26	9845	03	1.2	19	SF		3	E		22		F
			27 0651		0659														No Flare Patrol
0248	SVTO	27	1153	1153	1158	N23	W15	9844	02	26.3	5	SF		3	E		13		
			27 1258		1321														No Flare Patrol
0249	SVTO	27	1327	1328	1334	S17	W68	9839	02	22.4	7	SF		3	E		12		
0250	SVTO	27	1341	1345	1357	S17	W68	9839	02	22.4	16	SF		3	E		21		
0251	SVTO	27	1405	1405	1410	N23	W14	9844	02	26.5	5	SF		3	E		13		
0252	RAMY	27	1556	1603	1611	S18	W69	9839	02	22.4	15	SF		3	E		53		FH
0253	RAMY	27	2052	2053	2109	S18	W73	9839	02	22.3	17	SF		3	E		41		FH
			27 2149		2200														No Flare Patrol
			27 2215		2245														No Flare Patrol
			27 2306		2310														No Flare Patrol
			27 2325		2336														No Flare Patrol
0254	LEAR	28	0238	0238	0245	N22	W24	9844	02	26.3	7	SF		3	E		14		F
0255	LEAR	28	0523	0532	0557	N22	W25	9844	02	26.3	34	SF		3	E		34		F
0256	LEAR	28	0711	0711	0721	S19	E02	9848	02	28.4	10	SF		3	E		13		F
0257	SVTO	28	0925	0927	0938	S21	E02	9848	02	28.5	13	SF		3	E		37		F
			28 1226		1305														No Flare Patrol
			28 1349		1449														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)		
			28 1549		1625			No Flare Patrol												
0258	RAMY	28	1656	1656	1700	N19	W84	9842B	02	22.3	4	SF		3	E			12		
0259	RAMY	28	1704	1706	1710	N19	W84	9842B	02	22.3	6	SF		3	E			45		
0260	RAMY	28	1714	1715	1718	N19	W85	9842B	02	22.2	4	SF		3	E			19		
0261		28	19017	19101	1932	N22	W32	9844	02	26.3	31	SF						67		F
	RAMY	28	1901	1911	1942	N23	W33	9844	02	26.2	41	SF		3	E			90		F
	HOLL	28	1908	1910	1921	N22	W30	9844	02	26.5	13	SF		3	E			44		F
			28 1955		2020			No Flare Patrol												
			28 2033		2044			No Flare Patrol												
			28 2115		2200			No Flare Patrol												
			28 2206		2240			No Flare Patrol												
			28 2245		2317			No Flare Patrol												

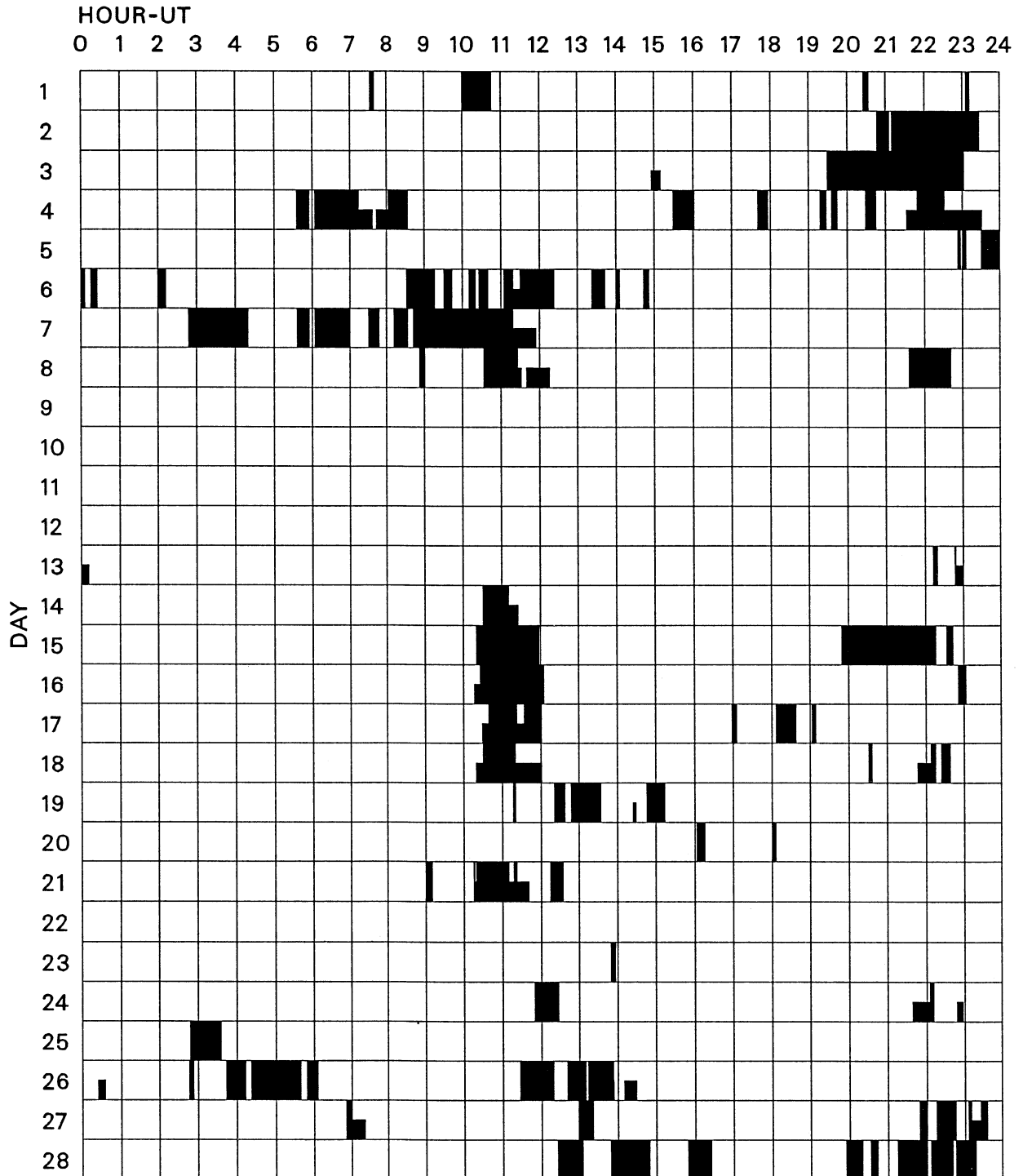
"Remarks"

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

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

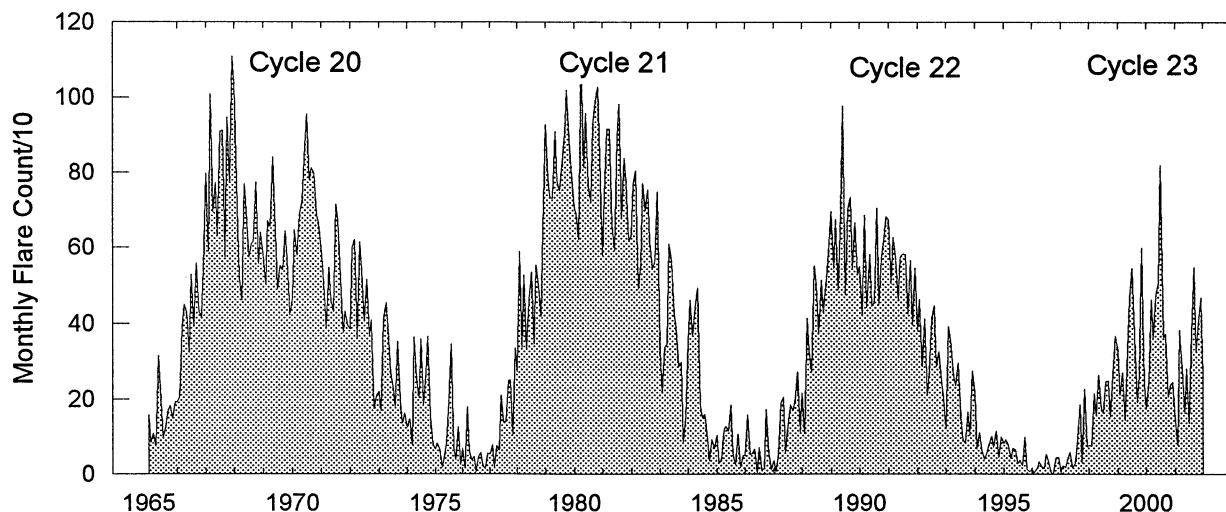
FEBRUARY 2002



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	Voroshilov	

Monthly Counts of Grouped Solar Flares Jan 1965 - Feb 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	261											579

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

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

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
01	235	CUBA	44 NS	1500.0E		410.0D		5.0		
	280	CUBA	44 NS	1500.0E		410.0D		15.0		
	500	HIRA	8 S	0258.0	0258.0	2.0	15.0			0
	9100	GORK	2 S/F	0711.6	0712.2	1.0	11.0			
	9100	GORK	2 S/F	0729.3	0729.7	1.0	6.4			
	600	GORK	7 C	0849.8	0850.0	0.5	5.8			
	600	GORK	7 C	0849.8	0850.2		3.8			
	900	GORK	8 S	0850.2	0850.3	0.2	19.0			
	900	GORK	3 S	0902.4	0902.8U	0.9	70.0U			
	2800	PENT	29 PBI	2058.0	2113.0	34.0U	23.0			
	200	HIRA	8 S	2330.0	2330.0	1.0	20.0			WL
02	235	CUBA	44 NS	1320.0E		100.0D		5.0		
	280	CUBA	44 NS	1320.0E		100.0D		15.0		
	200	HIRA	8 S	0600.0	0601.0	3.0	20.0			WL
	245	LEAR	8 S	0600.0	0601.0	2.0	71.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	0741.2	0741.4	0.9	21.0			
	204	IZMI	41 F	0743.1	0743.2	0.5	25.0			
	600	GORK	42 SER	0835.5	0844.5		4.4			
	600	GORK	42 SER	0835.5	0836.6	9.2	5.6			
	204	IZMI	7 C	0945.0	0945.1	0.2	22.0			
	204	IZMI	42 SER	1037.9	1038.1	1.1	20.0			
	204	IZMI	42 SER	1138.6	1138.7	0.1	22.0			
	127	TORN	8 S	1434.3	1434.5	0.9	50.0	20.0		
	6700	CUBA	2 S/F	1532.8	1534.1	3.2	37.0	18.0		12L
	245	SGMR	8 S	1954.0	1954.0	U	150.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	2152.0	2153.0	1.0	45.0			0
	2800	PENT	1 S	2239.0	2241.0	4.0	7.0			
	200	HIRA	8 S	2258.0	2258.0	1.0	45.0			0
03	127	TORN	43 NS	0900.0		360.0U		6.0		V=1?,DISTURBED
	235	CUBA	44 NS	1400.0E		60.0D		5.0		
	280	CUBA	44 NS	1400.0E		60.0D		15.0		
	2840	PEKG	1 S	0048.0	0051.8	8.0	7.5			
	2804	VORO	2 S/F	0050.4	0051.7	2.6	11.4			
	2840	PEKG	1 S	0229.0	0233.1	6.0	5.5			
	2804	VORO	2 S/F	0231.0	0231.8	1.8	6.5			
	2695	LEAR	8 S	0304.0	0305.0	2.0	14.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0304.0	0305.0	2.0	61.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0304.0	0305.0	2.0	39.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0304.1	0305.6	3.7	16.3			
	4995	PALE	8 S	0305.0	0305.0	U	50.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0305.0	0305.0	U	36.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0305.0E	0305.5	12.0D	16.9			
	2804	VORO	29 PBI	0307.8	0307.8	50.0	4.2			
	4995	LEAR	8 S	0452.0	0452.0	U	20.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0452.0	0452.0	U	22.0			QL=4 ST=2 TYP=3
	200	HIRA	42 SER	0537.0	0549.0	12.0	45.0			0
	200	HIRA	47 GB	0752.0	0752.0	1.0	560.0			0
	245	LEAR	49 GB	0752.0	0752.0	U	820.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	0752.0	0752.0	1.0	860.0			QL=4 ST=2 TYP=6
	204	IZMI	46 C	0752.3	0752.4	1.0	703.0			
	204	IZMI	46 C	0805.9	0806.1	0.6	101.0			
	204	IZMI	42 SER	0813.8	0814.2	0.6	19.0			
	204	IZMI	41 F	0901.9	0902.2	0.6	76.0			
	204	IZMI	41 F	0904.5	0904.8	0.3	44.0			
	204	IZMI	7 C	0950.9	0950.9	0.1	11.0			
	204	IZMI	7 C	0953.6	0953.7	0.2	39.0			
	600	GORK	40 F	1021.8	1025.6	13.7	9.0			
	204	IZMI	41 F	1028.9	1029.3	0.7	50.0			
	245	SVTO	8 S	1029.0	1029.0	U	55.0			QL=4 ST=2 TYP=3
	127	TORN	5 S	1107.0	1107.3	1.2	180.0	60.0		
	204	IZMI	7 C	1117.3	1117.5	0.9	22.0			
33	UPIC	46 C	1307.0	1309.5	3.0					
6700	CUBA	21 GRF	1421.0	1521.0	117.0	22.0	11.0		19L	
6700	CUBA	2 S/F	1457.0	1459.1	5.6	20.0	10.0		4L	
6700	CUBA	1 S	1512.8	1513.6	1.6	17.0	8.0		5L	
500	HIRA	4 S/F	2305.0	2305.0	2.0	35.0			0	
200	HIRA	8 S	2330.0	2330.0	1.0	25.0			0	

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

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Feb 02

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
04	235	CUBA	44 NS	1320.0E		100.0D		5.0		
	280	CUBA	44 NS	1320.0E		100.0D		16.0		
	2804	VORO	22 GRF	0145.0	0203.2	120.0	10.4			
	200	HIRA	8 S	0203.0	0204.0	1.0	15.0		0	
	2840	PEKG	5 S	0208.0	0210.2	7.0	24.5			
	2804	VORO	40 F	0210.0	0210.3	2.7	25.9			
	2804	VORO	8 S	0312.0	0312.1	0.6	10.9			
	2840	PEKG	1 S	0428.0	0430.2	6.0	4.1			
	200	HIRA	8 S	0429.0	0430.0	1.0	95.0		0	
	2804	VORO	8 S	0430.0	0430.1	0.8	5.4			
	2840	PEKG	20 GRF	0529.0	0556.7	62.0	25.1			
	200	HIRA	8 S	0541.0	0541.0	1.0	10.0		0	
	4995	LEAR	20 GRF	0551.0	0555.0	27.0	82.0			QL=4 ST=2 TYP=2
	8800	LEAR	46 C	0552.0	0558.0	22.0	43.0			QL=4 ST=2 TYP=8
	15400	LEAR	46 C	0559.0	0602.0	11.0	22.0			QL=4 ST=2 TYP=8
	3000	IZMI	20 GRF	1005.4	1012.2	35.2	11.0	3.0		
	204	IZMI	7 C	1010.2	1010.3	0.2	15.0			
	204	IZMI	41 F	1011.6	1011.7	0.9	29.0			
	3000	IZMI	20 GRF	1056.4	1056.9	1.5	10.0	5.0		
	410	SVTO	8 S	1213.0	1213.0		U	68.0		QL=4 ST=2 TYP=3
	610	SVTO	8 S	1213.0	1213.0		U	27.0		QL=4 ST=2 TYP=3
	127	TORN	7 C	1213.3	1213.7	1.2	140.0	50.0		
	2800	PENT	20 GRF	1638.0	1645.0	16.0	6.0			
	2800	PENT	40 F	1852.0	1908.0	40.0U	19.0			
	2695	SGMR	4 S/F	1905.0	1908.0	5.0	29.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	1906.0	1908.0	5.0	140.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1906.0	1907.0	5.0	98.0			QL=4 ST=2 TYP=8
	610	SGMR	4 S/F	1907.0	1909.0	3.0	98.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1908.0	1909.0	2.0	100.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1910.0	1910.0		U	27.0		QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1910.0	1910.0		U	33.0		QL=4 ST=2 TYP=3
	245	PALE	8 S	1958.0	1959.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1958.0	1958.0	1.0	120.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2318.0	2327.0	29.0	94.0			
	245	PALE	46 C	2324.0	2324.0		U	46.0		QL=4 ST=2 TYP=8
	245	PALE	8 S	2324.0	2324.0		U	46.0		QL=4 ST=2 TYP=3
	2800	HIRA	3 S	2326.0	2326.0	7.0	95.0		0	
	500	HIRA	8 S	2326.0	2326.0	2.0	195.0		0	
	4995	LEAR	48 C	2326.0	2327.0	6.0	140.0			QL=2 ST=2 TYP=8
	8800	LEAR	48 C	2326.0	2326.0	2.0	140.0			QL=2 ST=2 TYP=8
15400	LEAR	46 C	2326.0	2326.0	1.0	37.0			QL=2 ST=2 TYP=8	
1415	LEAR	8 S	2326.0	2326.0	1.0	110.0			QL=2 ST=2 TYP=3	
410	PALE	46 C	2326.0	2327.0	1.0	44.0			QL=4 ST=2 TYP=8	
2695	PALE	48 C	2326.0	2327.0	2.0	84.0			QL=4 ST=2 TYP=8	
4995	PALE	48 C	2326.0	2327.0	6.0	150.0			QL=4 ST=2 TYP=8	
8800	PALE	48 C	2326.0	2327.0	7.0	180.0			QL=4 ST=2 TYP=8	
15400	PALE	48 C	2326.0	2326.0	1.0	66.0			QL=4 ST=2 TYP=8	
1415	PALE	8 S	2326.0	2326.0	1.0	180.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2327.0	2327.0	1.0	25.0		0		
2695	LEAR	46 C	2331.0	2332.0	1.0	22.0			QL=2 ST=2 TYP=8	
05	235	CUBA	44 NS	1320.0E		100.0D		5.0		
	280	CUBA	44 NS	1320.0E		100.0D		17.0		
	410	LEAR	4 S/F	0800.0	0824.0	960.0	20.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	0820.2	0820.3	0.3	16.0			
	204	IZMI	42 SER	0821.4	0823.4	2.3	133.0			
	3000	IZMI	40 F	0821.6	0826.8	7.4	10.0	3.0		
	245	LEAR	4 S/F	0823.0	0824.0	3.0	370.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	0823.0	0824.0	2.0	340.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0824.0	0824.0	1.0	71.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	0824.7	0824.8	1.4	1296.0			
	204	IZMI	41 F	1138.2	1138.4	0.3	62.0			
	204	IZMI	7 C	1139.3	1139.5	0.2	12.0			
	204	IZMI	42 SER	1156.6	1158.4	3.0	916.0			
	245	SVTO	8 S	1158.0	1158.0		U	230.0		QL=4 ST=2 TYP=3
	245	SGMR	8 S	1619.0	1619.0		U	99.0		QL=4 ST=2 TYP=3
	2800	PENT	1 S	1703.0	1706.0	7.0	11.0			
245	SGMR	8 S	1939.0	1939.0		U	120.0		QL=4 ST=2 TYP=3	
245	PALE	4 S/F	2000.0	2004.0	4.0	59.0			QL=4 ST=3 TYP=3	

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

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
05	245	SGMR	8 S	2004.0	2004.0	U	57.0			QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	2030.0	2103.0	60.0	6.0			
	245	SGMR	8 S	2049.0	2049.0	U	120.0			QL=4 ST=2 TYP=3
06	127	TORN	44 NS	1020.0E		280.0D		7.0		V=0
	235	CUBA	44 NS	1315.0E		105.0D		5.0		
	280	CUBA	44 NS	1315.0E		105.0D		16.0		
	200	HIRA	8 S	0002.0	0002.0	2.0	15.0			0
	200	HIRA	42 SER	0028.0	0034.0	6.0	20.0			0
	245	LEAR	8 S	0111.0	0111.0	U	120.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0112.0	0112.0	1.0	45.0			0
	2840	PEKG	1 S	0123.0	0125.1	5.0	8.5			
	2804	VORO	40 F	0124.0	0125.0	1.8	12.1			
	2840	PEKG	45 C	0433.0	0437.8	14.0	53.3			
	2800	HIRA	4 S/F	0435.0	0438.0	5.0	35.0			0
	200	HIRA	7 C	0435.0	0437.0	8.0	230.0			0
	2804	VORO	46 C	0435.0	0437.5	7.5	31.5			
	500	HIRA	8 S	0436.0	0438.0	2.0	20.0			0
	245	LEAR	48 C	0436.0	0436.0	4.0	520.0			QL=4 ST=2 TYP=8
	410	LEAR	46 C	0436.0	0438.0	2.0	37.0			QL=4 ST=2 TYP=8
	2695	LEAR	46 C	0436.0	0436.0	1.0	25.0			QL=4 ST=2 TYP=8
	4995	LEAR	46 C	0436.0	0436.0	1.0	32.0			QL=4 ST=2 TYP=8
	8800	LEAR	46 C	0436.0	0436.0	U	21.0			QL=4 ST=2 TYP=8
	1415	LEAR	8 S	0436.0	0437.0	1.0	75.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0437.0	0437.0	U	26.0			QL=4 ST=2 TYP=3
	2804	VORO	32 ABS	0442.5	0451.2	29.5	5.2			
	200	HIRA	7 C	0504.0	0506.0	7.0	150.0			WL
	245	LEAR	4 S/F	0504.0	0506.0	3.0	180.0			QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0506.0	0510.0	4.0	15.0			0
	245	LEAR	8 S	0509.0	0509.0	1.0	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0509.0	0509.0	U	34.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0601.0	0608.6	21.0	63.6			
	2800	HIRA	3 S	0607.0	0609.0	5.0	50.0			0
	15400	LEAR	46 C	0608.0	0608.0	U	22.0			QL=4 ST=2 TYP=8
	610	LEAR	8 S	0608.0	0608.0	U	40.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0608.0	0608.0	1.0	43.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0608.0	0608.0	2.0	78.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0608.0	0608.0	1.0	63.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0609.0	0609.0	1.0	40.0			0
	200	HIRA	8 S	0650.0	0650.0	1.0	20.0			0
	204	IZMI	42 SER	0942.8	0944.1	1.6	9.0			
	204	IZMI	42 SER	0946.9	0950.9	5.2	16.0			
	610	SVTO	48 C	1128.0	1130.0	3.0	65.0			QL=4 ST=2 TYP=8
	410	SVTO	8 S	1128.0	1128.0	1.0	300.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1128.0	1128.0	1.0	79.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1128.0	1129.0	2.0	60.0			QL=4 ST=2 TYP=3
1415	SVTO	4 S/F	1128.0	1129.0	3.0	76.0			QL=4 ST=2 TYP=3	
4995	SVTO	4 S/F	1128.0	1129.0	4.0	140.0			QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	1128.0	1129.0	4.0	130.0			QL=4 ST=2 TYP=3	
3000	IZMI	45 C	1128.2	1128.7	4.7	71.0	24.0			
33	UPIC	46 C	1128.5	1129.5	4.5				UNCERTN	
245	SGMR	49 GB	1522.0	1528.0	7.0	600.0			QL=4 ST=2 TYP=6	
410	SGMR	49 GB	1527.0	1528.0	2.0	620.0			QL=4 ST=2 TYP=6	
410	SVTO	49 GB	1527.0	1528.0	2.0	680.0			QL=4 ST=2 TYP=6	
610	SGMR	8 S	1528.0	1528.0	1.0	110.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1528.0	1528.0	1.0	450.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	1528.0	1528.0	U	91.0			QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	1702.0	1705.0	30.0U	10.0				
245	SGMR	8 S	1704.0	1705.0	2.0	320.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1704.0	1705.0	1.0	73.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1719.0	1719.0	U	130.0			QL=4 ST=2 TYP=3	
2800	PENT	26 FAL	1828.0		32.0U	9.0				
245	SGMR	8 S	1921.0	1922.0	1.0	86.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2012.0	2012.0	1.0	120.0			QL=4 ST=2 TYP=3	
6700	CUBA	1 S	2012.3	2013.0	2.5	9.0	4.0		30R	
9500	CUBA	1 S	2012.3	2013.0	1.7	7.0	3.0			
2800	PENT	26 FAL	2028.0		25.0U	12.0				
200	HIRA	8 S	2347.0	2347.0	1.0	15.0			0	

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

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							(10 -22 W/m 2 Hz)	Mean			
07	127	TORN	44 NS	1000.0E	1348.6	273.0D	180.0	9.0		V=0	
	235	CUBA	44 NS	1330.0E		90.0D		5.0			
	280	CUBA	44 NS	1330.0E		90.0D		17.0			
	2840	PEKG	1 S	0051.0	0053.6	7.0		5.3			
	245	LEAR	8 S	0052.0	0053.0	1.0		490.0			QL=4 ST=2 TYP=3
	2804	VORO	3 S	0052.8	0053.4	1.8		6.9			
	2840	PEKG	1 S	0126.0	0129.5	8.0		8.9			
	2804	VORO	3 S	0129.0	0129.6	2.0		7.4			
	200	HIRA	8 S	0340.0	0340.0	1.0		45.0			0
	2840	PEKG	1 S	0518.0	0522.5	8.0		4.6			
	200	HIRA	7 C	0525.0	0526.0	3.0		170.0			0
	245	LEAR	8 S	0525.0	0525.0	1.0		54.0			QL=4 ST=3 TYP=3
	1415	SVTO	46 C	0624.0	0624.0	1056.0		29.0			QL=4 ST=1 TYP=8
	2840	PEKG	1 S	0812.0	0814.1	6.0		3.5			
	600	GORK	7 C	0812.9	0813.1	1.3		6.0			
	900	GORK	45 C	0812.9	0813.2	1.3		40.0			
	600	GORK	7 C	0812.9	0813.6			13.0			
	900	GORK	45 C	0812.9	0813.7			21.0			
	204	IZMI	41 F	0813.0	0813.5	1.7		21.0			
	2950	GORK	1 S	0813.6	0814.0	0.6		3.5			
	204	IZMI	7 C	0844.7	0844.8	0.2		58.0			
	204	IZMI	7 C	0848.8	0848.9	0.6		16.0			
	3000	IZMI	41 F	1114.7	1117.2	3.2		38.0	14.0		
	33	UPIC	46 C	1127.5	1128.0	2.5					
	245	SVTO	8 S	1140.0	1140.0		U	62.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1307.0	1308.0	1.0		74.0			QL=4 ST=2 TYP=3
	33	UPIC	48 C	1334.0	1337.0	4.0					
	1415	SGMR	49 GB	1335.0	1336.0	1.0		570.0			QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	1335.0	1336.0	1.0		560.0			QL=4 ST=3 TYP=6
	245	SVTO	8 S	1335.0	1335.0	1.0		140.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1335.0	1335.0	1.0		200.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1335.0	1336.0	1.0		140.0			QL=4 ST=2 TYP=3
	6700	CUBA	2 S/F	1335.2	1336.8	4.0		13.0	6.0		
245	SGMR	49 GB	2002.0	2002.0	1.0		1500.0			QL=4 ST=2 TYP=6	
610	SGMR	8 S	2004.0	2004.0		U	50.0			QL=4 ST=2 TYP=3	
08	235	CUBA	44 NS	1320.0E		100.0D		7.0			
	280	CUBA	44 NS	1320.0E		100.0D		18.0			
	2840	PEKG	3 S	0421.0	0425.3	11.0		32.2			
	2804	VORO	28 PRE	0422.8	0423.3	1.6		3.9			
	2804	VORO	46 C	0424.4	0425.5	5.6		25.2			
	2800	HIRA	1 S	0425.0	0425.0	2.0		30.0			0
	2695	LEAR	46 C	0425.0	0425.0		U	27.0			QL=4 ST=2 TYP=8
	4995	LEAR	8 S	0425.0	0425.0		U	53.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0425.0	0425.0		U	57.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0426.0	0426.0		U	40.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0859.0	0900.0	1.0		67.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0859.7	0900.2	0.8		169.0			
	245	SVTO	8 S	0900.0	0900.0		U	59.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0949.9	0950.1	0.6		404.0			
	245	LEAR	8 S	0950.0	0950.0		U	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0950.0	0950.0		U	170.0			QL=4 ST=3 TYP=3
	204	IZMI	42 SER	1144.1	1144.4	0.6		21.0			
	245	SGMR	8 S	1301.0	1301.0		U	480.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1301.0	1301.0		U	410.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1905.0	1905.0	2.0		1100.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1905.0	1905.0		U	64.0			QL=4 ST=2 TYP=3
610	PALE	8 S	1905.0	1905.0		U	60.0			QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1905.0	1905.0		U	1000.0			QL=4 ST=2 TYP=6	
410	SGMR	8 S	1905.0	1905.0		U	41.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1905.0	1905.0		U	39.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	1905.0	1905.0		U	28.0			QL=4 ST=2 TYP=3	
09	127	TORN	44 NS	1150.0E		190.0D		9.0		V=0	
	200	HIRA	8 S	0048.0	0051.0	3.0		210.0			0
	245	LEAR	4 S/F	0048.0	0049.0	3.0		350.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0048.0	0049.0	3.0		580.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0051.0	0051.0	1.0		55.0			0
	410	LEAR	8 S	0051.0	0051.0		U	47.0			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 -22 W/m 2 Hz)	Mean		
09	410	PALE	8 S	0051.0	0051.0	U	140.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0121.0	0122.0	2.0	55.0			0
	200	HIRA	8 S	0320.0	0320.0	2.0	35.0			0
	245	LEAR	8 S	0320.0	0320.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0320.0	0320.0	U	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0513.0	0513.0	U	64.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0554.0	0557.8	9.0	9.6			
	2804	VORO	3 S	0557.0	0558.0	3.0	7.8			
	204	IZMI	42 SER	0748.3	0750.3	2.1	191.0			
	200	HIRA	8 S	0749.0	0750.0	2.0	95.0			0
	900	GORK	1 S	0804.8	0805.0	0.5	11.0			
	204	IZMI	41 F	0811.5	0811.5	0.7	15.0			
	900	GORK	1 S	0826.2	0826.4	0.4	8.9			
	204	IZMI	41 F	0855.1	0855.1	0.3	45.0			
	600	GORK	1 S	1033.7	1033.9	0.2	12.0			
	600	GORK	45 C	1041.1	1041.5	0.4	18.0			
	600	GORK	45 C	1041.1	1041.6		16.0			
	245	SVTO	8 S	1046.0	1046.0	U	67.0			QL=4 ST=2 TYP=3
204	IZMI	41 F	1046.3	1046.5	0.8	80.0				
245	SGMR	8 S	1941.0	1942.0	1.0	130.0			QL=4 ST=2 TYP=3	
10	127	TORN	44 NS	0700.0E		480.0D		17.0		V=1
	204	IZMI	43 NS	0749.0		251.0D		20.0		
	235	CUBA	44 NS	1325.0E		95.0D		6.0		
	280	CUBA	44 NS	1325.0E		95.0D		17.0		
	200	HIRA	8 S	0200.0	0200.0	1.0	25.0			0
	410	LEAR	8 S	0559.0	0559.0	U	53.0			QL=4 ST=2 TYP=3
	600	GORK	40 F	0843.6	0845.2	4.9	6.6			
	900	GORK	40 F	0844.5	0845.2	1.9	7.9			
	3000	IZMI	7 C	1133.4	1133.6	0.5	12.0	4.0		
	245	SVTO	8 S	1159.0	1159.0	U	57.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1835.0	1844.0	57.0U	57.0			
	2695	PALE	46 C	1843.0	1843.0	1.0	48.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	1843.0	1843.0	2.0	70.0			QL=4 ST=2 TYP=8
	4995	PALE	8 S	1843.0	1844.0	1.0	130.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1843.0	1843.0	U	24.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1843.0	1843.0	2.0	64.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1843.0	1843.0	2.0	100.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1843.0	1844.0	7.0	200.0			QL=4 ST=2 TYP=3
6700	CUBA	4 S/F	1843.3	1843.5	5.0	162.0	81.0		1L	
9500	CUBA	2 S/F	1843.3	1843.5	3.0	66.0	33.0			
11	127	TORN	43 NS	1020.0		22.0		12.0		V=0
	235	CUBA	44 NS	1330.0E		90.0D		9.0		
	280	CUBA	44 NS	1330.0E		90.0D		21.0		
	245	SGMR	43 NS	1413.0	1718.0	281.0	180.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1722.0	1744.0	201.0	190.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1928.0	2000.0	68.0	160.0			QL=4 ST=2 TYP=1
	2840	PEKG	1 S	0121.0	0126.0	8.0	6.3			
	2804	VORO	3 S	0125.9	0126.3	1.8	4.0			
	200	HIRA	8 S	0126.0	0126.0	1.0	15.0			0
	200	HIRA	8 S	0201.0	0202.0	1.0	30.0			0
	2840	PEKG	1 S	0316.0	0318.5	5.0	5.4			
	200	HIRA	8 S	0629.0	0629.0	1.0	15.0			0
	245	LEAR	8 S	0629.0	0629.0	U	48.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0829.9	0829.9	0.5	12.0			
	600	GORK	1 S	0917.5	0917.7	0.5	4.0			
	2950	GORK	2 S/F	0919.9	0920.5	2.2	2.2			
	600	GORK	46 C	0921.1	0921.2	0.9	6.6			
	600	GORK	46 C	0921.1	0921.7		12.0			
	2950	GORK	1 S	0923.3	0924.7	2.9	7.8			
	3000	IZMI	20 GRF	0924.0	0924.7	1.9	11.0	5.0		
	2950	GORK	1 S	1010.5	1010.9	0.8	3.3			
9100	GORK	4 S/F	1016.7	1016.8	0.8	70.0				
204	IZMI	7 C	1132.6	1132.7	0.3	29.0				
410	SVTO	8 S	1205.0	1205.0	U	56.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1245.0	1245.0	U	100.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1245.0	1245.0	U	72.0			QL=4 ST=2 TYP=3	
33	UPIC	45 C	1246.5	1247.0	1.5					

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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 ² Hz)	Mean		
11	33	UPIC	45	C	1304.0	1304.5	1.5			
	245	SGMR	8	S	1328.0	1329.0	1.0	76.0		QL=4 ST=2 TYP=3
		SVTO	8	S	1329.0	1329.0	U	93.0		QL=4 ST=2 TYP=3
		SGMR	8	S	1400.0	1400.0	U	72.0		QL=4 ST=2 TYP=3
	245	SVTO	8	S	1403.0	1404.0	2.0	52.0		QL=4 ST=2 TYP=3
		SGMR	8	S	1404.0	1404.0	U	64.0		QL=4 ST=2 TYP=3
		33	UPIC	32	ABS	1429.0	1438.0	25.0		
	245	SVTO	8	S	1528.0	1530.0	2.0	81.0		QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2120.0	2125.0	12.0U	5.0		
	2800	PENT	3	S	2232.0	2236.0	13.0	4.0		
2800	PENT	29	PBI	2249.0	2254.0	61.0	20.0			
12	245	SVTO	43	NS	0609.0	0659.0U	60.0	120.0		QL=2 ST=3 TYP=1
	245	LEAR	43	NS	0627.0	0657.0	62.0	100.0		QL=4 ST=2 TYP=1
	127	TORN	44	NS	0700.0E		480.0D		15.0	V=0
	245	LEAR	43	NS	0832.0	0900.0	111.0	180.0		QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1325.0E		95.0D		6.0	
	280	CUBA	44	NS	1325.0E		505.0D		19.0	
	245	SGMR	43	NS	1335.0	1606.0	250.0	99.0		QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1901.0	1911.0	33.0	66.0		QL=4 ST=2 TYP=1
	2840	PEKG	1	S	0214.0	0218.0	8.0	2.6		
	2804	VORO	22	GRF	0215.0	0255.0	125.0	8.3		
	2804	VORO	46	C	0215.6	0218.2	4.0	10.2		
	2840	PEKG	1	S	0249.0	0252.1	9.0	10.4		
	2804	VORO	3	S	0250.6	0252.0	3.8	9.5		
	245	LEAR	48	C	0307.0	0307.0	2.0	57.0		QL=4 ST=2 TYP=8
	2840	PEKG	1	S	0442.0	0445.8	8.0	8.4		
	245	LEAR	48	C	0444.0	0445.0	2.0	56.0		QL=4 ST=2 TYP=8
	410	LEAR	8	S	0444.0	0445.0	1.0	97.0		QL=4 ST=2 TYP=3
	2804	VORO	46	C	0444.3	0445.7	3.0	9.5		
	245	LEAR	48	C	0505.0	0507.0	4.0	65.0		QL=4 ST=2 TYP=8
	245	LEAR	48	C	0525.0	0526.0	4.0	79.0		QL=4 ST=2 TYP=8
	245	LEAR	48	C	0551.0	0553.0	13.0	89.0		QL=4 ST=3 TYP=8
	245	LEAR	48	C	0609.0	0609.0	4.0	78.0		QL=4 ST=2 TYP=8
	9100	GORK	4	S/F	0834.1	0834.3	0.4	37.0		
	3000	IZMI	22	GRF	0850.8	0851.1	1.0	11.0	4.0	
	2950	GORK	1	S	0850.9	0851.1	0.4	3.3		
	245	SVTO	8	S	0900.0	0900.0	1.0	150.0		QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1431.0	1512.0	129.0	9.0	4.0	
	6700	CUBA	21	GRF	1431.0	1512.0	161.0	13.0	6.0	7L
	6700	CUBA	1	S	1549.0	1549.5	1.6	24.0	12.0	8L
	9500	CUBA	1	S	1549.0	1549.8	2.0	22.0	11.0	
245	SGMR	8	S	1830.0	1830.0	1.0	110.0		QL=4 ST=2 TYP=3	
245	SGMR	48	C	1851.0	1851.0	1.0	77.0		QL=4 ST=2 TYP=8	
200	HIRA	8	S	2131.0	2131.0	1.0	30.0		0	
13	127	TORN	44	NS	0700.0E		480.0D		20.0	V=1
	204	IZMI	43	NS	0743.0		257.0D		5.0	
	245	LEAR	43	NS	0804.0	0804.0	16.0	51.0		QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1259.0	1301.0	22.0	210.0		QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1325.0E		155.0D		5.0	
	280	CUBA	44	NS	1325.0E		155.0D		18.0	
	245	SGMR	43	NS	1617.0	1627.0	11.0	68.0		QL=4 ST=2 TYP=1
	2840	PEKG	1	S	0122.0	0124.6	7.0	2.9		
	410	LEAR	8	S	0249.0	0249.0	U	63.0		QL=4 ST=2 TYP=3
	200	HIRA	8	S	0250.0	0250.0	1.0	30.0		0
	200	HIRA	8	S	0520.0	0521.0	1.0	105.0		0
	2840	PEKG	45	C	0656.0	0659.8	7.0	23.3		
	2950	GORK	2	S/F	0658.8	0659.1	0.5	7.1		
	2950	GORK	2	S/F	0659.6	0659.9	0.4	13.0		
	8800	LEAR	20	GRF	0705.0	0710.0	16.0	29.0		QL=4 ST=2 TYP=2
	4995	LEAR	20	GRF	0709.0	0710.0	12.0	21.0		QL=4 ST=2 TYP=2
	204	IZMI	42	SER	0747.3	0748.2	1.7	16.0		
	2950	GORK	7	C	0853.9	0856.0		5.9		
	2950	GORK	7	C	0853.9	0854.4	2.5	4.7		
	9100	GORK	1	S	0854.0	0854.5	1.7	6.8		
900	GORK	7	C	0854.2	0854.3	0.5	5.8			
900	GORK	7	C	0854.2	0854.5		3.5			
900	GORK	2	S/F	0857.7	0857.8	1.3	9.3			

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

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
13	900	GORK	1 S	0915.9	0916.1	0.4	4.6			
	245	SVTO	8 S	0916.0	0916.0	U	50.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	0935.5	0938.0	4.5				UNCERTN
	600	GORK	41 F	0936.9	0939.1		10.0			
	600	GORK	41 F	0936.9	0938.3	6.3	16.0			
	204	IZMI	42 SER	1029.6	1030.4	1.1	15.0			
	204	IZMI	7 C	1055.7	1055.8	0.1	96.0			
	204	IZMI	42 SER	1057.7	1058.2	1.2	30.0			
	245	SVTO	8 S	1125.0	1125.0	U	64.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1216.0	1216.0	U	220.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1216.0	1216.0	U	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1221.0	1221.0	U	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1221.0	1221.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1259.0	1259.0	U	80.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1301.0	1301.0	2.0	160.0			QL=4 ST=2 TYP=3
	6700	CUBA	20 GRF	1341.0	1606.0	153.0	14.0	7.0		3L
	245	SGMR	8 S	1412.0	1412.0	U	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1412.0	1412.0	2.0	130.0			QL=2 ST=3 TYP=3
	245	SGMR	8 S	1723.0	1724.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1842.0	1842.0	U	82.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	1954.0	1954.0	U	91.0			QL=4 ST=2 TYP=3	
2800	PENT	1 S	2314.0	2318.0	8.0	7.0				
14	204	IZMI	44 NS	0700.0E		264.0D		15.0		
	235	CUBA	44 NS	1310.0E		110.0D		5.0		
	280	CUBA	44 NS	1310.0E		110.0D		16.0		
	127	TORN	44 NS	1330.0E		80.0D		14.0		V=1
	2840	PEKG	1 S	0000.0	0003.2	7.0	2.8			
	2804	VORO	3 S	0002.5	0003.1	2.1	6.0			
	2804	VORO	3 S	0108.5	0109.4	2.0	4.8			
	200	HIRA	8 S	0143.0	0143.0	2.0	50.0			0
	500	HIRA	8 S	0313.0	0313.0	1.0	15.0			0
	2840	PEKG	3 S	0344.0	0347.0	10.0	31.8			
	2804	VORO	46 C	0345.0	0347.0	6.6	23.5			
	500	HIRA	8 S	0347.0	0347.0	1.0	15.0			0
	200	HIRA	8 S	0437.0	0437.0	1.0	15.0			0
	245	LEAR	8 S	0628.0	0628.0	U	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0628.0	0628.0	U	57.0			QL=4 ST=3 TYP=3
	9100	GORK	1 S	0833.6	0833.9	0.7	8.2			
	900	GORK	4 S/F	0926.8	0927.6U	2.2	130.0U			
	204	IZMI	7 C	0931.7	0931.7	0.1	47.0			
	900	GORK	46 C	1006.4	1007.2	1.9	24.0			
	900	GORK	46 C	1006.4	1007.8		73.0			
	600	GORK	46 C	1006.5	1007.4	1.5	30.0			
	600	GORK	46 C	1006.5	1007.7		18.0			
	2950	GORK	46 C	1006.8	1007.2	2.6	22.0			
	3000	IZMI	7 C	1006.8	1007.2	2.4	23.0	8.0		
	2950	GORK	46 C	1006.8	1008.8		3.6			
	9100	GORK	7 C	1006.9	1007.2	1.6	13.0			
	9100	GORK	7 C	1006.9	1007.4		18.0			
	245	SVTO	48 C	1103.0	1103.0	2.0	160.0			QL=4 ST=3 TYP=8
	245	SVTO	8 S	1103.0	1103.0	2.0	160.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	1103.0	1103.0	2.0	86.0			QL=4 ST=3 TYP=3
	204	IZMI	46 C	1103.0	1103.7	1.3	154.0			
	3000	IZMI	7 C	1103.6	1103.8	0.7	8.0	4.0		
610	SVTO	8 S	1105.0	1105.0	U	96.0			QL=4 ST=3 TYP=3	
33	UPIC	45 C	1214.5	1215.0	2.0					
245	SVTO	4 S/F	1324.0	1352.0	28.0	460.0			QL=4 ST=3 TYP=3	
127	TORN	42 SER	1347.4	1350.5	9.4	700.0	140.0			
245	SGMR	49 GB	1350.0	1352.0	2.0	540.0			QL=4 ST=2 TYP=6	
245	SVTO	8 S	1350.0	1352.0	2.0	460.0			QL=4 ST=3 TYP=3	
410	SGMR	8 S	1351.0	1351.0	1.0	380.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1351.0	1351.0	1.0	83.0			QL=4 ST=2 TYP=3	
410	SVTO	49 GB	1351.0	1351.0	1.0	650.0			QL=4 ST=2 TYP=6	
610	SVTO	8 S	1351.0	1351.0	1.0	95.0			QL=4 ST=2 TYP=3	
2800	PENT	1 S	1606.0	1608.0	5.0	6.0				
245	SGMR	8 S	1638.0	1638.0	U	90.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1656.0	1656.0	U	290.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1704.0	1704.0	1.0	310.0			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

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Feb 02

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
15	204	IZMI	44 NS	0700.0E		300.0D		5.0		
	127	TORN	43 NS	0910.0		200.0		11.0		V=1?,DISTURBED
	2840	PEKG	1 S	0613.0	0615.3	5.0	4.1			
	245	LEAR	8 S	0748.0	0748.0	U	59.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0748.0	0748.0	U	50.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0826.3	0829.6	3.3	128.0			
	245	LEAR	8 S	0828.0	0828.0	U	53.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	0937.9	0939.1	4.0	3709.0			
	3000	IZMI	1 S	0955.8	0955.9	0.4	7.0	4.0		
	900	GORK	46 C	1009.4	1010.2		7.4			
	900	GORK	46 C	1009.4	1009.7	1.1	23.0			
	245	SVTO	8 S	1025.0E	1025.0U	U	220.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1025.3	1025.4	0.5	77.0			
	900	GORK	46 C	1027.0	1027.2	1.1	44.0			
	900	GORK	46 C	1027.0	1027.8		23.0			
	245	SVTO	8 S	1115.0	1116.0	1.0	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1301.0	1301.0	U	75.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1336.0E	1337.0U	1.0D	380.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1338.0	1338.0	U	220.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1420.0E	1421.0U	1.0D	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1421.0	1421.0	U	270.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1522.0	1523.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1606.0	1606.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1716.0	1716.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2015.0	2015.0	U	100.0			QL=4 ST=2 TYP=3
245	LEAR	8 S	2322.0	2322.0	1.0	150.0			QL=4 ST=2 TYP=3	
245	LEAR	48 C	2344.0	2345.0	1.0	180.0			QL=4 ST=2 TYP=8	
16	127	TORN	44 NS	0930.0E		280.0D		3.0		V=1,DISTURBED
	235	CUBA	44 NS	1500.0E		240.0D		8.0		
	280	CUBA	44 NS	1500.0E		240.0D		19.0		
	200	HIRA	8 S	0047.0	0048.0	1.0	25.0			0
	245	LEAR	8 S	0050.0	0050.0	U	57.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0415.0	0416.0	1.0	55.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1020.9	1020.9	0.6	84.0			
	204	IZMI	45 C	1022.2	1022.7	0.9	94.0			
	410	SGMR	8 S	1348.0	1348.0	U	74.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1423.0	1423.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1530.0	1530.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1530.0	1530.0	2.0	89.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1830.0	1830.0	U	69.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1855.0	1855.0	U	89.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1859.0	1859.0	1.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1859.0	1859.0	U	66.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2344.0	2344.0	U	170.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2344.0	2344.0	U	71.0			QL=4 ST=2 TYP=3	
17	127	TORN	43 NS	0933.0		327.0		16.0		V=1
	235	CUBA	44 NS	1320.0E		100.0D		5.0		
	280	CUBA	44 NS	1320.0E		100.0D		15.0		
	200	HIRA	8 S	0039.0	0040.0	1.0	10.0			
	900	GORK	2 S/F	0910.5	0910.8	0.8	11.0			
	9100	GORK	20 GRF	0945.7	1042.0	74.0D	21.0			
	3000	IZMI	20 GRF	1024.4	1025.9	33.5	9.0	3.0		
	900	GORK	7 C	1024.6	1025.3	1.5	4.5			
	900	GORK	7 C	1024.6	1025.7		5.6			
	600	GORK	7 C	1024.7	1025.6	1.6	4.0			
	600	GORK	7 C	1024.7	1025.9		6.6			
245	SGMR	8 S	1304.0	1304.0	U	89.0			QL=4 ST=2 TYP=3	
18	127	TORN	44 NS	0940.0E		270.0D		12.0		V=1,DISTURBED
	245	LEAR	8 S	0321.0	0321.0	U	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0529.0	0529.0	U	200.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0531.0	0537.0	6.0	100.0			QL=4 ST=2 TYP=8
	200	HIRA	8 S	0535.0	0535.0	4.0	25.0			
	500	HIRA	8 S	0537.0	0538.0	1.0	15.0			
	410	LEAR	8 S	0537.0	0537.0	U	33.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0745.0	0748.8	15.0	22.3			
2950	GORK	21 GRF	0746.6	0752.6	12.2	8.2				

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

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
18	2950	GORK	46 C	0747.0	0747.9	3.0	10.0			
	2950	GORK	46 C	0747.0	0748.9		18.0			
	3000	IZMI	22 GRF	0747.1	0748.9	2.5	23.0	11.0		
	9100	GORK	20 GRF	0748.0	0800.3	20.7	13.0			
	9100	GORK	20 GRF	0842.0	0844.6	21.2	13.0			
	245	SGMR	8 S	1409.0	1409.0	U	460.0			QL=4 ST=2 TYP=3
	9500	CUBA	20 GRF	2037.0	2116.0	107.0	35.0	17.0		
19	127	TORN	43 NS	1110.0		230.00		2.0		V=1,DISTURBED
	235	CUBA	44 NS	1400.0E		470.00		7.0		
	280	CUBA	44 NS	1400.0E		470.00		18.0		
	245	SGMR	43 NS	1843.0	2042.0	152.0	140.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2237.0	2252.00	113.0	80.0			QL=4 ST=2 TYP=1
	500	HIRA	8 S	0504.0	0504.0	1.0	10.0			
	900	GORK	4 S/F	0717.5	0717.7	0.7	28.0			
	600	GORK	40 F	0833.8	0835.2		6.0			
	600	GORK	40 F	0833.8	0833.9	1.7	6.0			
	900	GORK	2 S/F	0902.6	0902.7	0.5	17.0			
	9100	GORK	1 S	0918.7	0919.0	0.5	14.0			
	204	IZMI	41 F	1136.9	1137.1	0.4	30.0			
	2800	PENT	1 S	1558.0	1601.0	6.0	7.0			
	245	PALE	8 S	1738.0	1738.0	U	66.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1738.0	1738.0	U	57.0			QL=4 ST=2 TYP=8
	4995	SGMR	8 S	2024.0	2024.0	U	66.0			QL=4 ST=3 TYP=3
4995	SGMR	8 S	2124.0	2124.0	U	66.0			QL=4 ST=2 TYP=3	
20	127	TORN	44 NS	0700.0E		480.00		16.0		V=1
	204	IZMI	43 NS	1007.0		113.00		10.0		
	235	CUBA	44 NS	1300.0E		120.00		6.0		
	280	CUBA	44 NS	1300.0E		120.00		18.0		
	2695	LEAR	4 S/F	0242.0	0247.0	6.0	28.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0244.0	0247.9	20.0	42.5			
	4995	LEAR	4 S/F	0246.0	0249.0	4.0	55.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0246.0	0249.0	4.0	240.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0246.0	0249.0	4.0	310.0			QL=4 ST=2 TYP=3
	2804	VORO	46 C	0246.8	0247.9	7.6	35.6			
	2800	HIRA	4 S/F	0247.0	0248.0	7.0	40.0			0
	2695	LEAR	8 S	0247.0	0247.0	U	23.0			QL=4 ST=3 TYP=3
	245	LEAR	4 S/F	0247.0	0248.0	3.0	140.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0247.0	0249.0	5.0	55.0			QL=4 ST=3 TYP=3
	8800	LEAR	4 S/F	0247.0	0249.0	6.0	230.0			QL=4 ST=3 TYP=3
	15400	LEAR	4 S/F	0247.0	0249.0	6.0	310.0			QL=4 ST=3 TYP=3
	500	HIRA	4 S/F	0248.0	0248.0	6.0	35.0			0
	200	HIRA	8 S	0248.0	0248.0	2.0	20.0			0
	245	LEAR	8 S	0248.0	0248.0	U	140.0			QL=4 ST=3 TYP=3
	410	PALE	48 C	0248.0	0248.0	U	82.0			QL=4 ST=2 TYP=8
	8800	PALE	8 S	0249.0	0250.0	1.0	75.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0439.0	0439.0	1.0	85.0			0
	200	HIRA	8 S	0538.0	0538.0	1.0	25.0			0
	245	LEAR	8 S	0538.0	0538.0	U	76.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0550.0	0555.8	14.0	81.5			
	2800	HIRA	3 S	0554.0	0556.0	3.0	65.0			0
	500	HIRA	7 C	0554.0	0555.0	2.0	150.0			0
	610	LEAR	8 S	0554.0	0554.0	U	87.0			QL=4 ST=2 TYP=3
	200	HIRA	7 C	0555.0	0556.0	2.0	65.0			WR
	245	LEAR	8 S	0555.0	0556.0	1.0	44.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0555.0	0555.0	U	210.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0555.0	0555.0	1.0	49.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0555.0	0555.0	1.0	60.0			QL=4 ST=2 TYP=3
2840	PEKG	45 C	0605.0	0609.3		78.0				
2840	PEKG	45 C	0605.0	0610.5	13.0	89.3				
2695	SVTO	4 S/F	0606.0	0610.0	5.0	100.0			QL=2 ST=2 TYP=3	
4995	SVTO	4 S/F	0606.0	0609.0	5.0	190.0			QL=2 ST=2 TYP=3	
2800	HIRA	4 S/F	0607.0	0610.0	6.0	60.0			0	
500	HIRA	4 S/F	0608.0	0611.0	7.0	125.0			0	
15400	LEAR	48 C	0608.0	0611.0	5.0	950.0			QL=4 ST=2 TYP=8	
245	LEAR	49 GB	0608.0	0608.0	2.0	940.0			QL=4 ST=2 TYP=6	
8800	LEAR	49 GB	0608.0	0609.0	4.0	770.0			QL=4 ST=2 TYP=6	
410	LEAR	4 S/F	0608.0	0610.0	3.0	150.0			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

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Feb 02

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
20	2695	LEAR	4 S/F	0608.0	0610.0	3.0	49.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0608.0	0609.0	3.0	230.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0608.0	0608.0	2.0	760.0			QL=2 ST=2 TYP=6
	1415	SVTO	4 S/F	0608.0	0611.0	5.0	48.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	0608.0	0609.0	3.0	230.0			QL=2 ST=2 TYP=3
	200	HIRA	47 GB	0608.0	0609.0	12.0	630.0			0
	610	LEAR	8 S	0609.0	0610.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0609.0	0610.0	2.0	91.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0610.0	0611.0	1.0	27.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0610.0	0610.0	1.0	78.0			QL=2 ST=2 TYP=3
	2840	PEKG	1 S	0707.0	0709.3	4.0	6.2			
	9100	GORK	46 C	0946.8	0958.1		180.0			
	9100	GORK	46 C	0946.8	0954.3	14.5	29.0			
	8800	SVTO	48 C	0952.0	0958.0	8.0	230.0			QL=4 ST=2 TYP=8
	900	GORK	46 C	0953.5	0956.5	7.0	30.0			
	900	GORK	46 C	0953.5	0957.8		15.0			
	600	GORK	46 C	0954.6	0956.6	5.9	50.0			
	600	GORK	46 C	0954.6	0957.7		31.0			
	610	LEAR	8 S	0956.0	0956.0		26.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0956.0	0956.0	1.0	42.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0956.0	0958.0	3.0	140.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	0956.8	0958.1	2.4	38.0	15.0		
	2695	LEAR	8 S	0957.0	0958.0	1.0	31.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0957.0	0958.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0957.0	0958.0	2.0	180.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0957.0	0958.0	2.0	95.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0957.0	0958.0	1.0	40.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0957.0	0958.0	3.0	150.0			QL=4 ST=2 TYP=3
	9100	GORK	3 S	0957.0	0958.4	3.0	180.0			
	33	UPIC	32 ABS	0958.0	1000.0	14.0				
	204	IZMI	7 C	0958.3	0958.6	0.8	11.0			
	204	IZMI	42 SER	1000.4	1001.5	2.7	9.0			
	900	GORK	2 S/F	1015.0	1015.7	1.1	7.3			
	204	IZMI	41 F	1028.5	1028.8	0.9	27.0			
	900	GORK	40 F	1045.2	1046.0	3.8	37.0			
	900	GORK	40 F	1045.2	1048.4		25.0			
	900	GORK	40 F	1045.2	1046.6		27.0			
	2950	GORK	45 C	1057.0	1058.1	2.0	38.0			
	2950	GORK	45 C	1057.0	1058.4		27.0			
	4995	SVTO	4 S/F	1104.0	1106.0	3.0	190.0			QL=4 ST=2 TYP=3
	3000	IZMI	22 GRF	1104.7	1106.3	3.4	40.0	9.0		
	245	SVTO	8 S	1106.0	1106.0	1.0	270.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1106.0	1106.0		27.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1106.0	1106.0		35.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1106.0	1106.0		150.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1106.0	1106.0		65.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1106.0	1106.5	2.0				
	204	IZMI	46 C	1106.1	1106.3	1.4	5440.0			
	204	IZMI	42 SER	1107.5	1107.8	2.3	50.0			
	204	IZMI	41 F	1109.8	1110.7	1.8	154.0			
245	SVTO	8 S	1125.0	1125.0		83.0			QL=4 ST=2 TYP=3	
204	IZMI	45 C	1125.5	1125.6	0.3	246.0				
2800	PENT	40 F	1609.0	1622.0	24.0	22.0				
9500	CUBA	2 S/F	1620.0	1622.8	10.5	53.0	26.0			
6700	CUBA	4 S/F	1620.8	1623.2	8.1	123.0	61.0		2L	
2695	SGMR	46 C	1621.0	1622.0	2.0	33.0			QL=4 ST=3 TYP=8	
4995	SGMR	48 C	1621.0	1626.0	7.0	84.0			QL=4 ST=3 TYP=8	
8800	SGMR	48 C	1621.0	1622.0	7.0	90.0			QL=4 ST=3 TYP=8	
15400	SGMR	48 C	1621.0	1626.0	9.0	63.0			QL=4 ST=3 TYP=8	
2800	PENT	1 S	1704.0	1711.0	13.0	43.0				
4995	SGMR	4 S/F	1707.0	1711.0	5.0	64.0			QL=4 ST=3 TYP=3	
15400	SGMR	4 S/F	1707.0	1711.0	10.0	62.0			QL=4 ST=3 TYP=3	
6700	CUBA	1 S	1707.0	1711.4	6.0	39.0	13.0		19L	
9500	CUBA	2 S/F	1707.9	1711.2	6.1	28.0	14.0			
2695	SGMR	4 S/F	1709.0	1711.0	3.0	56.0			QL=4 ST=3 TYP=3	
8800	SGMR	8 S	1710.0	1711.0	1.0	43.0			QL=4 ST=3 TYP=3	
610	SGMR	8 S	1711.0	1711.0		47.0			QL=4 ST=3 TYP=3	
1415	SGMR	8 S	1711.0	1711.0		34.0			QL=4 ST=3 TYP=3	
2800	PENT	29 PBI	2058.0	2106.0	34.0U	100.0				

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

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
20	4995	PALE	8 S	2105.0	2105.0	1.0	77.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2105.0	2106.0	3.0	81.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2105.0	2106.0	1.0	88.0			QL=4 ST=3 TYP=3
	4995	SGMR	8 S	2105.0	2106.0	1.0	69.0			QL=4 ST=3 TYP=3
	8800	SGMR	8 S	2105.0	2106.0	2.0	80.0			QL=4 ST=3 TYP=3
	610	PALE	8 S	2106.0	2106.0	U	100.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2106.0	2106.0	U	44.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2106.0	2106.0	1.0	85.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2106.0	2106.0	U	61.0			QL=4 ST=3 TYP=3
	1415	SGMR	8 S	2106.0	2106.0	U	37.0			QL=4 ST=3 TYP=3
	15400	PALE	8 S	2107.0	2107.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2110.0	2110.0	U	51.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	2333.0	2333.0	1.0	140.0			0
	245	LEAR	8 S	2333.0	2333.0	U	260.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2333.0	2333.0	U	220.0			QL=4 ST=2 TYP=3
21	127	TORN	44 NS	1150.0E	1228.7	190.0D	330.0	24.0		V=1
	200	HIRA	8 S	0101.0	0101.0	1.0	255.0			0
	245	LEAR	8 S	0101.0	0101.0	U	66.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0737.0	0737.0	1.0	50.0			0
	900	GORK	4 S/F	0836.1	0836.3	0.5	21.0			
	900	GORK	1 S	0905.2	0905.3	0.3	12.0			
	3000	IZMI	20 GRF	0927.5	0928.5	1.4	11.0	6.0		
	410	SVTO	8 S	1222.0	1222.0	U	94.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1226.0	1226.0	U	60.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1257.0	1259.0	2.0	120.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1645.0	1648.0	6.0	6.0			
	2800	PENT	41 F	2028.0	2029.0	17.0	35.0			
	1415	SGMR	8 S	2029.0	2029.0	1.0	66.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2029.0	2030.0	1.0	28.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	2029.0	2029.0	2.0	87.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2029.0	2029.0	1.0	95.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2030.0	2030.0	U	60.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2030.0	2030.0	1.0	91.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2030.0	2030.0	U	86.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2032.0	2032.0	U	45.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2341.0	2356.0	56.0U	73.0			
	2804	VORO	45 C	2345.0	2357.0	30.0	91.0			
	500	HIRA	4 S/F	2349.0	2357.0	14.0	10.0			0
	2800	HIRA	7 C	2349.0	2356.0	22.0	100.0			0
4995	LEAR	4 S/F	2353.0	2356.0	50.0	85.0			QL=4 ST=2 TYP=3	
8800	LEAR	20 GRF	2353.0	0008.0	61.0	83.0			QL=4 ST=2 TYP=2	
1415	LEAR	4 S/F	2354.0	2356.0	6.0	230.0			QL=4 ST=2 TYP=3	
2695	LEAR	4 S/F	2354.0	2356.0	23.0	89.0			QL=4 ST=2 TYP=3	
15400	LEAR	8 S	2356.0	2358.0	2.0	24.0			QL=4 ST=2 TYP=3	
2840	PEKG	3 S	2356.2E	2356.4	28.0D	94.2				
22	235	CUBA	44 NS	1310.0E		110.0D		5.0		
	280	CUBA	44 NS	1310.0E		110.0D		17.0		
	2804	VORO	29 PBI	0015.0	0015.0	115.0	30.8			
	200	HIRA	8 S	0055.0	0055.0	1.0	30.0			0
	410	LEAR	8 S	0300.0	0300.0	1.0	130.0			QL=4 ST=2 TYP=3
	900	GORK	2 S/F	0752.5	0752.7	0.9	10.0			
	204	IZMI	41 F	0831.3	0833.8	3.0	11.0			
	9100	GORK	3 S	0852.9	0853.1	0.7	180.0			
	9100	GORK	1 S	0943.7	0944.0	1.2	5.0			
	9100	GORK	1 S	0959.2	1001.0	1.8	15.0			
	245	SGMR	8 S	2107.0	2107.0	U	70.0			QL=4 ST=2 TYP=3
	1415	PALE	48 C	2354.0	2356.0	2.0	200.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	2355.0	2356.0	5.0	86.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	2355.0	2356.0	30.0	100.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	2356.0	2356.0	U	55.0			QL=4 ST=2 TYP=8
8800	PALE	48 C	2358.0	0010.0	27.0	71.0			QL=4 ST=2 TYP=8	
23	127	TORN	43 NS	0930.0		330.0		18.0		V=0
	245	SGMR	43 NS	1348.0	1446.0	58.0	63.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1400.0E		420.0D		9.0		
	280	CUBA	44 NS	1400.0E		420.0D		20.0		
	2804	VORO	21 GRF	0104.0	0152.0	134.0	7.4			

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

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FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
23	9100	GORK	1 S	0805.4	0806.1	1.8	22.0U			
	900	GORK	2 S/F	1013.6	1013.8	0.6	10.0			
	245	SGMR	8 S	1225.0	1225.0	U	61.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2244.0	2248.0	46.0	11.0			
24	127	TORN	43 NS	0910.0		350.0		13.0		V=0
	235	CUBA	44 NS	1320.0E		70.0D		5.0		
	280	CUBA	44 NS	1320.0E		70.0D		20.0		
	500	HIRA	8 S	0149.0	0150.0	2.0	220.0			0
	200	HIRA	8 S	0149.0	0150.0	1.0	55.0			0
	245	LEAR	8 S	0149.0	0150.0	1.0	85.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0149.0	0150.0	1.0	96.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0149.0	0150.0	2.0	260.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0534.0	0534.0	1.0	35.0			0
	2840	PEKG	1 S	0628.0	0630.1	5.0	6.6			
	610	LEAR	8 S	0629.0	0629.0	U	190.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0629.0	0629.0	U	310.0			QL=4 ST=2 TYP=3
	900	GORK	4 S/F	0629.7	0629.9	1.5	160.0			
	600	GORK	4 S/F	0629.7	0629.9	0.8	200.0U			
	9100	GORK	1 S	0629.8	0630.0	1.0	8.4			
	2950	GORK	1 S	0629.8	0630.0	0.5	6.2			
	1415	SVTO	8 S	0630.0	0630.0	U	24.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0647.0	0647.0	1.0	55.0			0
	600	GORK	21 GRF	0803.7	0806.5	11.3	5.3			
	600	GORK	41 F	0805.3	0806.0		24.0			
	600	GORK	41 F	0805.3	0805.5	1.0	11.0			
	204	IZMI	46 C	0805.9	0806.4	0.9	98.0			
	245	LEAR	8 S	0806.0	0806.0	U	70.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0806.0	0806.0	U	23.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0806.0	0806.0	U	65.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0806.0	0806.0	U	24.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0831.0	0831.8	3.0	10.0			
	33	UPIC	45 C	1246.5	1247.0	1.0				
	6700	CUBA	1 S	1422.0	1423.0	2.0	14.0	7.0		37R
	410	SVTO	4 S/F	1436.0	1437.0	3.0	18.0			QL=4 ST=3 TYP=3
	610	SVTO	4 S/F	1436.0	1437.0	3.0	18.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1436.0	1437.0	3.0	50.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1437.0	1437.0	U	29.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1437.0	1437.0	U	60.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1536.0	1537.0	2.0	54.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1536.0	1537.0	2.0	39.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1536.0	1537.0	2.0	62.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1536.8	1537.8	2.2	11.0	5.0		25R
	15400	SGMR	8 S	1537.0	1537.0	1.0	76.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1537.0	1537.8	3.0	36.0	18.0		
2800	PENT	1 S	1626.0	1629.0	5.0	4.0				
2800	PENT	29 PBI	1721.0	1724.0	11.0U	4.0				
9500	CUBA	2 S/F	1724.0	1724.5	1.8	35.0	17.0			
9500	CUBA	21 GRF	2024.0	2038.0	94.0	13.0	6.0			
9500	CUBA	2 S/F	2032.5	2033.2	4.7	12.0	6.0			
245	SGMR	8 S	2121.0	2121.0	U	79.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	2307.0	2307.0	1.0	1.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	2307.0	2307.0	1.0	100.0			QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	2311.0	2316.0	66.0	44.0				
2800	HIRA	1 S	2315.0	2316.0	4.0	55.0			0	
15400	LEAR	48 C	2315.0	2316.0	2.0	100.0			QL=4 ST=2 TYP=8	
4995	LEAR	8 S	2315.0	2316.0	2.0	73.0			QL=4 ST=2 TYP=3	
8800	LEAR	8 S	2315.0	2316.0	2.0	100.0			QL=4 ST=2 TYP=3	
2695	LEAR	4 S/F	2315.0	2316.0	3.0	53.0			QL=4 ST=2 TYP=3	
15400	PALE	48 C	2315.0	2315.0	U	55.0			QL=4 ST=2 TYP=8	
4995	PALE	8 S	2315.0	2315.0	1.0	73.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	2315.0	2315.0	1.0	100.0			QL=4 ST=2 TYP=3	
25	204	IZMI	44 NS	0720.0E		280.0D		20.0		
	127	TORN	44 NS	0930.0E		310.0D		16.0		V=2
	245	SGMR	43 NS	1325.0	1333.0	8.0	89.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1330.0E		90.0D		9.0		
	280	CUBA	44 NS	1330.0E		90.0D		24.0		
	245	LEAR	8 S	0103.0	0105.0	2.0	92.0			QL=4 ST=2 TYP=3

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Outstanding Occurrences

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
25	245	PALE	8 S	0105.0	0105.0	U	120.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0106.0	0106.0		20.0			0
	2804	VORO	3 S	0148.3	0149.8	4.2	5.4			
	2804	VORO	2 S/F	0245.4	0246.6	3.0	11.0			
	2840	PEKG	5 S	0254.0	0256.8	6.0	12.3			
	8800	LEAR	8 S	0255.0	0256.0	2.0	62.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0255.0	0256.0	2.0	53.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0256.0	0256.0	1.0	36.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0444.0	0449.0	8.0	34.9			
	2804	VORO	40 F	0448.0	0449.1	2.0	30.6			
	900	GORK	40 F	0936.6	0936.7	0.6	20.0			
	900	GORK	40 F	0936.6	0936.9		27.0			
	600	GORK	2 S/F	0945.2	0945.6	0.5	12.0			
	204	IZMI	42 SER	0950.4	0952.4	5.6	71.0			
	410	SVTO	8 S	0956.0	0958.0	2.0	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1204.0	1204.0	U	53.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1240.0	1240.0	U	53.0			QL=4 ST=2 TYP=3
	2800	PENT	40 F	1550.0	1553.0	6.0	9.0			
	245	SGMR	8 S	1637.0	1637.0	U	55.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	1802.0	1802.0	U	57.0			QL=4 ST=2 TYP=8
	2800	PENT	1 S	1840.0	1842.0	5.0	6.0			
	2800	PENT	29 PBI	2123.0	2126.0	9.0U	150.0			
	8800	PALE	48 C	2126.0	2126.0	U	77.0			QL=4 ST=2 TYP=8
	1415	PALE	8 S	2126.0	2126.0	U	44.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2126.0	2126.0	1.0	110.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2126.0	2126.0	U	120.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2126.0	2126.0	1.0	54.0			QL=2 ST=2 TYP=3
	2695	SGMR	8 S	2126.0	2126.0	1.0	160.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	2126.0	2126.0	1.0	110.0			QL=2 ST=2 TYP=3
	8800	SGMR	8 S	2126.0	2126.0	U	49.0			QL=2 ST=2 TYP=3
6700	CUBA	3 S	2126.1	2126.3	1.8	102.0	51.0		6L	
9500	CUBA	1 S	2126.1	2126.3	1.7	52.0	26.0			
26	127	TORN	44 NS	1350.0E		70.0D		9.0		V=0
	235	CUBA	44 NS	1400.0E		470.0D		6.0		
	280	CUBA	44 NS	1400.0E		470.0D		18.0		
	245	LEAR	8 S	0018.0	0018.0	U	130.0			QL=4 ST=2 TYP=3
	2804	VORO	20 GRF	0020.0	0101.0	72.0	13.1			
	245	LEAR	8 S	0335.0	0336.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0335.0	0336.0	1.0	81.0			QL=4 ST=2 TYP=3
	600	GORK	46 C	0754.3	0754.4	0.6	6.9			
	600	GORK	46 C	0754.3	0754.7		15.0			
	600	GORK	40 F	0807.2	0807.7	0.7	9.7			
	900	GORK	7 C	0946.0	0946.5	1.2	2.3			
	900	GORK	7 C	0946.0	0946.9		5.8			
	900	GORK	42 SER	1009.5	1026.1		9.3			
	900	GORK	42 SER	1009.5	1025.2		13.0			
	900	GORK	42 SER	1009.5	1013.7	17.4	8.2			
	4995	SVTO	8 S	1021.0	1023.0	2.0	22.0			QL=4 ST=2 TYP=3
	1415	LEAR	46 C	1026.0	1026.0	1.0	32.0			QL=2 ST=2 TYP=8
	2695	LEAR	8 S	1026.0	1026.0	1.0	300.0			QL=2 ST=2 TYP=3
	4995	LEAR	8 S	1026.0	1026.0	1.0	250.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	1026.0	1026.0	U	110.0			QL=2 ST=2 TYP=3
	1415	SVTO	8 S	1026.0	1027.0	1.0	42.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1026.0	1026.0	1.0	220.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1026.0	1026.0	1.0	190.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1026.0	1026.0	1.0	81.0			QL=4 ST=2 TYP=3
	2950	GORK	4 S/F	1026.0	1026.9	3.5	1000.0			
	9100	GORK	4 S/F	1026.2	1026.8	3.2	150.0			
	3000	IZMI	45 C	1026.2	1026.9	2.6	305.0	90.0		
127	TORN	49 GB	1349.0U	1400.0	15.6D	6500.0U	920.0			
245	SVTO	8 S	1350.0	1350.0	U	130.0			QL=4 ST=2 TYP=3	
410	SVTO	4 S/F	1350.0	1351.0	5.0	43.0			QL=4 ST=2 TYP=3	
6700	CUBA	2 S/F	1350.0	1352.1	3.8	17.0	8.0		51L	
410	SGMR	8 S	1351.0	1353.0	2.0	37.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1351.0	1351.0	U	23.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1354.0	1354.0	1.0	240.0			QL=4 ST=2 TYP=3	
33	UPIC	46 C	1403.5	1404.0	2.0					
2800	PENT	20 GRF	1555.0	1638.0	97.0U	17.0				

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

31
Feb 02

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
26	2800	PENT	24 R	1855.0	1932.0	37.0U	5.0			
27	127	TORN	43 NS	0810.0		410.0		16.0		V=0
	235	CUBA	44 NS	1305.0E		525.0D		6.0		
	280	CUBA	44 NS	1305.0E		525.0D		17.0		
	200	HIRA	8 S	0051.0	0051.0	1.0	40.0			0
	245	LEAR	8 S	0051.0	0051.0	1.0	83.0			QL=4 ST=3 TYP=3
	2804	VORO	21 GRF	0315.0	0403.0	75.0	7.4			
	2840	PEKG	45 C	0444.0	0448.3	8.0	8.1			
	2804	VORO	46 C	0446.2	0446.5	5.0	7.8			
	200	HIRA	42 SER	0447.0	0447.0	23.0	20.0			0
	245	LEAR	4 S/F	0511.0	0051.0	41.0	83.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0523.0	0523.0	1.0	50.0			0
	245	LEAR	8 S	0523.0	0523.0	U	93.0			QL=4 ST=2 TYP=3
	900	GORK	2 S/F	0737.0	0737.1	0.4	11.0			
	900	GORK	42 SER	0834.5	0836.8		8.9			
	900	GORK	42 SER	0834.5	0834.8	31.0	20.0			
	204	IZMI	42 SER	0844.2	0850.1	14.7	143.0			
	900	GORK	3 S	0942.6	0942.8	0.3	19.0			
	600	GORK	2 S/F	0945.5	0945.8	0.5	17.0			
	9100	GORK	40 F	1013.1	1013.4	0.7	26.0			
	600	GORK	1 S	1022.5	1022.9	0.5	11.0			
	204	IZMI	42 SER	1150.5	1151.2	1.5	52.0			
	204	IZMI	42 SER	1154.1	1158.6	5.1	114.0			
	245	SGMR	8 S	1239.0	1239.0	U	58.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1252.9	1253.5	4.9	40.0	20.0		
	9500	CUBA	2 S/F	1257.5	1258.0	14.0	14.0	7.0		
	4995	SGMR	8 S	1337.0	1337.0	U	51.0			QL=4 ST=2 TYP=3
	2800	PENT	40 F	1548.0	1553.0	11.0	13.0			
	4995	SVTO	8 S	1553.0	1553.0	2.0	27.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1553.0	1553.0	2.0	47.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1553.0	1553.0	2.0	53.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1629.0	1629.0	U	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1634.0	1634.0	U	64.0			QL=4 ST=2 TYP=3
200	HIRA	8 S	2206.0	2206.0	1.0	40.0			0	
2804	VORO	46 C	2348.2	2412.5		14.6				
2804	VORO	46 C	2348.2	2349.7	18.6	12.6				
2800	PENT	40 F	2354.0	0011.0	27.0	12.0				
2840	PEKG	45 C	2355.0	2359.8	12.0	8.1				
28	127	TORN	44 NS	0700.0E		480.0D		14.0		V=0
	235	CUBA	44 NS	1310.0E		80.0D		6.0		
	280	CUBA	44 NS	1310.0E		80.0D		17.0		
	245	SGMR	43 NS	1649.0	1708.0	66.0	83.0			QL=4 ST=2 TYP=1
	900	GORK	40 F	0742.4	0742.9	2.6	9.0			
	204	IZMI	7 C	0852.8	0852.9	0.1	15.0			
	900	GORK	4 S/F	0923.1	0925.6	2.5	18.0			
	204	IZMI	41 F	0923.4	0923.4	0.5	224.0			
	3000	IZMI	45 C	0923.9	0925.2	4.9	35.0	13.0		
	4995	SVTO	4 S/F	0924.0	0925.0	3.0	69.0			QL=4 ST=2 TYP=3
	2950	GORK	4 S/F	0924.0	0925.2	4.5	24.0			
	204	IZMI	42 SER	0924.2	0925.3	1.9	20.0			
	600	GORK	46 C	0924.3	0925.3	4.4	26.0			
	600	GORK	46 C	0924.3	0925.6		25.0			
	9100	GORK	45 C	0924.6	0925.8		44.0			
	9100	GORK	45 C	0924.6	0924.9	3.8	6.8			
	8800	SVTO	8 S	0925.0	0925.0	U	25.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1413.0	1414.0	2.0	230.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1414.0	1414.0	1.0	34.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1414.0	1414.0	U	220.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1414.0	1414.5	2.0				
	127	TORN	4 S/F	1414.2	1414.9	1.7	3400.0	460.0		
	245	SGMR	8 S	1436.0	1436.0	2.0	61.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1712.0	1712.0	U	52.0			QL=4 ST=2 TYP=3
2800	PENT	29 PBI	1903.0	1917.0	29.0U	15.0				
245	PALE	8 S	1940.0	1940.0	U	620.0			QL=2 ST=2 TYP=3	
410	PALE	8 S	1940.0	1940.0	U	190.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	1940.0	1940.0	U	130.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1940.0	1940.0	U	150.0			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

FEBRUARY 2002

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
28	610	SGMR	8 S	1940.0	1940.0	U	89.0			QL=4 ST=2 TYP=3	
			29 PBI	2046.0	2057.0	40.0	14.0				
	245	SGMR	8 S	2055.0	2056.0	2.0	340.0			QL=4 ST=2 TYP=3	
			8 S	2055.0	2055.0	U	25.0			QL=4 ST=2 TYP=3	
			2800	PENT	45 C	2231.0	2238.0	12.0	7.0		
			200	HIRA	8 S	2238.0	2240.0	2.0	20.0		0

Reports are received routinely from the following observatories:

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

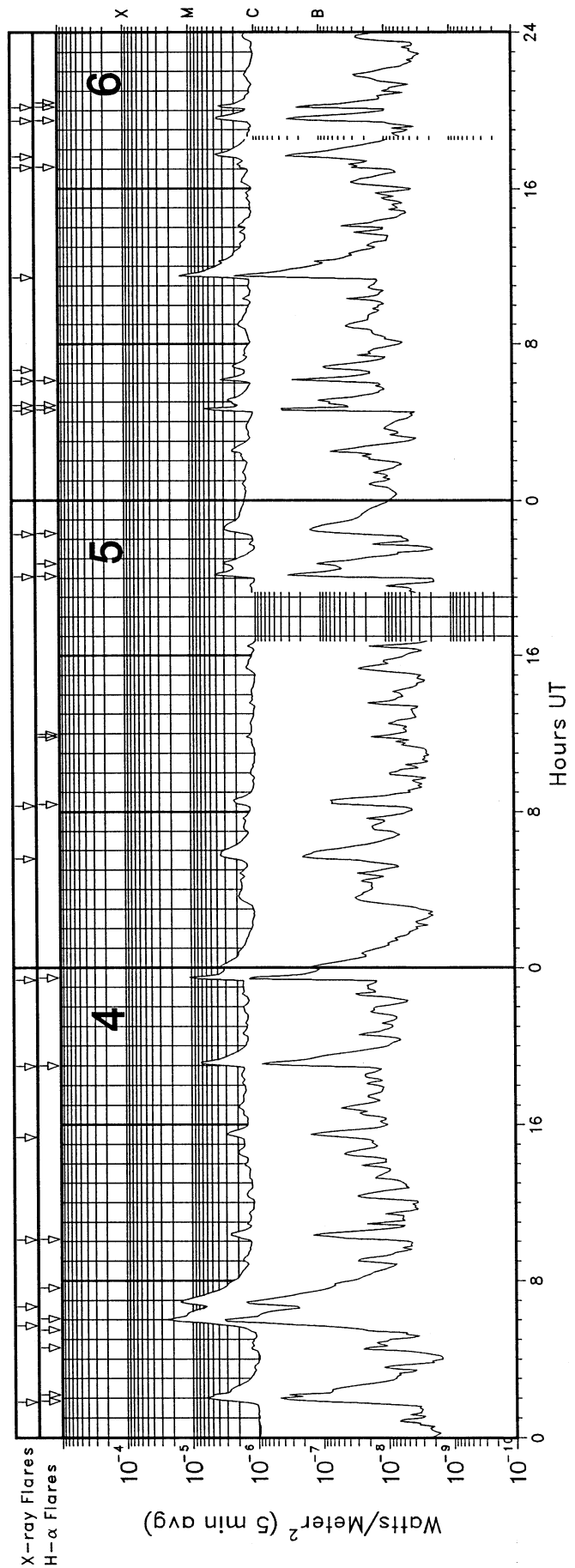
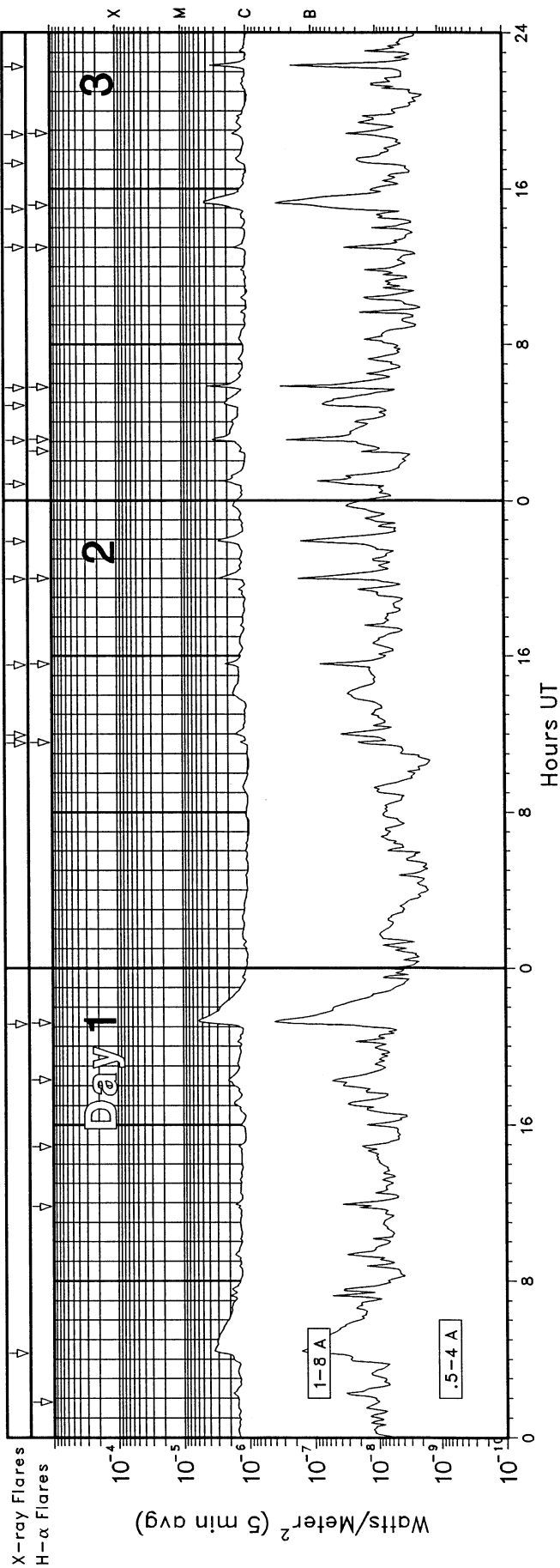
Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A	

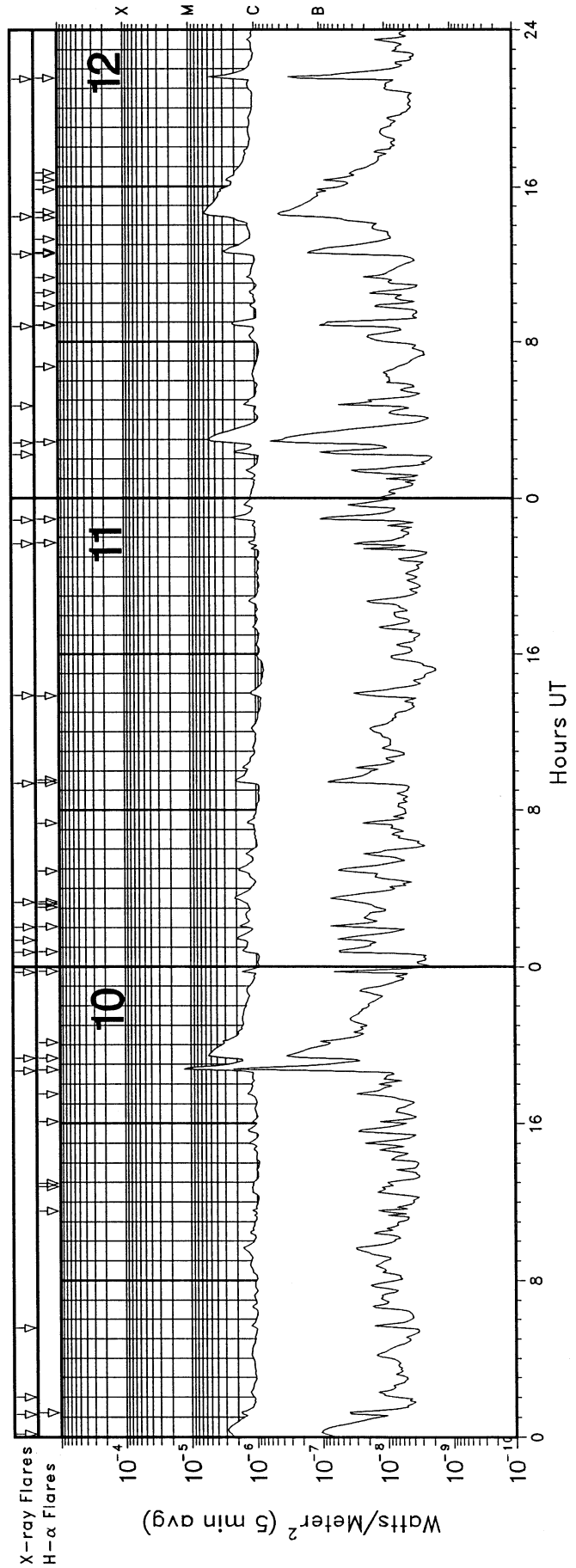
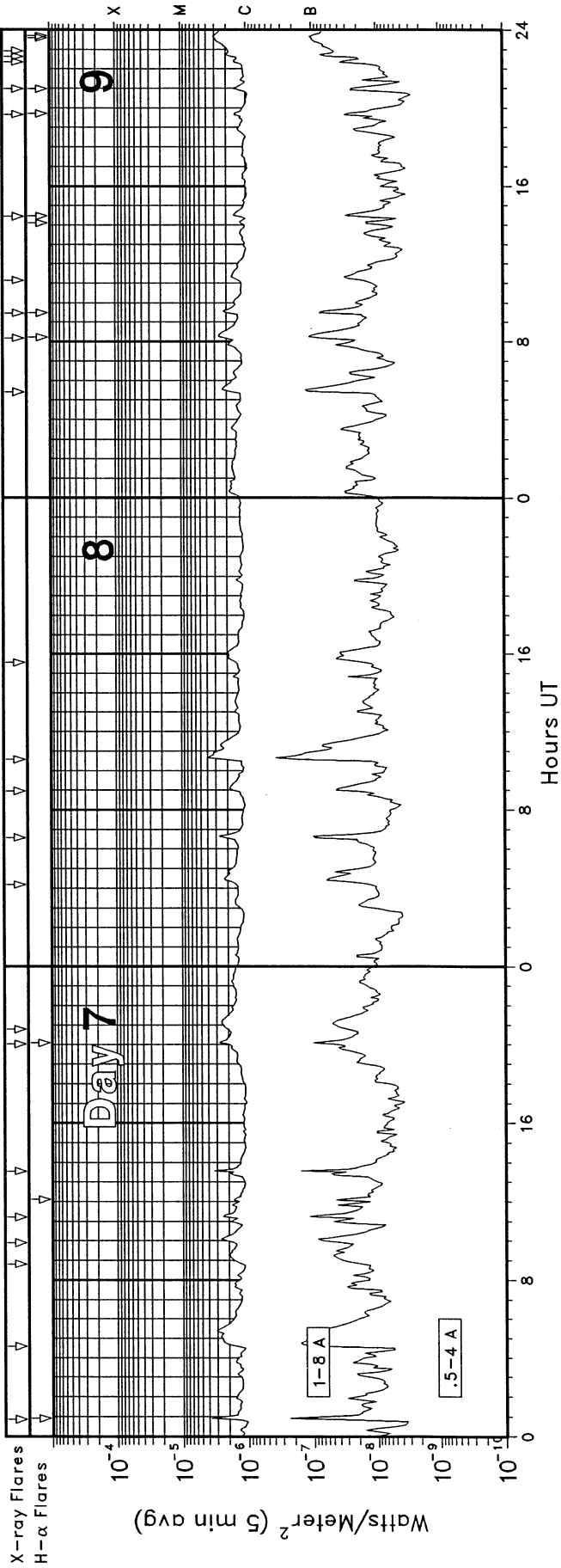
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; and Hiraiso, Japan 500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

GOES X-RAY DETECTOR

February 2002

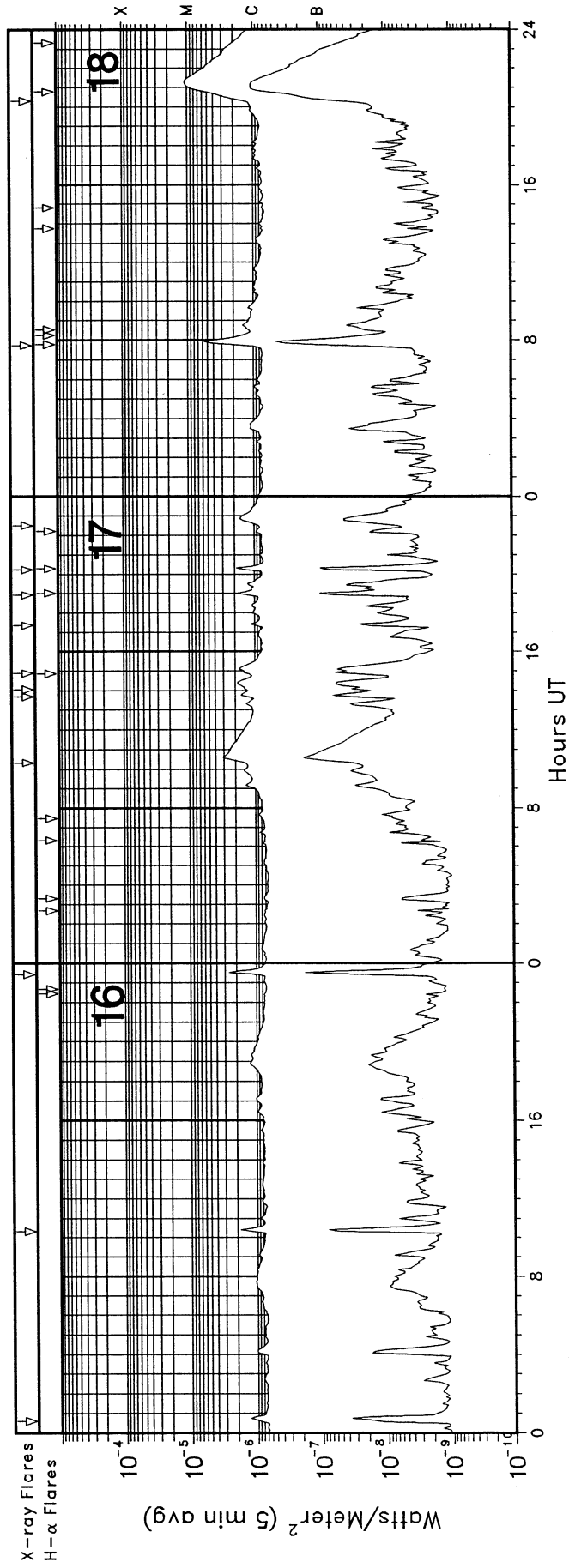
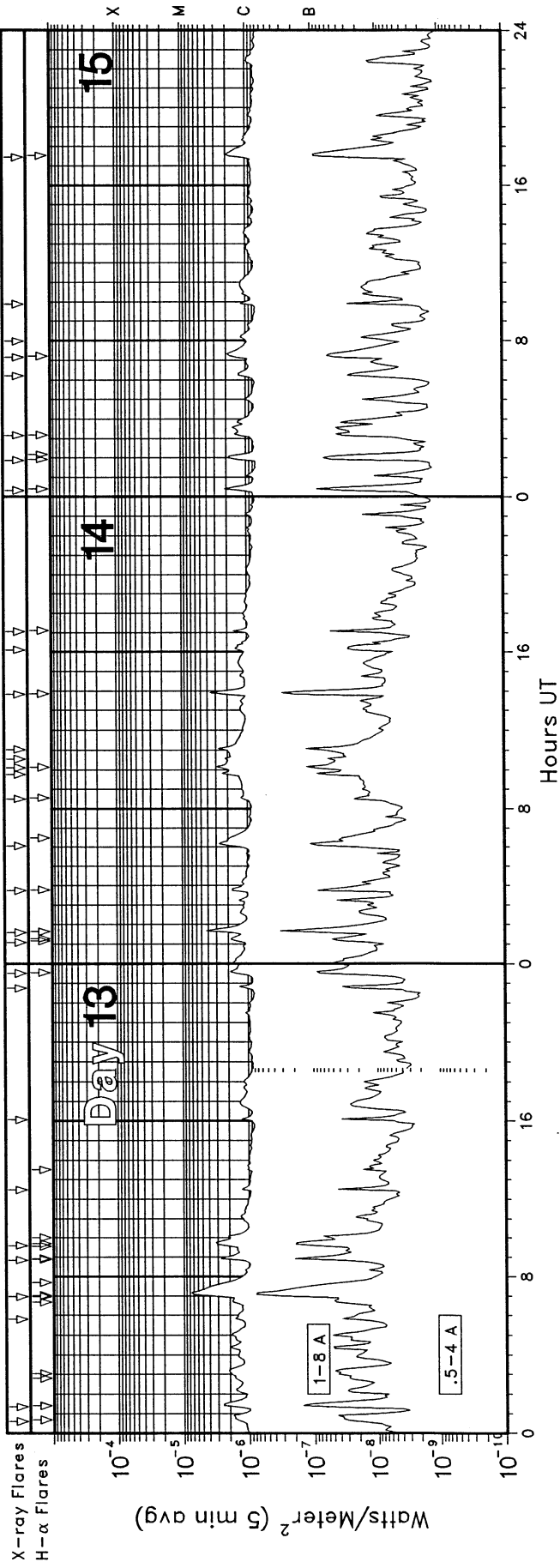


GOES X-RAY DETECTOR February 2002

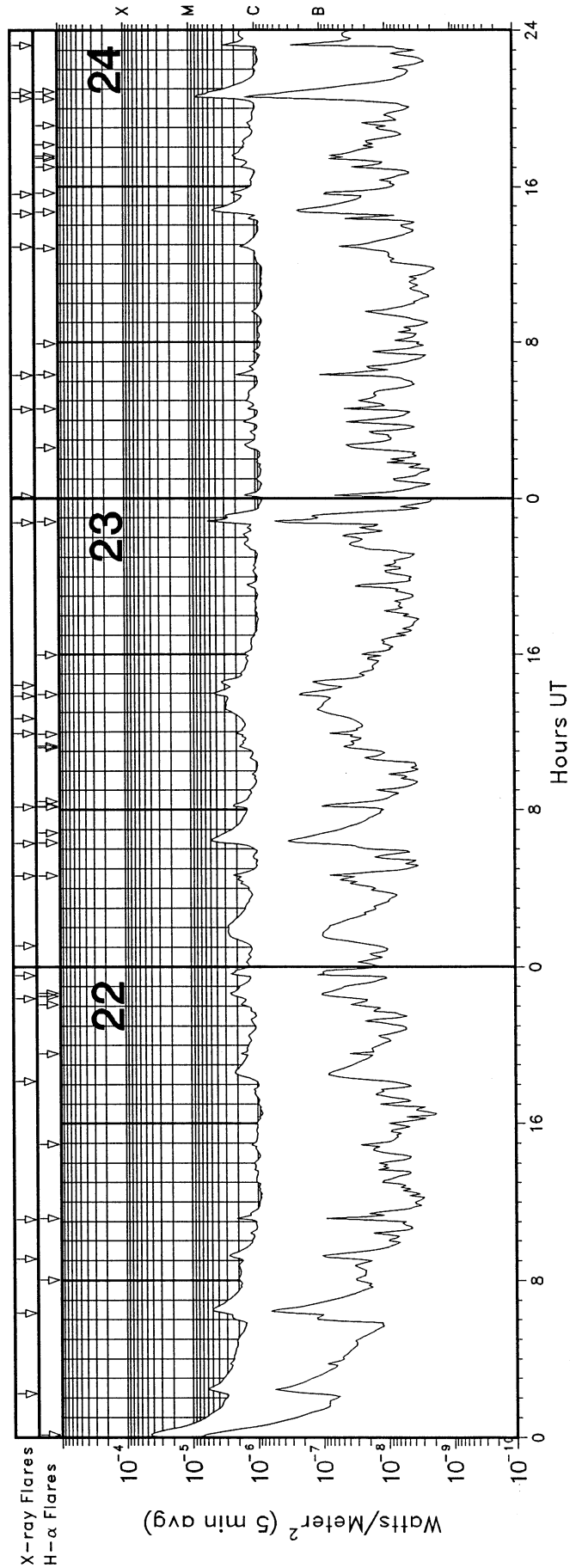
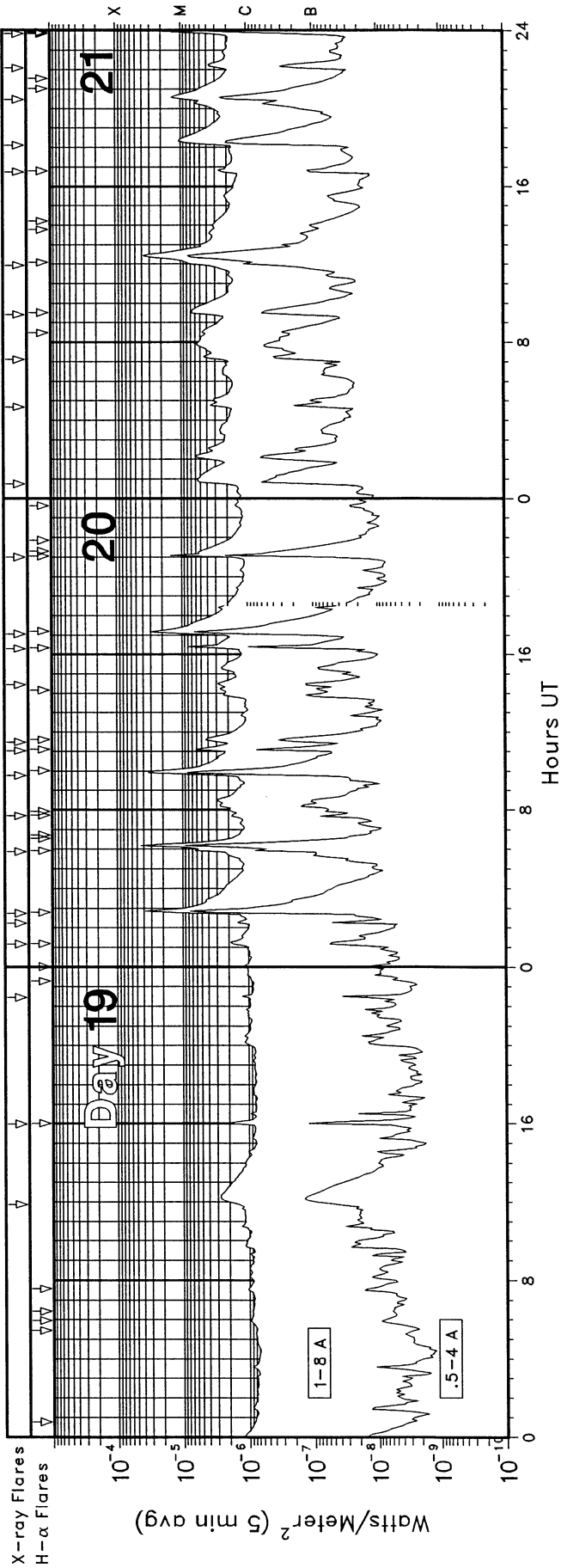


GOES X-RAY DETECTOR

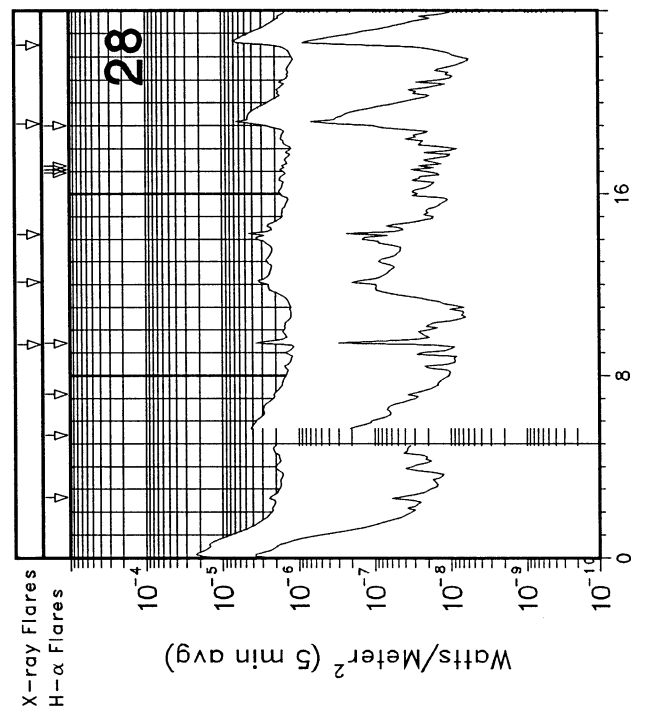
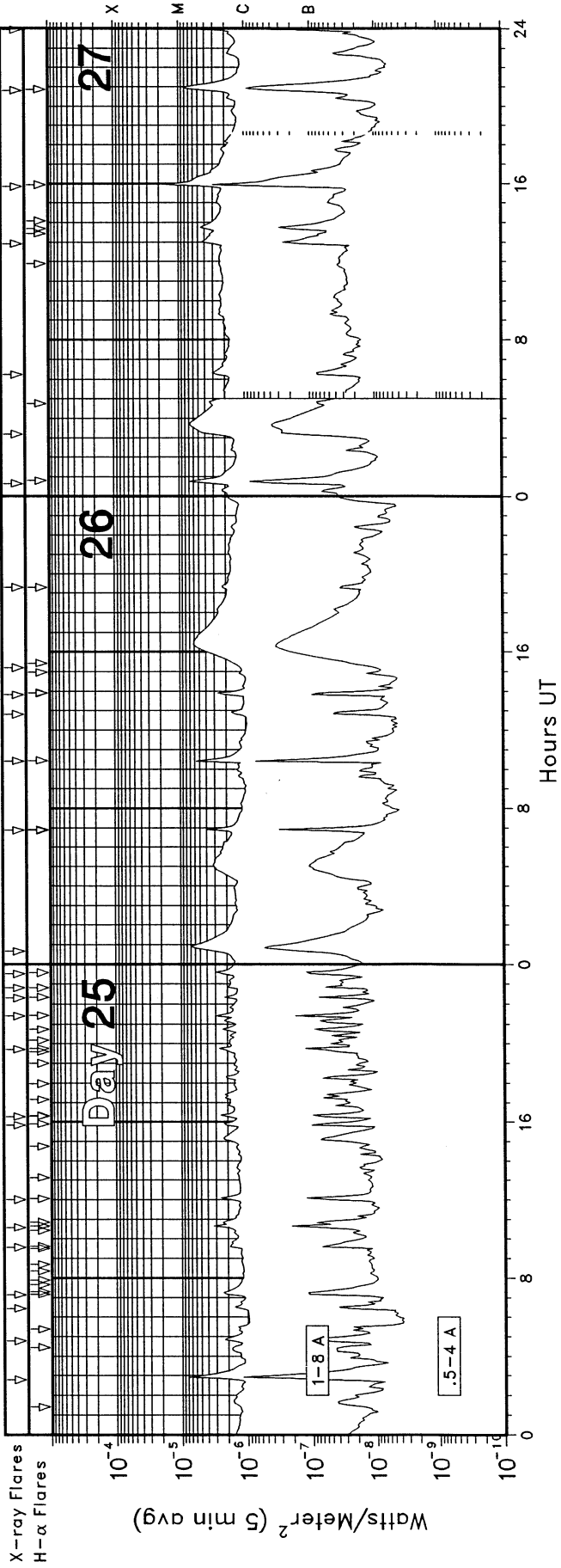
February 2002



GOES X-RAY DETECTOR February 2002



GOES X-RAY DETECTOR February 2002



GOES SOLAR X-RAY FLARES
Preliminary Listing

February 2002

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	0418	0427	0523				C3.4	9797	1.2E-02
01	2108	2120	2139	N05	W31	SF	C5.8	9800	8.4E-03
02	1132	1135	1137				C1.4		3.9E-04
02	1157	1203	1209				C1.5		1.0E-03
02	1532	1536	1541	S18	W13	SF	C2.2	9802	1.1E-03
02	1957	2003	2010	S19	W16	SF	C2.9	9802	1.7E-03
02	2154	2158	2201				C2.9		1.1E-03
03	0050	0101	0107				C2.3		1.8E-03
03	0303	0307	0314	S19	W17	SF	C3.7	9802	1.9E-03
03	0450	0454	0514				C2.3		2.9E-03
03	0545	0553	0555	S27	E32	SF	C4.7	9807	1.7E-03
03	1259	1303	1307	N15	E20	SF	C1.4	9808	6.7E-04
03	1457	1519	1532	S17	W27	SF	C4.4	9802	6.0E-03
03	1718	1738	1744				C1.3		2.0E-03
03	1847	1852	1858	S26	E25	SF	C1.7	9807	9.6E-04
03	2216	2221	2225				C3.7		1.4E-03
04	0148	0211	0213	S03	W42	1F	C7.3	9801	6.8E-03
04	0542	0602	0611				M2.3		2.3E-02
04	0641	0658	0709				M1.5		1.9E-02
04	1006	1024	1032	S13	W25	SF	C2.7	9802	3.3E-03
04	1522	1531	1542				C3.0		3.0E-03
04	1858	1909	1918	S13	W31	SF	C7.8	9802	6.5E-03
04	2323	2330	2334	S13	W42	SF	M1.3	9802	5.5E-03
05	0535	0549	0607				C3.6		6.3E-03
05	0819	0837	0845	S16	W37	SF	C2.2	9816	3.0E-03
05	2004	2013	2022	S10	E07	1F	C4.4	9809	3.5E-03
05	2216	2233	2257	N17	W09	SF	C3.0	9808	6.0E-03
06	0433	0440	0443	S17	W48	SF	C8.2	9816	2.9E-03
06	0451	0509	0513	S17	W50	SF	C2.9	9816	3.0E-03
06	0606	0611	0619	S22	E44	SF	C3.3	9811	2.0E-03
06	0640	0651	0703				C2.1		2.6E-03
06	1126	1132	1141				M1.4		9.0E-03
06	1704	1707	1711	S11	W54	SF	C1.7	9816	6.6E-04
06	1738	1745	1752				C4.1		2.8E-03
06	1928	1939	1947	S25	E34	SF	C4.0	9811	3.5E-03
06	2010	2014	2017	N12	E31	SF	C5.3	9815	1.5E-03
07	0051	0056	0101	S14	W60	SF	C4.1	9816	1.7E-03
07	0435	0524	0540				C3.2		9.5E-03
07	0849	0919	0941				C1.9		5.3E-03
07	0954	1007	1025				C2.6		3.9E-03
07	1113	1118	1123				C2.7		1.4E-03
07	1333	1337	1339				C4.7		1.1E-03
07	2002	2007	2015	S10	W69	SF	C2.7	9816	1.9E-03
07	2047	2112	2124				C2.5		5.2E-03
08	0411	0431	0449				C2.2		4.3E-03
08	0635	0640	0645				C2.8		1.5E-03
08	0857	0908	0924				C1.8		2.7E-03
08	1034	1043	1104				C4.0		5.7E-03
08	1533	1605	1616				C1.9		4.6E-03
09	0524	0535	0553				C2.2		3.5E-03
09	0811	0817	0834	N15	E72	SF	C2.6	9822	3.3E-03
09	0928	0936	0944	S14	E13	SF	C2.2	9821	1.9E-03
09	1109	1122	1141				C1.6		2.9E-03
09	1427	1431	1446	N10	E67	SF	C1.5		1.6E-03
09	1940	1944	1947	S25	W07	SF	C1.7	9811	6.4E-04
09	2058	2100	2103	S14	E04	SF	C1.5	9821	4.4E-04

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
09	2221	2223	2227				C1.7		5.4E-04
09	2238	2247	2252				C2.0		1.5E-03
09	2255	2341	0004				C3.1	9821	1.0E-02
10	0009	0025	0036				C2.8		4.4E-03
10	0108	0115	0119	S14	E01	SF	C1.9	9821	1.1E-03
10	0200	0217	0224				C1.3		1.8E-03
10	0533	0542	0549				C1.2		1.1E-03
10	1840	1848	1853	S25	W15	2F	M1.6	9811	6.9E-03
10	1918	1928	1959	N08	E52	1F	C5.5	9825	1.1E-02
10	2343	2347	2351	S14	W12	SF	C1.8	9821	7.3E-04
11	0044	0049	0118	S12	W11	SF	C1.6	9821	3.0E-03
11	0122	0128	0135				C2.0		1.4E-03
11	0202	0208	0214				C1.8		1.2E-03
11	0318	0333	0340	S14	W12	SF	C2.1	9821	2.4E-03
11	0922	0929	0947	N17	E34	SF	C2.0	9822	2.6E-03
11	1353	1402	1406	S13	W19	SF	C1.2	9821	8.8E-04
11	2140	2144	2147	N10	E48	SF	C1.5	9825	5.4E-04
11	2253	2300	2308	N14	E37	SF	C2.3	9825	1.7E-03
12	0214	0221	0231				C2.0		1.7E-03
12	0249	0259	0322	S13	W30	SF	C5.2	9821	8.0E-03
12	0442	0447	0504				C1.4		1.7E-03
12	0848	0853	0906	N11	E40	SF	C2.3	9825	2.1E-03
12	1230	1240	1256	N13	E27	SF	C3.0	9825	3.8E-03
12	1427	1442	1514	N13	E36	1F	C5.8	9825	1.4E-02
12	2129	2136	2141	S25	W42	SF	C5.0	9811	2.6E-03
13	0036	0055	0058	N17	E22	SF	C1.9	9825	2.1E-03
13	0121	0125	0139	N15	E20	SF	C2.6	9825	2.4E-03
13	0548	0551	0554				C1.7		5.7E-04
13	0657	0712	0725	N17	E18	1N	C7.8	9825	9.3E-03
13	0851	0857	0905	N11	E23	SF	C2.8	9825	1.8E-03
13	0936	0948	0953	N17	E13	SF	C3.2	9822	2.9E-03
13	1228	1231	1236				C1.3		5.7E-04
13	1603	1607	1610				C1.4		5.0E-04
13	2245	2251	2254				C1.4		6.7E-04
13	2331	2335	2339	N12	E14	SF	C2.0	9825	8.6E-04
14	0105	0118	0127				C1.8	9826	2.0E-03
14	0135	0142	0148	N18	E04	1F	C4.5	9822	2.5E-03
14	0344	0349	0352	N12	E11	SF	C2.4	9825	8.4E-04
14	0604	0612	0622				C2.6		2.5E-03
14	0831	0834	0837	N11	E13	SF	C1.5	9825	4.6E-04
14	0946	0950	0955				C2.6		1.2E-03
14	1006	1010	1014	N12	E08	SF	C3.1	9825	1.3E-03
14	1033	1035	1037				C2.5		5.3E-04
14	1102	1106	1109				C2.9		1.1E-03
14	1349	1355	1402	N12	E05	SF	C3.9	9825	2.2E-03
14	1606	1609	1612				C1.8		5.4E-04
14	1703	1707	1711	N11	E04	SF	C1.7	9825	7.0E-04
15	0020	0026	0032	S03	E76	SF	C2.1	9829	1.2E-03
15	0153	0207	0211	N20	W12	SF	C1.9	9822	1.7E-03
15	0310	0336	0344	N21	W09	SF	C1.6	9825	2.8E-03
15	0612	0619	0628				C1.3		1.1E-03
15	0709	0720	0731	N21	W11	SF	C1.9	9825	2.2E-03
15	0758	0813	0821				C1.2		1.5E-03
15	0953	0958	1002				C1.3		5.9E-04
15	1726	1736	1753	S09	W77	SF	C1.9	9821	2.7E-03
16	0036	0048	0051				C1.7		1.0E-03
16	1019	1025	1031				C2.0		1.1E-03
16	2326	2332	2338				C2.7		1.4E-03

GOES SOLAR X-RAY FLARES
 Preliminary Listing

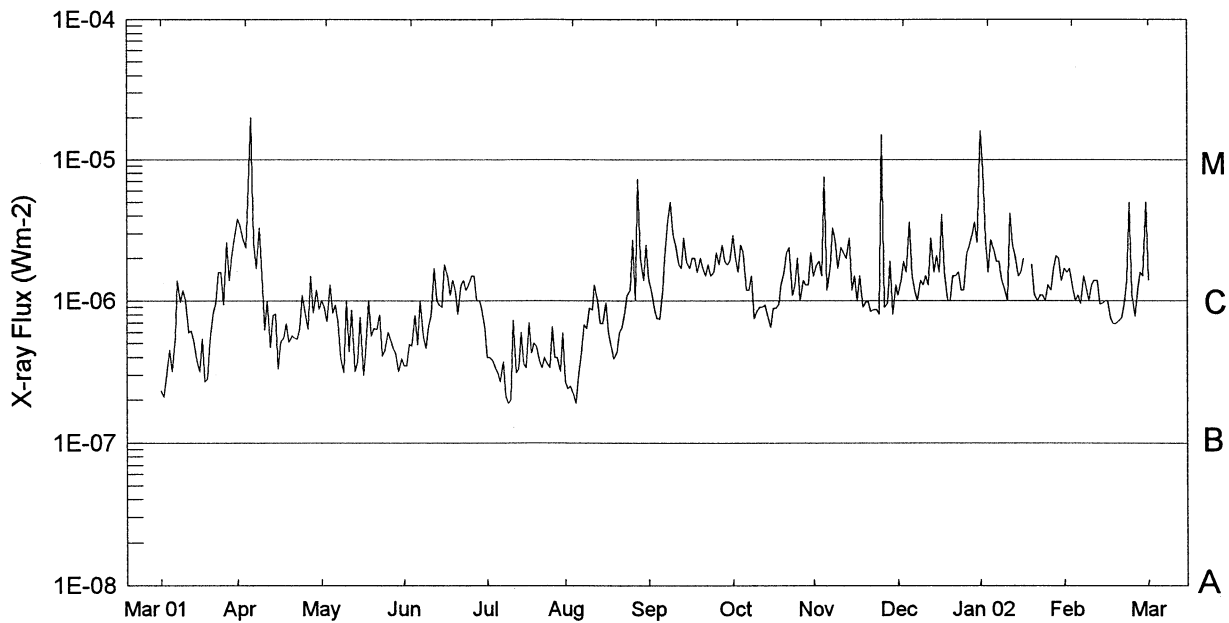
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 Feb 02

February 2002

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
17	1020	1037	1109			C3.1	7.1E-03	
17	1341	1349	1356			C1.8	1.3E-03	
17	1403	1422	1434			C1.8	3.0E-03	
17	1453	1507	1517	S20	E34	SF C1.7	9830	2.2E-03
17	1721	1725	1730			C1.1	5.7E-04	
17	1855	1901	1906	S19	E30	SF C1.9	9830	1.1E-03
17	2014	2019	2024	S18	E30	SF C2.3	9830	9.7E-04
17	2231	2253	2318			C1.6	3.7E-03	
18	0744	0757	0804	S06	E34	1F C5.9	9829	4.7E-03
18	2018	2115	2158	S20	E16	SF M1.0	9830	4.2E-02
19	1152	1219	1249			C2.7	7.8E-03	
19	1559	1603	1606	N18	W66	1F C2.9	9825	8.0E-04
19	2227	2231	2233			C1.3	4.3E-04	
20	0110	0114	0119	S16	W02	SF C2.1	9830	9.9E-04
20	0214	0218	0221			C1.7	6.1E-04	
20	0244	0251	0256	N15	W58	SF M4.2	9825	1.7E-02
20	0552	0612	0616	N12	W72	1N M5.1	9825	2.2E-02
20	0741	0744	0746	N17	W81	SF C2.5	9825	6.0E-04
20	0946	0959	1004	N18	W83	SF M4.3	9825	2.2E-02
20	1102	1107	1112	N15	W77	SF C7.5	9825	3.1E-03
20	1129	1139	1147	N21	W87	SF C4.5	9825	4.0E-03
20	1426	1429	1433			C3.1	1.2E-03	
20	1618	1626	1629	S16	W12	1N C9.7	9830	3.4E-03
20	1703	1711	1718	S09	W62	SF M3.5	1.7E-02	
20	2100	2107	2109	S18	W11	1B M2.4	9830	4.8E-03
21	0045	0054	0127			C5.7	1.2E-02	
21	0441	0448	0510			C3.6	9825	5.3E-03
21	0706	0757	0846			C5.6	2.7E-02	
21	0925	0932	0957	N12	W83	SF C7.0	9825	1.1E-02
21	1156	1226	1236			M3.9	4.4E-02	
21	1645	1648	1650	S17	W23	SF C3.5	9830	7.4E-04
21	1807	1823	1844			M1.0	1.7E-02	
21	2028	2037	2047			M1.4	1.3E-02	
21	2205	2215	2224			C3.9	3.7E-03	
21	2349	0010	0027			M4.4	9830	6.5E-02
22	0213	0229	0240			C6.0	7.8E-03	
22	0620	0630	0646			C5.0	6.9E-03	
22	0906	0918	0925			C2.7	2.8E-03	
22	1107	1112	1117			C2.2	1.1E-03	
22	1810	1839	1919			C2.2	7.1E-03	
22	2223	2241	2250	S21	W33	SF C2.7	9830	3.5E-03
22	2334	2339	2345	N11	E47	SF C2.9	9837	1.5E-03
23	0105	0147	0230			C2.8	1.2E-02	
23	0438	0443	0446	S16	W10	SF C2.2	9839	1.0E-03
23	0617	0630	0646	S18	W26	SF C4.9	9841	7.0E-03
23	0808	0812	0819	S20	W36	SF C2.6	9830	1.4E-03

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
23	1155	1158	1201	S19	W43	SF C2.1	9830	7.2E-04
23	1243	1315	1325			C2.9	6.0E-03	
23	1352	1400	1409	S21	W43	SF C4.3	9830	3.9E-03
23	1425	1437	1442			C3.4	3.2E-03	
23	2246	2250	2254	S15	W47	SF C7.0	9830	2.2E-03
24	0007	0012	0017			C1.5	7.7E-04	
24	0433	0438	0442	S19	W52	SF C1.3	9830	6.4E-04
24	0618	0622	0626	N23	E24	SF C2.2	9844	8.2E-04
24	1253	1256	1300			C1.7	6.7E-04	
24	1435	1447	1500	S18	W44	SF C4.4	9841	5.0E-03
24	1535	1540	1544	S19	W62	SF C2.4	9830	1.1E-03
24	2031	2038	2048	S16	W68	SF C9.0	9830	6.3E-03
24	2050	2052	2059	N21	E21	SF C5.2	9844	2.4E-03
24	2314	2317	2322			C3.7	1.3E-03	
25	0247	0257	0300			M1.0	3.5E-03	
25	0446	0451	0501			C2.2	1.8E-03	
25	0626	0631	0636			C1.6	8.7E-04	
25	0708	0717	0725	S13	W67	SF C2.4	9830	2.1E-03
25	0934	0937	0943	S04	W40	SF C2.2	9846	9.9E-04
25	1035	1041	1045	S02	W51	SF C3.5	9846	1.6E-03
25	1200	1205	1211	S01	W51	SF C2.7	9846	1.4E-03
25	1550	1554	1557	S16	W72	SF C3.3	9830	9.9E-04
25	1616	1619	1623	S04	W44	SF C3.0	9846	1.0E-03
25	1943	1946	1948	S15	W71	SF C3.2	9830	7.8E-04
25	2124	2127	2130	S14	W75	SF C4.1	9830	1.1E-03
25	2218	2222	2225	S02	W54	SF C2.3	9846	8.5E-04
25	2248	2254	2308	S18	W78	SF C2.0	9830	2.2E-03
25	2330	2335	2340	S04	W48	SF C3.0	9846	1.6E-03
26	0039	0056	0108			C7.0	9.1E-03	
26	0652	0656	0700			C4.4	9839	1.6E-03
26	1025	1027	1029	S13	W89	SF C9.6	9830	1.4E-03
26	1249	1254	1301			C1.7	1.1E-03	
26	1349	1355	1358	N13	E36	SF C3.5	9845	1.3E-03
26	1512	1632	1721			C6.1	3.1E-02	
26	1917	1919	1921	N11	W06	SF C2.3	9837	5.5E-04
27	0039	0047	0053	S19	W61	SF C7.1	9839	4.3E-03
27	0311	0346	0413			C6.8	2.0E-02	
27	0614	0620	0631			C3.1	2.8E-03	
27	1255	1302	1323			C4.3	6.2E-03	
27	1550	1558	1604	S18	W69	SF M1.6	9839	8.8E-03
27	2049	2058	2108	S18	W73	SF C7.9	9839	7.2E-03
27	2356	0012	0048			M2.2	4.7E-02	
28	0922	0927	0932	S21	E02	SF C4.0	9848	1.7E-03
28	1206	1209	1212			C4.2	1.3E-03	
28	1413	1416	1418			C5.5	1.3E-03	
28	1905	1910	1915	N22	W30	SF C7.6	9844	3.3E-03
28	2230	2240	2300			C7.4	9.9E-03	

Preliminary GOES Satellite Daily X-Ray Background Mar 2001 - Feb 2002



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

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Feb 02

FEBRUARY 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
01	BSL	0424	0508	S11	W90	01 25.5			9	9	E	LEAR	9797	S=2 C=
01	BSL	0424E	0000	S11	W90	01 25.5			9	9	E	LEAR	9797	S=1 C=1-
01	BSL	0424E	0000	S11	W90	01 25.5	3		9	9	E	LEAR	9797	S=1 C=1-
10	DSF	2145U	1130U	S40	E48	02 14.8		08	0	0	E	RAMY		S=2 C=
11	DSF	0006U	1438U	S41	E51	02 15.2		10	0	0	E	HOLL		S=2 C=
13	DSF	1032U	2249U	S15	W17	02 12.1		09	0	0	E	LEAR		S=2 C=
13	DSF	1541U	0640U	S22	W20	02 12.1		10	0	0	E	SVTO		S=3 C=
13	DSF	1541U	0640U	S22	W20	02 12.1		10	0	0	E	SVTO		S=2 C=32
18	DSF	1029U	2250U	N21	E37	02 21.3		07	0	0	E	LEAR		S=2 C=
19	DSF	0430	0550	S24	E21	02 20.8	2	10	0	0	E	LEAR		S=4 C=4-
19	DSF	0430	0550	S24	E21	02 20.8	2	10	0	0	E	LEAR		S=2 C=42
19	DSF	0430	0550	S24	E21	02 20.8	2	10	0	0	E	LEAR		S=3 C=
19	DSF	1411U	0633U	N42	E28	02 21.9		09	0	0	E	SVTO		S=2 C=
20	DSF	1024U	2310U	S24	E06	02 20.9		04	0	0	E	LEAR	9830	S=2 C=
21	DSF	0023U	1400U	N09	W76	02 15.3		28	0	0	E	HOLL		S=2 C=
21	EPL	0455	0000	N23	W90	02 14.3	1		9	9	E	LEAR	9825	S=2 C=32
21	EPL	0455	0532	N23	W90	02 14.3	1		9	9	E	LEAR	9825	S=3 C=
21	EPL	0558	0000	N24	W90	02 14.3	1		9	9	E	LEAR	9825	S=1 C=1-
21	EPL	0558	0608	N24	W90	02 14.3	1		9	9	E	LEAR	9825	S=2 C=
24	DSF	2239U	1421U	S39	W17	02 23.6		07	0	0	E	HOLL		S=2 C=
27	BSL	2357	0000	S24	W90	02 21.0	1		9	9	E	LEAR		S=1 C=1-
27	BSL	2357	0108	S24	W90	02 21.0	1		9	9	E	LEAR		S=2 C=
28	EPL	0005E	0000	S27	W90	02 21.0	3		0	0	E	HOLL		S=1 C=1-
28	EPL	0005E	0000	S27	W90	02 21.0	3		9	9	E	HOLL		S=1 C=1-
28	EPL	0005E	0041D	S27	W90	02 21.0	3		9	9	E	HOLL		S=2 C=
28	DSF	0944U	2222U	N16	W48	02 24.8		09	0	0	E	LEAR		S=3 C=
28	DSF	1521U	0808U	N22	W41	02 25.5		08	0	0	E	SVTO		S=2 C=
28	DSF	2052U	1739U	N40	E06	03 1.3		10	0	0	E	RAMY		S=2 C=

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.

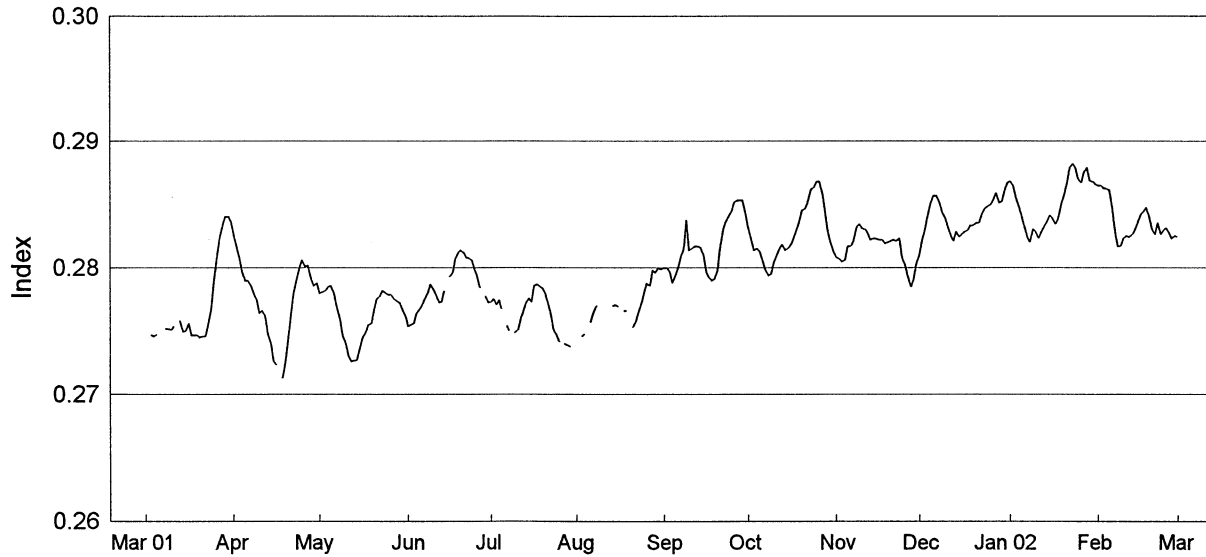
Observation Type: C= Cinematographic, E= Electronic, P= Photographic, V= Visual.

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

Mar 2001 - Feb 2002
Version 9.1



Day	Mar 01	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 02	Feb
1	0.2740	0.2826	0.2780	0.2754	0.2773	0.2738	0.2800	0.2831	0.2809	0.2821	0.2868	0.2865
2	---	0.2816	0.2781	0.2755	0.2775	---	0.2800	0.2822	0.2807	0.2828	0.2865	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	0.2863
4	0.2746	0.2797	0.2785	0.2764	0.2774	0.2748	0.2788	0.2815	0.2806	0.2850	0.2849	0.2863
5	0.2748	0.2790	0.2786	0.2767	0.2767	---	0.2794	0.2813	0.2817	0.2857	0.2841	0.2861
6	---	0.2790	0.2780	0.2770	---	0.2757	0.2800	0.2805	0.2817	0.2857	0.2833	0.2849
7	---	0.2786	0.2769	0.2775	0.2754	0.2764	0.2808	0.2798	0.2821	0.2851	0.2824	0.2828
8	0.2752	0.2780	0.2760	0.2780	0.2750	0.2770	0.2815	0.2794	0.2832	0.2844	0.2820	0.2817
9	0.2752	0.2774	0.2747	0.2787	---	---	0.2837	0.2795	0.2834	0.2839	0.2830	0.2817
10	0.2751	0.2764	0.2740	0.2783	0.2749	---	0.2814	0.2804	0.2831	0.2832	0.2828	0.2823
11	0.2754	0.2766	0.2731	0.2779	0.2751	---	0.2815	0.2810	0.2830	0.2825	0.2823	0.2825
12	---	0.2762	0.2726	0.2773	0.2759	---	0.2817	0.2815	0.2827	0.2821	0.2828	0.2824
13	0.2758	0.2748	0.2727	0.2773	0.2766	---	0.2817	0.2818	0.2822	0.2828	0.2832	0.2826
14	0.2750	0.2740	0.2727	0.2782	0.2772	0.2770	0.2816	0.2814	0.2823	0.2824	0.2836	0.2830
15	0.2750	0.2726	0.2737	---	0.2776	0.2771	0.2810	0.2815	0.2823	0.2826	0.2841	0.2835
16	0.2756	0.2723	0.2745	0.2793	0.2773	0.2769	0.2797	0.2818	0.2822	0.2828	0.2839	0.2842
17	0.2747	---	0.2749	0.2796	0.2786	---	0.2792	0.2823	0.2822	0.2829	0.2834	0.2844
18	0.2747	0.2713	0.2755	0.2807	0.2787	0.2766	0.2790	0.2830	0.2819	0.2833	0.2838	0.2847
19	0.2747	0.2724	0.2756	0.2812	0.2786	0.2766	0.2791	0.2836	0.2820	0.2833	0.2850	0.2840
20	0.2745	0.2741	0.2767	0.2814	0.2784	---	0.2798	0.2845	0.2821	0.2835	0.2856	0.2830
21	0.2746	0.2763	0.2775	0.2812	0.2780	0.2753	0.2816	0.2846	0.2822	0.2835	0.2867	0.2826
22	0.2746	0.2780	0.2777	0.2808	0.2771	0.2758	0.2830	0.2851	0.2821	0.2842	0.2879	0.2835
23	0.2755	0.2789	0.2782	0.2808	0.2763	0.2765	0.2836	0.2862	0.2823	0.2846	0.2882	0.2826
24	0.2768	0.2800	0.2781	0.2806	0.2751	0.2773	0.2841	0.2863	0.2808	0.2848	0.2879	0.2829
25	0.2789	0.2806	0.2779	0.2799	0.2747	0.2781	0.2844	0.2868	0.2802	0.2849	0.2870	0.2831
26	0.2808	0.2801	0.2779	0.2794	0.2741	0.2788	0.2851	0.2868	0.2793	0.2853	0.2867	0.2827
27	0.2823	0.2802	0.2776	0.2784	---	0.2786	0.2853	0.2859	0.2785	0.2859	0.2875	0.2823
28	0.2833	0.2791	0.2774	---	0.2740	0.2798	0.2853	0.2844	0.2791	0.2851	0.2879	0.2825
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	0.2769	0.2775	0.2763	0.2785	0.2764	0.2771	0.2817	0.2827	0.2816	0.2841	0.2851	0.2836

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