

JANUARY 2006 NUMBER 737 - Part II



Solar-Geophysical Data comprehensive reports

Data for July 2005 and Miscellaneous

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

NEW DATA:

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

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NATIONAL OCEANIC AND
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NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL
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BOULDER,
COLORADO



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NEW DATA:

ACE SOLAR WIND, INTERPLANETARY MAGNETIC FIELD AND PARTICLES

-- MONTHLY PLOTS

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Jul 05

H α SOLAR FLARES

JULY 2005

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
			01 0000		0013			No Flare Patrol											
			01 1623		1629			No Flare Patrol											
			01 1639		1648			No Flare Patrol											
			01 1653		1706			No Flare Patrol											
			01 1823		1845			No Flare Patrol											
			01 1903		1931			No Flare Patrol											
			01 2204		2218			No Flare Patrol											
0001	LEAR	02	0037	0039	0042	N12	E78	10786	07	7.9	5	SF		3	E		21		
0002	LEAR	02	0113	0114	0119	N12	E77	10786	07	7.8	6	SF		3	E		22		
0003	LEAR	02	0207	0208	0213	N12	E77	10786	07	7.9	6	SF		3	E		16		
0004	LEAR	02	0311	0314	0333	S18	E05	10785	07	2.5	22	SF		3	E		34		FU
0005	LEAR	02	0626	0639	0704	S18	E04	10785	07	2.6	38	SF		3	E		39		FU
0006	KANZ	02	0921	0923	0926	S18	E00	10785	07	2.4	5	SF		2	E				
0007		02	12346	12401	1253	S18	W00	10785	07	2.5	19	SF					15		
	KANZ	02	1234	1240	1302	S17	W01	10785	07	2.4	28	SF		2	E				
	SVTO	02	1240	1241	1244	S18	E00	10785	07	2.5	4	SF		3	E		15		
0008	HOLL	02	1901	1902	1905	S17	W05	10785	07	2.4	4	SF		3	E		13		F
0009		03	04491	0457	0519	S09	W39	10787	06	30.3	30	SF					100		FU
	SVTO	03	0449	0457	0519	S09	W39	10787	06	30.3	30	SF		1	E		132		UF
	LEAR	03	0450	0457	0519	S09	W39	10787	06	30.3	29	SF		3	E		68		UF
0010	SVTO	03	0953	0955	0958	S19	W32	10782	07	1.0	5	SF		3	E		14		
0011	HOLL	03	2106	2109	2124	S10	W46	10787	06	30.4	18	SF		3	E		28		F
0012	HOLL	04	2219	2221	2229	S11	W63	10787	06	30.2	10	SF		3	E		27		F
		05	0207		0416			No Flare Patrol											
0013	SVTO	05	0518	0518	0521	N15	E31	10786	07	7.6	3	SF		3	E		21		
0014	SVTO	05	0607	0610	0613	N15	E30	10786	07	7.5	6	SF		3	E		19		
		05	1134		1157			No Flare Patrol											
0015	SVTO	05	1500	1505	1545	S08	E34	10788	07	8.2	45	SF		3	E		40		FU
0016	HOLL	05	1516	1520	1524	S06	E38	10788	07	8.5	8	SF		3	E		14		FS
0017	HOLL	05	1501	1505	1513	S06	E39	10788	07	8.5	12	SF		3	E		46		FU
		05	1742		1828			No Flare Patrol											
0018	LEAR	06	0125	0126	0134	N15	E61	10789	07	10.7	9	SF		3	E		84		E
0019	LEAR	06	0307	0307	0315	N13	E20	10786	07	7.6	8	SF		3	E		14		
0020		06	08452	08471	0855	N11	E18	10786	07	7.7	10	SF					20		F
	KANZ	06	0845	0847	0856	N09	E19	10786	07	7.8	11	SF		2	E				
	SVTO	06	0846	0848	0855	N11	E20	10786	07	7.9	9	SF		3	E		26		F
	LEAR	06	0847	0847	0853	N13	E16	10786	07	7.6	6	SF		3	E		13		F
		06	0953		0955			No Flare Patrol											
		06	0959		1000			No Flare Patrol											
		06	1102		1106			No Flare Patrol											
0021		06	1300*	1318	1324	N10	E16	10786	07	7.7	24	SF					33		
	KANZ	06	1300	1318	1324	N09	E16	10786	07	7.7	24	SF		2	E				
	SVTO	06	1317	1318	1324	N10	E17	10786	07	7.8	7	SF		3	E		33		

H α SOLAR FLARES5
Jul 05

JULY 2005

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0022	SVTO	06	1301	1302	1304	N10	E17	10786	07	7.8	3	SF		3	E		14		
0023	SVTO	06	1305	1306	1311	N10	E17	10786	07	7.8	6	SF		3	E		46		FH
0024	SVTO	06	1529	1532	1536	N10	E16	10786	07	7.8	7	SF		3	E		24		F
0025		06	16041	16061	1612	N10	E16	10786	07	7.9	8	SF					34		EF
	SVTO	06	1604	1606	1614	N11	E16	10786	07	7.9	10	SF		3	E		49		FE
	HOLL	06	1605	1607	1610	N09	E15	10786	07	7.8	5	SF		3	E		18		FE
0026	HOLL	06	1746	1749	1755	N10	E14	10786	07	7.8	9	SF		3	E		58		F
		06	1933		1943	No Flare Patrol													
0027	HOLL	06	2123	2123	2132	N10	E12	10786	07	7.8	9	SF		3	E		17		FH
		07	0117		0402	No Flare Patrol													
0028		07	08001	08014	0813	N10	E06	10786	07	7.8	13	SF					20		
	LEAR	07	0800	0801	0811	N13	E04	10786	07	7.6	11	SF		3	E		25		
	SVTO	07	0801	0803	0814	N09	E07	10786	07	7.8	13	SF		3	E		16		
	KANZ	07	0802E	0805	0813	N09	E06	10786	07	7.8	11D	SF		2	E				
0029	LEAR	07	0840	0840	0851	N15	E43	10789	07	10.6	11	SF		3	E		11		
		07	0952		1013	No Flare Patrol													
0030		07	13271	1329	1339	N10	E04	10786	07	7.9	12	SF					43		EF
	HOLL	07	1327	1329	1343	N09	E03	10786	07	7.8	16	SF		3	E		56		FE
	SVTO	07	1328	1329	1335	N10	E04	10786	07	7.9	7	SF		3	E		30		F
0031	HOLL	07	1516	1516	1525	N17	E44	10789	07	11.0	9	SF		3	E		10		EF
0032		07	16102	16273	1714	N10	E00	10786	07	7.7	64	1N					190		FU
	HOLL	07	1610	1627	1722	N09	E03	10786	07	7.9	72	SN		3	E		133		UF
	SVTO	07	1612	1630	1706	N12	W03	10786	07	7.4	54	1N		3	E		248		F
0033	LEAR	08	0315	0316	0333	S02	W50	10783	07	4.4	18	SF		3	E		21		FH
0034	LEAR	08	0518	0518	0529	S02	W52	10783	07	4.3	11	SF		3	E		37		HU
0035	LEAR	08	0631	0631	0633	N15	E31	10789	07	10.6	2	SF		3	E		31		
0036	LEAR	08	0858	0858	0904	S02	W54	10783	07	4.3	6	SF		3	E		18		
		08	0943		1218	No Flare Patrol													
		08	1223		1230	No Flare Patrol													
0037	HOLL	08	1646	1648	1652	S03	W56	10783	07	4.5	6	SF		3	E		12		
		08	2223		2400	No Flare Patrol													
		09	0000		0011	No Flare Patrol													
		09	0029		1247	No Flare Patrol													
		09	1259		1306	No Flare Patrol													
		09	1658		1708	No Flare Patrol													
0038	HOLL	09	2028	2028	2034	N18	E16	10789	07	11.1	6	SF		3	E		14		F
0039	HOLL	09	2036	2040	2051	N18	E18	10789	07	11.2	15	SF		3	E		48		F
		09	2100		2144	No Flare Patrol													
0040	HOLL	09	2156	2204	2238	N11	W27	10786	07	7.9	42	1N		3	E		137		FU
		09	2210		2235	No Flare Patrol													
		09	2249		2400	No Flare Patrol													
		10	0000		1218	No Flare Patrol													
0041	HOLL	10	1515	1516	1519	S02	W83	10783	07	4.4	4	SF		3	E		23		

H α SOLAR FLARES

JULY 2005

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0042	HOLL	10	1918	1919	1923	N08	W43	10786	07	7.6	5	SF		3	E		18		
0043	HOLL	10	2015	2015	2018	N10	W42	10786	07	7.7	3	SF		3	E		12		F
		11	0115		0140	No Flare	Patrol												
		11	0156		0740	No Flare	Patrol												
		11	0851		0901	No Flare	Patrol												
		11	0920		0925	No Flare	Patrol												
		11	0934		1112	No Flare	Patrol												
		11	1114		1117	No Flare	Patrol												
		11	1131		1138	No Flare	Patrol												
		11	1144		1155	No Flare	Patrol												
		11	1158		1220	No Flare	Patrol												
		11	1400		1503	No Flare	Patrol												
0044	HOLL	11	1505	1508	1542	N08	W48	10786	07	8.0	37	SF		3	E		48		F
		11	1543		1556	No Flare	Patrol												
0045	HOLL	11	1716	1732	1741	N15	W56	10786	07	7.5	25	SF		3	E		40		F
		11	1835		1914	No Flare	Patrol												
0046	HOLL	11	2059	2059	2103	N12	W53	10786	07	7.9	4	SF		3	E		16		H
		11	2108		2220	No Flare	Patrol												
		11	2251		2316	No Flare	Patrol												
		11	2326		2329	No Flare	Patrol												
		12	0008		0014	No Flare	Patrol												
0047		12	0052	0055	0058	N13	W58	10786	07	7.6	6	SF					20		H
	LEAR	12	0052	0055	0058	N13	W58	10786	07	7.6	6	SF		3	E		19		
	HOLL	12	0052	0055	0058	N13	W57	10786	07	7.7	6	SF		3	E		20		H
		12	0150		0427	No Flare	Patrol												
		12	0610		0733	No Flare	Patrol												
		12	0753		0811	No Flare	Patrol												
0048	KANZ	12	0759	0805	0818	N07	W61	10786A07		7.8	19	1F		2	E				
		12	0820		0829	No Flare	Patrol												
		12	0840		0846	No Flare	Patrol												
		12	0930		1325	No Flare	Patrol												
0049	HOLL	12	1330	1330	1528D	N11	W64	10786	07	7.7	118D	SF		1	E		14		
		12	1333		1751	No Flare	Patrol												
0050	HOLL	12	1550E	1550U	1726D	N11	W64	10786	07	7.8	96D	SF		2	E		89		F
		12	1813		1839	No Flare	Patrol												
		12	1851		2019	No Flare	Patrol												
0051	HOLL	12	2022	2022	2025	N07	W74	10786	07	7.3	3	SF		3	E		19		
		12	2032		2055	No Flare	Patrol												
		12	2100		2145	No Flare	Patrol												
0052	HOLL	12	2129	2131U	2149	N10	W70	10786	07	7.6	20	SF		3	E		41		
0053	HOLL	12	2240	2252	2304	N08	W72	10786	07	7.5	24	SF		3	E		55		
0054		12	2336I	2338I	2342	N08	W69	10786	07	7.8	6	SF					50		FZ
	LEAR	12	2336	2339	2344	N09	W67	10786	07	7.9	8	SF		3	E		65		ZF
	HOLL	12	2337	2338	2340	N07	W71	10786	07	7.7	3	SF		3	E		35		
		13	0013		0109	No Flare	Patrol												
		13	0113		0120	No Flare	Patrol												

H α SOLAR FLARES7
Jul 05

JULY 2005

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0055	LEAR	13	0157	0159	0203	N14	W70	10786	07	7.8	6	SF		3	E		87		FZ
0056	LEAR	13	0319	0319	0323	N13	W71	10786	07	7.8	4	SF		3	E		15		FZ
			13 0340		0455	No Flare Patrol													
0057	LEAR	13	0544	0547	0620	N12	W74	10786	07	7.7	36	SF		3	E		38		UZ
0058	LEAR	13	0638	0638	0654	N13	W81	10786	07	7.2	16	SF		3	E		39		UZ
0059	LEAR	13	0915	0915	0920	N11	W74	10786	07	7.8	5	SF		3	E		25		FU
			13 0935		0937	No Flare Patrol													
			13 0941		0951	No Flare Patrol													
			13 0953		1001	No Flare Patrol													
			13 1008		1010	No Flare Patrol													
			13 1013		1016	No Flare Patrol													
			13 1021		1027	No Flare Patrol													
			13 1030		1032	No Flare Patrol													
			13 1038		1040	No Flare Patrol													
			13 1044		1045	No Flare Patrol													
			13 1100		1107	No Flare Patrol													
			13 1109		1112	No Flare Patrol													
			13 1134		1135	No Flare Patrol													
			13 1137		1144	No Flare Patrol													
			13 1149		1203	No Flare Patrol													
			13 1206		1210	No Flare Patrol													
			13 1212		1220	No Flare Patrol													
0060	HOLL	13	1254	1258	1300	N09	W75	10786	07	7.9	6	SF		3	E		23		H
0061	HOLL	13	1303	1308	1311	N10	W76	10786	07	7.8	8	SF		3	E		20		
			13 1403		1409	No Flare Patrol													
0062	HOLL	13	1422	1437	1458	N10	W80	10786	07	7.6	36	SF		3	E		26		F
			13 1450		1457	No Flare Patrol													
0063	HOLL	13	1624	1625	1628	N08	W78	10786	07	7.8	4	SF		3	E		29		FY
0064	HOLL	13	1857	1858	1900	N08	W80	10786	07	7.8	3	SF		3	E		18		F
0065	HOLL	13	1905	1908	1918	N13	W82	10786	07	7.6	13	1F		3	E		114		FY
			13 2103		2323	No Flare Patrol													
0066	LEAR	14	0320	0323	0329	N13	W86	10786	07	7.6	9	SF		3	E		39		FY
0067	LEAR	14	0723	0724	0732	N11	W73	10786	07	8.8	9	1N		3	E		147		FM
0068	LEAR	14	0759	0804	0812	N13	W88	10786	07	7.7	13	SF		3	E		82		
			14 1048		1055	No Flare Patrol													
			14 2120		2124	No Flare Patrol													
0069	HOLL	15	1946	1948	1953	S10	W66	10790	07	10.9	7	SF		3	E		10		F
			15 2248		2312	No Flare Patrol													
0070	HOLL	15	2325	2333	2338	S11	W69	10790	07	10.8	13	SF		3	E		24		F
			15 2348		2356	No Flare Patrol													
			16 0203		0357	No Flare Patrol													
0071	LEAR	16	0629	0630	0635	S10	W74	10790	07	10.7	6	SF		3	E		46		F
0072		16	11124	11191	1124	S09	W74	10790	07	10.9	12	SF					19		
	KANZ	16	1112	1120	1125	S10	W74	10790	07	10.9	13	SF		2	E				
	SVTO	16	1116	1119	1124	S08	W75	10790	07	10.8	8	SF		3	E		19		

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Jul 05

H α SOLAR FLARES

JULY 2005

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			16 1905		1912	No	Flare	Patrol											
			16 1919		2025	No	Flare	Patrol											
			16 2057		2112	No	Flare	Patrol											
			16 2131		2216	No	Flare	Patrol											
			16 2320		2400	No	Flare	Patrol											
			17 0000		0415	No	Flare	Patrol											
			18 0412		0414	No	Flare	Patrol											
			18 1945		2002	No	Flare	Patrol											
			18 2229		2235	No	Flare	Patrol											
			18 2254		2304	No	Flare	Patrol											
			19 2016		2327	No	Flare	Patrol											
			19 2334		2400	No	Flare	Patrol											
			20 0000		0041	No	Flare	Patrol											
			20 0136		0415	No	Flare	Patrol											
			20 0418		0422	No	Flare	Patrol											
			20 2049		2053	No	Flare	Patrol											
			20 2127		2136	No	Flare	Patrol											
			21 0201		0410	No	Flare	Patrol											
			21 1812		1851	No	Flare	Patrol											
			21 2016		2109	No	Flare	Patrol											
			21 2201		2343	No	Flare	Patrol											
			22 0339		0343	No	Flare	Patrol											
			22 0354		0407	No	Flare	Patrol											
			22 1542		1605	No	Flare	Patrol											
			22 1725		1935	No	Flare	Patrol											
			22 2041		2102	No	Flare	Patrol											
			22 2129		2344	No	Flare	Patrol											
			23 1957		2001	No	Flare	Patrol											
			23 2152		2212	No	Flare	Patrol											
			23 2234		2326	No	Flare	Patrol											
			24 1855		2054	No	Flare	Patrol											
			24 2111		2127	No	Flare	Patrol											
			24 2143		2147	No	Flare	Patrol											
			24 2244		2256	No	Flare	Patrol											
			25 0106		0143	No	Flare	Patrol											
			25 1749		1827	No	Flare	Patrol											
			25 2059		2110	No	Flare	Patrol											
			25 2142		2159	No	Flare	Patrol											
			25 2208		2218	No	Flare	Patrol											
			25 2225		2302	No	Flare	Patrol											
			26 1322		1426	No	Flare	Patrol											
			26 1608		1809	No	Flare	Patrol											
			26 2041		2048	No	Flare	Patrol											
			26 2122		2148	No	Flare	Patrol											
			26 2211		2302	No	Flare	Patrol											
			27 1850		1855	No	Flare	Patrol											
			27 2053		2107	No	Flare	Patrol											
			27 2245		2253	No	Flare	Patrol											
			27 2300		2304	No	Flare	Patrol											
0073	HOLL	28	2151	2200	2221	N08	E84	10792	08	4.2	30	SF		3	E		70		FH
			29 2031		2042	No	Flare	Patrol											
			29 2100		2125	No	Flare	Patrol											
			29 2240		2245	No	Flare	Patrol											
			29 2257		2314	No	Flare	Patrol											
0074	SVTO	30	0501	0502	0504	N12	E60	10792	08	3.7	3	SF		3	E		16		F
0075		30	05074	05134	0548	N12	E52	10792	08	3.1	41	1N					107		FU
	LEAR	30	0507	0517	0605	N12	E54	10792	08	3.3	58	1N		3	E		153		UF
	SVTO	30	0511	0513	0532	N12	E51	10792	08	3.0	21	SF		3	E		61		F
0076		30	0608*	06251	0823	N11	E59	10792	08	3.7	135	2N					386		UZ
	LEAR	30	0608	0625	0940	N12	E61	10792	08	3.8	212	2B		3	E		390		ZU
	SVTO	30	0622	0626	0723	N11	E58	10792	08	3.6	61	2F		3	E		383		U
	KANZ	30	0628E	0630U	0805	N11	E57	10792	08	3.5	97D	2B		2	E				
0077	HOLL	30	1352	1353	1355	N13	E54	10792	08	3.6	3	2F		3	E		553		

JULY 2005

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0078		30	1649	1700	1724	N13	E56	10792	08	3.9	35	SF					48		EF
	HOLL	30	1649	1700	1724	N14	E57	10792	08	4.0	35	SF		3	E		45		FE
	SVTO	30	1654E	1654U	1718D	N12	E56	10792	08	3.9	24D	SF		2	E		51		F
		30	1752		1801														
		30	1821		1838														
		30	1842		1926														
		30	1935		1956														
		30	2043		2144														
		30	2221		2242														
		30	2246		2312														
		30	2326		2338														
0079	LEAR	31	0536	0540	0543	N12	W51	10791	07	27.4	7	SF		3	E		15		
0080		31	09164	09222	0938	N13	W51	10791	07	27.5	22	SF					136		FU
	LEAR	31	0916	0924	0944D	N12	W53	10791	07	27.4	28D	1F		3	E		187		F
	KANZ	31	0919U	0919U	0923U	N13	W49	10791	07	27.7	4U	SF		2	E				
	SVTO	31	0920	0922	0938	N14	W51	10791	07	27.5	18	SF		3	E		86		U
0081	KANZ	31	1219E	1220	1230	N12	E44	10792	08	3.8	11D	SB		2	E				
		31	1738		1747														
		31	1903		1935														
		31	1942		2027														
		31	2125		2148														

"Remarks"

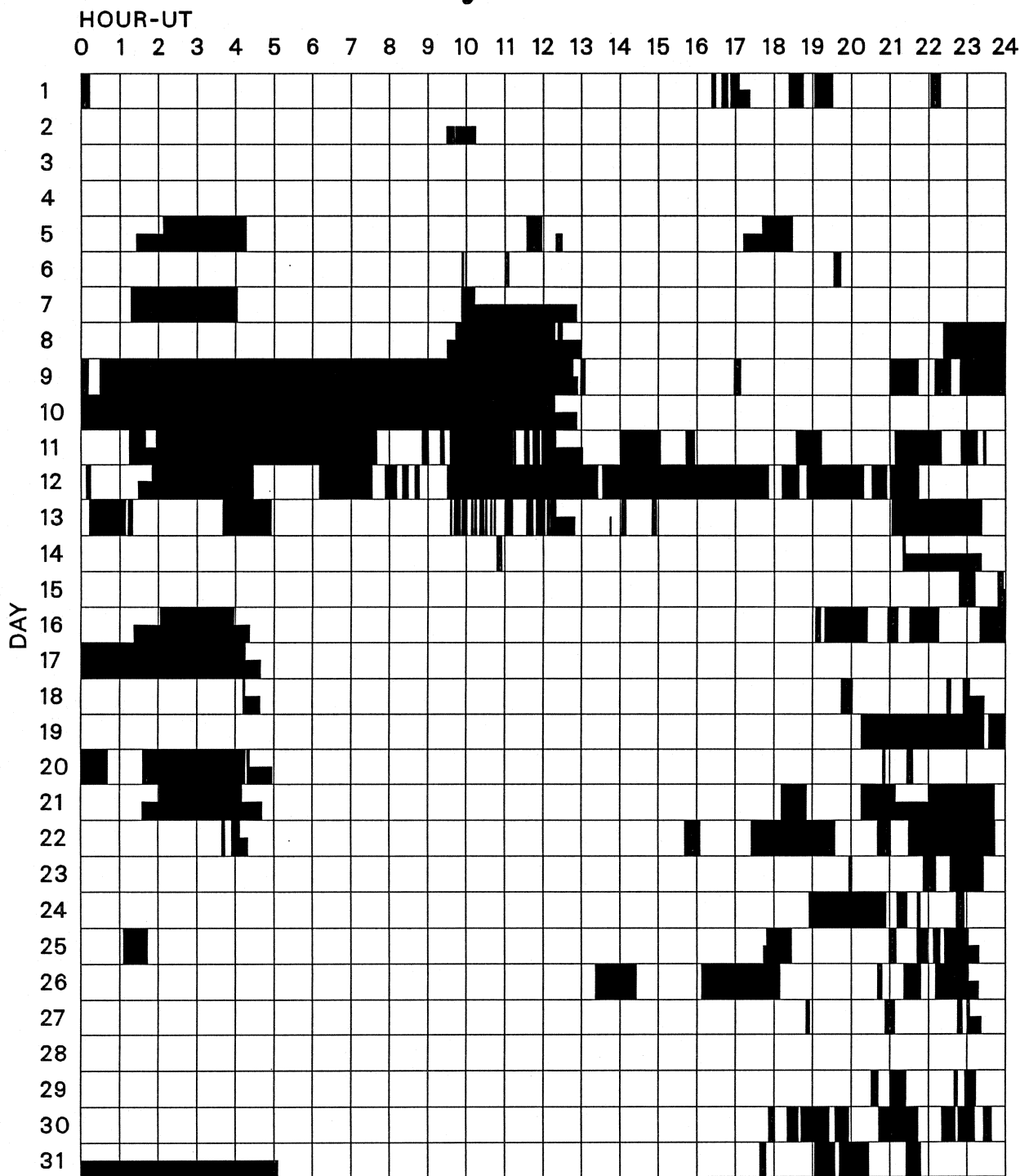
A = Eruptive prominence whose base is less than 90 degrees from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows Helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

JULY 2005



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

Holloman
Kanzelhoehe

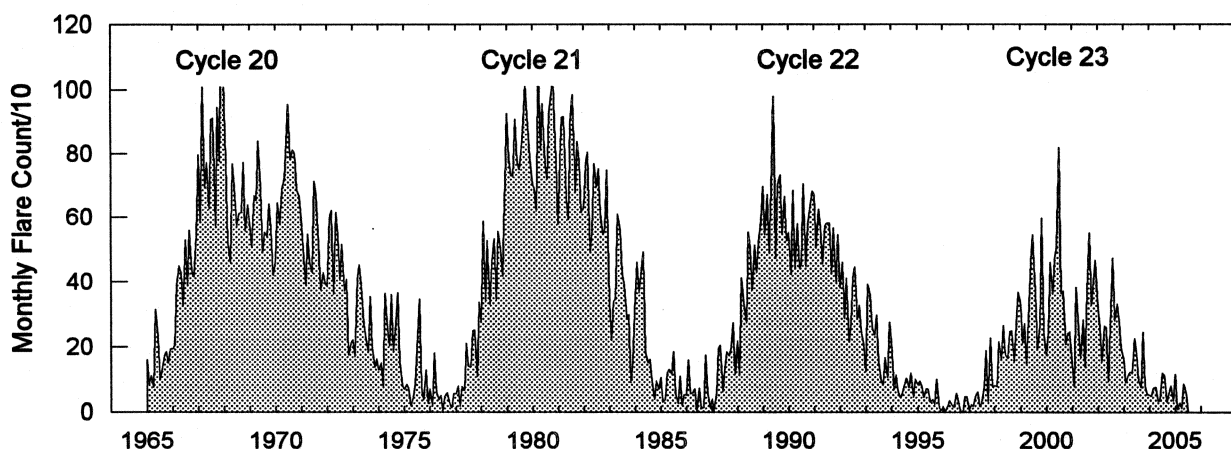
Learmonth
Kharkov

San Vito

Monthly Counts of Grouped Solar Flares

Jan 1965 - Jul 2005

Ji



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14	6	639
1996	14	3	15	34	21	16	54	31	3	0	44	45	280
1997	8	22	18	43	59	18	26	75	188	31	228	74	790
1998	78	76	216	161	264	177	164	248	249	155	268	367	2423
1999	330	212	271	145	330	466	544	368	192	264	598	243	3963
2000	175	248	462	362	473	505	818	364	372	208	241	246	4474
2001	147	77	383	284	164	282	137	376	549	325	405	468	3597
2002	318	261	155	263	259	91	318	474	280	329	279	196	3223
2003	164	87	112	122	117	226	181	94	73	245	78	53	1552
2004	49	47	71	72	32	33	118	112	30	54	76	34	728
2005	114	10	28	11	82	56	81						382

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

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Jul 05

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

JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
01	2840	PEKG	1 S	0239.0	0240.6	5.0	6.7			
	2840	PEKG	3 S	0456.0	0459.8	10.0	21.5			
	15400	SVTO	4 S/F	0457.0	0500.0	3.0	58.0			QL=4 ST=2 TYP=3
	2800	HIRA	7 C	0458.0	0500.0	5.0	40.0			0
	245	LEAR	8 S	0458.0	0458.0	U	220.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0458.0	0458.0	U	220.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	0458.0	0458.0	2.0	220.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0458.0	0458.0	1.0	41.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0458.0	0459.0	3.0	95.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0458.0	0459.0	3.0	81.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0458.1	0459.1	4.6	47.0			
	2950	GORK	46 C	0458.1	0501.6		11.0			
	9100	GORK	46 C	0458.1	0459.7		70.0			
	2950	GORK	46 C	0458.1	0459.8		29.0			
	2950	GORK	46 C	0458.1	0458.9	4.9	12.0			
	4995	LEAR	8 S	0459.0	0459.0	U	78.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0459.0	0459.0	U	78.0			QL=4 ST=3 TYP=3
	8800	LEAR	8 S	0459.0	0459.0	U	65.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0459.0	0459.0	U	65.0			QL=4 ST=3 TYP=3
	2695	SVTO	4 S/F	0459.0	0459.0	3.0	51.0			QL=4 ST=2 TYP=3
	33	UPIC	8 S	1017.0	1017.5	1.0				
	245	SGMR	8 S	1448.0	1448.0	U	74.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1448.0	1448.0	U	74.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1506.0	1506.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1506.0	1506.0	U	130.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1514.0	1514.0	1.0	230.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1514.0	1514.0	1.0	230.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1525.0	1525.0	U	77.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1525.0	1525.0	U	77.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1531.0	1531.0	U	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1531.0	1531.0	U	150.0			QL=4 ST=3 TYP=3
02	410	LEAR	43 NS	0230.0	0510.0	365.0	77.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	0250.0	0253.0	87.0	66.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	0250.0	0251.0	1270.0	59.0			QL=4 ST=1 TYP=1
	410	PALE	43 NS	0250.0	0253.0	1270.0	66.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	0522.0	0824.0	1118.0	140.0			QL=4 ST=3 TYP=1
	127	TORN	44 NS	0630.0E		510.00		40.0		V=2
	245	SGMR	43 NS	0933.0	1454.0	377.0	130.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	0933.0	1148.0	867.0	100.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	0933.0	1454.0	867.0	130.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	0933.0	1051.0U	867.0	67.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1939.0	2008.0	186.0	78.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	2000.0	2000.0	45.0	59.0			QL=4 ST=2 TYP=1
	410	LEAR	8 S	0220.0	0222.0	2.0	53.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0352.0	0352.0	U	76.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0359.0	0359.0	U	55.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0359.0	0359.0	1.0	73.0			QL=4 ST=2 TYP=3
	900	GORK	40 F	0404.7	0423.6	82.3	28.0			
	245	PALE	8 S	0416.0	0416.0	U	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0506.0	0506.0	U	64.0			QL=4 ST=2 TYP=3
	2950	GORK	7 C	0626.3	0626.6	3.3	3.1			
	2950	GORK	7 C	0626.3	0627.8		4.1			
	900	GORK	40 F	0627.7	0629.6	2.3	16.0			
	2950	GORK	7 C	0632.2	0634.1		3.1			
	2950	GORK	7 C	0632.2	0632.8	2.6	2.1			
	9100	GORK	20 GRF	0920.4	0931.4	17.6	9.2			
	2950	GORK	23 GRF	0921.9	0932.2		6.2			
	2950	GORK	23 GRF	0921.9	0925.9	18.4	5.2			
	2840	PEKG	3 S	0923.0	0928.9	15.0	16.2			
	900	GORK	46 C	0924.1	0929.0		9.4			
	900	GORK	46 C	0924.1	0928.4	6.0	11.0			
	2950	GORK	46 C	0927.7	0928.6	2.3	9.4			
	2950	GORK	46 C	0927.7	0928.9		10.0			
	410	LEAR	8 S	0928.0	0928.0	U	190.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0928.0	0928.0	U	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1219.0E	1219.0U	1.00	320.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1416.0E	1416.0U	U	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1938.0	1938.0	U	160.0			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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JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
02	410	PALE	8 S	1939.0	1939.0	U	330.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1947.0	1947.0	U	72.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1951.0	1951.0	U	61.0			QL=4 ST=2 TYP=3
03	127	TORN	44 NS	0630.0E		510.0D		10.0		V=2
	245	LEAR	43 NS		0735.0	57.0	160.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	0934.0	1217.0	369.0	150.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	0934.0	1050.0U	866.0	59.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	0934.0	1105.0U	866.0	62.0			QL=4 ST=1 TYP=1
	245	PALE	8 S	0251.0	0251.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0251.0	0251.0	U	100.0			QL=4 ST=3 TYP=3
	2950	GORK	21 GRF	0431.0	0526.6	188.0	13.0			
	9100	GORK	20 GRF	0440.0	0601.0	215.0	15.0			
	2950	GORK	46 C	0446.5	0454.7		8.6			
	2950	GORK	46 C	0446.5	0449.9	14.5	8.6			
	900	GORK	46 C	0450.3	0455.3		12.0			
	900	GORK	46 C	0450.3	0451.9	6.5	20.0			
	245	LEAR	8 S	0612.0	0612.0	U	290.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0708.0	0709.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0711.0	0711.0	U	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0735.0	0736.0	2.0	140.0			QL=4 ST=2 TYP=3
	900	GORK	4 S/F	0945.6	0946.1	2.2	14.0			
	2840	PEKG	3 S	0946.0	0949.1	11.0	12.7			
	2950	GORK	3 S	0948.4	0949.1	2.0	14.0			
	245	SGMR	8 S	2030.0	2030.0	U	53.0			QL=4 ST=2 TYP=3
04	127	TORN	44 NS	1250.0E		130.0D		12.0		V=0
	245	LEAR	8 S	0513.0	0513.0	U	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0513.0	0513.0	U	51.0			QL=4 ST=2 TYP=3
	2950	GORK	3 S	0744.3	0744.8	1.2	6.4			
	33	UPIC	2 S/F	0745.0	0745.7	1.0				
	900	GORK	2 S/F	0745.7	0745.8	0.3	8.1			
	410	SGMR	8 S	1323.0	1323.0	U	130.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1323.0	1323.0	U	29.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1600.0	1600.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1943.0	1943.0	U	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1947.0	1947.0	U	51.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2055.0	2055.0	U	56.0			QL=4 ST=2 TYP=3
05	245	PALE	43 NS	0017.0	0113.0	253.0	98.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0017.0	0017.0	1423.0	54.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0017.0	0017.0	1423.0	54.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	0059.0	0111.0	42.0	110.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0059.0	0111.0	42.0	110.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	0059.0	0059.0	1381.0	83.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	0059.0	0111.0	1381.0	110.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	0846.0	0847.0	9.0	63.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1715.0	1715.0	199.0	130.0			QL=4 ST=2 TYP=1
	245	PALE	8 S	0007.0	0007.0	U	68.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0847.0	0847.0	2.0	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0939.0	0939.0	U	55.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0954.5	0955.5		6.7			
	900	GORK	41 F	0954.5	0954.7	3.5	2.7			
	2840	PEKG	5 S	0955.0	0957.2	8.0	14.3			
	2950	GORK	46 C	0956.6	0958.1		7.4			
	2950	GORK	46 C	0956.6	0957.3	2.4	11.0			
	610	SGMR	8 S	1508.0	1508.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1523.0	1525.0	11.0	37.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	1524.0	1530.0	7.0	230.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	1525.0	1530.0	7.0	220.0			QL=4 ST=2 TYP=8
	610	SGMR	8 S	1529.0	1530.0	2.0	99.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1530.0	1530.0	U	66.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1541.0	1541.0	3.0	61.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1541.0	1541.0	3.0	65.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1543.0	1543.0	1.0	43.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1714.0	1714.0	1.0	93.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1715.0	1715.0	U	87.0			QL=4 ST=2 TYP=3
06	127	TORN	44 NS	0630.0E		510.0D		12.0		V=1

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

Outstanding Occurrences

JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
06	245	LEAR	43 NS	2322.0	0307.0	38.0	69.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2322.0	0307.0	313.0	69.0			QL=4 ST=2 TYP=1
	2950	GORK	20 GRF	0617.5	0621.5	29.0	8.4			
	2840	PEKG	5 S	0844.0	0846.2	7.0	45.4			
	2950	GORK	46 C	0844.8	0846.1	3.6	44.0			
	2950	GORK	46 C	0844.8	0846.8		45.0			
	9100	GORK	4 S/F	0845.4	0846.7	5.6	110.0			
	2800	HIRA	1 S	0846.0	0847.0	2.0	10.0			
	8800	LEAR	8 S	0846.0	0846.0	1.0	110.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0846.0	0846.0	1.0	97.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0846.0	0846.0	U	26.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0846.0	0846.0	1.0	67.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0846.0	0846.0	1.0	97.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0846.0	0846.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1300.0	1300.0	U	56.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1300.0	1300.0	U	29.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1300.0	1300.0	U	38.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1300.0	1300.0	U	23.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1300.0	1300.0	U	50.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1300.0	1300.0	U	25.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1300.0	1300.0	U	35.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1300.0	1300.0	U	66.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1300.0	1300.0	U	49.0			QL=4 ST=2 TYP=3
	33	UPIC	4 S/F	1300.0	1301.0	2.2				
	245	SGMR	8 S	1413.0	1413.0	U	57.0			QL=4 ST=3 TYP=3
	4995	SGMR	8 S	1747.0	1747.0	U	29.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1747.0	1747.0	U	69.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1747.0	1747.0	U	38.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1747.0	1747.0	U	31.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1747.0	1747.0	U	76.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1747.0	1747.0	U	32.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1924.0	1924.0	U	57.0			QL=4 ST=2 TYP=3
07	245	SVTO	43 NS	0533.0	0741.0	386.0	310.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0533.0	0539.0	1107.0	100.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0533.0	0628.0	1107.0	160.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0533.0	0739.0	1107.0	160.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0533.0	0740.0	1107.0	230.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0533.0	0741.0	1107.0	310.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	0539.0	0741.0	186.0	380.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0539.0	0539.0	1101.0	120.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0539.0	0628.0	1101.0	200.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0539.0	0740.0	1101.0	260.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0539.0	0741.0	1101.0	380.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0630.0E		510.0D		130.0		V=1
	245	SGMR	43 NS	0936.0	1101.0	153.0	75.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	0936.0	1101.0U	864.0	75.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1307.0	1458.0	267.0	510.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1307.0	1458.0	267.0	510.0			QL=4 ST=3 TYP=1
	410	SGMR	43 NS	1356.0	1425.0	169.0	170.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1356.0	1434.0	261.0	450.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	1358.0	1425.0	216.0	280.0			QL=2 ST=2 TYP=1
	410	SVTO	44 NS	1358.0E	1425.0	216.0D	280.0			QL=2 ST=3 TYP=1
	245	PALE	43 NS	1718.0	1857.0	122.0	300.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1718.0	1718.0	402.0	51.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1718.0	1810.0	402.0	82.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	2129.0	2129.0	44.0	75.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2322.0	0307.0	313.0	69.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0533.0	0533.0	1.0	100.0			QL=4 ST=2 TYP=3
	2950	GORK	1 S	0540.2	0540.6	1.8	3.0			
	2950	GORK	7 C	0704.5	0705.3	1.5	4.1			
	2950	GORK	7 C	0704.5	0705.5		4.1			
	245	SGMR	8 S	1116.0E	1116.0U	U	93.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1215.0	1215.0	U	51.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1238.5	1239.0	4.5				
	610	SVTO	48 C	1241.0E	1259.0	48.0D	1200.0			QL=2 ST=2 TYP=8
	610	SVTO	48 C	1241.0E	1259.0	48.0D	1200.0			QL=2 ST=3 TYP=8
	410	SGMR	48 C	1243.0	1251.0	73.0	6400.0			QL=2 ST=2 TYP=8
	410	SVTO	48 C	1243.0E	1251.0	74.0D	4400.0			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

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JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
07	410	SVTO	48 C	1243.0E	1251.0	74.0D	4400.0			QL=2 ST=3 TYP=8
	610	SGMR	48 C	1244.0	1252.0	38.0	900.0			QL=4 ST=2 TYP=8
	245	SVTO	4 S/F	1252.0	1253.0	7.0	72.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1253.0	1355.0	63.0	190.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	1609.0	1621.0	29.0	160.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1610.0	1620.0	22.0	140.0			QL=4 ST=2 TYP=8
	610	SGMR	4 S/F	1611.0	1617.0	17.0	190.0			QL=4 ST=2 TYP=3
	610	SGMR	48 C	1611.0	1646.0	36.0	550.0			QL=4 ST=2 TYP=8
	33	UPIC	47 GB	1611.5	1612.5	115.0				
	245	SVTO	48 C	1612.0	1621.0	32.0	1300.0			QL=2 ST=2 TYP=8
	245	SVTO	48 C	1612.0	1621.0	32.0	1300.0			QL=2 ST=3 TYP=8
	8800	SVTO	4 S/F	1612.0	1621.0	468.0	66.0			QL=4 ST=1 TYP=3
	245	SVTO	48 C	1612.0E	1621.0U	32.0D	1300.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1613.0E	1621.0U	31.0D	1400.0			QL=4 ST=2 TYP=8
	1415	SVTO	48 C	1614.0	1621.0	29.0	150.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	1614.0	1623.0	30.0	290.0			QL=2 ST=2 TYP=8
	410	SVTO	48 C	1614.0	1623.0	30.0	290.0			QL=2 ST=3 TYP=8
	410	SVTO	48 C	1614.0E	1623.0U	30.0D	290.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1615.0	1620.0	13.0	160.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1615.0	1628.0	18.0	180.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1615.0	1620.0	32.0	160.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	1615.0	1635.0	30.0	350.0			QL=2 ST=2 TYP=8
	610	SVTO	48 C	1615.0	1635.0	30.0	350.0			QL=2 ST=3 TYP=8
	1415	SGMR	48 C	1615.0	1620.0	465.0	160.0			QL=4 ST=1 TYP=8
	1415	SGMR	4 S/F	1615.0	1620.0	465.0	160.0			QL=4 ST=1 TYP=3
	410	SGMR	48 C	1615.0E	1623.0U	23.0D	300.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	1615.0E	1635.0U	30.0D	350.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1616.0	1628.0	17.0	160.0			QL=4 ST=2 TYP=8
	15400	SVTO	4 S/F	1616.0	1621.0	464.0	59.0			QL=4 ST=1 TYP=3
	8800	SGMR	20 GRF	1617.0	1628.0	20.0	100.0			QL=4 ST=2 TYP=2
	8800	SGMR	4 S/F	1617.0	1620.0	463.0	82.0			QL=4 ST=1 TYP=3
	15400	SGMR	20 GRF	1620.0	1629.0	24.0	89.0			QL=4 ST=2 TYP=2
	8800	SVTO	4 S/F	1621.0	1626.0	8.0	74.0			QL=4 ST=2 TYP=3
	15400	SVTO	48 C	1621.0	1626.0	17.0	87.0			QL=4 ST=2 TYP=8
	410	PALE	8 S	1739.0	1739.0	U	51.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1749.0	1749.0	U	55.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2018.0	2018.0	U	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2020.0	2020.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2257.0	2257.0	U	100.0			QL=4 ST=2 TYP=3
08	245	LEAR	43 NS	0053.0	0054.0	1387.0	58.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	0053.0	0300.0	1387.0	70.0			QL=4 ST=1 TYP=1
	127	TORN	44 NS	0630.0E		510.0D		27.0		V=1
	2950	GORK	23 GRF	0503.6	0551.0		3.1			
	2950	GORK	23 GRF	0503.6	0540.2		4.1			
	2950	GORK	23 GRF	0503.6	0520.6	49.1	7.2			
	9100	GORK	2 S/F	0516.9	0518.0	5.1	7.7			
	2950	GORK	4 S/F	0517.6	0518.6	3.1	7.2			
	2950	GORK	2 S/F	0641.7	0644.8	5.6	5.1			
	245	SVTO	8 S	1450.0	1450.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1600.0	1632.0	67.0	280.0			QL=4 ST=2 TYP=8
	410	SGMR	8 S	1601.0	1601.0	U	51.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	1601.0	1646.0	67.0	200.0			QL=2 ST=2 TYP=8
	410	SVTO	48 C	1601.0	1625.0	479.0	160.0			QL=4 ST=1 TYP=8
	410	SGMR	8 S	1607.0	1609.0	2.0	62.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1608.0	1609.0	1.0	62.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1608.0	1609.0	1.0	76.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	1608.0	1628.0	37.0	86.0			QL=4 ST=2 TYP=8
	1415	SVTO	4 S/F	1608.0	1609.0	472.0	76.0			QL=4 ST=1 TYP=3
	410	SGMR	4 S/F	1616.0	1629.0	44.0	150.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1627.0	1630.0	4.0	65.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	1628.0	1637.0	35.0	200.0			QL=2 ST=3 TYP=8
	245	PALE	48 C	1628.0	1637.0	452.0	200.0			QL=4 ST=1 TYP=8
	410	PALE	4 S/F	1632.0	1646.0	30.0	150.0			QL=2 ST=3 TYP=3
	410	PALE	4 S/F	1632.0	1637.0	448.0	110.0			QL=4 ST=1 TYP=3
	245	SGMR	4 S/F	1632.0	1634.0U	31.0	160.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1802.0	1802.0	U	58.0			QL=4 ST=2 TYP=3
09	245	LEAR	8 S	0008.0	0008.0	U	52.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
09	245	LEAR	8 S	0411.0	0411.0	U	190.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0411.0	0411.0	1.0	150.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	0948.0	1001.0	21.0	810.0			QL=2 ST=2 TYP=8
	410	SVTO	48 C	0951.0	0958.0	16.0	210.0			QL=4 ST=2 TYP=8
	2950	GORK	3 S	1018.9	1021.4	3.8	8.3			
	2950	GORK	3 S	1018.9	1021.4	3.8	8.3			
	2950	GORK	29 PBI	1022.7	1022.7	6.3	3.0			
	2950	GORK	29 PBI	1022.7	1022.7	6.3	3.0			
	33	UPIC	45 C	1035.0	1036.5	2.0				
	33	UPIC	46 C	1052.0	1053.0	3.0				
	245	SVTO	8 S	1054.0	1054.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1240.0	1240.0	U	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1240.0	1240.0	U	82.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1315.0	1317.0	3.0	7700.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1316.0	1317.0	3.0	7700.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1317.0	1317.0	2.0	4400.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1317.0	1317.0	2.0	490.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1317.5	1318.0	2.0				
	245	SVTO	4 S/F	1339.0	1342.0	4.0	81.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1339.0	1341.0	5.0				
	245	SGMR	8 S	1342.0	1342.0	U	68.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1721.0	1721.0	U	96.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1721.0	1721.0	U	91.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1755.0	1755.0	U	56.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1755.0	1755.0	U	22.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1802.0	1802.0	1.0	71.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1803.0	1803.0	U	330.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1803.0	1803.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1803.0	1803.0	U	280.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1935.0	1938.0	3.0	530.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	1936.0	1938.0	2.0	590.0			QL=4 ST=2 TYP=8
	610	SGMR	8 S	1936.0	1938.0	2.0	85.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1938.0	1938.0	U	190.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1938.0	1938.0	U	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1938.0	1938.0	U	130.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2036.0	2037.0	9.0	55.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2039.0	2040.0	2.0	71.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2039.0	2039.0	2.0	36.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2039.0	2040.0	8.0	63.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	2040.0	2041.0	3.0	61.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2043.0	2043.0	U	77.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2045.0	2045.0	1.0	86.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2046.0	2046.0	1.0	90.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2128.0	2129.0	1.0	230.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2128.0	2128.0	2.0	230.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2130.0	2131.0	1.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2139.0	2139.0	U	55.0			QL=4 ST=2 TYP=3
	2800	PENT	8 S	2147.0	2209.0	22.0	2778.0			
	2800	HIRA	47 GB	2148.0	2208.0	43.0	1145.0			0
	610	PALE	48 C	2149.0	2213.0	24.0	10000.0			QL=4 ST=3 TYP=8
	610	PALE	48 C	2149.0	2214.0	31.0	12000.0			QL=4 ST=2 TYP=8
	410	PALE	49 GB	2150.0	2208.0	27.0	9300.0			QL=4 ST=2 TYP=6
	610	SGMR	48 C	2150.0	2213.0	29.0	12000.0			QL=4 ST=2 TYP=8
	410	SGMR	49 GB	2150.0E	2207.0	29.0D	8100.0			QL=2 ST=2 TYP=6
	4995	SGMR	48 C	2150.0	2206.0	33.0	1600.0			QL=4 ST=2 TYP=8
	2695	SGMR	49 GB	2150.0	2208.0	31.0	1600.0			QL=4 ST=2 TYP=6
	410	PALE	49 GB	2151.0	2208.0	22.0	9300.0			QL=4 ST=3 TYP=6
	4995	PALE	48 C	2152.0	2206.0	21.0	1700.0			QL=4 ST=3 TYP=8
	245	SGMR	48 C	2152.0	2209.0	26.0	1100.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	2152.0	2206.0	33.0	1700.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	2152.0	2206.0	128.0	1700.0			QL=4 ST=1 TYP=8
	4995	PALE	4 S/F	2152.0	2157.0	128.0	190.0			QL=4 ST=1 TYP=3
	245	PALE	48 C	2153.0	2208.0	20.0	1200.0			QL=4 ST=3 TYP=8
	245	PALE	48 C	2153.0	2208.0	25.0	1200.0			QL=4 ST=2 TYP=8
	2695	PALE	49 GB	2155.0	2208.0	18.0	1500.0			QL=4 ST=3 TYP=6
	8800	SGMR	48 C	2155.0	2206.0	29.0	1000.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	2155.0	2208.0	45.0	1500.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	2155.0	2206.0	125.0	1000.0			QL=4 ST=1 TYP=8
	8800	SGMR	4 S/F	2155.0	2156.0	125.0	63.0			QL=4 ST=1 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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JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m	Mean 2 Hz)		
09	1415	PALE	48 C	2156.0	2209.0	17.0	620.0			QL=4 ST=3 TYP=8
	8800	PALE	48 C	2156.0	2208.0	17.0	1000.0			QL=4 ST=3 TYP=8
	1415	SGMR	48 C	2156.0	2208.0	21.0	700.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	2156.0	2208.0	34.0	1000.0			QL=4 ST=2 TYP=8
	1415	PALE	48 C	2156.0	2209.0	124.0	620.0			QL=4 ST=1 TYP=8
	8800	PALE	48 C	2156.0	2208.0	124.0	1000.0			QL=4 ST=1 TYP=8
	8800	PALE	4 S/F	2156.0	2157.0	124.0	89.0			QL=4 ST=1 TYP=3
	15400	PALE	49 GB	2158.0	2208.0	15.0	560.0			QL=4 ST=3 TYP=6
	15400	SGMR	48 C	2158.0	2207.0	22.0	710.0			QL=4 ST=2 TYP=8
	15400	PALE	49 GB	2158.0	2208.0	41.0	560.0			QL=4 ST=2 TYP=6
	15400	PALE	49 GB	2158.0	2208.0	122.0	560.0			QL=4 ST=1 TYP=6
	15400	SGMR	48 C	2158.0	2207.0	122.0	710.0			QL=4 ST=1 TYP=8
	15400	SGMR	49 GB	2158.0	2207.0	122.0	710.0			QL=4 ST=1 TYP=6
	2840	PEKG	47 GB	2202.0E	2208.2	68.0D	1228.7			
10	127	TORN	44 NS	1310.0E		110.0D		4.0		V=1
	2950	GORK	20 GRF	0503.4	0515.0	112.6	13.0			
	900	GORK	4 S/F	0511.4	0515.0	7.9	235.0			
	9100	GORK	20 GRF	0512.5	0515.5	26.7	9.1			
	245	SVTO	8 S	0513.0	0513.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0809.0	0809.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1114.0	1114.0	U	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1114.0	1114.0	U	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1438.0	1439.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1438.0	1439.0	1.0	120.0			QL=4 ST=2 TYP=3
	2800	PENT	8 S	1511.0	1515.0	8.0	17.0			
	245	SGMR	8 S	1646.0	1646.0	U	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1646.0	1646.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1647.0	1647.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1712.0	1713.0	1.0	360.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1713.0	1713.0	U	450.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1713.0	1713.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1908.0	1908.0	U	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1908.0	1908.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2323.0	2323.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2339.0	2339.0	U	56.0			QL=4 ST=2 TYP=3
11	127	TORN	44 NS	1000.0E		300.0D		8.0		V=1, DISTURBED
	245	LEAR	8 S	0053.0	0053.0	U	330.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0053.0	0053.0	U	260.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0053.0	0053.0	U	64.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	0143.0	0143.0	3.0	780.0			QL=4 ST=2 TYP=8
	900	GORK	7 C	0603.3	0605.6		7.1			
	900	GORK	7 C	0603.3	0604.9	2.5	5.6			
	9100	GORK	23 GRF	0605.7	0636.4		14.0			
	9100	GORK	23 GRF	0605.7	0608.9	106.6	15.0			
	2950	GORK	22 GRF	0606.0	0623.0		6.5			
	2950	GORK	22 GRF	0606.0	0609.6	48.0	6.5			
	900	GORK	40 F	0615.6	0618.9	4.2	7.5			
	9100	GORK	7 C	0730.0	0730.4	10.1	11.0			
	9100	GORK	7 C	0730.0	0733.9		18.0			
	9100	GORK	20 GRF	0916.5	0956.2	47.3	14.0			
	4995	SVTO	4 S/F	1459.0	1505.0	7.0	40.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1459.0	1505.0	541.0	40.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	1500.0	1506.0	7.0	180.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1500.0	1505.0	540.0	120.0			QL=4 ST=1 TYP=3
	1415	SVTO	4 S/F	1501.0	1505.0	9.0	150.0			QL=4 ST=2 TYP=3
	2800	PENT	46 C	1501.0	1506.0	20.0	90.0			
	1415	SVTO	4 S/F	1501.0	1505.0	539.0	99.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	1504.0	1506.0	3.0	150.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	1504.0	1506.0	3.0	150.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1505.0	1506.0	1.0	150.0			QL=4 ST=1 TYP=3
	2695	SGMR	8 S	1505.0	1506.0	1.0	150.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1505.0	1505.0	U	22.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1505.0	1505.0	535.0	22.0			QL=4 ST=1 TYP=3
	1415	SVTO	48 C	1513.0	1519.0	8.0	210.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1515.0	1519.0	6.0	200.0			QL=4 ST=2 TYP=8
	610	SGMR	4 S/F	1515.0	1515.0	5.0	72.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1515.0	1516.0	1.0	32.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
11	1415	SGMR	49 GB	1634.0	1636.0	6.0	2200.0			QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	1634.0	1636.0	9.0	120000.0			QL=2 ST=2 TYP=6
	1415	SGMR	49 GB	1634.0	1636.0	446.0	2200.0			QL=4 ST=3 TYP=6
	2695	SVTO	4 S/F	1635.0	1639.0	8.0	81.0			QL=2 ST=2 TYP=3
	1415	PALE	49 GB	1636.0	1636.0	1.0	2000.0			QL=4 ST=2 TYP=6
	8800	SGMR	8 S	2136.0	2136.0	U	28.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2136.0	2136.0	U	56.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	2252.0	2254.1	6.0	6.5			
12	127	TORN	43 NS	0730.0		450.0		21.0		V=2
	245	LEAR	43 NS	0755.0	0756.0	25.0	70.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2336.0	2336.0	2.0	63.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0323.0	0323.0	U	76.0			QL=4 ST=2 TYP=3
	9100	GORK	21 GRF	0441.1	0619.9	347.2	23.0			
	900	GORK	40 F	0514.4	0516.2	4.8	8.2			
	9100	GORK	2 S/F	0523.9	0524.2	2.1	19.0			
	9100	GORK	46 C	0629.6	0630.4	6.4	26.0			
	9100	GORK	46 C	0629.6	0633.8		11.0			
	9100	GORK	2 S/F	0655.5	0658.8	7.5	12.0			
	245	SVTO	4 S/F	0751.0	0756.0	6.0	80.0			QL=2 ST=2 TYP=3
	9100	GORK	46 C	0756.6	0803.0		46.0			
	9100	GORK	46 C	0756.6	0757.0	10.2	12.0			
	2840	PEKG	3 S	0757.0	0802.1	20.0	41.7			
	2950	GORK	46 C	0759.7	0802.2	7.2	55.0			
	2950	GORK	46 C	0759.7	0803.6		36.0			
	4995	LEAR	4 S/F	0800.0	0802.0	7.0	56.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0800.0	0802.0	6.0	69.0			QL=4 ST=2 TYP=3
	2800	HIRA	7 C	0800.0	0802.0	16.0	35.0			0
	4995	LEAR	4 S/F	0800.0	0802.0	960.0	56.0			QL=4 ST=1 TYP=3
	8800	LEAR	8 S	0801.0	0802.0	2.0	43.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0801.0	0802.0	3.0	40.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0801.0	0802.0	3.0	38.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0801.0	0802.0	959.0	40.0			QL=4 ST=1 TYP=3
	8800	LEAR	4 S/F	0801.0	0802.0	959.0	43.0			QL=4 ST=1 TYP=3
	8800	SVTO	8 S	0802.0	0802.0	1.0	23.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0802.0	0802.0	U	23.0			QL=4 ST=2 TYP=3
	900	GORK	46 C	0802.4	0807.1	12.6	80.0			
	900	GORK	46 C	0802.4	0808.5		30.0			
	9100	GORK	30 PBI	0806.8	0806.8	44.2	42.0			
	2950	GORK	30 PBI	0806.9	0806.9	29.7	15.0			
	2950	GORK	46 C	0807.9	0810.3		13.0			
	2950	GORK	46 C	0807.9	0808.5	5.8	7.3			
	1415	LEAR	49 GB	0809.0	0810.0	2.0	1100.0			QL=4 ST=2 TYP=6
	1415	LEAR	49 GB	0809.0	0810.0	951.0	1100.0			QL=4 ST=1 TYP=6
	1415	SVTO	49 GB	0810.0	0810.0	1.0	1100.0			QL=4 ST=2 TYP=6
	9100	GORK	2 S/F	0812.0	0812.1	1.5	7.7			
	9100	GORK	2 S/F	0910.4	0911.1	3.5	11.0			
	900	GORK	41 F	0948.1	0948.2	10.5	14.0			
	900	GORK	41 F	0948.1	0951.4		16.0			
	900	GORK	41 F	0948.1	0952.7		17.0			
	9100	GORK	46 C	0957.0	1001.4		24.0			
	9100	GORK	46 C	0957.0	0959.9	9.0	26.0			
	4995	SVTO	48 C	1247.0	1300.0	19.0	250.0			QL=4 ST=2 TYP=8
	4995	SGMR	4 S/F	1254.0	1300.0	9.0	260.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1255.0	1300.0	8.0	320.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1255.0	1300.0	8.0	190.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1256.0	1300.0	7.0	230.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1256.0	1300.0	15.0	190.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1257.0	1300.0	5.0	65.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1257.0	1300.0	5.0	65.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1259.0	1301.0	3.0	460.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1300.0	1301.0	1.0	60.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1300.0	1301.0	1.0	40.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1301.0	1301.0	U	22.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1307.0	1307.0	U	21.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	1620.0	1622.0	30.0	240.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	1621.0	1622.0	2.0	240.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1622.0	1622.0	1.0	66.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	1622.0	1622.0	29.0	380.0			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

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
12	245	SVTO	48 C	1622.0	1622.0	38.0	250.0			QL=4 ST=2 TYP=8
	1415	SVTO	48 C	1622.0	1651.0	38.0	220.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1622.0	1651.0	47.0	750.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	1622.0	1651.0	46.0	820.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1626.0	1628.0	18.0	210.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1626.0	1628.0	17.0	150.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	1627.0	1637.0	16.0	130.0			QL=4 ST=2 TYP=8
	1415	SGMR	4 S/F	1628.0	1639.0	16.0	130.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1628.0	1639.0	16.0	100.0			QL=4 ST=2 TYP=3
	15400	SVTO	48 C	1629.0	1650.0	40.0	380.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1636.0	1650.0	27.0	500.0			QL=4 ST=2 TYP=8
	1415	PALE	48 C	1636.0E	1651.0U	22.0D	220.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	1636.0E	1651.0U	29.0D	790.0			QL=4 ST=2 TYP=8
	245	PALE	4 S/F	1637.0E	1650.0U	14.0D	100.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1643.0	1643.0	1.0	55.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1643.0E	1643.0U	1.0D	55.0			QL=4 ST=2 TYP=3
	4995	PALE	48 C	1644.0E	1651.0U	24.0D	1000.0			QL=4 ST=2 TYP=8
	245	SGMR	4 S/F	1647.0	1650.0	4.0	100.0			QL=4 ST=2 TYP=3
	2695	SGMR	49 GB	1647.0	1651.0	18.0	750.0			QL=4 ST=2 TYP=6
	8800	SGMR	49 GB	1647.0	1650.0	19.0	700.0			QL=4 ST=2 TYP=6
	4995	SGMR	49 GB	1647.0	1650.0	21.0	960.0			QL=4 ST=2 TYP=6
	1415	SGMR	4 S/F	1648.0	1651.0	10.0	240.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1648.0	1650.0	13.0	360.0			QL=4 ST=2 TYP=3
	8800	PALE	48 C	1648.0E	1650.0U	19.0D	800.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	1648.0E	1651.0U	14.0D	390.0			QL=4 ST=2 TYP=8
	410	PALE	8 S	1650.0	1650.0		51.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1650.0	1650.0		55.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1650.0E	1650.0U		51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1819.0	1819.0		100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2015.0	2015.0		69.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2015.0	2015.0		64.0			QL=4 ST=2 TYP=3
	2840	PEKG	20 GRF	2236.0	2241.9	34.0	24.2			
	2800	HIRA	7 C	2238.0	2242.0	21.0	20.0			0
	610	PALE	48 C	2250.0	2252.0	7.0	180.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	2251.0	2254.0	5.0	270.0			QL=4 ST=2 TYP=8
	1415	PALE	48 C	2251.0	2252.0	6.0	170.0			QL=4 ST=2 TYP=8
	245	PALE	4 S/F	2252.0	2257.0	5.0	54.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	2320.0	2325.9	14.0	16.9			
	410	PALE	8 S	2321.0	2321.0	1.0	230.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2321.0	2321.0		52.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2321.0	2321.0	1.0	58.0			QL=4 ST=2 TYP=3
	2800	HIRA	7 C	2322.0	2326.0	17.0	15.0			0
	410	LEAR	4 S/F	2324.0	2325.0	7.0	290.0			QL=2 ST=2 TYP=3
	610	LEAR	4 S/F	2324.0	2326.0	7.0	83.0			QL=2 ST=2 TYP=3
	2800	PENT	46 C	2324.0	2326.0	16.0	18.0			
	1415	LEAR	4 S/F	2325.0	2325.0	6.0	67.0			QL=2 ST=2 TYP=3
	410	PALE	48 C	2325.0	2326.0	5.0	420.0			QL=4 ST=2 TYP=8
	610	PALE	4 S/F	2325.0	2326.0	5.0	120.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2325.0	2325.0	4.0	85.0			QL=4 ST=2 TYP=3
13	245	LEAR	43 NS	0005.0	0009.0	7.0	52.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0005.0	0009.0	1435.0	52.0			QL=4 ST=1 TYP=1
	127	TORN	44 NS	0630.0E		510.0D		60.0		V=2
	245	SGMR	43 NS	1310.0	1358.0	72.0	280.0			QL=4 ST=2 TYP=1
	245	PALE	8 S	0009.0	0009.0		52.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0128.0	0131.2	10.0	10.9			
	245	PALE	48 C	0154.0	0155.0	4.0	680.0			QL=4 ST=2 TYP=8
	410	PALE	4 S/F	0154.0	0156.0	4.0	410.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0155.0	0155.0	3.0	700.0			QL=4 ST=2 TYP=6
	245	LEAR	49 GB	0155.0	0155.0	3.0	700.0			QL=4 ST=3 TYP=6
	410	LEAR	8 S	0155.0	0156.0	1.0	220.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0155.0	0156.0	1.0	57.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0155.0	0156.0	1325.0	220.0			QL=4 ST=1 TYP=3
	610	PALE	8 S	0156.0	0156.0		56.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0230.0	0246.8	85.0	248.9			
	2800	HIRA	7 C	0237.0	0247.0	93.0	245.0			0
	2695	LEAR	48 C	0239.0	0246.0	45.0	250.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0239.0	0246.0	50.0	530.0			QL=4 ST=2 TYP=8
	2695	LEAR	4 S/F	0239.0	0241.0	1281.0	100.0			QL=4 ST=1 TYP=3

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JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
13	4995	LEAR	4 S/F	0239.0	0241.0	1281.0	150.0			QL=4 ST=1 TYP=3
	4995	PALE	49 GB	0239.0	0243.0	1281.0	560.0			QL=4 ST=1 TYP=6
	4995	PALE	49 GB	0239.0	0246.0	1281.0	640.0			QL=4 ST=3 TYP=6
	2695	PALE	4 S/F	0239.0	0243.0	1281.0	280.0			QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	0239.0	0246.0	1281.0	290.0			QL=4 ST=3 TYP=3
	245	LEAR	8 S	0240.0	0240.0	1.0	60.0			QL=4 ST=2 TYP=3
	15400	LEAR	48 C	0240.0	0246.0	42.0	200.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0240.0	0246.0	51.0	420.0			QL=4 ST=2 TYP=8
	245	LEAR	48 C	0240.0	0411.0	99.0	470.0			QL=4 ST=2 TYP=8
	8800	LEAR	4 S/F	0240.0	0241.0	1280.0	110.0			QL=4 ST=1 TYP=3
	15400	LEAR	4 S/F	0240.0	0241.0	1280.0	59.0			QL=4 ST=1 TYP=3
	245	PALE	4 S/F	0240.0	0242.0	1280.0	84.0			QL=4 ST=3 TYP=3
	8800	PALE	4 S/F	0240.0	0244.0	1280.0	330.0			QL=4 ST=1 TYP=3
	8800	PALE	4 S/F	0240.0	0246.0	1280.0	370.0			QL=4 ST=3 TYP=3
	15400	PALE	4 S/F	0241.0	0243.0	1279.0	140.0			QL=4 ST=1 TYP=3
	15400	PALE	4 S/F	0241.0	0246.0	1279.0	170.0			QL=4 ST=3 TYP=3
	1415	PALE	48 C	0252.0	0318.0	27.0	730.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0252.0	0335.0	64.0	1000.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	0308.0	0309.0	10.0	96.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0308.0	0337.0	66.0	1800.0			QL=4 ST=2 TYP=8
	410	PALE	4 S/F	0315.0	0316.0	5.0	170.0			QL=4 ST=2 TYP=3
	410	LEAR	48 C	0315.0	0352.0	59.0	610.0			QL=4 ST=2 TYP=8
	9100	GORK	30 PBI	0321.0U	0321.0U	52.5D	55.0			
	2950	GORK	30 PBI	0322.5U	0322.5U	52.5D	70.0			
	900	GORK	47 GB	0324.6	0349.7	68.9	877.0			
	1415	PALE	48 C	0333.0	0335.0	23.0	1100.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	0333.0	0334.0	46.0	1800.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	0333.0	0352.0	41.0	840.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	0333.0	0336.0	41.0	1400.0			QL=4 ST=2 TYP=8
	2950	GORK	46 C	0333.0	0343.2		3.2			
	2950	GORK	46 C	0333.0	0336.3	12.0	11.0			
	1415	SVTO	8 S	0356.0	0356.0	U	81.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0405.8	0406.0	0.3	7.9			
	2950	GORK	1 S	0405.8	0406.0	0.4	2.1			
	245	PALE	8 S	0434.0	0434.0	U	100.0			QL=4 ST=2 TYP=3
	2950	GORK	20 GRF	0437.5	0603.3	150.5	9.9			
	9100	GORK	21 GRF	0440.2	0624.1	146.3	17.0			
	9100	GORK	46 C	0442.1	0442.3	1.2	14.0			
	9100	GORK	46 C	0442.1	0442.9		11.0			
	2950	GORK	1 S	0652.0	0652.1	0.8	3.2			
	410	LEAR	8 S	0655.0	0655.0	U	100.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0655.0	0655.0	3.0	220.0			QL=4 ST=2 TYP=3
	2950	GORK	20 GRF	0720.5	0745.0	45.5	5.4			
	410	LEAR	8 S	0732.0	0732.0	U	75.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0732.0	0732.0	U	160.0			QL=4 ST=2 TYP=3
	410	LEAR	48 C	0754.0	0756.0	2.0	490.0			QL=4 ST=2 TYP=8
	410	SVTO	49 GB	0755.0	0756.0	1.0	780.0			QL=4 ST=2 TYP=6
	610	LEAR	8 S	0756.0	0756.0	U	90.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1141.0	1141.0	U	93.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1157.0	1157.0	U	57.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1157.0	1157.0	U	58.0			QL=4 ST=2 TYP=3
	610	SGMR	48 C	1216.0	1216.0	4.0	130.0			QL=4 ST=2 TYP=8
	1415	SGMR	8 S	1216.0	1217.0	1.0	84.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1216.0	1217.0	1.0	67.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1216.0	1216.0	U	54.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1216.0	1217.0	1.0	76.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1216.0	1216.0	1.0	67.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1216.0	1217.0	1.0	31.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1216.0	1216.0	8.0	67.0			QL=4 ST=2 TYP=3
	127	TORN	47 GB	1217.2	1217.6	1.7	700.0	320.0		DISTURBED
	410	SGMR	48 C	1219.0	1220.0	4.0	230.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	1219.0	1220.0	2.0	180.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	1219.0	1220.0	4.0	290.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	1219.0	1220.0	2.0	150.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1219.0	1219.0	2.0	22.0			QL=4 ST=2 TYP=3
	127	TORN	45 C	1220.3	1220.9	1.8	370.0	180.0		
	610	SGMR	8 S	1227.0	1228.0	1.0	94.0			QL=4 ST=2 TYP=3
	610	SGMR	48 C	1345.0	1401.0	27.0	2700.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	1345.0	1401.0U	52.0	2700.0			QL=4 ST=2 TYP=8

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Outstanding Occurrences

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)	Int	Remarks
13	410	SGMR	48 C	1350.0	1403.0	31.0	4800.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	1351.0	1403.0	30.0	5300.0			QL=2 ST=2 TYP=8
	610	SVTO	48 C	1353.0	1401.0	18.0	1700.0			QL=2 ST=2 TYP=8
	610	SVTO	48 C	1353.0	1358.0	607.0	1100.0			QL=2 ST=1 TYP=8
	610	SVTO	48 C	1353.0	1401.0	607.0	1700.0			QL=2 ST=1 TYP=8
	245	SVTO	48 C	1354.0	1403.0	28.0	5900.0			QL=2 ST=2 TYP=8
	245	SGMR	48 C	1357.0	1403.0U	25.0	6600.0			QL=4 ST=2 TYP=8
	1415	SVTO	8 S	1358.0	1358.0	U	22.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1358.0	1358.0	U	22.0			QL=4 ST=2 TYP=3
	1415	SVTO	48 C	1358.0	1420.0	42.0	210.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	1358.0	1418.0	49.0	5700.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1359.0	1419.0	48.0	1900.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1359.0	1417.0	48.0	4700.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1359.0	1417.0	63.0	5100.0			QL=4 ST=2 TYP=8
	33	UPIC	46 C	1401.0	1402.0	24.0				
	2695	SGMR	49 GB	1401.0	1419.0	42.0	2000.0			QL=4 ST=2 TYP=6
	15400	SVTO	48 C	1401.0	1417.0	46.0	4500.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1401.0	1417.0	63.0	5100.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1401.0	1417.0	64.0	5400.0			QL=4 ST=2 TYP=8
	8800	SGMR	49 GB	1401.0	1407.0	599.0	880.0			QL=4 ST=1 TYP=6
	8800	SGMR	49 GB	1401.0	1413.0	599.0	2300.0			QL=4 ST=1 TYP=6
	8800	SGMR	49 GB	1401.0	1417.0	599.0	5100.0			QL=4 ST=1 TYP=6
	15400	SGMR	49 GB	1401.0	1407.0	599.0	710.0			QL=4 ST=1 TYP=6
	15400	SGMR	49 GB	1401.0	1413.0	599.0	2200.0			QL=4 ST=1 TYP=6
	15400	SGMR	4 S/F	1401.0	1402.0	599.0	130.0			QL=4 ST=1 TYP=3
	1415	SGMR	48 C	1402.0	1423.0	35.0	210.0			QL=4 ST=2 TYP=8
	127	TORN	42 SER	1411.6	1422.3	13.0	630.0	210.0		
	245	SGMR	8 S	1539.0	1539.0	U	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1539.0	1539.0	U	84.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1630.0	1630.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1630.0	1630.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1755.0	1755.0	U	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1755.0	1755.0	U	140.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1806.0	1806.0	U	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1906.0	1906.0	U	75.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2116.0	2116.0	U	76.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2116.0	2116.0	U	70.0			QL=4 ST=2 TYP=3
	2800	PENT	8 S	2149.0	2152.0	10.0	231.0			
	245	PALE	48 C	2151.0	2155.0	4.0	2000.0			QL=4 ST=2 TYP=8
	245	PALE	49 GB	2151.0	2152.0	2.0	1200.0			QL=4 ST=2 TYP=6
	245	SGMR	48 C	2151.0	2155.0	4.0	1700.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	2151.0	2152.0	3.0	680.0			QL=4 ST=2 TYP=8
	2800	HIRA	8 S	2152.0	2153.0	4.0	200.0			0
	410	PALE	48 C	2152.0	2152.0	2.0	1100.0			QL=4 ST=2 TYP=8
	610	PALE	49 GB	2152.0	2153.0	1.0	570.0			QL=4 ST=2 TYP=6
	1415	PALE	8 S	2152.0	2152.0	1.0	260.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2152.0	2152.0	1.0	250.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2152.0	2152.0	1.0	300.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2152.0	2152.0	1.0	150.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2152.0	2152.0	U	74.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2152.0	2153.0	1.0	380.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2152.0	2152.0	1.0	300.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2152.0	2152.0	1.0	240.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	2152.0	2152.0	1.0	310.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2152.0	2152.0	U	150.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2253.0	2253.0	U	400.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2253.0	2253.0	U	270.0			QL=4 ST=2 TYP=3
14	127	TORN	44 NS	1350.0E		70.0D		16.0		V=1
	610	LEAR	8 S	0002.0	0002.0	U	100.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0002.0	0003.0	1.0	99.0			QL=4 ST=2 TYP=3
	2840	PEKG	20 GRF	0057.0	0103.7	17.0	9.0			
	245	PALE	8 S	0137.0	0137.0	1.0	150.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0149.0	0151.8	9.0	29.3			
	2800	HIRA	8 S	0151.0	0152.0	3.0	25.0			0
	410	LEAR	8 S	0151.0	0151.0	1.0	59.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0151.0	0151.0	1.0	28.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0151.0	0151.0	1.0	26.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0151.0	0151.0	1.0	32.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
14	410	PALE	8 S	0151.0	0151.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0221.0	0221.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0221.0	0221.0	U	120.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0221.0	0221.0	U	55.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0319.0	0319.0	U	70.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0427.0	0431.0	8.0	37.5			
	900	GORK	40 F	0427.5	0428.7	6.2	6.1			
	2950	GORK	46 C	0430.0	0431.1		11.0			
	2950	GORK	46 C	0430.0	0430.8	3.3	54.0			
	2800	HIRA	1 S	0431.0	0431.0	2.0	10.0		0	
	245	LEAR	8 S	0442.0	0442.0	U	81.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0524.0	0524.0	U	70.0			QL=4 ST=2 TYP=3
	900	GORK	4 S/F	0524.4	0525.5	2.0	200.0			
	2950	GORK	1 S	0524.5	0524.8	0.7	5.2			
	33	UPIC	45 C	0525.0	0525.2	1.0				
	900	GORK	40 F	0536.7	0538.7	15.3	8.1			
	900	GORK	46 C	0554.8	0604.0U	51.2	210.0U			
	900	GORK	46 C	0554.8	0616.3		60.0			
	900	GORK	46 C	0554.8	0612.8		48.0			
	2840	PEKG	3 S	0556.0	0604.3	15.0	75.3			
	9100	GORK	21 GRF	0558.9	0645.0	226.1	18.0			
	2800	HIRA	7 C	0600.0	0605.0	23.0	70.0		0	
	245	LEAR	48 C	0601.0	0604.0	3.0	98.0			QL=4 ST=3 TYP=8
	245	LEAR	8 S	0601.0	0601.0	U	59.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0603.0	0604.0	2.0	790.0			QL=4 ST=3 TYP=6
	2950	GORK	4 S/F	0603.0	0604.4	3.2	62.0			
	9100	GORK	4 S/F	0603.9	0604.4	1.3	48.0			
	1415	LEAR	49 GB	0604.0	0604.0	U	5000.0			QL=4 ST=3 TYP=6
	245	LEAR	8 S	0604.0	0604.0	U	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0604.0	0604.0	1.0	130.0			QL=4 ST=3 TYP=3
	2695	LEAR	8 S	0604.0	0604.0	U	81.0			QL=4 ST=3 TYP=3
	2695	LEAR	8 S	0604.0	0604.0	U	85.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0604.0	0604.0	U	90.0			QL=4 ST=3 TYP=3
	4995	LEAR	8 S	0604.0	0604.0	U	95.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0604.0	0604.0	U	55.0			QL=4 ST=3 TYP=3
	8800	LEAR	8 S	0604.0	0604.0	U	66.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	0604.0	0604.5	1.5				
	2950	GORK	46 C	0609.0	0616.4		15.0			
	2950	GORK	46 C	0609.0	0613.8	10.5	7.5			
	245	LEAR	48 C	0611.0	0616.0	26.0	110.0			QL=4 ST=2 TYP=8
	9100	GORK	46 C	0611.6	0613.3	7.0	7.7			
	9100	GORK	46 C	0611.6	0616.3		14.0			
	2840	PEKG	3 S	0612.0	0616.5	10.0	19.6			
	410	LEAR	48 C	0615.0	0617.0	19.0	300.0			QL=4 ST=2 TYP=8
	410	LEAR	8 S	0657.0	0658.0	1.0	120.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0657.4	0658.0	1.3	7.7			
	2840	PEKG	3 S	0720.0	0723.3	12.0	206.2			
	8800	LEAR	49 GB	0722.0	0723.0	1.0	820.0			QL=4 ST=2 TYP=6
	15400	LEAR	49 GB	0722.0	0723.0	1.0	1000.0			QL=4 ST=2 TYP=6
	245	LEAR	8 S	0722.0	0723.0	2.0	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0722.0	0722.0	2.0	280.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0722.0	0723.0	1.0	290.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0722.0	0723.0	1.0	220.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0722.0	0723.0	1.0	490.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	0722.0	0723.5	4.0				
	2950	GORK	3 S	0722.3	0723.0	6.2	210.0			
	900	GORK	46 C	0722.3	0723.4		92.0			
	900	GORK	46 C	0722.3	0722.8	8.6	180.0			
	9100	GORK	3 S	0722.4	0723.2U	3.4	320.0U			
	2800	HIRA	8 S	0723.0	0724.0	3.0	95.0		0	
	610	LEAR	49 GB	0723.0	0723.0	U	1100.0			QL=4 ST=2 TYP=6
	900	GORK	46 C	0733.9	0737.2	7.3	99.0			
	900	GORK	46 C	0733.9	0737.4		100.0			
	245	LEAR	8 S	0735.0	0737.0	2.0	70.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0735.0	0737.3	7.0	8.8			
	33	UPIC	46 C	0735.0	0737.5	3.0				
	2950	GORK	4 S/F	0735.9	0737.4	2.5	12.0			
	2800	HIRA	1 S	0737.0	0738.0	1.0	10.0		0	
	610	LEAR	8 S	0737.0	0737.0	U	100.0			QL=4 ST=2 TYP=3

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

Outstanding Occurrences

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
14	900	GORK	4 S/F	0756.0	0756.9	2.5	7.3			
	900	GORK	21 GRF	0801.0	0933.2	216.5	44.0			
	900	GORK	48 C	0801.0	0850.6		180.0			
	900	GORK	48 C	0801.0	0843.7	84.2	180.00			
	1415	LEAR	8 S	0824.0	0825.0	2.0	140.0			QL=4 ST=2 TYP=3
	33	UPIC	41 F	0837.0	0857.0	69.0				
	1415	LEAR	48 C	0840.0	0843.0	5.0	400.0			QL=4 ST=2 TYP=8
	2950	GORK	20 GRF	0845.0	0927.8	73.2	12.0			
	610	LEAR	8 S	0850.0	0851.0	1.0	59.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0850.0	0850.0	1.0	64.0			QL=4 ST=2 TYP=3
	2840	PEKG	47 GB	1010.0	1059.6	74.0	903.8			
	2950	GORK	48 C	1018.5	1056.0		2300.0			
	2950	GORK	48 C	1018.5	1035.00	90.5	220.00			
	9100	GORK	48 C	1018.7	1030.00	93.30	340.00			
	9100	GORK	48 C	1018.7	1056.3		3030.0			
	9100	GORK	48 C	1018.7	1046.4		3100.0			
	15400	SVTO	48 C	1019.0	1034.0	85.0	6200.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1019.0	1033.0	821.0	5200.0			QL=4 ST=1 TYP=8
	33	UPIC	41 F	1019.0	1031.5	88.0				
	900	GORK	47 GB	1019.5	1109.8	75.7	12000.0			
	4995	SVTO	48 C	1020.0	1035.0	83.0	2700.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1020.0	1034.0	85.0	5300.0			QL=4 ST=2 TYP=8
	4995	SVTO	49 GB	1020.0	1033.0	820.0	1800.0			QL=4 ST=1 TYP=6
	8800	SVTO	49 GB	1020.0	1033.0	820.0	4200.0			QL=4 ST=1 TYP=6
	2695	SGMR	48 C	1021.0	1059.0	75.0	3100.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1021.0	1059.0	75.0	3400.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1021.0	1034.0	101.0	3600.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1021.0	1034.0	108.0	5800.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1021.0	1035.0	110.0	2400.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1021.0	1059.0	819.0	3100.0			QL=4 ST=1 TYP=8
	4995	SGMR	48 C	1021.0	1035.0	819.0	2400.0			QL=4 ST=1 TYP=8
	8800	SGMR	48 C	1021.0	1034.0	819.0	3600.0			QL=4 ST=1 TYP=8
	15400	SGMR	48 C	1021.0	1034.0	819.0	5800.0			QL=4 ST=1 TYP=8
	4995	SGMR	49 GB	1021.0	1033.0	819.0	1900.0			QL=4 ST=1 TYP=6
	8800	SGMR	49 GB	1021.0	1033.0	819.0	3200.0			QL=4 ST=1 TYP=6
	15400	SGMR	49 GB	1021.0	1033.0	819.0	5000.0			QL=4 ST=1 TYP=6
	2695	SGMR	4 S/F	1021.0	1029.0	819.0	96.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	1021.0	1029.0	819.0	66.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	1021.0	1033.0	819.0	210.0			QL=4 ST=1 TYP=3
	410	SVTO	48 C	1025.0	1111.0	117.0	53000.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	1025.0	1032.0	815.0	100.0			QL=4 ST=1 TYP=8
	410	SVTO	4 S/F	1025.0	1028.0	815.0	36.0			QL=4 ST=1 TYP=3
	410	SVTO	4 S/F	1025.0	1029.0	815.0	96.0			QL=4 ST=1 TYP=3
	245	SVTO	48 C	1026.0	1111.0	105.0	5400.0			QL=4 ST=2 TYP=8
	245	SVTO	49 GB	1026.0	1032.0	814.0	720.0			QL=4 ST=1 TYP=6
	245	SVTO	4 S/F	1026.0	1028.0	814.0	58.0			QL=4 ST=1 TYP=3
	1415	SGMR	48 C	1029.0	1107.0	59.0	13000.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1029.0	1107.0	811.0	13000.0			QL=4 ST=1 TYP=8
	1415	SGMR	4 S/F	1029.0	1033.0	811.0	31.0			QL=4 ST=1 TYP=3
	245	SGMR	8 S	1032.0	1032.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1032.0	1111.0	108.0	4400.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1032.0	1111.0	808.0	4400.0			QL=4 ST=1 TYP=8
	1415	SVTO	48 C	1033.0	1107.0	54.0	10000.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	1033.0	1110.0	103.0	84000.0			QL=2 ST=2 TYP=8
	610	SVTO	4 S/F	1033.0	1033.0	807.0	370.0			QL=4 ST=1 TYP=3
	610	SGMR	49 GB	1047.0	1110.0	80.0	120000.0			QL=4 ST=2 TYP=6
	410	SGMR	48 C	1047.0	1111.0	100.0	44000.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1047.0	1111.0	793.0	44000.0			QL=4 ST=1 TYP=8
	610	SGMR	49 GB	1047.0	1110.0	793.0	120000.0			QL=4 ST=1 TYP=6
	127	TORN	4 S/F	1410.3	1411.2	2.5	190.0	100.0		
	33	UPIC	46 C	1718.0	1719.0	3.0				
	245	SVTO	8 S	1719.0	1719.0	U	55.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1721.0	1722.0	3.0	820.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	1721.0	1721.0	1.0	300.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1721.0	1721.0	2.0	510.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1721.0	1721.0	U	110.0			QL=4 ST=2 TYP=3
	33	UPIC	31 ABS	1721.0	1735.0	71.0				
	610	PALE	8 S	1722.0	1724.0	2.0	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1732.0	1733.0	1.0	110.0			QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
14	245	PALE	8 S	1733.0	1733.0	U	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1733.0	1733.0	U	23.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	2250.0	2254.7	9.0	63.9			
	2800	HIRA	8 S	2253.0	2255.0	7.0	80.0			0
	410	SGMR	8 S	2253.0E	2253.0	U	87.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2253.0E	2253.0	U	24.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2254.0	2255.0	1.0	58.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2254.0	2255.0	1.0	100.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2254.0	2254.0	1.0	78.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2256.0	2256.0	1.0	94.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2256.0E	2256.0	U	67.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2256.0E	2256.0	U	22.0			QL=4 ST=2 TYP=3
15	127	TORN	43 NS	0843.0		377.0		110.0		V=1
	245	LEAR	8 S	0704.0	0704.0	U	300.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0704.0	0704.0	U	280.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0720.0	0722.0	2.0	60.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0722.0	0722.0	U	58.0			QL=4 ST=2 TYP=3
	33	UPIC	42 SER	0906.0	0912.5	51.5				
	127	TORN	27 RF	1137.0		108.0		330.0		
	2800	PENT	24 R	1451.0	1515.0	24.0	23.0			
	410	PALE	8 S	1715.0	1715.0	U	70.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2047.0	2047.0	U	59.0			QL=4 ST=2 TYP=3
	2800	HIRA	4 S/F	2047.0	2051.0	28.0	195.0			0
	4995	SGMR	4 S/F	2048.0	2052.0	15.0	220.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2048.0	2050.0	192.0	80.0			QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	2048.0	2052.0	192.0	220.0			QL=4 ST=1 TYP=3
	410	PALE	8 S	2049.0	2049.0	U	51.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2049.0	2051.0	9.0	290.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	2049.0	2105.0	16.0	180.0			QL=4 ST=2 TYP=8
	4995	PALE	4 S/F	2049.0	2053.0	15.0	230.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2049.0	2053.0	191.0	230.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	2049.0	2050.0	191.0	100.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	2049.0	2051.0	191.0	290.0			QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	2050.0	2052.0	5.0	60.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2051.0	2051.0	9.0	280.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2051.0	2053.0	8.0	120.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2051.0	2052.0	8.0	120.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2051.0	2051.0	189.0	280.0			QL=4 ST=1 TYP=3
	8800	PALE	4 S/F	2051.0	2053.0	189.0	120.0			QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	2051.0	2052.0	189.0	120.0			QL=4 ST=1 TYP=3
	15400	PALE	8 S	2052.0	2053.0	2.0	56.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	2337.0	2342.9	11.0	11.8			
	410	LEAR	8 S	2342.0	2342.0	U	52.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2343.0	2343.0	1.0	61.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	2354.0	2357.3	8.0	7.3			
16	2840	PEKG	5 S	0331.0	0333.9	6.0	33.5			
	2950	GORK	46 C	0332.3	0333.2	3.5	37.0			
	2950	GORK	46 C	0332.3	0333.7		39.0			
	900	GORK	46 C	0332.5	0334.2	7.1	17.0			
	900	GORK	46 C	0332.5	0339.3		18.0			
	900	GORK	46 C	0332.5	0337.4		25.0			
	9100	GORK	4 S/F	0332.6	0333.8	2.7	23.0			
	2800	HIRA	3 S	0333.0	0334.0	4.0	30.0			0
	2840	PEKG	1 S	0707.0	0711.4	7.0	6.6			
	2950	GORK	28 PRE	0707.3	0708.6	2.5	5.5			
	600	GORK	46 C	0707.8	0711.2		42.0			
	900	GORK	46 C	0707.8	0708.8	5.2	16.0			
	9100	GORK	7 C	0707.9	0709.0	4.3	4.7			
	9100	GORK	7 C	0707.9	0711.0		11.0			
	2950	GORK	4 S/F	0709.8	0711.1	5.2	8.7			
	900	GORK	46 C	0721.9	0723.0	1.8	9.4			
	900	GORK	46 C	0721.9	0723.3		22.0			
	2950	GORK	1 S	0721.9	0722.4	2.4	3.3			
	33	UPIC	32 ABS	1020.0	1026.0	23.0				
	33	UPIC	45 C	1114.0	1115.0	3.5				
	245	PALE	8 S	1923.0	1923.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1923.0	1923.0	U	88.0			QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
17	2800	PENT	24 R	0016.0	0043.0	80.0	21.0			
	245	PALE	8 S	0127.0	0127.0	U	100.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	0618.7	0629.3	10.6	3.3			
	900	GORK	40 F	0625.8	0629.3	4.0	15.0			
	900	GORK	40 F	0625.8	0629.3	4.0	15.0			
	410	PALE	8 S	1958.0	1958.0	1.0	180.0			QL=4 ST=2 TYP=3
20	245	PALE	48 C	1923.0	1927.0	4.0	150.0			QL=4 ST=2 TYP=8
21	245	SGMR	8 S	1608.0	1608.0	U	59.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1608.0	1608.0	U	67.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1608.0	1608.0	U	28.0			QL=4 ST=2 TYP=3
22	245	PALE	8 S	1717.0	1718.0	1.0	140.0			QL=4 ST=2 TYP=3
23	245	PALE	8 S	0035.0	0035.0	1.0	150.0			QL=4 ST=2 TYP=3
24	127	TORN	5 S	1014.7	1015.6	3.6	190.0	90.0		
	245	SGMR	8 S	1222.0	1223.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1222.0	1222.0	1.0	220.0			QL=4 ST=2 TYP=3
	127	TORN	27 RF	1335.0	1339.0	16.7	30.0	4.0		
	33	UPIC	45 C	1344.5	1345.0	1.5				
	33	UPIC	46 C	1354.0	1355.0	6.0				
25	245	SVTO	8 S	1641.0	1641.0	U	61.0			QL=4 ST=2 TYP=3
26	127	TORN	43 NS	1205.0		55.00		4.0		V=1?ATM.STORM
	2840	PEKG	1 S	0917.0	0919.2	9.0	7.9			
	2950	GORK	3 S	0918.4	0919.2	7.3	8.1			
	900	GORK	46 C	0918.9	0921.0	6.8	10.0			
	900	GORK	46 C	0918.9	0921.8		10.0			
	127	TORN	7 C	0922.3	0924.1	2.4U	30.0	13.0		DISTURBED
27	127	TORN	44 NS	1210.0E		50.00		6.0		V=0
	245	SGMR	43 NS	2211.0	2300.0	49.0	250.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	2211.0	2221.0	109.0	110.0			QL=4 ST=1 TYP=1
	2840	PEKG	47 GB	0430.0	0507.3	100.0	942.7			
	2800	HIRA	47 GB	0434.0	0507.0	96.0	665.0			0
	2950	GORK	47 GB	0436.0	0500.0U	54.0	260.0U			
	2950	GORK	47 GB	0436.0	0514.3		500.0			
	900	GORK	46 C	0439.3	0454.0	50.7	230.0			
	900	GORK	46 C	0439.3	0508.5		210.0			
	9100	GORK	47 GB	0440.3	0500.0U	49.7	360.0U			
	9100	GORK	47 GB	0440.3	0514.4		325.0			
	1415	LEAR	8 S	0444.0	0444.0	U	68.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0444.0	0445.0	3.0	82.0			QL=4 ST=2 TYP=3
	610	LEAR	48 C	0444.0	0454.0	28.0	180.0			QL=4 ST=2 TYP=8
	1415	LEAR	4 S/F	0444.0	0507.0	47.0	270.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0444.0	0508.0	46.0	240.0			QL=4 ST=2 TYP=3
	2695	LEAR	48 C	0444.0	0506.0	57.0	800.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	0444.0	0522.0	51.0	690.0			QL=2 ST=2 TYP=8
	1415	SVTO	4 S/F	0444.0	0444.0	1156.0	45.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0445.0	0446.0	2.0	73.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	0445.0	0445.0	3.0	62.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0445.0	0458.0	18.0	550.0			QL=4 ST=2 TYP=8
	2695	PALE	49 GB	0445.0	0457.0	12.0	720.0			QL=4 ST=2 TYP=6
	1415	PALE	4 S/F	0445.0	0445.0	10.0	62.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	0445.0	0457.0	12.0	97.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0445.0	0448.0	1155.0	120.0			QL=4 ST=1 TYP=3
	4995	SVTO	48 C	0446.0	0457.0	49.0	1400.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0446.0	0456.0	56.0	1400.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	0446.0	0506.0	51.0	770.0			QL=2 ST=2 TYP=8
	4995	LEAR	4 S/F	0446.0	0447.0	1154.0	99.0			QL=4 ST=1 TYP=3
	4995	PALE	48 C	0447.0	0457.0	10.0	1500.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0447.0	0456.0	48.0	1200.0			QL=4 ST=2 TYP=8
	8800	LEAR	4 S/F	0447.0	0447.0	1153.0	61.0			QL=4 ST=1 TYP=3
	4995	PALE	49 GB	0447.0	0455.0	1153.0	890.0			QL=4 ST=1 TYP=6
	8800	SVTO	48 C	0449.0	0457.0	36.0	910.0			QL=4 ST=2 TYP=8
	410	LEAR	48 C	0450.0	0453.0	16.0	310.0			QL=4 ST=2 TYP=8

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

JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
27	15400	LEAR	49 GB	0450.0	0457.0	40.0	620.0			QL=4 ST=2 TYP=6
	245	SVTO	48 C	0451.0	0458.0	10.0	310.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	0451.0	0457.0	40.0	580.0			QL=4 ST=2 TYP=8
	15400	SVTO	4 S/F	0451.0	0452.0	1149.0	72.0			QL=4 ST=1 TYP=3
	8800	PALE	48 C	0454.0	0457.0	3.0	610.0			QL=4 ST=2 TYP=8
	8800	PALE	4 S/F	0454.0	0455.0	1146.0	350.0			QL=4 ST=1 TYP=3
	900	GORK	29 PBI	0530.0	0530.0	63.0	120.0			
	2950	GORK	30 PBI	0530.0	0530.0	83.3	110.0			
	9100	GORK	29 PBI	0530.0	0530.0	270.0	92.0			
	2950	GORK	7 C	0643.7	0645.4	9.5	2.2			
	2950	GORK	7 C	0643.7	0648.7		2.2			
	900	GORK	40 F	0645.2	0648.4	7.5	6.1			
	1415	SGMR	8 S	1718.0	1718.0	1.0	57.0			QL=4 ST=2 TYP=3
28	2840	PEKG	1 S	0008.0	0012.9	9.0	4.9			
	9100	GORK	23 GRF	0521.0	0628.0	160.8	18.0			
	9100	GORK	23 GRF	0521.0	0653.2		14.0			
	2840	PEKG	3 S	0614.0	0626.6	26.0	27.9			
	900	GORK	4 S/F	0615.0	0628.0	29.4	24.0			
	2950	GORK	46 C	0615.6	0627.6		23.0			
	2950	GORK	46 C	0615.6	0626.6	22.6	23.0			
	2800	HIRA	4 S/F	0616.0	0627.0	23.0	25.0			0
	410	PALE	8 S	1734.0	1734.0	1.0	58.0			QL=4 ST=2 TYP=3
	15400	SGMR	49 GB	2142.0	2154.0	28.0	2200.0			QL=4 ST=2 TYP=6
	8800	SGMR	48 C	2142.0	2153.0	38.0	1700.0			QL=4 ST=2 TYP=8
	4995	SGMR	49 GB	2142.0	2154.0	38.0	800.0			QL=4 ST=2 TYP=6
	4995	SGMR	48 C	2142.0	2151.0	138.0	390.0			QL=4 ST=1 TYP=8
	8800	SGMR	48 C	2142.0	2152.0	138.0	1000.0			QL=4 ST=1 TYP=8
	15400	SGMR	48 C	2142.0	2152.0	138.0	1000.0			QL=4 ST=1 TYP=8
	2800	HIRA	4 S/F	2143.0	2154.0	38.0	55.0			0
	2800	PENT	46 C	2147.0	2154.0	22.0	112.0			
	8800	PALE	48 C	2149.0	2154.0	15.0	1300.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	2149.0	2154.0	10.0	1000.0			QL=4 ST=2 TYP=8
	4995	PALE	49 GB	2149.0	2154.0	14.0	580.0			QL=4 ST=2 TYP=6
	8800	PALE	48 C	2149.0	2153.0	131.0	890.0			QL=4 ST=1 TYP=8
	15400	PALE	48 C	2149.0	2153.0	131.0	630.0			QL=4 ST=1 TYP=8
	4995	PALE	4 S/F	2149.0	2153.0	131.0	360.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	2150.0	2154.0	19.0	60.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2150.0	2151.0	130.0	34.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	2152.0	2204.0	12.0	34.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2153.0	2201.0	15.0	61.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	2158.0	2204.0	7.0	58.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2201.0	2201.0	U	70.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2201.0	2201.0	U	35.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	2205.0E	2205.5	16.0D	44.5			
29	410	LEAR	8 S	0439.0	0439.0	U	60.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0605.0	0605.0	U	63.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	0912.1	0912.4	1.6	10.0			
	2800	PENT	24 R	1719.0	1729.0	38.0	15.0			
	4995	PALE	8 S	1727.0	1727.0	U	57.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1730.0	1730.0	U	21.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1730.0	1731.0	1.0	63.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1730.0	1731.0	1.0	130.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1730.0	1731.0	1.0	140.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1731.0	1731.0	U	30.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1731.0	1731.0	U	38.0			QL=4 ST=2 TYP=3
30	127	TORN	43 NS	0652.0		298.0		11.0		V=1
	2800	HIRA	7 C	0503.0	0513.0	32.0	35.0			0
	900	GORK	46 C	0506.0	0512.6	36.0	16.0			
	900	GORK	46 C	0506.0	0521.7		19.0			
	2840	PEKG	3 S	0507.0	0512.2	18.0	38.1			
	2950	GORK	46 C	0508.0	0512.1	15.2	33.0			
	2950	GORK	46 C	0508.0	0516.4		20.0			
	2695	SVTO	4 S/F	0511.0	0512.0	10.0	46.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0511.0	0517.0	16.0	30.0			QL=4 ST=2 TYP=3
	9100	GORK	48 C	0511.5	0632.5		3100.0			
	9100	GORK	48 C	0511.5	0625.9		2580.0			

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

Outstanding Occurrences

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
30	9100	GORK	48 C	0511.5	0621.9	108.5	360.0			
	410	SVTO	4 S/F	0512.0	0521.0	14.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0515.0	0521.0	11.0	70.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0519.0	0524.0	8.0	33.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0521.0	0521.0	2.0	76.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0521.0	0521.0	U	86.0			QL=4 ST=2 TYP=3
	2950	GORK	29 PBI	0524.0	0524.0	14.4	4.9			
	410	SVTO	48 C	0539.0	0626.0	146.0	1500.0			QL=4 ST=2 TYP=8
	900	GORK	47 GB	0543.5	0626.1	184.5	8050.0			
	900	GORK	47 GB	0543.5	0737.8		2650.0			
	2840	PEKG	47 GB	0550.0	0636.5	165.0	2012.5			
	2950	GORK	22 GRF	0551.7	0608.1		6.9			
	2950	GORK	22 GRF	0551.7	0559.7	23.3	6.0			
	610	SVTO	4 S/F	0612.0	0612.0	3.0	54.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	0612.0	0626.0	114.0	2000.0			QL=2 ST=2 TYP=8
	2950	GORK	48 C	0618.7	0632.4	35.3	2100.0			
	2950	GORK	48 C	0618.7	0636.6		2150.0			
	2695	LEAR	48 C	0619.0	0636.0	59.0	2100.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0619.0	0632.0	68.0	3100.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	0619.0	0636.0	95.0	2100.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	0619.0	0632.0	95.0	4100.0			QL=4 ST=2 TYP=8
	2800	HIRA	47 GB	0619.0	0637.0	105.0	1740.0			
	2695	LEAR	48 C	0619.0	0624.0	1061.0	670.0			QL=4 ST=1 TYP=8
	4995	LEAR	48 C	0619.0	0624.0	1061.0	690.0			QL=4 ST=1 TYP=8
	4995	SVTO	49 GB	0619.0	0625.0	1061.0	2100.0			QL=4 ST=1 TYP=6
	8800	LEAR	48 C	0620.0	0632.0	35.0	3000.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	0620.0	0632.0	55.0	3200.0			QL=4 ST=2 TYP=8
	15400	LEAR	48 C	0620.0	0625.0	63.0	2200.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0620.0	0624.0	1060.0	900.0			QL=4 ST=1 TYP=8
	15400	LEAR	49 GB	0620.0	0624.0	1060.0	690.0			QL=4 ST=1 TYP=6
	8800	SVTO	4 S/F	0620.0	0621.0	1060.0	200.0			QL=4 ST=1 TYP=3
	245	LEAR	48 C	0621.0	0632.0	20.0	1000.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	0621.0	0632.0	20.0	1000.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	0621.0	0625.0	43.0	2300.0			QL=4 ST=2 TYP=8
	410	LEAR	48 C	0621.0	0626.0	58.0	1700.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0621.0	0626.0	59.0	2400.0			QL=4 ST=2 TYP=8
	1415	LEAR	49 GB	0621.0	0625.0	55.0	5600.0			QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	0621.0	0625.0	93.0	5400.0			QL=4 ST=2 TYP=6
	1415	LEAR	49 GB	0621.0	0624.0	1059.0	1500.0			QL=4 ST=1 TYP=6
	610	LEAR	4 S/F	0621.0	0623.0	1059.0	460.0			QL=4 ST=1 TYP=3
	1415	SVTO	49 GB	0621.0	0625.0	1059.0	5400.0			QL=4 ST=1 TYP=6
	1415	SVTO	4 S/F	0621.0	0621.0	1059.0	67.0			QL=4 ST=1 TYP=3
	127	TORN	47 GB	0630.0E	0633.4	12.0D	4600.0			
	33	UPIC	46 C	0630.0	0632.5	4.0				
	2950	GORK	30 PBI	0654.0	0654.0	66.0	37.0			
	9100	GORK	29 PBI	0700.0	0700.0	297.0D	90.0			
	2950	GORK	46 C	0705.3	0711.0		15.0			
	2950	GORK	46 C	0705.3	0708.1	23.0	15.0			
	610	LEAR	48 C	0731.0	0738.0	27.0	780.0			QL=4 ST=2 TYP=8
	2950	GORK	20 GRF	0731.2	0735.1	11.0	18.0			
	4995	LEAR	4 S/F	0732.0	0734.0	5.0	56.0			QL=4 ST=2 TYP=3
	410	LEAR	48 C	0732.0	0733.0	22.0	200.0			QL=4 ST=2 TYP=8
	4995	LEAR	20 GRF	0732.0	0734.0	21.0	56.0			QL=4 ST=2 TYP=2
	2695	LEAR	8 S	0734.0	0734.0	U	51.0			QL=4 ST=2 TYP=3
	2695	LEAR	20 GRF	0734.0	0751.0	20.0	68.0			QL=4 ST=2 TYP=2
	1415	LEAR	4 S/F	0737.0	0751.0	18.0	100.0			QL=4 ST=2 TYP=3
	2950	GORK	20 GRF	0747.6	0752.7	11.3	30.0			
	610	LEAR	8 S	0816.0	0816.0	U	52.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0819.0	0821.0	3.0	83.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0820.0	0820.0	U	54.0			QL=4 ST=2 TYP=3
	900	GORK	29 PBI	0848.0	0848.0	111.0	43.0			
	33	UPIC	45 C	0948.0	0948.5	1.0				
	33	UPIC	45 C	1227.5	1228.0	1.0				
	8800	SVTO	4 S/F	1646.0	1647.0	13.0	260.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1646.0	1647.0	12.0	380.0			QL=4 ST=2 TYP=3
	15400	SGMR	48 C	1646.0	1647.0	23.0	440.0			QL=4 ST=2 TYP=8
	8800	SGMR	4 S/F	1646.0	1647.0	23.0	320.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1646.0	1647.0	434.0	320.0			QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1646.0	1647.0	434.0	440.0			QL=4 ST=1 TYP=3

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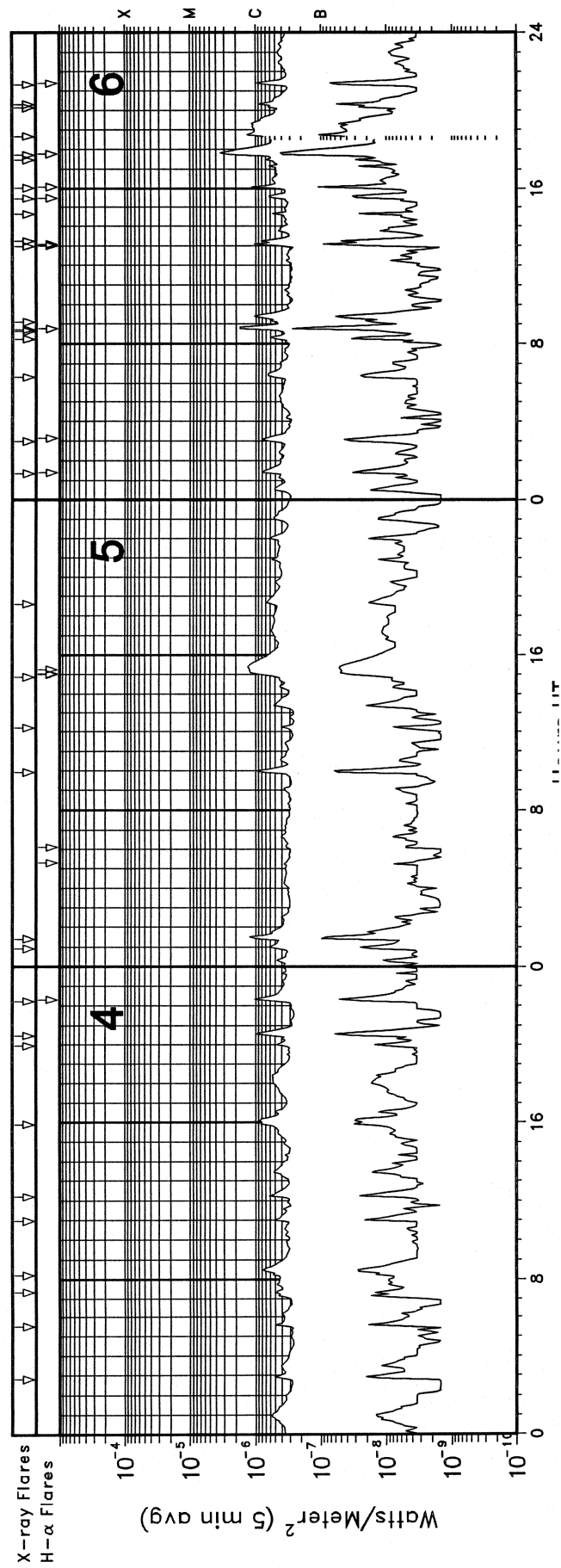
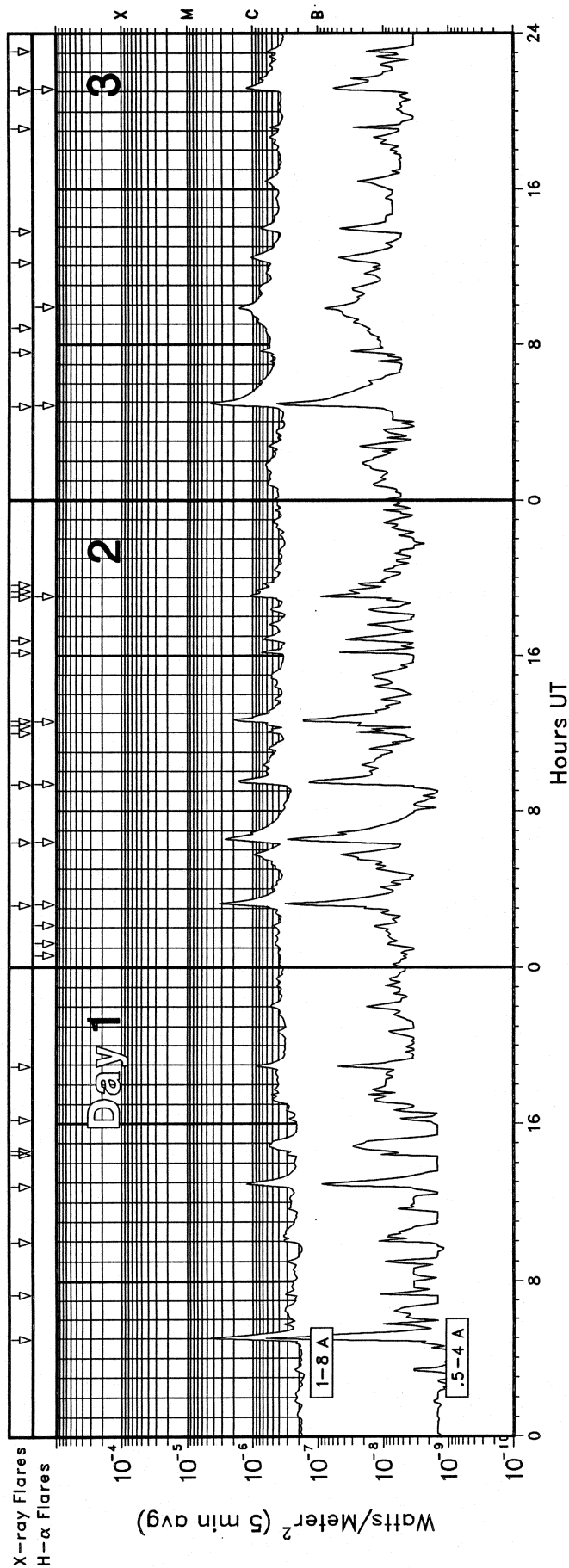
S O L A R R A D I O E M I S S I O N Outstanding Occurrences

JULY 2005

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
30	15400	PALE	4 S/F	1647.0	1647.0	6.0	320.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1647.0	1647.0	U	21.0			QL=4 ST=2 TYP=3
	8800	PALE	48 C	1647.0	1647.0	15.0	320.0			QL=4 ST=2 TYP=8
	4995	PALE	4 S/F	1647.0	1648.0	16.0	130.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1647.0	1647.0	14.0	30.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1647.0	1647.0	15.0	91.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1647.0	1647.0	14.0	110.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1647.0	1647.0	433.0	30.0			QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	1647.0	1647.0	433.0	91.0			QL=4 ST=1 TYP=3
	245	SGMR	4 S/F	1648.0	1708.0	22.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1648.0	1648.0	432.0	46.0			QL=4 ST=1 TYP=3
	245	PALE	8 S	1649.0	1649.0	U	53.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1652.0	1653.0	7.0	35.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1652.0	1701.0	9.0	67.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1657.0	1658.0	2.0	27.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1701.0	1701.0	1.0	76.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1701.0	1701.0	U	81.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1707.0	1708.0	3.0	150.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1708.0	1708.0	2.0	140.0			QL=4 ST=2 TYP=3
31	127	TORN	43 NS	0740.0		440.0		16.0		V=1
	9100	GORK	3 S	0801.1	0801.4	1.4	24.0			
	9100	GORK	46 C	0838.2	0840.2		21.0			
	9100	GORK	46 C	0838.2	0839.5	5.5	36.0			
	9100	GORK	29 PBI	0843.7	0843.7	17.1	14.0			
	2840	PEKG	3 S	0908.0	0912.6	10.0	40.4			
	9100	GORK	46 C	0908.4	0912.0	10.0	75.0			
	9100	GORK	46 C	0908.4	0913.5		65.0			
	9100	GORK	46 C	0908.4	0912.6		98.0			
	8800	LEAR	8 S	0911.0	0912.0	2.0	79.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0912.0	0912.0	U	64.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0912.0	0912.0	U	130.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0912.0	0912.0	1.0	41.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0912.0	0912.0	2.0	170.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0912.0	0912.0	3.0	100.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0912.0	0912.0	3.0	95.0			QL=4 ST=2 TYP=3
	9100	GORK	30 PBI	0918.0	0918.0	56.2	10.0			
	2840	PEKG	1 S	0919.0	0921.7	7.0	9.4			
	9100	GORK	20 GRF	0919.3	0923.5	15.2	16.0			
	9100	GORK	5 S	0956.8	0957.7	2.2	7.5			
	4995	SVTO	4 S/F	1218.0	1220.0	8.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1218.0	1220.0	8.0	190.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1218.0	1220.0	6.0	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1218.0	1220.0	11.0	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1218.0	1220.0	10.0	180.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1218.0	1220.0	14.0	210.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1218.0	1220.0	702.0	110.0			QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	1218.0	1220.0	702.0	180.0			QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1218.0	1220.0	702.0	210.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	1219.0	1220.0	4.0	60.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1219.0	1220.0	2.0	51.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1219.0	1220.0	10.0	60.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1220.0	1220.0	U	22.0			QL=4 ST=2 TYP=3

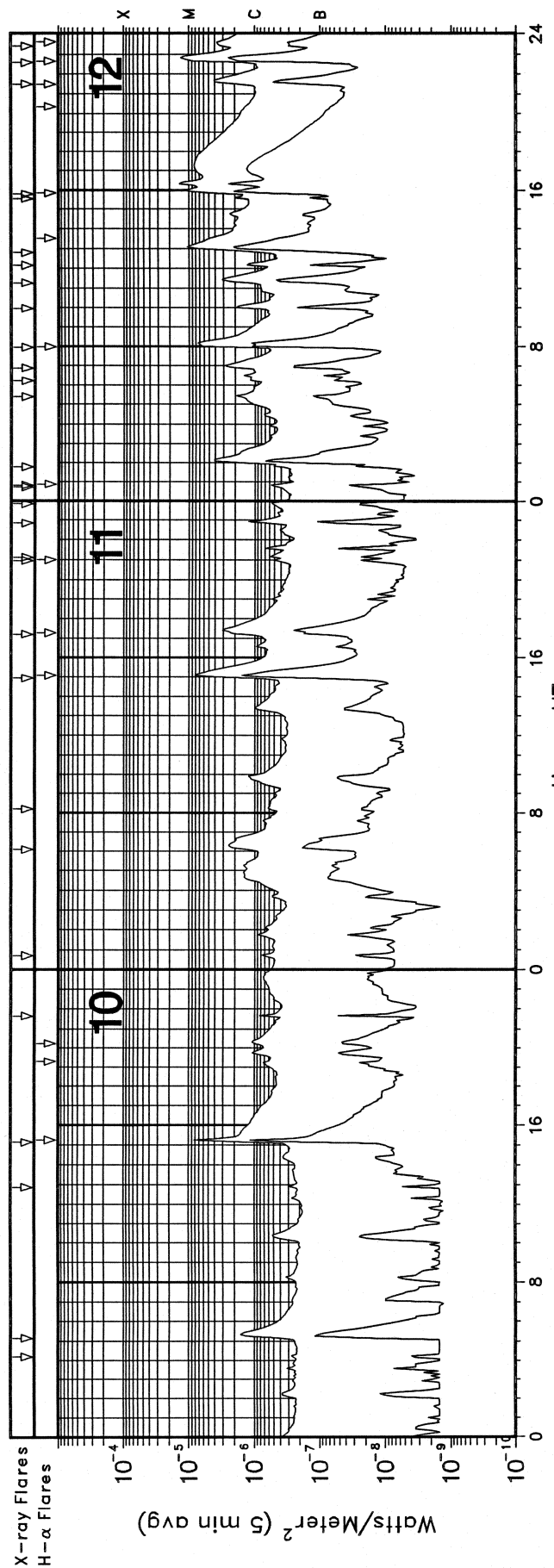
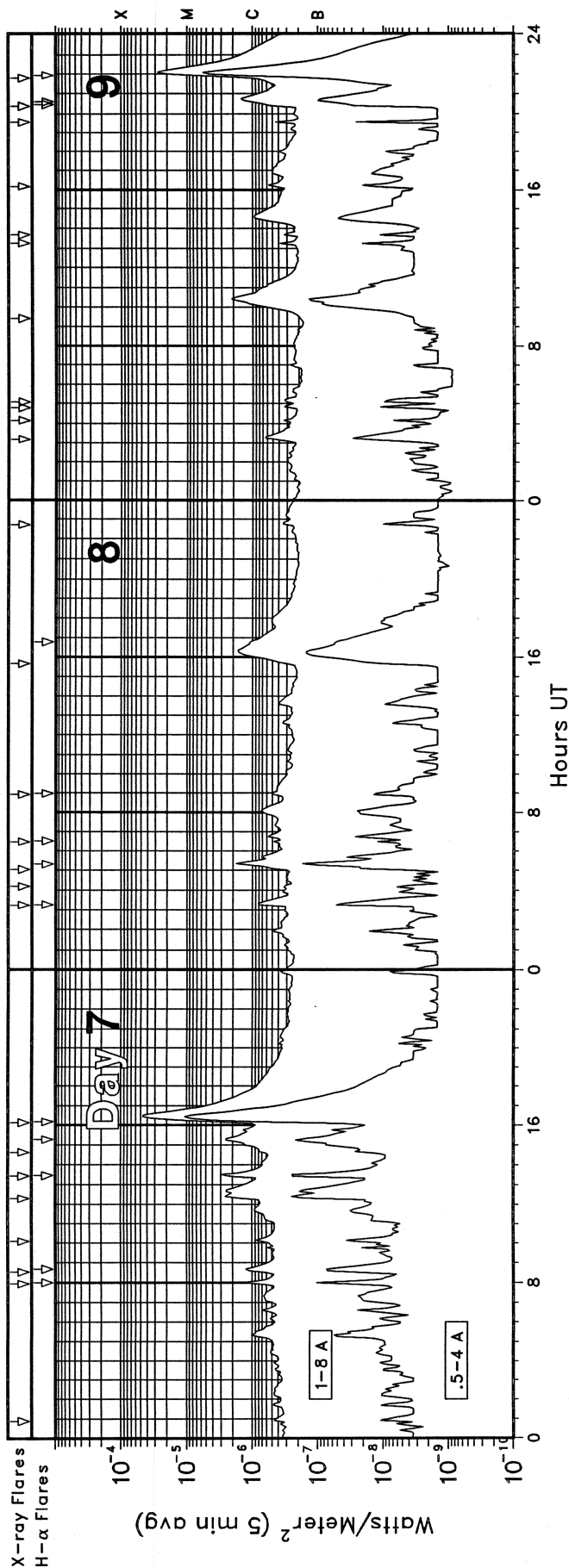
GOES X-RAY DETECTOR

July 2005



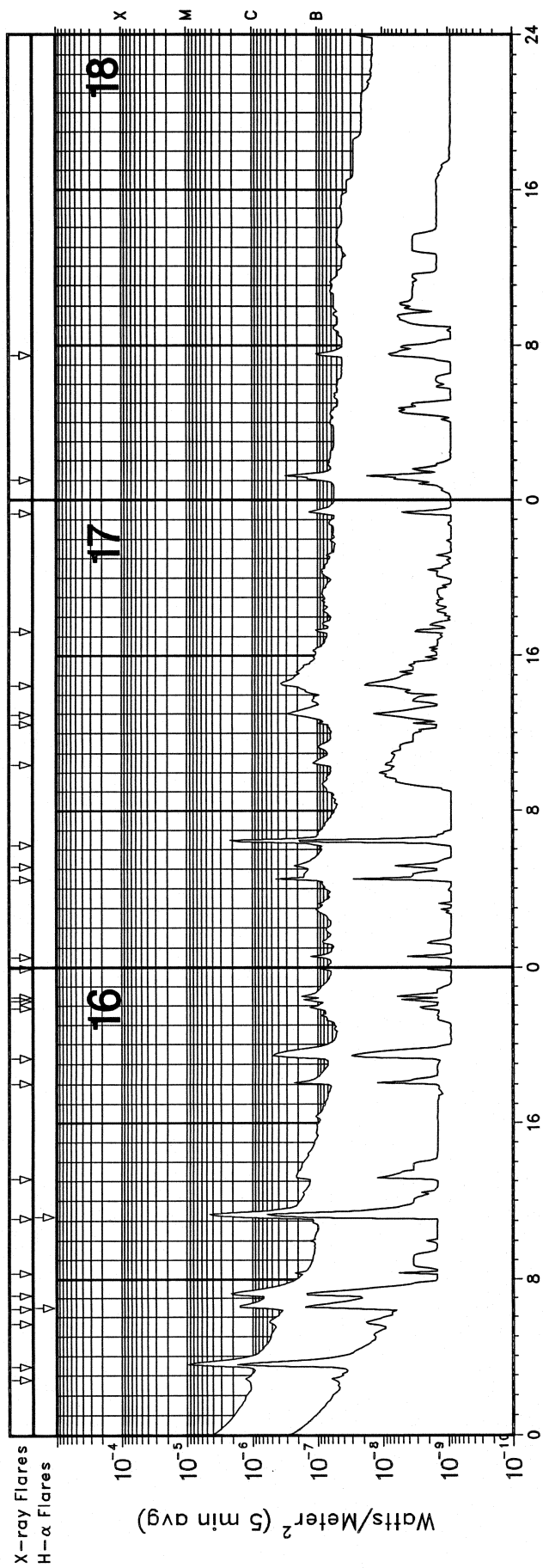
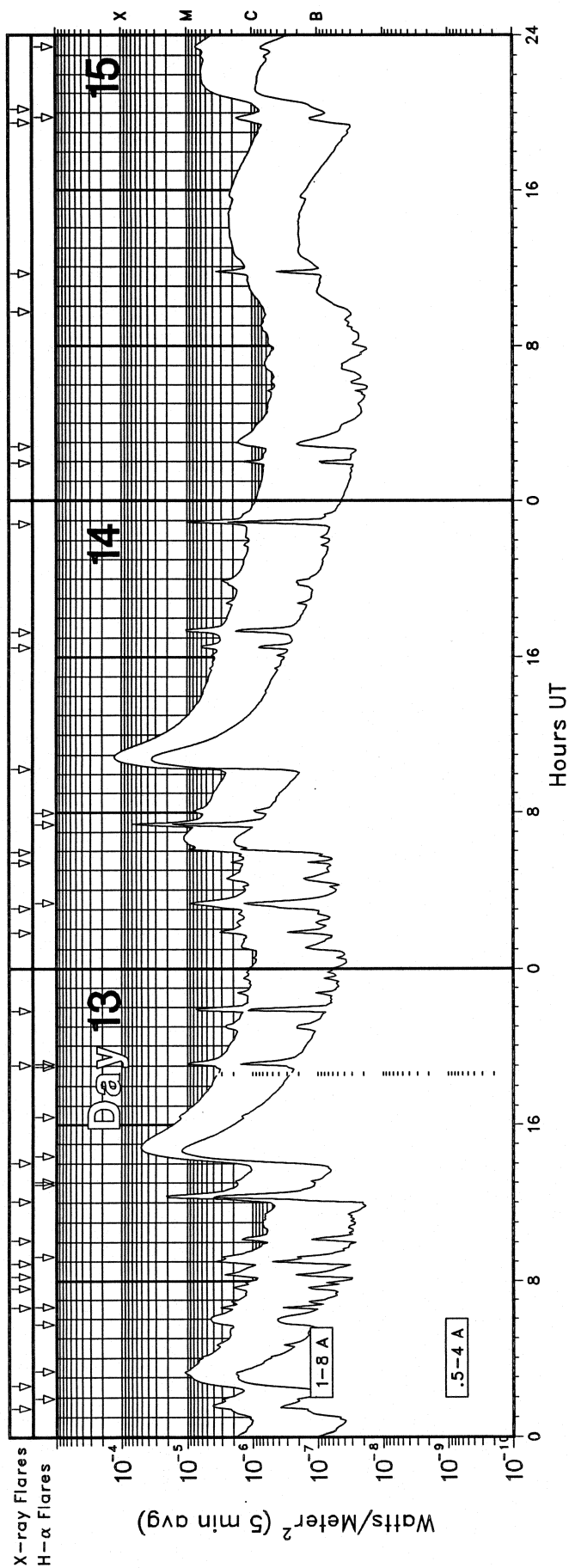
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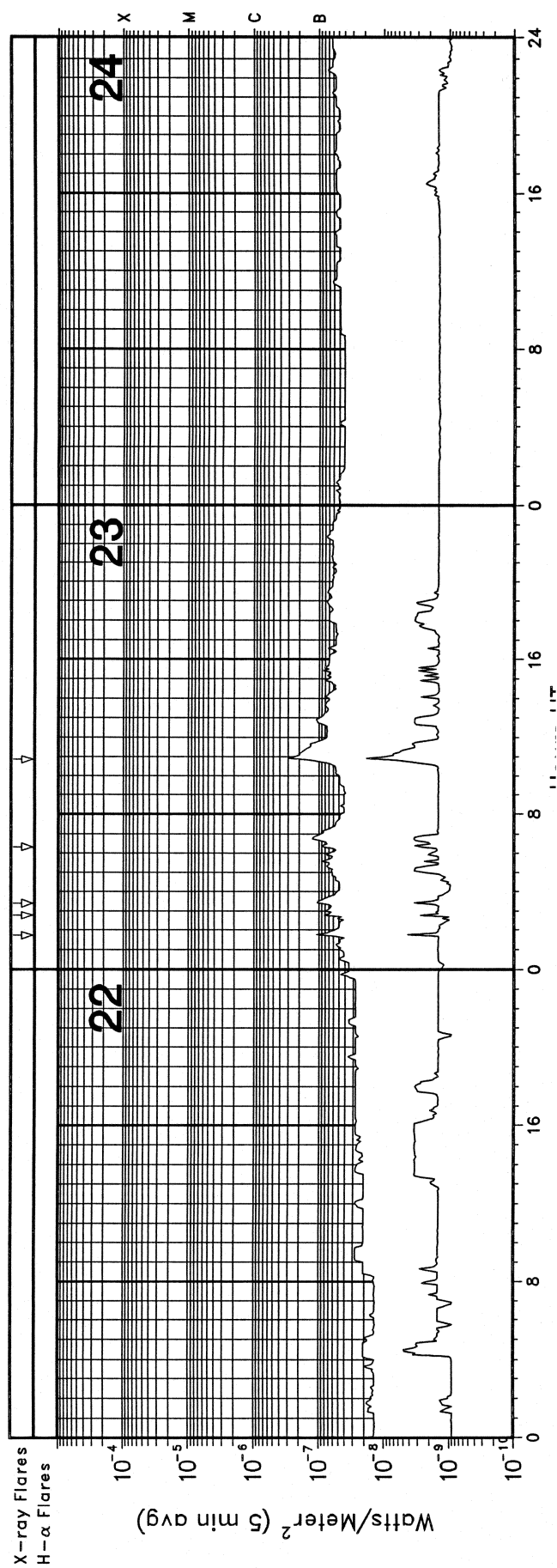
July 2005



GOES X-RAY DETECTOR

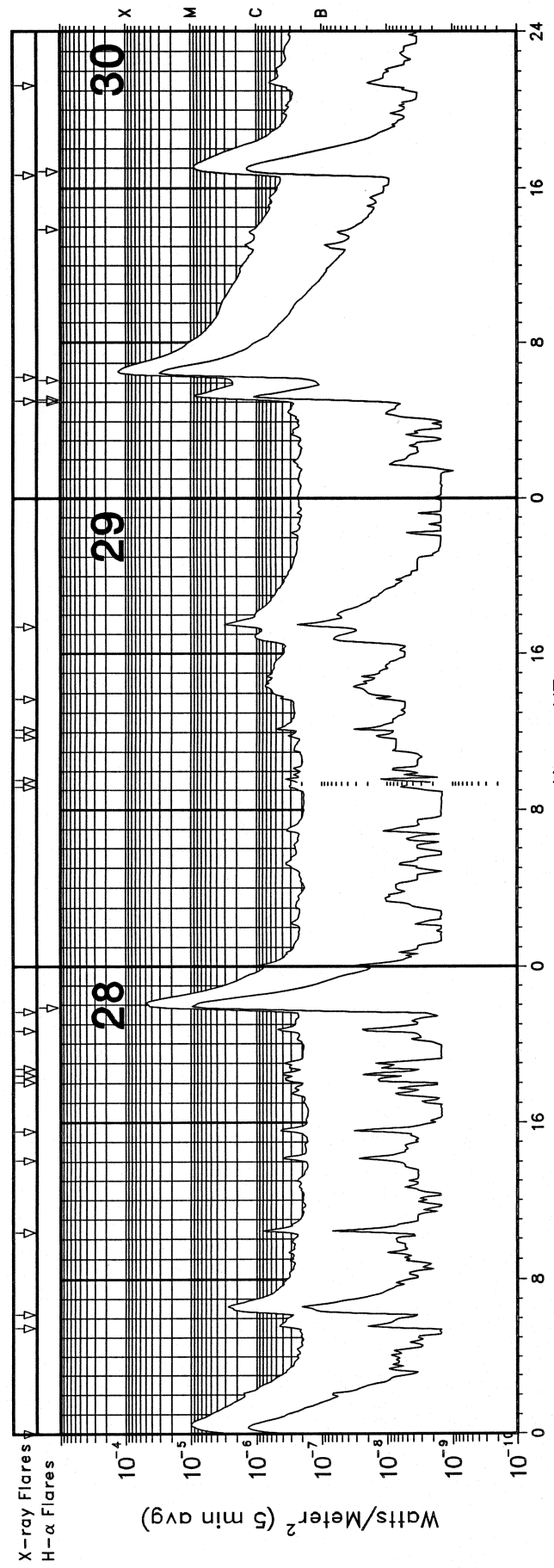
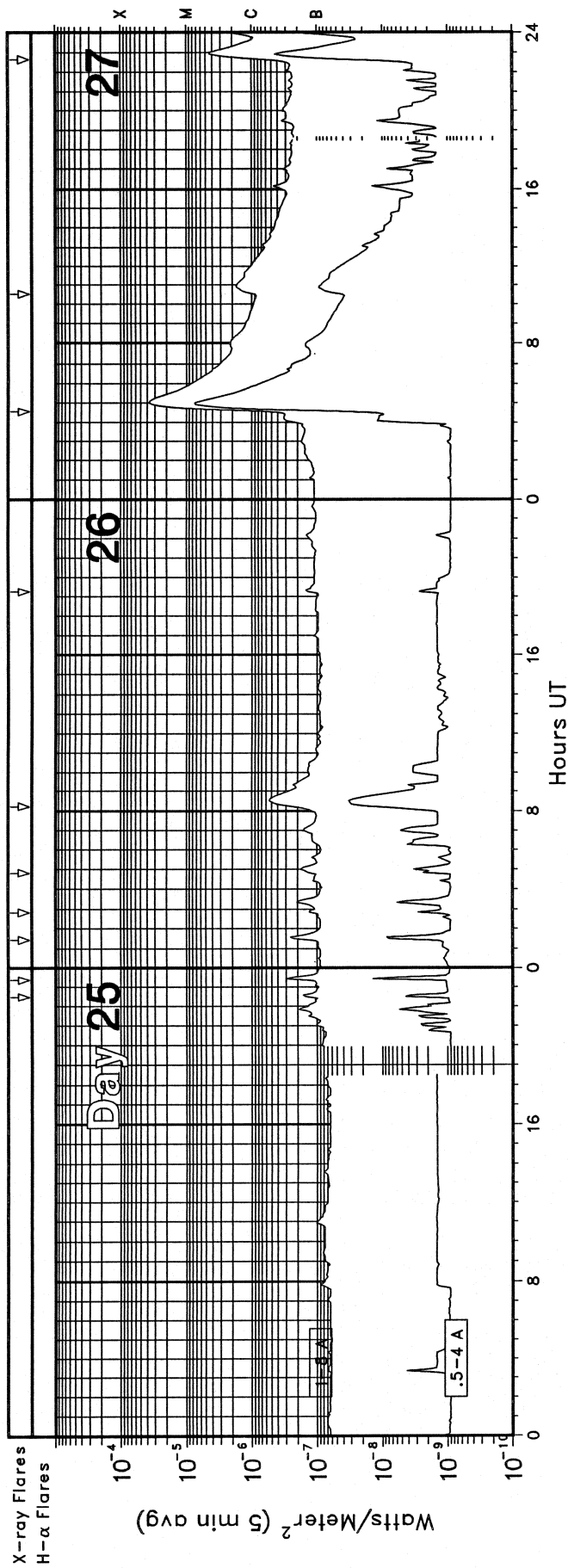
July 2005





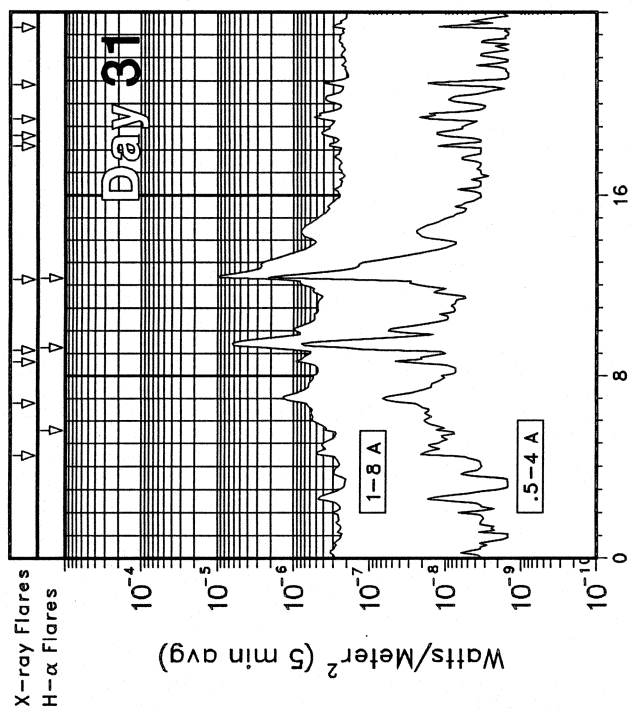
GOES X-RAY DETECTOR

July 2005



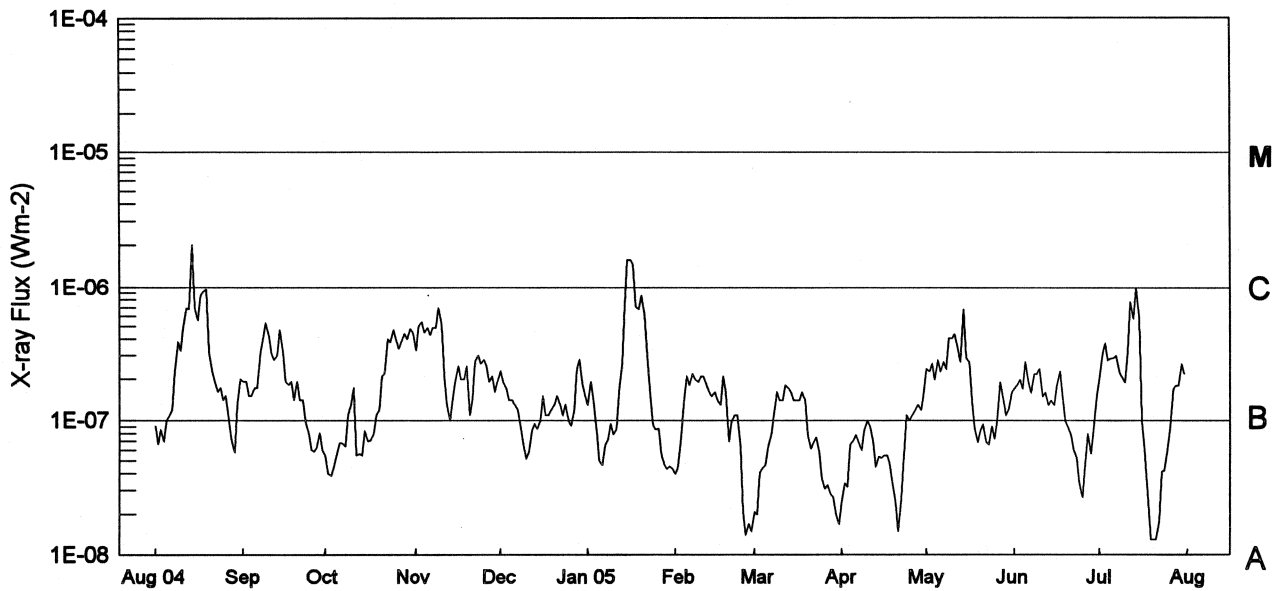
GOES X-RAY DETECTOR

July 2005



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

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Jul 05



Day	Aug 04	Sep	Oct	Nov	Dec	Jan 05	Feb	Mar	Apr	May	Jun	Jul
1	A9.1	B1.9	A4.0	B3.3	B2.3	B1.3	A4.0	A2.1	A2.5	B2.4	B1.7	B2.0
2	A6.6	B1.9	A3.9	B5.1	B1.9	B1.9	A4.5	A2.0	A3.4	B2.3	B1.8	B3.1
3	A8.5	B1.5	A4.5	B5.4	B1.7	B1.4	A7.6	A4.1	A3.2	B2.6	B2.0	B3.7
4	A7.0	B1.5	A5.7	B4.5	B1.4	A8.3	B1.3	A4.5	A6.6	B2.0	B1.7	B2.8
5	B1.0	B1.7	A6.8	B4.9	B1.4	A5.0	B2.1	A4.7	A7.1	B2.8	B2.7	B2.9
6	B1.1	B1.7	A6.8	B4.3	B1.3	A4.7	B1.8	A6.4	A7.8	B2.3	B1.9	B2.9
7	B1.2	B3.2	A6.4	B4.9	B1.2	A6.5	B2.2	A7.8	A6.9	B2.7	B1.6	B3.0
8	B2.3	B4.0	B1.1	B4.9	A9.2	A7.3	B2.0	B1.1	A6.1	B2.4	B2.2	B2.3
9	B3.8	B5.3	B1.3	B7.0	A6.8	A9.5	B1.9	B1.6	A8.5	B4.1	B2.2	B2.1
10	B3.3	B4.3	B1.7	B5.2	A5.2	A7.9	B2.1	B1.4	B1.0	B4.1	B2.4	B1.9
11	B4.9	B3.1	A5.5	B2.1	A5.8	A8.6	B2.1	B1.4	A9.2	B4.4	B1.5	B3.2
12	B6.9	B2.8	A5.6	B1.3	A8.5	B1.6	B1.8	B1.8	A6.9	B3.4	B1.6	B7.8
13	B6.8	B3.0	A5.5	B1.0	A9.5	B2.6	B1.6	B1.7	A4.6	B2.7	B1.3	B5.8
14	C2.0	B4.7	A8.3	B1.4	A8.7	B7.3	B1.5	B1.6	A5.4	B6.8	B1.4	C1.0
15	B7.0	B3.2	A7.0	B1.9	B1.0	C1.6	B1.6	B1.4	A5.3	B2.9	B1.3	B5.9
16	B5.6	B1.9	A7.1	B2.5	B1.5	C1.6	B1.4	B1.4	A5.5	B2.7	B1.8	B1.0
17	B8.7	B1.8	A7.9	B2.0	B1.1	C1.5	B1.3	B1.4	A5.5	B1.4	B2.3	A5.4
18	B9.2	B1.9	B1.1	B2.0	B1.1	B7.1	B2.1	B1.6	A4.8	A8.8	B1.5	A2.9
19	B9.7	B1.4	B1.2	B2.5	B1.2	B6.8	B1.6	B1.4	A3.5	A6.9	B1.0	A1.3
20	B3.2	B1.9	B2.1	B1.1	B1.3	B8.7	A7.0	A7.7	A2.5	A8.4	A8.8	A1.3
21	B2.3	B1.4	B2.2	B1.4	B1.5	B6.2	A9.9	A6.2	A1.5	A9.4	A7.8	A1.3
22	B1.9	B1.4	B4.0	B2.7	B1.3	B3.0	B1.1	A6.9	A2.6	A6.9	A6.1	A1.8
23	B1.6	A9.8	B3.8	B3.0	B1.1	B1.5	B1.1	A7.5	A5.5	A6.6	A5.3	A4.2
24	B1.7	A8.1	B4.7	B2.6	B1.3	A9.3	A6.4	A5.8	B1.1	A9.1	A3.4	A4.3
25	B1.4	A6.1	B3.9	B2.8	B1.0	A8.6	A2.1	A3.7	B1.0	A7.3	A2.7	A6.3
26	B1.5	A5.9	B3.4	B2.5	A9.2	A8.7	A1.4	A3.1	B1.1	A9.9	A4.8	A8.9
27	B1.0	A6.2	B3.9	B1.9	B1.2	A5.6	A1.7	A3.3	B1.2	B1.9	A8.0	B1.7
28	A7.1	A8.1	B4.4	B2.1	B2.4	A4.7	A1.5	A2.8	B1.3	B1.5	A5.7	B1.8
29	A5.8	A6.1	B4.0	B1.6	B2.8	A4.4		A2.7	B1.2	B1.1	A8.6	B1.8
30	B1.3	A5.4	B4.8	B1.9	B1.8	A4.6		A2.0	B1.6	B1.2	B1.5	B2.6
31	B2.0		B4.5		B1.5	A4.4		A1.7		B1.6		B2.2

Levels below B1.0 are unreliable.

ACTIVE PROMINENCES AND FILAMENTS

JULY 2005

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
04	DSF	1710U	0417U	S17	W13	07	3.7		11	0	0	E	SVTO		
05	DSF	0205U	1220U	S22	W22	07	3.4	3	26	0	0	E	HOLL		
07	DSF	1033	1148	N07	E00	07	7.4	2	11	0	0	E	SVTO	0786	
09	DSF	2122U	1256U	S31	E03	07	10.1		14	0	0	E	HOLL		
10	EPL	1535	1555	N08	W90	07	3.9	3		9	9	E	HOLL	0783	
13	LPS	0517E	0935	N13	W90	07	6.3			9	9	E	LEAR	0786	
14	BSL	0722	0808D	N06	W90	07	7.6			9	9	E	LEAR	0786	Flare Associated
14	LPS	1146	1748	N11	W90	07	7.7			9	9	E	SVTO	0786	
14	APR	1250E	1350D	N12	W90	07	7.7	2	10	9	9	V	KHAR		
14	LPS	1305E	2338	N12	W90	07	7.8	1		9	9	E	HOLL	0786	
14	EPL	1647	1733	N10	W90	07	7.9	3		9	9	E	HOLL	0786	
14	BSL	1648	1713	N12	W90	07	7.9			9	9	E	SVTO	0786	
14	EPL	1807	1859	N09	W90	07	8.0	3		8	7	E	HOLL	0786	
14	LPS	2324E	0455D	N06	W90	07	8.2			9	9	E	LEAR	0786	
15	EPL	0731E	0828D	N08	W90	07	8.6	3		9	9	E	LEAR	0786	
15	BSL	0800E	0821	N09	W90	07	8.6			9	9	E	SVTO	0786	
16	LPS	0432E	0630	N17	W90	07	9.3			9	9	E	SVTO		
27	EPL	0439	0511	N10	E90	08	2.9	1		9	9	E	LEAR		
27	EPL	0440	0459	N11	E90	08	3.0	1		9	9	E	SVTO		
28	LPS	0247E	0416D	N09	E90	08	3.9			9	9	E	LEAR		
28	DSF	1700U	0521U	S25	W05	07	28.3		12	0	0	E	SVTO		
28	DSF	1700U	0607	S16	E28	07	30.8		16	0	0	E	SVTO		
28	BSL	2154	2225	N12	E90	08	4.7			9	9	E	HOLL	0792	Flare Associated
29	DSF	0108U	1324U	S25	E33	07	31.6		13	0	0	E	HOLL		
29	EPL	1739	1825	N18	E71	08	4.1			9	9	E	HOLL	0792	

ADF = Active Dark Filament
 AFS = Arch Filament System
 APR = Active Prominence
 ASR = Active Surge Region
 BSD = Bright Surge on Disk

BSL = Bright Surge on Limb
 CAP = CAP Prominence (Tandberg-Hanssen)
 CRN = Coronal Rain
 DSD = Dark Surge on Disk
 DSF = Disappearing Solar Filament

EPL = Eruptive Prominence on Limb
 LPS = Loops
 MDP = Mound Prominence
 SDF/DSF = Sudden Disappearing Filament
 SPY = Spray
 SSB = Solar Sector Boundary

For SOLAR SECTOR BOUNDARY REPORTS, the latitude field contains the Carrington longitude of the point where a neutral line crosses the solar equator. The comments field may contain the Carrington longitude and central meridian distance of two more intersection points.

The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
 The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

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

ABST = Abastumani
 ATHN = Athens
 BUCA = Bucharest
 CATA = Catania

HOLL = Holloman
 KHAR = Kharkov
 LEAR = Learmonth
 PALE = Palehua

RAMY = Ramey
 SVTO = San Vito
 VORO = Voroshilov
 VALA = Valasske Mezirici
 WROC = Wroclaw

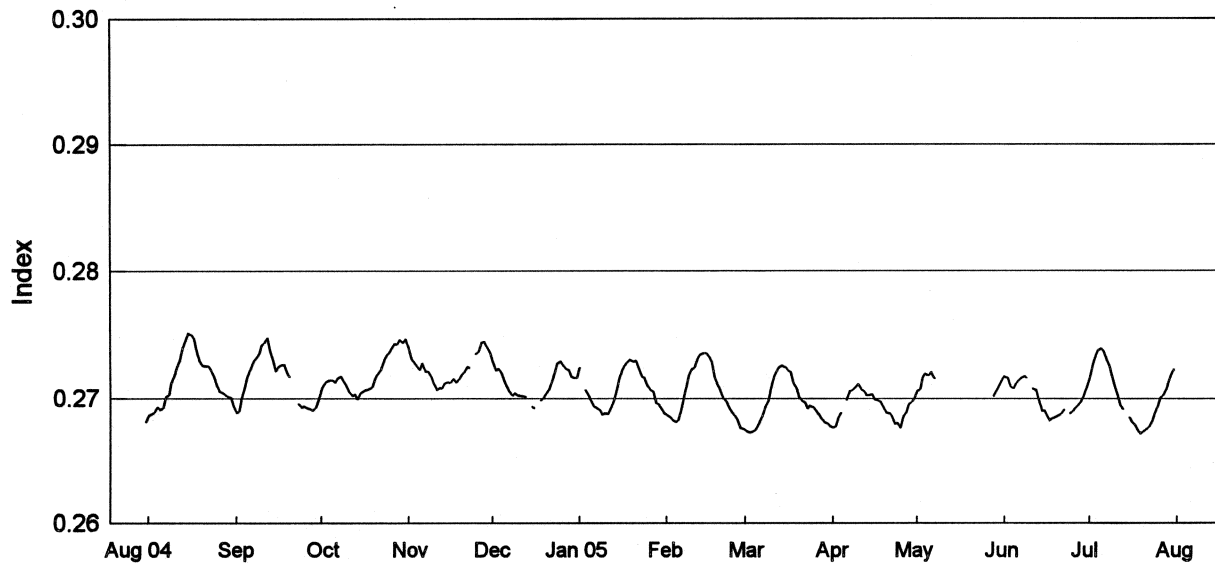
NOTE: The U.S. Air Force solar observing sites (HOLL, LEAR, RAMY, AND SVTO) have changed operational requirements and will only report the following: BSL, EPL, LPS, SPY, and DSF's.

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

Aug 2004 - Jul 2005

Version 9.1

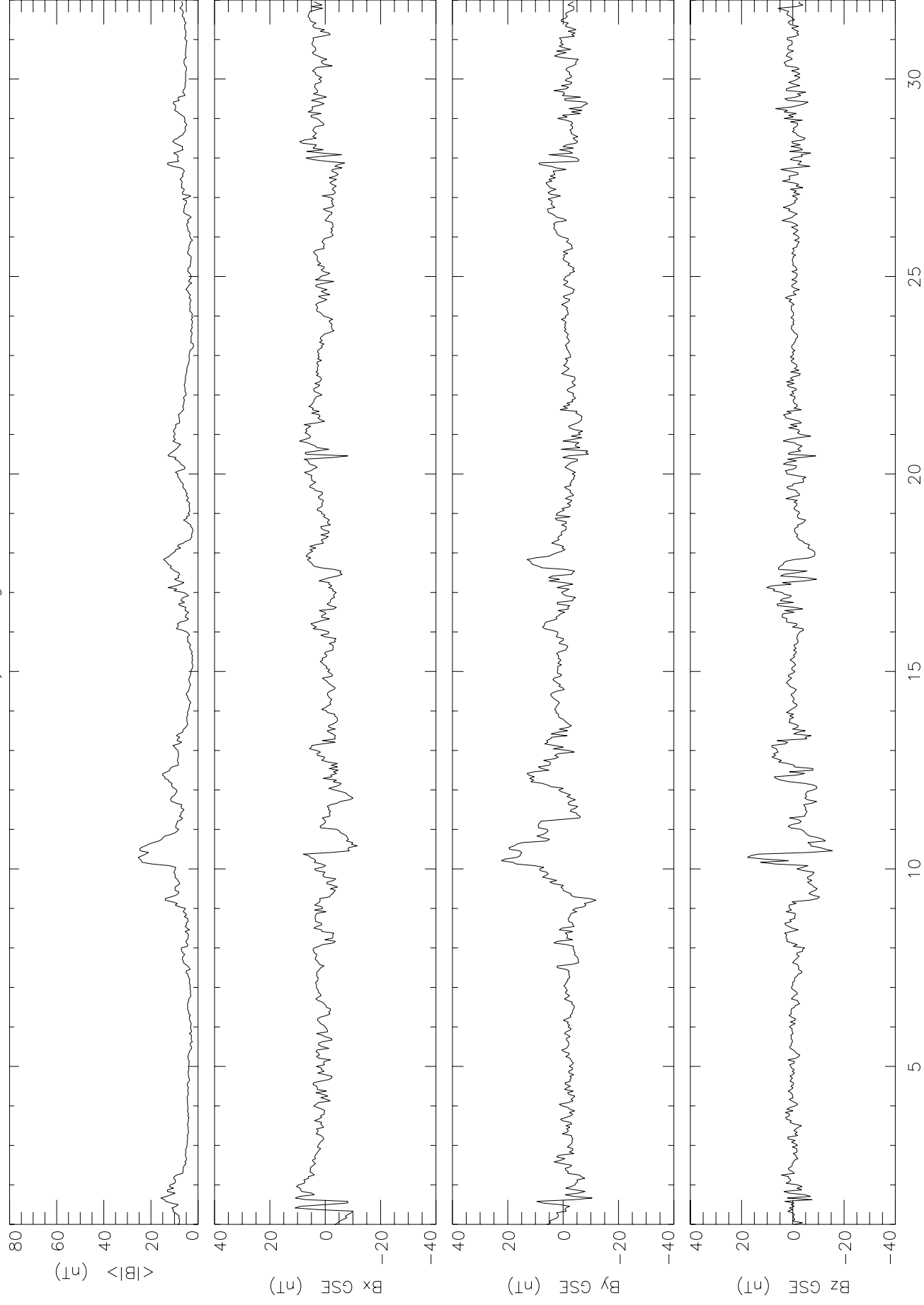
3
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Day	Aug 04	Sep	Oct	Nov	Dec	Jan 05	Feb	Mar	Apr	May	Jun	Jul
1	0.2686	0.2689	0.2707	0.2739	0.2729	0.2724	0.2687	0.2675	0.2677	0.2706	0.2718	0.2715
2	0.2688	0.2690	0.2711	0.2731	0.2723	—	0.2685	0.2673	0.2678	0.2707	0.2716	0.2726
3	0.2689	0.2701	0.2713	0.2729	0.2724	0.2707	0.2683	0.2673	0.2685	0.2718	0.2710	0.2732
4	0.2693	0.2709	0.2715	0.2725	0.2720	0.2702	0.2682	0.2674	0.2689	0.2720	0.2708	0.2738
5	0.2691	0.2717	0.2714	0.2722	0.2714	0.2697	0.2683	0.2677	—	0.2719	0.2712	0.2739
6	0.2692	0.2724	0.2712	0.2728	0.2709	0.2694	0.2691	0.2681	0.2699	0.2721	0.2715	0.2737
7	0.2701	0.2728	0.2717	0.2721	0.2705	0.2693	0.2701	0.2687	0.2706	0.2715	0.2717	0.2730
8	0.2703	0.2732	0.2718	0.2721	0.2702	0.2691	0.2709	0.2693	0.2706	—	0.2718	0.2726
9	0.2711	0.2735	0.2713	0.2717	0.2704	0.2687	0.2719	0.2698	0.2709	—	0.2716	0.2718
10	0.2718	0.2742	0.2709	0.2712	0.2702	0.2689	0.2724	0.2708	0.2712	—	—	0.2708
11	0.2724	0.2743	0.2704	0.2707	0.2702	0.2687	0.2725	0.2718	0.2708	—	0.2708	0.2702
12	0.2730	0.2748	0.2702	0.2708	0.2702	0.2692	0.2732	0.2722	0.2706	—	0.2707	0.2694
13	0.2739	0.2737	0.2703	0.2708	0.2701	0.2698	0.2734	0.2725	0.2703	—	0.2699	0.2691
14	0.2746	0.2729	0.2700	0.2712	—	0.2707	0.2736	0.2726	0.2703	—	0.2690	—
15	0.2752	0.2721	0.2705	0.2713	0.2693	0.2716	0.2736	0.2725	0.2703	—	0.2690	0.2685
16	0.2750	0.2725	0.2706	0.2712	0.2692	0.2722	0.2732	0.2723	0.2700	—	0.2686	0.2681
17	0.2747	0.2727	0.2707	0.2715	—	0.2726	0.2728	0.2721	0.2699	—	0.2683	0.2679
18	0.2737	0.2726	0.2708	0.2712	0.2698	0.2728	0.2717	0.2712	0.2697	—	0.2685	0.2674
19	0.2728	0.2719	0.2709	0.2716	0.2700	0.2731	0.2712	0.2708	0.2692	—	0.2685	0.2672
20	0.2726	0.2717	0.2715	0.2719	0.2704	0.2729	0.2706	0.2701	0.2689	—	0.2687	0.2674
21	0.2726	—	0.2719	0.2721	0.2707	0.2729	0.2701	0.2699	0.2689	—	0.2688	0.2676
22	0.2726	—	0.2722	0.2725	0.2714	0.2723	0.2698	0.2697	0.2685	—	0.2691	0.2677
23	0.2722	0.2695	0.2727	0.2724	0.2720	0.2718	0.2693	0.2692	0.2680	—	—	0.2682
24	0.2717	0.2693	0.2732	—	0.2727	0.2716	0.2689	0.2694	0.2681	—	0.2688	0.2688
25	0.2710	0.2694	0.2736	0.2735	0.2729	0.2710	0.2686	0.2693	0.2677	—	0.2690	0.2694
26	0.2706	0.2692	0.2739	0.2737	0.2726	0.2707	0.2684	0.2690	0.2685	—	0.2692	0.2701
27	0.2705	0.2692	0.2743	0.2744	0.2724	0.2705	0.2677	0.2687	0.2689	—	0.2694	0.2702
28	0.2704	0.2690	0.2743	0.2745	0.2723	0.2697	0.2676	0.2684	0.2695	0.2702	0.2698	0.2707
29	0.2702	0.2693	0.2746	0.2741	0.2717	0.2695		0.2682	0.2697	0.2706	0.2702	0.2714
30	0.2701	0.2699	0.2744	0.2736	0.2716	0.2691		0.2680	0.2700	0.2710	0.2709	0.2720
31	0.2694		0.2747		0.2716	0.2689		0.2678		0.2715		0.2724
Mean	0.2715	0.2715	0.2719	0.2723	0.2723	0.2707	0.2707	0.2697	0.2694	0.2712	0.2700	0.2703

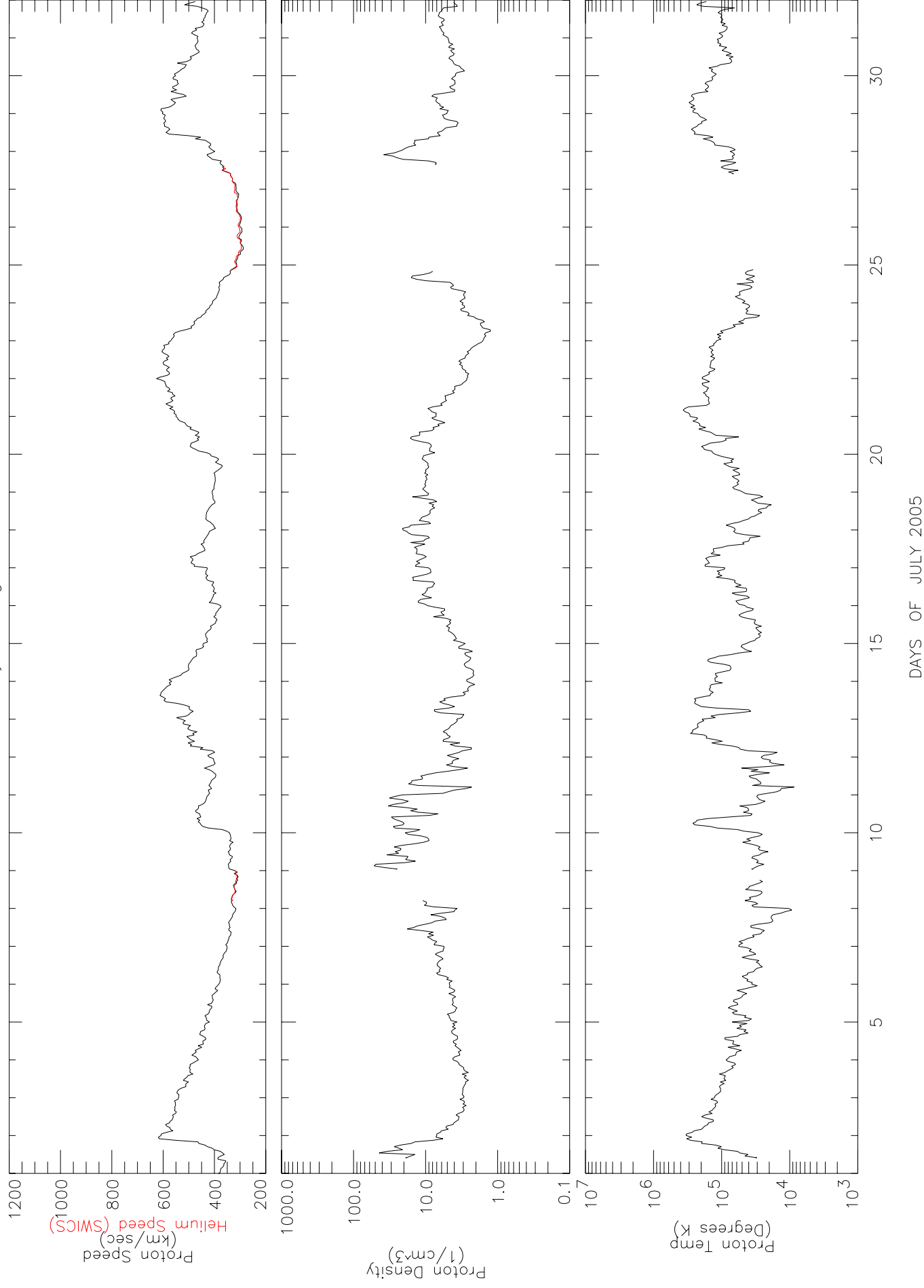
Data at: <http://www.sec.noaa.gov/ftpmenu/sbu.html>

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

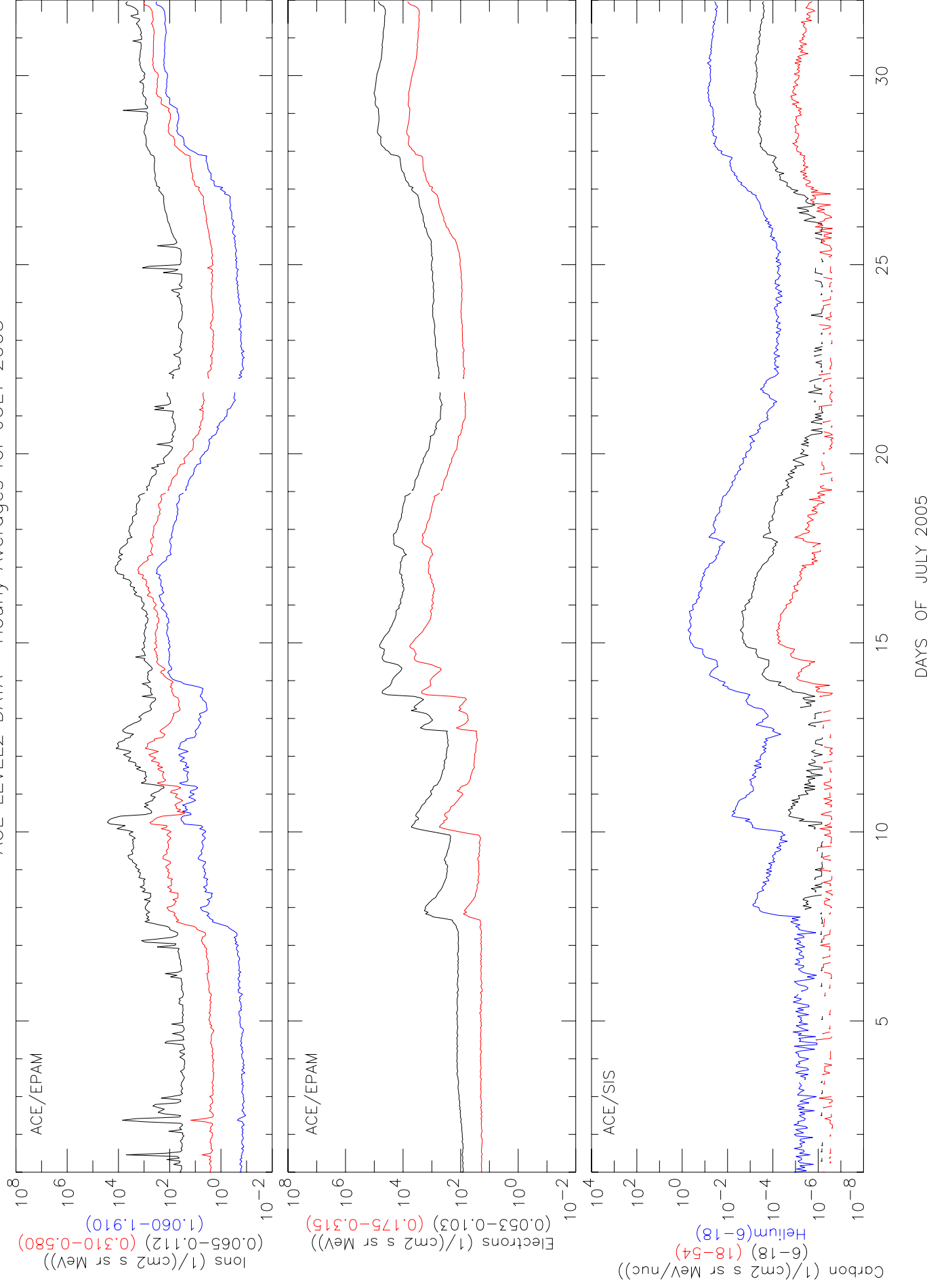


DAYS OF JULY 2005

ACE LEVEL2 DATA Solar Wind Plasma Hourly Averages for JULY 2005, from SWEPM



Solar Energetic Particles
ACE LEVEL2 DATA Hourly Averages for JULY 2005



SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

<http://cdaw.gsfc.nasa.gov/>

Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA
JULY 2005

First C2 Appearance		Central Width		Linear Fit Speed km/s	----2nd order speed-----			Accel m/s ²	Measurement	Remarks
Date	Time UT	Position Angle degree	Angular Width degree		Initial km/s	Final km/s	20R km/s		Position Angle degree	
2005/07/01	05:30:05	78	42	419	514	331	0	-23.1*	74	Only 3 points
2005/07/01	21:30:05	99	78	259	243	276	323	1.9	75	
2005/07/01	23:06:05	90	97	231	184	284	315	2.6	87	
2005/07/02	02:30:05	245	15	182	----	----	----	-----	245	Only 2 points, Only C2
2005/07/02	08:30:06	126	8	333	----	----	----	-----	124	
2005/07/02	11:30:05	227	26	119	170	69	0	-11.9*	235	
2005/07/02	14:54:05	228	35	103	66	142	209	1.7*	230	
2005/07/03	05:30:05	315	21	120	102	139	304	3.4*	320	Only C2
2005/07/03	11:30:05	75	34	212	217	208	54	-1.8*	81	Only C2
2005/07/03	20:30:05	295	27	118	0	283	529	11.9*	294	
2005/07/04	02:30:05	303	40	78	12	142	256	2.7	297	Not LE
2005/07/04	06:54:05	300	11	293	266	324	348	2.5	301	
2005/07/04	13:31:50	358	9	----	----	----	----	-----	358	1 point, Only C
2005/07/04	17:54:05	258	15	191	117	261	547	13.8*	255	
2005/07/04	20:30:05	81	61	171	0	314	542	12.4	81	
2005/07/04	22:06:05	70	13	425	396	455	457	2.2	67	
2005/07/05	03:30:05	241	83	331	331	331	331	0.0	237	
2005/07/05	15:30:05	Halo	360	772	712	832	812	6.4	129	
2005/07/05	21:12:43	260	48	145	159	131	0	-6.3*	267	Only C2
2005/07/06	00:30:05	256	50	124	0	265	346	5.2*	259	
2005/07/06	01:54:05	90	24	566	653	479	370	-12.4	91	
2005/07/06	21:26:08	356	205	161	0	307	489	10.0	351	Partial Halo
2005/07/07	11:50:05	96	140	588	543	638	752	11.2*	119	Partial Halo
2005/07/07	13:26:05	118	165	432	388	479	496	4.0	126	Partial Halo
2005/07/07	17:06:07	Halo	360	683	733	636	574	-8.7	39	
2005/07/08	07:27:17	60	18	597	291	916	2191	203.1*	65	
2005/07/08	12:26:05	109	40	357	471	238	0	-33.9	100	
2005/07/08	13:27:20	112	36	93	0	203	265	3.2*	108	
2005/07/08	19:22:27	259	62	479	489	470	386	-4.3*	265	
2005/07/09	13:54:05	142	54	523	470	577	640	7.9	149	
2005/07/09	21:54:05	75	62	373	194	562	504	8.9	67	
2005/07/09	22:30:05	Halo	360	1540	1886	1159	214	-168.5-	328	Only 3 points
2005/07/10	06:30:05	271	41	265	182	348	895	32.2*	281	Only C2
2005/07/10	08:54:05	290	>182	835	615	1079	988	27.4	250	Partial Halo
2005/07/10	12:54:05	238	28	580	574	587	614	2.0*	239	
2005/07/10	15:54:05	281	30	212	307	118	0	-53.2*	281	Only C2
2005/07/10	19:31:48	254	20	588	818	360	0	-165.3-	247	Only 3 points
2005/07/10	23:06:52	257	89	696	613	782	772	9.3	272	
2005/07/11	05:30:05	284	27	186	236	136	0	-13.5	285	Only C2
2005/07/11	06:54:06	273	45	330	265	393	650	14.8	273	
2005/07/11	13:54:05	285	38	235	169	302	770	23.1	287	Only C2
2005/07/11	17:30:05	275	69	462	572	350	278	-10.5	269	
2005/07/12	04:54:06	280	34	711	751	668	686	-3.9	286	
2005/07/12	05:30:05	262	36	550	535	566	583	2.3	267	
2005/07/12	13:54:06	292	25	334	304	364	505	6.8	293	

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JULY 2005

First C2 Appearance		Central Width			Linear Fit			Measurement		Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	Accel m/s ²	Position Angle degree	
2005/07/12	16:54:05	Halo	360	523	532	514	519	-0.6	296	
2005/07/12	23:30:05	282	44	658	392	919	998	35.0	282	
2005/07/13	03:06:05	288	54	759	788	730	717	-4.6	292	
2005/07/13	12:54:05	275	49	471	543	402	0	-16.7	267	
2005/07/13	14:30:05	Halo	360	1423	1504	1342	1390	-14.1	303	
2005/07/13	22:30:05	260	34	539	625	448	515	-5.6	248	
2005/07/14	06:06:05	252	14	560	506	617	697	9.6	249	
2005/07/14	06:30:05	282	60	541	554	527	471	-3.4	274	
2005/07/14	07:54:05	266	103	752	778	722	740	-2.6	237	
2005/07/14	10:54:05	Halo	360	2115	1829	2400	2684	198.0*	296	Only 3 points
2005/07/14	17:54:05	278	54	703	698	709	709	0.6	266	
2005/07/14	23:30:05	269	33	724	723	726	726	0.2	270	
2005/07/15	02:30:05	257	12	548	645	439	413	-10.7	259	
2005/07/15	02:30:05	114	12	695	525	853	1093	40.0	110	
2005/07/15	08:30:05	111	20	598	637	558	353	-12.1	113	
2005/07/15	09:06:06	280	49	645	825	459	357	-22.7	282	
2005/07/15	11:54:05	290	40	562	390	734	1560	95.9*	300	Only C2
2005/07/15	12:54:05	282	62	629	402	831	1050	39.1	290	
2005/07/15	16:06:06	256	14	508	593	416	299	-11.0	255	
2005/07/15	20:06:05	289	31	595	599	589	563	-1.7	292	
2005/07/15	21:08:02	253	>174	820	800	841	847	3.6	281	Partial Halo
2005/07/16	00:30:05	266	56	462	278	670	634	13.6	256	
2005/07/16	03:54:08	64	38	58	0	125	263	2.9*	65	
2005/07/16	13:54:05	289	27	279	326	233	0	-25.6*	289	Only C2
2005/07/16	19:54:05	109	>226	186	128	250	323	3.6*	115	Partial Halo
2005/07/17	01:54:05	283	26	398	527	265	0	-38.9	279	
2005/07/17	04:06:05	278	40	415	448	380	152	-7.3	274	
2005/07/17	07:32:16	265	7	319	288	353	486	6.4	268	
2005/07/17	09:54:05	283	47	652	778	532	174	-25.2	273	
2005/07/17	11:30:05	Halo	360	1527	1227	1814	1697	59.2	316	
2005/07/18	00:30:05	293	21	275	0	512	693	20.6	291	
2005/07/18	04:30:05	121	31	474	474	474	474	0.0*	120	3 points/Only C2
2005/07/18	07:31:44	58	13	323	305	344	366	1.7	62	
2005/07/18	09:54:05	256	5	505	-----	-----	-----	-----	256	
2005/07/18	11:30:05	276	15	203	-----	-----	-----	-----	276	2 points/Only C2
2005/07/18	20:54:05	116	50	265	257	273	287	0.7*	130	
2005/07/18	23:06:05	128	40	75	55	98	170	1.1*	131	
2005/07/19	05:30:05	275	25	434	641	250	0	-49.6*	268	
2005/07/19	16:30:05	37	42	132	106	160	208	1.3*	39	
2005/07/20	08:30:05	87	67	224	187	262	346	3.6	74	
2005/07/20	09:08:25	271	58	317	125	505	1592	104.3*	275	Only C2
2005/07/20	17:07:21	16	23	224	145	302	584	13.3*	12	
2005/07/20	21:30:05	8	85	267	308	226	133	-3.2	29	
2005/07/21	03:54:05	Halo	360	925	1261	574	866	-38.9	80	
2005/07/21	13:31:47	290	53	229	304	164	0	-10.3*	280	
2005/07/21	18:30:05	222	145	335	142	548	1040	44.0*	214	Partial Halo
2005/07/21	22:30:05	283	58	168	134	201	330	3.8	278	

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JULY 2005

First C2 Appearance		Central Width			Linear Fit			Measurement		Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	Accel m/s ²	Position Angle degree	
2005/07/22	03:06:05	128	91	186	164	207	344	3.8*	135	Only C2
2005/07/22	06:30:05	57	10	336	156	501	674	18.6*	54	
2005/07/22	09:54:07	91	26	963	1763	0	0	-728.8-	89	
2005/07/22	17:07:45	Halo	360	417	352	479	571	10.7*	152	
2005/07/22	23:54:05	Halo	360	527	573	478	381	-7.7	164	
2005/07/23	04:54:05	54	14	341	534	152	0	-37.2	51	
2005/07/23	09:30:06	73	62	671	662	681	683	1.1	51	
2005/07/23	12:30:05	102	70	281	296	266	215	-1.7	116	
2005/07/23	20:30:05	299	120	316	285	347	619	12.4*	300	Only C2
2005/07/23	20:58:42	63	28	678	596	753	857	16.1	65	
2005/07/23	23:30:05	37	165	887	881	892	900	1.4*	76	Partial Halo
2005/07/24	04:54:05	111	46	166	237	90	0	-12.0*	113	
2005/07/24	11:30:07	Halo	360	1258	1079	1440	1390	35.7*	112	
2005/07/24	13:54:05	Halo	360	2528	----	----	----	-----	85	Only 2 points
2005/07/24	22:30:05	Halo	360	1234	1421	1051	799	-58.5*	117	
2005/07/25	11:06:05	Halo	360	1660	1990	1345	1515	-69.0	85	
2005/07/25	21:54:05	89	>203	1570	1614	1526	1522	-13.6*	89	Partial Halo
2005/07/26	04:54:29	Halo	360	1458	1679	1246	1020	-86.9*	90	
2005/07/26	09:30:05	114	>193	1588	1771	1413	1348	-54.9*	87	Partial Halo
2005/07/26	17:06:05	292	34	341	159	536	725	26.8*	299	
2005/07/26	17:06:05	82	38	426	366	485	601	12.3*	80	Only C3
2005/07/27	01:31:47	300	23	626	548	709	680	6.7	302	
2005/07/27	04:54:05	Halo	360	1787	1979	1604	1457	-75.4	84	
2005/07/27	07:54:05	65	51	533	636	430	305	-13.6*	54	
2005/07/27	11:06:05	71	17	1330	1306	1351	1348	4.8*	76	
2005/07/27	17:30:05	67	59	440	----	----	----	-----	67	2 points/Only C
2005/07/27	20:06:18	214	4	652	----	----	----	-----	218	3 points/Only C
2005/07/27	22:30:18	86	25	321	466	179	0	-45.4*	86	
2005/07/28	00:30:19	79	88	854	858	849	851	-0.5	90	
2005/07/28	06:54:30	72	30	573	636	514	463	-8.1	70	
2005/07/28	13:31:48	297	57	93	0	242	346	5.0*	285	
2005/07/28	14:30:05	132	3	493	----	----	----	-----	133	2 points/Only C
2005/07/28	15:54:06	140	4	639	----	----	----	-----	140	2 points/Only C
2005/07/28	18:30:05	319	12	326	228	428	958	36.1*	318	Only C2
2005/07/28	22:06:20	81	>213	1478	1710	1221	1312	-52.1	90	Partial Halo
2005/07/29	07:55:03	196	31	147	213	82	0	-36.6*	193	Only C2
2005/07/29	12:06:20	87	48	381	417	346	0	-9.1	94	
2005/07/29	18:54:33	67	15	297	498	83	0	-32.0*	65	
2005/07/30	00:30:18	212	62	43	16	69	216	2.0*	205	Only C2
2005/07/30	00:54:37	107	25	205	341	79	0	-23.0*	107	
2005/07/30	05:57:53	75	30	----	----	----	----	-----	75	1 point/Only C2
2005/07/30	06:50:28	Halo	360	1968	2340	1595	1851	-102.6	50	
2005/07/30	17:24:19	74	84	1173	1491	859	690	-74.7	73	
2005/07/31	06:06:05	113	5	672	----	----	----	-----	108	2 points/Only C
2005/07/31	06:30:05	109	45	849	879	816	818	-4.5	116	
2005/07/31	14:30:05	83	58	994	1134	844	917	-19.3	91	
2005/07/31	20:30:05	96	12	527	763	276	0	-167.3-	94	Only 3 points