

APRIL 2004 NUMBER 716 - Part II



# Solar-Geophysical Data comprehensive reports

Data for October 2003 and Miscellaneous

Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

## NEW DATA:

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

### NGDC On-Line Addresses:

World-Wide Web <http://www.ngdc.noaa.gov>  
Gopher [gopher.ngdc.noaa.gov](http://gopher.ngdc.noaa.gov)  
Anonymous FTP: [ftp.ngdc.noaa.gov](http://ftp.ngdc.noaa.gov)

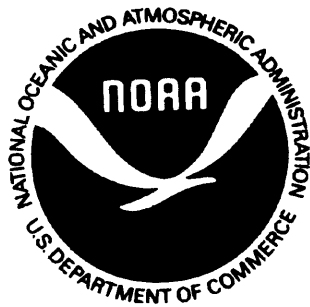
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NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,  
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL  
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BOULDER,  
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APRIL 2004 NUMBER 716 - Part II

# **Solar-Geophysical Data comprehensive reports**

Data for October 2003 and Late Data

International Standard Serial Number: 0038-0911

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

**NATIONAL GEOPHYSICAL DATA CENTER**

Christopher G. Fox, Acting Director

Boulder, Colorado

Subscription information is on the inside back cover.

# SOLAR-GEOPHYSICAL DATA

Number 716

(Issued in Two Parts)

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<b>ACE SOLAR WIND, INTERPLANETARY MAGNETIC FIELD AND PARTICLES</b>	
<b>-- MONTHLY PLOTS</b>	

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Oct 03

H $\alpha$  SOLAR FLARES

OCTOBER 2003

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	0416	0425	0436	N03	W56	10465	09	27.1	20	SF		3	E		20		F
0002	LEAR	01	0416	0424	0437	N06	W63	10464	09	26.6	21	SF		3	E		49		F
0003	LEAR	01	0440	0451	0509	N05	W57	10464	09	27.0	29	1F		3	E		174		EF
0004	KHAR	01	0857E		0907	S01	W57	10466	09	27.2	10D	SF		2	P	0901	60		
0005	KHAR	01	0907	0914	0927	S05	E71	10471	10	6.7	20	SF		2	P	0909	50		
0006	KHAR	01	0950		1001	N02	E63		10	6.1	11	SF		2	P	0955	30		
0007	HOLL	01	1749	1751	1756	N04	W63	10464	09	27.1	7	SF		3	E		19		F
0008	HOLL	01	1945	1945	1958	S16	E03	10470	10	2.0	13	SF		3	E		15		FS
0009	LEAR	02	0357	0357	0402	N08	W69	10464	09	27.1	5	SF		3	E		16		
0010	LEAR	02	0403	0405	0410	N09	W69	10464	09	27.1	7	SF		3	E		21		H
0011	LEAR	02	0426	0426	0431	N05	W72	10464	09	26.9	5	SF		3	E		51		FH
0012		02	06532	06544	0710	N04	W74	10464	09	26.8	17	1F					85		FH
	LEAR	02	0653	0654	0709	N04	W70	10464	09	27.1	16	SF		2	E		23		FH
	SVTO	02	0655	0658	0712	N05	W79	10464	09	26.5	17	1F		3	E		147		FH
0013	KHAR	02	0952E		1015	S04	E56	10471	10	6.6	23D	SN		2	P	0959	45		H
0014	KHAR	02	0952E		1003	N02	W80	10464	09	26.5	11D	SF		2	P	0959	25		DH
0015	KHAR	02	1058		1106	N01	W90	10464	09	25.8	8	SF		2	V				DH
0016	KANZ	02	1313	1400	1428	S04	E42	10471	10	5.7	75	SF		2	E				
		02	1509		1859														No Flare Patrol
		02	1945		2013														No Flare Patrol
		02	2040		2307														No Flare Patrol
		03	0121		0151														No Flare Patrol
		03	0244		0403														No Flare Patrol
0017	LEAR	03	0338	0338	0352	S06	E32	10471	10	5.5	14	SF		3	E		46		
		03	0407		0528														No Flare Patrol
		03	0543		0557														No Flare Patrol
		03	0635		0655														No Flare Patrol
0018	LEAR	03	0756	0759	0803	S10	E42	10471	10	6.5	7	SF		3	E		36		
0019	KHAR	03	0902		0910	S02	W80	10466	09	27.5	8	SF		2	P	0903	45		DH
		03	1323		1326														No Flare Patrol
		03	1426		1739														No Flare Patrol
		03	1746		1804														No Flare Patrol
		03	1906		2246														No Flare Patrol
		04	0136		0150														No Flare Patrol
		04	0240		0257														No Flare Patrol
		04	1042		1043														No Flare Patrol
		04	1121		1122														No Flare Patrol
		04	1124		1126														No Flare Patrol
		04	1344		1345														No Flare Patrol
0020	HOLL	04	1546	1548	1555	S10	E29	10471	10	6.8	9	SF		3	E		40		F
		04	1629		2117														No Flare Patrol
0021	LEAR	05	0034	0034	0039	S08	E20	10471	10	6.5	5	SF		3	E		18		F
0022	LEAR	05	0129	0130	0148	S07	E21	10471	10	6.6	19	SF		3	E		20		F



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Oct 03H $\alpha$  SOLAR FLARES

OCTOBER 2003

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)		
0031	HOLL	18	1633	1634	1639	N08	E74	10484	10	24.2	6	SF		3	E		12			
0032	HOLL	18	1651	1652	1701	N08	E72	10484	10	24.1	10	SF		3	E		48			
0033	HOLL	18	1740	1742	1744	N07	E72	10484	10	24.1	4	SF		3	E		21			F
0034	HOLL	18	1802	1802	1811	N05	E69	10484	10	23.9	9	SF		3	E		11			
0035	HOLL	18	1842	1843	1918	N07	E69	10484	10	23.9	36	SF		3	E		18			
0036	HOLL	18	1926	1930	1936	N03	E68	10484	10	23.9	10	SF		3	E		31			
0037	HOLL	18	2029	2034	2049	N07	E68	10484	10	23.9	20	SF		3	E		21			
0038	HOLL	18	2127	2128	2132	N03	E67	10484	10	23.9	5	SF		3	E		22			
0039		18	2216	2217	2225	N03	E66	10484	10	23.8	9	1F					86			F
	HOLL	18	2216	2217	2225	N03	E67	10484	10	23.9	9	1F		3	E		108			F
	LEAR	18	2217E	2217U	2225	N03	E66	10484	10	23.9	8D	SF		1	E		64			
0040	LEAR	19	0022	0022	0026	N03	E65	10484	10	23.9	4	SF		3	E		26			
0041	LEAR	19	0348	0349	0354	N03	E63	10484	10	23.9	6	SF		3	E		18			F
0042	LEAR	19	0611	0621	0707	N06	E62	10484	10	23.9	56	1F		3	E		102			F
0043	KANZ	19	0635E	0635E	0700	N07	E61	10484	10	23.8	25D	1F		2	E					
0044		19	08071	08091	0811	N06	E58	10484	10	23.7	4	SF					23			F
	KANZ	19	0807	0810	0810	N07	E57	10484	10	23.6	3	SF		2	E					
	LEAR	19	0808	0809	0812	N06	E60	10484	10	23.8	4	SF		3	E		23			F
		19	1130		1133	No Flare Patrol														
0045	KANZ	19	1332	1334D	1334D	N03	E55	10484	10	23.7	2D	SF		2	E					
0046	HOLL	19	1417	1417	1424	N05	E56	10484	10	23.8	7	SF		3	E		14			
0047	HOLL	19	1632	1652	1748	N08	E58	10484	10	24.0	76	1N		3	E		212			FU
0048	HOLL	19	1857	1857	1900	N03	E55	10484	10	23.9	3	SF		3	E		13			
0049	HOLL	19	1924	1927	1931	N05	E54	10484	10	23.8	7	SF		3	E		68			F
0050	HOLL	19	2021	2021	2026	N07	E53	10484	10	23.8	5	SF		3	E		31			F
0051	HOLL	19	2102	2103	2111	N08	E55	10484	10	24.0	9	SF		3	E		15			
0052	HOLL	19	2247	2248	2326	N06	E51	10484	10	23.8	39	SF		3	E		38			F
0053	LEAR	19	2346E	2424	2434	N03	E52	10484	10	23.9	48D	SF		3	E		42			F
0054	LEAR	20	0057	0107	0144	N03	E51	10484	10	23.8	47	SF		3	E		63			F
		20	0516		0710	No Flare Patrol														
0055	LEAR	20	0711E	0723	0851	N03	E48	10484	10	23.9	100D	1N		3	E		144			EF
		20	0950		1029	No Flare Patrol														
		20	1034		1045	No Flare Patrol														
		20	1131		1312	No Flare Patrol														
0056	HOLL	20	1448	1449	1455	N07	E43	10484	10	23.8	7	SF		3	E		51			FH
0057	HOLL	20	1553	1555	1620	N03	E45	10484	10	24.0	27	SF		3	E		57			F
0058	HOLL	20	1649	1703	1727	N05	E40	10484	10	23.7	38	SF		3	E		31			F
0059	HOLL	20	1822	1824	1829	N07	E41	10484	10	23.8	7	SF		3	E		70			



H $\alpha$  SOLAR FLARES

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Oct 03

OCTOBER 2003

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0060	HOLL	20	1958	1959	2022	N02	E41	10484	10	23.9	24	SF	3	E		42		FH
0061	HOLL	20	2030	2046	2053	N07	E41	10484	10	23.9	23	SF	3	E		17		
0062	HOLL	20	2200	2200	2212	N03	E42	10484	10	24.0	12	SF	3	E		32		F
0063	LEAR	21	0252	0252	0304	N05	E35	10484	10	23.7	12	SF	3	E		25		F
0064	LEAR	21	0334	0343	0411	N06	E37	10484	10	23.9	37	SF	3	E		30		F
0065	LEAR	21	0453	0459	0503	N06	E35	10484	10	23.8	10	SF	3	E		21		F
0066	LEAR	21	0631	0631	0643	N03	E35	10484	10	23.9	12	SF	3	E		31		F
0067	LEAR	21	0824	0825	0841	N03	E34	10484	10	23.9	17	SF	3	E		62		F
			21 0950		1156	No Flare Patrol												
			21 1159		1200	No Flare Patrol												
0068	KANZ	21	1206	1222	1237	N05	E30	10484	10	23.7	31	SF	2	E				
			21 1226		1229	No Flare Patrol												
			21 1231		1234	No Flare Patrol												
			21 1239		1240	No Flare Patrol												
0069	KANZ	21	1242	1246	1252D	S10	E20	10483	10	23.0	10D	SF	2	E				
			21 1249		1330	No Flare Patrol												
0070	HOLL	21	1511	1512	1525	N02	E31	10484	10	23.9	14	SF	3	E		15		FU
0071	HOLL	21	1759	1800	1804	N07	E28	10484	10	23.8	5	SF	3	E		11		FH
0072	HOLL	21	2023	2024	2029	S09	E16	10483	10	23.0	6	SF	3	E		12		F
0073	HOLL	21	2031	2037	2045	N07	E27	10484	10	23.9	14	SF	3	E		12		FH
0074	LEAR	22	0133	0133	0135	N06	E24	10484	10	23.9	2	SF	3	E		15		
0075	LEAR	22	0158	0201	0212	N04	E26	10484	10	24.0	14	SF	3	E		59		FH
0076	LEAR	22	0213	0221	0231	N05	E26	10484	10	24.0	18	SF	3	E		25		FH
0077	LEAR	22	0236	0238	0243	N04	E28	10484	10	24.2	7	SF	3	E		14		FH
0078	LEAR	22	0333	0333	0338	N07	E25	10484	10	24.0	5	SF	3	E		23		F
0079	LEAR	22	0414	0422	0437	N04	E24	10484	10	24.0	23	SF	3	E		74		FH
0080	LEAR	22	0439	0526	0859	N05	E20	10484	10	23.7	260	SF	3	E		46		FTZ
			22 0951		1013	No Flare Patrol												
			22 1040		1052	No Flare Patrol												
			22 1057		1332	No Flare Patrol												
0081	HOLL	22	1424	1427	1439	N03	E18	10484	10	23.9	15	SF	3	E		13		F
0082	HOLL	22	1507	1511	1518	N05	E22	10484	10	24.3	11	SN	3	E		50		
0083	HOLL	22	1559	1601	1610	N03	E17	10484	10	23.9	11	SN	3	E		96		
0084	HOLL	22	1701	1703	1716	N03	E16	10484	10	23.9	15	SF	3	E		28		
0085	HOLL	22	1821	1822	1829	N07	E16	10484	10	24.0	8	SF	3	E		32		
0086	HOLL	22	2013	2013	2017	N03	E14	10484	10	23.9	4	SF	3	E		17		
0087	HOLL	22	2020	2028	2043	S18	E78	10486	10	28.8	23	SF	3	E		81		FY

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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)			
0088	HOLL	22	2037	2038	2044	N03 E14		10484	10	23.9	7	SF	3	E		11				
0089	HOLL	22	2244	2245	2247	N03 E13		10484	10	23.9	3	SF	3	E		14				
0090	LEAR	22	2358		2402	N03 E12		10484	10	23.9	4	SF	3	E		13			FZ	
0091	LEAR	23	0116	0117	0132	N03 E11		10484	10	23.9	16	SF	3	E		45			FZ	
0092	LEAR	23	0236	0240	0250	N03 E15		10484	10	24.2	14	SN	3	E		91			FZ	
0093	LEAR	23	0630	0630	0633	N03 E14		10484	10	24.3	3	SF	3	E		16			FH	
0094	LEAR	23	0705	0707	0718	N04 E13		10484	10	24.3	13	1N	3	E		115			EF	
0095	LEAR	23	0824	0846	0921	S21 E88		10486	10	30.1	57	1B	3	E		190			E	
		23	0951		1252	No Flare Patrol														
		23	1300		1323	No Flare Patrol														
		23	1411		1413	No Flare Patrol														
0096	HOLL	23	1422	1423	1437	N05 E00		10484	10	23.6	15	SF	3	E		12				
0097	HOLL	23	1813	1813	1821	N01 E05		10484	10	24.1	8	SF	3	E		12				
0098	HOLL	23	1955	1957	2028	S17 E84		10486	10	30.2	33	1N	3	E		119			F	
0099	LEAR	23	2307	2307	2314	N08 E00		10484	10	24.0	7	SF	3	E		36			F	
0100	LEAR	24	0154	0159	0215	N01 E00		10484	10	24.1	21	SF	3	E		25			F	
0101	LEAR	24	0222	0247	0328	S19 E72		10486	10	29.6	66	1N	3	E		107			EF	
0102	LEAR	24	0508	0510	0519	S24 E74		10486	10	29.9	11	1F	3	E		161				
0103	LEAR	24	0556	0557	0558	N04 E00		10484	10	24.2	2	SF	3	E		18				
0104	LEAR	24	0621	0621	0629	S15 E66		10486	10	29.3	8	SF	3	E		30			F	
0105	LEAR	24	0635	0638	0642	S15 E66		10486	10	29.3	7	SF	3	E		11				
0106	LEAR	24	0747	0747	0804	N01 W08		10484	10	23.7	17	SF	3	E		16			F	
0107	LEAR	24	0826	0829	0836	N04 W02		10484	10	24.2	10	SF	3	E		55				
0108	LEAR	24	0839	0840	0843	N03 W07		10484	10	23.8	4	SF	3	E		29			F	
		24	0951		1333	No Flare Patrol														
0109	HOLL	24	1536	1539	1727	S17 E55		10486	10	28.8	111	SF	3	E		19			F	
0110	HOLL	24	1731	1752	1759	S16 E53		10486	10	28.7	28	SF	3	E		14			F	
0111	HOLL	24	1759	1810	1818	S16 E54		10486	10	28.8	19	SF	3	E		13				
0112	HOLL	24	2024	2024	2031	N04 W08		10484	10	24.2	7	SF	3	E		30			FH	
0113	HOLL	24	2138	2139	2148	N05 W09		10484	10	24.2	10	1N	3	E		119			FH	
0114	LEAR	25	0155	0157	0159	N04 W11		10484	10	24.2	4	SF	3	E		18			FZ	
0115	LEAR	25	0259	0300	0307	N03 W17		10484	10	23.8	8	SF	3	E		29			FZ	
0116	LEAR	25	0332	0352	0415	N05 W13		10484	10	24.2	43	1F	3	E		68			FH	
0117	LEAR	25	0552	0601	0622	N00 W15		10484	10	24.1	30	SF	3	E		62			F	
0118		25	0415	0550	0638	S13 E46		10486	10	28.6	143	1N				241			EF	
	LEAR	25	0415	0550	0709	S15 E43		10486	10	28.4	174	2N	3	E		442			FE	
	SVTO	25	0559E	0559U	0606	S11 E48		10486	10	28.9	7D	SF	3	E		40			F	

H $\alpha$  SOLAR FLARES

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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)	
0119	SVTO	25	0607	0616	0623	S10	E48	10486	10	28.9	16	SF		3	E		16		
0120	KANZ	25	0637E	0637E	0705	S13	E42	10489	10	28.4	28D	1F		2	E				
0121		25	0711	0714	0718	S18	E46	10486	10	28.8	7	SF					18		F
	LEAR	25	0711	0714	0719	S18	E49	10486	10	29.0	8	SF		3	E		18		F
	KANZ	25	0715E	0715E	0718	S17	E44	10486	10	28.6	3D	SF		2	E				
0122	KANZ	25	0921	0922	0925	N04	W15	10484	10	24.3	4	SF		2	E				
0123	KANZ	25	0946	0947	0951	S17	E55	10486	10	29.6	5	SF		2	E				
0124	KANZ	25	1002	1006	1010	N04	W15	10484	10	24.3	8	SF		2	E				
0125	KANZ	25	1005	1010	1018	S09	E46	10489	10	28.9	13	SF		2	E				
0126	KANZ	25	1031	1034	1038	S11	W26		10	23.5	7	SF		2	E				
0127		25	1028	1033	1111	N02	W20	10484	10	23.9	43	1F					19		F
	KANZ	25	1028	1033	1111	N01	W20	10484	10	23.9	43	1F		2	E				
	SVTO	25	1039E	1040U	1044D	N03	W20	10484	10	23.9	5D	SF		2	E		19		F
0128	KANZ	25	1216	1217	1223	S08	E44	10489	10	28.8	7	SF		2	E				
0129	KANZ	25	1254	1258	1331	S12	W27		10	23.5	37	SF		2	E				
0130	HOLL	25	1834	1840	1851	S11	E37	10486	10	28.5	17	SF		3	E		14		
			1926		1932	No Flare Patrol													
			2002		2009	No Flare Patrol													
			2022		2400	No Flare Patrol													
			0000		0059	No Flare Patrol													
0131	LEAR	26	0144E	0144U	0150	S17	E49	10486	10	29.8	6D	SF		2	E		47		
			0230		0236	No Flare Patrol													
			0302		0322	No Flare Patrol													
			0343		0525	No Flare Patrol													
			0551		0627	No Flare Patrol													
0132	LEAR	26	0600E	0627	0850	S17	E38	10486	10	29.1	170D	3N		2	E		661		FU
			0631		0637	No Flare Patrol													
0133	KANZ	26	0646E	0646E	0917	S14	E41	10486	10	29.4	151D	3B		2	E				
0134	KANZ	26	1042	1045	1050	S17	E45	10486	10	29.9	8	SF		2	E				
0135	KANZ	26	1211	1223	1237	N04	W31	10484	10	24.2	26	SF		2	E				
0136	KANZ	26	1241	1247	1308	S13	E37	10490	10	29.3	27	SN		2	E				
0137		26	1336*	1424	1440	N04	W34	10484	10	24.0	64	1F					97		F
	KANZ	26	1336	1424	1446D	N04	W32	10484	10	24.2	70D	1N		2	E				
	SVTO	26	1422E	1422U	1437	N03	W36	10484	10	23.9	15D	1F		3	E		113		F
	HOLL	26	1423	1424	1443	N05	W33	10484	10	24.1	20	SF		3	E		81		F
0138	HOLL	26	1618	1619	1628	S18	E29	10486	10	28.9	10	SF		3	E		21		F
0139	HOLL	26	1721	1733	2016	N02	W38	10484	10	23.9	175	1N		3	E		162		F
0140	HOLL	26	1725	1726	1732	S09	W44	10483	10	23.4	7	SF		3	E		12		
0141	HOLL	26	2126	2139	2226	N01	W38	10484	10	24.0	60	2N		3	E		333		F
0142	LEAR	27	0135	0137	0144	S21	E30	10486	10	29.4	9	SF		3	E		24		F
0143	LEAR	27	0207	0207	0212	N08	E22	10488	10	28.7	5	SF		3	E		13		

H $\alpha$  SOLAR FLARES

OCTOBER 2003

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)		
0144	LEAR	27	0240	0240	0248	N07	E21	10488	10	28.7	8	SF		3	E		15		F	
0145	LEAR	27	0248	0249	0252	N07	E21	10488	10	28.7	4	SF		3	E		13		F	
0146	LEAR	27	0339	0349	0357	N01	W43	10484	10	23.9	18	SF		2	E		38		F	
0147	LEAR	27	0358	0400	0407	N00	W43	10484	10	23.9	9	SF		2	E		17		F	
0148	LEAR	27	0409	0413	0416	N00	W44	10484	10	23.9	7	SF		2	E		24		F	
0149	LEAR	27	0428	0434	0438	N01	W43	10484	10	24.0	10	SF		3	E		17		F	
0150	LEAR	27	0614	0616	0629	S20	E29	10486	10	29.5	15	SF		3	E		55		F	
0151	LEAR	27	0746	0826	0932	N00	W45	10484	10	24.0	106	2F		3	E		322		F	
0152		27	0834E	0838	1018D	S00	W48	10484	10	23.8	104D	2F					334		F	
	SVTO	27	0834E	0838	0932D	S01	W51	10484	10	23.5	58D	2F		2	E		334		F	
	KANZ	27	0841E	0841E	1018D	S00	W45	10484	10	24.0	97D	2F		2	E					
0153		27	08452	08452	0903	N08	E16	10488	10	28.6	18	SF					10		F	
	KANZ	27	0845	0845	0916	N08	E16	10488	10	28.6	31	SF		2	E					
	SVTO	27	0847	0847	0850	N08	E17	10488	10	28.6	3	SF		3	E		10		F	
0154		27	0923	09235	0946	S15	E26	10486	10	29.3	23	SF					72		F	
	LEAR	27	0923	0923	0944	S16	E26	10486	10	29.4	21	SF		3	E		72		F	
	KANZ	27	0923	0928	0948	S14	E26	10486	10	29.3	25	SF		2	E					
0155	SVTO	27	1029	1029	1035	N08	E15	10488	10	28.6	6	SF		3	E		24			
		27	1234		1258	No Flare Patrol														
0156	SVTO	27	1251E	1251U	1304	S17	E25	10486	10	29.4	13D	SF		2	E		66			
0157	SVTO	27	1253E	1258U	1310	N07	W46	10484	10	24.1	17D	SF		2	E		44			
		27	1319		1335	No Flare Patrol														
0158		27	14062	1414	1447D	N08	E12	10488	10	28.5	41D	SF					85		F	
	KANZ	27	1406	1414	1445D	N08	E13	10488	10	28.6	39D	SF		2	E					
	HOLL	27	1408	1412U	1447D	N09	E11	10488	10	28.4	39D	SF		3	E		85		F	
0159	HOLL	27	1451E	1457U	1528D	N09	E12	10488	10	28.5	37D	SF		3	E		46		F	
0160	HOLL	27	1611	1621	1636	N10	E13	10488	10	28.6	25	SF		3	E		63			
0161	HOLL	27	1702	1704	1710	N07	E12	10488	10	28.6	8	SF		3	E		14		FH	
0162	HOLL	27	1836	1838	1859	N04	W56	10484	10	23.6	23	SF		3	E		47		F	
0163	HOLL	27	1842	1846	1854	S17	E11	10486	10	28.6	12	SF		3	E		21		F	
0164	HOLL	27	1949	1957	2029	N07	W50	10484	10	24.1	40	1N		3	E		270		F	
0165	HOLL	27	1952	1957	2005	N09	E13	10488	10	28.8	13	SF		3	E		33		F	
0166	HOLL	27	2120	2120	2122	N08	E09	10488	10	28.6	2	SF		3	E		42			
0167	HOLL	27	2149	2151	2237	N08	E09	10488	10	28.6	48	SN		3	E		87		FU	
0168	HOLL	27	2239	2240	2245	N09	E11	10488	10	28.8	6	SF		3	E		34			
0169	LEAR	27	2314	2314	2322	N10	E10	10488	10	28.7	8	SF		3	E		30		F	
0170	LEAR	27	2348	2348	2353	S17	E17	10486	10	29.3	5	SF		3	E		45		F	
0171	LEAR	27	2359	2405	2411	S19	E16	10486	10	29.2	12	SF		3	E		30		F	
0172	LEAR	27	2359	2401	2410	N08	E08	10488	10	28.6	11	SF		3	E		12		FU	





H $\alpha$  SOLAR FLARES

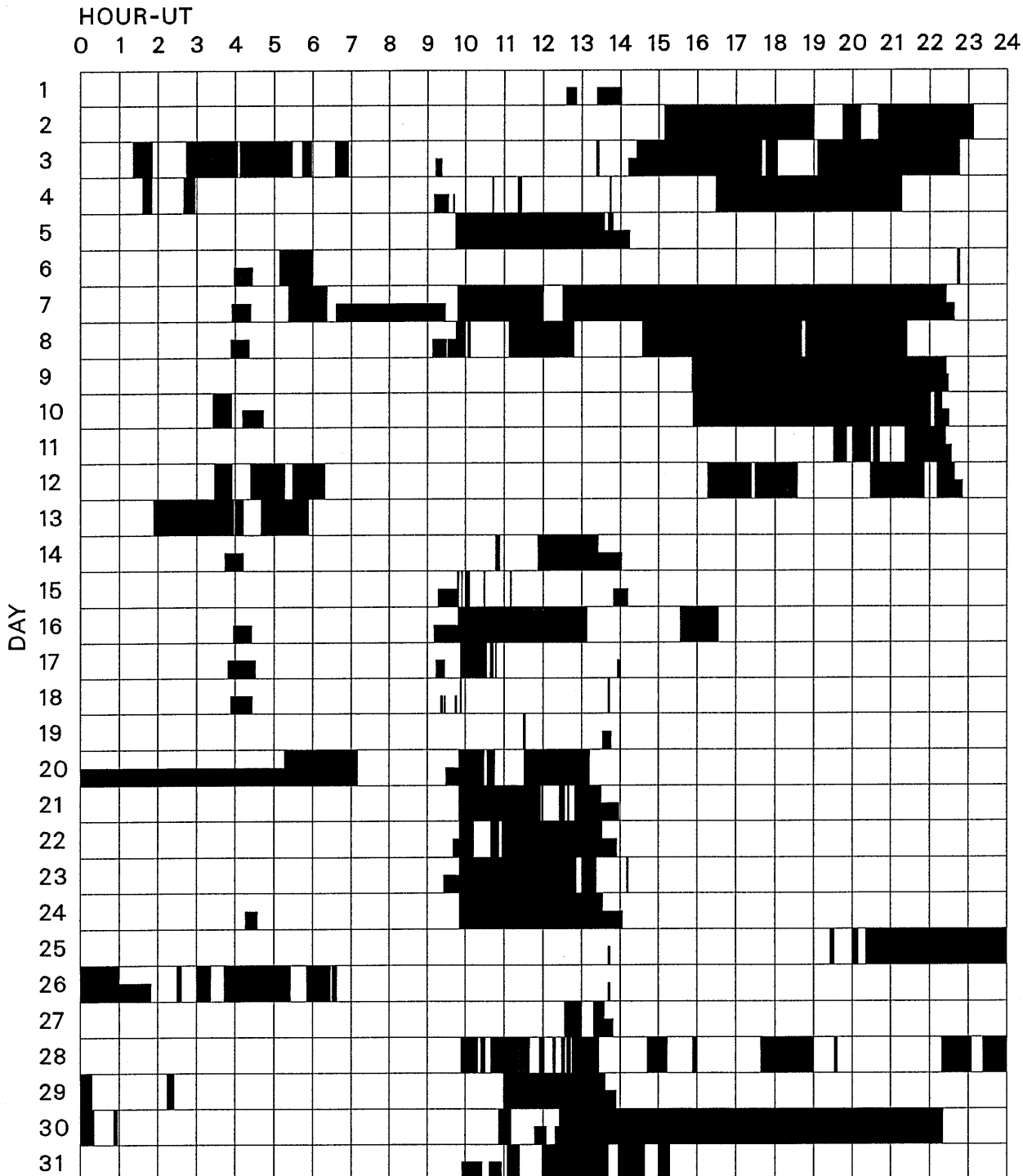
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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			30 0052		0057			No Flare Patrol										
0226	LEAR	30	0153	0159	0254	N08	W22	10488	10	28.4	61	1F	3	E		145		F
0227	LEAR	30	0215	0216	0221	S20	W20	10486	10	28.6	6	SF	3	E		25		F
0228		30	08206	08391	0850	S21	W53	10492	10	26.3	30	1F				102		F
	LEAR	30	0820	0839	0849	S21	W53	10492	10	26.3	29	1F	3	E		101		
	SVTO	30	0826	0839	0850	S21	W55	10492	10	26.1	24	1F	3	E		103		F
	KANZ	30	0826	0840	0851	S22	W52	10492	10	26.3	25	1F	2	E				
			30 1052		1111			No Flare Patrol										
0229	KHAR	30	1210U		1225	N03	W90	10484	10	23.8	15U	1N	2	V				H
			30 1226		2221			No Flare Patrol										
0230	LEAR	31	0148	0149	0156	N13	E06	10487	10	31.5	8	SF	3	E		19		F
0231	LEAR	31	0152	0153	0159	N08	W25	10488	10	29.2	7	SF	3	E		39		
0232	LEAR	31	0240	0242	0248	N08	W33	10488	10	28.6	8	SF	3	E		27		
0233	LEAR	31	0354	0356	0401	N08	W26	10488	10	29.2	7	SF	3	E		17		F
0234		31	0603	0615	0645	N09	W29	10488	10	29.1	42	SF				72		F
	LEAR	31	0603	0615	0701	N08	W28	10488	10	29.1	58	SF	3	E		66		F
	SVTO	31	0611E	0612U	0629	N10	W30	10488	10	29.0	18D	SF	3	E		79		F
0235	SVTO	31	0908	0909	0913	N08	W30	10488	10	29.1	5	SF	3	E		30		
0236	KHAR	31	0917		0935	N03	W38	10488	10	28.5	18	SF	2	P	0920	40		O
0237	KHAR	31	0938	0939	0952	N06	W30	10493	10	29.1	14	SF	2	P	0940	65		H
0238	KHAR	31	1040		1052	N06	W30	10493	10	29.2	12	SF	2	V				O
0239	KHAR	31	1057		1102	N04	W43	10488	10	28.2	5	SF	2	V				D
			31 1105		1124			No Flare Patrol										
			31 1159		1342			No Flare Patrol										
			31 1357		1439			No Flare Patrol										
			31 1500		1518			No Flare Patrol										
0240	HOLL	31	1611	1612	1618	N12	W40	10488	10	28.7	7	SF	3	E		20		F
0241	HOLL	31	1647	1649	1724	S19	W44	10486	10	28.3	37	SF	3	E		37		FH
0242	HOLL	31	1736	1737	1746	S20	W28	10486	10	29.6	10	SF	3	E		25		F
0243	HOLL	31	1927	1927	1933	S16	W27	10486	10	29.8	6	SF	3	E		28		F
0244	HOLL	31	2035	2042	2047	N08	W44	10488	10	28.5	12	SF	3	E		16		F
0245	HOLL	31	2050	2110	2144	N08	W44	10488	10	28.6	54	SF	3	E		22		

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

OCTOBER 2003



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

Holloman  
Kankelhoehe

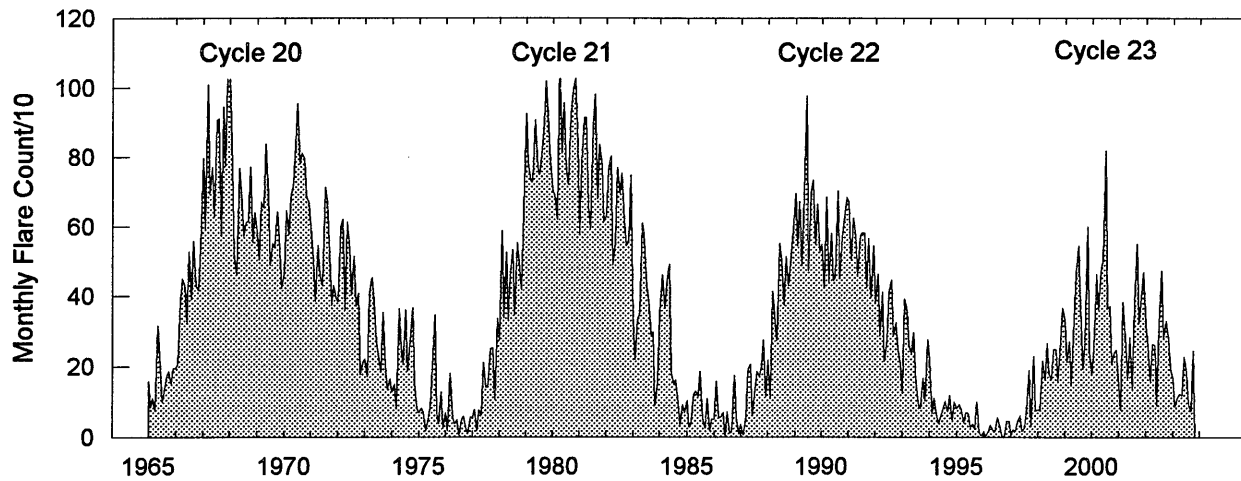
Learmonth  
Kharkov

San Vito



# Monthly Counts of Grouped Solar Flares

## Jan 1965 - Oct 2003



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14	6	639
1996	14	3	15	34	21	16	54	31	3	0	44	45	280
1997	8	22	18	43	59	18	26	75	188	31	228	74	790
1998	78	76	216	161	264	177	164	248	249	155	268	367	2423
1999	330	212	271	145	330	466	544	368	192	264	598	243	3963
2000	175	248	462	362	473	505	818	364	372	208	241	246	4474
2001	147	77	383	284	164	282	137	376	549	325	405	468	3597
2002	318	261	155	263	259	91	318	474	280	329	279	196	3223
2003	164	87	112	122	117	226	181	94	73	245			1421

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

S O L A R R A D I O E M I S S I O N  
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OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		Int	Remarks
							Peak	Mean		
01	127	TORN	43 NS	0748.0		312.0		4.0		V=1
	204	IZMI	43 NS	0939.0		51.0D		15.0		
	2840	PEKG	1 S	0420.0	0423.3	10.0	11.3			
	2800	HIRA	1 S	0422.0	0422.0	2.0	10.0			0
	500	HIRA	8 S	0431.0	0431.0	2.0	10.0			0
	2840	PEKG	45 C	0444.0	0448.2	11.0	12.1			
	2800	HIRA	1 S	0447.0	0449.0	3.0	10.0			0
	204	IZMI	7 C	0743.2	0743.2	0.1	16.0			
	245	SGMR	8 S	1119.0	1119.0	1.0	54.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1119.1	1119.8	1.3	117.0			
	2800	PENT	29 PBI	1738.0	1748.0	85.0	180.0			
	410	PALE	8 S	1748.0	1748.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1748.0	1748.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1749.0	1749.0	1.0	140.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1749.0	1749.0	U	56.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1749.0	1749.0	U	89.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1827.0	1827.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2025.0	2025.0	U	98.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2036.0	2036.0	U	120.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2042.0	2042.0	1.0	150.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2105.0	2105.0	U	87.0			QL=4 ST=2 TYP=3	
02	127	TORN	43 NS	0810.0		410.0		5.0		V=1
	2840	PEKG	45 C	0353.5	0357.5	17.0	16.9			
	2804	VORO	46 C	0356.5	0357.8	6.1	14.2			
	2800	HIRA	1 S	0357.0	0358.0	6.0	15.0			0
	500	HIRA	7 C	0357.0	0358.0	5.0	15.0			WR
	2840	PEKG	45 C	0421.0	0425.8	10.0	9.2			
	2804	VORO	46 C	0424.2	0426.8	3.4	12.8			
	2840	PEKG	3 S	0649.0	0652.9	16.0	60.2			
	2800	HIRA	3 S	0651.0	0653.0	7.0	50.0			0
	3000	IZMI	22 GRF	0651.4	0652.9	4.5	51.0	16.5		
	500	HIRA	7 C	0652.0	0655.0	5.0	45.0			WR
	2695	LEAR	8 S	0652.0	0652.0	1.0	38.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0652.0	0653.0	2.0	96.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0652.0	0653.0	2.0	220.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0652.0	0653.0	3.0	210.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0652.0	0653.0	1.0	34.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0652.0	0652.0	2.0	49.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0652.0	0653.0	3.0	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0652.0	0653.0	3.0	320.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0652.0	0653.0	3.0	190.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0653.0	0653.0	U	85.0			QL=4 ST=2 TYP=3
1415	LEAR	8 S	0653.0	0653.0	U	35.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	0653.0	0653.0	U	60.0			QL=4 ST=2 TYP=3	
204	IZMI	42 SER	0728.6	0729.2	0.8	24.0				
204	IZMI	7 C	0806.4	0806.5	0.2	15.0				
245	SVTO	8 S	0820.0	0820.0	U	100.0			QL=4 ST=2 TYP=3	
204	IZMI	42 SER	0820.1	0820.8	0.8	73.0				
2800	PENT	21 GRF	1520.0		249.0					
03	127	TORN	43 NS	0750.0		300.0		9.0		V=1
	500	HIRA	8 S	0226.0	0226.0	1.0	40.0			
	2840	PEKG	3 S	0747.0	0756.5	27.0	67.2			
	3000	IZMI	22 GRF	0755.9	0756.5	1.3	56.0	21.6		
	2695	LEAR	8 S	0756.0	0756.0	U	46.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0756.0	0756.0	U	39.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0756.0	0756.0	U	23.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0756.0	0756.0	U	58.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0756.0	0756.0	U	61.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0756.0	0756.0	U	40.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0909.0	0910.0	1.0	51.0			QL=4 ST=2 TYP=3
245	PALE	8 S	1833.0	1833.0	U	59.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2125.0	2125.0	U	160.0			QL=4 ST=2 TYP=3	
04	204	IZMI	43 NS	0600.0		360.0D		15.0		
	127	TORN	44 NS	0620.0E		520.0D		14.0		V=2
	245	LEAR	8 S	0054.0	0054.0	U	59.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0456.0	0458.5	4.0	9.6			

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OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean (W/m 2 Hz)		
04	204	IZMI	45 C	0948.2	0948.3	0.2	119.0			
	204	IZMI	42 SER	0949.1	0949.9	2.1	97.0			
	204	IZMI	42 SER	1014.5	1015.2	1.7	38.0			
	204	IZMI	41 F	1039.0	1039.1	0.2	22.0			
	245	SGMR	4 S/F	1310.0	1315.0	5.0	42.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1310.0	1312.0	5.0	64.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1312.0	1312.0	3.0	39.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1312.0	1312.0	U	69.0			QL=4 ST=2 TYP=3
	127	TORN	47 GB	1320.9	1321.2	1.6	1400.0	440.0		
	2800	PENT	29 PBI	1535.0	1546.0	57.0U	210.0			
	8800	SGMR	8 S	1545.0	1546.0	2.0	80.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1545.6	1546.6	3.2	65.0	32.0		
	2695	SGMR	8 S	1546.0	1546.0	1.0	22.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1546.0	1546.0	1.0	37.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1546.0	1546.0	U	40.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1546.0	1546.0	1.0	23.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1546.0	1546.0	2.0	45.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1546.0	1546.0	2.0	64.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1546.0	1546.0	2.0	51.0			QL=4 ST=2 TYP=3
	2800	PENT	41 F	1745.0	1909.0	107.0U	70.0			
245	PALE	8 S	1928.0	1928.0	2.0	96.0			QL=4 ST=2 TYP=3	
245	PALE	48 C	1938.0	1940.0	3.0	170.0			QL=4 ST=2 TYP=8	
05	127	TORN	44 NS	0620.0E		520.0D		11.0		V=1
	500	HIRA	42 SER	0110.0	0110.0	9.0	25.0			0
	245	LEAR	8 S	0110.0	0110.0	U	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0110.0	0110.0	U	42.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0534.0	0534.0	U	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0534.0	0534.0	U	61.0			QL=4 ST=3 TYP=3
	500	HIRA	8 S	0535.0	0535.0	1.0	10.0			0
	2840	PEKG	3 S	0914.0	0918.7	15.0	25.3			
	204	IZMI	42 SER	0934.9	0935.2	1.0	87.0			
	204	IZMI	42 SER	1140.4	1144.5	5.3	122.0			
	410	SGMR	8 S	1142.0	1142.0	2.0	78.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1142.0	1144.0	2.0	68.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1142.0	1142.0	2.0	73.0			QL=4 ST=2 TYP=3
	33	UPIC	48 C	1142.0	1144.7	4.5				
	245	SGMR	8 S	1143.0	1144.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1144.0	1144.0	U	55.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1153.5	1155.0	4.5				
	33	UPIC	46 C	1200.0	1202.5	4.5				
	2695	SGMR	8 S	1322.0	1322.0	1.0	41.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1322.0	1322.0	1.0	52.0			QL=4 ST=2 TYP=3
4995	SVTO	8 S	1322.0	1322.0	1.0	42.0			QL=4 ST=2 TYP=3	
9500	CUBA	1 S	1322.5	1322.8	1.4	12.0	6.0			
1415	SGMR	8 S	1323.0	1323.0	U	21.0			QL=4 ST=2 TYP=3	
4995	SGMR	8 S	1323.0	1324.0	1.0	120.0			QL=4 ST=2 TYP=3	
06	127	TORN	43 NS	0740.0		280.0		7.0		V=1
	500	HIRA	7 C	0100.0	0103.0	7.0	35.0			0
	245	LEAR	8 S	0100.0	0100.0	U	80.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0100.0	0100.0	U	44.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0100.0	0100.0	U	88.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0100.0	0100.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0102.0	0103.0	1.0	150.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0102.0	0102.0	1.0	45.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0658.9	0659.5	1.0	10.0			
	204	IZMI	42 SER	0733.6	0733.8	0.9	27.0			
	2840	PEKG	1 S	0918.0	0921.0	9.0	6.8			
	204	IZMI	42 SER	0919.6	0919.8	0.8	25.0			
	500	HIRA	6 S	2235.0	2235.0	1.0	15.0			0
	07	127	TORN	43 NS	0810.0		310.0		3.0	
2840		PEKG	1 S	0215.0	0216.2	3.0	6.2			
2804		VORO	40 F	0215.2	0215.8	1.2	21.4			
500		HIRA	8 S	0352.0	0353.0	1.0	40.0			0
245		SGMR	8 S	1334.0	1334.0	U	110.0			QL=4 ST=2 TYP=3
410		SGMR	8 S	1334.0	1334.0	U	45.0			QL=4 ST=2 TYP=3
245		SVTO	8 S	1334.0	1334.0	U	95.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N  
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OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
07	L	410 SVTO	8 S	1334.0	1334.0	U	47.0			QL=4 ST=2 TYP=3
		2800 PENT	29 PBI	1731.0	1741.0	51.0	210.0			
		2800 PENT	1 S	2342.0	2352.0	20.0	200.0			
		2804 VORO	21 GRF	2345.0	2350.6	45.0	6.1			
		2800 HIRA	1 S	2351.0	2353.0	5.0	20.0			0
		2840 PEKG	1 S	2351.0	2352.8	10.0	28.3			
		2804 VORO	1 S	2351.2	2352.7	2.8	18.9			
08		127 TORN	43 NS	0740.0		352.0		4.0		V=0
09		127 TORN	43 NS	0810.0		340.0		10.0		V=0
		204 IZMI	42 SER	0609.4	0610.9	3.7	7.0			
		2800 PENT	21 GRF	2144.0	2149.0	48.0U	60.0			
		2800 PENT	29 PBI	2320.0	2339.0	36.0	120.0			
		2840 PEKG	5 S	2337.0	2339.3	8.0	10.0			0
		2800 HIRA	1 S	2338.0	2340.0	5.0	10.0			
10		127 TORN	43 NS	0810.0		490.0		9.0		V=1
		245 PALE	8 S	1907.0	1907.0	U	68.0			QL=4 ST=2 TYP=3
		2800 PENT	21 GRF	2114.0	2126.0	78.0U	40.0			
11		127 TORN	43 NS	0740.0		240.0		7.0		V=0,DISTURBED
12		127 TORN	43 NS	0840.0		280.0		8.0		V=0
		500 HIRA	8 S	0034.0	0034.0	1.0	10.0			0
13		127 TORN	43 NS	0740.0		260.0		7.0		V=1
14		127 TORN	43 NS	0810.0		310.0		8.0		V=0
15		127 TORN	43 NS	0740.0		410.0		8.0		V=0
16		127 TORN	43 NS	0810.0		260.0		13.0		V=0
17		204 IZMI	41 F	0643.1	0643.2	0.1	29.0			
18	L	127 TORN	44 NS	0620.0E		340.0D		130.0		V=2
		204 IZMI	43 NS	0725.0		275.0D		60.0		
		245 SGMR	43 NS	1251.0	1509.0	507.0	560.0			QL=4 ST=2 TYP=1
		245 SGMR	43 NS	1251.0	1251.0	669.0	53.0			QL=4 ST=1 TYP=1
		245 SGMR	43 NS	1251.0	1338.0	669.0	56.0			QL=4 ST=1 TYP=1
		245 SGMR	43 NS	1251.0	1358.0	669.0	88.0			QL=4 ST=1 TYP=1
		245 PALE	43 NS	1649.0	1945.0	345.0	270.0			QL=4 ST=2 TYP=1
		245 PALE	43 NS	1649.0	1649.0	431.0	65.0			QL=4 ST=1 TYP=1
		245 PALE	43 NS	1649.0	1711.0	431.0	71.0			QL=4 ST=1 TYP=1
		245 PALE	43 NS	1649.0	1718.0	431.0	78.0			QL=4 ST=1 TYP=1
		245 PALE	43 NS	1649.0	1735.0	431.0	99.0			QL=4 ST=1 TYP=1
		245 LEAR	43 NS	2209.0	0621.0	699.0	230.0			QL=4 ST=2 TYP=1
		500 HIRA	8 S	0620.0	0621.0	1.0	15.0			0
		245 SVTO	8 S	0851.0	0852.0	1.0	68.0			QL=4 ST=2 TYP=3
		127 TORN	42 SER	0851.7	0852.0	6.5	700.0	110.0		DISTURBED
		245 LEAR	8 S	0852.0	0852.0	U	77.0			QL=4 ST=2 TYP=3
		610 SVTO	8 S	0852.0	0852.0	U	28.0			QL=4 ST=2 TYP=3
		33 UPIC	46 C	0852.0	0852.5	14.0				
		2840 PEKG	5 S	0854.0	0856.7	5.0	13.5			
		245 LEAR	8 S	0856.0	0856.0	U	170.0			QL=4 ST=2 TYP=3
		245 SVTO	8 S	0856.0	0856.0	U	140.0			QL=4 ST=2 TYP=3
		410 SGMR	8 S	1354.0	1354.0	U	200.0			QL=4 ST=2 TYP=3
		410 SVTO	8 S	1354.0	1354.0	U	100.0			QL=4 ST=2 TYP=3
245 SVTO	8 S	1507.0	1509.0	2.0	370.0			QL=4 ST=2 TYP=3		
245 SVTO	8 S	1544.0E	1546.0	2.0D	94.0			QL=4 ST=2 TYP=3		
2800 PENT	1 S	1605.0	1610.0	27.0	110.0					
9500 CUBA	1 S	1609.0	1610.1	2.1	5.0	2.0				
9500 CUBA	1 S	1630.3	1630.4	0.7	24.0	12.0				
4995 SGMR	4 S/F	1705.0	1706.0	5.0	50.0			QL=4 ST=2 TYP=3		
8800 SGMR	4 S/F	1705.0	1706.0	5.0	53.0			QL=4 ST=2 TYP=3		
9500 CUBA	2 S/F	1705.8	1706.4	4.7	17.0	8.0				
15400 SGMR	8 S	1706.0	1706.0	2.0	28.0			QL=4 ST=2 TYP=3		
2695 SGMR	4 S/F	1706.0	1706.0	4.0	26.0			QL=4 ST=2 TYP=3		

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OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean (2 Hz)		
18	2800	PENT	28 PRE	1825.0	1847.0	67.0	300.0			
	9500	CUBA	2 S/F	1846.4	1847.3	5.4	22.0	11.0		
	9500	CUBA	1 S	2215.4	2215.8	1.5	34.0	17.0		
19	245	SVTO	43 NS	0523.0	0525.0	621.0	350.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0523.0	0525.0	621.0	350.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		135.0		
	127	TORN	44 NS	0620.0E		520.0D		640.0		V=1
	245	SGMR	43 NS	1121.0	1451.0	354.0	210.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1121.0	1124.0	759.0	89.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1121.0	1128.0	759.0	110.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1121.0	1355.0	759.0	150.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2242.0	0431.0	667.0	350.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2254.0	2316.0	295.0	270.0			QL=4 ST=2 TYP=1
	2840	PEKG	3 S	0609.0	0621.0	30.0	41.2			
	8800	SVTO	4 S/F	0612.0	0620.0	15.0	200.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0613.0	0620.0	14.0	110.0			QL=4 ST=2 TYP=3
	2800	HIRA	4 S/F	0615.0	0621.0	8.0	35.0			0
	4995	SVTO	4 S/F	0615.0	0620.0	8.0	82.0			QL=4 ST=2 TYP=3
	500	HIRA	7 C	0616.0	0621.0	12.0	10.0			0
	8800	LEAR	4 S/F	0619.0	0620.0	3.0	130.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	0619.5	0621.2	2.1	34.9	16.7		
	245	LEAR	49 GB	0620.0	0621.0	1.0	450.0			QL=2 ST=2 TYP=6
	4995	LEAR	8 S	0620.0	0620.0	2.0	71.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0620.0	0620.0	2.0	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0620.0	0620.0	1.0	350.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0620.0	0621.0	1.0	46.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0621.0	0621.0	U	37.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0807.0	0808.9	4.0	19.2			
	3000	IZMI	5 S	0808.6	0808.7	0.3	16.0	8.4		
	204	IZMI	25 R	1056.0		64.0		250.0		
	9500	CUBA	49 GB	1630.5	1652.2	34.0	512.0	256.0		
	9500	CUBA	49 GB	1630.5	1634.5U	34.0	293.0D	146.0D		
	4995	SGMR	48 C	1632.0	1652.0	79.0	1000.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1633.0	1652.0	67.0	1100.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1633.0	1652.0	65.0	850.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1634.0	1652.0	46.0	510.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1635.0	1648.0	45.0	330.0			QL=4 ST=2 TYP=8
	1415	SGMR	4 S/F	1635.0	1636.0	445.0	77.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	1635.0	1636.0	445.0	79.0			QL=4 ST=1 TYP=3
	610	SGMR	8 S	1636.0	1636.0	U	21.0			QL=4 ST=2 TYP=3
	610	SGMR	48 C	1636.0	1647.0	54.0	2800.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1640.0	1644.0	40.0	650.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1640.0	1647.0	50.0	2000.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	1643.0	1648.0	23.0	1600.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	1643.0	1647.0	25.0	1800.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	1643.0	1648.0	437.0	1600.0			QL=4 ST=1 TYP=8
	610	PALE	48 C	1643.0	1647.0	437.0	1800.0			QL=4 ST=1 TYP=8
	245	PALE	48 C	1644.0	1649.0	6.0	620.0			QL=4 ST=1 TYP=8
	245	PALE	48 C	1644.0	1649.0	6.0	620.0			QL=4 ST=2 TYP=8
	1415	PALE	48 C	1644.0	1648.0	26.0	300.0			QL=4 ST=2 TYP=8
	1415	PALE	4 S/F	1644.0	1648.0	436.0	300.0			QL=4 ST=1 TYP=3
	2695	PALE	48 C	1645.0	1652.0	21.0	660.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	1645.0	1652.0	25.0	1100.0			QL=4 ST=2 TYP=8
2695	PALE	48 C	1645.0	1651.0	435.0	600.0			QL=4 ST=1 TYP=8	
4995	PALE	48 C	1645.0	1650.0	435.0	710.0			QL=4 ST=1 TYP=8	
8800	PALE	48 C	1649.0	1652.0	16.0	1000.0			QL=4 ST=2 TYP=8	
8800	PALE	49 GB	1649.0	1650.0	431.0	760.0			QL=4 ST=1 TYP=6	
15400	PALE	48 C	1650.0	1652.0	20.0	630.0			QL=4 ST=2 TYP=8	
15400	PALE	4 S/F	1650.0	1651.0	430.0	260.0			QL=4 ST=1 TYP=3	
9500	CUBA	30 PBI	1704.5	1704.5	159.9	113.0	56.0			
410	PALE	8 S	1728.0	1730.0	2.0	160.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	1730.0	1730.0	U	58.0			QL=4 ST=2 TYP=3	
9500	CUBA	2 S/F	1856.2	1856.5	1.8	12.0	6.0			
2800	PENT	29 PBI	1917.0	1924.0	15.0U	210.0				
9500	CUBA	2 S/F	1923.8	1924.0	3.9	28.0	14.0			
4995	SGMR	8 S	1924.0	1924.0	U	62.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2321.0	2321.0	U	120.0			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

OCTOBER 2003

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	245	PALE	43 NS	0012.0	0100.0	217.0	330.0			QL=4 ST=2 TYP=1	
	245	PALE	43 NS	0012.0	0041.0	1428.0	160.0			QL=4 ST=1 TYP=1	
	245	PALE	43 NS	0012.0	0058.0	1428.0	250.0			QL=4 ST=1 TYP=1	
	245	PALE	43 NS	0012.0	0100.0	1428.0	330.0			QL=4 ST=1 TYP=1	
	245	SVTO	44 NS	0525.0E	1345.0	618.0D	360.0			QL=4 ST=2 TYP=1	
	245	SVTO	44 NS	0525.0E	1345.0	618.0D	360.0			QL=4 ST=2 TYP=1	
	245	SVTO	44 NS	0525.0E	0946.0U	1115.0D	250.0			QL=4 ST=1 TYP=1	
	245	SVTO	44 NS	0525.0E	1103.0U	1115.0D	260.0			QL=4 ST=1 TYP=1	
	204	IZMI	44 NS	0600.0E		360.0D		230.0			
	127	TORN	44 NS	0620.0E		520.0D		810.0			V=1
	245	SGMR	43 NS	1122.0	1852.0	579.0	400.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1122.0	1123.0	758.0	73.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1122.0	1133.0	758.0	160.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1122.0	1158.0	758.0	330.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1122.0	1309.0	758.0	340.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1122.0	1852.0	758.0	400.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2229.0	0140.0	91.0	320.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2229.0	2232.0	91.0	80.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2229.0	2310.0	91.0	110.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2229.0	2343.0	91.0	200.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2242.0	0011.0	78.0	170.0				QL=4 ST=1 TYP=1
	500	HIRA	22 GRF	0026.0	0113.0	79.0	25.0				WR
	245	PALE	8 S	0035.0	0035.0	U	100.0				QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0532.0	0536.8	8.0	8.8				
	500	HIRA	8 S	0537.0	0537.0	1.0	10.0				0
	2840	PEKG	20 GRF	0700.0	0710.8	31.0	18.7				
	15400	SVTO	4 S/F	0708.0	0710.0	32.0	140.0				QL=4 ST=2 TYP=3
	8800	SVTO	48 C	0709.0	0711.0	16.0	180.0				QL=4 ST=2 TYP=8
	8800	LEAR	8 S	0710.0	0711.0	2.0	120.0				QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0710.0	0711.0	3.0	110.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0710.0	0719.0	15.0	66.0				QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0711.0	0711.0	U	35.0				QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1419.4	1419.8	2.4	20.0	10.0			
	2800	PENT	29 PBI	1521.0	1525.0	47.0	160.0				
	9500	CUBA	2 S/F	1552.4	1552.9	3.1	38.0	19.0			
	2800	PENT	1 S	1756.0	1800.0	8.0	30.0				
	8800	SGMR	8 S	1856.0	1857.0	1.0	91.0				QL=4 ST=2 TYP=3
	9500	CUBA	3 S	1856.5	1857.0	2.4	88.0	44.0			
	9500	CUBA	21 GRF	1909.0	2028.0	106.0	20.0	10.0			
	9500	CUBA	3 S	1956.7	1958.6	6.3	48.0	24.0			
	4995	PALE	8 S	1959.0	1959.0	U	72.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	2041.0	2041.0	U	54.0				QL=4 ST=2 TYP=3
	2800	PENT	41 F	2151.0	2200.0	38.0	140.0				
	9500	CUBA	4 S/F	2155.4	2200.3	8.5	220.0	110.0			
	4995	PALE	8 S	2200.0	2200.0	U	63.0				QL=4 ST=2 TYP=3
8800	PALE	8 S	2200.0	2200.0	1.0	180.0				QL=4 ST=2 TYP=3	
15400	PALE	8 S	2200.0	2200.0	1.0	360.0				QL=4 ST=2 TYP=3	
21	410	PALE	43 NS	0232.0	0345.0	76.0	120.0			QL=4 ST=1 TYP=1	
	410	PALE	43 NS	0232.0	0256.0	1288.0	80.0			QL=4 ST=1 TYP=1	
	245	SVTO	44 NS	0526.0E	0538.0U	615.0D	200.0			QL=4 ST=2 TYP=1	
	245	SVTO	44 NS	0526.0E	0538.0U	1114.0D	200.0			QL=4 ST=1 TYP=1	
	204	IZMI	44 NS	0600.0E		360.0D		430.0			
	127	TORN	44 NS	0620.0E		520.0D		4400.0			V=0
	410	SVTO	43 NS	0642.0	1047.0	245.0	200.0				QL=4 ST=2 TYP=1
	410	SVTO	43 NS	0642.0	0642.0	1038.0	58.0				QL=4 ST=1 TYP=1
	33	UPIC	43 NS	0734.0	0830.5	405.0					
	245	SGMR	43 NS	1123.0	1658.0	583.0	240.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1123.0	1123.0	757.0	99.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1123.0	1131.0	757.0	180.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1646.0	0258.0	434.0	470.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1646.0	1646.0	434.0	58.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1646.0	1759.0	434.0	210.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1646.0	1924.0	434.0	260.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1646.0	0339.0	662.0	800.0				QL=4 ST=1 TYP=1
	500	HIRA	8 S	0040.0	0040.0	1.0	45.0				0
	245	PALE	48 C	0157.0	0326.0	1323.0	550.0				QL=4 ST=1 TYP=8
	410	PALE	20 GRF	0232.0	0323.0	1288.0	86.0				QL=4 ST=1 TYP=2
	410	LEAR	4 S/F	0326.0E	0328.0U	3.0D	63.0				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

21  
Oct 03

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		Int	Remarks
							Peak	Mean		
21	8800	LEAR	48 C	0326.0E	0338.0U	13.0D	91.0			QL=4 ST=2 TYP=8
	4995	LEAR	4 S/F	0326.0E	0328.0U	12.0D	46.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0330.0	0345.5	44.0	195.9			
	2804	VORO	28 PRE	0332.0	0338.5	10.5	12.0			
	15400	LEAR	4 S/F	0336.0E	0338.0U	3.0D	46.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0342.5	0350.5	18.0	46.8			
	500	HIRA	7 C	0344.0	0346.0	5.0	310.0			WL
	410	LEAR	49 GB	0344.0	0346.0	3.0	2900.0			QL=4 ST=2 TYP=6
	2695	LEAR	4 S/F	0344.0	0345.0	7.0	150.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0344.0	0345.0	6.0	110.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0344.0	0346.0	4.0	190.0			QL=4 ST=1 TYP=3
	2800	HIRA	3 S	0344.0	0346.0	12.0	160.0			0
	2695	LEAR	4 S/F	0344.0	0345.0	1216.0	150.0			QL=4 ST=1 TYP=3
	610	LEAR	8 S	0345.0	0346.0	2.0	75.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0345.0	0345.0	2.0	73.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0345.0	0345.0	1.0	42.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	0345.0	0346.0	3.0	64.0			QL=4 ST=1 TYP=3
	1415	PALE	4 S/F	0345.0	0346.0	3.0	60.0			QL=4 ST=1 TYP=3
	610	LEAR	4 S/F	0345.0	0346.0	1215.0	75.0			QL=4 ST=1 TYP=3
	1415	LEAR	4 S/F	0345.0	0345.0	1215.0	73.0			QL=4 ST=1 TYP=3
	4995	PALE	8 S	0346.0	0346.0	2.0	69.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0347.0	0347.0	1.0	3200.0			QL=2 ST=2 TYP=6
	500	HIRA	8 S	0433.0	0433.0	1.0	45.0			WL
	204	IZMI	42 SER	0614.6	0616.0	6.6	3784.0			
	2840	PEKG	1 S	0619.0	0621.5	4.0	3.9			
	2840	PEKG	45 C	0822.0	0824.2	10.0	68.6			
	8800	LEAR	49 GB	0823.0	0824.0	2.0	620.0			QL=4 ST=2 TYP=6
	15400	LEAR	49 GB	0823.0	0824.0	3.0	1300.0			QL=4 ST=2 TYP=6
	4995	LEAR	8 S	0823.0	0824.0	1.0	160.0			QL=4 ST=2 TYP=3
	8800	SVTO	49 GB	0823.0	0824.0	9.0	650.0			QL=4 ST=2 TYP=6
	15400	SVTO	49 GB	0823.0	0824.0	5.0	1200.0			QL=4 ST=2 TYP=6
	4995	SVTO	4 S/F	0823.0	0824.0	3.0	200.0			QL=4 ST=2 TYP=3
	3000	IZMI	45 C	0823.6	0824.0	1.2	86.0	30.6		
	2695	LEAR	8 S	0824.0	0824.0	U	48.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0824.0	0824.0	U	35.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1047.0	1047.0	U	670.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1047.0	1047.0	U	170.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1619.8	1620.8	2.2	16.0	8.0		
	9500	CUBA	2 S/F	1757.8	1758.5	1.6	43.0	21.0		
	15400	SGMR	8 S	1758.0	1758.0	U	53.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1759.0	1759.0	1.0	210.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1848.2	1848.9	1.6	8.0	4.0		
	9500	CUBA	1 S	2020.2	2021.2	1.8	25.0	12.0		
	2800	PENT	28 PRE	2028.0	2042.0	60.0	2570.0			
	2695	PALE	4 S/F	2034.0	2039.0	21.0	270.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2034.0	2039.0	206.0	270.0			QL=4 ST=1 TYP=3
	4995	PALE	4 S/F	2035.0	2038.0	17.0	200.0			QL=4 ST=2 TYP=3
15400	PALE	4 S/F	2035.0	2038.0	18.0	130.0			QL=4 ST=2 TYP=3	
15400	PALE	4 S/F	2035.0	2038.0	205.0	130.0			QL=4 ST=1 TYP=3	
9500	CUBA	46 C	2035.8	2042.0	27.4	213.0	106.0			
2695	SGMR	4 S/F	2037.0	2042.0	18.0	240.0			QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	2037.0	2042.0	18.0	420.0			QL=4 ST=2 TYP=3	
2695	SGMR	4 S/F	2037.0	2040.0	203.0	160.0			QL=4 ST=1 TYP=3	
2695	SGMR	4 S/F	2037.0	2042.0	203.0	240.0			QL=4 ST=1 TYP=3	
4995	SGMR	4 S/F	2037.0	2040.0	203.0	310.0			QL=4 ST=1 TYP=3	
4995	SGMR	4 S/F	2037.0	2042.0	203.0	420.0			QL=4 ST=1 TYP=3	
1415	SGMR	4 S/F	2038.0	2043.0	10.0	57.0			QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	2038.0	2042.0	15.0	370.0			QL=4 ST=2 TYP=3	
1415	SGMR	4 S/F	2038.0	2040.0	202.0	38.0			QL=4 ST=1 TYP=3	
1415	SGMR	4 S/F	2038.0	2043.0	202.0	57.0			QL=4 ST=1 TYP=3	
8800	SGMR	4 S/F	2038.0	2040.0	202.0	270.0			QL=4 ST=1 TYP=3	
8800	SGMR	4 S/F	2038.0	2042.0	202.0	370.0			QL=4 ST=1 TYP=3	
245	PALE	8 S	2111.0	2111.0	1.0	400.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2122.0	2122.0	U	290.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2123.0	2124.0	1.0	130.0			QL=4 ST=2 TYP=3	
500	HIRA	8 S	2126.0	2128.0	2.0	45.0			0	
2800	HIRA	8 S	2247.0	2247.0	1.0	85.0			SR	
22	245	SVTO	44 NS	0527.0E	0647.0	404.0D	600.0			QL=4 ST=2 TYP=1

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

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
22	245	SVTO	43 NS	0527.0	0532.0	1113.0	230.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0527.0	0641.0	1113.0	460.0			QL=4 ST=1 TYP=1	
	245	SVTO	44 NS	0527.0E	0647.0U	1113.0D	600.0			QL=4 ST=1 TYP=1	
	204	IZMI	44 NS	0600.0E		360.0D		312.0			
	127	TORN	44 NS	0620.0E		520.0D		2600.0			V=0
	410	LEAR	43 NS	0623.0	0659.0	82.0	71.0				QL=4 ST=2 TYP=1
	410	SVTO	44 NS	0625.0E	0645.0	346.0D	220.0				QL=4 ST=2 TYP=1
	33	UPIC	43 NS	0716.0	1215.5	494.0					
	610	SGMR	43 NS	1125.0	1125.0	50.0	190.0				QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1125.0	1130.0	76.0	1500.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1125.0	1136.0	520.0	440.0				QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1125.0	1130.0	755.0	1500.0				QL=4 ST=1 TYP=1
	610	SGMR	43 NS	1125.0	1125.0	755.0	190.0				QL=4 ST=1 TYP=1
	610	SGMR	43 NS	1125.0	1125.0U	50.0	190.0				QL=4 ST=3 TYP=1
	410	SGMR	43 NS	1125.0	1130.0U	76.0	1500.0				QL=4 ST=3 TYP=1
	245	SGMR	43 NS	1125.0	1136.0U	520.0	440.0				QL=4 ST=3 TYP=1
	245	PALE	43 NS	1835.0	1957.0	132.0	260.0				QL=4 ST=2 TYP=1
	500	HIRA	8 S	0101.0	0101.0	1.0	85.0				WR
	500	HIRA	8 S	0111.0	0111.0	1.0	35.0				0
	2804	VORO	41 F	0121.2	0123.5	2.3	14.4				
	2804	VORO	41 F	0121.2	0121.6	0.8	5.4				
	8800	PALE	8 S	0324.0	0326.0	2.0	350.0				QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	0324.0	0326.0	4.0	130.0				QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0324.0	0326.0	4.0	330.0				QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0324.0	0326.0	4.0	300.0				QL=4 ST=2 TYP=3
	2804	VORO	46 C	0325.0	0330.2	11.6	155.3				
	2840	PEKG	3 S	0325.0	0330.3	30.0	378.5				
	2804	VORO	46 C	0325.0	0429.4	64.4	217.6				
	15400	PALE	8 S	0326.0	0326.0	U	240.0				QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0327.0	0330.0	8.0	180.0				QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0327.0	0330.0	7.0	320.0				QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0327.0	0330.0	6.0	390.0				QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0327.0	0330.0	7.0	480.0				QL=4 ST=2 TYP=3
	610	PALE	8 S	0327.0	0329.0	2.0	170.0				QL=4 ST=2 TYP=3
	2800	HIRA	4 S/F	0327.0	0330.0	10.0	350.0				0
	1415	LEAR	4 S/F	0327.0	0330.0	1233.0	180.0				QL=4 ST=1 TYP=3
	2695	LEAR	4 S/F	0327.0	0330.0	1233.0	320.0				QL=4 ST=1 TYP=3
	4995	LEAR	4 S/F	0327.0	0330.0	1233.0	390.0				QL=4 ST=1 TYP=3
	8800	LEAR	4 S/F	0327.0	0330.0	1233.0	480.0				QL=4 ST=1 TYP=3
	15400	LEAR	4 S/F	0328.0	0330.0	5.0	380.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	0328.0	0328.0	U	71.0				QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0328.0	0330.0	1232.0	380.0				QL=4 ST=1 TYP=3
	500	HIRA	7 C	0330.0	0334.0	5.0	95.0				0
	610	LEAR	4 S/F	0330.0	0332.0	3.0	210.0				QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0330.0	0330.0	1230.0	34.0				QL=4 ST=1 TYP=3
	410	LEAR	8 S	0332.0	0332.0	U	84.0				QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0411.0	0429.3	38.0	202.0				
	245	LEAR	48 C	0413.0	0416.0	3.0	160.0				QL=2 ST=2 TYP=8
	500	HIRA	7 C	0414.0	0414.0	3.0	300.0				0
	410	LEAR	8 S	0414.0	0416.0	2.0	390.0				QL=4 ST=2 TYP=3
610	LEAR	8 S	0414.0	0414.0	2.0	180.0				QL=4 ST=2 TYP=3	
1415	LEAR	8 S	0414.0	0414.0	U	85.0				QL=4 ST=2 TYP=3	
4995	LEAR	8 S	0414.0	0414.0	U	55.0				QL=4 ST=2 TYP=3	
15400	LEAR	8 S	0421.0	0421.0	U	100.0				QL=4 ST=2 TYP=3	
4995	LEAR	4 S/F	0426.0	0429.0	15.0	270.0				QL=4 ST=2 TYP=3	
2800	HIRA	3 S	0426.0	0430.0	21.0	160.0				0	
8800	LEAR	4 S/F	0427.0	0429.0	5.0	210.0				QL=4 ST=2 TYP=3	
15400	LEAR	4 S/F	0427.0	0429.0	5.0	160.0				QL=4 ST=2 TYP=3	
2695	LEAR	4 S/F	0427.0	0429.0	12.0	170.0				QL=4 ST=2 TYP=3	
1415	LEAR	4 S/F	0428.0	0429.0	3.0	63.0				QL=4 ST=2 TYP=3	
2804	VORO	29 PBI	0447.5	0456.0	8.5	41.5					
410	LEAR	8 S	0558.0	0558.0	U	62.0				QL=4 ST=2 TYP=3	
410	SVTO	8 S	0558.0	0558.0	2.0	100.0				QL=4 ST=2 TYP=3	
1415	LEAR	8 S	0559.0	0559.0	U	79.0				QL=4 ST=2 TYP=3	
1415	SVTO	8 S	0559.0	0559.0	U	67.0				QL=4 ST=2 TYP=3	
1415	LEAR	4 S/F	0602.0	0604.0	3.0	140.0				QL=4 ST=2 TYP=3	
1415	SVTO	4 S/F	0602.0	0604.0	3.0	120.0				QL=4 ST=2 TYP=3	
410	LEAR	8 S	0612.0	0613.0	1.0	56.0				QL=4 ST=2 TYP=3	
610	SVTO	48 C	0613.0	0615.0	7.0	160.0				QL=2 ST=2 TYP=8	



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

23  
Oct 03

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean			
22	1415	SVTO	4 S/F	0614.0	0620.0	8.0	66.0			QL=2 ST=2 TYP=3	
	410	LEAR	8 S	0619.0	0619.0	2.0	89.0			QL=4 ST=2 TYP=3	
	1415	LEAR	8 S	0619.0	0620.0	2.0	81.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	0619.0	0619.0	1.0	110.0			QL=2 ST=2 TYP=3	
	245	LEAR	48 C	0623.0	0648.0	34.0	410.0			QL=4 ST=2 TYP=8	
	245	LEAR	48 C	0623.0	0648.0	34.0	410.0			QL=4 ST=3 TYP=8	
	410	LEAR	20 GRF	0623.0	0635.0	36.0	100.0			QL=4 ST=2 TYP=2	
	410	LEAR	20 GRF	0623.0	0635.0	36.0	100.0			QL=4 ST=3 TYP=2	
	2840	PEKG	5 S	0745.0	0747.5	5.0	16.9				
	3000	IZMI	7 C	0746.4	0747.5	1.4	19.0	8.3			
	610	LEAR	8 S	0903.0	0903.0	U	100.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	0903.0	0903.0	U	110.0				QL=4 ST=2 TYP=3
	610	LEAR	48 C	0923.0	0924.0	4.0	440.0				QL=4 ST=2 TYP=8
	610	SVTO	49 GB	0923.0	0924.0	3.0	590.0				QL=4 ST=2 TYP=6
	33	UPIC	46 C	0940.0	0942.0	3.5					
	610	SVTO	48 C	0940.0	0944.0	12.0	3500.0				QL=4 ST=2 TYP=8
	610	LEAR	48 C	0941.0	0944.0	15.0	2100.0				QL=4 ST=2 TYP=8
	245	SVTO	49 GB	0942.0	0942.0	7.0	1300.0				QL=4 ST=2 TYP=6
	8800	SVTO	8 S	0942.0	0942.0	U	42.0				QL=4 ST=2 TYP=3
	245	LEAR	48 C	0942.0	0942.0	13.0	1100.0				QL=4 ST=2 TYP=8
	410	LEAR	4 S/F	0942.0	0942.0	13.0	61.0				QL=4 ST=2 TYP=3
	204	IZMI	45 C	0942.1	0942.5	1.0	3847.0				
	127	TORN	47 GB	0942.2	0942.7	1.2	5600.0	2800.0			
	1415	SVTO	4 S/F	0944.0	0947.0	8.0	75.0				QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0947.0	0947.0	5.0	68.0				QL=4 ST=2 TYP=3
	3000	IZMI	22 GRF	0948.3	0952.9	6.7	17.0	5.5			
	204	IZMI	45 C	0955.3	0955.3	0.1	512.0				
	3000	IZMI	7 C	1029.5	1029.6	0.4	9.0	5.1			
	410	SGMR	49 GB	1125.0	1129.0	755.0	1500.0				QL=4 ST=1 TYP=6
	610	SGMR	4 S/F	1125.0	1125.0	755.0	190.0				QL=4 ST=1 TYP=3
	245	SGMR	49 GB	1215.0	1215.0	U	1200.0				QL=4 ST=2 TYP=6
	410	SGMR	8 S	1215.0	1215.0	U	110.0				QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1215.0	1215.0	1.0	66.0				QL=4 ST=2 TYP=3
	33	UPIC	48 C	1215.0	1215.5	2.5					
	127	TORN	47 GB	1215.1	1215.5	1.4	14500.0	3400.0			
	9500	CUBA	1 S	1418.1	1418.7	2.1	10.0	5.0			
	9500	CUBA	42 SER	1423.4	1424.2	4.4	25.0	12.0			
	610	SGMR	8 S	1424.0	1424.0	U	71.0				QL=4 ST=2 TYP=3
	9500	CUBA	3 S	1507.4	1509.4	5.6	79.0	39.0			
	410	SGMR	8 S	1508.0	1509.0	1.0	190.0				QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1508.0	1509.0	2.0	73.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1509.0	1509.0	U	220.0				QL=4 ST=2 TYP=3
8800	SGMR	8 S	1509.0	1509.0	1.0	51.0				QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1509.0	1509.0	1.0	87.0				QL=4 ST=2 TYP=3	
1415	SVTO	8 S	1509.0	1509.0	U	43.0				QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1509.0	1509.0	2.0	67.0				QL=4 ST=2 TYP=3	
2800	PENT	1 S	1554.0	1607.0	13.0	170.0					
15400	SGMR	8 S	1559.0	1601.0	2.0	280.0				QL=4 ST=2 TYP=3	
9500	CUBA	4 S/F	1559.5	1601.3	4.7	169.0	84.0				
8800	SGMR	8 S	1600.0	1601.0	1.0	130.0				QL=4 ST=2 TYP=3	
245	PALE	4 S/F	1646.0	0351.0	661.0	350.0				QL=4 ST=2 TYP=3	
9500	CUBA	1 S	1652.6	1652.8	3.4	19.0	9.0				
15400	PALE	8 S	1729.0	1730.0	1.0	110.0				QL=4 ST=2 TYP=3	
8800	PALE	8 S	1730.0	1730.0	U	54.0				QL=4 ST=2 TYP=3	
9500	CUBA	45 C	1730.8	1731.0	2.2	50.0	25.0				
8800	SGMR	8 S	1731.0	1731.0	1.0	50.0				QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1731.0	1731.0	1.0	89.0				QL=4 ST=2 TYP=3	
9500	CUBA	20 GRF	1756.0	1812.0	44.0	22.0	11.0				
9500	CUBA	31 ABS	1913.0	1940.2	33.0						
8800	PALE	48 C	1945.0	2009.0	41.0	1500.0				QL=4 ST=2 TYP=8	
15400	PALE	48 C	1945.0	1951.0	55.0	3000.0				QL=4 ST=2 TYP=8	
15400	SGMR	48 C	1946.0	1952.0	13.0	2800.0				QL=4 ST=2 TYP=8	
4995	PALE	48 C	1946.0	2009.0	33.0	1100.0				QL=4 ST=2 TYP=8	
8800	SGMR	48 C	1946.0	2011.0	43.0	2400.0				QL=4 ST=2 TYP=8	
9500	CUBA	49 GB	1946.0	1952.8	43.5	785.0	392.0				
4995	SGMR	48 C	1947.0	2011.0	42.0	1200.0				QL=4 ST=2 TYP=8	
4995	SGMR	48 C	1947.0	1956.0	253.0	700.0				QL=4 ST=1 TYP=8	
4995	SGMR	48 C	1947.0	1956.0	253.0	780.0				QL=4 ST=1 TYP=8	
4995	SGMR	48 C	1947.0	2011.0	253.0	1200.0				QL=4 ST=1 TYP=8	

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

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		Int	Remarks	
							Peak	Mean			
22	4995	SGMR	4 S/F	1947.0	1948.0	253.0	120.0			QL=4 ST=1 TYP=3	
	2695	PALE	48 C	1950.0	2009.0	23.0	240.0			QL=4 ST=2 TYP=8	
	2695	SGMR	48 C	1951.0	2011.0	38.0	250.0			QL=4 ST=2 TYP=8	
	2695	SGMR	48 C	1951.0	2011.0	249.0	250.0			QL=4 ST=1 TYP=8	
	2695	SGMR	4 S/F	1951.0	1952.0	249.0	79.0			QL=4 ST=1 TYP=3	
	2695	SGMR	4 S/F	1951.0	1956.0	249.0	190.0			QL=4 ST=1 TYP=3	
	2695	SGMR	4 S/F	1951.0	1956.0	249.0	210.0			QL=4 ST=1 TYP=3	
	1415	PALE	4 S/F	1954.0	2009.0	15.0	58.0			QL=4 ST=2 TYP=3	
	1415	SGMR	48 C	1955.0	1956.0	17.0	58.0			QL=4 ST=2 TYP=8	
	245	SGMR	4 S/F	1955.0	1957.0	17.0	100.0			QL=4 ST=2 TYP=3	
	410	SGMR	4 S/F	1955.0	1956.0	17.0	40.0			QL=4 ST=2 TYP=3	
	1415	SGMR	4 S/F	1955.0	1956.0	17.0	58.0			QL=4 ST=2 TYP=3	
	1415	SGMR	4 S/F	1955.0	1956.0	245.0	58.0			QL=4 ST=1 TYP=3	
	9500	CUBA	30 PBI	2029.5	2029.5	110.5D	69.0	34.0			
	8800	PALE	8 S	2156.0	2157.0	1.0	68.0				QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2156.0	2157.0	3.0	190.0				QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	2157.8	2158.3	2.7	77.0	38.0			
	500	HIRA	7 C	2242.0	2244.0	4.0	35.0				0
	410	LEAR	8 S	2244.0	2244.0	U	63.0				QL=4 ST=2 TYP=3
	8800	LEAR	8 S	2244.0	2244.0	1.0	60.0				QL=4 ST=2 TYP=3
	2804	VORO	25 R	2335.0	2443.7	68.7	13.8				
	245	LEAR	8 S	2336.0	2336.0	U	72.0				QL=2 ST=2 TYP=3
23	245	LEAR	43 NS	0048.0	0106.0	167.0	110.0			QL=4 ST=2 TYP=1	
	245	PALE	43 NS	0049.0	0108.0	177.0	110.0			QL=4 ST=2 TYP=1	
	204	IZMI	44 NS	0600.0E		360.0D		130.0			
	127	TORN	44 NS	0620.0E		400.0D		840.0		V=0, DISTURBED	
	33	UPIC	43 NS	0808.0		386.0					
	245	SVTO	43 NS	1119.0	1320.0U	168.0	170.0				QL=2 ST=2 TYP=1
	245	SGMR	43 NS	1126.0	1830.0	603.0	310.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1126.0	1830.0	603.0	310.0				QL=4 ST=3 TYP=1
	245	SGMR	43 NS	1126.0	1126.0	754.0	59.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1126.0	1320.0	754.0	100.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1126.0	1808.0	754.0	120.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1126.0	1830.0	754.0	310.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2229.0	2237.0	76.0	56.0				QL=4 ST=2 TYP=1
	245	PALE	8 S	0029.0	0029.0	1.0	82.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0043.0	0043.0	U	51.0				QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0113.0	0115.9	6.0	36.9				
	245	LEAR	49 GB	0115.0	0115.0	1.0	2200.0				QL=2 ST=2 TYP=6
	8800	LEAR	4 S/F	0115.0	0115.0	3.0	73.0				QL=4 ST=2 TYP=3
	2804	VORO	40 F	0115.0	0115.9	2.5	48.1				
	2800	HIRA	8 S	0116.0	0116.0	1.0	45.0				0
	410	LEAR	8 S	0116.0	0116.0	U	60.0				QL=4 ST=2 TYP=3
	245	PALE	49 GB	0236.0	0237.0	3.0	1300.0				QL=4 ST=2 TYP=6
	15400	PALE	8 S	0236.0	0237.0	2.0	68.0				QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0236.0	0237.0	3.0	460.0				QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0236.0	0239.7	10.0	44.0				
	610	PALE	8 S	0237.0	0238.0	2.0	61.0				QL=4 ST=2 TYP=3
	1415	PALE	8 S	0237.0	0238.0	1.0	53.0				QL=4 ST=2 TYP=3
	2695	PALE	8 S	0237.0	0237.0	U	54.0				QL=4 ST=2 TYP=3
	500	HIRA	7 C	0238.0	0241.0	4.0	255.0				0
	245	LEAR	49 GB	0238.0	0238.0	2.0	1000.0				QL=2 ST=2 TYP=6
	410	LEAR	8 S	0238.0	0238.0	2.0	340.0				QL=4 ST=2 TYP=3
	610	LEAR	8 S	0238.0	0240.0	2.0	74.0				QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0238.0	0238.0	2.0	170.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	0238.0	0238.0	U	91.0				QL=4 ST=2 TYP=3
	2804	VORO	40 F	0238.1	0239.2	4.3	52.3				
	2800	HIRA	8 S	0239.0	0240.0	2.0	40.0				MR
	1415	LEAR	8 S	0239.0	0239.0	U	51.0				QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0239.0	0239.0	1.0	86.0				QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0519.0	0522.8	6.0	15.3				
	15400	LEAR	8 S	0522.0	0523.0	1.0	210.0				QL=4 ST=2 TYP=3
2800	HIRA	8 S	0523.0	0523.0	1.0	35.0				0	
8800	LEAR	8 S	0523.0	0523.0	U	110.0				QL=4 ST=2 TYP=3	
245	LEAR	8 S	0535.0	0535.0	1.0	100.0				QL=4 ST=2 TYP=3	
245	SVTO	8 S	0535.0	0535.0	U	84.0				QL=4 ST=2 TYP=3	
2840	PEKG	1 S	0544.0	0546.9	6.0	6.6					
204	IZMI	7 C	0628.0	0628.1	0.1	55.0					

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

25  
Oct 03

OCTOBER 2003

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	204	IZMI	42 SER	0629.9	0629.9	0.2	116.0			
	245	SVTO	8 S	0630.0	0630.0	1.0	200.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0630.0	0631.0	1.0	48.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0630.7	0630.9	0.7	507.0			
	245	LEAR	8 S	0631.0	0631.0	U	210.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0632.9	0633.6	1.8	83.0			
	2840	PEKG	1 S	0648.0	0651.4	6.0	8.0			
	2840	PEKG	5 S	0703.0	0705.8	7.0	152.7			
	33	UPIC	46 C	0704.0	0706.0	5.0				
	204	IZMI	42 SER	0704.1	0706.8	7.2	4107.0			
	127	TORN	47 GB	0704.8	0706.4	3.0	6400.0	1700.0		
	500	HIRA	47 GB	0705.0	0707.0	3.0	530.0			MR
	410	LEAR	49 GB	0705.0	0706.0	1.0	820.0			QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0705.0	0706.0	2.0	820.0			QL=4 ST=2 TYP=6
	15400	LEAR	49 GB	0705.0	0706.0	2.0	850.0			QL=4 ST=2 TYP=6
	610	LEAR	8 S	0705.0	0706.0	1.0	190.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0705.0	0706.0	1.0	190.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0705.0	0706.0	1.0	150.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0705.0	0706.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0705.0	0706.0	2.0	390.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0705.0	0706.0	3.0	1800.0			QL=4 ST=2 TYP=6
	410	SVTO	49 GB	0705.0	0706.0	2.0	860.0			QL=4 ST=2 TYP=6
	15400	SVTO	49 GB	0705.0	0705.0	2.0	690.0			QL=4 ST=2 TYP=6
	1415	SVTO	8 S	0705.0	0705.0	1.0	150.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0705.0	0706.0	1.0	160.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0705.0	0705.0	1.0	85.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0705.0	0705.0	1.0	280.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0705.0	0706.0	11.0	1800.0			QL=4 ST=2 TYP=6
	3000	IZMI	45 C	0705.7	0705.9	1.4	97.0	14.6		
	2800	HIRA	8 S	0706.0	0706.0	1.0	120.0			SR
	1415	LEAR	8 S	0706.0	0706.0	U	150.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0706.0	0706.0	U	150.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0706.0	0706.0	U	180.0			QL=4 ST=2 TYP=3
	2840	PEKG	47 GB	0805.0	0902.3		1031.8			
	2840	PEKG	47 GB	0805.0	0905.5	68.0D	1366.8			
	2840	PEKG	47 GB	0805.0	0844.6		866.2			
	33	UPIC	46 C	0812.0	0814.0	4.0				
	127	TORN	42 SER	0815.2	0816.3	12.2	10000.0	1200.0		
	4995	LEAR	48 C	0817.0	0840.0	93.0	3100.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0817.0	0840.0	93.0	6600.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	0817.0	0827.0	90.0	10000.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	0817.0	0840.0	106.0	6200.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	0817.0	0840.0	122.0	3500.0			QL=4 ST=2 TYP=8
	204	IZMI	41 F	0817.7	0818.3	1.0	366.0			
	3000	IZMI	46 C	0817.8	0844.2	35.2	840.0	284.5		
	245	LEAR	8 S	0818.0	0818.0	U	440.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0818.0	0818.0	7.0	440.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0818.0	0827.0	37.0	10000.0			QL=4 ST=2 TYP=6
	15400	LEAR	48 C	0818.0	0827.0	92.0	10000.0			QL=4 ST=2 TYP=8
	245	LEAR	49 GB	0818.0	0827.0	92.0	10000.0			QL=4 ST=2 TYP=6
2695	SVTO	48 C	0823.0	0904.0	105.0	1500.0			QL=4 ST=2 TYP=8	
204	IZMI	42 SER	0823.0	0840.2	34.5	242.0				
410	SVTO	48 C	0824.0	0827.0	25.0	140.0			QL=4 ST=2 TYP=8	
2695	LEAR	48 C	0824.0	0903.0	86.0	1500.0			QL=4 ST=2 TYP=8	
33	UPIC	46 C	0824.0	0824.5	2.5					
410	LEAR	8 S	0825.0	0825.0	U	51.0			QL=4 ST=2 TYP=3	
610	SVTO	48 C	0825.0	0833.0	21.0	210.0			QL=4 ST=2 TYP=8	
1415	LEAR	48 C	0825.0	0905.0	85.0	660.0			QL=4 ST=2 TYP=8	
1415	SVTO	48 C	0825.0	0905.0	91.0	610.0			QL=4 ST=2 TYP=8	
204	IZMI	46 C	0826.2	0827.0	2.6	18965.0				
610	LEAR	20 GRF	0827.0	0939.0	83.0	73.0			QL=4 ST=2 TYP=2	
33	UPIC	46 C	0832.5	0833.5	4.5					
3000	IZMI	45 C	0853.3	0903.4	74.2	956.0	189.8			
2695	SVTO	4 S/F	1032.0	1044.0	26.0	130.0			QL=4 ST=2 TYP=3	
4995	SVTO	4 S/F	1032.0	1040.0	25.0	120.0			QL=4 ST=2 TYP=3	
1415	SVTO	4 S/F	1033.0	1043.0	24.0	100.0			QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	1036.0	1042.0	17.0	74.0			QL=4 ST=2 TYP=3	
204	IZMI	42 SER	1049.7	1051.7	3.3	1611.0				
245	SVTO	8 S	1051.0	1051.0	1.0	360.0			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

OCTOBER 2003

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	410	SGMR	4 S/F	1606.0	1607.0	5.0	68.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1839.0	1839.8	2.0	16.0	8.0		
	245	PALE	8 S	1909.0	1911.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1909.0	1911.0	2.0	100.0			QL=4 ST=3 TYP=3
	245	PALE	48 C	1949.0	1954.0	251.0	4100.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	1952.0	1956.0	5.0	250.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1952.0	1954.0	6.0	510.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	1952.0	1955.0	44.0	640.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	1952.0	1956.0	53.0	250.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	1952.0	1955.0	122.0	640.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	1952.0	2159.0	136.0	700.0			QL=4 ST=2 TYP=8
	610	PALE	8 S	1953.0	1953.0		60.0			QL=4 ST=2 TYP=3
	4995	PALE	48 C	1953.0	1955.0	17.0	190.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	1953.0	1955.0	17.0	190.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	1953.0	1955.0	13.0	200.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	1953.0	1955.0	13.0	200.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1953.0	1957.0	21.0	610.0			QL=4 ST=2 TYP=8
	2695	PALE	20 GRF	1953.0	1955.0	34.0	77.0			QL=4 ST=2 TYP=2
	2695	PALE	20 GRF	1953.0	1955.0	34.0	77.0			QL=4 ST=2 TYP=2
	2695	PALE	48 C	1953.0	1955.0	127.0	77.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	1953.0	2159.0	129.0	240.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	1953.0	2159.0	129.0	240.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	1953.0	2159.0	127.0	290.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	1953.0	2159.0	127.0	290.0			QL=4 ST=2 TYP=8
	8800	SGMR	49 GB	1953.0	1957.0	247.0	610.0			QL=4 ST=1 TYP=6
	9500	CUBA	4 S/F	1953.5	1958.5	22.0	369.0	184.0		
	410	SGMR	48 C	1954.0	1957.0	6.0	240.0			QL=4 ST=2 TYP=8
	610	SGMR	4 S/F	1954.0	1955.0	3.0	71.0			QL=4 ST=2 TYP=3
	4995	SGMR	48 C	1954.0	1957.0	19.0	220.0			QL=4 ST=2 TYP=8
	245	SGMR	49 GB	1954.0	1956.0	19.0	2500.0			QL=4 ST=2 TYP=6
	2695	SGMR	4 S/F	1954.0	1957.0	18.0	65.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1954.0	1957.0	246.0	65.0			QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	1954.0	1957.0	246.0	220.0			QL=4 ST=1 TYP=3
	1415	SGMR	8 S	1956.0	1956.0		21.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1956.0	2014.0	18.0	33.0			QL=4 ST=2 TYP=3
	1415	PALE	48 C	2019.0	2025.0	7.0	180.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	2019.0	2027.0	11.0	180.0			QL=4 ST=2 TYP=8
	2695	SGMR	4 S/F	2021.0	2023.0	12.0	55.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	2021.9	2023.2	3.1	36.0	18.0		
	610	SGMR	8 S	2022.0	2022.0		25.0			QL=4 ST=2 TYP=3
8800	SGMR	8 S	2022.0	2023.0	1.0	100.0			QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	2022.0	2023.0	8.0	50.0			QL=4 ST=2 TYP=3	
9500	CUBA	1 S	2038.0	2038.2	1.0	13.0	6.0			
9500	CUBA	2 S/F	2114.0	2115.0	6.0	20.0	10.0			
9500	CUBA	2 S/F	2159.6	2202.0U	5.1	60.0D	30.0D			
500	HIRA	42 SER	2200.0	2218.0	26.0	35.0			0	
2800	HIRA	42 SER	2200.0	2200.0	50.0	65.0			0	
9500	CUBA	4 S/F	2213.1	2218.1	9.9	176.0	88.0			
8800	LEAR	8 S	2306.0	2307.0	1.0	100.0			QL=4 ST=2 TYP=3	
4995	LEAR	8 S	2307.0	2307.0		54.0			QL=4 ST=2 TYP=3	
24	245	SVTO	44 NS	0529.0E	0613.0U	150.0D	100.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		210.0		
	245	SGMR	43 NS	1127.0	1220.0	600.0	360.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1127.0	1127.0	753.0	93.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1127.0	1135.0	753.0	180.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1127.0	1156.0	753.0	190.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1127.0	1202.0	753.0	300.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1127.0	1220.0	753.0	360.0			QL=4 ST=1 TYP=1
	245	SVTO	44 NS	1139.0E	1220.0	238.0D	220.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	1200.0E		180.0D		360.0		V=0
	245	LEAR	43 NS	2330.0	0126.0	620.0	140.0			QL=4 ST=2 TYP=1
	4995	LEAR	8 S	0053.0	0053.0		55.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0053.0	0053.0		100.0			QL=4 ST=2 TYP=3
	2804	VORO	3 S	0058.8	0102.5	9.2	4.3			
	2840	PEKG	3 S	0131.0	0138.5	19.0	24.5			
	2804	VORO	3 S	0135.0	0138.6	7.2	19.0			
4995	PALE	8 S	0136.0	0136.0	2.0	100.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	0136.0	0136.0	1.0	110.0			QL=4 ST=2 TYP=3	

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

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Oct 03

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m	2 Hz)		
24	4995	PALE	48 C	0136.0	0255.0	101.0	2000.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	0136.0	0250.0	102.0	3800.0			QL=4 ST=2 TYP=8
	4995	LEAR	8 S	0138.0	0138.0	1.0	86.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0138.0	0138.0	1.0	82.0			QL=4 ST=2 TYP=3
	2804	VORO	30 PBI	0142.2	0145.2	26.8	5.9			
	15400	PALE	48 C	0155.0	0250.0	82.0	6000.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	0157.0	0157.0	2.0	97.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0157.0	0157.0		69.0		U	QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0157.0	0157.0		85.0		U	QL=4 ST=2 TYP=3
	2840	PEKG	47 GB	0212.0	0254.2	94.0	486.4			
	2804	VORO	47 GB	0222.5	0254.0	78.0	525.6			
	4995	LEAR	48 C	0224.0	0257.0	56.0	1600.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0224.0	0252.0	58.0	3800.0			QL=4 ST=2 TYP=8
	15400	LEAR	48 C	0224.0	0252.0	62.0	5100.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	0225.0	0244.0	33.0	200.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	0225.0	0244.0	43.0	8100.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	0225.0	0244.0	1295.0	8100.0			QL=4 ST=1 TYP=8
	410	PALE	48 C	0225.0	0230.0	1295.0	160.0			QL=4 ST=1 TYP=8
	410	PALE	48 C	0225.0	0244.0	1295.0	200.0			QL=4 ST=1 TYP=8
	245	LEAR	48 C	0227.0	0246.0	55.0	6800.0			QL=4 ST=2 TYP=8
	2695	PALE	4 S/F	0228.0	0229.0	4.0	72.0			QL=4 ST=2 TYP=3
	2695	PALE	48 C	0228.0	0251.0	47.0	630.0			QL=4 ST=2 TYP=8
	2695	LEAR	4 S/F	0230.0	0233.0	5.0	73.0			QL=4 ST=2 TYP=3
	2695	LEAR	48 C	0230.0	0254.0	47.0	490.0			QL=4 ST=2 TYP=8
	410	LEAR	8 S	0231.0	0232.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	LEAR	48 C	0231.0	0246.0	26.0	140.0			QL=4 ST=2 TYP=8
	1415	PALE	4 S/F	0244.0	0249.0	24.0	150.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	0244.0	0245.0	1276.0	71.0			QL=4 ST=1 TYP=3
	1415	LEAR	48 C	0245.0	0250.0	26.0	150.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	0250.0	0251.0	6.0	220.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0251.0	0253.0	6.0	220.0			QL=4 ST=2 TYP=8
	2840	PEKG	3 S	0501.0	0510.0	26.0	109.7			
	500	HIRA	47 GB	0506.0	0509.0	10.0	1995.0			0
	2800	HIRA	3 S	0507.0	0510.0	9.0	95.0			0
	2695	LEAR	4 S/F	0507.0	0509.0	3.0	91.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0507.0	0508.0	3.0	130.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0507.0	0508.0	3.0	310.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0508.0	0509.0	2.0	82.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0509.0	0509.0	1.0	280.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0604.0	0605.0	2.0	130.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0604.0	0605.4	4.0	6.3			
	8800	LEAR	8 S	0605.0	0605.0		180.0		U	QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0605.0	0605.0	1.0	170.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0605.0	0605.0		38.0		U	QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0605.0	0605.0	1.0	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0617.0	0619.6	6.0	44.0			
	2800	HIRA	8 S	0620.0	0620.0	1.0	65.0			0
	15400	LEAR	8 S	0719.0	0719.0		88.0		U	QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0729.2	0730.0	3.0	90.0			
	33	UPIC	42 SER	0828.0	0839.5	12.0				
	4995	SVTO	8 S	0837.0	0837.0	1.0	36.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0837.0	0837.0	1.0	39.0			QL=4 ST=2 TYP=3
245	LEAR	49 GB	0839.0	0840.0	1.0	1300.0			QL=4 ST=2 TYP=6	
245	SVTO	49 GB	0839.0	0840.0	1.0	1400.0			QL=4 ST=2 TYP=6	
204	IZMI	42 SER	0839.5	0839.6	0.9	920.0				
410	SVTO	8 S	0840.0	0840.0		41.0		U	QL=4 ST=2 TYP=3	
204	IZMI	45 C	0840.1	0840.1	0.1	6695.0				
245	SVTO	48 C	0946.0	0947.0	13.0	1500.0			QL=2 ST=2 TYP=8	
204	IZMI	41 F	0947.2	0947.5	0.8	1730.0				
204	IZMI	45 C	0948.3	0948.3	0.1	1006.0				
410	SVTO	48 C	0949.0	0949.0	10.0	150.0			QL=2 ST=2 TYP=8	
610	SVTO	8 S	0953.0	0953.0	1.0	90.0			QL=2 ST=2 TYP=3	
8800	SVTO	4 S/F	0953.0	0954.0	3.0	31.0			QL=2 ST=2 TYP=3	
4995	SVTO	8 S	0954.0	0954.0	2.0	28.0			QL=2 ST=2 TYP=3	
1415	SVTO	8 S	0958.0	0958.0		68.0		U	QL=2 ST=2 TYP=3	
33	UPIC	46 C	1006.0	1008.5	8.0					
33	UPIC	47 GB	1028.5	1034.5U	20.5					
204	IZMI	42 SER	1028.5	1045.9	20.2	722.0				
245	SVTO	8 S	1034.0	1034.0		340.0		U	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

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
24	610	SVTO	8 S	1034.0	1034.0	U	360.0			QL=4 ST=2 TYP=3	
	1415	SVTO	8 S	1034.0	1034.0	1.0	150.0			QL=4 ST=2 TYP=3	
	2695	SVTO	8 S	1034.0	1034.0	U	28.0			QL=4 ST=2 TYP=3	
	4995	SVTO	8 S	1034.0	1034.0	U	43.0			QL=4 ST=2 TYP=3	
	8800	SVTO	8 S	1034.0	1034.0	1.0	93.0			QL=4 ST=2 TYP=3	
	15400	SVTO	8 S	1034.0	1034.0	1.0	100.0			QL=4 ST=2 TYP=3	
	9500	CUBA	20 GRF	1259.0E	1259.0D	17.0D	12.0	6.0			
	9500	CUBA	21 GRF	1521.0	1614.0	121.0	37.0	18.0			
	2800	PENT	29 PBI	1526.0	1536.0	66.0U	2250.0				
	245	SGMR	48 C	1528.0	1546.0	31.0	1100.0				QL=4 ST=2 TYP=8
	410	SGMR	48 C	1528.0	1546.0	31.0	240.0				QL=4 ST=2 TYP=8
	610	SGMR	4 S/F	1528.0	1535.0	31.0	87.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1530.0	1536.0	29.0	260.0				QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1532.0E	1536.0	4.0D	470.0				QL=4 ST=2 TYP=3
	15400	SGMR	48 C	1532.0	1536.0	27.0	500.0				QL=4 ST=2 TYP=8
	610	SVTO	48 C	1533.0E	1536.0	3.0D	94.0				QL=4 ST=2 TYP=8
	1415	SVTO	4 S/F	1533.0E	1536.0	3.0D	100.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1534.0E	1536.0	2.0D	57.0				QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1534.0E	1536.0	2.0D	270.0				QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1534.0E	1536.0	2.0D	390.0				QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1534.0E	1536.0	2.0D	380.0				QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1534.0	1536.0	25.0	160.0				QL=4 ST=2 TYP=3
	8800	SGMR	48 C	1535.0	1536.0	24.0	510.0				QL=4 ST=2 TYP=8
	4995	SGMR	4 S/F	1535.0	1536.0	24.0	360.0				QL=4 ST=2 TYP=3
	9500	CUBA	42 SER	1545.0	1546.8	11.8	25.0	12.0			
	245	PALE	48 C	1649.0	1659.0	12.0	96.0				QL=4 ST=2 TYP=8
	2695	PALE	8 S	1658.0	1658.0	U	62.0				QL=4 ST=2 TYP=3
	4995	PALE	8 S	1658.0	1658.0	1.0	130.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	1658.0	1658.0	U	140.0				QL=4 ST=2 TYP=3
	15400	PALE	8 S	1658.0	1658.0	U	58.0				QL=4 ST=2 TYP=3
	8800	PALE	48 C	1738.0	1842.0	64.0	71.0				QL=4 ST=2 TYP=8
	2800	PENT	29 PBI	1826.0	1842.0	66.0U	710.0				
	9500	CUBA	4 S/F	1841.8	1842.5	8.2	97.0	48.0			
	4995	PALE	8 S	1842.0	1842.0	1.0	120.0				QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1842.0	1842.0	U	85.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1842.0	1842.0	3.0	150.0				QL=4 ST=2 TYP=3
	8800	PALE	48 C	2020.0	2023.0	4.0	220.0				QL=4 ST=2 TYP=8
	9500	CUBA	4 S/F	2021.0	2023.4	5.9	172.0	86.0			
	15400	PALE	8 S	2022.0	2023.0	2.0	160.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	2023.0	2023.0	U	330.0				QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2023.0	2023.0	U	110.0				QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2055.0	2138.0	54.0	430.0				
	8800	PALE	48 C	2131.0	2139.0	9.0	520.0				QL=4 ST=2 TYP=8
	245	PALE	48 C	2135.0	2135.0	2.0	580.0				QL=4 ST=2 TYP=8
	245	PALE	48 C	2135.0	2135.0	2.0	580.0				QL=4 ST=3 TYP=8
	410	PALE	8 S	2135.0	2135.0	U	120.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	2135.0	2135.0	U	120.0				QL=4 ST=3 TYP=3
	500	HIRA	47 GB	2135.0	2140.0	11.0	950.0				MR
	9500	CUBA	3 S	2137.0	2137.8	2.8	381.0	190.0			
	4995	PALE	8 S	2138.0	2139.0	1.0	140.0				QL=4 ST=2 TYP=3
15400	PALE	8 S	2138.0	2139.0	1.0	410.0				QL=4 ST=2 TYP=3	
610	PALE	8 S	2139.0	2139.0	U	250.0				QL=4 ST=2 TYP=3	
610	PALE	8 S	2139.0	2139.0	1.0	250.0				QL=4 ST=2 TYP=3	
245	PALE	48 C	2142.0	2142.0	1438.0	1500.0				QL=4 ST=2 TYP=8	
25	410	SVTO	43 NS	0559.0	0624.0	229.0	130.0			QL=4 ST=3 TYP=1	
	410	SVTO	43 NS	0559.0	1216.0	377.0	130.0			QL=4 ST=2 TYP=1	
	204	IZMI	44 NS	0600.0E		360.0D		140.0			
	245	SVTO	44 NS	0607.0E	1330.0U	568.0D	160.0			QL=4 ST=2 TYP=1	
	127	TORN	44 NS	0620.0E		520.0D		1100.0		V=0	
	245	SGMR	43 NS	1128.0	1252.0	577.0	170.0				QL=2 ST=2 TYP=1
	410	SGMR	43 NS	1239.0	1748.0	506.0	100.0				QL=2 ST=2 TYP=1
	245	PALE	43 NS	1649.0	2344.0	656.0	530.0				QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2201.0	0215.0	710.0	760.0				QL=4 ST=2 TYP=1
	410	LEAR	43 NS	2201.0	0132.0	710.0	140.0				QL=4 ST=2 TYP=1
	500	HIRA	8 S	0016.0	0016.0	2.0	20.0				0
	8800	LEAR	8 S	0019.0	0019.0	U	63.0				QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0019.0	0019.0	U	110.0				QL=4 ST=2 TYP=3
15400	PALE	8 S	0019.0	0019.0	U	85.0				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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Oct 03

OCTOBER 2003

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	LEAR	48 C	0150.0	0152.0	2.0	400.0			QL=4 ST=2 TYP=8
	410	LEAR	8 S	0150.0	0152.0	2.0	88.0			QL=4 ST=2 TYP=3
	500	HIRA	47 GB	0153.0	0156.0	7.0	600.0			0
	245	PALE	48 C	0153.0	0156.0	6.0	2300.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	0153.0	0156.0	8.0	1600.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	0153.0	0156.0	1327.0	2300.0			QL=4 ST=1 TYP=8
	410	PALE	49 GB	0153.0	0156.0	1327.0	1600.0			QL=4 ST=1 TYP=6
	245	LEAR	48 C	0155.0	0156.0	4.0	2100.0			QL=4 ST=2 TYP=8
	410	LEAR	48 C	0155.0	0156.0	4.0	1900.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0155.0	0156.0	3.0	490.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	0155.0	0156.0	3.0	440.0			QL=4 ST=2 TYP=8
	610	LEAR	4 S/F	0155.0	0156.0	1325.0	88.0			QL=4 ST=1 TYP=3
	610	PALE	4 S/F	0155.0	0156.0	1325.0	200.0			QL=4 ST=1 TYP=3
	8800	LEAR	8 S	0204.0	0205.0	2.0	53.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0204.0	0204.0	1.0	98.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0204.0	0205.0	7.0	120.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0205.0	0205.0	U	56.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0255.0	0258.0	6.0	29.4			
	245	PALE	49 GB	0257.0	0259.0	5.0	980.0			QL=4 ST=2 TYP=6
	2804	VORO	2 S/F	0257.0	0258.8	3.1	27.5			
	500	HIRA	7 C	0258.0	0300.0	3.0	445.0			WR
	2800	HIRA	1 S	0258.0	0259.0	2.0	25.0			0
	245	LEAR	49 GB	0258.0	0259.0	2.0	940.0			QL=4 ST=2 TYP=6
	610	LEAR	8 S	0258.0	0300.0	2.0	360.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0258.0	0258.0	1.0	66.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	0258.0	0300.0	3.0	300.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0259.0	0259.0	1.0	530.0			QL=4 ST=2 TYP=6
	410	PALE	49 GB	0259.0	0300.0	2.0	570.0			QL=4 ST=2 TYP=6
	15400	LEAR	8 S	0332.0	0333.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0333.0	0333.0	U	43.0			QL=4 ST=2 TYP=3
	500	HIRA	7 C	0337.0	0341.0	7.0	290.0			0
	410	LEAR	48 C	0337.0	0341.0	6.0	1400.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0337.0	0340.0	4.0	68.0			QL=4 ST=2 TYP=8
	245	LEAR	48 C	0339.0	0343.0	7.0	1000.0			QL=4 ST=2 TYP=8
	2804	VORO	40 F	0342.5	0342.8	1.4	19.3			
	1415	LEAR	8 S	0343.0	0343.0	U	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0352.0	0352.0	1.0	380.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0403.0	0427.9	50.0	113.5			
	2804	VORO	45 C	0405.0	0428.5	30.0	54.5			
	2800	HIRA	1 S	0414.0	0428.0	20.0	35.0			0
	1415	LEAR	4 S/F	0422.0	0428.0	10.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0422.0	0424.0	11.0	64.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0423.0	0427.0	7.0	42.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0427.0	0428.0	2.0	46.0			QL=4 ST=2 TYP=3
	2804	VORO	30 PBI	0435.0	0435.6	110.0	31.6			
	500	HIRA	4 S/F	0436.0	0444.0	20.0	85.0			0
	610	LEAR	48 C	0438.0	0439.0	7.0	110.0			QL=4 ST=2 TYP=8
	2804	VORO	45 C	0442.5	0444.2	10.0	14.1			
	2840	PEKG	1 S	0514.0	0517.5	9.0	8.8			
	410	LEAR	8 S	0515.0	0516.0	2.0	75.0			QL=4 ST=2 TYP=3
500	HIRA	8 S	0516.0	0517.0	2.0	50.0			0	
500	HIRA	4 S/F	0525.0	0528.0	16.0	50.0			0	
245	LEAR	48 C	0525.0	0554.0	32.0	1100.0			QL=4 ST=2 TYP=8	
410	LEAR	48 C	0525.0	0547.0	42.0	190.0			QL=4 ST=2 TYP=8	
410	SVTO	48 C	0530.0	0554.0U	29.0	250.0			QL=4 ST=2 TYP=8	
245	SVTO	48 C	0530.0	0554.0U	37.0	1200.0			QL=4 ST=2 TYP=8	
610	SVTO	48 C	0530.0	0554.0U	34.0	1100.0			QL=4 ST=2 TYP=8	
2840	PEKG	20 GRF	0534.0	0548.1	18.0	9.8				
2840	PEKG	3 S	0534.0	0548.1	68.0	138.6				
2804	VORO	46 C	0536.8	0547.4	23.2	110.5				
2800	HIRA	7 C	0537.0	0548.0	20.0	130.0			0	
8800	LEAR	48 C	0537.0	0548.0	34.0	220.0			QL=4 ST=2 TYP=8	
15400	LEAR	48 C	0537.0	0548.0	30.0	190.0			QL=4 ST=2 TYP=8	
4995	LEAR	4 S/F	0537.0	0548.0	42.0	170.0			QL=4 ST=2 TYP=3	
8800	SVTO	48 C	0538.0	0548.0	23.0	150.0			QL=2 ST=2 TYP=8	
2695	SVTO	48 C	0541.0	0547.0	7.0	100.0			QL=2 ST=2 TYP=8	
1415	SVTO	48 C	0544.0	0546.0	10.0	440.0			QL=2 ST=2 TYP=8	
1415	LEAR	48 C	0545.0	0546.0	9.0	360.0			QL=4 ST=2 TYP=8	
2695	LEAR	4 S/F	0545.0	0547.0	12.0	130.0			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

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
25	4995	SVTO	8 S	0547.0	0548.0	1.0	70.0			QL=2 ST=2 TYP=3
	500	HIRA	7 C	0547.0	0558.0	14.0	100.0			WR
	610	LEAR	48 C	0549.0	0555.0	10.0	270.0			QL=4 ST=2 TYP=8
	204	IZMI	45 C	0553.9	0554.5	2.4	1832.0			
	33	UPIC	46 C	0844.5	0846.0	4.5				
	204	IZMI	46 C	1026.5	1029.7	6.2	3634.9			
	8800	SVTO	49 GB	1028.0	1030.0	17.0	1200.0			QL=4 ST=2 TYP=6
	2695	SVTO	4 S/F	1028.0	1029.0	10.0	220.0			QL=4 ST=2 TYP=3
	4995	SVTO	48 C	1028.0	1029.0	21.0	390.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1028.0	1029.0	21.0	3800.0			QL=4 ST=2 TYP=8
	3000	IZMI	45 C	1028.0	1029.8	9.7	213.0	63.5		
	410	SVTO	49 GB	1029.0	1029.0	3.0	5400.0			QL=4 ST=2 TYP=6
	8800	SGMR	8 S	1216.0	1216.0	1.0	52.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1216.0	1216.0	4.0	95.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1232.0	1232.0	1.0	150.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1232.0	1232.0	U	93.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1344.0	1344.0	U	72.0			QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	1437.0	1453.0	50.0	48.0	24.0		
	15400	SGMR	4 S/F	1438.0	1440.0	3.0	54.0			QL=4 ST=2 TYP=3
	9500	CUBA	4 S/F	1438.5	1440.2	10.5	67.0	33.0		
	410	SGMR	8 S	1439.0	1439.0	U	90.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1439.0	1440.0	1.0	66.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1439.0	1439.0	U	62.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1439.0	1440.0	1.0	61.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1445.0	1446.0	3.0	56.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1445.0	1446.0	3.0	62.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1445.0	1446.0	1.0	60.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1821.0	1821.4	1.0	16.0	8.0		
	8800	PALE	8 S	2037.0	2037.0	U	56.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2042.0	2042.0	U	71.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	2214.0	2218.0	18.0	81.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2215.0	2231.0	17.0	93.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	2231.0	2231.0	U	43.0			QL=4 ST=2 TYP=3
8800	LEAR	8 S	2231.0	2231.0	U	110.0			QL=4 ST=2 TYP=3	
4995	PALE	8 S	2231.0	2231.0	1.0	65.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	2231.0	2231.0	1.0	140.0			QL=4 ST=2 TYP=3	
15400	PALE	8 S	2231.0	2231.0	U	110.0			QL=4 ST=2 TYP=3	
2840	PEKG	1 S	2345.0	2347.3	4.0	8.7				
2804	VORO	23 GRF	2346.5	0123.7	200.0	10.5				
2804	VORO	1 S	2346.8	2347.4	1.2	7.4				
26	245	SVTO	43 NS	0532.0	0907.0	513.0	260.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0532.0	0907.0	1108.0	260.0			QL=4 ST=1 TYP=1
	410	SVTO	43 NS	0532.0	0930.0U	407.0	200.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0532.0	0907.0U	513.0	260.0			QL=4 ST=3 TYP=1
	245	SVTO	43 NS	0532.0	0436.0U	1108.0	250.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0532.0	0536.0U	1108.0	250.0			QL=4 ST=1 TYP=1
	410	SVTO	43 NS	0532.0	0433.0U	1108.0	100.0			QL=4 ST=1 TYP=1
	410	SVTO	43 NS	0532.0	0533.0U	1108.0	100.0			QL=4 ST=1 TYP=1
	127	TORN	44 NS	0610.0E		530.0D		1700.0		V=0
	204	IZMI	44 NS	0700.0E		300.0D		1200.0		
	245	SGMR	43 NS	1130.0	1140.0	525.0	100.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1130.0	1131.0	750.0	73.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1130.0	1140.0	750.0	100.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1648.0	2200.0	656.0	330.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	1730.0	0133.0	614.0	130.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2332.0	0657.0	620.0	210.0			QL=4 ST=2 TYP=1
	8800	PALE	8 S	0031.0	0032.0	1.0	55.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0031.0	0032.0	2.0	63.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0045.0	0046.0	5.0	120.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0045.0	0046.0	3.0	130.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0053.0	0055.0	5.0	12.9			
	2804	VORO	1 S	0053.5	0054.8	1.7	13.0			
	8800	LEAR	4 S/F	0114.0	0116.0	3.0	68.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0115.0	0116.0	2.0	46.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0116.0	0117.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0121.0	0122.0	3.0	910.0			QL=4 ST=2 TYP=6
410	LEAR	8 S	0122.0	0124.0	2.0	110.0			QL=4 ST=2 TYP=3	
2840	PEKG	1 S	0140.0	0142.6	5.0	8.5				



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

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Oct 03

OCTOBER 2003

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	2804	VORO	1 S	0142.2	0142.5	1.5	8.4				
	15400	LEAR	8 S	0307.0	0307.0	1.0	54.0			QL=4 ST=2 TYP=3	
	2804	VORO	28 PRE	0447.0	0537.0	80.0	10.5				
	2840	PEKG	3 S	0455.0	0508.9	20.0	42.9				
	2804	VORO	3 S	0456.8	0459.4	3.0	12.0				
	2804	VORO	46 C	0507.8	0509.0	3.8	24.6				
	2695	LEAR	8 S	0508.0	0508.0	1.0	34.0			QL=4 ST=2 TYP=3	
	4995	LEAR	8 S	0508.0	0508.0	2.0	100.0			QL=4 ST=2 TYP=3	
	8800	LEAR	8 S	0508.0	0508.0	1.0	56.0			QL=4 ST=2 TYP=3	
	2840	PEKG	47 GB	0540.0	0730.3	200.0	4517.9				
	15400	LEAR	48 C	0608.0	0729.0	137.0	6900.0			QL=4 ST=2 TYP=8	
	8800	LEAR	48 C	0608.0	0729.0	149.0	6600.0			QL=4 ST=2 TYP=8	
	2804	VORO	47 GB	0608.8	0730.1	100.0	3800.0				
	8800	SVTO	48 C	0609.0	0729.0	137.0	8200.0			QL=4 ST=2 TYP=8	
	15400	SVTO	48 C	0609.0	0729.0	138.0	6500.0			QL=4 ST=2 TYP=8	
	4995	LEAR	48 C	0609.0	0729.0	149.0	4900.0			QL=4 ST=2 TYP=8	
	8800	SVTO	48 C	0609.0	0614.0	1071.0	3700.0			QL=4 ST=1 TYP=8	
	8800	SVTO	48 C	0609.0	0702.0	1071.0	5900.0			QL=4 ST=1 TYP=8	
	15400	SVTO	48 C	0609.0	0614.0	1071.0	5300.0			QL=4 ST=1 TYP=8	
	15400	SVTO	48 C	0609.0	0614.0	1071.0	5700.0			QL=4 ST=1 TYP=8	
	8800	SVTO	49 GB	0609.0	0611.0	1071.0	1800.0			QL=4 ST=1 TYP=6	
	15400	SVTO	49 GB	0609.0	0611.0	1071.0	2000.0			QL=4 ST=1 TYP=6	
	2800	HIRA	47 GB	0610.0			2670.0			0	
	127	TORN	27 RF	0610.0E		340.0D		4400.0			
	1415	LEAR	48 C	0610.0	0735.0	176.0	1700.0			QL=4 ST=2 TYP=8	
	1415	SVTO	48 C	0610.0	0735.0	179.0	1600.0			QL=4 ST=2 TYP=8	
	2695	LEAR	48 C	0610.0	0730.0	184.0	4000.0			QL=4 ST=2 TYP=8	
	2695	SVTO	48 C	0610.0	0729.0	180.0	4400.0			QL=4 ST=2 TYP=8	
	4995	SVTO	48 C	0610.0	0729.0	180.0	7600.0			QL=4 ST=2 TYP=8	
	1415	LEAR	48 C	0610.0	0711.0	1070.0	1000.0			QL=4 ST=1 TYP=8	
	1415	LEAR	48 C	0610.0	0730.0	1070.0	1300.0			QL=4 ST=1 TYP=8	
	1415	LEAR	4 S/F	0610.0	0611.0	1070.0	93.0			QL=4 ST=1 TYP=3	
	1415	LEAR	4 S/F	0610.0	0613.0	1070.0	340.0			QL=4 ST=1 TYP=3	
	1415	SVTO	48 C	0610.0	0711.0	1070.0	920.0			QL=4 ST=1 TYP=8	
	2695	SVTO	48 C	0610.0	0710.0	1070.0	3200.0			QL=4 ST=1 TYP=8	
	4995	SVTO	48 C	0610.0	0614.0	1070.0	2100.0			QL=4 ST=1 TYP=8	
	4995	SVTO	48 C	0610.0	0702.0	1070.0	5200.0			QL=4 ST=1 TYP=8	
	2695	SVTO	49 GB	0610.0	0614.0	1070.0	980.0			QL=4 ST=1 TYP=6	
	4995	SVTO	49 GB	0610.0	0611.0	1070.0	960.0			QL=4 ST=1 TYP=6	
	1415	SVTO	4 S/F	0610.0	0611.0	1070.0	58.0			QL=4 ST=1 TYP=3	
	2695	SVTO	4 S/F	0610.0	0611.0	1070.0	320.0			QL=4 ST=1 TYP=3	
	500	HIRA	47 GB	0613.0			4420.0			MR	
	610	LEAR	48 C	0613.0	0731.0	169.0	650000.0			QL=4 ST=2 TYP=8	
	610	LEAR	48 C	0613.0	0710.0	1067.0	1500.0			QL=4 ST=1 TYP=8	
	610	LEAR	48 C	0613.0	0731.0	1067.0	650000.0			QL=4 ST=1 TYP=8	
610	LEAR	4 S/F	0613.0	0614.0	1067.0	65.0			QL=4 ST=1 TYP=3		
410	SVTO	48 C	0615.0	0727.0	158.0	620000.0			QL=2 ST=2 TYP=8		
245	SVTO	48 C	0615.0	0734.0	160.0	120000.0			QL=2 ST=2 TYP=8		
410	LEAR	48 C	0616.0	0734.0	164.0	60000.0			QL=2 ST=2 TYP=8		
610	SVTO	48 C	0616.0	0731.0	174.0	330000.0			QL=2 ST=2 TYP=8		
245	LEAR	49 GB	0616.0	0734.0	180.0	14000.0			QL=2 ST=2 TYP=6		
610	SVTO	48 C	0616.0	0618.0	1064.0	930.0			QL=4 ST=1 TYP=8		
127	TORN	47 GB	0616.0	0617.3	2.3	8400.0			4200.0		
204	IZMI	46 C	0718.8	0729.7	47.1	46091.0					
3000	IZMI	46 C	0723.5U	0730.5U	85.3D	460.0U					
204	IZMI	45 C	0825.4	0835.3	33.5	28930.0					
204	IZMI	46 C	0951.2	1008.2	63.3	3331.0					
245	SVTO	48 C	0957.0	1010.0	45.0	2200.0			QL=2 ST=2 TYP=8		
410	SVTO	48 C	0957.0	1010.0	40.0	2500.0			QL=2 ST=2 TYP=8		
1415	SVTO	48 C	0957.0	1025.0	46.0	300.0			QL=4 ST=2 TYP=8		
610	SVTO	48 C	0958.0	1017.0	45.0	2900.0			QL=2 ST=2 TYP=8		
3000	IZMI	20 GRF	0958.2	1004.0	33.8	62.0			23.3		
2695	SVTO	20 GRF	0959.0	1004.0	26.0	94.0			QL=4 ST=2 TYP=2		
4995	SVTO	20 GRF	0959.0	1003.0	23.0	77.0			QL=4 ST=2 TYP=2		
8800	SVTO	4 S/F	1003.0	1004.0	6.0	24.0			QL=4 ST=2 TYP=3		
410	SVTO	48 C	1112.0	1115.0	4.0	340.0			QL=2 ST=2 TYP=8		
610	SVTO	8 S	1112.0	1112.0	1.0	220.0			QL=2 ST=2 TYP=3		
245	SVTO	4 S/F	1113.0	1115.0	3.0	150.0			QL=2 ST=2 TYP=3		
1415	SVTO	8 S	1115.0	1115.0	1.0	26.0			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

OCTOBER 2003

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	204	I2MI	42 SER	1118.5	1118.6	13.1	219.0			
	9500	CUBA	21 GRF	1241.0E	1241.0	123.0D	32.0	16.0		
	15400	SVTO	8 S	1335.0	1336.0	1.0	32.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1335.8	1336.3	1.9	17.0	8.0		
	410	SGMR	8 S	1336.0	1336.0	1.0	94.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1336.0	1336.0	1.0	72.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1336.0	1336.0	U	76.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	1336.0	1336.0	U	87.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	1336.0	1336.0	U	33.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1336.0	1336.0	U	23.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1354.7	1355.5	1.8	19.0	9.0		
	8800	SGMR	8 S	1417.0	1417.0	1.0	82.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1417.0	1417.0	1.0	81.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1417.0	1417.0	1.0	56.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1417.0	1417.0	1.0	100.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1417.0	1417.0	3.0	96.0			QL=4 ST=2 TYP=3
	9500	CUBA	4 S/F	1417.0	1417.9	5.0	10.0	5.0		
	245	SVTO	8 S	1518.0	1519.0	1.0	66.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1607.0	1608.0	1.0	450.0			QL=4 ST=2 TYP=3
	9500	CUBA	4 S/F	1614.7	1618.6	11.6	46.0	23.0		
	8800	SGMR	8 S	1618.0	1618.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1706.0	1707.0	2.0	97.0			QL=4 ST=2 TYP=3
	4995	PALE	48 C	1712.0	1731.0	128.0	4200.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	1712.0	1724.0	408.0	1600.0			QL=4 ST=1 TYP=8
	9500	CUBA	49 GB	1714.2	1800.2	57.0	906.0	453.0		
	9500	CUBA	49 GB	1714.2	1722.3U	57.0D	382.0D	191.0		
	8800	PALE	48 C	1715.0	1731.0	113.0	4500.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	1715.0	1731.0	125.0	2500.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	1715.0	1731.0	124.0	3400.0			QL=4 ST=2 TYP=8
	2695	PALE	49 GB	1715.0	1724.0	405.0	740.0			QL=4 ST=1 TYP=6
	2695	SGMR	48 C	1717.0	1731.0	104.0	2000.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1717.0	1730.0	104.0	3500.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1717.0	1730.0	104.0	4100.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1717.0	1731.0	403.0	2000.0			QL=4 ST=1 TYP=8
	4995	SGMR	48 C	1717.0	1730.0	403.0	3500.0			QL=4 ST=1 TYP=8
	4995	SGMR	48 C	1717.0	1730.0	403.0	3500.0			QL=4 ST=1 TYP=8
	2695	SGMR	49 GB	1717.0	1724.0	403.0	770.0			QL=4 ST=1 TYP=6
	4995	SGMR	49 GB	1717.0	1724.0	403.0	1900.0			QL=4 ST=1 TYP=6
	4995	SGMR	4 S/F	1717.0	1722.0	403.0	460.0			QL=4 ST=1 TYP=3
	1415	SGMR	48 C	1718.0	1756.0	62.0	1600.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1718.0	1730.0	103.0	3100.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1718.0	1731.0	402.0	500.0			QL=4 ST=1 TYP=8
	1415	SGMR	4 S/F	1718.0	1722.0	402.0	56.0			QL=4 ST=1 TYP=3
	610	SGMR	48 C	1720.0	1758.0	58.0	480.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	1720.0	1758.0	58.0	480.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	1720.0	1758.0	66.0	590.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	1720.0	1811.0	89.0	430.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	1720.0	1724.0	400.0	290.0			QL=4 ST=1 TYP=8
	410	PALE	4 S/F	1720.0	1723.0	400.0	120.0			QL=4 ST=1 TYP=3
	245	PALE	8 S	1722.0	1722.0	1.0	71.0			QL=4 ST=2 TYP=3
410	SGMR	48 C	1722.0	1811.0	56.0	430.0			QL=4 ST=2 TYP=8	
410	SGMR	48 C	1722.0	1811.0	56.0	430.0			QL=4 ST=2 TYP=8	
1415	PALE	48 C	1722.0	1757.0	85.0	1400.0			QL=4 ST=2 TYP=8	
245	PALE	48 C	1722.0	1724.0	106.0	1200.0			QL=4 ST=2 TYP=8	
1415	PALE	4 S/F	1722.0	1724.0	398.0	130.0			QL=4 ST=1 TYP=3	
245	SGMR	48 C	1724.0	1724.0	54.0	1100.0			QL=4 ST=2 TYP=8	
245	SGMR	48 C	1724.0	1724.0	54.0	1100.0			QL=4 ST=2 TYP=8	
9500	CUBA	30 PBI	1811.2	1811.2	245.8D	352.0	176.0			
410	SGMR	8 S	2023.0	2023.0	U	87.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	2023.0	2023.0	U	72.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2024.0	2024.0	U	100.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	2024.0	2024.0	U	72.0			QL=4 ST=2 TYP=3	
9500	CUBA	1 S	2111.8	2112.2	1.2	28.0	14.0			
15400	PALE	8 S	2112.0	2112.0	U	62.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	2125.0	2125.0	1.0	84.0			QL=4 ST=2 TYP=3	
15400	PALE	8 S	2125.0	2125.0	1.0	130.0			QL=4 ST=2 TYP=3	
9500	CUBA	3 S	2125.0	2125.3	2.2	89.0	44.0			
410	PALE	8 S	2131.0	2132.0	1.0	100.0			QL=4 ST=2 TYP=3	
15400	PALE	49 GB	2136.0	2138.0	4.0	1200.0			QL=4 ST=2 TYP=6	

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

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Oct 03

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean			
26	9500	CUBA	4 S/F	2136.2	2138.9	6.8	429.0	214.0			
	8800	PALE	49 GB	2137.0	2138.0	3.0	1000.0			QL=4 ST=2 TYP=6	
	4995	PALE	4 S/F	2137.0	2138.0	5.0	290.0			QL=4 ST=2 TYP=3	
	2695	PALE	8 S	2138.0	2138.0	U	57.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	2332.0	2332.0	U	110.0			QL=4 ST=2 TYP=3	
27	410	LEAR	43 NS	0435.0	0501.0	151.0	74.0			QL=4 ST=2 TYP=1	
	410	LEAR	43 NS	0435.0	0501.0	1165.0	74.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0533.0	0657.0	383.0	240.0			QL=4 ST=2 TYP=1	
	410	SVTO	43 NS	0533.0	0534.0U	55.0	74.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0533.0	0533.0U	1107.0	130.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0533.0	0657.0U	1107.0	240.0			QL=4 ST=1 TYP=1	
	410	SVTO	43 NS	0533.0	0534.0U	1107.0	74.0			QL=4 ST=1 TYP=1	
	127	TORN	44 NS	0620.0E	0822.3	520.0D	760.0	210.0			V=1
	204	IZMI	44 NS	0700.0E		300.0D		112.0			
	410	SVTO	43 NS	1125.0	1140.0	31.0	74.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1131.0	1946.0	569.0	350.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1131.0	1134.0	749.0	57.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1217.0	1856.0	523.0	160.0				QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1217.0	1218.0	703.0	52.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1217.0	1228.0	703.0	110.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1217.0	1856.0	703.0	160.0				QL=4 ST=1 TYP=1
	610	SGMR	43 NS	1226.0	1341.0	194.0	110.0				QL=4 ST=2 TYP=1
	610	SGMR	43 NS	1226.0	1226.0	694.0	61.0				QL=4 ST=1 TYP=1
	610	SGMR	43 NS	1226.0	1341.0	694.0	110.0				QL=4 ST=1 TYP=1
	410	PALE	43 NS	1649.0	1712.0	431.0	380.0				QL=4 ST=1 TYP=1
	410	PALE	43 NS	1649.0	1727.0	431.0	450.0				QL=4 ST=1 TYP=1
	410	PALE	43 NS	1649.0	1727.0	431.0	750.0				QL=4 ST=1 TYP=1
	610	SGMR	43 NS	1854.0	1855.0	126.0	54.0				QL=4 ST=2 TYP=1
	610	PALE	43 NS	1906.0	1907.0	294.0	53.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2227.0	0436.0	685.0	900.0				QL=4 ST=2 TYP=1
	410	LEAR	43 NS	2301.0	2320.0	99.0	55.0				QL=4 ST=2 TYP=1
	245	PALE	43 NS	2315.0	2320.0	268.0	88.0				QL=4 ST=2 TYP=1
	8800	LEAR	8 S	0016.0	0017.0	1.0	100.0				QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0016.0	0017.0	3.0	240.0				QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0016.0	0017.0	5.0	280.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	0017.0	0017.0	U	130.0				QL=4 ST=2 TYP=3
	15400	LEAR	49 GB	0135.0	0135.0	5.0	1300.0				QL=4 ST=2 TYP=6
	8800	LEAR	4 S/F	0135.0	0135.0	6.0	170.0				QL=4 ST=2 TYP=3
	15400	PALE	49 GB	0135.0	0136.0	5.0	1300.0				QL=4 ST=2 TYP=6
	8800	PALE	8 S	0135.0	0136.0	2.0	340.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0249.0	0249.0	U	180.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0249.0	0249.0	1.0	230.0				QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0608.0	0608.0	U	56.0				QL=4 ST=2 TYP=3
	8800	LEAR	49 GB	0613.0	0614.0	11.0	570.0				QL=4 ST=2 TYP=6
	15400	LEAR	49 GB	0614.0	0614.0	4.0	1500.0				QL=4 ST=2 TYP=6
	15400	SVTO	49 GB	0614.0	0614.0	4.0	1300.0				QL=4 ST=2 TYP=6
	8800	SVTO	4 S/F	0614.0	0614.0	3.0	490.0				QL=4 ST=2 TYP=3
	500	HIRA	8 S	0621.0	0621.0	1.0	50.0				0
	2840	PEKG	47 GB	0741.0	0821.5	81.0	1058.8				
	8800	LEAR	48 C	0756.0	0821.0	54.0	710.0				QL=4 ST=2 TYP=8
	3000	IZMI	46 C	0756.1	0821.5	63.9	861.0				
	15400	LEAR	48 C	0757.0	0821.0	54.0	590.0				QL=4 ST=2 TYP=8
33	UPIC	45 C	0758.0	0759.0	1.5						
245	LEAR	48 C	0758.0	0758.0	12.0	1000.0				QL=4 ST=2 TYP=8	
410	LEAR	48 C	0758.0	0758.0	20.0	160.0				QL=4 ST=2 TYP=8	
245	LEAR	48 C	0758.0	0758.0	36.0	1000.0				QL=2 ST=2 TYP=8	
245	SVTO	48 C	0758.0	0758.0	36.0	930.0				QL=2 ST=2 TYP=8	
410	LEAR	48 C	0758.0	0823.0	44.0	330.0				QL=4 ST=2 TYP=8	
4995	LEAR	48 C	0758.0	0821.0	54.0	870.0				QL=4 ST=2 TYP=8	
410	SVTO	48 C	0758.0	0823.0	56.0	590.0				QL=4 ST=2 TYP=8	
8800	SVTO	48 C	0758.0	0821.0	54.0	720.0				QL=4 ST=2 TYP=8	
4995	SVTO	48 C	0758.0	0821.0	67.0	1100.0				QL=4 ST=2 TYP=8	
4995	SVTO	48 C	0758.0	0820.0	962.0	400.0				QL=4 ST=1 TYP=8	
204	IZMI	41 F	0758.6	0758.8	0.5	1226.0					
15400	SVTO	48 C	0800.0	0821.0	46.0	380.0				QL=4 ST=2 TYP=8	
610	SVTO	48 C	0800.0	0830.0	53.0	300.0				QL=2 ST=2 TYP=8	
2695	SVTO	48 C	0800.0	0821.0	52.0	1100.0				QL=4 ST=2 TYP=8	
2695	LEAR	48 C	0800.0	0821.0	60.0	1000.0				QL=4 ST=2 TYP=8	

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

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
27	610	SVTO	48 C	0800.0	0806.0	960.0	290.0			QL=4 ST=1 TYP=8	
	2695	SVTO	48 C	0800.0	0820.0	960.0	450.0			QL=4 ST=1 TYP=8	
	204	IZMI	25 R	0802.5		32.5	150.0				
	610	LEAR	48 C	0805.0	0806.0	43.0	250.0			QL=4 ST=2 TYP=8	
	1415	LEAR	48 C	0805.0	0809.0	49.0	580.0			QL=4 ST=2 TYP=8	
	1415	SVTO	48 C	0805.0	0809.0	48.0	520.0			QL=4 ST=2 TYP=8	
	1415	SVTO	48 C	0805.0	0809.0	955.0	520.0			QL=4 ST=1 TYP=8	
	4995	LEAR	49 GB	0905.0	0923.0	32.0	680.0			QL=4 ST=2 TYP=6	
	8800	LEAR	49 GB	0905.0	0923.0	33.0	2800.0			QL=4 ST=2 TYP=6	
	15400	LEAR	49 GB	0922.0	0923.0	9.0	4600.0			QL=4 ST=2 TYP=6	
	4995	SVTO	49 GB	0922.0	0923.0	5.0	750.0			QL=4 ST=2 TYP=6	
	8800	SVTO	49 GB	0922.0	0923.0	6.0	2600.0			QL=4 ST=2 TYP=6	
	15400	SVTO	49 GB	0922.0	0923.0	5.0	3900.0			QL=4 ST=2 TYP=6	
	3000	IZMI	20 GRF	0922.9	0923.6	3.3	66.0	30.8			QL=4 ST=2 TYP=6
	2695	LEAR	8 S	0923.0	0923.0	1.0	65.0				QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1133.0	1135.0	5.0	330.0				QL=2 ST=2 TYP=3
	245	SVTO	8 S	1134.0	1135.0	1.0	290.0				QL=4 ST=2 TYP=3
	204	IZMI	41 F	1134.5	1135.1	0.8	288.0				
	33	UPIC	46 C	1207.0	1209.0	2.5					
	4995	SVTO	48 C	1229.0	1230.0	7.0	630.0				QL=4 ST=2 TYP=8
	2695	SVTO	8 S	1229.0	1229.0	1.0	59.0				QL=4 ST=2 TYP=3
	4995	SGMR	48 C	1229.0	1230.0	26.0	560.0				QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1229.0	1229.0	26.0	1200.0				QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1229.0	1229.0	26.0	1300.0				QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1229.0	1229.0	23.0	1400.0				QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1229.0	1229.0	30.0	1300.0				QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1229.0	1230.0	691.0	560.0				QL=4 ST=1 TYP=8
	8800	SGMR	48 C	1229.0	1229.0	691.0	1200.0				QL=4 ST=1 TYP=8
	15400	SGMR	49 GB	1229.0	1229.0	691.0	1300.0				QL=4 ST=1 TYP=6
	33	UPIC	46 C	1230.5	1235.0	7.5					
	245	SGMR	48 C	1231.0	1248.0	24.0	420.0				QL=4 ST=2 TYP=8
	2695	SGMR	4 S/F	1231.0	1231.0	24.0	58.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1231.0	1231.0	689.0	58.0				QL=4 ST=1 TYP=3
	15400	SGMR	8 S	1402.0	1403.0	1.0	56.0				QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1402.0	1403.0	1.0	66.0				QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1402.2	1403.2	2.8	35.0	17.0			
	9500	CUBA	1 S	1414.8	1415.4	1.2	26.0	13.0			
	9500	CUBA	22 GRF	1528.0	1603.0	73.0	45.0	22.0			
	2800	PENT	29 PBI	1546.0	1559.0	46.0U	270.0				
	9500	CUBA	1 S	1710.1	1710.5	0.7	17.0	8.0			
	2800	PENT	20 GRF	1818.0	1845.0	69.0	110.0				
	245	SGMR	8 S	1906.0	1907.0	2.0	190.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1906.0	1906.0	U	180.0				QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1951.0	1954.0	8.0	2100.0				QL=4 ST=2 TYP=6
	610	PALE	49 GB	1951.0	1954.0	249.0	2200.0				QL=4 ST=1 TYP=6
	245	SGMR	8 S	2004.0	2004.0	U	490.0				QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	2122.0	2202.0	70.0U	90.0				
	2800	HIRA	1 S	2306.0	2307.0	3.0	25.0				0
	245	LEAR	48 C	2322.0	2327.0	14.0	400.0				QL=4 ST=2 TYP=8
	2840	PEKG	5 S	2345.0	2348.4	6.0	12.6				
8800	LEAR	49 GB	2347.0	2348.0	4.0	850.0				QL=4 ST=2 TYP=6	
15400	LEAR	49 GB	2347.0	2348.0	2.0	700.0				QL=4 ST=2 TYP=6	
4995	LEAR	8 S	2347.0	2348.0	2.0	190.0				QL=4 ST=2 TYP=3	
8800	PALE	49 GB	2348.0	2348.0	3.0	920.0				QL=4 ST=2 TYP=6	
15400	PALE	49 GB	2348.0	2348.0	3.0	700.0				QL=4 ST=2 TYP=6	
4995	PALE	8 S	2348.0	2348.0	2.0	250.0				QL=4 ST=2 TYP=3	
2840	PEKG	5 S	2354.0	2356.8	7.0	18.2					
610	LEAR	8 S	2355.0	2356.0	2.0	320.0				QL=4 ST=2 TYP=3	
500	HIRA	8 S	2356.0	2356.0	1.0	40.0				WR	
2800	HIRA	1 S	2356.0	2357.0	1.0	25.0				0	
245	LEAR	8 S	2356.0	2356.0	1.0	250.0				QL=4 ST=2 TYP=3	
8800	LEAR	8 S	2356.0	2356.0	U	53.0				QL=4 ST=2 TYP=3	
8800	PALE	8 S	2356.0	2356.0	1.0	68.0				QL=4 ST=2 TYP=3	
15400	PALE	8 S	2356.0	2356.0	2.0	75.0				QL=4 ST=2 TYP=3	
610	PALE	8 S	2357.0	2357.0	U	220.0				QL=4 ST=2 TYP=3	
28	410	LEAR	43 NS	0331.0	0439.0	381.0	210.0			QL=4 ST=2 TYP=1	
	610	LEAR	43 NS	0525.0	0526.0	66.0	92.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0534.0	1526.0	597.0	5800.0			QL=4 ST=2 TYP=1	

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

35  
Oct 03

OCTOBER 2003

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	410	SVTO	43 NS	0534.0	1508.0	597.0	3600.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0534.0	0537.0U	1106.0	480.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0534.0	1508.0U	1106.0	3500.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0534.0	1526.0U	1106.0	5800.0			QL=4 ST=1 TYP=1	
	410	SVTO	43 NS	0534.0	0536.0U	1106.0	190.0			QL=4 ST=1 TYP=1	
	410	SVTO	43 NS	0534.0	1508.0U	1106.0	3600.0			QL=4 ST=1 TYP=1	
	127	TORN	44 NS	0620.0E		520.0D		420.0			V=1,DISTURBED
	204	IZMI	44 NS	0700.0E		324.0D		340.0			
	33	UPIC	43 NS	1005.0		249.0					
	610	SVTO	43 NS	1508.0	1509.0	23.0	830.0				QL=4 ST=2 TYP=1
	610	SGMR	43 NS	1512.0	1544.0	309.0	490.0				QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1512.0	1518.0	325.0	2800.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1512.0	1712.0	348.0	6900.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1512.0	1517.0U	528.0	3900.0				QL=4 ST=3 TYP=1
	410	SGMR	43 NS	1512.0	1518.0U	528.0	2800.0				QL=4 ST=3 TYP=1
	245	PALE	43 NS	1649.0	1907.0	654.0	360.0				QL=4 ST=2 TYP=1
	410	PALE	43 NS	1649.0	1727.0	654.0	750.0				QL=4 ST=2 TYP=1
	610	PALE	43 NS	1745.0	1746.0	194.0	210.0				QL=4 ST=2 TYP=1
	15400	PALE	4 S/F	0002.0	0004.0	4.0	95.0				QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0004.0	0006.0	4.0	69.0				QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0014.0	0015.0	1.0	400.0				QL=4 ST=2 TYP=6
	2840	PEKG	1 S	0048.0	0051.5	7.0	8.5				
	500	HIRA	8 S	0051.0	0051.0	1.0	105.0				MR
	610	LEAR	8 S	0051.0	0051.0		66.0			U	QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0056.0	0058.3	19.0	61.8				
	2804	VORO	4 S/F	0056.8	0058.5	4.0	45.0				
	2800	HIRA	3 S	0058.0	0059.0	2.0	55.0				0
	500	HIRA	8 S	0058.0	0059.0	2.0	115.0				MR
	410	LEAR	8 S	0058.0	0058.0		61.0			U	QL=4 ST=2 TYP=3
	610	LEAR	8 S	0058.0	0059.0	1.0	280.0				QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0058.0	0058.0	1.0	190.0				QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0058.0	0058.0		73.0			U	QL=4 ST=2 TYP=3
	610	PALE	8 S	0058.0	0059.0	1.0	170.0				QL=4 ST=2 TYP=3
	2695	PALE	8 S	0058.0	0058.0	1.0	60.0				QL=4 ST=2 TYP=3
	4995	PALE	8 S	0058.0	0058.0	1.0	200.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	0058.0	0058.0	1.0	240.0				QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0058.0	0058.0	4.0	100.0				QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0123.0	0136.6	31.0	39.8				
	15400	PALE	4 S/F	0126.0	0132.0	19.0	330.0				QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0131.0	0132.0	6.0	300.0				QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0132.0	0132.0	4.0	140.0				QL=4 ST=2 TYP=3
	8800	PALE	48 C	0132.0	0132.0	5.0	150.0				QL=4 ST=2 TYP=8
	245	LEAR	8 S	0135.0	0135.0		360.0			U	QL=4 ST=2 TYP=3
	2800	HIRA	1 S	0136.0	0137.0	2.0	30.0				0
	4995	PALE	8 S	0137.0	0137.0		56.0			U	QL=4 ST=2 TYP=3
	245	LEAR	8 S	0144.0	0144.0		210.0			U	QL=4 ST=2 TYP=3
	245	LEAR	8 S	0149.0	0149.0		280.0			U	QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0153.0	0154.0	1.0	540.0				QL=4 ST=2 TYP=6
	15400	PALE	4 S/F	0201.0	0204.0	7.0	100.0				QL=4 ST=2 TYP=3
	245	LEAR	48 C	0203.0	0204.0	2.0	440.0				QL=4 ST=2 TYP=8
8800	LEAR	8 S	0203.0	0203.0	2.0	73.0				QL=4 ST=2 TYP=3	
15400	LEAR	8 S	0203.0	0203.0	1.0	79.0				QL=4 ST=2 TYP=3	
500	HIRA	8 S	0227.0	0227.0	1.0	25.0				WL	
245	LEAR	48 C	0248.0	0258.0	10.0	120.0				QL=4 ST=2 TYP=8	
410	LEAR	4 S/F	0249.0	0258.0	10.0	99.0				QL=4 ST=2 TYP=3	
245	LEAR	49 GB	0331.0	0331.0	1.0	370.0				QL=4 ST=2 TYP=6	
2840	PEKG	5 S	0333.0	0336.8	7.0	29.5					
2804	VORO	40 F	0335.1	0335.6	1.2	28.9					
2800	HIRA	8 S	0337.0	0337.0	1.0	35.0				WL	
2804	VORO	46 C	0432.2	0436.7	6.8	32.3					
8800	LEAR	4 S/F	0456.0	0510.0	17.0	100.0				QL=4 ST=2 TYP=3	
4995	LEAR	4 S/F	0457.0	0510.0	17.0	180.0				QL=4 ST=2 TYP=3	
2840	PEKG	3 S	0505.0	0510.3	13.0	70.5					
610	LEAR	4 S/F	0509.0	0518.0	9.0	59.0				QL=4 ST=2 TYP=3	
2804	VORO	4 S/F	0509.0	0510.2	3.5	52.4					
2800	HIRA	1 S	0510.0	0510.0	3.0	70.0				0	
1415	LEAR	8 S	0510.0	0510.0		55.0			U	QL=4 ST=2 TYP=3	
2695	LEAR	8 S	0510.0	0510.0		62.0			U	QL=4 ST=2 TYP=3	
2840	PEKG	1 S	0740.0	0742.3	7.0	5.4					

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

OCTOBER 2003

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	2840	PEKG	45 C	0750.0	0755.9	12.0	17.6			
	4995	LEAR	48 C	0816.0	0826.0	15.0	96.0			QL=4 ST=2 TYP=8
	8800	LEAR	4 S/F	0816.0	0817.0	15.0	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	48 C	0816.0	0817.0	25.0	200.0			QL=4 ST=2 TYP=8
	15400	LEAR	8 S	0817.0	0817.0		77.0	U		QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0817.0	0817.0		76.0	U		QL=4 ST=2 TYP=3
	4995	SVTO	48 C	0817.0	0826.0	23.0	110.0			QL=4 ST=2 TYP=8
	2840	PEKG	3 S	0824.0	0826.4	12.0	14.7			
	3000	IZMI	40 F	0826.3	0854.2	61.9	38.0			
	8800	LEAR	48 C	0846.0	0849.0	20.0	120.0			QL=4 ST=2 TYP=8
	4995	SVTO	4 S/F	0846.0	0854.0	23.0	100.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0846.0	0849.0	25.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0848.0	0849.0	6.0	67.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0848.0	0854.0	10.0	72.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0849.0	0849.0		54.0	U		QL=4 ST=2 TYP=3
	33	UPIC	46 C	0852.0	0854.5	5.0				
	204	IZMI	46 C	0932.6	1155.6	171.4D	39208.0			
	245	SVTO	49 GB	0953.0	0954.0	3.0	2200.0			QL=2 ST=2 TYP=6
	8800	SVTO	49 GB	0953.0	0954.0	3.0	650.0			QL=4 ST=2 TYP=6
	15400	SVTO	49 GB	0953.0	0954.0	3.0	620.0			QL=4 ST=2 TYP=6
	4995	SVTO	4 S/F	0953.0	0954.0	4.0	250.0			QL=4 ST=2 TYP=3
	3000	IZMI	41 F	0953.8	0954.3	1.8	87.0	29.5		
	610	SVTO	8 S	0954.0	0954.0		190.0	U		QL=2 ST=2 TYP=3
	2695	SVTO	8 S	0954.0	0954.0		84.0	U		QL=4 ST=2 TYP=3
	410	SVTO	8 S	0956.0	0956.0		260.0	U		QL=2 ST=2 TYP=3
	8800	SVTO	49 GB	1003.0	1107.0	293.0	70000.0			QL=2 ST=2 TYP=6
	4995	SVTO	49 GB	1004.0	1112.0	284.0	47000.0			QL=2 ST=2 TYP=6
	15400	SVTO	49 GB	1004.0	1104.0	292.0	57000.0			QL=2 ST=2 TYP=6
	410	SVTO	48 C	1005.0	1104.0	303.0	37000.0			QL=2 ST=2 TYP=8
	3000	IZMI	45 C	1005.7	1026.2	51.0	2066.0	553.5		
	2695	SVTO	48 C	1014.0	1114.0	285.0	13000.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	1014.0	1117.0	294.0	31000.0			QL=2 ST=2 TYP=8
	245	SVTO	48 C	1015.0	1102.0	293.0	490000.0			QL=2 ST=2 TYP=8
	1415	SVTO	48 C	1016.0	1201.0	285.0	22000.0			QL=4 ST=2 TYP=8
	3000	IZMI	46 C	1058.5	1114.0U	36.3	3900.0U			
	245	SGMR	48 C	1131.0	1156.0	221.0	22000.0			QL=2 ST=2 TYP=8
	410	SGMR	48 C	1131.0	1153.0	221.0	5100.0			QL=2 ST=2 TYP=8
	610	SGMR	48 C	1131.0	1153.0	221.0	3400.0			QL=2 ST=2 TYP=8
	1415	SGMR	48 C	1131.0	1201.0	221.0	25000.0			QL=2 ST=2 TYP=8
	2695	SGMR	48 C	1131.0	1159.0	221.0	1500.0			QL=2 ST=2 TYP=8
	4995	SGMR	48 C	1131.0	1159.0	221.0	830.0			QL=2 ST=2 TYP=8
	245	SGMR	48 C	1131.0	1137.0	749.0	6900.0			QL=4 ST=1 TYP=8
	245	SGMR	48 C	1131.0	1147.0	749.0	10000.0			QL=4 ST=1 TYP=8
	245	SGMR	48 C	1131.0	1156.0	749.0	22000.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	1131.0	1131.0	749.0	1700.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	1131.0	1146.0	749.0	4300.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	1131.0	1153.0	749.0	5100.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	1131.0	1134.0	749.0	300.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	1131.0	1138.0	749.0	440.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	1131.0	1147.0	749.0	2500.0			QL=4 ST=1 TYP=8
610	SGMR	48 C	1131.0	1153.0	749.0	3400.0			QL=4 ST=1 TYP=8	
1415	SGMR	48 C	1131.0	1133.0	749.0	440.0			QL=4 ST=1 TYP=8	
1415	SGMR	48 C	1131.0	1146.0	749.0	13000.0			QL=4 ST=1 TYP=8	
1415	SGMR	48 C	1131.0	1201.0	749.0	25000.0			QL=4 ST=1 TYP=8	
2695	SGMR	48 C	1131.0	1145.0	749.0	1100.0			QL=4 ST=1 TYP=8	
2695	SGMR	48 C	1131.0	1159.0	749.0	1500.0			QL=4 ST=1 TYP=8	
4995	SGMR	48 C	1131.0	1138.0	749.0	190.0			QL=4 ST=1 TYP=8	
4995	SGMR	48 C	1131.0	1145.0	749.0	660.0			QL=4 ST=1 TYP=8	
4995	SGMR	48 C	1131.0	1159.0	749.0	830.0			QL=4 ST=1 TYP=8	
245	SGMR	49 GB	1131.0	1133.0	749.0	6400.0			QL=4 ST=1 TYP=6	
1415	SGMR	4 S/F	1131.0	1133.0	749.0	440.0			QL=4 ST=1 TYP=3	
2695	SGMR	4 S/F	1131.0	1133.0	749.0	260.0			QL=4 ST=1 TYP=3	
2695	SGMR	4 S/F	1131.0	1138.0	749.0	320.0			QL=4 ST=1 TYP=3	
4995	SGMR	4 S/F	1131.0	1131.0	749.0	95.0			QL=4 ST=1 TYP=3	
3000	IZMI	45 C	1137.0	1159.1	47.0	1508.0	332.0			
8800	SGMR	48 C	1138.0	1203.0	214.0	910.0			QL=2 ST=2 TYP=8	
8800	SGMR	48 C	1138.0	1144.0	742.0	270.0			QL=4 ST=1 TYP=8	
8800	SGMR	48 C	1138.0	1159.0	742.0	310.0			QL=4 ST=1 TYP=8	
8800	SGMR	48 C	1138.0	1203.0	742.0	910.0			QL=4 ST=1 TYP=8	

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

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Oct 03

OCTOBER 2003

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	8800	SGMR	4 S/F	1138.0	1138.0	742.0	85.0			QL=4 ST=1 TYP=3	
	15400	SGMR	48 C	1149.0	1203.0	203.0	1100.0			QL=4 ST=2 TYP=8	
	15400	SGMR	48 C	1149.0	1203.0	731.0	1100.0			QL=4 ST=1 TYP=8	
	15400	SGMR	49 GB	1149.0	1159.0	731.0	950.0			QL=4 ST=1 TYP=6	
	9500	CUBA	21 GRF	1239.0E	1239.0	97.0D	222.0	111.0			
	9500	CUBA	21 GRF	1435.0	1442.0	14.0	41.0	20.0			
	9500	CUBA	1 S	1438.2	1438.5	0.8	23.0	11.0			
	9500	CUBA	1 S	1508.0	1508.6	1.0	33.0	16.0			
	245	SGMR	49 GB	1526.0	1526.0	1.0	7800.0				QL=4 ST=2 TYP=6
	2800	PENT	8 S	1528.0	1530.0	6.0	1780.0				
	245	SVTO	49 GB	1530.0E	1531.0	1.0D	5200.0				QL=2 ST=2 TYP=6
	610	SVTO	49 GB	1530.0E	1531.0	1.0D	1600.0				QL=2 ST=2 TYP=6
	1415	SVTO	49 GB	1530.0E	1531.0	1.0D	2500.0				QL=4 ST=2 TYP=6
	2695	SVTO	8 S	1530.0E	1531.0	1.0D	140.0				QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1530.0E	1531.0	1.0D	100.0				QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1530.0E	1531.0	1.0D	98.0				QL=4 ST=2 TYP=3
	410	SGMR	48 C	1530.0	1530.0	84.0	6900.0				QL=4 ST=2 TYP=8
	610	SGMR	48 C	1530.0	1613.0	84.0	1900.0				QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1530.0	1609.0	84.0	440.0				QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1530.0	1614.0	84.0	250.0				QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1530.0	1530.0	84.0	290.0				QL=4 ST=2 TYP=8
	15400	SGMR	4 S/F	1530.0	1530.0	84.0	270.0				QL=4 ST=2 TYP=3
	9500	CUBA	3 S	1530.0	1530.8	2.2	125.0	62.0			
	245	SGMR	48 C	1531.0	1628.0	83.0	11000.0				QL=4 ST=2 TYP=8
	9500	CUBA	21 GRF	1551.0	1600.0	46.0	39.0	19.0			
	9500	CUBA	1 S	1614.2	1615.1	2.6	29.0	14.0			
	9500	CUBA	1 S	1618.0	1619.2	3.2	51.0	25.0			
	9500	CUBA	1 S	1732.8	1733.3	1.2	11.0	5.0			
	9500	CUBA	1 S	1823.0	1823.6	0.7	17.0	8.0			
	15400	PALE	4 S/F	1948.0	1950.0	3.0	92.0				QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	1948.0	1950.0	3.0	92.0				QL=4 ST=3 TYP=3
	8800	PALE	8 S	1950.0	1950.0	1.0	79.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	1950.0	1950.0	1.0	79.0				QL=4 ST=3 TYP=3
	2800	PENT	1 S	2109.0	2115.0	11.0	220.0				
	410	PALE	48 C	2137.0	2139.0	7.0	130.0				QL=4 ST=2 TYP=8
	8800	PALE	8 S	2302.0	2302.0	2.0	63.0				QL=4 ST=2 TYP=3
	15400	PALE	8 S	2302.0	2303.0	2.0	65.0				QL=4 ST=2 TYP=3
	500	HIRA	8 S	2305.0	2305.0	1.0	380.0				WL
	410	LEAR	49 GB	2312.0	2312.0	U	710.0				QL=2 ST=2 TYP=6
	1415	LEAR	49 GB	2312.0	2312.0	3.0	1500.0				QL=4 ST=2 TYP=6
410	PALE	49 GB	2312.0	2313.0	1.0	540.0				QL=4 ST=2 TYP=6	
1415	PALE	49 GB	2313.0	2313.0	U	2500.0				QL=4 ST=2 TYP=6	
500	HIRA	8 S	2355.0	2356.0	1.0	100.0				WL	
29	1415	PALE	43 NS	0029.0	0136.0	81.0	560.0			QL=4 ST=2 TYP=1	
	610	PALE	43 NS	0029.0	0113.0	164.0	190.0			QL=4 ST=2 TYP=1	
	610	LEAR	43 NS	0122.0	0124.0	469.0	310.0			QL=4 ST=2 TYP=1	
	610	SVTO	43 NS	0535.0	0624.0	487.0	1100.0			QL=2 ST=2 TYP=1	
	245	SVTO	43 NS	0535.0	0538.0	595.0	2400.0			QL=4 ST=2 TYP=1	
	410	SVTO	43 NS	0535.0	0638.0	595.0	2500.0			QL=4 ST=2 TYP=1	
	610	SVTO	43 NS	0535.0	0624.0U	487.0	1100.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0535.0	0538.0U	1105.0	2400.0			QL=4 ST=1 TYP=1	
	410	SVTO	43 NS	0535.0	0638.0U	1105.0	2500.0			QL=4 ST=1 TYP=1	
	33	UPIC	43 NS	0609.0	0707.5	432.0					
	127	TORN	44 NS	0620.0E		520.0D		3000.0			V=0
	204	IZMI	44 NS	0700.0E		300.0D		585.0			
	245	SGMR	43 NS	1134.0	1134.0	586.0	1000.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1134.0	1139.0	746.0	460.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1134.0	1234.0	746.0	1000.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1140.0	1748.0	580.0	360.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1140.0	1149.0	740.0	72.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1140.0	1210.0	740.0	86.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1140.0	1234.0	740.0	100.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1140.0	1748.0	740.0	360.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1650.0	1719.0	430.0	5100.0				QL=4 ST=1 TYP=1
	410	PALE	43 NS	1650.0	1704.0	430.0	99.0				QL=4 ST=1 TYP=1
	410	PALE	43 NS	1650.0	1719.0	430.0	2200.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1650.0	1719.0	652.0	5100.0				QL=4 ST=2 TYP=1
410	PALE	43 NS	1650.0	1719.0	652.0	2200.0				QL=4 ST=2 TYP=1	

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

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean			
29	245	LEAR	43 NS	2240.0	0755.0	673.0	1200.0			QL=4 ST=2 TYP=1	
	410	LEAR	43 NS	2240.0	0757.0	673.0	330.0			QL=4 ST=2 TYP=1	
	610	LEAR	44 NS	2253.0E	0216.0U	288.0D	310.0			QL=2 ST=2 TYP=1	
	245	LEAR	44 NS	2328.0E	2328.0U	625.0D	2500.0			QL=4 ST=2 TYP=1	
	410	LEAR	44 NS	2346.0E	2346.0U	607.0D	1900.0			QL=2 ST=3 TYP=1	
	2840	PEKG	3 S	0021.0	0047.1	46.0	79.2				
	610	LEAR	8 S	0025.0	0025.0	1.0	210.0				QL=4 ST=2 TYP=3
	610	LEAR	48 C	0025.0	0037.0	50.0	1200.0				QL=4 ST=2 TYP=8
	610	PALE	8 S	0026.0	0026.0		92.0			U	QL=4 ST=2 TYP=3
	15400	PALE	48 C	0026.0	0028.0	23.0	120.0				QL=4 ST=2 TYP=8
	2800	HIRA	23 GRF	0026.0	0042.0	32.0	80.0				0
	500	HIRA	7 C	0026.0	0041.0	58.0	445.0				ML
	245	LEAR	48 C	0026.0	0026.0	51.0	5400.0				QL=2 ST=2 TYP=8
	410	LEAR	48 C	0026.0	0027.0	51.0	3900.0				QL=2 ST=2 TYP=8
	610	PALE	48 C	0026.0	0124.0	58.0	850.0				QL=4 ST=2 TYP=8
	8800	PALE	48 C	0026.0	0029.0	51.0	250.0				QL=4 ST=2 TYP=8
	2804	VORO	46 C	0026.0	0048.0	75.0	87.1				
	410	LEAR	48 C	0026.0	0027.0	1414.0	3900.0				QL=2 ST=1 TYP=8
	245	LEAR	49 GB	0026.0	0026.0	1414.0	5400.0				QL=2 ST=1 TYP=6
	410	LEAR	49 GB	0026.0	0026.0	1414.0	520.0				QL=2 ST=1 TYP=6
	8800	PALE	48 C	0026.0	0029.0	1414.0	250.0				QL=4 ST=1 TYP=8
	8800	PALE	4 S/F	0026.0	0027.0	1414.0	150.0				QL=4 ST=1 TYP=3
	15400	PALE	4 S/F	0026.0	0027.0	1414.0	95.0				QL=4 ST=1 TYP=3
	15400	LEAR	4 S/F	0027.0	0027.0	12.0	100.0				QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0027.0	0029.0	50.0	170.0				QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0027.0	0029.0	1413.0	170.0				QL=4 ST=1 TYP=3
	15400	LEAR	4 S/F	0027.0	0027.0	1413.0	100.0				QL=4 ST=1 TYP=3
	1415	LEAR	48 C	0028.0	0116.0	50.0	310.0				QL=4 ST=2 TYP=8
	1415	LEAR	4 S/F	0028.0	0029.0	1412.0	210.0				QL=4 ST=1 TYP=3
	4995	PALE	48 C	0029.0	0048.0	47.0	92.0				QL=4 ST=2 TYP=8
	1415	PALE	48 C	0029.0	0030.0	50.0	310.0				QL=4 ST=2 TYP=8
	4995	PALE	4 S/F	0029.0	0048.0	1411.0	92.0				QL=4 ST=1 TYP=3
	2695	LEAR	4 S/F	0041.0	0042.0	6.0	63.0				QL=4 ST=2 TYP=3
	2695	PALE	48 C	0041.0	0042.0	9.0	82.0				QL=4 ST=2 TYP=8
	2695	PALE	4 S/F	0041.0	0042.0	1399.0	82.0				QL=4 ST=1 TYP=3
	4995	LEAR	4 S/F	0101.0	0116.0	16.0	53.0				QL=4 ST=2 TYP=3
	2840	PEKG	20 GRF	0109.0	0118.1	33.0	27.9				
	610	LEAR	48 C	0122.0	0123.0	53.0	1100.0				QL=2 ST=2 TYP=8
	1415	LEAR	48 C	0126.0	0133.0	23.0	3200.0				QL=4 ST=2 TYP=8
	410	LEAR	48 C	0127.0	0320.0	163.0	2600.0				QL=2 ST=2 TYP=8
	4995	LEAR	4 S/F	0132.0	0147.0	18.0	120.0				QL=4 ST=2 TYP=3
	245	LEAR	48 C	0137.0	0337.0	155.0	5800.0				QL=2 ST=2 TYP=8
	2804	VORO	30 PBI	0141.2	0148.1	74.0	17.4				
	2840	PEKG	3 S	0144.0	0148.1	12.0	27.1				
	4995	PALE	48 C	0145.0	0147.0	4.0	110.0				QL=4 ST=2 TYP=8
	8800	LEAR	8 S	0146.0	0147.0	2.0	78.0				QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0156.3	0158.8	4.4	7.2				
	2804	VORO	4 S/F	0311.5	0313.1	5.0	25.6				
	2840	PEKG	47 GB	0407.0	0456.4	133.0	523.1				
	2804	VORO	47 GB	0425.0	0456.2	70.0	701.0				
245	LEAR	48 C	0432.0	0450.0	21.0	6600.0				QL=4 ST=2 TYP=8	
245	LEAR	48 C	0432.0	0450.0	73.0	4600.0				QL=2 ST=2 TYP=8	
410	LEAR	48 C	0433.0	0440.0	20.0	2700.0				QL=4 ST=2 TYP=8	
410	LEAR	48 C	0433.0	0459.0	31.0	3200.0				QL=2 ST=2 TYP=8	
500	HIRA	47 GB	0433.0	0502.0	50.0	925.0				0	
1415	LEAR	48 C	0433.0	0451.0	80.0	1000.0				QL=4 ST=2 TYP=8	
2800	HIRA	47 GB	0438.0	0456.0	45.0	645.0				0	
610	LEAR	48 C	0439.0	0441.0	14.0	1400.0				QL=4 ST=2 TYP=8	
610	LEAR	48 C	0439.0	0441.0	22.0	1200.0				QL=2 ST=2 TYP=8	
2695	LEAR	48 C	0440.0	0456.0	39.0	610.0				QL=4 ST=2 TYP=8	
15400	LEAR	48 C	0446.0	0536.0	51.0	130.0				QL=4 ST=2 TYP=8	
4995	LEAR	48 C	0450.0	0500.0	60.0	430.0				QL=4 ST=2 TYP=8	
8800	LEAR	48 C	0453.0	0500.0	60.0	330.0				QL=4 ST=2 TYP=8	
1415	LEAR	48 C	0540.0E	0609.0U	29.0D	140.0				QL=4 ST=2 TYP=8	
1415	SVTO	8 S	0544.0	0545.0	2.0	320.0				QL=2 ST=2 TYP=3	
410	SVTO	48 C	0558.0	0601.0	11.0	1000.0				QL=4 ST=2 TYP=8	
1415	SVTO	48 C	0558.0	0600.0	11.0	190.0				QL=4 ST=2 TYP=8	
610	SVTO	48 C	0600.0	0600.0	9.0	410.0				QL=4 ST=2 TYP=8	
610	LEAR	49 GB	0624.0	0624.0		1000.0				QL=2 ST=2 TYP=6	



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

39  
Oct 03

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
29	33	UPIC	46 C	0636.5	0641.0	10.5				
	15400	LEAR	8 S	0721.0	0723.0	2.0	70.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0820.0	0820.0	U	72.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0820.0	0821.0	8.0	75.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0929.0	0931.0	3.0	93.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0931.0	0931.0	U	64.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1210.0	1210.0	U	86.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1210.0	1210.0	U	86.0			QL=4 ST=3 TYP=3
	610	SVTO	49 GB	1226.0	1226.0	U	1100.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	1234.0	1234.0	U	1000.0			QL=2 ST=2 TYP=6
	610	SVTO	48 C	1236.0	1239.0	4.0	780.0			QL=2 ST=2 TYP=8
	4995	SVTO	8 S	1253.0	1253.0	U	63.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1402.0	1402.0	U	230.0			QL=2 ST=2 TYP=3
	8800	SGMR	8 S	1421.0	1421.0	U	50.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1421.0	1421.0	1.0	50.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1421.0	1421.0	U	69.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1421.0	1421.0	U	62.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1426.0	1427.0	2.0	51.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1428.0	1429.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1431.0	1431.0	U	300.0			QL=2 ST=2 TYP=3
	610	SGMR	4 S/F	1433.0	1433.0	4.0	56.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1456.0	1456.0	U	63.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1505.0	1505.0	U	51.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1505.0	1505.0	U	64.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1523.0	1525.0	3.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1525.0	1526.0	4.0	57.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1525.0	1525.0	U	56.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1526.0	1526.0	U	100.0			QL=2 ST=2 TYP=3
	4995	SVTO	8 S	1526.0	1526.0	U	77.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1527.0	1528.0	1.0	240.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1533.0	1534.0	2.0	90.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1605.5	1605.9	1.5	15.0	7.0		
	9500	CUBA	1 S	1701.3	1702.3	1.7	17.0	8.0		
	2800	PENT	41 F	1728.0	1811.0	54.0	440.0			
	9500	CUBA	21 GRF	1729.0	1742.0	37.0	17.0	8.0		
	9500	CUBA	4 S/F	1730.0	1733.8	10.5	111.0	55.0		
	8800	SGMR	4 S/F	1731.0	1733.0	9.0	100.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1733.0	1733.0	1.0	94.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1733.0	1733.0	U	53.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1733.0	1733.0	U	51.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1733.0	1734.0	7.0	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1733.0	1733.0	7.0	77.0			QL=4 ST=2 TYP=3
	4995	PALE	48 C	1810.0	1811.0	3.0	100.0			QL=4 ST=2 TYP=8
	2695	PALE	8 S	1811.0	1811.0	U	62.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1811.0	1811.0	3.0	81.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1811.0	1811.0	3.0	150.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1811.0	1811.0	3.0	61.0			QL=4 ST=2 TYP=3
	9500	CUBA	3 S	1811.0	1811.8	3.3	95.0	47.0		
	8800	SGMR	8 S	1821.0	1821.0	U	53.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1842.0	1842.0	U	200.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2000.0	2000.0	U	53.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2000.0	2000.0	U	51.0			QL=4 ST=2 TYP=3
1415	SGMR	8 S	2000.0	2000.0	1.0	56.0			QL=4 ST=2 TYP=3	
9500	CUBA	28 PRE	2031.0	2034.0	6.2	32.0	16.0			
9500	CUBA	49 GB	2037.2	2038.0U	46.0	415.0D	207.0D			
9500	CUBA	49 GB	2037.2	2046.2	46.0	4598.0	2299.0			
9500	CUBA	49 GB	2037.2	2051.2	46.0	4260.0	2130.0			
1415	SGMR	49 GB	2039.0	2043.0	18.0	1700.0			QL=4 ST=2 TYP=6	
2695	SGMR	49 GB	2039.0	2041.0	16.0	2500.0			QL=4 ST=2 TYP=6	
4995	SGMR	49 GB	2039.0	2043.0	14.0	4700.0			QL=4 ST=2 TYP=6	
8800	SGMR	49 GB	2039.0	2043.0	13.0	11000.0			QL=4 ST=2 TYP=6	
2695	SGMR	49 GB	2039.0	2041.0	201.0	2500.0			QL=4 ST=1 TYP=6	
610	SGMR	49 GB	2040.0	2054.0	19.0	57000.0			QL=4 ST=2 TYP=6	
410	SGMR	49 GB	2041.0	2055.0	18.0	44000.0			QL=4 ST=2 TYP=6	
245	SGMR	49 GB	2042.0	2042.0	14.0	360000.0			QL=4 ST=2 TYP=6	
245	SGMR	49 GB	2042.0	2042.0	198.0	360000.0			QL=4 ST=1 TYP=6	
9500	CUBA	30 PBI	2123.2	2123.2	51.8	136.0	68.0			
9500	CUBA	2 S/F	2134.6	2136.3	6.6	44.0	22.0			
245	LEAR	48 C	2253.0E	2254.0U	35.0D	8200.0			QL=2 ST=2 TYP=8	

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

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
29	610	LEAR	48 C	2253.0E	2307.0U	33.0D	2200.0			QL=2 ST=2 TYP=8
	410	LEAR	48 C	2253.0E	2255.0U	53.0D	5000.0			QL=2 ST=2 TYP=8
	245	PALE	48 C	2300.0	2426.0	139.0	6000.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	2312.0	2427.0	127.0	3000.0			QL=4 ST=2 TYP=8
30	410	SVTO	43 NS	0536.0	0640.0U	491.0	210.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0536.0	1253.0U	592.0	350.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	0536.0	0547.0U	1104.0	58.0			QL=4 ST=1 TYP=1
	127	TORN	44 NS	0620.0E		520.0D		180.0		V=1
	204	IZMI	44 NS	0700.0E		300.0D		165.0		
	245	SGMR	43 NS	1135.0	1919.0	583.0	400.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1135.0	1919.0	583.0	400.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1135.0	1136.0U	745.0	64.0			QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1325.0	1918.0	473.0	80.0			QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1325.0	1325.0	635.0	52.0			QL=4 ST=3 TYP=1
	245	PALE	43 NS	1650.0	0122.0	651.0	850.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	1650.0	2039.0	651.0	680.0			QL=4 ST=2 TYP=1
	610	PALE	43 NS	1650.0	0127.0	651.0	280.0			QL=4 ST=2 TYP=1
	610	SGMR	43 NS	1933.0	2012.0	105.0	50.0			QL=4 ST=2 TYP=1
	410	LEAR	43 NS	2225.0	2300.0	86.0	180.0			QL=4 ST=3 TYP=1
	410	LEAR	43 NS	2225.0	2232.0	95.0	140.0			QL=4 ST=1 TYP=1
	410	LEAR	43 NS	2225.0	2300.0	95.0	180.0			QL=4 ST=1 TYP=1
	610	LEAR	43 NS	2225.0	2234.0	105.0	140.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	2225.0	0416.0	689.0	220.0			QL=4 ST=2 TYP=1
	2840	PEKG	3 S	0154.0	0158.4	13.0	58.5			
	8800	LEAR	8 S	0156.0	0157.0	2.0	140.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0156.0	0156.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0156.0	0157.0	2.0	160.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0156.0	0157.0	8.0	110.0			QL=4 ST=2 TYP=3
	2804	VORO	41 F	0156.0	0215.0	19.0	57.0			
	2804	VORO	41 F	0156.0	0158.5	7.5	28.2			
	2800	HIRA	1 S	0157.0	0159.0	4.0	25.0			0
	4995	LEAR	8 S	0157.0	0157.0	1.0	85.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0157.0	0157.0	1.0	82.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0210.0	0215.2	17.0	73.2			
	8800	LEAR	4 S/F	0214.0	0215.0	3.0	110.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0214.0	0214.0	U	61.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0214.0	0215.0	1.0	63.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0214.0	0215.0	2.0	100.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	0214.0	0215.0	3.0	120.0			QL=4 ST=2 TYP=3
	2800	HIRA	4 S/F	0215.0	0215.0	2.0	50.0			WL
	4995	LEAR	8 S	0215.0	0215.0	1.0	61.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0216.0	0216.0	1.0	64.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0216.0	0216.0	U	59.0			QL=4 ST=2 TYP=3
	2804	VORO	20 GRF	0228.0	0300.0	92.0	22.8			
	2840	PEKG	1 S	0238.0	0241.4	7.0	8.8			
	610	LEAR	8 S	0651.0	0651.0	U	240.0			QL=4 ST=2 TYP=3
610	SVTO	8 S	0651.0	0651.0	U	190.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	0705.0	0705.0	U	250.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0720.0	0721.0	1.0	120.0			QL=4 ST=2 TYP=3	
204	IZMI	45 C	0720.9	0720.9	0.5	1539.0				
410	SVTO	8 S	0721.0	0721.0	U	100.0			QL=4 ST=2 TYP=3	
245	SVTO	49 GB	1009.0	1009.0	3.0	1500.0			QL=4 ST=2 TYP=6	
410	SVTO	4 S/F	1009.0	1009.0	3.0	58.0			QL=4 ST=2 TYP=3	
204	IZMI	41 F	1009.8	1009.9	0.3	261.0				
33	UPIC	42 SER	1210.5	1211.0	23.0					
4995	SVTO	4 S/F	1221.0	1222.0	7.0	79.0			QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	1221.0	1222.0	7.0	70.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1222.0	1222.0	U	56.0			QL=4 ST=2 TYP=3	
4995	SGMR	8 S	1222.0	1222.0	1.0	63.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	1222.0	1222.0	1.0	77.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1222.0	1222.0	U	250.0			QL=2 ST=2 TYP=3	
2695	SVTO	8 S	1222.0	1222.0	U	22.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1233.0	1233.0	U	360.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1233.0	1233.0	U	470.0			QL=2 ST=2 TYP=3	
245	SGMR	49 GB	1333.0	1333.0	U	2500.0			QL=4 ST=2 TYP=6	
610	SGMR	8 S	1333.0	1333.0	U	58.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	1333.0	1333.0	U	31.0			QL=4 ST=2 TYP=3	
245	SVTO	49 GB	1333.0	1333.0	1.0	3700.0			QL=2 ST=2 TYP=6	

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

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Oct 03

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak	Mean			
							(10 -22 W/m <sup>2</sup> Hz)				
30	410	SVTO	8 S	1333.0	1333.0	U	100.0			QL=2 ST=2 TYP=3	
	610	SVTO	8 S	1333.0	1333.0	U	150.0			QL=2 ST=2 TYP=3	
	1415	SVTO	8 S	1333.0	1333.0	U	33.0			QL=4 ST=2 TYP=3	
	4995	SVTO	8 S	1333.0	1333.0	U	21.0			QL=4 ST=2 TYP=3	
	15400	SVTO	8 S	1420.0	1420.0	1.0	63.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	1446.0	1446.0	U	80.0			QL=2 ST=2 TYP=3	
	245	SVTO	8 S	1502.0	1504.0	2.0	230.0			QL=2 ST=2 TYP=3	
	15400	SVTO	4 S/F	1502.0	1504.0	4.0	50.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1503.0	1504.0	1.0	360.0			QL=4 ST=2 TYP=3	
	410	SVTO	49 GB	1503.0	1504.0	1.0	570.0			QL=2 ST=2 TYP=6	
	8800	SVTO	8 S	1504.0	1504.0	U	22.0			QL=4 ST=2 TYP=3	
	9500	CUBA	2 S/F	1507.0	1508.0	2.7	56.0	28.0			
	15400	SGMR	8 S	1517.0	1517.0	2.0	68.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1517.0	1517.0	4.0	93.0				QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1517.0	1517.0	6.0	110.0				QL=4 ST=2 TYP=3
	8800	SVTO	48 C	1517.0	1517.0	4.0	100.0				QL=2 ST=2 TYP=8
	4995	SVTO	8 S	1517.0	1517.0	1.0	71.0				QL=2 ST=2 TYP=3
	15400	SVTO	8 S	1517.0	1517.0	1.0	52.0				QL=2 ST=2 TYP=3
	2695	SVTO	8 S	1518.0	1518.0	U	29.0				QL=2 ST=2 TYP=3
	410	SGMR	8 S	1618.0	1618.0	U	84.0				QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1840.0	1906.0	52.0U	1010.0				
	410	SGMR	49 GB	1905.0	1906.0	1.0	860.0				QL=4 ST=2 TYP=6
	245	PALE	49 GB	1906.0	1907.0	1.0	550.0				QL=4 ST=2 TYP=6
	410	PALE	49 GB	1906.0	1906.0	1.0	1400.0				QL=4 ST=2 TYP=6
	245	SGMR	8 S	1906.0	1906.0	U	490.0				QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1906.0	1906.0	2.0	130.0				QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1906.0	1906.0	2.0	100.0				QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1906.0	1906.0	1.0	100.0				QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1906.0	1906.0	1.0	140.0				QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1906.0	1906.0	1.0	100.0				QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1906.0	1906.0	3.0	59.0				QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1906.0U	1907.3	2.4D	30.0	15.0			
	1415	PALE	8 S	1907.0	1907.0	U	120.0				QL=4 ST=2 TYP=3
	2695	PALE	8 S	1907.0	1907.0	1.0	110.0				QL=4 ST=2 TYP=3
	4995	PALE	8 S	1907.0	1907.0	1.0	130.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	1907.0	1907.0	U	150.0				QL=4 ST=2 TYP=3
	15400	PALE	8 S	1907.0	1907.0	U	130.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1918.0	1918.0	1.0	200.0				QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1918.0	1918.0	3.0	160.0				QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1919.0	1919.0	U	500.0				QL=4 ST=2 TYP=6
	610	PALE	48 C	1919.0	1919.0	54.0	110.0				QL=4 ST=2 TYP=8
	4995	PALE	49 GB	2035.0	2050.0	179.0	14000.0				QL=4 ST=2 TYP=6
8800	PALE	49 GB	2035.0	2045.0	179.0	15000.0				QL=4 ST=2 TYP=6	
2695	PALE	48 C	2036.0	2051.0	194.0	5300.0				QL=4 ST=2 TYP=8	
15400	PALE	48 C	2036.0	2044.0	217.0	20000.0				QL=4 ST=2 TYP=8	
1415	PALE	48 C	2038.0	2043.0	87.0	3800.0				QL=4 ST=2 TYP=8	
610	PALE	48 C	2038.0	2054.0	204.0	66000.0				QL=4 ST=2 TYP=8	
245	PALE	48 C	2039.0	2042.0	212.0	400000.0				QL=4 ST=2 TYP=8	
410	PALE	48 C	2039.0	2055.0	219.0	64000.0				QL=4 ST=2 TYP=8	
610	PALE	8 S	2050.0	2052.0	2.0	57.0				QL=4 ST=2 TYP=3	
15400	PALE	8 S	2111.0	2111.0	U	100.0				QL=4 ST=2 TYP=3	
31	410	PALE	43 NS	0206.0	0328.0	95.0	130.0			QL=4 ST=2 TYP=1	
	410	PALE	43 NS	0206.0	0328.0	95.0	130.0			QL=4 ST=3 TYP=1	
	410	PALE	43 NS	0206.0	0215.0	1314.0	97.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0538.0	0556.0	1102.0	65.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0538.0	0740.0U	130.0	110.0			QL=4 ST=2 TYP=1	
	127	TORN	44 NS	0620.0E		520.0D		65.0		V=1	
	204	IZMI	44 NS	0700.0E		300.0D		50.0			
	245	SGMR	43 NS	1152.0	1844.0	549.0	600.0				QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1211.0	1212.0	134.0	160.0				QL=4 ST=2 TYP=1
	245	PALE	43 NS	1651.0	0147.0	650.0	420.0				QL=4 ST=2 TYP=1
	410	PALE	43 NS	1752.0	2247.0	406.0	180.0				QL=4 ST=2 TYP=1
	610	PALE	43 NS	2058.0	2220.0	190.0	150.0				QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2223.0	2304.0	315.0	170.0				QL=4 ST=2 TYP=1
	2840	PEKG	5 S	0047.0	0050.5	7.0	68.1				
	2804	VORO	40 F	0047.7	0050.2	2.8	39.3				
2800	HIRA	8 S	0050.0	0050.0	1.0	40.0			0		
2804	VORO	8 S	0104.0	0104.2	0.6	16.4					

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

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
31	245	LEAR	8 S	0353.0	0353.0	U	300.0			QL=2 ST=2 TYP=3
	2840	PEKG	5 S	0424.0	0429.4	9.0	88.2			
	500	HIRA	8 S	0427.0	0428.0	1.0	215.0			0
	410	LEAR	49 GB	0427.0	0427.0	2.0	600.0			QL=4 ST=2 TYP=6
	610	LEAR	8 S	0427.0	0427.0	2.0	230.0			QL=4 ST=2 TYP=3
	2804	VORO	4 S/F	0428.5	0429.1	3.3	75.4			
	2800	HIRA	8 S	0429.0	0430.0	2.0	80.0			0
	2695	LEAR	8 S	0429.0	0429.0	U	67.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0429.0	0429.0	U	170.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0429.0	0429.0	U	190.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0429.0	0429.0	U	110.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0510.0	0510.0	U	410.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0510.0	0510.0	U	400.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0510.0	0510.0	1.0	90.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0511.0	0511.0	1.0	170.0			0
	245	LEAR	49 GB	0552.0	0553.0	1.0	590.0			QL=4 ST=2 TYP=6
	410	LEAR	8 S	0552.0	0552.0	U	56.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0553.0	0553.0	U	82.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0553.0	0553.0	2.0	390.0			QL=2 ST=2 TYP=3
	500	HIRA	8 S	0554.0	0554.0	1.0	185.0			0
	2840	PEKG	3 S	0603.0	0611.9	12.0	37.2			
	500	HIRA	8 S	0612.0	0612.0	1.0	15.0			0
	410	SVTO	8 S	0633.0	0633.0	U	92.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0633.0	0633.0	1.0	100.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0757.0	0759.4	8.0	13.0			
	410	LEAR	8 S	0759.0	0759.0	1.0	240.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0759.0	0759.0	U	340.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0759.0	0759.0	U	160.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0759.0	0759.0	U	450.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0840.4	0841.8	1.7	279.0			
	127	TORN	47 GB	0840.5	0841.7	4.5		180.0		DISTURBED
	245	SVTO	8 S	0841.0	0841.0	U	99.0			QL=2 ST=2 TYP=3
	33	UPIC	46 C	0841.0	0841.5	3.0				
	245	SVTO	8 S	0902.0	0903.0	1.0	65.0			QL=2 ST=2 TYP=3
	3000	IZMI	40 F	0921.6	0938.1	19.4	5.0			
	410	SVTO	8 S	0950.0	0950.0	U	90.0			QL=2 ST=2 TYP=3
	610	SVTO	48 C	1121.0	1125.0	5.0	210.0			QL=2 ST=2 TYP=8
	245	SVTO	49 GB	1121.0	1121.0	1.0	7500.0			QL=2 ST=2 TYP=6
	410	SVTO	8 S	1121.0	1121.0	1.0	290.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	1121.0	1121.0	2.0	210.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1121.0	1121.0	1.0	260.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1121.0	1122.0	4.0	60.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1121.0	1122.0	4.0	140.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1121.0	1121.0	4.0	170.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1121.0	1122.0	759.0	60.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	1121.0	1121.0	759.0	37.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	1121.0	1122.0	759.0	140.0			QL=4 ST=1 TYP=3
	4995	SVTO	4 S/F	1121.0	1121.0	759.0	85.0			QL=4 ST=1 TYP=3
	4995	SVTO	4 S/F	1121.0	1121.0	759.0	170.0			QL=4 ST=1 TYP=3
	8800	SVTO	4 S/F	1121.0	1121.0	759.0	140.0			QL=4 ST=1 TYP=3
8800	SVTO	4 S/F	1121.0	1121.0	759.0	210.0			QL=4 ST=1 TYP=3	
15400	SVTO	4 S/F	1121.0	1121.0	759.0	200.0			QL=4 ST=1 TYP=3	
15400	SVTO	4 S/F	1121.0	1121.0	759.0	260.0			QL=4 ST=1 TYP=3	
204	IZMI	46 C	1121.4	1121.8	4.4	21652.0				
3000	IZMI	45 C	1121.6	1122.0	4.0	196.0		43.3		
33	UPIC	46 C	1122.0	1123.0	3.0					
245	SGMR	8 S	1141.0	1142.0	1.0	240.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1141.0	1142.0	1.0	170.0			QL=2 ST=2 TYP=3	
204	IZMI	41 F	1141.9	1142.1	0.3	72.0				
245	SVTO	8 S	1505.0	1505.0	U	60.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1507.0	1507.0	1.0	120.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1516.0	1516.0	U	75.0			QL=4 ST=2 TYP=3	
9500	CUBA	21 GRF	1656.0	1816.0	88.0	18.0		9.0		
9500	CUBA	1 S	1656.0	1656.4	1.0	14.0		7.0		
9500	CUBA	2 S/F	1700.7	1704.9	4.9	23.0		11.0		
4995	SGMR	8 S	1701.0	1701.0	1.0	24.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	1701.0	1702.0	1.0	61.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	1704.0	1704.0	U	67.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1736.0	1736.0	1.0	220.0			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

43  
Oct 03

OCTOBER 2003

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
31	4995	PALE	8 S	1736.0	1736.0	1.0	110.0			QL=4 ST=2 TYP=3	
	8800	PALE	8 S	1736.0	1736.0	U	98.0			QL=4 ST=2 TYP=3	
	15400	PALE	8 S	1736.0	1736.0	U	76.0			QL=4 ST=2 TYP=3	
	2695	SGMR	8 S	1736.0	1736.0	U	37.0			QL=4 ST=2 TYP=3	
	4995	SGMR	8 S	1736.0	1736.0	2.0	110.0			QL=4 ST=2 TYP=3	
	8800	SGMR	8 S	1736.0	1736.0	U	85.0			QL=4 ST=2 TYP=3	
	15400	SGMR	8 S	1736.0	1736.0	U	56.0			QL=4 ST=2 TYP=3	
	9500	CUBA	4 S/F	1736.3	1736.7	6.5	71.0	35.0			
	1415	SGMR	4 S/F	1757.0	1758.0	3.0	73.0				QL=4 ST=2 TYP=3
	245	PALE	49 GB	1844.0	1844.0	1.0	730.0				QL=4 ST=2 TYP=6
	410	SGMR	8 S	1922.0	1922.0	1.0	230.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	1931.0	1932.0	1.0	74.0				QL=4 ST=2 TYP=3
	610	PALE	8 S	1931.0	1932.0	1.0	120.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	1932.0	1932.0	U	340.0				QL=4 ST=2 TYP=3
	245	PALE	49 GB	2006.0	2006.0	1.0	1000.0				QL=4 ST=2 TYP=6
	410	PALE	8 S	2006.0	2006.0	U	53.0				QL=4 ST=2 TYP=3
	245	SGMR	49 GB	2006.0	2006.0	U	740.0				QL=4 ST=2 TYP=6
	410	SGMR	8 S	2006.0	2006.0	U	55.0				QL=4 ST=2 TYP=3
	500	HIRA	8 S	2237.0	2238.0	2.0	225.0				

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	

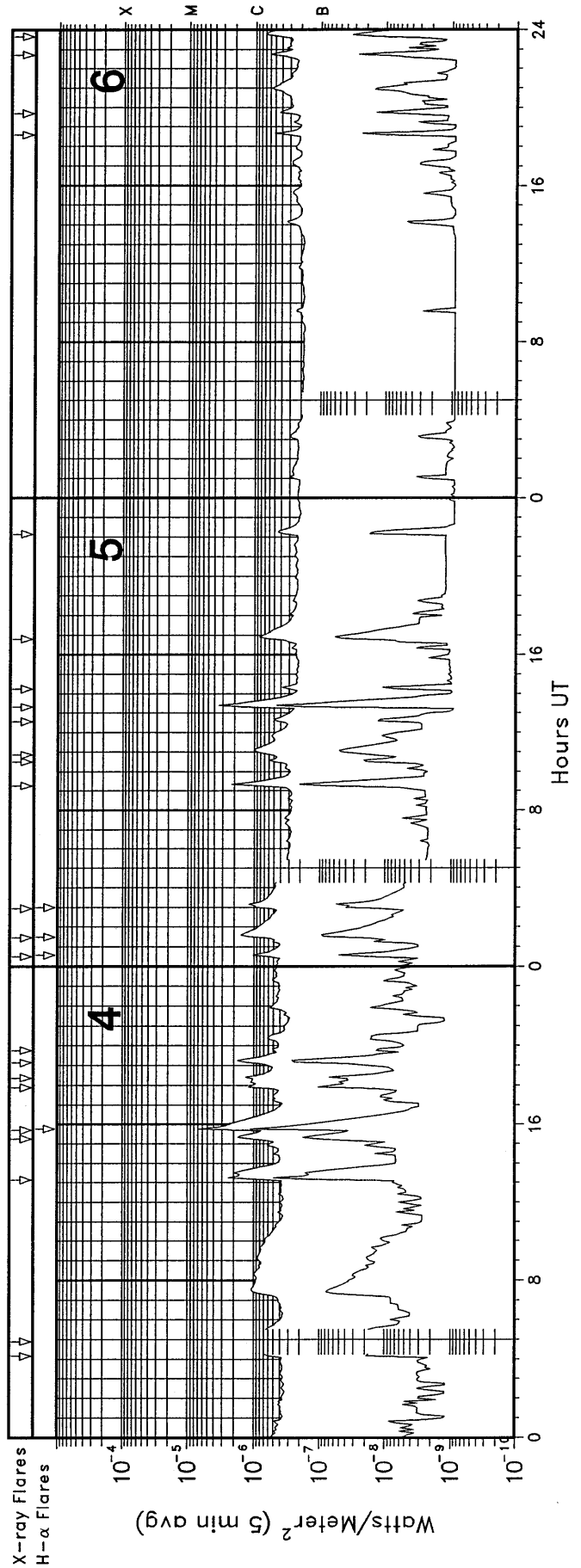
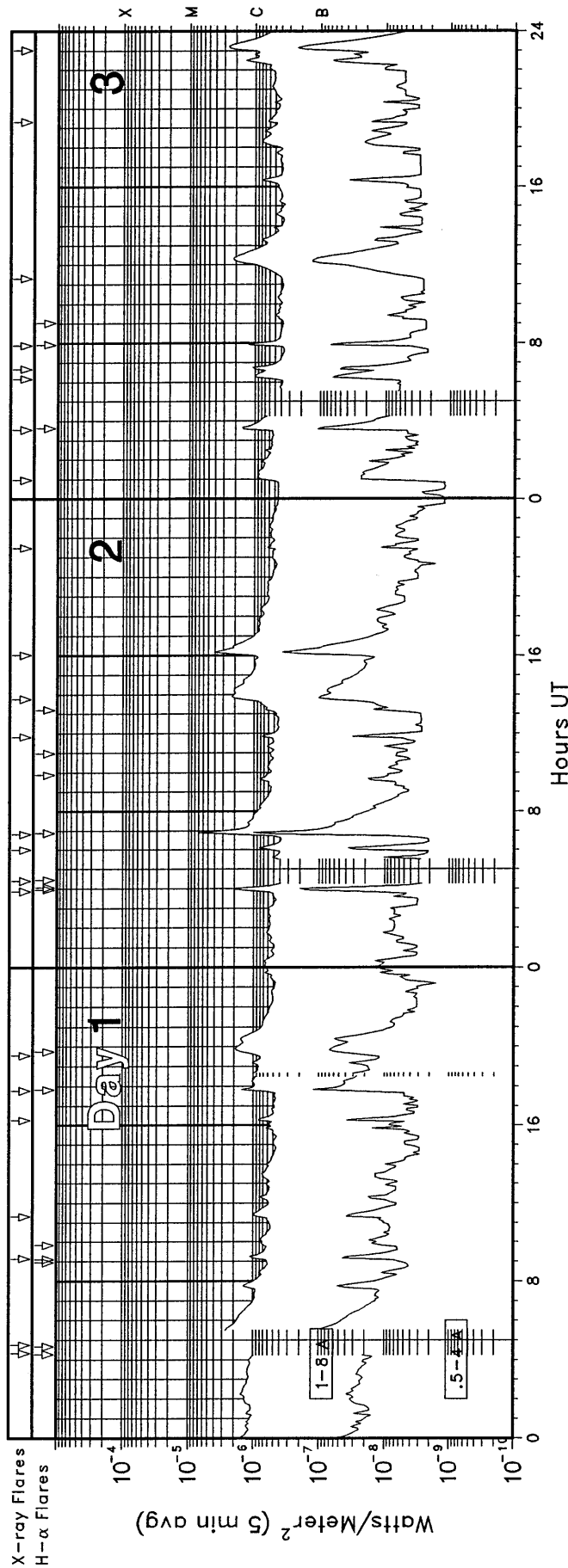
Explanation of Type Code:

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.

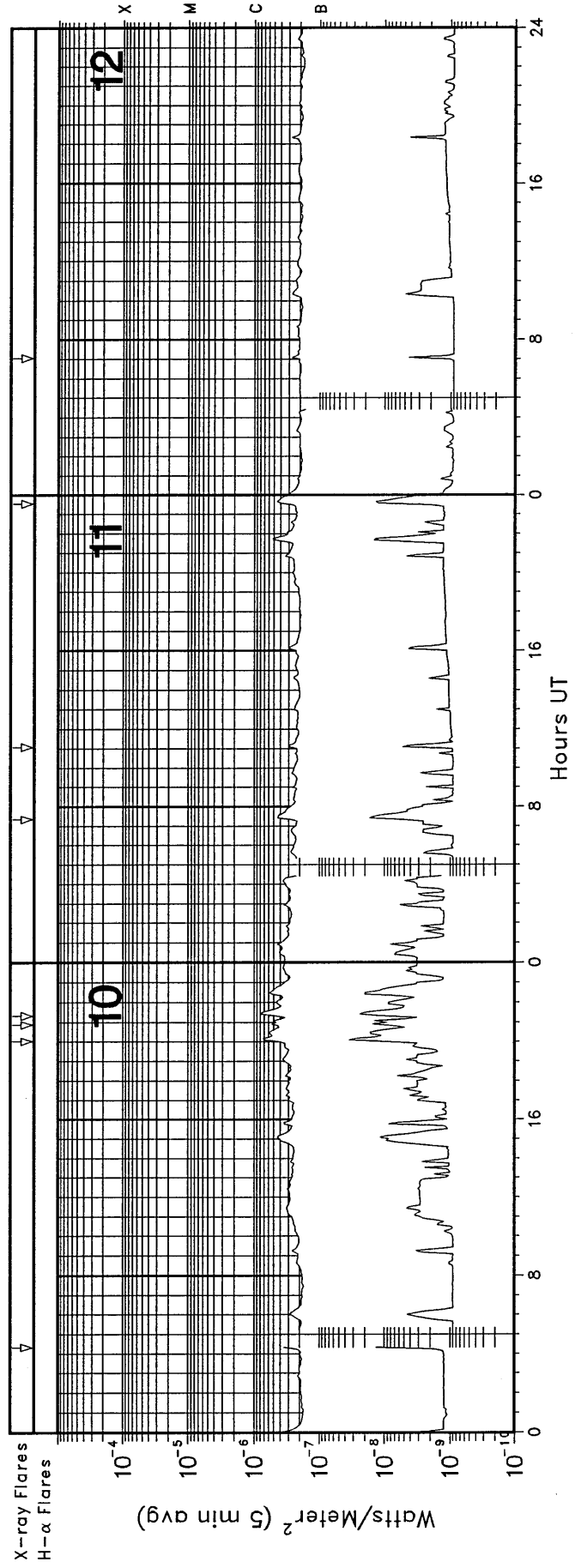
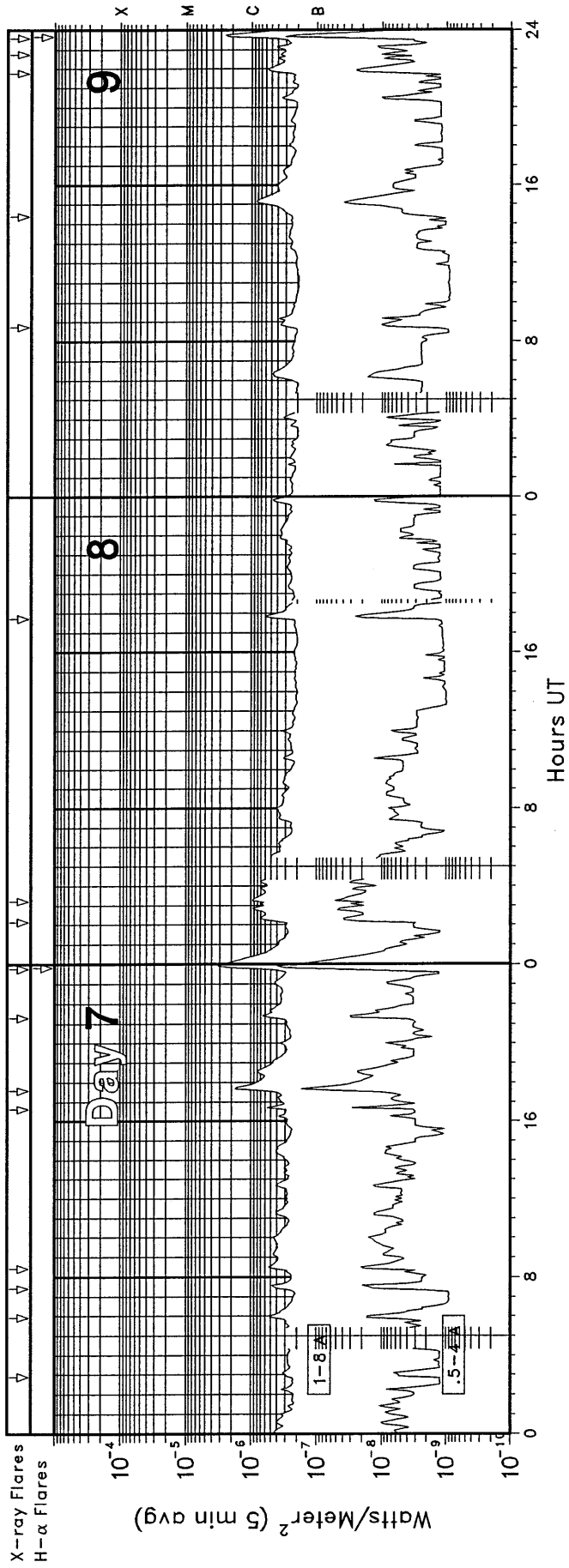
# GOES X-RAY DETECTOR

October 2003

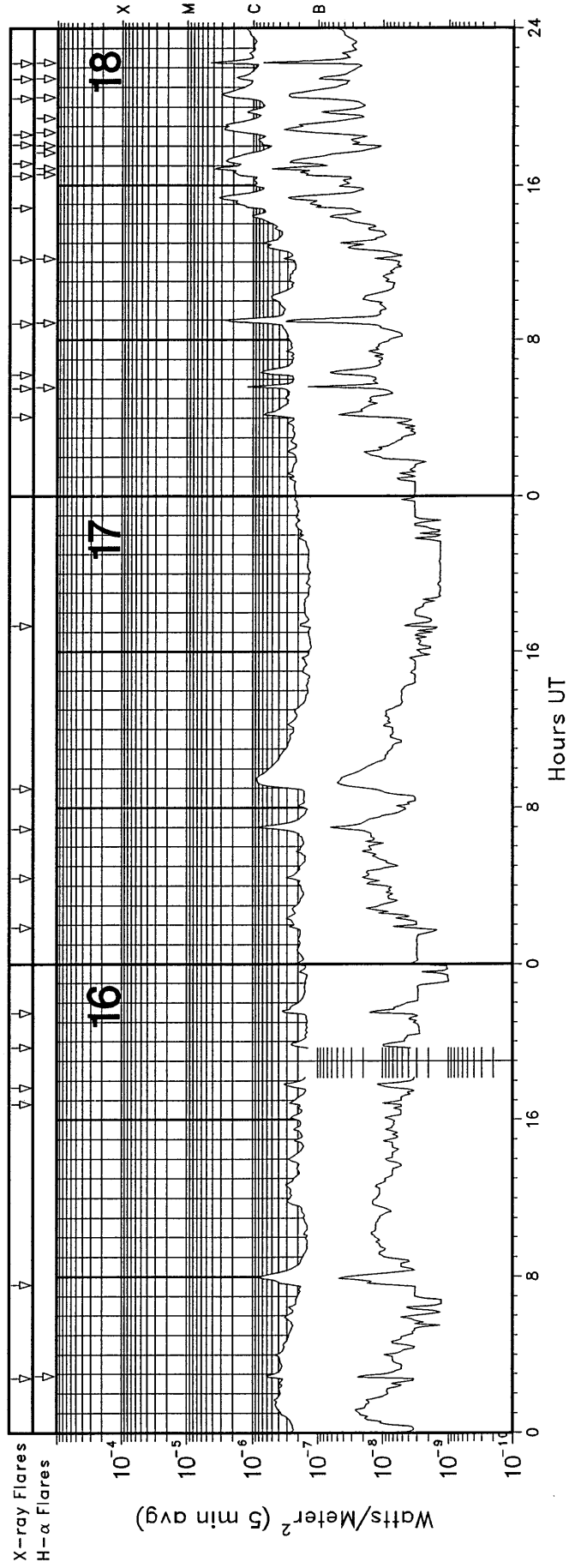
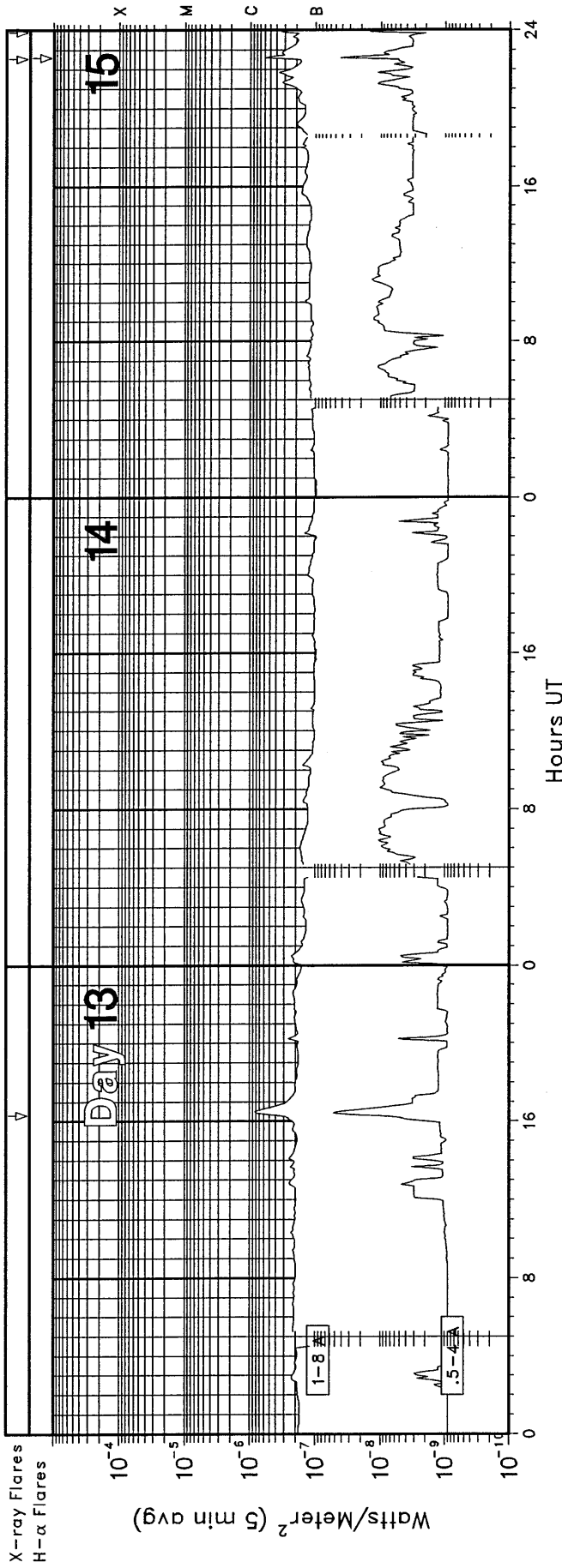


# GOES X-RAY DETECTOR

## October 2003



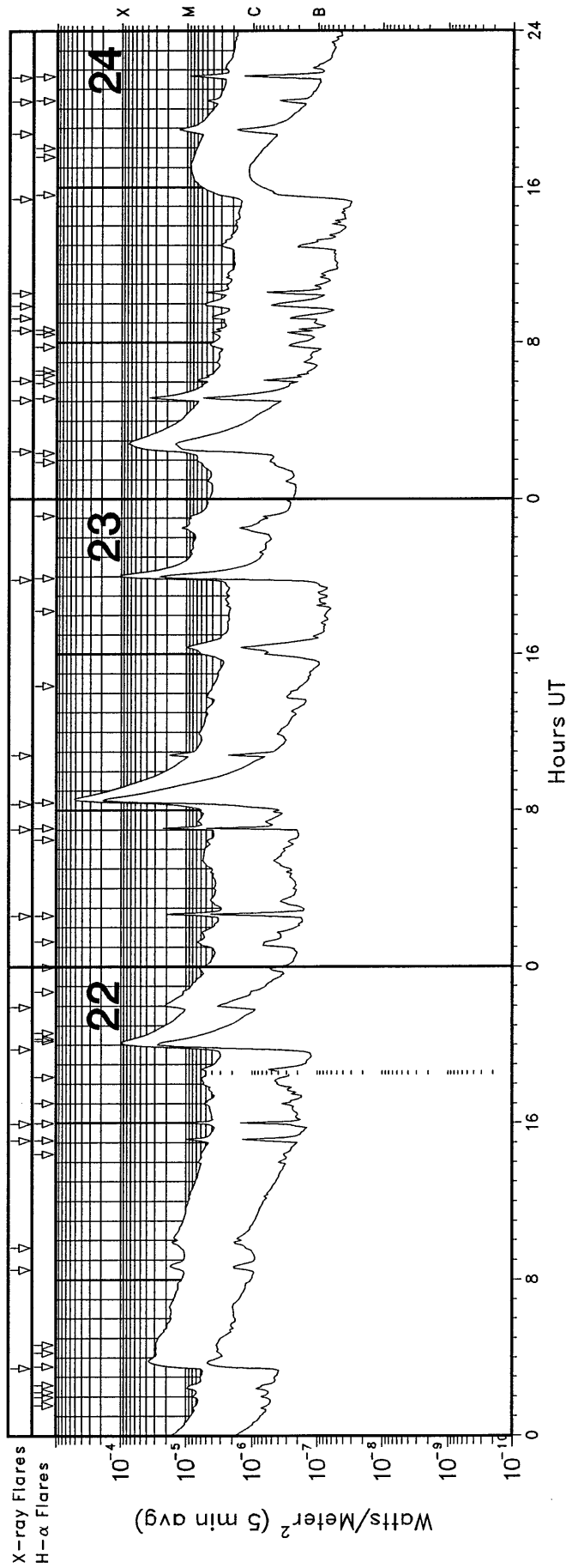
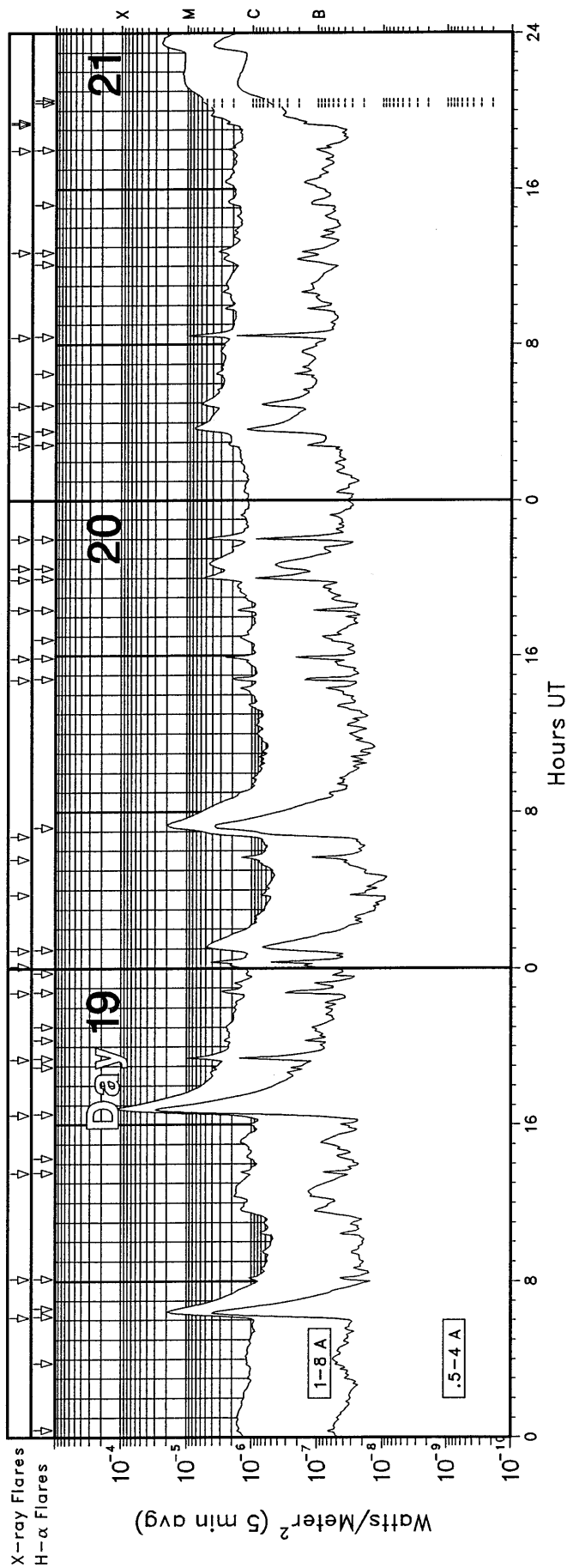
# GOES X-RAY DETECTOR October 2003



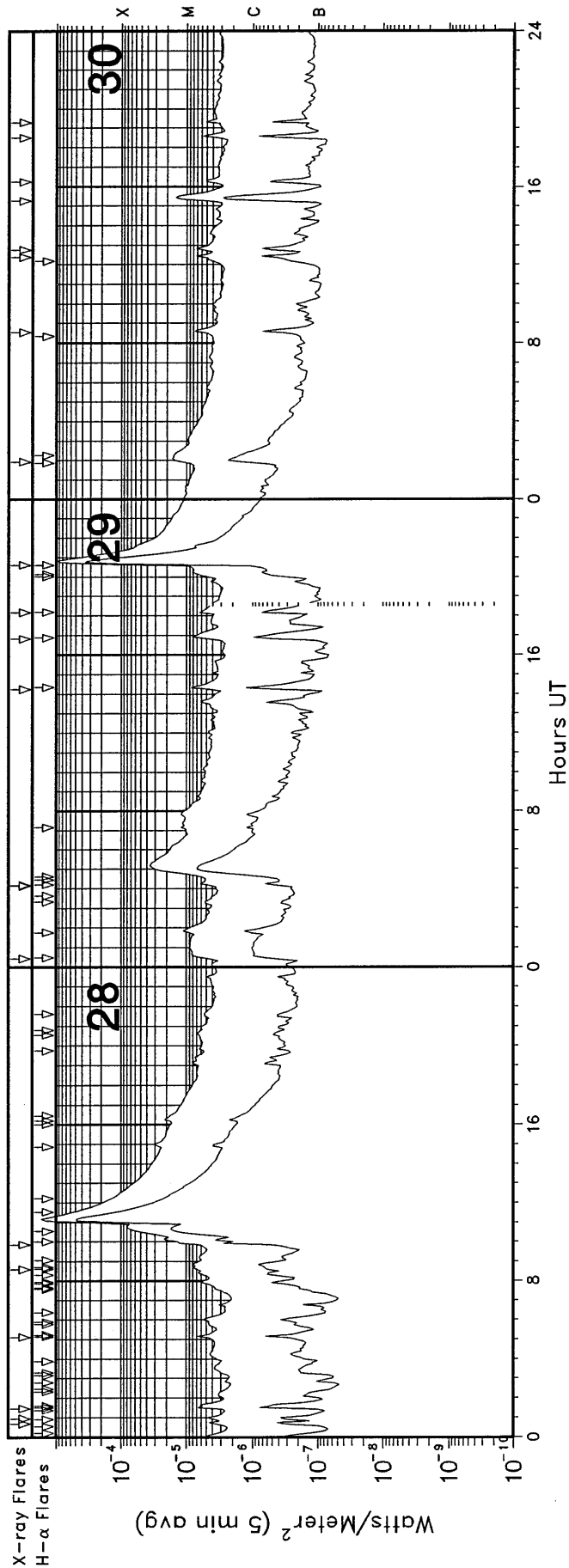
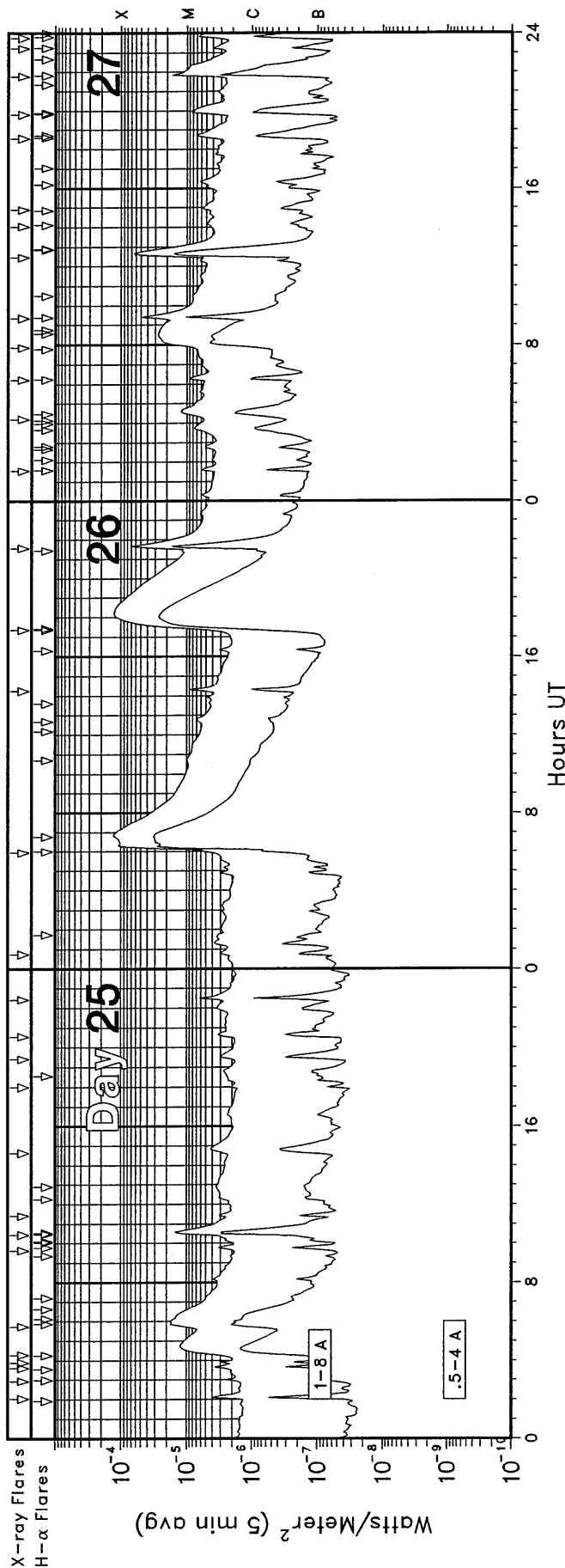


# GOES X-RAY DETECTOR

## October 2003

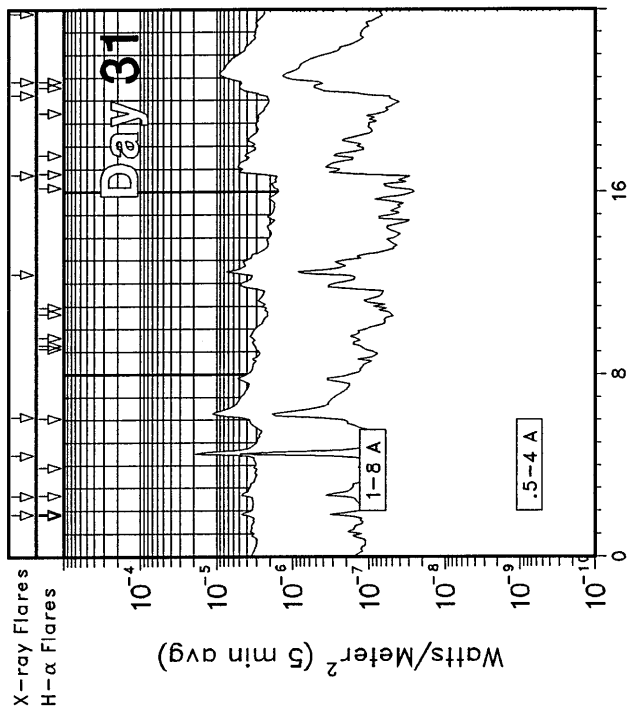


# GOES X-RAY DETECTOR October 2003



# GOES X-RAY DETECTOR

October 2003



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

October 2003

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	0419	0427	0435	N06	W63	SF	C3.3	10464	2.5E-03
01	0444	0451	0459	N05	W57	1F	M1.4	10464	8.7E-03
01	0909	0915	0920				C1.2		6.8E-04
01	1119	1124	1140				B9.8		1.1E-03
01	1615	1618	1623				B9.7		4.1E-04
01	1746	1752	1757	N04	W63	SF	C1.6	10464	7.8E-04
01	1933	1952	2039	S16	E03	SF	C1.6	10470	5.9E-03
02	0351	0401	0405	N08	W69	SF	C2.4	10464	1.2E-03
02	0423	0428	0437	N05	W72	SF	B9.0	10464	6.3E-04
02	0600	0606	0613				B8.6		5.6E-04
02	0649	0656	0701	N05	W79	1F	C7.8	10464	3.3E-03
02	1149	1153	1157				B8.6		3.5E-04
02	1346	1356	1428				C2.2		5.0E-03
02	1602	1611	1621				C4.2	10471	3.3E-03
02	2129	2132	2135				B6.9		2.2E-04
03	0058	0106	0147				B9.4		2.4E-03
03	0333	0338	0346	S06	E32	SF	C2.0	10471	1.1E-03
03	0610	0619	0637				C1.0		1.4E-03
03	0640	0644	0647				C1.4		4.7E-04
03	0753	0757	0801	S10	E42	SF	C1.7	10471	5.5E-04
03	1119	1218	1244				C2.1		5.8E-03
03	1919	1922	1932				B6.8		4.9E-04
03	2301	2314	2328				C2.7		3.4E-03
04	0409	0415	0419				B7.4		3.7E-04
04	0454	0501	0507				C1.7		9.7E-04
04	1309	1317	1341				C2.5		3.2E-03
04	1515	1523	1530				C1.7	10471	1.3E-03
04	1542	1547	1549	S10	E29	SF	M1.0	10471	2.1E-03
04	1753	1757	1803				C1.6	10471	6.6E-04
04	1822	1826	1829				C1.3	10471	5.2E-04
04	1908	1917	1922				C1.7		1.2E-03
04	1946	1949	1952				B5.9		1.9E-04
05	0030	0037	0043	S08	E20	SF	C1.0	10471	6.6E-04
05	0126	0139	0153	S07	E21	SF	C1.5	10471	2.0E-03
05	0256	0312	0317	S06	E05	SF	C1.2	10473	1.2E-03
05	0916	0920	0925				C2.6		9.5E-04
05	1030	1034	1038				B7.2	10471	2.7E-04
05	1051	1106	1116				C1.0		1.3E-03
05	1234	1240	1247				B5.2	10471	3.6E-04
05	1319	1328	1330				C4.2		1.6E-03
05	1415	1422	1426				B3.9	10471	2.2E-04
05	1648	1654	1711				B8.7	10471	9.7E-04
05	2209	2215	2227				B4.4	10471	4.3E-04
06	1835	1840	1845				B5.8	10471	2.5E-04
06	1941	1948	1955				B4.6	10471	3.2E-04
06	2243	2248	2252				B6.6	10471	2.9E-04
06	2340	2350	2402				B7.0	10471	7.9E-04
07	0254	0257	0301				B3.2	10471	1.2E-04
07	0556	0559	0604				B5.6	10471	2.5E-04
07	0724	0738	0740				B6.0	10471	4.1E-04
07	0825	0829	0841				B6.1	10471	4.7E-04
07	1637	1642	1646				B6.4	10471	2.6E-04
07	1734	1743	1753				C1.8	10471	1.5E-03
07	2118	2125	2134				B6.8	10471	5.4E-04
07	2346	2357	2411	S07	W17	SF	C3.2	10471	3.4E-03
08	0209	0250	0302				B9.7	10471	2.2E-03
08	0313	0318	0328				C1.0	10471	7.9E-04
08	1743	1750	1802				B6.1	10471	5.7E-04

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
09	0845	0913	0917				B4.1		6.5E-04
09	1423	1510	1529				B8.4		2.0E-03
09	2146	2200	2215				B5.7		8.1E-04
09	2245	2248	2252				B4.2		1.6E-04
09	2335	2346	2352	S06	W46	SF	C2.6	10471	1.8E-03
10	0420	0424	0426				B4.6		1.2E-04
10	2002	2009	2018				B7.6		6.2E-04
10	2052	2055	2101				B5.8		2.8E-04
10	2120	2130	2139				B7.8		7.6E-04
11	0721	0727	0746				B4.4		5.8E-04
11	1105	1109	1112				B3.6		1.3E-04
11	2333	2341	2359				B4.5		6.2E-04
12	0703	0706	0711				B2.8		1.2E-04
13	1619	1630	1640				B8.6		8.7E-04
15	2232	2236	2238	S14	W48	SF	B7.8	10477	1.6E-04
15	2353	2357	0000				B4.4		1.3E-04
16	0248	0252	0301	S13	W52	SF	B6.6	10477	4.4E-04
16	0735	0759	0812				B7.8		1.2E-03
16	1648	1653	1700				B2.7	10477	1.8E-04
16	1739	1751	1756				B3.4		2.8E-04
16	1943	1954	2001				B2.8		2.5E-04
16	2128	2134	2140				B4.1		2.3E-04
17	0152	0156	0200				B2.9	10477	1.3E-04
17	0423	0426	0429				B3.1	10482	1.0E-04
17	0655	0701	0708				B9.0	10482	5.3E-04
17	0859	0932	1006				B8.9		2.8E-03
17	1719	1723	1729				B2.2	10482	1.1E-04
18	0404	0413	0422				B7.1	10484	6.0E-04
18	0531	0538	0540	N05	E80	SF	C2.0	10484	4.9E-04
18	0612	0623	0633				B7.6		7.6E-04
18	0849	0900	0904	N05	E75	1F	C3.3	10484	1.6E-03
18	1208	1211	1214				B3.9	10484	1.2E-04
18	1448	1522	1531				C3.3	10484	5.2E-03
18	1628	1653	1658	N08	E74	SF	C4.9	10484	4.2E-03
18	1706	1715	1730				C2.6	10484	3.2E-03
18	1804	1808	1813	N05	E69	SF	B9.0	10484	4.0E-04
18	1836	1908	1914	N07	E69	SF	C3.0	10484	4.8E-03
18	2026	2041	2050	N07	E68	SF	C3.3	10484	3.4E-03
18	2125	2129	2133	N03	E67	SF	C2.3	10484	8.6E-04
18	2214	2218	2220				C6.5	10484	1.5E-03
19	0608	0626	0641	N06	E62	1F	M1.9	10484	2.3E-02
19	0806	0809	0813	N06	E60	SF	C1.3	10484	4.6E-04
19	1331	1335	1338				C1.6		6.0E-04
19	1629	1650	1704	N08	E58	1N	X1.1	10484	1.4E-01
19	1921	1926	1930	N05	E54	SF	M1.0	10484	4.2E-03
19	2245	2249	2253	N06	E51	SF	C3.8	10484	1.4E-03
20	0006	0024	0026	N03	E52	SF	C5.1	10484	3.2E-03
20	0054	0108	0129	N03	E51	SF	C4.9	10484	8.2E-03
20	0344	0347	0349				B8.6		2.2E-04
20	0534	0541	0544				C1.8		7.1E-04
20	0645	0722	0743	N03	E48	1N	M1.9	10484	3.9E-02
20	1445	1449	1452	N07	E43	SF	C3.3	10484	9.0E-04
20	1551	1555	1558	N03	E45	SF	C3.2	10484	9.9E-04
20	1821	1824	1826	N07	E41	SF	C2.4	10484	5.7E-04
20	1955	2002	2012	N02	E41	SF	C5.9	10484	4.5E-03

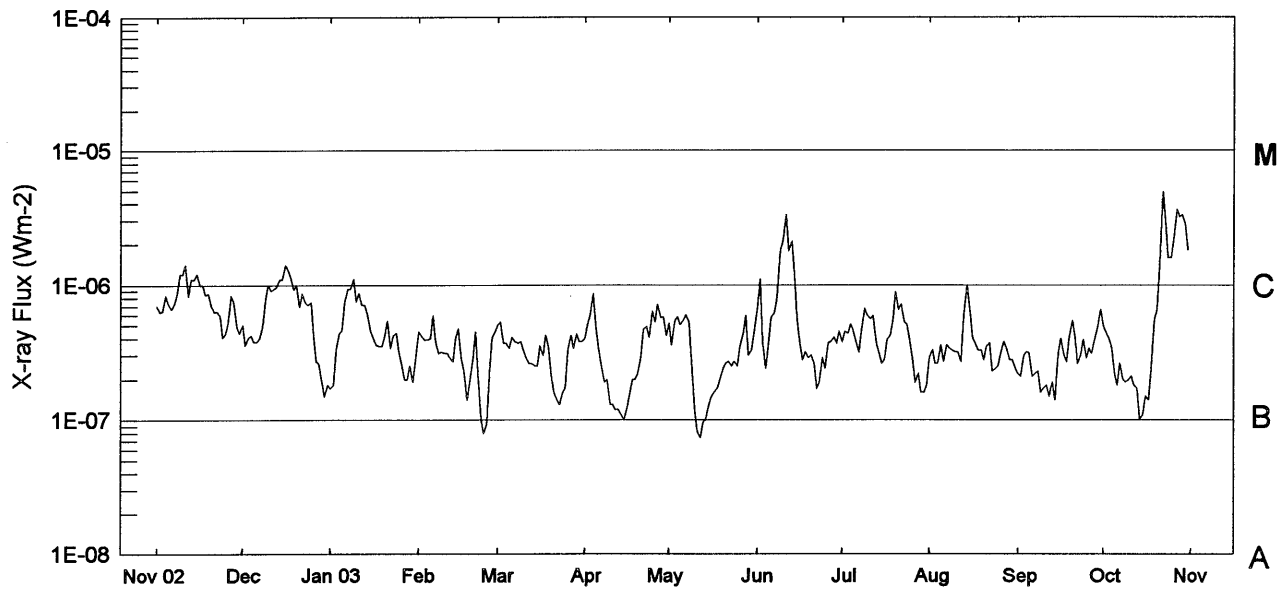
GOES SOLAR X-RAY FLARES  
\*\*Preliminary Listing\*\*

October 2003

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
20	2030	2046	2102	N07	E41	SF	C4.5	10484	7.5E-03
20	2200	2213U	2318D	N03	E42	SF	C6.2	10484	3.2E-03
21	0249	0253	0300	N05	E35	SF	C2.5	10484	1.4E-03
21	0319	0345	0413	N06	E37	SF	C7.9	10484	1.6E-02
21	0451	0459	0509	N06	E35	SF	C6.0	10484	5.8E-03
21	0821	0827	0831	N03	E34	SF	M1.0	10484	4.2E-03
21	1242	1245	1252				C3.4		1.9E-03
21	1757	1800	1803	N07	E28	SF	C2.5	10484	8.3E-04
21	1917	1920	1924				C3.3		1.0E-03
21	1922	2330	2705				M2.4		2.7E-01T
22	0328	0351	0521	N07	E25	SF	M3.7	10486	1.9E-01
22	0830	0844	0853				M1.7	10486	
22	0937	0956	0959				M1.7	10486	1.9E-02
22	1506	1511	1513	N05	E22	SN	M1.4	10484	3.9E-03
22	1557	1601	1604	N03	E17	SN	M1.2	10484	3.6E-03
22	1947	2007	2028				M9.9	10486	1.6E-01
22	2156	2204	2217				M2.1	10486	2.3E-02
23	0235	0241	0244	N03	E15	SN	M2.4	10484	7.3E-03
23	0702	0708	0710	N04	E13	1N	M3.2	10484	7.9E-03
23	0819	0835	0849	S21	E88	1B	X5.4	10486	6.0E-01
23	1049	1053	1055				M2.7	10484	6.5E-03
23	1950	2004	2014	S17	E84	1N	X1.1	10486	9.8E-02
24	0227	0254	0314	S19	E72	1N	M7.6	10486	1.6E-01
24	0504	0510	0516	S24	E74	1F	M4.2	10486	1.9E-02
24	0603	0607	0612				C7.5		3.5E-03
24	0837	0840	0842	N03	W07	SF	C4.8	10484	1.1E-03
24	0915	0918	0924				C4.6		2.3E-03
24	0952	0959	1008				C5.7		4.8E-03
24	1031	1035	1037				C9.1		1.9E-03
24	1523	1712	1842	S17	E55	SF	C8.9	10486	8.2E-02
24	1842	1856	1905				M1.3	10486	1.4E-02
24	2021	2027	2030	N04	W08	SF	C5.3	10484	2.6E-03
24	2135	2140	2145	N05	W09	1N	M1.0	10484	4.3E-03
25	0202	0206	0214				C4.3		2.3E-03
25	0256	0300	0304	N03	W17	SF	C2.6	10484	9.9E-04
25	0336	0341	0347	N05	W13	SF	C3.9	10484	2.1E-03
25	0353	0356	0359				C3.4		9.9E-04
25	0417	0446	0528	S15	E43	2N	M1.2	10486	4.1E-02
25	0544	0553	0626	N00	W15	SF	M1.7	10484	3.8E-02
25	0938	0949	0952				C3.4		2.2E-03
25	1026	1035	1045	N03	W20	SF	M1.5	10484	1.2E-02
25	1124	1128	1132				C3.4		1.5E-03
25	1438	1452	1504				C4.2		5.7E-03
25	1800	1804	1806				C2.4		7.6E-04
25	1925	1933	1944				C3.2		3.0E-03
25	2033	2043	2051				C3.3		3.1E-03
25	2226	2231	2233	S19	E48	1N	C7.9		2.2E-03

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
26	0045	0050	0057				C3.2		2.1E-03
26	0557	0654	0733	S15	E44	3B	X1.2	10486	5.1E-01
26	1415	1420	1424	N05	W33	SF	M1.0	10484	4.1E-03
26	1721	1819	1921	N02	W38	1N	X1.2	10484	6.3E-01
26	2134	2140	2148	N01	W38	2N	M7.6	10484	4.3E-02
27	0133	0138	0144	S21	E30	SF	C6.2	10486	3.6E-03
27	0412	0439	0508	N00	W44	SF	M1.2	10484	3.0E-02
27	0613	0618	0628	S20	E29	SF	C9.0	10486	7.3E-03
27	0751	0833	0924	N00	W45	2F	M2.7	10484	1.2E-01
27	0921	0927	0932	S16	E26	SF	M5.0	10486	2.6E-02
27	1227	1243	1252	S17	E25	SF	M6.7	10486	6.4E-02
27	1402	1411	1421				C5.1	10488	5.3E-03
27	1453	1457	1507	N09	E12	SF	C5.7	10488	4.5E-03
27	1834	1845	1855				C7.5	10486	7.4E-03
27	1948	1957	2016	N07	W50	1N	C9.0	10484	1.1E-02
27	2146	2151	2205	N08	E09	SN	M1.9	10488	1.3E-02
27	2312	2317	2322	N10	E10	SF	C4.1	10488	2.2E-03
27	2345	2352	2409				C6.8	10486	7.8E-03
28	0041	0045	0048	N08	E08	SF	C5.3	10488	1.8E-03
28	0056	0059	0102	N03	W55	1F	C6.7	10484	1.8E-03
28	0127	0133	0145	S19	E15	SF	C7.5	10486	6.1E-03
28	0507	0511	0514	N06	W53	1F	C7.7	10484	2.6E-03
28	0835	0839	0844				C8.7	10488	4.1E-03
28	0951	1110	1124	S16	E08	4BX	17.2	10486	1.8E00
29	0026	0151	0208				M1.1	10486	5.2E-02
29	0408	0511	0554				M3.5	10486	1.2E-01
29	0410	0417	0425				C6.2		4.9E-03
29	1415	1422	1428	S16	W03	SF	C9.2	10486	5.3E-03
29	1649	1657	1712	S19	W07	SF	C8.1	10486	8.9E-03
29	1810	1813	1817	N08	W16	SF	C7.8	10488	2.7E-03
29	2037	2049	2101	S15	W02	2BX	10.0	10486	8.7E-01
30	0156	0207	0229	N08	W22	1F	M1.6	10488	3.0E-02
30	0832	0837	0844	S21	W55	1F	C7.7	10492	4.9E-03
30	1222	1226	1230				C7.6		3.2E-03
30	1245	1251	1257				C7.3	10488	4.6E-03
30	1515	1528	1537				M1.5	10486	1.5E-02
30	1614	1618	1624				C5.7	10488	3.0E-03
30	1830	1836	1843				C5.8	10488	3.6E-03
30	1918	1921	1927				C5.6		2.6E-03
31	0150	0153	0156	N08	W25	SF	C5.5	10488	1.7E-03
31	0239	0243	0250	N08	W33	SF	C5.0	10488	3.0E-03
31	0426	0433	0437				M2.0		9.2E-03
31	0608	0616	0628	N08	W28	SF	M1.1	10488	1.1E-02
31	1224	1231	1235				C8.5		4.1E-03
31	1644	1706	1748				C5.3	10486	1.7E-02
31	2014	2039	2049	N08	W44	SF	C5.1	10488	8.7E-03
31	2050	2111	2141	N08	W44	SF	C9.5	10488	2.4E-02
31	2350	2420	2437				C4.4		9.6E-03

## Preliminary GOES Satellite Daily X-Ray Background Nov 2002 - Oct 2003



Day	Nov 02	Dec	Jan 03	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1	B7.0	B5.0	B1.7	B4.5	B5.1	B4.0	B5.2	B6.8	B3.8	B2.9	B2.2	B5.0
2	B6.3	B3.6	B1.8	B4.2	B5.3	B5.1	B3.6	C1.1	B4.5	B3.3	B2.1	B4.4
3	B6.4	B4.1	B3.3	B3.9	B3.7	B5.9	B5.4	B3.8	B4.4	B2.6	B3.0	B4.0
4	B8.3	B4.2	B4.4	B3.9	B3.7	B8.6	B5.8	B2.4	B5.1	B2.6	B3.2	B3.5
5	B7.3	B3.8	B4.6	B4.0	B3.4	B5.1	B5.1	B3.6	B4.6	B3.6	B3.1	B2.2
6	B6.7	B3.8	B7.4	B5.9	B4.1	B3.3	B5.4	B5.7	B3.7	B2.7	B2.1	B1.8
7	B7.2	B4.0	B9.3	B3.8	B3.8	B2.5	B6.0	B6.2	B3.2	B3.6	B2.2	B2.6
8	B8.4	B5.0	B9.4	B3.1	B3.7	B1.9	B5.3	B7.9	B4.6	B3.4	B2.3	B2.0
9	C1.2	B7.7	C1.1	B3.2	B3.8	B2.0	B2.7	C1.8	B6.7	B3.3	B1.6	B1.9
10	C1.2	C1.0	B7.6	B3.1	B3.3	B1.3	B1.2	C2.1	B5.9	B3.2	B1.7	B2.0
11	C1.4	B9.1	B8.7	B3.1	B2.9	B1.3	A8.2	C3.3	B5.6	B3.2	B1.8	B2.1
12	B8.3	B9.4	B7.1	B2.9	B2.6	B1.2	A7.4	C1.8	B5.9	B2.7	B1.5	B1.8
13	C1.1	B9.7	B7.1	B2.7	B2.6	B1.2	A9.7	C2.1	B3.8	B6.0	B1.9	B1.7
14	C1.1	C1.1	B6.2	B4.1	B2.5	B1.1	B1.0	C1.2	B3.2	C1.0	B1.4	B1.0
15	C1.2	C1.1	B4.6	B4.7	B2.5	B1.0	B1.3	B5.8	B2.6	B6.8	B3.1	B1.1
16	C1.0	C1.4	B4.1	B2.8	B3.5	B1.2	B1.5	B3.6	B2.8	B4.0	B4.0	B1.5
17	C1.0	C1.3	B3.6	B2.3	B3.0	B1.5	B1.6	B2.8	B3.9	B3.7	B3.0	B1.4
18	B8.5	C1.1	B3.5	B1.4	B4.2	B2.0	B1.7	B3.2	B4.2	B3.3	B2.7	B2.4
19	B8.6	B9.2	B3.5	B1.9	B3.6	B2.0	B2.0	B2.9	B5.4	B3.3	B4.1	B5.6
20	B7.1	C1.0	B4.2	B2.8	B2.1	B2.2	B2.4	B3.0	B8.9	B2.8	B5.4	B6.5
21	B6.3	B6.9	B5.4	B4.5	B1.6	B2.9	B2.6	B2.6	B6.6	B3.5	B4.2	C1.4
22	B6.4	B8.6	B3.4	B2.2	B1.4	B4.7	B2.7	B1.7	B7.2	B3.7	B2.6	C4.9
23	B5.9	B7.4	B4.2	B1.0	B1.3	B4.9	B2.5	B1.9	B5.3	B2.3	B3.0	C3.0
24	B4.1	B7.1	B4.4	A8.0	B1.6	B4.1	B2.7	B2.9	B5.1	B2.4	B3.9	C1.6
25	B4.3	B7.4	B3.2	A9.4	B1.7	B6.4	B2.5	B2.4	B4.0	B2.5	B2.9	C1.6
26	B5.1	B4.2	B2.6	B2.2	B3.3	B5.3	B3.5	B3.7	B2.8	B3.1	B3.4	C2.2
27	B8.3	B2.7	B2.0	B4.1	B4.2	B7.2	B4.3	B3.8	B1.9	B3.8	B3.1	C3.6
28	B7.6	B2.6	B2.0	B4.5	B3.4	B5.7	B5.9	B4.1	B2.2	B3.4	B4.0	C3.2
29	B4.9	B1.9	B2.5		B4.3	B5.8	B3.0	B3.7	B1.6	B2.8	B4.8	C3.3
30	B4.4	B1.5	B1.9		B3.8	B4.2	B3.3	B4.5	B1.6	B2.8	B6.6	C2.8
31		B1.8	B2.8		B3.8		B4.5		B1.8	B2.4		C1.8

NOTE: \* = Data not available.

## ACTIVE PROMINENCES AND FILAMENTS

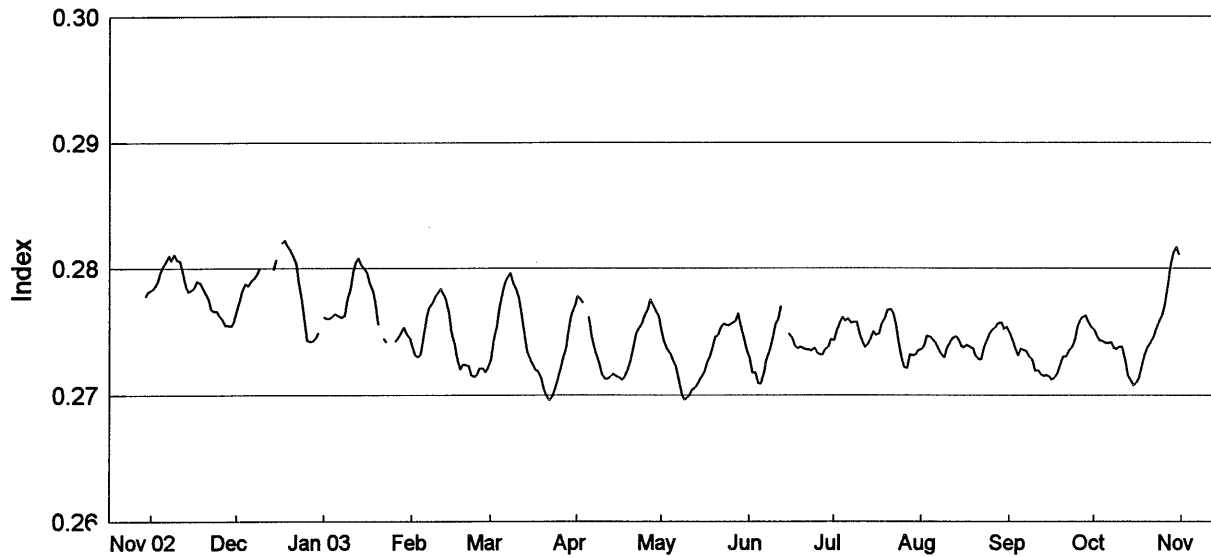
53  
Oct 03

OCTOBER 2003

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	DSF	1846	1945	S12	E02	10	1.9	3	06	0	0	E	HOLL	0470	
02	ADF	0952E	1020	S04	E59	10	6.9	1	04	9	9	V	KHAR		
02	APR	0952E	1038	N01	W90	09	25.6	1	08	9	9	V	KHAR		
02	ADF	1030	1110	S26	W11	10	1.6	1	06	9	9	V	KHAR		
02	BSL	1100	1110D	N01	W90	09	25.6	1	03	9	9	V	KHAR		
03	BSL	0902	0925	S02	W90	09	26.6	1	05	9	9	V	KHAR		
06	DSF	0906U	2247U	N36	W40	10	3.2		18	0	0	E	LEAR		
10	EPL	1106	1120	S25	W90	10	3.5	3		9	9	E	SVTO		
10	DSF	1548U	0534U	N09	W63	10	5.9		09	0	0	E	SVTO		
12	DSF	2119U	1442U	N48	W11	10	12.0		22	0	0	E	HOLL		
16	EPL	2246	2352	N01	E90	10	23.7	3		0	0	E	HOLL		
22	LPS	0042	0950	S18	E90	10	28.9			9	9	E	LEAR		Normal Emission 1/3
22	LPS	0042	0950	S18	E90	10	28.9	1		9	9	E	LEAR		Normal Emission 1/3
22	DSD	0215	0347	N03	E28	10	24.2		11	9	9	E	LEAR	0484	Flare Associated
22	BSL	0340	0436	S20	E90	10	29.0			9	9	E	LEAR		
22	DSF	1053U	1236U	N34	E26	10	24.5		15	0	0	E	SVTO		
22	DSF	1053U	1236U	S16	W41	10	19.3		22	0	0	E	SVTO		
22	LPS	1850E	0000	S17	E90	10	29.6			9	9	E	HOLL		
22	LPS	2228E	0950	S18	E90	10	29.8	1		9	9	E	LEAR	0486	
23	DSF	0719	2238U	N03	W60	10	18.8	3	23	0	0	E	LEAR		
23	LPS	1259E	1512	S20	E90	10	30.4	1		9	9	E	SVTO	0486	
23	LPS	1414E	1920	S17	E90	10	30.4			9	9	E	HOLL	0486	
23	LPS	2219E	0950	S17	E90	10	30.8			9	9	E	LEAR	0486	
23	DSF	2344U	1423U	S21	W54	10	19.8		22	0	0	E	HOLL		
25	DSF	2342U	1417U	S24	W41	10	22.8		10	0	0	E	HOLL		
26	EPL	0050E	0145D	S20	W90	10	19.1	3		0	0	E	LEAR		
26	DSF	0207	0324	S04	W65	10	21.2	3	14	0	0	E	LEAR		
26	DSF	0938U	0137U	S19	W58	10	22.0		07	0	0	E	LEAR		
26	DSF	0938U	0137U	S21	W37	10	23.6		22	0	0	E	LEAR		
26	DSF	1451U	0724U	N01	W54	10	22.6		09	0	0	E	SVTO		
26	DSF	1451U	0724U	S17	E39	10	29.6		19	0	0	E	SVTO		
26	DSF	2020U	1425U	S03	W57	10	22.6		12	0	0	E	HOLL		
26	DSF	2020U	1425U	S23	W44	10	23.4		18	0	0	E	HOLL		
28	SPY	1931	2130D	N01	E90	11	4.5			9	9	E	HOLL		
29	DSD	0730	0930	N08	W08	10	28.7		15	9	9	E	LEAR	0488	Flare Associated
30	BSL	0015	0059	S07	W90	10	23.3	3		9	9	E	LEAR	0484	
30	BSL	1212U	1225D	N03	W90	10	23.7	2	12	9	9	V	KHAR		
31	DSF	0935U	2238U	S12	W18	10	30.0		09	0	0	E	LEAR	0486	
31	DSD	0937	0954	N06	W33	10	28.9	1	07	9	9	V	KHAR		

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

Nov 2002 - Oct 2003  
Version 9.1

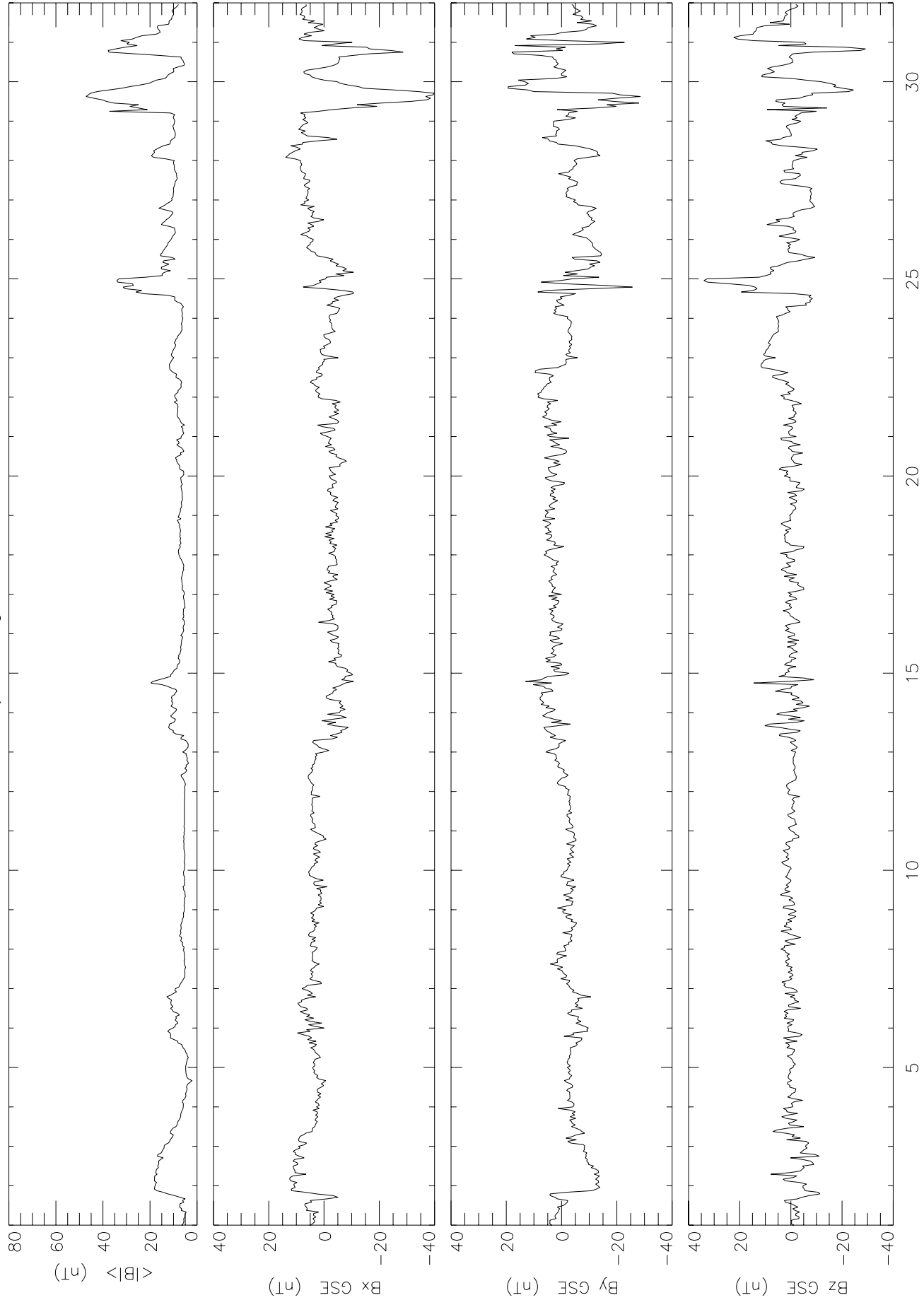


Day	Nov 02	Dec	Jan 03	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1	0.2783	0.2767	0.2761	0.2738	0.2728	0.2778	0.2749	0.2729	0.2743	0.2736	0.2749	0.2751
2	0.2785	0.2774	0.2760	0.2732	0.2743	0.2776	0.2741	0.2718	0.2751	0.2739	0.2744	0.2746
3	0.2789	0.2782	0.2760	0.2730	0.2754	0.2772	0.2736	0.2718	0.2756	0.2747	0.2736	0.2743
4	0.2796	0.2788	0.2762	0.2732	0.2769	---	0.2733	0.2710	0.2761	0.2746	0.2731	0.2743
5	0.2802	0.2786	0.2764	0.2745	0.2781	0.2761	0.2728	0.2709	0.2758	0.2744	0.2737	0.2741
6	0.2805	0.2790	0.2762	0.2761	0.2789	0.2747	0.2722	0.2717	0.2760	0.2741	0.2736	0.2741
7	0.2810	0.2792	0.2761	0.2769	0.2793	0.2738	0.2713	0.2728	0.2757	0.2736	0.2734	0.2742
8	0.2806	0.2795	0.2762	0.2772	0.2796	0.2730	0.2701	0.2735	0.2758	0.2732	0.2730	0.2737
9	0.2811	0.2800	0.2775	0.2777	0.2788	0.2724	0.2697	0.2743	0.2758	0.2730	0.2728	0.2737
10	0.2807	---	0.2784	0.2781	0.2784	0.2716	0.2698	0.2756	0.2749	0.2737	0.2720	0.2738
11	0.2806	---	0.2797	0.2784	0.2776	0.2713	0.2700	0.2759	0.2742	0.2741	0.2719	0.2738
12	0.2797	0.2785	0.2805	0.2780	0.2763	0.2713	0.2705	0.2770	0.2738	0.2745	0.2717	0.2728
13	0.2786	---	0.2808	0.2775	0.2746	0.2715	0.2706	---	0.2740	0.2746	0.2715	0.2717
14	0.2782	0.2799	0.2802	0.2765	0.2734	0.2717	0.2710	---	0.2743	0.2744	0.2716	0.2712
15	0.2783	0.2807	0.2800	0.2749	0.2728	0.2715	0.2714	0.2748	0.2750	0.2739	0.2715	0.2708
16	0.2785	---	0.2796	0.2740	0.2724	0.2714	0.2718	0.2745	0.2747	0.2738	0.2713	0.2710
17	0.2790	0.2820	0.2788	0.2729	0.2720	0.2712	0.2725	0.2739	0.2748	0.2740	0.2714	0.2714
18	0.2789	0.2822	0.2782	0.2720	0.2719	0.2714	0.2731	0.2737	0.2756	0.2738	0.2717	0.2723
19	0.2785	0.2817	0.2771	0.2724	0.2714	0.2720	0.2738	0.2738	0.2760	0.2737	0.2725	0.2732
20	0.2781	0.2814	0.2755	0.2724	0.2705	0.2726	0.2746	0.2737	0.2767	0.2731	0.2731	0.2738
21	0.2775	0.2810	---	0.2723	0.2699	0.2738	0.2747	0.2736	0.2768	0.2729	0.2731	0.2740
22	0.2768	0.2804	0.2744	0.2716	0.2696	0.2748	0.2754	0.2736	0.2765	0.2728	0.2735	0.2746
23	0.2766	0.2789	0.2741	0.2715	0.2699	0.2753	0.2756	0.2735	0.2757	0.2737	0.2737	0.2752
24	0.2766	0.2774	---	0.2716	0.2705	0.2756	0.2755	0.2737	0.2743	0.2743	0.2743	0.2758
25	0.2762	0.2758	---	0.2721	0.2712	0.2762	0.2755	0.2734	0.2729	0.2749	0.2753	0.2762
26	0.2759	0.2743	0.2742	0.2721	0.2721	0.2767	0.2757	0.2732	0.2723	0.2751	0.2759	0.2770
27	0.2755	0.2742	0.2745	0.2718	0.2730	0.2775	0.2758	0.2732	0.2721	0.2754	0.2762	0.2786
28	0.2755	0.2742	0.2748	0.2721	0.2736	0.2770	0.2764	0.2736	0.2732	0.2756	0.2763	0.2802
29	0.2754	0.2745	0.2753		0.2754	0.2766	0.2752	0.2738	0.2732	0.2757	0.2757	0.2811
30	0.2757	0.2749	0.2748		0.2764	0.2762	0.2745	0.2744	0.2732	0.2752	0.2753	0.2817
31		---	0.2745		0.2770		0.2736		0.2735	0.2754		0.2810
Mean	0.2783	0.2784	0.2768	0.2742	0.2743	0.2741	0.2732	0.2736	0.2748	0.2742	0.2734	0.2748

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

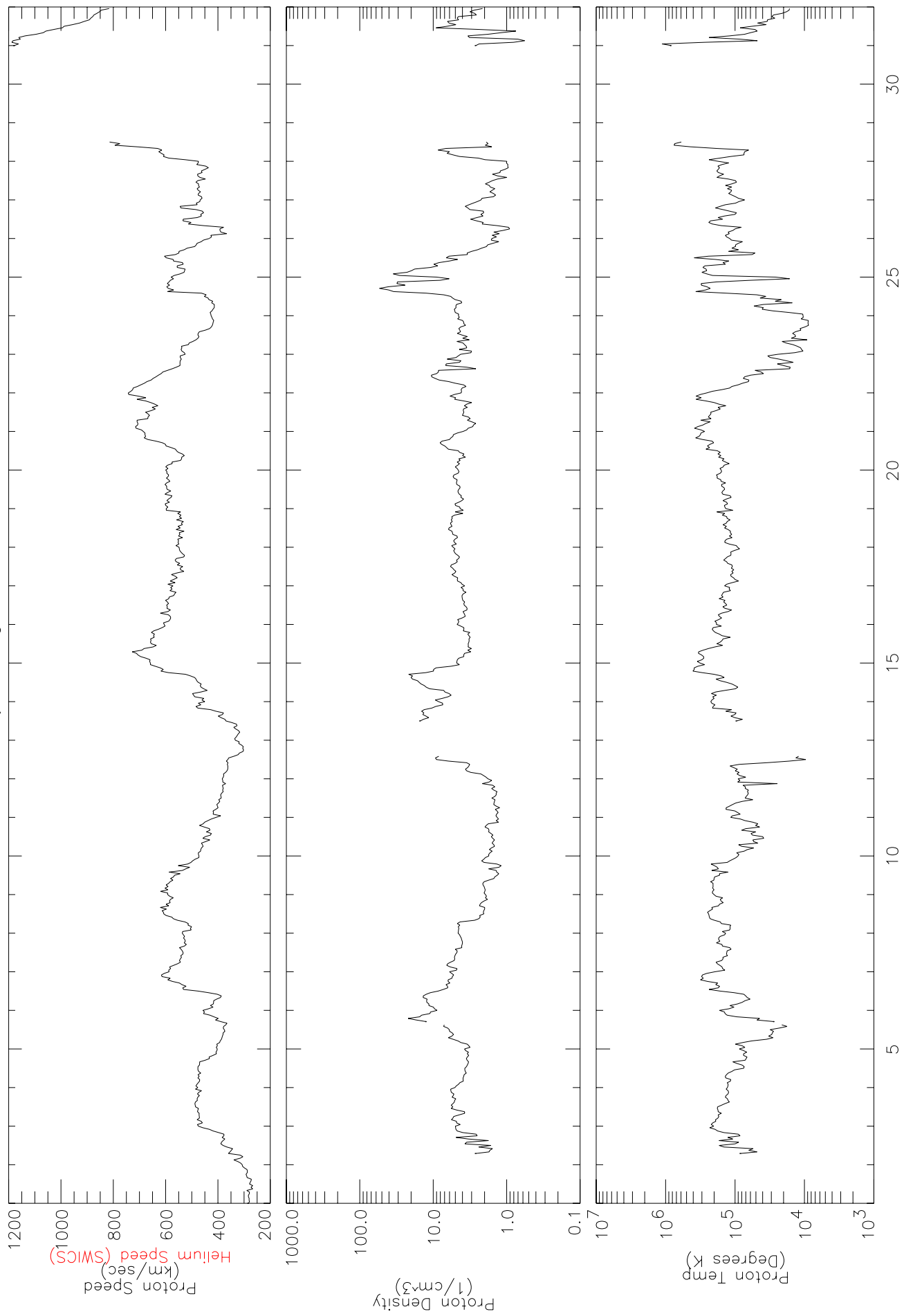


ACE LEVEL2 DATA Interplanetary Magnetic Field  
Hourly Averages for OCTOBER 2003, from MAG



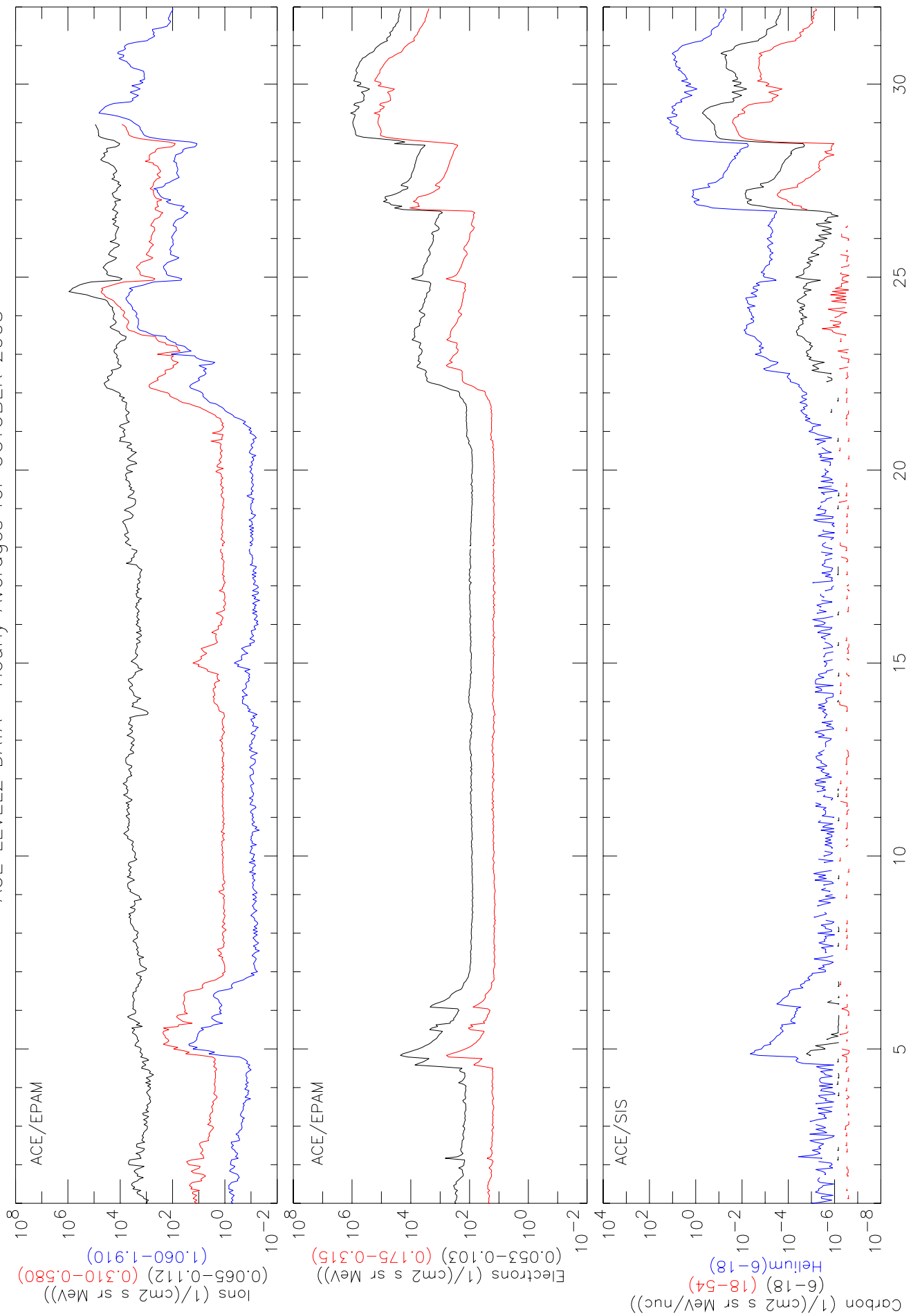
DAYS OF OCTOBER 2003

ACE LEVEL2 DATA Hourly Averages for OCTOBER 2003, from SWEFAM



DAYS OF OCTOBER 2003

Solar Energetic Particles  
ACE LEVEL2 DATA Hourly Averages for OCTOBER 2003



DAYS OF OCTOBER 2003