

DECEMBER 2001 NUMBER 688 - Part II

Solar-Geophysical Data comprehensive reports



Data for June 2001 and Miscellaneous
Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

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NATIONAL ENVIRONMENTAL SATELLITE,
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DECEMBER 2001 NUMBER 688 - Part II

Solar-Geophysical Data comprehensive reports

Data for June 2001 and Late Data

International Standard Serial Number: 0038-0911

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

NATIONAL GEOPHYSICAL DATA CENTER

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Subscription information is on the inside back cover.

SOLAR-GEOPHYSICAL DATA

Number 688

(Issued in Two Parts)

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H α SOLAR FLARES

JUNE 2001

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0001		01	0559	0600	0602	N18	W90	9481	05	25.5	3	SF						24		
	LEAR	01	0559	0600	0603	N18	W90	9481	05	25.5	4	SF		3	E			26		
	SVTO	01	0600	0600	0602	N19	W90	9481	05	25.5	2	SF		3	E			21		
		01	0922		1043	No Flare Patrol														
0002	HOLL	01	1500	1502	1507	N18	E04	9475	06	1.9	7	SF		3	E			23		
0003	HOLL	01	1508	1508	1514	S24	W57	9483	05	28.3	6	SF		3	E			28		
0004	HOLL	01	1624	1626	1630	S24	W58	9483	05	28.3	6	SF		3	E			18		
0005	HOLL	01	1813	1813	1819	S24	W59	9483	05	28.3	6	SF		3	E			17		
		01	1932		1937	No Flare Patrol														
0006	HOLL	02	0011	0016	0029	S08	E35	9484	06	4.6	18	SF		3	E			15		
0007	HOLL	02	0044	0049	0051	S08	E34	9484	06	4.6	7	SF		3	E			12		
0008	URUM	02	0119E	0119	0123	S08	E38	9484	06	4.9	4D	SN			P			48	0.6	D
		02	0703		0949	No Flare Patrol														
0009	SVTO	02	1040E	1041U	1048	S08	E30	9484	06	4.7	8D	SF		2	E			13		F
0010		02	1337	1339	1346	S07	E28	9484	06	4.7	9	SF						22		FH
	HOLL	02	1337	1341	1348	S07	E28	9484	06	4.7	11	SF		3	E			13		FH
	RAMY	02	1339	1339	1344	S07	E28	9484	06	4.7	5	SF		3	E			32		F
0011	RAMY	02	1350	1351	1354	S08	E27	9484	06	4.6	4	SF		3	E			95		F
0012	LEAR	03	0034	0037U	0119D	S06	E21	9484	06	4.6	45D	SF		3	E			33		
0013	LEAR	03	0659	0700	0704	S16	E70	9488	06	8.6	5	SF		3	E			26		
0014		03	1354	1354	1400	S18	E73	9488	06	9.1	6	SF						12		
	HOLL	03	1354	1354	1400	S18	E73	9488	06	9.1	6	SF		3	E			13		
	RAMY	03	1354	1355	1400	S19	E73	9488	06	9.2	6	SF		3	E			11		
0015		03	1900	1902	1910	S06	E10	9484	06	4.5	10	SF						20		F
	RAMY	03	1900	1902	1911	S06	E10	9484	06	4.5	11	SF		3	E			17		F
	HOLL	03	1902	1903	1910	S06	E11	9484	06	4.6	8	SF		3	E			23		
0016		03	2007	2010	2026	S06	E10	9484	06	4.6	19	SF						46		F
	RAMY	03	2007	2010	2026	S06	E09	9484	06	4.5	19	SF		3	E			48		F
	HOLL	03	2009	2010	2026	S06	E10	9484	06	4.6	17	SF		3	E			44		
0017	HOLL	03	2042	2043	2047	N28	W20	9486	06	2.3	5	SF		3	E			22		F
0018	HOLL	03	2048	2049	2051	N28	W20	9486	06	2.3	3	SF		3	E			14		
0019		03	2101	2119	2144	S20	E62	9488	06	8.6	43	1F						212		EFH
	RAMY	03	2101	2119	2142	S21	E62	9488	06	8.6	41	1F		3	E			209		FH
	HOLL	03	2101	2120	2147	S19	E62	9488	06	8.6	46	1F		3	E			214		FE
0020		04	0030*	0045	0054	N30	W23	9486	06	2.2	24	SF						98	3.3	EFU
	URUM	04	0030	0045	0056	N33	W26	9486	06	1.9	26	1N			C			241	3.3	E
	HOLL	04	0037	0047	0056	N27	W20	9486	06	2.5	19	SF		3	E			28		F
	LEAR	04	0042	0045	0049	N29	W22	9486	06	2.3	7	SF		3	E			26		UF
0021	URUM	04	0300	0304	0304D	N23	W60	9474	05	30.6	4D	1N			P			96	2.1	D
0022	SVTO	04	0812E	0821	0850	S18	E57	9488	06	8.7	38D	1F		2	E			236		
		04	0937		1058	No Flare Patrol														
		04	1210		1211	No Flare Patrol														

H α SOLAR FLARES

5
Jun 01

JUNE 2001

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
								Region	Mo Day							Apparent (10-6 Disk)	Corr (Sq Deg)	
0023	04	15112	15143	1528	S18 E52	9488	06	8.6	17	SF					40		F	
	HOLL	04	1511	1517	1528	S19 E52	9488	06	8.6	17	SF	3	E		31		F	
	SVTO	04	1513	1514	1528	S18 E53	9488	06	8.7	15	SF	2	E		49			
0024	04	16241	16271	1648	N23 W60	9474	05	31.1	24	SF					42		F	
	SVTO	04	1624	1627	1649	N22 W60	9474	05	31.1	25	SF	2	E		48		F	
	HOLL	04	1625	1628	1646	N24 W59	9474	05	31.1	21	SF	3	E		36		F	
0025	04	18502	1853	1859	S20 E50	9488	06	8.6	9	SF					44			
	HOLL	04	1850	1853	1859	S19 E50	9488	06	8.6	9	SF	3	E		43			
	RAMY	04	1852	1853	1859	S21 E49	9488	06	8.5	7	SF	3	E		45			
0026	04	21071	21101	2116	S06 W04	9484	06	4.6	9	SF					17		F	
	RAMY	04	2107	2110	2116	S05 W04	9484	06	4.6	9	SF	3	E		23		F	
	HOLL	04	2108	2111	2116	S06 W05	9484	06	4.5	8	SF	3	E		11			
0027	HOLL	04	2202	2203	2208	N28 W34	9486	06	2.3	6	SF	3	E		20		F	
0028	HOLL	04	2237	2255	2340	N29 W32	9486	06	2.4	63	1F	3	E		121		EF	
0029	HOLL	04	2251	2252	2314	S04 W03	9484	06	4.7	23	SF	3	E		77		F	
0030	HOLL	05	0036	0036	0052	S18 E46	9488	06	8.5	16	SF	3	E		24		F	
0031	05	0444	04464	0521	S18 E44	9488	06	8.5	37	2B					340		FHZ	
	LEAR	05	0444	0446	0521	S18 E45	9488	06	8.6	37	2B	2	E		342		ZF	
	SVTO	05	0444	0450	0521	S18 E44	9488	06	8.5	37	2N	3	E		337		FH	
0032	URUM	05	1024	1026	1040	N30 W41	9486	06	2.2	16	1F		C		257	4.1	E	
0033	URUM	05	1210E	1210	1210D	N28 W45	9486	06	2.0	16D	1N		P		177	2.9	E	
0034	HOLL	05	1419	1421	1441	S05 W15	9484	06	4.5	22	SN	3	E		92		F	
0035	06	0816	0817	0831	S19 E22	9488	06	8.0	15	SF					52		F	
		06	0923		1058	No Flare Patrol												
0036	RAMY	06	1159	1159	1207	N24 W73	9475	05	31.8	8	SF	3	E		13			
0037	RAMY	06	1226	1226	1234	N23 W73	9474	05	31.9	8	SF	3	E		11			
0038	RAMY	06	1252	1253	1259	N07 W69	9475	06	1.4	7	SF	3	E		13		F	
0039	HOLL	06	1304	1305	1331	S19 E21	9488	06	8.1	27	SF	3	E		60			
0040	HOLL	06	1316	1317	1324	N21 W74	9475	05	31.9	8	SF	3	E		13			
0041	HOLL	06	1344	1344	1352	S18 E21	9488	06	8.2	8	SF	3	E		15		F	
0042	HOLL	06	1350	1352	1354	N19 W85	9474	05	31.1	4	SF	3	E		18			
0043	06	14422	14441	1448	S04 W26	9484	06	4.7	6	SF					16			
	HOLL	06	1442	1444	1448	S04 W26	9484	06	4.7	6	SF	3	E		22			
	RAMY	06	1444	1445	1447	S04 W26	9484	06	4.7	3	SF	3	E		11			
0044	06	1445	1446	1450	N28 W57	9486	06	2.1	5	SF					27		F	
	RAMY	06	1445	1446	1450	N29 W57	9486	06	2.1	5	SF	3	E		24		F	
	HOLL	06	1445	1446	1450	N26 W57	9486	06	2.2	5	SF	3	E		30			
0045	HOLL	06	1608	1610	1617	S18 E20	9488	06	8.2	9	SF	3	E		19			
0046	06	17232	1726	1736	N25 W82	9475	05	31.4	13	1F					198		H	
	HOLL	06	1723	1726	1737	N23 W80	9475	05	31.5	14	1F	3	E		239		H	
	RAMY	06	1725	1726	1735	N27 W85	9475	05	31.1	10	1F	3	E		158		H	
0047	06	1805	18051	1810	N24 W80	9475	05	31.6	5	SF					48			
	HOLL	06	1805	1805	1810	N23 W79	9475	05	31.7	5	SF	3	E		60			
	RAMY	06	1805	1806	1811	N25 W80	9475	05	31.5	6	SF	3	E		37			

H α SOLAR FLARES7
Jun 01

JUNE 2001

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)		
0067	HOLL	09	0049	0049	0055	N06	E50	9493	06	12.8	6	SF		3	E		21			
			09 0115		0620	No Flare Patrol														
0068	URUM	09	0305	0308	0313	S08	W33	9494	06	6.6	8	SN			C		145	1.8	E	
0069	URUM	09	0332	0336	0344	S10	W33	9494	06	6.7	12	SN			C		161	2.0	E	
0070	URUM	09	0355	0402	0418	S15	W02	9490	06	9.0	23	1N			C		370	4.0	E	
0071	URUM	09	0355	0402	0422	S17	W17	9488	06	7.9	27	SN			C		64	0.7	D	
0072	URUM	09	0430	0434	0438D	S07	W34	9494	06	6.6	8D	1F			P		193	2.4	E	
0073	LEAR	09	0621E	0624U	0633	S07	W35	9494	06	6.6	12D	SF		4	E		17		F	
0074	LEAR	09	0731	0739	0751	S08	W36	9494	06	6.6	20	SF		4	E		19		F	
			09 0937		1201	No Flare Patrol														
0075	URUM	09	1010E	1010	1010D	S08	W36	9494	06	6.7	20D	1N			P		257	3.3	E	
0076	URUM	09	1022	1026	1030	S06	W39	9494	06	6.5	8	1N			C		273	3.6	E	
0077	URUM	09	1212E	1212U	1212D	S09	W38	9494	06	6.6	8D	1N			P		161	2.1	E	
0078		09	13091	1312	1322	S08	W36	9494	06	6.8	13	SF					19		F	
	HOLL	09	1309	1312	1321	S09	W35	9494	06	6.9	12	SF		3	E		19		F	
	RAMY	09	1310	1312	1322	S08	W38	9494	06	6.7	12	SF		3	E		19		F	
0079	HOLL	09	1329	1344	1444	S08	W35	9494	06	6.9	75	SF		3	E		68		F	
0080	HOLL	09	1343	1345	1349	S16	W14	9488	06	8.5	6	SF		3	E		17		F	
0081		09	1436*	1438*	1450	S07	W37	9494	06	6.8	14	SF					14		F	
	RAMY	09	1436	1438	1446	S07	W39	9494	06	6.7	10	SF		3	E		15		F	
	HOLL	09	1449	1450	1454	S07	W35	9494	06	7.0	5	SF		3	E		12			
0082		09	1505	15062	1517	S08	W38	9494	06	6.8	12	SF					21			
	RAMY	09	1505	1506	1515	S07	W39	9494	06	6.7	10	SF		3	E		19			
	HOLL	09	1505	1508	1519	S08	W38	9494	06	6.8	14	SF		3	E		23			
0083		09	15291	1531	1535	S06	W40	9494	06	6.6	6	SF					23		F	
	RAMY	09	1529	1531	1536	S06	W40	9494	06	6.6	7	SF		3	E		29		F	
	HOLL	09	1530	1531	1534	S07	W40	9494	06	6.6	4	SF		3	E		17			
0084	RAMY	09	1552	1554	1608	S08	W40	9494	06	6.7	16	SF		3	E		25			
0085	HOLL	09	1621	1624	1628	N26	W13	9487	06	8.7	7	SF		3	E		15			
0086		09	1628	1629	1640	N16	E00	9489	06	9.7	12	SF					22			
	RAMY	09	1628	1629	1640	N16	E01	9489	06	9.8	12	SF		3	E		20			
	HOLL	09	1628	1629	1641	N16	E00	9489	06	9.7	13	SF		3	E		25			
0087	RAMY	09	1653	1701	1705	S06	W41	9494	06	6.6	12	SF		3	E		12		F	
			09 1821		1822	No Flare Patrol														
0088	HOLL	09	1829	1830	1834	N06	E46	9493	06	13.2	5	SF		3	E		38		F	
0089	HOLL	09	1835	1839	1845	N06	E46	9493	06	13.2	10	SF		3	E		72		F	
0090	HOLL	09	1833	1839	1855	S08	W43	9494	06	6.5	22	SF		3	E		99		F	
0091	HOLL	09	1910	1924	1941	S07	W40	9494	06	6.8	31	1F		3	E		101		FU	
0092	HOLL	09	1913	1914	1917	N20	W05	9489	06	9.4	4	SF		3	E		38			
0093	HOLL	09	2049	2057	2100	S08	W43	9494	06	6.6	11	SF		3	E		15		F	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0094	HOLL	09	2102	2119	2254	S08	W45	9494	06	6.5	112	SF	3	E		60		F
0095	HOLL	09	2335	2336	2339	S07	W39	9494	06	7.1	4	SF	3	E		34		
0096	HOLL	09	2345	2350	2403	N06	E38	9493	06	12.8	18	SF	3	E		53		
0097	URUM	09	2358E	2358	2414	S09	W30	9494	06	7.7	16D	1N		P		257	3.1	E
0098		10	01002	0106	0134	S08	W42	9494	06	6.9	34	SF				61		
	HOLL	10	0100	0106	0123	S08	W42	9494	06	6.9	23	SF	3	E		90		
	LEAR	10	0102	0106	0146	S08	W42	9494	06	6.9	44	SF	3	E		32		
0099	URUM	10	0114E	0114	0118	S08	W45	9494	06	6.7	4D	1N		P		257	3.8	E
0100		10	01375	01426	0200	S16	W12	9488	06	9.1	23	SN				53	1.1	EF
	URUM	10	0137	0148	0200	S16	W12	9488	06	9.1	23	SN		C		96	1.1	E
	LEAR	10	0142	0142	0200	S16	W13	9488	06	9.1	18	SF	3	E		10		F
0101	URUM	10	0336	0338	0341	N16	W07	9489	06	9.6	5	SN		C		161	1.7	E
0102	URUM	10	0353	0357	0412	S10	W46	9494	06	6.7	19	1N		C		193	2.9	E
0103	LEAR	10	0646E	0646U	0647D	S07	W48	9494	06	6.7	1D	SF	2	E		13		
0104	LEAR	10	0843E	0859U	0912D	S08	W50	9494	06	6.6	29D	SF	2	E		53		
0105	RAMY	10	1111	1125	1152	S07	W51	9494	06	6.6	41	SF	3	E		43		F
0106	RAMY	10	1137	1141	1146	N06	E34	9493	06	13.0	9	SF	3	E		18		F
0107	RAMY	10	1138	1139	1146	N21	W06	9489	06	10.0	8	SF	3	E		17		F
0108	RAMY	10	1154	1154	1200	N22	W26	9487	06	8.5	6	SF	3	E		33		F
0109	RAMY	10	1214	1215	1220	S12	E34	9497	06	13.1	6	SF	3	E		12		
0110	RAMY	10	1243	1247	1253	S07	W51	9494	06	6.7	10	SF	3	E		25		F
0111	HOLL	10	1542	1542	1546	S12	E34	9497	06	13.2	4	SF	3	E		17		
0112	HOLL	10	1545	1547	1611	S07	W55	9494	06	6.5	26	SF	3	E		35		F
0113	HOLL	10	1725	1726	1730	N18	W13	9489	06	9.7	5	SF	3	E		11		
0114	HOLL	10	1739	1740	1743	S08	W49	9494	06	7.1	4	SF	3	E		21		
0115	HOLL	10	1947	1949	1953	N21	W30	9487	06	8.5	6	SF	3	E		49		F
0116	URUM	10	2355E	2355	2401	N07	E37	9493	06	13.8	6D	SN		P		113	1.5	E
0117	LEAR	11	0015	0019	0025	S05	W59	9494	06	6.6	10	SF	3	E		20		F
0118	URUM	11	0315	0319	0323	S13	W28	9490	06	9.0	8	2N		P		450	5.4	E
0119	URUM	11	0335	0349	0349D	S08	W63	9494	06	6.4	14D	1N		P		129	3.0	E
0120	URUM	11	0503	0516	0520D	N00	W67	9494	06	6.2	17D	SN		P		64		D
0121	URUM	11	0735E	0735	0735D	S16	W34	9488	06	8.7	17D	SN		P		96	1.3	D
		11	1002		1041	No Flare Patrol												
0122		11	14021	1403	1406	N26	W38	9487	06	8.6	4	SF				14		F
	HOLL	11	1402	1403	1407	N25	W39	9487	06	8.6	5	SF	3	E		18		
	RAMY	11	1403	1403	1406	N27	W38	9487	06	8.6	3	SF	3	E		10		F
0123		11	1438	1444	1454	N20	W22	9489	06	9.9	16	SF				28		F
	HOLL	11	1438	1444	1454	N19	W23	9489	06	9.8	16	SF	3	E		31		F
	RAMY	11	1438	1444	1455	N20	W21	9489	06	10.0	17	SF	3	E		26		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0124		11	2048	2051	2101	S16	W42	9488	06	8.7	13	SF					58		F
	HOLL	11	2048	2051	2101	S17	W41	9488	06	8.7	13	SF		3	E		59		F
	RAMY	11	2048	2051	2101	S15	W42	9488	06	8.7	13	SF		3	E		56		F
0125	LEAR	12	0036	0036	0039	N21	W03	9492	06	11.8	3	SF		3	E		14		F
0126	LEAR	12	0704	0709	0717	N25	W47	9487	06	8.6	13	SF		3	E		23		
0127		12	0713	07152	0744	S16	W52	9488	06	8.3	31	1N					184		FH
	LEAR	12	0713	0715	0748	S15	W52	9488	06	8.4	35	1N		3	E		213		FH
	SVTO	12	0713	0717	0740	S16	W52	9488	06	8.3	27	SF		3	E		155		FH
0128	RAMY	12	1244	1246	1259	N21	W50	9487	06	8.7	15	SF		3	E		11		
0129	RAMY	12	1533	1533	1535	S06	W81	9494	06	6.6	2	SF		3	E		18		F
0130	RAMY	12	1700	1705	1711	S07	W79	9494	06	6.8	11	SF		3	E		34		F
		12	2150		2221	No Flare Patrol													
0131	LEAR	13	0426	0428U	0510D	S25	E74	9502	06	18.9	44D	1F		2	E		100		F
		13	0615		0636	No Flare Patrol													
		13	0701		0712	No Flare Patrol													
0132	LEAR	13	0744	0746	0803	N14	E80	9503	06	19.4	19	SF		2	E		97		F
		13	0812		0824	No Flare Patrol													
0133	LEAR	13	0828	0830	0904	N20	W48	9489	06	9.7	36	SF		3	E		36		
		13	0922		0926	No Flare Patrol													
		13	0948		1023	No Flare Patrol													
0134	RAMY	13	1045	1045	1048	N22	W44	9489	06	10.1	3	SF		3	E		25		
0135	RAMY	13	1135	1139	1218	S29	E66	9502	06	18.6	43	1N		3	E		187		HU
0136	RAMY	13	1214	1215	1217	N22	W66	9487	06	8.4	3	SF		3	E		15		
0137	RAMY	13	1311	1311	1316	N21	W48	9489	06	9.9	5	SF		3	E		10		F
0138		13	1417	14184	1431	N21	W48	9489	06	9.9	14	SF					54		F
	HOLL	13	1417	1418	1433	N20	W49	9489	06	9.8	16	SF		3	E		52		F
	RAMY	13	1417	1422	1429	N22	W48	9489	06	9.9	12	SF		3	E		55		
0139		13	1621	16271	1640	N20	W49	9489	06	9.9	19	SF					76		H
	RAMY	13	1621	1627	1640	N21	W49	9489	06	9.9	19	SF		3	E		75		H
	HOLL	13	1621	1628	1639	N20	W49	9489	06	9.9	18	SF		4	E		77		H
0140		13	16214	1628	1654	S28	E64	9502	06	18.7	33	SF					58		FH
	HOLL	13	1621	1628	1702	S27	E65	9502	06	18.7	41	SF		3	E		71		FH
	RAMY	13	1625	1628	1645	S28	E63	9502	06	18.6	20	SF		3	E		45		F
0141		13	1654	16551	1703	N22	W54	9489	06	9.5	9	SF					36		F
	HOLL	13	1654	1655	1700	N20	W54	9489	06	9.6	6	SF		3	E		32		F
	RAMY	13	1654	1656	1706	N23	W53	9489	06	9.6	12	SF		3	E		39		F
0142	HOLL	13	1704	1712	1715	S27	E64	9502	06	18.7	11	SF		3	E		23		
0143	HOLL	13	1954	1956	2009	N20	W52	9489	06	9.8	15	SF		4	E		97		
0144	HOLL	13	2311	2313	2324	N04	W33	9495	06	11.5	13	SF		3	E		14		
0145	LEAR	14	0101E	0112U	0120D	N20	W55	9489	06	9.8	19D	SF		2	E		31		
0146	LEAR	14	0304	0305	0316	N23	W72	9487	06	8.6	12	SF		3	E		58		
0147	LEAR	14	0346	0350	0410	N19	W55	9489	06	9.9	24	SF		3	E		43		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks	
						Lat	Cmd	Region						Mo	Day		Time (UT)
			18 0003		0024	No Flare Patrol											
0174	LEAR	18	0200	0201	0207	N19	E46	9506	06	21.6	7	SF	3	E	21	F	
			18 0218		0227	No Flare Patrol											
0175	URUM	18	0419E	0419	0431	N12	E18	9503	06	19.5	12D	SN		P	96	1.1	D
0176		18	0614	0618	0704	N10	W15	9500	06	17.1	50	1F			78	F	
	LEAR	18	0614	0618	0704	N09	W15	9500	06	17.1	50	1F	4	E	120	F	
	SVTO	18	0615E	0618U	0627D	N12	W15	9500	06	17.1	12D	SF	2	E	37		
0177	URUM	18	0650E	0650	0726	N10	W15	9500	06	17.1	36D	1B		P	321	3.5	E
0178		18	12573	13014	1314	N19	E38	9506	06	21.4	17	SF			21		FH
	RAMY	18	1257	1301	1314	N17	E37	9506	06	21.3	17	SF	3	E	18	F	
	HOLL	18	1257	1305	1318	N20	E38	9506	06	21.4	21	SF	3	E	31	FH	
	SVTO	18	1300	1301	1310	N21	E39	9506	06	21.5	10	SF	3	E	13		
0179		18	1454	1455	1510	N19	E19	9503	06	20.1	16	SF			45	H	
	RAMY	18	1454	1455	1506	N17	E20	9503	06	20.1	12	SF	3	E	38	H	
	HOLL	18	1454	1455	1514	N19	E19	9503	06	20.1	20	SF	3	E	60	H	
	SVTO	18	1454	1455	1522D	N20	E18	9503	06	20.0	28D	SF	3	E	37		
0180	HOLL	18	1516	1520	1525	N19	E18	9503	06	20.0	9	SF	3	E	11		
0181	HOLL	18	1606	1606	1612	N19	E18	9503	06	20.0	6	SF	3	E	11		
0182	HOLL	18	1616	1634	1644	N19	E18	9503	06	20.0	28	SF	3	E	25	H	
0183	HOLL	18	1705	1710	1717	N19	E17	9503	06	20.0	12	SF	3	E	15		
0184	HOLL	18	1826	1828	1836	N19	E16	9503	06	20.0	10	SF	3	E	20		
0185	HOLL	18	2003	2006	2052	N18	E34	9506	06	21.4	49	2N	3	E	362	FU	
0186	HOLL	18	2006	2006	2010	N19	E16	9503	06	20.0	4	SF	3	E	10		
0187	HOLL	18	2054	2055	2101	N20	E37	9506	06	21.7	7	2F	3	E	339		
			18 2115		2342	No Flare Patrol											
0188	URUM	19	0023E	0023U	0023D	S10	W23	9501	06	17.3	7D	1N		P	241	2.8	E
			19 0923		0951	No Flare Patrol											
			19 0959		1014	No Flare Patrol											
0189	HOLL	19	1821	1822	1829	N11	W01	9504	06	19.7	8	SF	3	E	18		
			19 1835		1848	No Flare Patrol											
			19 2127		2134	No Flare Patrol											
			19 2138		2335	No Flare Patrol											
0190	LEAR	19	2337E	2343U	2430	S10	W37	9501	06	17.2	53D	SF	2	E	42	F	
0191	URUM	20	0808E	0808	0808D	N16	W13	9503	06	19.3	53D	SN		P	161	1.8	E
0192	HOLL	20	1903	1905	1914	N08	W17	9504	06	19.5	11	SF	3	E	13		
0193	HOLL	20	2041	2043	2332D	N15	W19	9503	06	19.4	171D	1F	3	E	118	F	
			20 2047		2329	No Flare Patrol											
			20 2348		2400	No Flare Patrol											
			21 0000		0005	No Flare Patrol											
0194	URUM	21	0007E	0007	0010	N15	W23	9503	06	19.3	3D	1N		P	257	3.0	E
0195	URUM	21	0014	0018	0026	N18	W20	9503	06	19.5	12	SN		C	113	1.3	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10-6 Disk)	Corr (Sq Deg)		
0196		21	01129	01352	0146	N17	E08	9506	06	21.6	34	1N					114	2.3	EF	
	LEAR	21	0112	0135	0143	N16	E09	9506	06	21.7	31	SF		3	E		18		F	
	URUM	21	0121	0137	0149	N18	E07	9506	06	21.6	28	1B			C		209	2.3	E	
0197		21	01303	01334	0139	N08	W14	9504	06	20.0	9	SN					72	1.4	EFH	
	LEAR	21	0130	0133	0137	N06	W15	9504	06	19.9	7	SF		3	E		14		FH	
	URUM	21	0133	0137	0141	N09	W14	9504	06	20.0	8	SB			C		129	1.4	E	
0198		21	0318	03187	0323	N06	W19	9504	06	19.7	5	SN					44	0.7	DF	
	LEAR	21	0318	0318	0323	N06	W22	9504	06	19.5	5	SF		3	E		25		F	
	URUM	21	0325E	0325	0325D	N05	W16	9504	06	19.9	5D	SB			P		64	0.7	D	
0199	URUM	21	0325	0329	0333	N07	W23	9504	06	19.4	8	SN			C		48	0.5	D	
0200	URUM	21	0329E	0329	0329D	N16	W25	9503	06	19.2	8D	SB			P		80	0.9	D	
0201	LEAR	21	0437	0440	0450	N09	W22	9504	06	19.5	13	SF		3	E		19			
0202	URUM	21	0555E	0555	0600	N16	W25	9503	06	19.3	5D	2N			P		450	5.3	E	
		21	0927		1210	No Flare Patrol														
		21	1218		1228	No Flare Patrol														
0203		21	1601	1601	1606	N13	W24	9503	06	19.8	5	SF					31		F	
	RAMY	21	1601	1601	1605	N13	W24	9503	06	19.8	4	SF		3	E		23			
	SVTO	21	1601	1601	1606	N13	W24	9503	06	19.8	5	SF		3	E		32		F	
	HOLL	21	1601	1601	1607	N13	W24	9503	06	19.8	6	SF		3	E		38		F	
		21	2239		2344	No Flare Patrol														
0204		22	0501	05011	0504	N07	W37	9504	06	19.4	3	1N					97	2.1	E	
	LEAR	22	0501	0501	0504	N07	W36	9504	06	19.5	3	SF		3	E		33			
	URUM	22	0502E	0502	0502D	N07	W38	9504	06	19.4	3D	1B			P		161	2.1	E	
0205	SVTO	22	0633	0634	0640	N19	W32	9503	06	19.8	7	SF		3	E		10			
0206	URUM	22	0807	0815	0815D	N18	W37	9503	06	19.5	8D	SN			P		113	1.5	E	
0207		22	08521	0854	0907	N14	W40	9503	06	19.3	15	SF					24			
	LEAR	22	0852	0854	0912	N14	W40	9503	06	19.3	20	SF		3	E		30			
	SVTO	22	0853	0854	0902	N14	W40	9503	06	19.3	9	SF		3	E		18			
0208	SVTO	22	0922	0925	0941	N21	W35	9503	06	19.7	19	SF		3	E		54		FH	
0209	RAMY	22	1425	1429	1444	S07	W40	9509	06	19.6	19	1F		3	E		121		FH	
0210		22	1719	17283	1739	S08	W42	9509	06	19.6	20	SF					34		F	
	SVTO	22	1719	1728	1734	S06	W43	9509	06	19.5	15	SF		3	E		23			
	RAMY	22	1719	1728	1739	S07	W42	9509	06	19.6	20	SF		3	E		38		F	
	HOLL	22	1728E	1731	1745	S10	W40	9509	06	19.7	17D	SF		3	E		40		F	
0211		22	1816	18291	1843	N10	E29	9511	06	24.9	27	SN					44			
	HOLL	22	1816	1829	1843	N10	E29	9511	06	24.9	27	SN		3	E		57			
	RAMY	22	1816	1830	1843D	N11	E29	9511	06	24.9	27D	SN		3	E		31			
0212	HOLL	22	2022	2026	2052	N09	E28	9511	06	24.9	30	SF		3	E		39			
0213	HOLL	22	2114	2125	2142	N10	E27	9511	06	24.9	28	1N		3	E		111			
0214	HOLL	22	2217	2218U	2319	N14	W47	9503	06	19.4	62	1N		3	E		151		F	
		22	2219		2231	No Flare Patrol														
0215	HOLL	22	2319	2319	2323	N10	E26	9511	06	24.9	4	SF		3	E		20			
		22	2348		2354	No Flare Patrol														
0216	LEAR	23	0001	0014	0032	N09	E24	9511	06	24.8	31	1N		3	E		126		FH	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
								Region	Mo Day								Apparent (10-6 Disk)	Corr (Sq Deg)	
0217	LEAR	23	0208	0213	0217	N08	E24	9511	06	24.9	9	SF		3	E		20		F
0218	LEAR	23	0302	0320	0325	N10	E23	9511	06	24.8	23	SF		3	E		16		F
0219	LEAR	23	0343	0345	0356	N10	E24	9511	06	24.9	13	SF		3	E		20		F
0220		23	0401	0408	0457	N10	E23	9511	06	24.9	56	1N					146		EF
	LEAR	23	0401	0408	0459	N10	E23	9511	06	24.9	58	1B		3	E		248		E
	SVTO	23	0410E	0414U	0455	N11	E23	9511	06	24.9	45D	SF		2	E		43		F
0221	LEAR	23	0456	0501	0510	N14	W55	9503	06	19.0	14	SF		3	E		22		F
0222	SVTO	23	0507	0508	0522	N11	E23	9511	06	24.9	15	SF		3	E		22		F
0223		23	06203	0626	0709	N11	E21	9511	06	24.8	49	1N					164		EF
	LEAR	23	0620	0626	0718	N10	E21	9511	06	24.8	58	1N		3	E		197		EF
	SVTO	23	0623	0626	0700	N12	E21	9511	06	24.8	37	1F		3	E		132		F
0224	SVTO	23	0813	0814	0819	N11	E20	9511	06	24.8	6	SF		3	E		14		F
0225		23	0800*	0834	0902	N10	E20	9511	06	24.8	62	1F					68		EF
	LEAR	23	0800	0834	0921	N10	E20	9511	06	24.8	81	1F		3	E		100		EF
	SVTO	23	0828	0834	0842	N11	E21	9511	06	24.9	14	SF		3	E		35		F
0226	LEAR	23	0847	0850	0900	N20	W48	9503	06	19.7	13	SF		3	E		26		
0227	RAMY	23	1247	1248	1307	N09	E18	9511	06	24.9	20	SF		3	E		64		F
0228	SVTO	23	1252	1301	1313D	N12	E17	9511	06	24.8	21D	SF		3	E		20		F
0229		23	13112	13154	1322	N10	E18	9511	06	24.9	11	SF					18		
	RAMY	23	1311	1315	1323	N09	E18	9511	06	24.9	12	SF		3	E		25		
	HOLL	23	1313	1319	1321	N11	E17	9511	06	24.8	8	SF		3	E		10		
0230	RAMY	23	1326	1326	1332	N09	E18	9511	06	24.9	6	SF		3	E		10		F
0231		23	1340	13403	1348	S10	W54	9509	06	19.5	8	SF					15		
	HOLL	23	1340	1340	1350	S11	W54	9509	06	19.5	10	SF		3	E		18		
	RAMY	23	1340	1343	1347	S08	W54	9509	06	19.5	7	SF		3	E		12		
0232	HOLL	23	1415	1417	1420	N10	E17	9511	06	24.9	5	SF		3	E		24		
0233		23	14253	14313	1502	N10	E17	9511	06	24.9	37	SF					67		FH
	HOLL	23	1425	1431	1518	N10	E18	9511	06	24.9	53	SF		3	E		84		FH
	SVTO	23	1428	1432	1458	N12	E16	9511	06	24.8	30	SF		3	E		72		F
	RAMY	23	1428	1434	1450	N09	E17	9511	06	24.9	22	SF		3	E		46		F
0234	HOLL	23	1455	1456	1458	S05	E48	9515	06	27.2	3	SF		3	E		21		F
0235		23	14561	14563	1502	N20	W50	9503	06	19.8	6	SF					14		E
	HOLL	23	1456	1456	1502	N19	W51	9503	06	19.7	6	SF		3	E		12		E
	SVTO	23	1457	1459	1502	N21	W49	9503	06	19.9	5	SF		3	E		15		
0236	HOLL	23	1532	1533	1538	N18	W33	9505	06	21.1	6	SF		3	E		14		F
0237	HOLL	23	1639	1639	1645	N11	E19	9511	06	25.1	6	SF		3	E		22		
0238		23	16531	16532	1704	N10	E15	9511	06	24.8	11	SF					17		F
	RAMY	23	1653	1653	1659	N09	E16	9511	06	24.9	6	SF		3	E		14		
	HOLL	23	1653	1655	1710	N10	E15	9511	06	24.8	17	SF		3	E		26		F
	SVTO	23	1654	1655	1702	N10	E15	9511	06	24.8	8	SF		3	E		12		F
0239		23	16581	1700	1710	N20	W52	9503	06	19.7	12	SF					72		H
	RAMY	23	1658	1700	1710	N21	W51	9503	06	19.8	12	SF		3	E		78		
	HOLL	23	1659	1700	1709	N18	W52	9503	06	19.7	10	SF		3	E		67		H
0240		23	1712*	17262	1742	N10	E16	9511	06	24.9	30	SF					47		F
	HOLL	23	1712	1728	1748	N10	E15	9511	06	24.8	36	SF		3	E		65		
	RAMY	23	1724	1726	1736	N09	E16	9511	06	24.9	12	SF		3	E		29		F

H α SOLAR FLARES

JUNE 2001

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0241	RAMY	23	1801	1802	1806	N16	W61	9503	06	19.1	5	SF	3	E		18			
0242	HOLL	23	1957	2001	2012	N11	E13	9511	06	24.8	15	SF	3	E		42			
0243	LEAR	24	0313	0314	0319	N10	E13	9511	06	25.1	6	SF	2	E		31			FH
0244	LEAR	24	0634	0635	0640	N10	E11	9511	06	25.1	6	SF	3	E		31			
0245	LEAR	24	0723	0724	0733	N18	W35	9506	06	21.6	10	SF	3	E		15			
		24	0923		0937	No Flare Patrol													
0246	RAMY	24	1211	1211	1216	N17	W71	9507	06	19.1	5	SF	3	E		13			
0247	HOLL	24	1528	1528	1538	N13	W64	9503	06	19.8	10	SF	3	E		20			
		24	2146		2203	No Flare Patrol													
0248	LEAR	25	0026	0027	0032	N17	W75	9503	06	19.3	6	SF	3	E		32			
0249	LEAR	25	0802	0803	0808	N18	W50	9506	06	21.5	6	SF	3	E		16			
0250	LEAR	25	0816	0817	0826	N18	W53	9506	06	21.3	10	SF	3	E		14			
0251	LEAR	25	0856		0908D	S15	W49	9517	06	21.7	12D	SF	2	E		28			
0252	RAMY	25	1218	1219	1225	S13	W54	9517	06	21.4	7	SF	3	E		17			
0253	RAMY	25	1230	1234	1239	N20	W80	9503	06	19.4	9	1F	3	E		204			H
0254	HOLL	25	1449	1449	1453	S15	W53	9517	06	21.6	4	SF	3	E		16			
		25	1811		2352	No Flare Patrol													
0255	URUM	26	0259	0330	0330D	N22	E35	9513	06	28.8	31D	1N		P		241	3.2		E
0256	LEAR	26	0441	0442	0444	N16	W84	9503	06	19.8	3	SF	3	E		27			
0257	LEAR	26	0536	0539	0542	N24	E33	9513	06	28.8	6	SF	3	E		13			F
0258	LEAR	26	0613	0615	0618	N15	W85	9503	06	19.8	5	SF	3	E		35			
0259	LEAR	26	0905	0905	0911	N18	E22	9514	06	28.0	6	SF				16			H
	LEAR	26	0905	0905	0911	N17	E21	9514	06	28.0	6	SF	3	E		17			
	SVTO	26	0905	0907	0911	N18	E22	9514	06	28.0	6	SF	3	E		16			H
0260	SVTO	26	1100	1100	1105	N18	E20	9514	06	28.0	5	SF	3	E		22			H
0261	RAMY	26	1435	1437	1446	N18	E25	9513	06	28.5	11	SF	3	E		23			F
	SVTO	26	1436	1438	1444	N19	E26	9513	06	28.6	8	SF	3	E		23			F
		26	2211		2248	No Flare Patrol													
		26	2320		2341	No Flare Patrol													
0262	HOLL	27	0114	0116	0125	S48	E58	9518	07	1.9	11	SF	3	E		19			
0263	SVTO	27	0348	0350	0405	S20	W41	9512	06	24.0	17	SF	1	E		32	2.3		E
	LEAR	27	0350	0351	0407	S20	W41	9512	06	24.0	17	SF	3	E		21			
	URUM	27	0351E	0351	0407	S21	W44	9512	06	23.8	16D	1N		P		145	2.3		E
0264	LEAR	27	0709	0711	0719	S48	E50	9518	07	1.5	10	SF	3	E		13			
0265	LEAR	27	0733	0743	0804	S48	E52	9518	07	1.7	31	SF	3	E		54			
0266	LEAR	27	0823	0823	0831	S49	E54	9518	07	1.9	8	SF	3	E		15			
0267	LEAR	27	0846	0848	0902	S47	E49	9518	07	1.5	16	SF	3	E		33			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
						Region	Lat								Apparent (10-6 Disk)	Corr (Sq Deg)		
0268	URUM	27	0916E	0916	0925	S22	W41	9512	06	24.2	9D	1N		P		193	2.9	E
0269	URUM	27	0929E	0929	0937	N14	E27	9516	06	29.4	8D	SN		P		96	1.1	D
0270	URUM	27	1151	1154	1200	N12	W36	9511	06	24.8	9	SN		C		64	0.8	D
0271	RAMY	27	1250	1254	1258	S22	W45	9512	06	24.1	8	SF	3	E		10		F
		27	2038		2049	No Flare Patrol												
0272	HOLL	27	2247	2247	2303	S21	W48	9512	06	24.3	16	SF	3	E		81		F
0273	HOLL	27	2309	2309	2316	S21	W49	9512	06	24.2	7	SF	3	E		14		
0274		27	2359A	2404	2412	N12	W42	9511	06	24.8	13	SF				22		F
	HOLL	27	2359		2411	N13	W42	9511	06	24.8	12	SF	3	E		27		
	LEAR	28	0003	0004	0012	N12	W42	9511	06	24.8	9	SF	3	E		18		F
0275		28	0331	0341E	0405	S22	W52	9512	06	24.2	34	1N				125	3.6	EF
	LEAR	28	0331	0343	0405	S21	W52	9512	06	24.1	34	SF	3	E		57		F
	URUM	28	0341E	0341	0341D	S23	W52	9512	06	24.1	34D	1N		P		193	3.6	E
		28	1843		1851	No Flare Patrol												
0276	RAMY	28	2003	2003	2009	S28	W62	9512	06	24.0	6	SF	3	E		16		
0277	RAMY	28	2023	2024	2038	N02	W52	9511	06	25.0	15	SF	3	E		14		H
0278	RAMY	28	2104	2106	2110	N01	W52	9511	06	25.0	6	SF	3	E		16		F
		28	2203		2242	No Flare Patrol												
0279	MITK	29	0107	0113	0117	S47	E33	9518	07	1.8	10	SN		C	0113	90	1.8	D
0280	URUM	29	0304E	0304	0304D	S09	W24	9515	06	27.3	10D	1N		P		241	2.8	E
		29	0803		0832	No Flare Patrol												
		29	0916		0957	No Flare Patrol												
		29	1113		1128	No Flare Patrol												
0281	HOLL	29	1600	1601	1603	S50	E39	9523	07	3.0	3	SF	3	E		14		
		29	1936		2400	No Flare Patrol												
		30	0000		0012	No Flare Patrol												
0282	URUM	30	0824E	0824	0824D	S09	E31	9521	07	2.7	3D	1N		P		418	5.1	E
		30	1807		1814	No Flare Patrol												
		30	1923		2019	No Flare Patrol												
		30	2043		2140	No Flare Patrol												
		30	2204		2338	No Flare Patrol												

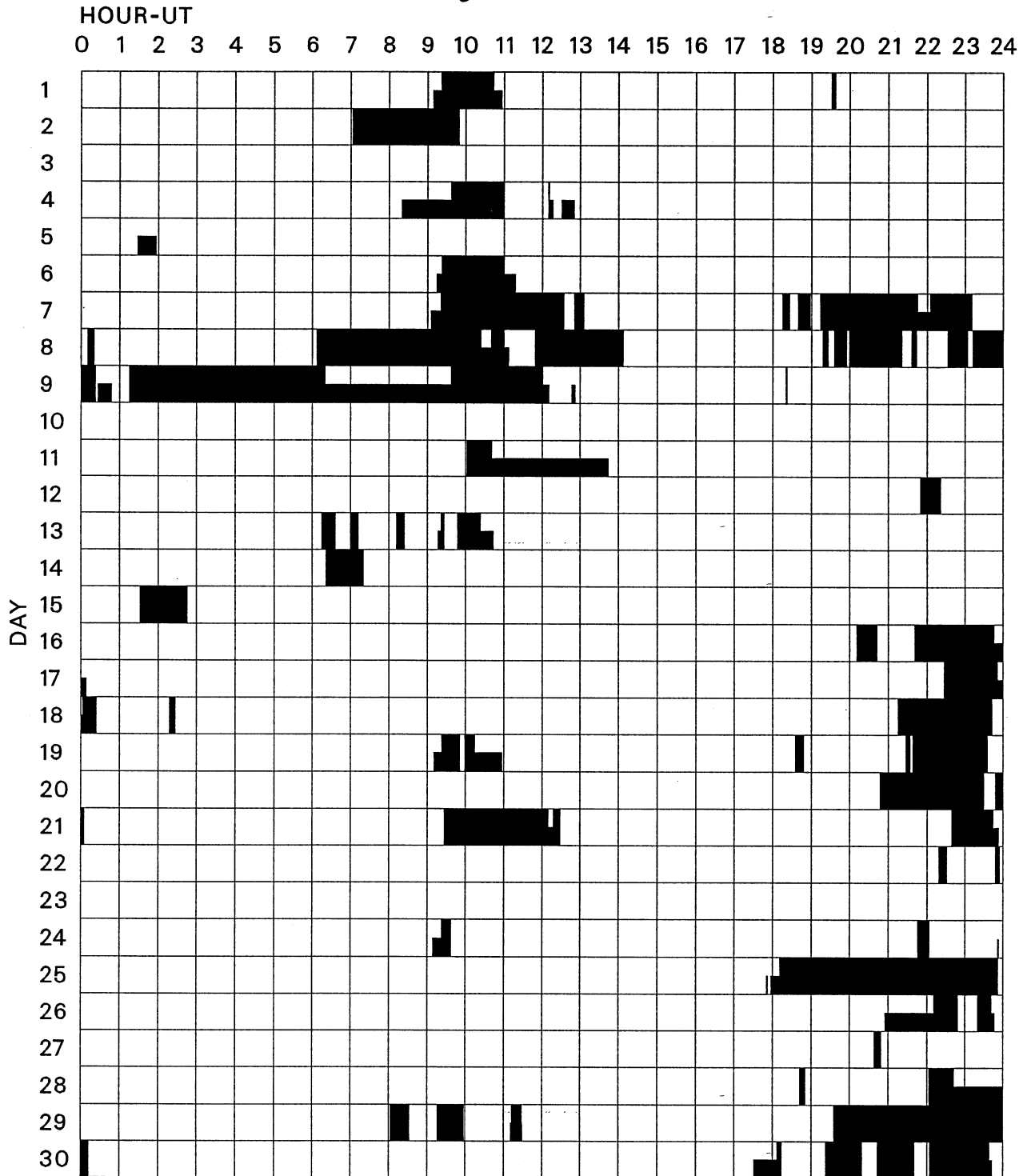
"Remarks"

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

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.

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

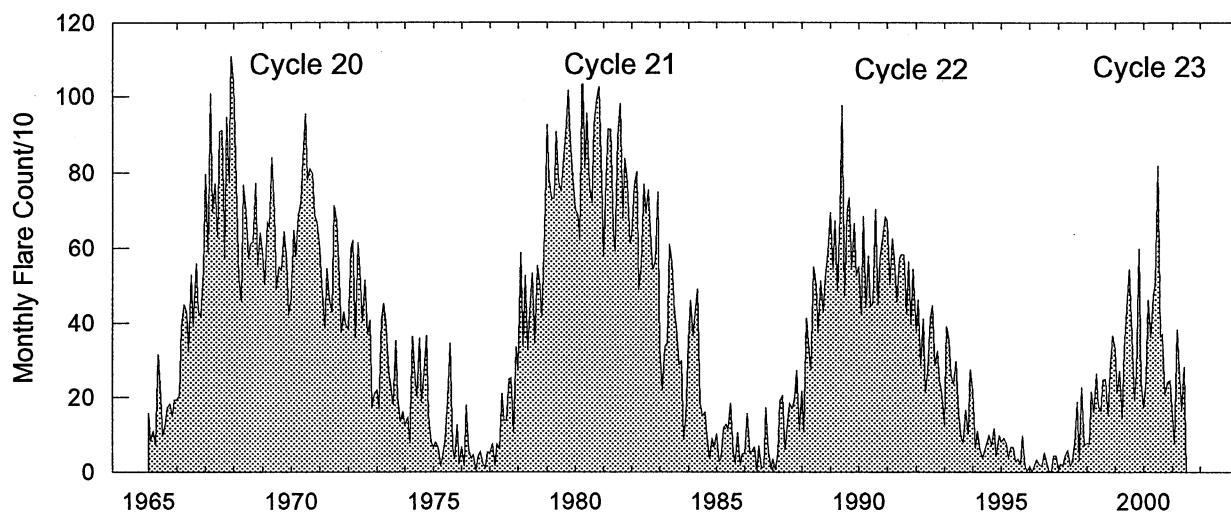
JUNE 2001



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 Urumqi Learmonth Ramey San Vito
Mitaka Voroshilov

Monthly Counts of Grouped Solar Flares Jan 1965 - Jun 2001



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							1337

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

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

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
01	280	CUBA	44 NS	1440.0E		140.0D		15.0		
	235	CUBA	44 NS	1440.0E		140.0D		6.0		
	204	IZMI	7 C	1144.7	1144.9	0.6	11.0			
	245	SVTO	8 S	1205.0	1206.0	2.0	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1206.0	1206.0	1.0	65.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1206.0	1206.0	1.0	15.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1206.0	1206.0	1.0	16.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1234.0	1234.0	1.0	320.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1234.0	1234.0	1.0	370.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1234.0	1234.0	686.0	370.0			QL=4 ST=1 TYP=3
	2800	PENT	1 S	1459.0	1500.0	2.0	13.0			
	245	SGMR	4 S/F	1459.0	1500.0	3.0	36.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1500.0	1500.0	U	53.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1500.0	1500.0	U	75.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1523.0	1524.0	2.0	6.0			
	245	SGMR	8 S	1622.0	1623.0	2.0	92.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1623.0	1623.0	1.0	44.0			QL=4 ST=2 TYP=3
245	SVTO	8 S	1623.0	1623.0	1.0	86.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1623.0	1623.0	1.0	68.0			QL=4 ST=2 TYP=3	
02	204	IZMI	43 NS	0849.0		191.0D		15.0		
	280	CUBA	44 NS	1300.0E		105.0D		15.0		
	235	CUBA	44 NS	1300.0E		165.0D		6.0		
	200	HIRA	8 S	0157.0	0159.0	2.0	45.0			ML
	245	LEAR	8 S	0723.0	0723.0	1.0	280.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0723.0	0723.0	1.0	330.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0723.0	0723.0	997.0	280.0			QL=4 ST=1 TYP=3
	204	IZMI	46 C	0723.7	0723.9	1.5	505.0			
	200	HIRA	8 S	0724.0	0724.0	1.0	200.0			0
	204	IZMI	7 C	0734.0	0734.1	0.2	28.0			0
	200	HIRA	8 S	2059.0	2059.0	1.0	5.0			0
	2800	PENT	29 PBI	2208.0	2212.0	24.0	3.0U			
	2804	VORO	32 ABS	2210.0	2346.0	400.0	8.6			
	2804	VORO	32 ABS	2210.0	2220.0	400.0	17.9			
	2840	PEKG	5 S	2242.0	2244.9	5.0	14.5			
2804	VORO	2 S/F	2245.0	2246.0	3.0	7.1				
200	HIRA	8 S	2256.0	2257.0	2.0	20.0			0	
03	204	IZMI	44 NS	0500.0E		420.0D		20.0		
	200	HIRA	8 S	0156.0	0156.0	1.0	20.0			0
	2804	VORO	3 S	0313.0	0320.0	17.0	19.1			
	200	HIRA	7 C	0840.0	0841.0	4.0	35.0			0
	245	SVTO	8 S	0840.0	0841.0	1.0	59.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	0840.0	0842.0	4.0				
	204	IZMI	41 F	0840.2	0840.5	4.4	89.0			
	245	SGMR	8 S	1026.0	1027.0	2.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1026.0	1027.0	1.0	250.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1026.5	1027.0	1.5				
	204	IZMI	45 C	1026.7	1026.9	0.8	302.0			
	2800	PENT	29 PBI	1346.0	1353.0	75.0	6.0			
	245	SGMR	8 S	1746.0	1748.0	2.0	64.0			QL=4 ST=2 TYP=3
	2800	PENT	42 SER	2056.0	2101.0	30.0	66.0			
	2800	HIRA	3 S	2100.0	2101.0	3.0	60.0			0
	500	HIRA	4 S/F	2100.0	2101.0	7.0	10.0			0
	200	HIRA	8 S	2100.0	2101.0	3.0	60.0			0
	2695	PALE	8 S	2101.0	2101.0	U	49.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2101.0	2101.0	U	34.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2101.0	2101.0	U	48.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	2101.0	2101.0	U	30.0			QL=4 ST=2 TYP=3
	200	HIRA	47 GB	2107.0	2115.0	17.0	1020.0			0
	500	HIRA	7 C	2109.0	2114.0	14.0	30.0			0
	245	SGMR	49 GB	2110.0	2115.0	6.0	730.0			QL=4 ST=2 TYP=6
410	SGMR	4 S/F	2110.0	2115.0	5.0	120.0			QL=4 ST=2 TYP=3	
245	PALE	48 C	2111.0	2115.0	9.0	1100.0			QL=4 ST=2 TYP=8	
410	PALE	48 C	2111.0	2115.0	4.0	180.0			QL=4 ST=2 TYP=8	
2800	HIRA	1 S	2117.0	2119.0	3.0	30.0			0	
4995	PALE	8 S	2118.0	2119.0	1.0	130.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	2118.0	2119.0	1.0	94.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	2118.0	2118.0	2.0	54.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
03	4995	SGMR	8 S	2118.0	2119.0	2.0	130.0			QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	2118.0	2118.0	5.0	110.0			QL=4 ST=2 TYP=3	
	15400	SGMR	4 S/F	2118.0	2119.0	5.0	38.0			QL=4 ST=2 TYP=3	
	15400	PALE	8 S	2119.0	2119.0	U	32.0			QL=4 ST=2 TYP=3	
	245	SGMR	4 S/F	2120.0	2120.0	3.0	99.0			QL=4 ST=2 TYP=3	
04	245	SGMR	43 NS	1431.0	1433.0	14.0	75.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1431.0	1433.0	569.0	75.0			QL=4 ST=1 TYP=1	
	245	SGMR	43 NS	1733.0	1858.0	132.0	100.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1733.0	1733.0	387.0	87.0			QL=4 ST=1 TYP=1	
	245	PALE	43 NS	1804.0	1857.0	255.0	150.0			QL=4 ST=2 TYP=1	
	245	PALE	43 NS	1804.0	1809.0	356.0	110.0			QL=4 ST=1 TYP=1	
	3000	IZMI	45 C	0757.2	0808.1	23.6	198.0	16.0			
	200	HIRA	8 S	0801.0	0802.0	1.0	65.0			0	
	2840	PEKG	45 C	0801.0	0807.9	28.0	202.5				
	204	IZMI	42 SER	0801.7	0802.0	1.3	136.0				
	33	UPIC	48 C	0805.5	0809.0U	13.5					
	2950	GORK	45 C	0805.5	0808.2	5.8	550.0				
	2950	GORK	45 C	0805.5	0808.8		320.0				
	204	IZMI	46 C	0805.8	0807.4	5.2	894.0				
	2800	HIRA	3 S	0806.0	0808.0	5.0	170.0			0	
	500	HIRA	4 S/F	0806.0	0812.0	9.0	25.0			0	
	245	LEAR	8 S	0806.0	0807.0	2.0	110.0			QL=4 ST=2 TYP=3	
	200	HIRA	7 C	0806.0	0807.0	13.0	320.0			0	
	245	LEAR	4 S/F	0806.0	0807.0	954.0	110.0			QL=4 ST=1 TYP=3	
	9100	GORK	45 C	0806.0	0808.3	3.4	14.0				
	9100	GORK	45 C	0806.0	0808.8		9.0				
	900	GORK	46 C	0806.0	0808.8		12.0				
	600	GORK	46 C	0806.0	0813.8		200.0				
	900	GORK	46 C	0806.0	0807.9	3.9	45.0				
	600	GORK	46 C	0806.0	0807.9	9.6	280.0				
	1415	LEAR	8 S	0807.0	0808.0	2.0	74.0			QL=4 ST=2 TYP=3	
	2695	LEAR	8 S	0807.0	0808.0	2.0	210.0			QL=4 ST=2 TYP=3	
	4995	LEAR	8 S	0807.0	0808.0	2.0	220.0			QL=4 ST=2 TYP=3	
	8800	LEAR	4 S/F	0807.0	0808.0	3.0	160.0			QL=4 ST=2 TYP=3	
	1415	LEAR	4 S/F	0807.0	0808.0	953.0	74.0			QL=4 ST=1 TYP=3	
	2695	LEAR	4 S/F	0807.0	0808.0	953.0	210.0			QL=4 ST=1 TYP=3	
	4995	LEAR	4 S/F	0807.0	0808.0	953.0	220.0			QL=4 ST=1 TYP=3	
	8800	LEAR	4 S/F	0807.0	0808.0	953.0	160.0			QL=4 ST=1 TYP=3	
	15400	LEAR	8 S	0808.0	0808.0	U	48.0			QL=4 ST=2 TYP=3	
	15400	SVTO	8 S	0808.0	0808.0	1.0	61.0			QL=4 ST=2 TYP=3	
	15400	LEAR	4 S/F	0808.0	0808.0	952.0	48.0			QL=4 ST=1 TYP=3	
	9100	GORK	29 PBI	0809.5	0809.5	34.5	30.0				
	900	GORK	30 PBI	0809.9	0809.9	14.4	11.0				
	204	IZMI	41 F	0811.0	0813.2	5.0	47.0				
	900	GORK	42 SER	0811.0	0811.3	3.0	4.0				
	900	GORK	42 SER	0811.0	0813.8	3.0	4.0				
	33	UPIC	42 SER	1208.0		270.0					
	2800	PENT	1 S	1356.0	1359.0	5.0	6.0				
	2800	PENT	29 PBI	1507.0	1513.0	85.0U	20.0				
	9500	CUBA	1 S	1512.0	1513.8	5.0	16.0	8.0			
	6700	CUBA	1 S	1512.3	1513.6	2.7	11.0	5.0			47R
	245	SGMR	8 S	1530.0	1531.0	1.0	69.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1639.0	1640.0	1.0	77.0			QL=4 ST=3 TYP=3	
	245	SGMR	8 S	1639.0	1640.0	1.0	77.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	1655.0	1655.0	1.0	220.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1656.0	1656.0	U	150.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	1701.0	1701.0	U	88.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1701.0	1702.0	1.0	69.0			QL=4 ST=2 TYP=3		
245	PALE	8 S	1732.0	1732.0	1.0	120.0			QL=4 ST=2 TYP=3		
245	PALE	8 S	1735.0	1735.0	2.0	110.0			QL=4 ST=2 TYP=3		
245	SGMR	8 S	1858.0	1858.0	1.0	480.0			QL=2 ST=2 TYP=3		
2800	PENT	1 S	1909.0	1912.0	6.0	13.0					
200	HIRA	8 S	2016.0	2016.0	1.0	40.0			WR		
245	SGMR	8 S	2144.0	2145.0	1.0	64.0			QL=4 ST=2 TYP=3		
200	HIRA	8 S	2221.0	2222.0	2.0	55.0			MR		
2804	VORO	22 GRF	2229.0	2257.5	81.0	8.7					
2840	PEKG	20 GRF	2249.0	2254.6	16.0	4.9					
2804	VORO	2 S/F	2253.1	2255.0	4.4	7.2					

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Outstanding Occurrences

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m	2 Hz)		
04	200	HIRA	8 S	2308.0	2309.0	1.0	20.0			0
	245	SGMR	8 S	2309.0	2309.0	1.0	110.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	2309.0	2309.0	1.0	46.0			QL=2 ST=2 TYP=3
05	204	IZMI	43 NS	0500.0		420.0D		10.0		
	280	CUBA	44 NS	1300.0E		420.0D		8.0		
	235	CUBA	44 NS	1300.0E		420.0D		7.0		
	2800	PENT	1 S	0028.0	0035.0	15.0	10.0			
	2840	PEKG	1 S	0033.0	0035.7	6.0	7.4			
	2804	VORO	2 S/F	0034.7	0035.5	1.8	8.7			
	200	HIRA	8 S	0036.0	0036.0	1.0	25.0			0
	245	LEAR	8 S	0105.0	0105.0		64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0126.0	0126.0		52.0			QL=4 ST=2 TYP=3
	2840	PEKG	47 GB	0441.0	0447.0	33.0	970.1			
	600	GORK	47 GB	0442.4	0447.8	14.3	700.0			
	900	GORK	4 S/F	0442.7	0446.8	4.1	200.0U			
	2950	GORK	47 GB	0442.8	0448.3	10.2	690.0			
	4995	SVTO	4 S/F	0443.0	0445.0	8.0	490.0			QL=4 ST=2 TYP=3
	2800	HIRA	47 GB	0443.0	0447.0	11.0	835.0			WL
	500	HIRA	4 S/F	0443.0	0447.0	10.0	235.0			0
	200	HIRA	47 GB	0443.0	0446.0	13.0	2510.0			0
	4995	SVTO	4 S/F	0443.0	0445.0	1157.0	490.0			QL=4 ST=1 TYP=3
	245	LEAR	49 GB	0444.0	0446.0	8.0	3900.0			QL=4 ST=2 TYP=6
	1415	LEAR	49 GB	0444.0	0446.0	4.0	570.0			QL=4 ST=2 TYP=6
	2695	LEAR	49 GB	0444.0	0446.0	5.0	1000.0			QL=4 ST=2 TYP=6
	4995	LEAR	49 GB	0444.0	0446.0	5.0	530.0			QL=4 ST=2 TYP=6
	2695	PALE	49 GB	0444.0	0446.0	4.0	650.0			QL=4 ST=2 TYP=6
	4995	PALE	49 GB	0444.0	0446.0	4.0	580.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0444.0	0446.0	6.0	4400.0			QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	0444.0	0446.0	4.0	540.0			QL=4 ST=2 TYP=6
	2695	SVTO	49 GB	0444.0	0446.0	5.0	900.0			QL=4 ST=2 TYP=6
	8800	SVTO	4 S/F	0444.0	0445.0	4.0	260.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0444.0	0446.0	1156.0	3900.0			QL=4 ST=1 TYP=6
	1415	LEAR	49 GB	0444.0	0446.0	1156.0	570.0			QL=4 ST=1 TYP=6
	2695	LEAR	49 GB	0444.0	0446.0	1156.0	1000.0			QL=4 ST=1 TYP=6
	4995	LEAR	49 GB	0444.0	0446.0	1156.0	530.0			QL=4 ST=1 TYP=6
	2695	PALE	49 GB	0444.0	0446.0	1156.0	650.0			QL=4 ST=1 TYP=6
	4995	PALE	49 GB	0444.0	0446.0	1156.0	580.0			QL=4 ST=1 TYP=6
	245	SVTO	49 GB	0444.0	0446.0	1156.0	4400.0			QL=4 ST=1 TYP=6
	1415	SVTO	49 GB	0444.0	0446.0	1156.0	540.0			QL=4 ST=1 TYP=6
	2695	SVTO	49 GB	0444.0	0446.0	1156.0	900.0			QL=4 ST=1 TYP=6
	8800	SVTO	4 S/F	0444.0	0445.0	1156.0	260.0			QL=4 ST=1 TYP=3
	33	UPIC	48 C	0444.5	0447.0	13.0				
	410	LEAR	4 S/F	0445.0	0446.0	5.0	200.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0445.0	0446.0	3.0	580.0			QL=4 ST=2 TYP=6
	8800	LEAR	4 S/F	0445.0	0445.0	3.0	270.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0445.0	0445.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0445.0	0446.0	2.0	2300.0			QL=4 ST=2 TYP=6
	1415	PALE	49 GB	0445.0	0446.0	3.0	610.0			QL=4 ST=2 TYP=6
	8800	PALE	8 S	0445.0	0446.0	2.0	260.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0445.0	0446.0	5.0	310.0			QL=4 ST=2 TYP=3
	610	SVTO	49 GB	0445.0	0446.0	3.0	510.0			QL=4 ST=2 TYP=6
	15400	SVTO	8 S	0445.0	0445.0	2.0	85.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0445.0	0446.0	1155.0	200.0			QL=4 ST=1 TYP=3
	610	LEAR	49 GB	0445.0	0446.0	1155.0	580.0			QL=4 ST=1 TYP=6
	8800	LEAR	4 S/F	0445.0	0445.0	1155.0	270.0			QL=4 ST=1 TYP=3
	15400	LEAR	4 S/F	0445.0	0445.0	1155.0	100.0			QL=4 ST=1 TYP=3
	245	PALE	49 GB	0445.0	0446.0	1155.0	2300.0			QL=4 ST=1 TYP=6
	1415	PALE	49 GB	0445.0	0446.0	1155.0	610.0			QL=4 ST=1 TYP=6
	8800	PALE	4 S/F	0445.0	0446.0	1155.0	260.0			QL=4 ST=1 TYP=3
	410	SVTO	4 S/F	0445.0	0446.0	1155.0	310.0			QL=4 ST=1 TYP=3
	610	SVTO	49 GB	0445.0	0446.0	1155.0	510.0			QL=4 ST=1 TYP=6
	15400	SVTO	4 S/F	0445.0	0445.0	1155.0	85.0			QL=4 ST=1 TYP=3
	204	IZMI	42 SER	0501.4	0501.4	0.7	9.0			
	204	IZMI	42 SER	0508.7	0508.7	0.3	18.0			
	200	HIRA	8 S	0509.0	0509.0	1.0	10.0			0
	245	LEAR	8 S	0510.0	0510.0		64.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0510.0	0510.0		53.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0610.0	0610.0	2.0	93.0			QL=4 ST=2 TYP=3

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JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
05	245	SVTO	8 S	0610.0	0610.0	2.0	100.0			QL=4 ST=3 TYP=3	
	245	SVTO	8 S	0610.0	0610.0	U	100.0			QL=4 ST=3 TYP=3	
	245	SVTO	8 S	0610.0	0610.0	2.0	100.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0610.0	0610.0	U	100.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0611.0	0612.0	1.0	65.0			QL=4 ST=4 TYP=3	
	245	SVTO	8 S	0611.0	0612.0	1.0	65.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0618.0	0618.0	1.0	55.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0618.0	0618.0	U	52.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0920.0	0920.0	1.0	66.0			QL=4 ST=2 TYP=3	
	204	IZMI	42 SER	0943.8	0945.5	3.8	88.0				
	2800	PENT	29 PBI	1409.0	1419.0	143.0U	23.0				
	6700	CUBA	21 GRF	1411.0	1427.0	70.0	7.0	3.0		00L	
	9500	CUBA	21 GRF	1418.0	1422.0	70.0	9.0	4.0			
	6700	CUBA	1 S	1418.7	1419.5	2.3	22.0	11.0		18L	
	9500	CUBA	1 S	1419.0	1419.5	1.0	12.0	6.0			
2800	PENT	1 S	2036.0	2039.0	6.0	3.0					
06	245	LEAR	43 NS	0116.0	0117.0	434.0	54.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	0116.0	0117.0	1364.0	54.0			QL=4 ST=1 TYP=1	
	204	IZMI	44 NS	0500.0E		420.0D		60.0			
	127	TORN	44 NS	1150.0E		190.0D		20.0		V=1	
	235	CUBA	44 NS	1500.0E		240.0D		8.0			
	280	CUBA	44 NS	1500.0E		250.0D		17.0			
	245	LEAR	8 S	0044.0	0045.0	1.0	55.0				QL=4 ST=2 TYP=3
	204	IZMI	41 F	0545.6	0545.8	0.4	52.0				
	245	SVTO	8 S	0704.0	0704.0	2.0	55.0				QL=4 ST=3 TYP=3
	245	SVTO	8 S	0704.0	0704.0	2.0	55.0				QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0821.0	0822.0	3.0	68.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0927.0	0928.0	1.0	77.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0941.0	0941.0	U	56.0				QL=4 ST=2 TYP=3
	204	IZMI	45 C	1003.0	1003.1	0.2	116.0				
	33	UPIC	42 SER	1028.0	1304.0	284.0					
	410	SVTO	8 S	1208.0	1208.0	1.0	60.0				QL=4 ST=3 TYP=3
	410	SVTO	8 S	1208.0	1208.0	1.0	60.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	1210.0	1210.0	U	57.0				QL=4 ST=3 TYP=3
	610	SVTO	8 S	1210.0	1210.0	U	57.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1236.0	1237.0	2.0	140.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1236.0	1236.0	2.0	49.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1236.0	1236.0	2.0	80.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1236.0	1237.0	2.0	130.0				QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1236.0	1237.0	3.0	21.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	1236.0	1236.0	U	61.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1303.0	1304.0	2.0	360.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1304.0	1304.0	2.0	370.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1304.0	1304.0	1.0	150.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1343.0	1344.0	2.0	190.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1431.0	1431.0	U	76.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1431.0	1431.0	U	71.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1431.0	1431.0	U	33.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1432.0	1432.0	U	51.0				QL=4 ST=3 TYP=3
	610	SGMR	8 S	1432.0	1432.0	U	45.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	1705.0	1705.0	1.0	41.0				QL=4 ST=4 TYP=3
	410	PALE	8 S	1705.0	1705.0	1.0	41.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	1713.0	1714.0	1.0	130.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1713.0	1713.0	1.0	110.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1713.0	1713.0	1.0	92.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1750.0	1751.0	2.0	47.0				QL=4 ST=2 TYP=3
	2800	PENT	32 ABS	1828.0	1855.0	55.0	2.0				
	245	PALE	8 S	1835.0	1836.0	1.0	60.0				QL=4 ST=2 TYP=3
245	PALE	49 GB	1845.0	1846.0	2.0	830.0				QL=4 ST=2 TYP=6	
410	PALE	8 S	1845.0	1846.0	2.0	120.0				QL=4 ST=2 TYP=3	
410	SGMR	4 S/F	1845.0	1847.0	4.0	110.0				QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1846.0	1846.0	3.0	560.0				QL=4 ST=2 TYP=6	
245	SGMR	8 S	1849.0	1850.0	1.0	40.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1849.0	1850.0	1.0	88.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	1915.0	1915.0	1.0	150.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	1915.0	1915.0	1.0	66.0				QL=4 ST=2 TYP=3	
200	HIRA	8 S	1933.0	1934.0	2.0	10.0				0	
245	PALE	8 S	1933.0	1934.0	2.0	330.0				QL=4 ST=2 TYP=3	

S O L A R R A D I O E M I S S I O N
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JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks		
							Peak	Mean				
							(10 -22 W/m 2 Hz)					
06	410	PALE	49 GB	1933.0	1933.0	2.0	630.0		QL=4	ST=2	TYP=6	
	245	SGMR	8 S	1933.0	1934.0	1.0	250.0		QL=4	ST=2	TYP=3	
	410	SGMR	8 S	1933.0	1933.0	2.0	470.0		QL=4	ST=2	TYP=3	
	245	PALE	4 S/F	1937.0	1938.0	3.0	270.0		QL=4	ST=2	TYP=3	
	410	PALE	4 S/F	1937.0	1937.0	3.0	400.0		QL=4	ST=2	TYP=3	
	245	SGMR	4 S/F	1937.0	1938.0	5.0	220.0		QL=4	ST=2	TYP=3	
	410	SGMR	4 S/F	1937.0	1938.0	5.0	330.0		QL=4	ST=2	TYP=3	
	2800	PENT	29 PBI	2110.0	2122.0	82.0U	20.0					
	245	PALE	48 C	2124.0	2130.0	6.0	1400.0		QL=4	ST=2	TYP=8	
	245	PALE	49 GB	2124.0	2126.0	156.0	680.0		QL=4	ST=1	TYP=6	
	500	HIRA	7 C	2125.0	2126.0	6.0	350.0		MR			
	410	PALE	49 GB	2125.0	2126.0	5.0	1600.0		QL=4	ST=2	TYP=6	
	410	SGMR	49 GB	2125.0	2126.0	6.0	1600.0		QL=4	ST=2	TYP=6	
	410	PALE	49 GB	2125.0	2126.0	155.0	1600.0		QL=4	ST=1	TYP=6	
	410	SGMR	49 GB	2125.0	2126.0	155.0	1600.0		QL=4	ST=1	TYP=6	
	610	PALE	8 S	2126.0	2126.0	U	29.0		QL=4	ST=2	TYP=3	
	245	SGMR	4 S/F	2126.0	2128.0	5.0	200.0		QL=4	ST=2	TYP=3	
	610	SGMR	46 C	2126.0	2130.0	5.0	25.0		QL=4	ST=2	TYP=8	
	245	SGMR	4 S/F	2126.0	2128.0	154.0	200.0		QL=4	ST=1	TYP=3	
	610	SGMR	4 S/F	2126.0	2127.0	154.0	17.0		QL=4	ST=1	TYP=3	
	245	SGMR	8 S	2139.0	2139.0	1.0	170.0		QL=4	ST=2	TYP=3	
	410	SGMR	8 S	2139.0	2139.0	1.0	100.0		QL=4	ST=2	TYP=3	
	500	HIRA	8 S	2140.0	2140.0	1.0	30.0		0			
	245	PALE	8 S	2200.0	2201.0	1.0	65.0		QL=4	ST=2	TYP=3	
	245	SGMR	8 S	2200.0	2201.0	2.0	50.0		QL=4	ST=2	TYP=3	
	500	HIRA	8 S	2207.0	2208.0	1.0	20.0		0			
	410	PALE	8 S	2207.0	2207.0	U	66.0		QL=4	ST=2	TYP=3	
	410	SGMR	8 S	2207.0	2207.0	1.0	63.0		QL=4	ST=2	TYP=3	
	200	HIRA	8 S	2313.0	2314.0	3.0	55.0		WR			
	500	HIRA	8 S	2314.0	2315.0	1.0	170.0		MR			
	410	LEAR	49 GB	2314.0	2315.0	1.0	520.0		QL=4	ST=2	TYP=6	
	8800	PALE	4 S/F	2314.0	2314.0	5.0	75.0		QL=4	ST=2	TYP=3	
	410	LEAR	49 GB	2314.0	2315.0	46.0	520.0		QL=4	ST=1	TYP=6	
	245	LEAR	8 S	2315.0	2315.0	U	270.0		QL=4	ST=2	TYP=3	
	245	PALE	8 S	2315.0	2315.0	U	250.0		QL=4	ST=2	TYP=3	
	410	PALE	49 GB	2315.0	2315.0	U	1000.0		QL=4	ST=2	TYP=6	
	610	PALE	8 S	2315.0	2315.0	U	55.0		QL=4	ST=2	TYP=3	
	245	SGMR	8 S	2315.0	2315.0	1.0	130.0		QL=2	ST=2	TYP=3	
	410	SGMR	49 GB	2315.0	2315.0	1.0	510.0		QL=2	ST=2	TYP=6	
	245	LEAR	4 S/F	2315.0	2315.0	45.0	270.0		QL=4	ST=1	TYP=3	
	500	HIRA	8 S	2317.0	2318.0	4.0	250.0		MR			
	410	LEAR	49 GB	2317.0	2318.0	3.0	800.0		QL=4	ST=2	TYP=6	
	245	PALE	8 S	2317.0	2318.0	2.0	460.0		QL=4	ST=3	TYP=3	
	245	PALE	8 S	2317.0	2318.0	2.0	460.0		QL=4	ST=2	TYP=3	
	410	PALE	49 GB	2317.0	2318.0	3.0	1600.0		QL=4	ST=3	TYP=6	
	410	PALE	49 GB	2317.0	2318.0	3.0	1600.0		QL=4	ST=2	TYP=6	
	410	SGMR	49 GB	2317.0	2318.0	3.0	700.0		QL=2	ST=2	TYP=6	
	200	HIRA	8 S	2318.0	2318.0	2.0	50.0		0			
	245	LEAR	4 S/F	2318.0	2318.0	4.0	260.0		QL=4	ST=2	TYP=3	
	610	LEAR	4 S/F	2318.0	2318.0	4.0	31.0		QL=4	ST=2	TYP=3	
	245	SGMR	8 S	2318.0	2318.0	2.0	200.0		QL=2	ST=2	TYP=3	
	500	HIRA	8 S	2338.0	2338.0	1.0	150.0		MR			
	200	HIRA	8 S	2338.0	2338.0	1.0	30.0		0			
	245	PALE	8 S	2338.0	2340.0	2.0	320.0		QL=4	ST=2	TYP=3	
	410	PALE	49 GB	2338.0	2338.0	1.0	810.0		QL=4	ST=2	TYP=6	
	07	204	IZMI	44 NS	0500.0E		420.0D		10.0			
		280	CUBA	44 NS	1317.0E		389.0D		14.0			
		235	CUBA	44 NS	1317.0E		389.0D		6.0			
		200	HIRA	8 S	0042.0	0043.0	1.0	15.0		0		
		200	HIRA	7 C	0106.0	0109.0	3.0	15.0		WR		
		500	HIRA	8 S	0109.0	0110.0	1.0	70.0		WR		
		410	LEAR	8 S	0109.0	0109.0	1.0	170.0		QL=4	ST=2	TYP=3
		410	PALE	8 S	0109.0	0110.0	1.0	280.0		QL=4	ST=2	TYP=3
		500	HIRA	8 S	0143.0	0144.0	1.0	25.0		0		
		200	HIRA	8 S	0143.0	0143.0	1.0	20.0		WR		
		500	HIRA	7 C	0247.0	0248.0	7.0	175.0		WR		
		410	PALE	48 C	0247.0	0252.0	6.0	130.0		QL=4	ST=2	TYP=8
		200	HIRA	8 S	0248.0	0250.0	2.0	40.0		WR		

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
07	245	LEAR	8 S	0248.0	0249.0	2.0	220.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	0248.0	0249.0	2.0	250.0			QL=4 ST=2 TYP=3	
	410	LEAR	8 S	0249.0	0249.0	1.0	39.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0252.0	0252.0	1.0	56.0			QL=4 ST=2 TYP=3	
	410	LEAR	8 S	0252.0	0252.0	1.0	82.0			QL=4 ST=2 TYP=3	
	2804	VORO	2 S/F	0258.5	0259.4	2.0	5.5				
	200	HIRA	7 C	0355.0	0358.0	3.0	40.0				0
	500	HIRA	7 C	0356.0	0356.0	7.0	60.0				WR
	410	LEAR	8 S	0356.0	0356.0		64.0			U	
	245	LEAR	8 S	0357.0	0357.0	1.0	86.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0359.0	0359.0	2.0	110.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	0359.0	0400.0	2.0	130.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0400.0	0401.0	1.0	37.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0455.0	0455.0	1.0	86.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0455.0	0455.0		62.0			U	QL=4 ST=2 TYP=3
	204	IZMI	45 C	0455.5	0455.7	0.4	156.0				
	204	IZMI	42 SER	0501.9	0505.2	4.3	281.0				
	2840	PEKG	5 S	0503.0	0505.3	4.0	30.5				
	200	HIRA	8 S	0504.0	0505.0	2.0	90.0				WR
	245	LEAR	8 S	0504.0	0505.0	2.0	200.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0504.0	0505.0	2.0	150.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0505.0	0505.0	1.0	120.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0505.0	0505.0	1.0	170.0				QL=4 ST=2 TYP=3
	500	HIRA	8 S	0506.0	0506.0	1.0	10.0				0
	3000	IZMI	5 S	0506.2	0506.3	0.2	39.0	17.0			
	245	LEAR	8 S	0510.0	0511.0	1.0	52.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0510.0	0510.0	1.0	39.0				QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0510.0	0511.0	4.0	36.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0510.0	0510.0	2.0	73.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0625.0	0626.0	1.0	52.0				QL=4 ST=2 TYP=3
	204	IZMI	46 C	0625.6	0626.4	1.1	120.0				
	200	HIRA	8 S	0626.0	0626.0	1.0	50.0				0
	204	IZMI	42 SER	0628.2	0629.5	3.7	38.0				
	600	GORK	3 S	0700.8	0701.2	0.4	25.0				
	204	IZMI	42 SER	0701.0	0702.4	4.9	52.0				
	245	SVTO	8 S	0703.0	0703.0	1.0	52.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0703.0	0704.0	1.0	39.0				QL=4 ST=2 TYP=3
	500	HIRA	3 S	0707.0	0708.0	5.0	75.0				WR
	200	HIRA	3 S	0707.0	0710.0	5.0	480.0				MR
	410	LEAR	49 GB	0707.0	0709.0	4.0	1300.0				QL=4 ST=2 TYP=6
	410	SVTO	49 GB	0707.0	0709.0	4.0	2700.0				QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0707.0	0709.0	1013.0	1300.0				QL=4 ST=1 TYP=6
	410	SVTO	49 GB	0707.0	0709.0	1013.0	2700.0				QL=4 ST=1 TYP=6
	600	GORK	4 S/F	0707.7	0708.4	4.1	33.0				
	204	IZMI	46 C	0707.9	0709.9	3.9	2889.3				
	245	LEAR	49 GB	0708.0	0709.0	3.0	3600.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0708.0	0709.0	3.0	2600.0				QL=4 ST=2 TYP=6
	245	LEAR	49 GB	0708.0	0709.0	1012.0	3600.0				QL=4 ST=1 TYP=6
	245	SVTO	49 GB	0708.0	0709.0	1012.0	2600.0				QL=4 ST=1 TYP=6
	245	SGMR	8 S	1347.0	1347.0	2.0	70.0				QL=4 ST=2 TYP=3
245	SVTO	8 S	1347.0	1347.0	1.0	58.0				QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	1601.0	1613.0	31.0U	14.0					
410	SGMR	49 GB	1612.0	1613.0	1.0	700.0				QL=4 ST=2 TYP=6	
1415	SGMR	8 S	1612.0	1613.0	1.0	45.0				QL=4 ST=2 TYP=3	
410	SVTO	49 GB	1612.0	1612.0	1.0	800.0				QL=4 ST=3 TYP=6	
410	SVTO	8 S	1612.0	1612.0	1.0	380.0				QL=4 ST=2 TYP=3	
1415	SVTO	8 S	1612.0	1613.0	1.0	35.0				QL=4 ST=2 TYP=3	
6700	CUBA	22 GRF	1642.0	1655.0	26.0	7.0	3.0			13L	
245	SGMR	8 S	1711.0	1711.0	1.0	95.0				QL=4 ST=4 TYP=3	
245	SGMR	8 S	1711.0	1711.0	1.0	95.0				QL=4 ST=3 TYP=3	
245	SGMR	8 S	1711.0	1711.0	1.0	95.0				QL=4 ST=2 TYP=3	
245	SVTO	8 S	1712.0	1712.0		100.0			U	QL=2 ST=2 TYP=3	
2800	PENT	29 PBI	1858.0	1908.0	34.0U	20.0					
245	SGMR	49 GB	1908.0	1908.0	3.0	530.0				QL=4 ST=4 TYP=6	
245	SGMR	49 GB	1908.0	1908.0	3.0	530.0				QL=4 ST=2 TYP=6	
410	SGMR	4 S/F	1908.0	1908.0	3.0	87.0				QL=4 ST=4 TYP=3	
410	SGMR	4 S/F	1908.0	1908.0	3.0	87.0				QL=4 ST=2 TYP=3	
2800	PENT	24 R	2055.0	2231.0	97.0U	10.0					

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak	Mean			
							(10 -22 W/m 2 Hz)				
08	204	IZMI	44 NS	0508.0E		412.0D		30.0			
	245	LEAR	43 NS	0826.0	0843.0	42.0	82.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	0826.0	0828.0	934.0	71.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	0826.0	0843.0	934.0	82.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0843.0	0843.0	43.0	60.0			QL=2 ST=2 TYP=1	
	245	SVTO	43 NS	0843.0	0843.0	917.0	60.0			QL=2 ST=1 TYP=1	
	127	TORN	44 NS	1000.0E		300.0D		50.0			V=1
	280	CUBA	44 NS	1300.0E		530.0D		19.0			
	235	CUBA	44 NS	1300.0E		530.0D		10.0			
	200	HIRA	8 S	0005.0	0005.0	1.0	35.0				WR
	200	HIRA	8 S	0024.0	0024.0	1.0	30.0				WR
	245	LEAR	8 S	0024.0	0024.0		U	160.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0114.0	0115.0	1.0	66.0				QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0214.0	0227.0	26.0	57.8				
	2804	VORO	28 PRE	0216.5	0225.0	9.0	13.6				
	200	HIRA	8 S	0222.0	0224.0	5.0	290.0				0
	245	LEAR	4 S/F	0222.0	0224.0	3.0	330.0				QL=4 ST=2 TYP=3
	410	LEAR	48 C	0222.0	0225.0	4.0	62.0				QL=4 ST=2 TYP=8
	245	PALE	4 S/F	0222.0	0224.0	5.0	250.0				QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0222.0	0223.0	8.0	64.0				QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0222.0	0224.0	1298.0	330.0				QL=4 ST=1 TYP=3
	410	LEAR	4 S/F	0222.0	0222.0	1298.0	53.0				QL=4 ST=1 TYP=3
	410	LEAR	48 C	0222.0	0225.0	1298.0	62.0				QL=4 ST=1 TYP=8
	500	HIRA	4 S/F	0223.0	0225.0	7.0	40.0				0
	2695	LEAR	8 S	0223.0	0224.0	1.0	25.0				QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0225.5	0226.8	4.5	37.8				
	2800	HIRA	8 S	0226.0	0227.0	4.0	35.0				0
	1415	LEAR	8 S	0226.0	0227.0	1.0	28.0				QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0226.0	0226.0	2.0	35.0				QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0226.0	0227.0	1294.0	28.0				QL=4 ST=1 TYP=3
	4995	LEAR	4 S/F	0226.0	0226.0	1294.0	35.0				QL=4 ST=1 TYP=3
	8800	LEAR	8 S	0227.0	0227.0		U	22.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0511.8	0511.9	0.1	70.0				
	410	LEAR	8 S	0732.0	0732.0		U	150.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0732.0	0732.0		U	390.0			QL=4 ST=2 TYP=3
	204	IZMI	25 R	0754.0		61.0		50.0			
	245	SVTO	8 S	0828.0	0828.0		U	54.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1018.5	1018.9	0.6	47.0				
	3000	IZMI	7 C	1048.6	1048.9	1.0	15.0	7.0			
	33	UPIC	46 C	1115.0	1115.5	3.0					
	33	UPIC	46 C	1314.0	1314.5	1.5					
	245	SGMR	8 S	1711.0	1711.0	1.0	95.0				QL=4 ST=4 TYP=3
	245	SGMR	8 S	1711.0	1711.0	1.0	95.0				QL=4 ST=3 TYP=3
	2800	PENT	1 S	1755.0	1801.0	11.0	6.0				
	245	PALE	8 S	1850.0	1850.0	1.0	130.0				QL=4 ST=4 TYP=3
245	PALE	8 S	1850.0	1850.0	1.0	130.0				QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	1911.0	1922.0	21.0U	28.0					
6700	CUBA	21 GRF	1919.0	1927.0	151.0D	18.0	9.0			9R DOWN	
9500	CUBA	21 GRF	1920.0	1930.0	24.0	11.0	5.0				
6700	CUBA	1 S	1920.4	1922.5	3.1	21.0	10.0			29R	
245	PALE	8 S	1921.0	1922.0	1.0	67.0				QL=4 ST=2 TYP=3	
410	PALE	8 S	1921.0	1922.0	1.0	38.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	1921.0	1921.0	1.0	59.0				QL=4 ST=2 TYP=3	
9500	CUBA	1 S	1921.4	1922.4	1.7	12.0	6.0				
4995	PALE	8 S	1922.0	1922.0		U	24.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1922.0	1922.0		U	35.0			QL=4 ST=2 TYP=3	
4995	SGMR	8 S	1922.0	1922.0		U	35.0			QL=4 ST=2 TYP=3	
2804	VORO	22 GRF	2247.0	2405.0	203.0	10.2					
2840	PEKG	5 S	2309.0	2312.0	8.0	13.7					
2804	VORO	3 S	2310.6	2312.5	4.4	10.2					
09	410	SVTO	43 NS	0441.0	0606.0	122.0	73.0			QL=4 ST=2 TYP=1	
	410	SVTO	43 NS	0441.0	0451.0	1159.0	65.0			QL=4 ST=1 TYP=1	
	410	SVTO	43 NS	0441.0	0606.0	1159.0	73.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0446.0	0655.0	228.0	170.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0446.0	0505.0	1154.0	73.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0446.0	0559.0	1154.0	94.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0446.0	0655.0	1154.0	170.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	0457.0	0655.0	248.0	140.0			QL=4 ST=2 TYP=1	

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

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Jun 01

JUNE 2001

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	43 NS	0457.0	0533.0	1143.0	110.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	0457.0	0655.0	1143.0	140.0			QL=4 ST=1 TYP=1	
	204	IZMI	44 NS	0500.0E		420.0D		56.0			
	245	LEAR	43 NS	0557.0	0457.0	1083.0	85.0			QL=4 ST=1 TYP=1	
	127	TORN	44 NS	0630.0E		510.0D		80.0		V=1	
	245	SVTO	43 NS	0948.0	1025.0	192.0	160.0				QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0948.0	0952.0	852.0	130.0				QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0948.0	1025.0	852.0	160.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	0952.0	1613.0	799.0	230.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	0952.0	1613.0	848.0	230.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	0952.0	0952.0	848.0	90.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	0952.0	1015.0	848.0	140.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	0952.0	1213.0	848.0	190.0				QL=4 ST=1 TYP=1
	410	SVTO	43 NS	0954.0	1020.0	143.0	100.0				QL=4 ST=2 TYP=1
	410	SVTO	43 NS	0954.0	1020.0	846.0	100.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1827.0	2032.0	315.0	160.0				QL=4 ST=2 TYP=1
	245	PALE	43 NS	1827.0	1827.0	333.0	52.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1827.0	1932.0	333.0	140.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1827.0	2032.0	333.0	160.0				QL=4 ST=1 TYP=1
	245	LEAR	8 S	0020.0	0020.0	1.0	90.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0020.0	0020.0	1.0	85.0				QL=4 ST=2 TYP=3
	245	PALE	49 GB	0024.0	0025.0	2.0	600.0				QL=4 ST=2 TYP=6
	245	LEAR	8 S	0047.0	0047.0	U	97.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0047.0	0047.0	U	140.0				QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0047.0	0047.0	1393.0	140.0				QL=4 ST=1 TYP=3
	245	PALE	8 S	0107.0	0108.0	1.0	69.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0108.0	0108.0	U	64.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0118.0	0119.0	1.0	100.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0118.0	0119.0	2.0	110.0				QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0146.0	0148.0	4.0	110.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0147.0	0147.0	1.0	96.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0149.0	0149.0	1.0	85.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0159.0	0159.0	U	98.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0159.0	0159.0	U	110.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0222.0	0223.0	1.0	62.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0222.0	0223.0	1.0	66.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0229.0	0229.0	1.0	71.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0321.0	0321.0	1.0	91.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0457.0	0457.0	U	85.0				QL=4 ST=4 TYP=3
	245	LEAR	8 S	0457.0	0457.0	U	85.0				QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0530.0	0533.5	6.0	5.3				
	3000	IZMI	7 C	0531.3	0533.4	5.2	17.0		7.0		
	2950	GORK	2 S/F	0532.4	0533.0	2.4	7.5				
	9100	GORK	2 S/F	0532.4	0533.7	3.0	18.0				
	204	IZMI	42 SER	0532.5	0532.9	0.8	74.0				
200	HIRA	8 S	0533.0	0533.0	1.0	30.0				0	
410	SGMR	8 S	1020.0	1020.0	U	54.0				QL=4 ST=2 TYP=3	
245	SVTO	8 S	1020.0	1020.0	U	180.0				QL=2 ST=2 TYP=3	
410	SVTO	8 S	1020.0	1020.0	U	100.0				QL=2 ST=2 TYP=3	
204	IZMI	46 C	1020.2	1020.4	1.3	224.0					
245	SVTO	8 S	1531.0	1531.0	U	160.0				QL=2 ST=2 TYP=3	
245	SVTO	8 S	1613.0	1613.0	U	220.0				QL=2 ST=2 TYP=3	
245	PALE	8 S	1636.0	1636.0	U	150.0				QL=4 ST=2 TYP=3	
245	SVTO	8 S	1636.0	1636.0	U	120.0				QL=2 ST=2 TYP=3	
245	PALE	8 S	1740.0	1741.0	1.0	61.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	1751.0	1751.0	U	65.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	1838.0	1840.0	2.0	45.0				QL=4 ST=2 TYP=3	
610	PALE	49 GB	1838.0	1841.0	34.0	520.0				QL=4 ST=2 TYP=6	
610	SGMR	4 S/F	1838.0	1841.0	34.0	440.0				QL=4 ST=2 TYP=3	
410	PALE	8 S	1841.0	1841.0	U	69.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1841.0	1841.0	U	61.0				QL=4 ST=2 TYP=3	
2800	PENT	1 S	2143.0	2148.0	11.0	13.0					
10	245	LEAR	43 NS	0030.0	0225.0	379.0	230.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	0030.0	0046.0	1410.0	130.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	0030.0	0119.0	1410.0	180.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	0030.0	0225.0	1410.0	230.0			QL=4 ST=1 TYP=1	
	245	PALE	43 NS	0222.0	0225.0	136.0	280.0			QL=4 ST=2 TYP=1	
	245	PALE	43 NS	0222.0	0225.0	1298.0	280.0			QL=4 ST=1 TYP=1	

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

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	245	SVTO	43 NS	0441.0	0622.0	152.0	100.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0441.0	0442.0	1159.0	65.0			QL=4 ST=1 TYP=1
	204	IZMI	44 NS	0528.0E		388.0D		20.0		
	127	TORN	44 NS	0630.0E		510.0D		100.0		V=1
	245	SGMR	43 NS	1023.0	1154.0	150.0	130.0			QL=2 ST=2 TYP=1
	245	SGMR	43 NS	1023.0	1035.0	817.0	59.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1023.0	1059.0	817.0	120.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1033.0	1154.0	140.0	160.0			QL=4 ST=3 TYP=1
	245	SVTO	43 NS	1033.0	1154.0	200.0	160.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1033.0	1035.0	807.0	66.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1033.0	1140.0	807.0	150.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1546.0	1546.0	7.0	70.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1546.0	1546.0	494.0	70.0			QL=4 ST=1 TYP=1
	2840	PEKG	45 C	0057.0	0101.9	10.0	20.8			
	8800	LEAR	4 S/F	0101.0	0102.0	12.0	54.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0101.0	0102.0	1379.0	54.0			QL=4 ST=1 TYP=3
	2804	VORO	40 F	0101.1	0103.0	5.0	10.4			
	4995	LEAR	4 S/F	0102.0	0102.0	11.0	26.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0102.0	0102.0	1378.0	26.0			QL=4 ST=1 TYP=3
	410	LEAR	8 S	0638.0	0638.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0638.0	0638.0	U	200.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0644.1	0644.3	3.1	150.0			
	200	HIRA	8 S	0645.0	0645.0	1.0	50.0			WL
	410	LEAR	8 S	0656.0	0656.0	U	160.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0656.0	0656.0	U	190.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0852.0	0852.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0852.0	0852.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0942.0	0942.0	U	50.0			QL=4 ST=3 TYP=3
	610	SVTO	4 S/F	1150.0	1154.0	6.0	100.0			QL=2 ST=2 TYP=3
	410	SVTO	48 C	1151.0	1154.0	4.0	93.0			QL=2 ST=2 TYP=8
	245	SGMR	8 S	1153.0	1154.0	1.0	250.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1153.0	1154.0	1.0	42.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1153.0	1154.0	1.0	24.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1153.0	1154.0	2.0	23.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	1153.3	1154.4	2.7	645.0			
	3000	IZMI	20 GRF	1153.4	1154.3	1.6	32.0	13.0		
	245	SVTO	8 S	1154.0	1154.0	U	270.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	1154.0	1156.0	2.0	37.0			QL=2 ST=2 TYP=3
	4995	SVTO	8 S	1154.0	1154.0	U	30.0			QL=2 ST=2 TYP=3
	127	TORN	47 GB	1154.0U	1154.8	1.2U	5800.0U	580.0U		
245	SVTO	8 S	1546.0	1547.0	1.0	63.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1630.0	1631.0	1.0	110.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1631.0	1631.0	U	150.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1631.0	1631.0	U	120.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1631.0	1631.0	449.0	120.0			QL=4 ST=1 TYP=3	
245	SGMR	8 S	1807.0	1809.0	2.0	200.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1809.0	1809.0	U	240.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	1946.0	1946.0	U	79.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1946.0	1946.0	U	89.0			QL=4 ST=2 TYP=3	
11	204	IZMI	44 NS	0500.0E		420.0D		10.0		
	127	TORN	44 NS	0700.0E		480.0D		40.0		V=1
	280	CUBA	44 NS	1300.0E		240.0D		17.0		
	235	CUBA	44 NS	1300.0E		240.0D		6.0		
	245	SGMR	43 NS	1625.0	1633.0	215.0	95.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1625.0	1633.0	455.0	95.0			QL=4 ST=1 TYP=1
	245	LEAR	8 S	0002.0	0002.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0002.0	0002.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0027.0	0027.0	U	140.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0027.0	0027.0	U	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0105.0	0105.0	U	150.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0105.0	0105.0	2.0	160.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0428.0	0429.0	3.0	54.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0428.0	0430.0	2.0	55.0			QL=4 ST=2 TYP=3
900	GORK	4 S/F	0520.3	0520.6	0.7	40.0				
9100	GORK	1 S	0520.3	0520.8	1.1	14.0				
600	GORK	46 C	0533.1	0534.8	4.6	92.0				
900	GORK	41 F	0533.3	0533.9	5.3	32.0				
204	IZMI	42 SER	0540.7	0540.9	4.1	58.0				

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

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Jun 01

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
11	9100	GORK	1 S	1035.4	1035.8	1.2	7.4			
	2950	GORK	1 S	1035.5	1036.0	0.9	3.9			
	410	SGMR	8 S	1154.0	1154.0	U	57.0			QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	1520.0	1555.0	46.0	11.0			
	245	SGMR	8 S	1638.0	1638.0	U	67.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1638.0	1642.0	4.0	69.0			QL=4 ST=3 TYP=8
	245	SVTO	48 C	1638.0	1642.0	4.0	69.0			QL=4 ST=2 TYP=8
12	127	TORN	43 NS	0739.0		441.0D		40.0		V=1
	280	CUBA	44 NS	1333.0E		497.0D		16.0		
	235	CUBA	44 NS	1333.0E		497.0D		6.0		
	2800	PENT	1 S	0029.0	0035.0	13.0	6.0			
	245	LEAR	8 S	0133.0	0134.0	1.0	34.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0133.0	0134.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0133.0	0134.0	8.0	39.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0133.0	0134.0	8.0	200.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0134.0	0134.0	1.0	80.0			0
	204	IZMI	7 C	0631.6	0631.8	0.4	34.0			
	2840	PEKG	3 S	0706.0	0714.0	25.0	74.1			
	900	GORK	3 S	0712.5	0715.0	5.5	20.0			
	2950	GORK	2 S/F	0712.5	0714.2	9.5	58.0			
	3000	IZMI	22 GRF	0712.8	0714.4	3.6	75.0	33.0		
	204	IZMI	45 C	0712.9	0714.6	7.0	95.0			
	2800	HIRA	4 S/F	0713.0	0714.0	4.0	70.0			0
	500	HIRA	4 S/F	0713.0	0714.0	5.0	30.0			0
	200	HIRA	7 C	0713.0	0719.0	7.0	140.0			0
	245	LEAR	49 GB	0713.0	0714.0	2.0	910.0			QL=4 ST=2 TYP=6
	1415	LEAR	8 S	0713.0	0714.0	2.0	29.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0713.0	0714.0	2.0	62.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0713.0	0714.0	2.0	36.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0713.0	0714.0	2.0	31.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0713.0	0714.0	2.0	63.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0713.0	0714.0	3.0	47.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0713.0	0714.0	2.0	27.0			QL=4 ST=2 TYP=3
	9100	GORK	21 GRF	0713.0	0716.0	16.2	9.4			
	245	LEAR	49 GB	0713.0	0714.0	1007.0	910.0			QL=4 ST=1 TYP=6
	1415	LEAR	4 S/F	0713.0	0714.0	1007.0	29.0			QL=4 ST=1 TYP=3
	2695	LEAR	4 S/F	0713.0	0714.0	1007.0	62.0			QL=4 ST=1 TYP=3
4995	LEAR	4 S/F	0713.0	0714.0	1007.0	36.0			QL=4 ST=1 TYP=3	
9100	GORK	1 S	0713.2	0715.8	2.7	15.0				
410	LEAR	8 S	0714.0	0714.0	1.0	70.0			QL=4 ST=2 TYP=3	
410	LEAR	4 S/F	0714.0	0714.0	1006.0	70.0			QL=4 ST=1 TYP=3	
245	LEAR	8 S	0718.0	0718.0	U	95.0			QL=4 ST=2 TYP=3	
127	TORN	4 S/F	0720.0	0721.5	4.7	2600.0	400.0			
204	IZMI	42 SER	0935.0	0948.6	48.0U	95.0				
8800	SGMR	49 GB	1424.0	1424.0	3.0	6000.0			QL=4 ST=4 TYP=6	
8800	SGMR	49 GB	1424.0	1424.0	3.0	6000.0			QL=4 ST=2 TYP=6	
245	SGMR	8 S	1712.0	1712.0	1.0	160.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2318.0	2318.0	1.0	15.0			0	
13	127	TORN	44 NS	0630.0E		430.0D		50.0		V=1
	280	CUBA	44 NS	1315.0E		515.0D		16.0		
	235	CUBA	44 NS	1315.0E		515.0D		7.0		
	2840	PEKG	3 S	0423.0	0431.9	26.0	119.1			
	15400	SVTO	4 S/F	0424.0	0431.0	21.0	100.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0424.3	0431.8	22.0	160.0			
	9100	GORK	46 C	0424.3	0432.9		100.0			
	2804	VORO	46 C	0424.4	0431.8	20.6	157.0			
	2800	HIRA	4 S/F	0425.0	0432.0	18.0	75.0			0
	4995	LEAR	4 S/F	0425.0	0431.0	15.0	190.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0425.0	0431.0	14.0	180.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0425.0	0431.0	14.0	160.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0425.0	0431.0	11.0	150.0			QL=4 ST=2 TYP=3
	2950	GORK	46 C	0425.2	0433.0		62.0			
	2950	GORK	46 C	0425.2	0431.8	21.3	83.0			
	600	GORK	46 C	0425.4	0431.4		105.0			
600	GORK	46 C	0425.4	0429.9	11.1	120.0				
200	HIRA	8 S	0426.0	0428.0	2.0	10.0			0	
500	HIRA	4 S/F	0426.0	0428.0	17.0	30.0			0	

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

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
13	4995	PALE	4 S/F	0426.0	0431.0	10.0	200.0			QL=2 ST=2 TYP=3	
	2695	SVTO	4 S/F	0427.0	0431.0	9.0	80.0			QL=4 ST=2 TYP=3	
	2695	LEAR	4 S/F	0427.0	0431.0	10.0	85.0			QL=4 ST=2 TYP=3	
	15400	LEAR	4 S/F	0427.0	0431.0	12.0	94.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0428.0	0428.0		110.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	0428.0	0428.0		96.0			QL=2 ST=2 TYP=3	
	200	HIRA	4 S/F	0428.0	0434.0	15.0	5.0			0	
	900	GORK	46 C	0428.2	0429.6	6.1	38.0				
	900	GORK	46 C	0428.2	0430.7		21.0				
	610	LEAR	8 S	0429.0	0429.0	2.0	67.0				QL=4 ST=2 TYP=3
	610	PALE	8 S	0429.0	0430.0	1.0	70.0				QL=2 ST=2 TYP=3
	1415	PALE	8 S	0431.0	0431.0	1.0	26.0				QL=2 ST=2 TYP=3
	8800	PALE	8 S	0431.0	0431.0	2.0	140.0				QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0432.0	0433.0	2.0	18.0				QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0548.1	0554.8	6.9	150.0				
	2840	PEKG	5 S	0740.0	0744.8	8.0	13.4				
	2840	PEKG	3 S	0823.0	0827.5	14.0	26.6				
	900	GORK	46 C	0824.8	0825.0	9.9	25.0				
	900	GORK	46 C	0824.8	0826.7		20.0				
	900	GORK	46 C	0824.8	0827.7		26.0				
	600	GORK	46 C	0825.0	0827.0	7.6	19.0				
	2800	HIRA	1 S	0825.0	0828.0	7.0	20.0				0
	500	HIRA	1 S	0825.0	0828.0	7.0	10.0				0
	245	LEAR	4 S/F	0825.0	0826.0	4.0	200.0				QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0825.0	0826.0	3.0	150.0				QL=4 ST=2 TYP=3
	200	HIRA	7 C	0825.0	0827.0	12.0	180.0				0
	600	GORK	46 C	0825.0	0828.8		29.0				
	3000	IZMI	22 GRF	0825.2	0827.5	5.8	36.0	14.0			
	204	IZMI	46 C	0825.4	0827.1	11.5	350.0				
	2950	GORK	4 S/F	0825.4	0827.5	4.8	21.0				
	9100	GORK	2 S/F	0826.6	0829.4	4.4	14.0				
	2695	LEAR	8 S	0827.0	0827.0		22.0				QL=4 ST=2 TYP=3
	9100	GORK	1 S	0844.4	0844.6	0.4	12.0				
	204	IZMI	42 SER	0939.3	0939.5	0.5	30.0				
	204	IZMI	41 F	0944.3	0944.5	0.4	56.0				
	204	IZMI	41 F	1030.9	1031.1	0.3	148.0				
	204	IZMI	41 F	1041.1	1041.7	1.5	47.0				
	245	SGMR	8 S	1042.0	1042.0	1.0	140.0				QL=4 ST=4 TYP=3
	245	SGMR	8 S	1042.0	1042.0	1.0	140.0				QL=4 ST=3 TYP=3
	245	SGMR	8 S	1042.0	1042.0	1.0	140.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1042.0	1042.0		280.0				QL=4 ST=4 TYP=3
	410	SGMR	8 S	1042.0	1042.0		280.0				QL=4 ST=3 TYP=3
	410	SGMR	8 S	1042.0	1042.0		280.0				QL=4 ST=2 TYP=3
	600	GORK	4 S/F	1042.3	1043.2	2.3	18.0				
	204	IZMI	46 C	1042.4	1042.5	3.4	1756.0				
	900	GORK	3 S	1042.5	1043.3	4.6	15.0				
	33	UPIC	42 SER	1042.5	1255.5	133.5					
	2950	GORK	1 S	1042.9	1043.4	0.5	4.9				
	204	IZMI	7 C	1123.8	1123.9	0.2	152.0				
	3000	IZMI	46 C	1133.9	1138.8	18.0	122.0	32.0			
1415	SVTO	4 S/F	1134.0	1137.0	8.0	110.0				QL=4 ST=2 TYP=3	
2695	SVTO	4 S/F	1134.0	1137.0	8.0	120.0				QL=4 ST=2 TYP=3	
4995	SVTO	4 S/F	1134.0	1139.0	8.0	230.0				QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	1134.0	1139.0	8.0	430.0				QL=4 ST=2 TYP=3	
610	SVTO	4 S/F	1134.0	1142.0	10.0	270.0				QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	1135.0	1140.0	7.0	490.0				QL=4 ST=2 TYP=3	
15400	SVTO	49 GB	1135.0	1139.0	7.0	600.0				QL=4 ST=2 TYP=6	
1415	SGMR	4 S/F	1135.0	1137.0	13.0	120.0				QL=4 ST=2 TYP=3	
2695	SGMR	48 C	1135.0	1137.0	15.0	110.0				QL=4 ST=2 TYP=8	
610	SGMR	48 C	1135.0	1142.0	21.0	400.0				QL=4 ST=2 TYP=8	
4995	SGMR	4 S/F	1135.0	1139.0	21.0	260.0				QL=4 ST=2 TYP=3	
8800	SGMR	49 GB	1135.0	1139.0	21.0	500.0				QL=4 ST=2 TYP=6	
15400	SGMR	49 GB	1135.0	1139.0	21.0	640.0				QL=4 ST=2 TYP=6	
610	SGMR	48 C	1135.0	1142.0	745.0	400.0				QL=4 ST=1 TYP=8	
1415	SGMR	4 S/F	1135.0	1137.0	745.0	120.0				QL=4 ST=1 TYP=3	
2695	SGMR	48 C	1135.0	1139.0	745.0	99.0				QL=4 ST=1 TYP=8	
4995	SGMR	4 S/F	1135.0	1139.0	745.0	260.0				QL=4 ST=1 TYP=3	
15400	SGMR	49 GB	1135.0	1139.0	745.0	640.0				QL=4 ST=1 TYP=6	
410	SVTO	49 GB	1136.0	1137.0	6.0	1100.0				QL=4 ST=2 TYP=6	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak	Mean			
							(10 -22 W/m 2 Hz)				
13	410	SGMR	48 C	1136.0	1137.0	20.0	530.0			QL=4 ST=2 TYP=8	
	410	SGMR	20 GRF	1136.0	1142.0	744.0	170.0			QL=4 ST=1 TYP=2	
	204	IZMI	46 C	1136.9	1141.6	18.4	1755.0				
	245	SGMR	48 C	1137.0	1140.0	19.0	540.0			QL=4 ST=2 TYP=8	
	245	SGMR	48 C	1137.0	1140.0	743.0	540.0			QL=4 ST=1 TYP=8	
	127	TORN	27 RF	1138.0U		50.0U			3200.0		DISTURBED
	33	UPIC	31 ABS	1138.0	1144.0U	60.0					
	245	SVTO	4 S/F	1155.0	1156.0	8.0	410.0				QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1155.0	1201.0	8.0	750.0				QL=4 ST=2 TYP=6
	610	SVTO	4 S/F	1155.0	1202.0	8.0	260.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1155.0	1156.0	8.0	200.0				QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1155.0	1156.0	8.0	310.0				QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1155.0	1156.0	8.0	230.0				QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1155.0	1205.0	10.0	69.0				QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1155.0	1204.0	10.0	110.0				QL=4 ST=2 TYP=3
	204	IZMI	46 C	1155.3	1156.7	19.2	389.0				
	3000	IZMI	46 C	1155.4	1204.8	16.2	103.0		41.0		
	610	SGMR	48 C	1156.0	1205.0	18.0	420.0				QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1156.0	1205.0	16.0	83.0				QL=4 ST=2 TYP=8
	245	SGMR	20 GRF	1156.0	1156.0	20.0	470.0				QL=4 ST=2 TYP=2
	410	SGMR	48 C	1156.0	1209.0	20.0	980.0				QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1156.0	1204.0	20.0	100.0				QL=4 ST=2 TYP=8
	4995	SGMR	20 GRF	1156.0	1156.0	20.0	230.0				QL=4 ST=2 TYP=2
	8800	SGMR	20 GRF	1156.0	1156.0	20.0	380.0				QL=4 ST=2 TYP=2
	15400	SGMR	20 GRF	1156.0	1156.0	20.0	280.0				QL=4 ST=2 TYP=2
	245	SGMR	4 S/F	1156.0	1156.0	724.0	470.0				QL=4 ST=1 TYP=3
	410	SGMR	48 C	1156.0	1201.0	724.0	860.0				QL=4 ST=1 TYP=8
	410	SGMR	48 C	1156.0	1209.0	724.0	980.0				QL=4 ST=1 TYP=8
	610	SGMR	4 S/F	1156.0	1156.0	724.0	210.0				QL=4 ST=1 TYP=3
	610	SGMR	20 GRF	1156.0	1209.0	724.0	220.0				QL=4 ST=1 TYP=2
	1415	SGMR	4 S/F	1156.0	1156.0	724.0	67.0				QL=4 ST=1 TYP=3
	1415	SGMR	48 C	1156.0	1205.0	724.0	83.0				QL=4 ST=1 TYP=8
	2695	SGMR	4 S/F	1156.0	1156.0	724.0	89.0				QL=4 ST=1 TYP=3
	2695	SGMR	48 C	1156.0	1204.0	724.0	100.0				QL=4 ST=1 TYP=8
	4995	SGMR	4 S/F	1156.0	1156.0	724.0	230.0				QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	1156.0	1156.0	724.0	380.0				QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1156.0	1156.0	724.0	280.0				QL=4 ST=1 TYP=3
	2800	PENT	24 R	1351.0	1626.0	155.0U	48.0				
	245	SGMR	8 S	1538.0	1538.0	U	160.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1538.0	1538.0	U	130.0				QL=4 ST=2 TYP=3
	6700	CUBA	21 GRF	1622.0	1633.0	47.0	7.0		3.0		11R
	1415	SGMR	4 S/F	1623.0	1624.0	5.0	42.0				QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1623.0	1624.0	2.0	32.0				QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1623.0	1624.0	457.0	42.0				QL=4 ST=1 TYP=3
	6700	CUBA	2 S/F	1623.5	1626.5	5.9	15.0		7.0		16R
	245	SGMR	4 S/F	1624.0	1625.0	4.0	22.0				QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1624.0	1626.0	4.0	150.0				QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1624.0	1624.0	4.0	28.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1624.0	1627.0	8.0	51.0				QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1624.0	1627.0	4.0	67.0				QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1624.0	1625.0	456.0	22.0				QL=4 ST=1 TYP=3
	410	SGMR	4 S/F	1624.0	1626.0	456.0	150.0				QL=4 ST=1 TYP=3
	610	SGMR	4 S/F	1624.0	1624.0	456.0	28.0				QL=4 ST=1 TYP=3
	9500	CUBA	2 S/F	1624.0	1624.5	2.8	8.0		4.0		
	4995	SGMR	4 S/F	1626.0	1626.0	6.0	31.0				QL=4 ST=2 TYP=3
4995	SVTO	8 S	1626.0	1626.0	U	27.0				QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	1626.0	1626.0	454.0	31.0				QL=4 ST=1 TYP=3	
6700	CUBA	21 GRF	1842.0	1925.0	228.0D	15.0		7.0		00L SUNSET	
6700	CUBA	2 S/F	1843.0E	1844.0	3.0D	19.0		9.0		6L	
200	HIRA	8 S	1954.0	1954.0	1.0	65.0				0	
8800	SGMR	8 S	1955.0	1955.0	U	41.0				QL=4 ST=2 TYP=3	
9500	CUBA	1 S	1955.0	1955.4	1.8	32.0		16.0			
6700	CUBA	1 S	1955.0	1955.4	1.4	31.0		15.0		6R	
14	204	IZMI	43 NS	0500.0		420.0D		20.0			
	127	TORN	44 NS	0630.0E		510.0D		120.0		V=1	
	245	SGMR	43 NS	0955.0	0957.0	9.0	110.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0955.0	0957.0	10.0	110.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	0955.0	0957.0	845.0	110.0			QL=4 ST=1 TYP=1	

S O L A R R A D I O E M I S S I O N
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JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
14	245	SVTO	43 NS	0955.0	0957.0	845.0	110.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	1055.0	0957.0	785.0	110.0			QL=4 ST=1 TYP=1	
	280	CUBA	44 NS	1300.0E		530.0D		25.0			
	235	CUBA	44 NS	1300.0E		530.0D		12.0			
	200	HIRA	8 S		0628.0		1.0	10.0			0
	204	IZMI	41 F		0629.2	0629.4	0.3	30.0			
	245	LEAR	8 S		0631.0	0631.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S		0631.0	0631.0	1.0	98.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C		0631.6	0631.7	0.1	72.0	3.0		
	200	HIRA	8 S		0717.0	0718.0	1.0	25.0			0
	204	IZMI	42 SER		0717.2	0717.4	1.0	103.0			
	245	SVTO	8 S		0729.0	0730.0	1.0	58.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F		0820.0	0821.0	3.0	58.0			QL=4 ST=2 TYP=3
	600	GORK	2 S/F		0909.5	0911.6	2.9	18.0			
	2950	GORK	21 GRF		0911.6	0955.2	49.1D	10.0			
	2840	PEKG	45 C		0930.0	0938.2	14.0	33.2			
	9100	GORK	21 GRF		0933.3	0955.0	26.2	15.0			
	900	GORK	4 S/F		0933.6	0938.4	4.8	15.0			
	610	SVTO	4 S/F		0935.0	0936.0	3.0	46.0			QL=2 ST=2 TYP=3
	9100	GORK	45 C		0936.0	0938.0		36.0			
	410	SVTO	4 S/F		0936.0	0936.0	3.0	38.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F		0936.0	0938.0	3.0	59.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F		0936.0	0938.0	3.0	43.0			QL=4 ST=2 TYP=3
	9100	GORK	45 C		0936.0	0936.8	3.8	26.0			
	2950	GORK	4 S/F		0936.0	0936.9	3.7	10.0			
	3000	IZMI	7 C		0936.2	0938.1	3.4	21.0	12.0		
	600	GORK	46 C		0936.5	0938.3		6.0			
	600	GORK	46 C		0936.5	0936.9	2.1	19.0			
	245	SVTO	8 S		0944.0	0944.0	1.0	120.0			QL=4 ST=2 TYP=3
	204	IZMI	25 R		0946.1		28.9		30.0		
	3000	IZMI	20 GRF		0950.2	1011.6	129.8D	16.0	6.0		
	245	SGMR	8 S		1231.0	1231.0	U	94.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S		1231.0	1231.0	U	76.0			QL=4 ST=2 TYP=3
	9500	CUBA	20 GRF		1258.0E	1258.0	105.0D	22.0	11.0		
	6700	CUBA	20 GRF		1341.0E	1341.0	52.0D	17.0	8.0		00L
	245	SGMR	8 S		1529.0	1529.0	U	56.0			QL=4 ST=2 TYP=3
2800	PENT	1 S		1700.0	1702.0	4.0	12.0				
2695	SGMR	8 S		1700.0	1700.0	U	34.0			QL=4 ST=3 TYP=3	
2695	SGMR	46 C		1700.0	1700.0	U	34.0			QL=4 ST=2 TYP=8	
1415	SGMR	8 S		1701.0	1702.0	1.0	69.0			QL=4 ST=2 TYP=3	
1415	SVTO	8 S		1701.0	1702.0	1.0	65.0			QL=4 ST=2 TYP=3	
2695	SVTO	8 S		1701.0	1702.0	1.0	35.0			QL=4 ST=2 TYP=3	
1415	PALE	8 S		1702.0	1702.0	U	64.0			QL=4 ST=2 TYP=3	
4995	PALE	8 S		1702.0	1702.0	1.0	36.0			QL=4 ST=2 TYP=3	
4995	SVTO	8 S		1702.0	1702.0	U	25.0			QL=4 ST=2 TYP=3	
2800	PENT	1 S		1738.0	1739.0	3.0	5.0				
15	204	IZMI	44 NS	0500.0E		420.0D		28.0			
	127	TORN	44 NS	0630.0E		510.0D		400.0		V=2	
	245	SGMR	43 NS	1039.0	1046.0	43.0	180.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1039.0	1044.0	801.0	150.0			QL=4 ST=1 TYP=1	
	280	CUBA	44 NS	1330.0E		500.0D		24.0			
	235	CUBA	44 NS	1330.0E		500.0D		14.0			
	245	LEAR	8 S		0153.0	0153.0	U	42.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S		0337.0	0338.0	1.0	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S		0436.0	0437.0	1.0	68.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER		0452.8	0453.3	2.1	66.0			
	245	LEAR	8 S		0506.0	0506.0	U	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S		0506.0	0506.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S		0533.0	0534.0	1.0	59.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S		0534.0	0534.0	U	79.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F		0534.0	0534.0	1106.0	79.0			QL=4 ST=1 TYP=3
	245	LEAR	8 S		0557.0	0557.0	U	63.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S		0705.0	0707.2	5.0	10.8			
	245	SVTO	8 S		0948.0	0948.0	U	210.0			QL=4 ST=2 TYP=3
245	SVTO	8 S		0955.0	0955.0	1.0	110.0			QL=4 ST=2 TYP=3	
2840	PEKG	3 S		0956.0	1049.1	76.0	308.8				
4995	SVTO	48 C		1004.0	1007.0	33.0	170.0			QL=4 ST=2 TYP=8	
127	TORN	27 RF		1004.0	1026.0	73.0	5700.0	5300.0			

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

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Jun 01

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
15	4995	SVTO	4 S/F	1004.0	1007.0	836.0	170.0			QL=4 ST=1 TYP=3	
	4995	SVTO	48 C	1004.0	1007.0	836.0	170.0			QL=4 ST=1 TYP=8	
	4995	SVTO	4 S/F	1004.0	1007.0	836.0	170.0			QL=4 ST=1 TYP=3	
	4995	SVTO	48 C	1004.0	1007.0	836.0	170.0			QL=4 ST=1 TYP=8	
	3000	IZMI	46 C	1004.2	1013.1	35.6	118.0	29.0			
	2695	SGMR	48 C	1005.0	1011.0	18.0	130.0				QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1005.0	1007.0	10.0	160.0				QL=4 ST=2 TYP=8
	1415	SVTO	48 C	1005.0	1007.0	31.0	130.0				QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1005.0	1011.0	31.0	130.0				QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1005.0	1007.0	37.0	150.0				QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1005.0	1011.0	835.0	130.0				QL=4 ST=1 TYP=8
	2695	SGMR	4 S/F	1005.0	1007.0	835.0	88.0				QL=4 ST=1 TYP=3
	2695	SGMR	48 C	1005.0	1011.0	835.0	130.0				QL=4 ST=1 TYP=8
	4995	SGMR	48 C	1005.0	1011.0	835.0	85.0				QL=4 ST=1 TYP=8
	4995	SGMR	4 S/F	1005.0	1007.0	835.0	160.0				QL=4 ST=1 TYP=3
	4995	SGMR	48 C	1005.0	1011.0	835.0	85.0				QL=4 ST=1 TYP=8
	1415	SVTO	48 C	1005.0	1007.0	835.0	130.0				QL=4 ST=1 TYP=8
	1415	SVTO	4 S/F	1005.0	1007.0	835.0	130.0				QL=4 ST=1 TYP=3
	1415	SVTO	48 C	1005.0	1007.0	835.0	130.0				QL=4 ST=1 TYP=8
	2695	SVTO	48 C	1005.0	1011.0	835.0	130.0				QL=4 ST=1 TYP=8
	2695	SVTO	4 S/F	1005.0	1007.0	835.0	88.0				QL=4 ST=1 TYP=3
	2695	SVTO	48 C	1005.0	1011.0	835.0	130.0				QL=4 ST=1 TYP=8
	8800	SVTO	4 S/F	1005.0	1007.0	835.0	150.0				QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	1006.0	1007.0	8.0	150.0				QL=4 ST=2 TYP=3
	1415	SGMR	48 C	1006.0	1012.0	17.0	210.0				QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1006.0	1007.0	29.0	76.0				QL=4 ST=2 TYP=8
	410	SVTO	48 C	1006.0	1035.0	30.0	110.0				QL=4 ST=2 TYP=8
	33	UPIC	42 SER	1006.0	1008.0	51.0					
	245	SVTO	48 C	1006.0	1048.0	76.0	5800.0				QL=4 ST=2 TYP=8
	1415	SGMR	4 S/F	1006.0	1007.0	834.0	140.0				QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	1006.0	1007.0	834.0	150.0				QL=4 ST=1 TYP=3
	245	SVTO	48 C	1006.0	1048.0	834.0	5800.0				QL=4 ST=1 TYP=8
	245	SVTO	49 GB	1006.0	1007.0	834.0	1900.0				QL=4 ST=1 TYP=6
	245	SVTO	48 C	1006.0	1048.0	834.0	5800.0				QL=4 ST=1 TYP=8
	245	SVTO	48 C	1006.0	1013.0	834.0	4500.0				QL=4 ST=1 TYP=8
	410	SVTO	49 GB	1006.0	1012.0	834.0	1900.0				QL=4 ST=1 TYP=6
	410	SVTO	48 C	1006.0	1035.0	834.0	110.0				QL=4 ST=1 TYP=8
	410	SVTO	49 GB	1006.0	1012.0	834.0	1900.0				QL=4 ST=1 TYP=6
	410	SVTO	48 C	1006.0	1035.0	834.0	110.0				QL=4 ST=1 TYP=8
	15400	SVTO	48 C	1006.0	1007.0	834.0	76.0				QL=4 ST=1 TYP=8
	15400	SVTO	4 S/F	1006.0	1007.0	834.0	76.0				QL=4 ST=1 TYP=3
	15400	SVTO	48 C	1006.0	1007.0	834.0	76.0				QL=4 ST=1 TYP=8
	15400	SVTO	4 S/F	1006.0	1007.0	834.0	76.0				QL=4 ST=1 TYP=3
	245	SGMR	48 C	1007.0	1013.0	22.0	3400.0				QL=4 ST=2 TYP=8
	410	SGMR	49 GB	1007.0	1012.0	22.0	1900.0				QL=4 ST=2 TYP=6
	610	SVTO	48 C	1007.0	1009.0	28.0	1300.0				QL=2 ST=2 TYP=8
	245	SGMR	48 C	1007.0	1013.0	833.0	3400.0				QL=4 ST=1 TYP=8
	245	SGMR	49 GB	1007.0	1007.0	833.0	1200.0				QL=4 ST=1 TYP=6
	410	SGMR	49 GB	1007.0	1012.0	833.0	1900.0				QL=4 ST=1 TYP=6
	610	SVTO	49 GB	1007.0	1009.0	833.0	1300.0				QL=4 ST=1 TYP=6
610	SVTO	48 C	1007.0	1009.0	833.0	1300.0				QL=2 ST=1 TYP=8	
610	SVTO	49 GB	1007.0	1009.0	833.0	1300.0				QL=4 ST=1 TYP=6	
610	SVTO	48 C	1007.0	1009.0	833.0	1300.0				QL=2 ST=1 TYP=8	
204	IZMI	46 C	1007.2	1008.2	34.2	20464.0					
610	SGMR	49 GB	1008.0	1010.0	21.0	1500.0				QL=4 ST=2 TYP=6	
610	SGMR	49 GB	1008.0	1010.0	832.0	1500.0				QL=4 ST=1 TYP=6	
15400	SGMR	48 C	1013.0	1027.0	14.0	55.0				QL=4 ST=2 TYP=8	
15400	SGMR	4 S/F	1013.0	1013.0	827.0	32.0				QL=4 ST=1 TYP=3	
245	SGMR	48 C	1031.0	1035.0	7.0	450.0				QL=4 ST=2 TYP=8	
410	SGMR	4 S/F	1033.0	1034.0	4.0	120.0				QL=4 ST=2 TYP=3	
1415	SGMR	4 S/F	1034.0	1035.0	4.0	77.0				QL=4 ST=2 TYP=3	
2695	SGMR	4 S/F	1034.0	1035.0	4.0	64.0				QL=4 ST=2 TYP=3	
610	SGMR	4 S/F	1035.0	1035.0	3.0	34.0				QL=4 ST=2 TYP=3	
8800	SVTO	46 C	1035.0	1035.0	805.0	33.0				QL=4 ST=1 TYP=8	
204	IZMI	46 C	1041.9	1048.5	47.3	4287.0					
245	SGMR	49 GB	1046.0	1048.0	34.0	5000.0				QL=4 ST=2 TYP=6	
245	SGMR	49 GB	1046.0	1048.0	794.0	5000.0				QL=4 ST=1 TYP=6	
410	SGMR	48 C	1047.0	1101.0	33.0	750.0				QL=4 ST=2 TYP=8	
610	SGMR	48 C	1047.0	1101.0	33.0	200.0				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

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
15	1415	SGMR	20 GRF	1047.0	1048.0	33.0	360.0			QL=4 ST=2 TYP=2	
	2695	SGMR	4 S/F	1047.0	1049.0	33.0	260.0			QL=4 ST=2 TYP=3	
	4995	SGMR	4 S/F	1047.0	1049.0	33.0	190.0			QL=4 ST=2 TYP=3	
	410	SGMR	49 GB	1047.0	1049.0	793.0	670.0			QL=4 ST=1 TYP=6	
	410	SGMR	48 C	1047.0	1101.0	793.0	750.0			QL=4 ST=1 TYP=8	
	610	SGMR	4 S/F	1047.0	1048.0	793.0	140.0			QL=4 ST=1 TYP=3	
	610	SGMR	48 C	1047.0	1101.0	793.0	200.0			QL=4 ST=1 TYP=8	
	1415	SGMR	4 S/F	1047.0	1048.0	793.0	360.0			QL=4 ST=1 TYP=3	
	2695	SGMR	4 S/F	1047.0	1049.0	793.0	260.0			QL=4 ST=1 TYP=3	
	4995	SGMR	4 S/F	1047.0	1049.0	793.0	190.0			QL=4 ST=1 TYP=3	
	3000	IZMI	45 C	1047.1	1048.9	32.0	261.0	41.0			
	8800	SGMR	4 S/F	1048.0	1049.0	32.0	100.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1048.0	1049.0	32.0	49.0				QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1048.0	1049.0	792.0	100.0				QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1048.0	1049.0	792.0	49.0				QL=4 ST=1 TYP=3
	410	SVTO	8 S	1253.0	1253.0	U	83.0				QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1522.0	1545.0	70.0U	48.0				
	33	UPIC	46 C	1535.0	1536.0	5.0					
	2695	SVTO	20 GRF	1537.0	1544.0	18.0	49.0				QL=4 ST=2 TYP=2
	1415	SVTO	20 GRF	1538.0	1550.0	15.0	50.0				QL=4 ST=2 TYP=2
	2695	SGMR	20 GRF	1539.0	1546.0	19.0	39.0				QL=4 ST=2 TYP=2
	1415	SGMR	20 GRF	1540.0	1550.0	18.0	53.0				QL=4 ST=2 TYP=2
	610	SGMR	4 S/F	1626.0	1627.0	3.0	82.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	1626.0	1627.0	1.0	63.0				QL=4 ST=2 TYP=3
	200	HIRA	8 S	2028.0	2028.0	1.0	10.0				0
	2840	PEKG	3 S	2206.0	2220.4	23.0	57.5				
	6700	CUBA	21 GRF	2208.0	2227.0	22.0D	13.0	6.0			5L SUNSET
	9500	CUBA	21 GRF	2209.0	2224.0	21.0D	11.0	5.0			SUNSET
	2800	PENT	29 PBI	2211.0	2220.0	21.0	32.0				
	2800	HIRA	4 S/F	2215.0	2220.0	8.0	30.0				0
	1415	PALE	4 S/F	2216.0	2217.0	4.0	150.0				QL=4 ST=2 TYP=3
	4995	PALE	48 C	2216.0	2220.0	6.0	81.0				QL=4 ST=2 TYP=8
	8800	PALE	48 C	2216.0	2220.0	6.0	86.0				QL=4 ST=2 TYP=8
	1415	SGMR	4 S/F	2216.0	2217.0	6.0	140.0				QL=4 ST=2 TYP=3
	4995	SGMR	48 C	2216.0	2220.0	10.0	84.0				QL=4 ST=2 TYP=8
	6700	CUBA	45 C	2216.2	2220.5	6.6	51.0				2L
	9500	CUBA	45 C	2216.5	2220.2	5.5	48.0				
	500	HIRA	7 C	2217.0	2218.0	4.0	10.0				0
	2695	PALE	8 S	2217.0	2217.0	1.0	33.0				QL=4 ST=2 TYP=3
	8800	SGMR	48 C	2217.0	2220.0	9.0	72.0				QL=4 ST=2 TYP=8
2695	SGMR	4 S/F	2219.0	2220.0	7.0	41.0				QL=4 ST=2 TYP=3	
200	HIRA	7 C	2229.0	2230.0	17.0	10.0				0	
16	280	CUBA	44 NS	1300.0E		420.0D		19.0			
	235	CUBA	44 NS	1300.0E		420.0D		8.0			
	500	HIRA	8 S	0048.0	0048.0	1.0	10.0				0
	200	HIRA	8 S	0048.0	0048.0	1.0	10.0				0
	2840	PEKG	20 GRF	0426.0	0434.3	19.0	10.5				
	204	IZMI	42 SER	0509.4	0509.5	2.0	20.0				
	204	IZMI	41 F	0603.9	0604.1	0.7	23.0				
	204	IZMI	42 SER	0608.7	0612.4	5.4	18.0				
	204	IZMI	41 F	0949.2	0949.3	0.5	14.0				
	6700	CUBA	20 GRF	1244.0E	1244.0	151.0D	10.0	5.0			15R
	9500	CUBA	20 GRF	1247.0E	1247.0	132.0D	18.0	9.0			
	245	SGMR	8 S	1635.0	1635.0	U	48.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1705.0	1706.0	2.0	81.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1705.0	1706.0	1.0	82.0				QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1829.0	1855.0	63.0U	10.0				
	6700	CUBA	20 GRF	1843.0	1859.0	131.0	15.0	7.0			5L
	9500	CUBA	20 GRF	1853.0	1916.0	62.0	7.0	3.0			
	2804	VORO	2 S/F	2202.5	2202.7	2.5	24.2				
	2840	PEKG	3 S	2228.0	2237.3	21.0	72.4				
	500	HIRA	4 S/F	2233.0	2236.0	6.0	10.0				0
	2800	HIRA	3 S	2233.0	2237.0	11.0	60.0				0
	200	HIRA	42 SER	2234.0	2235.0	4.0	15.0				0
	1415	PALE	4 S/F	2235.0	2236.0	3.0	51.0				QL=4 ST=2 TYP=3
2695	PALE	4 S/F	2235.0	2237.0	3.0	49.0				QL=4 ST=2 TYP=3	
4995	PALE	4 S/F	2235.0	2237.0	4.0	50.0				QL=4 ST=2 TYP=3	
2840	PEKG	5 S	2251.0	2252.7	9.0	31.7					

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

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Jun 01

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
17	127	TORN	44 NS	0630.0E		510.0D		20.0		V=1	
	127	TORN	44 NS	1300.0E		120.0D		30.0		V=1	
	280	CUBA	44 NS	1310.0E		520.0D		16.0			
	235	CUBA	44 NS	1310.0E		520.0D		10.0			
	2840	PEKG	45 C	0304.0	0312.3	20.0		27.9			
	2800	HIRA	1 S	0307.0	0310.0	7.0		20.0			0
	500	HIRA	8 S	0309.0	0309.0	1.0		5.0			0
	2804	VORO	3 S	0310.0	0312.3	10.0		17.8			
	3000	IZMI	20 GRF	0518.6	0520.5	5.8		15.0	7.0		
	2840	PEKG	20 GRF	0954.0	1003.2	21.0		16.8			
	6700	CUBA	8 S	1454.5	1455.0	0.7		26.0	13.0		00L
	6700	CUBA	1 S	1723.0	1724.0	2.0		10.0	5.0		44L
	2800	PENT	29 PBI	2225.0	2229.0	7.0U		7.0			
	2840	PEKG	3 S	2226.0	2229.0	14.0		12.6			
	6700	CUBA	2 S/F	2228.5	2229.6	2.5		79.0	39.0		10L
	9500	CUBA	2 S/F	2228.6	2229.5	2.4		57.0	28.0		
	4995	PALE	8 S	2229.0	2229.0	1.0		69.0			QL=4 ST=2 TYP=3
8800	PALE	8 S	2229.0	2229.0	1.0		77.0			QL=4 ST=2 TYP=3	
18	204	IZMI	43 NS	0500.0		420.0D		20.0			
	127	TORN	44 NS	0630.0E		510.0D		70.0		V=1	
	280	CUBA	44 NS	1300.0E		530.0D		20.0			
	235	CUBA	44 NS	1300.0E		530.0D		10.0			
	204	IZMI	41 F	0548.2	0548.4	0.4		30.0			
	200	HIRA	7 C	0833.0	0834.0	8.0		35.0			WL
	245	LEAR	8 S	0927.0E	0928.0	2.0D		68.0			QL=2 ST=2 TYP=3
	2800	PENT	1 S	1451.0	1454.0	7.0		9.0			
	9500	CUBA	8 S	1454.8	1454.9	0.2		24.0	12.0		
	6700	CUBA	21 GRF	2000.0	2020.0	151.0D		47.0	23.0		6L SUNSET
	4995	SGMR	4 S/F	2001.0	2003.0	10.0		87.0			QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	2001.0	2018.0	149.0D		31.0	15.0		SUNSET
	9500	CUBA	2 S/F	2001.8	2003.3	3.0		32.0	16.0		
	2695	PALE	4 S/F	2002.0	2003.0	5.0		72.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2002.0	2003.0	238.0		72.0			QL=4 ST=1 TYP=3
	6700	CUBA	2 S/F	2002.1	2003.5	2.7		27.0	13.0		36R
	1415	PALE	4 S/F	2003.0	2003.0	3.0		48.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2003.0	2003.0	5.0		50.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	2003.0	2003.0	3.0		60.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2003.0	2004.0	1.0		46.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2003.0	2003.0	U		34.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2003.0	2003.0	237.0		48.0			QL=4 ST=1 TYP=3
	4995	PALE	4 S/F	2003.0	2003.0	237.0		50.0			QL=4 ST=1 TYP=3
	8800	PALE	4 S/F	2005.0	2008.0	4.0		35.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2005.0	2008.0	235.0		35.0			QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	2020.0	2020.0	8.0		33.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2020.0	2021.0	1.0		2.0			QL=4 ST=2 TYP=3
8800	PALE	8 S	2020.0	2021.0	1.0		5.0			QL=4 ST=2 TYP=3	
15400	PALE	8 S	2020.0	2022.0	2.0		14.0			QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	2354.0	2412.0	43.0		12.0				
2840	PEKG	1 S	2357.0	2359.4	7.0		6.9				
19	204	IZMI	44 NS	0500.0E		120.0D		5.0			
	127	TORN	44 NS	0630.0E		510.0D		60.0		V=2	
	280	CUBA	44 NS	1325.0E		395.0D		17.0			
	235	CUBA	44 NS	1325.0E		395.0D		6.0			
	245	LEAR	43 NS	2340.0	2340.0	20.0		64.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2340.0	2340.0	47.0		64.0			QL=4 ST=2 TYP=1
	2840	PEKG	1 S	0217.0	0220.2	7.0		9.7			
	2804	VORO	3 S	0217.5	0220.0	4.5		6.2			
	500	HIRA	3 S	0333.0	0336.0	8.0		60.0			0
	410	LEAR	8 S	0335.0	0336.0	2.0		85.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0335.0	0335.0	U		36.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0335.0	0336.0	2.0		96.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0335.0	0335.0	U		33.0			QL=4 ST=2 TYP=3
	200	HIRA	7 C	0335.0	0337.0	14.0		90.0			0
	245	LEAR	48 C	0336.0	0339.0	4.0		58.0			QL=4 ST=2 TYP=8
	3000	IZMI	20 GRF	0502.6	0504.7	2.5		17.0	8.0		
	3000	IZMI	20 GRF	0601.6	0602.5	7.1		14.0	5.0		
200	HIRA	8 S	0806.0	0807.0	3.0		60.0			-	

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

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
19	2800	PENT	29 PBI	1816.0	1821.0	71.0	19.0			
	6700	CUBA	21 GRF	1820.0	1828.0	146.0	8.0	4.0		9L
	6700	CUBA	1 S	1820.6	1821.5	1.4	18.0	9.0		11L
	9500	CUBA	21 GRF	1821.0	1822.0	28.0	4.0	2.0		
	9500	CUBA	1 S	1821.0	1821.5	1.0	14.0	7.0		
	2840	PEKG	45 C	2307.0	2314.3	16.0	21.2			
	2804	VORO	46 C	2311.0	2314.0	10.8	17.8			
	1415	PALE	8 S	2312.0	2314.0	2.0	320.0			QL=4 ST=2 TYP=3
	2804	VORO	30 PBI	2321.8	2321.8	18.0	6.8			
	245	LEAR	8 S	2322.0	2323.0	1.0	66.0			QL=2 ST=2 TYP=3
20	127	TORN	44 NS	0630.0E		450.0D		8.0		V=0,DISTURBED
	280	CUBA	44 NS	1500.0E		410.0D		16.0		
	235	CUBA	44 NS	1500.0E		410.0D		6.0		
	200	HIRA	42 SER	0117.0	0121.0	10.0	30.0			0
	500	HIRA	4 S/F	0340.0	0342.0	10.0	25.0			0
	610	PALE	4 S/F	0341.0	0341.0	7.0	35.0			QL=4 ST=2 TYP=3
	200	HIRA	7 C	0341.0	0342.0	10.0	30.0			0
	410	PALE	8 S	0342.0	0343.0	2.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0344.0	0344.0	2.0	38.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0651.0	0706.5	20.7	41.0			
	2950	GORK	1 S	1036.6	1036.7	0.4	6.0			
	33	UPIC	42 SER	1437.5	1438.0	14.5				
	2800	PENT	20 GRF	1851.0	1855.0	41.0U	10.0			
	245	SGMR	4 S/F	1925.0	1932.0	8.0	38.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1925.0	1930.0	8.0	130.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	1926.0	1930.0	7.0	170.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1926.0	1930.0	6.0	130.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	1926.0	1930.0	274.0	170.0			QL=4 ST=1 TYP=8
	245	SGMR	8 S	1931.0	1932.0	2.0	36.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1932.0	1932.0	U	42.0			QL=4 ST=2 TYP=3
	6700	CUBA	21 GRF	2015.0	2047.0	135.0D	19.0	9.0		5R SUNSET
	610	PALE	49 GB	2016.0	2019.0	4.0	1000.0			QL=4 ST=2 TYP=6
	610	SGMR	4 S/F	2016.0	2019.0	3.0	870.0			QL=4 ST=2 TYP=3
2800	PENT	29 PBI	2035.0	2058.0	49.0	11.0				
6700	CUBA	2 S/F	2038.2	2039.1	4.3	14.0	7.0		7R	
2804	VORO	3 S	2252.0	2253.7	3.3	5.1				
2804	VORO	8 S	2327.3	2327.4	0.2	15.3				
21	127	TORN	43 NS	0720.0		370.0		4.0		V=0,DISTURBED
	280	CUBA	44 NS	1330.0E		455.0D		16.0		
	235	CUBA	44 NS	1330.0E		455.0D		6.0		
	2840	PEKG	45 C	0127.0	0130.3	5.0	49.0			
	2800	HIRA	8 S	0130.0	0130.0	1.0	40.0			0
	500	HIRA	8 S	0130.0	0130.0	1.0	20.0			0
	200	HIRA	8 S	0130.0	0130.0	1.0	80.0			0
	2804	VORO	40 F	0138.0	0140.3	2.7	27.1			
	245	LEAR	49 GB	0259.0	0259.0	1.0	800.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	0259.0	0259.0	1.0	920.0			QL=4 ST=2 TYP=6
	200	HIRA	47 GB	0259.0	0308.0	20.0	500.0			0
	245	LEAR	8 S	0302.0	0303.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0303.0	0303.0	U	110.0			QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0303.0	0308.0	16.0	35.0			0
	245	LEAR	8 S	0307.0	0308.0	2.0	310.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0307.0	0308.0	3.0	350.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0308.0	0308.0	1.0	74.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0308.0	0308.0	1.0	83.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0318.0	0318.0	U	350.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0318.0	0318.0	U	400.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0436.0	0437.0	1.0	10.0			0
	200	HIRA	8 S	0437.0	0437.0	1.0	5.0			ML
	245	LEAR	4 S/F	0501.0	0502.0	3.0	62.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0501.0	0502.0	3.0	50.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0505.2	0505.6	0.6	26.0			
	204	IZMI	42 SER	0507.4	0507.5	0.7	26.0			
	204	IZMI	42 SER	0629.2	0632.5	3.4	66.0			
	204	IZMI	42 SER	0636.3	0637.0	1.7	65.0			
	204	IZMI	42 SER	0703.5	0706.5	16.3	75.0			
	245	SVTO	8 S	0829.0	0829.0	U	110.0			QL=4 ST=2 TYP=3

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

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Jun 01

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
21	410	SVTO	8 S	0829.0	0829.0	U	87.0			QL=4 ST=2 TYP=3	
	204	IZMI	42 SER	0829.3	0829.9	1.3	125.0				
	200	HIRA	8 S	0830.0	0830.0	1.0	25.0			0	
	204	IZMI	42 SER	0832.2	0833.1	1.4	26.0				
	200	HIRA	8 S	0903.0	0903.0	1.0	60.0			SL	
	3000	IZMI	22 GRF	1102.2	1108.1	8.8	19.0	11.0			
	33	UPIC	46 C	1136.5	1137.0	2.0					
	245	SGMR	8 S	1259.0	1259.0	1.0	210.0				QL=4 ST=4 TYP=3
	245	SGMR	8 S	1259.0	1259.0	1.0	210.0				QL=4 ST=3 TYP=3
	245	SGMR	8 S	1259.0	1259.0	1.0	210.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1508.0	1508.0	U	62.0				QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1552.0	1600.0	40.0U	22.0				
	245	SVTO	8 S	1607.0	1607.0	U	57.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	1718.0	1719.0	1.0	150.0				QL=2 ST=2 TYP=3
	245	SGMR	8 S	1718.0	1719.0	1.0	97.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1718.0	1719.0	1.0	95.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	1818.0	1818.0	U	65.0				QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	2102.0	2106.0	59.0	13.0				
	22	127	TORN	44 NS	0740.0E		440.0D		7.0		V=1
204		IZMI	43 NS	0955.0		125.0D		15.0			
280		CUBA	44 NS	1300.0E		530.0D		19.0			
235		CUBA	44 NS	1300.0E		530.0D		8.0			
410		SGMR	43 NS	1832.0	1846.0	16.0	54.0				QL=4 ST=2 TYP=1
410		SGMR	43 NS	1832.0	1833.0	328.0	53.0				QL=4 ST=1 TYP=1
2804		VORO	1 S	0318.2	0318.6	1.0	4.7				
245		LEAR	4 S/F	0459.0	0502.0	5.0	100.0				QL=4 ST=2 TYP=3
410		LEAR	8 S	0459.0	0500.0	1.0	130.0				QL=4 ST=2 TYP=3
245		SVTO	8 S	0459.0	0500.0	1.0	73.0				QL=4 ST=2 TYP=3
410		SVTO	8 S	0459.0	0500.0	1.0	69.0				QL=4 ST=2 TYP=3
600		GORK	46 C	0459.5	0501.7	4.0	40.0				
900		GORK	42 SER	0459.8	0501.2	2.1	14.0				
204		IZMI	42 SER	0459.8	0500.5	3.1	117.0				
500		HIRA	8 S	0500.0	0500.0	2.0	80.0				0
200		HIRA	8 S	0500.0	0500.0	1.0	30.0				0
2950		GORK	8 S	0501.0	0501.2	0.6	11.4				
2840		PEKG	5 S	0629.0	0632.4	8.0	16.3				
3000		IZMI	7 C	0631.4	0632.3	3.9	23.0	7.0			
2950		GORK	4 S/F	0631.8	0632.4	1.7	16.0				
204		IZMI	7 C	0648.6	0648.7	0.3	67.0				
3000		IZMI	45 C	0915.9	0928.2	17.8	27.0	11.0			
2840		PEKG	20 GRF	0920.0	0927.7	27.0	26.8				
2950		GORK	22 GRF	0921.2	0928.2		16.0				
2950		GORK	22 GRF	0921.2	0922.6	33.8	10.0				
9100		GORK	22 GRF	0921.5	0929.1	17.5	18.0				
9100		GORK	45 C	0926.3	0928.2	3.0	32.0				
2800		PENT	20 GRF	1408.0	1441.0	63.0	13.0				
245		PALE	4 S/F	1715.0	1719.0	4.0	71.0				QL=4 ST=2 TYP=3
245		SGMR	8 S	1715.0	1715.0	U	63.0				QL=4 ST=2 TYP=3
245		PALE	8 S	1814.0	1815.0	1.0	100.0				QL=4 ST=2 TYP=3
245		SGMR	8 S	1814.0	1814.0	U	82.0				QL=4 ST=2 TYP=3
2800		PENT	1 S	1821.0	1825.0	9.0	13.0				
410		SGMR	46 C	1824.0	1825.0	3.0	45.0				QL=4 ST=3 TYP=8
410		SGMR	46 C	1824.0	1825.0	3.0	45.0				QL=4 ST=2 TYP=8
6700		CUBA	2 S/F	1824.1	1826.1	5.7	43.0	21.0			6R
9500	CUBA	2 S/F	1824.2	1825.9	4.8	67.0	33.0				
8800	SGMR	8 S	1825.0	1825.0	2.0	39.0				QL=4 ST=3 TYP=3	
8800	SGMR	8 S	1825.0	1825.0	2.0	39.0				QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1825.0	1825.0	2.0	66.0				QL=4 ST=3 TYP=3	
15400	SGMR	8 S	1825.0	1825.0	2.0	66.0				QL=4 ST=2 TYP=3	
4995	SGMR	8 S	1826.0	1826.0	1.0	11.0				QL=4 ST=3 TYP=3	
4995	SGMR	8 S	1826.0	1826.0	1.0	11.0				QL=4 ST=2 TYP=3	
410	PALE	8 S	1830.0	1830.0	U	39.0				QL=4 ST=2 TYP=3	
610	PALE	8 S	1830.0	1830.0	1.0	110.0				QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	2009.0	2217.0	143.0U	110.0					
280	CUBA	48 C	2020.0	2046.0	31.5	293.0					
235	CUBA	48 C	2020.0	2026.0	31.5D	147.0					
200	HIRA	7 C	2022.0	2034.0	31.0	75.0				0	
410	PALE	8 S	2023.0	2023.0	1.0	34.0				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

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
22	245	SGMR	48 C	2023.0	2045.0	27.0	310.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	2023.0	2027.0	217.0	120.0			QL=4 ST=1 TYP=8
	245	SGMR	48 C	2023.0	2045.0	217.0	310.0			QL=4 ST=1 TYP=8
	245	PALE	49 GB	2024.0	2028.0	26.0	1800.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	2024.0	2028.0	216.0	1800.0			QL=4 ST=1 TYP=6
	410	SGMR	48 C	2025.0	2038.0	25.0	280.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	2025.0	2034.0	215.0	96.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	2025.0	2038.0	215.0	280.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	2026.0	2030.0	24.0	130.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	2026.0	2030.0	214.0	130.0			QL=4 ST=1 TYP=8
	610	PALE	4 S/F	2027.0	2031.0	9.0	150.0			QL=4 ST=2 TYP=3
	500	HIRA	7 C	2027.0	2034.0	24.0	180.0			0
	610	PALE	4 S/F	2027.0	2031.0	213.0	150.0			QL=4 ST=1 TYP=3
	2800	PENT	32 ABS	2114.0E	2119.0	18.0U	3.0			
	6700	CUBA	22 GRF	2115.0	2120.0	37.0	10.0	5.0		9L
	2840	PEKG	3 S	2208.0	2217.3	33.0	152.4			
	2800	HIRA	3 S	2215.0	2217.0	9.0	105.0			0
	2695	SGMR	48 C	2215.0	2217.0	22.0	110.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	2215.0	2216.0	22.0	130.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	2215.0	2217.0	105.0	110.0			QL=4 ST=1 TYP=8
	4995	SGMR	48 C	2215.0	2216.0	105.0	130.0			QL=4 ST=1 TYP=8
	6700	CUBA	45 C	2215.3	2219.5	5.1	122.0	61.0		19R
	500	HIRA	8 S	2216.0	2217.0	3.0	50.0			0
	410	PALE	8 S	2216.0	2216.0		420.0			U
	2695	PALE	4 S/F	2216.0	2217.0	4.0	120.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2216.0	2217.0	8.0	150.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2216.0	2219.0	18.0	200.0			QL=4 ST=2 TYP=3
	1415	SGMR	48 C	2216.0	2217.0	21.0	66.0			QL=4 ST=2 TYP=8
	410	PALE	4 S/F	2216.0	2216.0	104.0	420.0			QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	2216.0	2217.0	104.0	120.0			QL=4 ST=1 TYP=3
	4995	PALE	4 S/F	2216.0	2217.0	104.0	150.0			QL=4 ST=1 TYP=3
	1415	SGMR	48 C	2216.0	2217.0	104.0	66.0			QL=4 ST=1 TYP=8
	9500	CUBA	45 C	2216.2	2218.9	4.0	129.0			
1415	PALE	8 S	2217.0	2218.0	2.0	59.0			QL=4 ST=2 TYP=3	
1415	PALE	4 S/F	2217.0	2218.0	103.0	59.0			QL=4 ST=1 TYP=3	
15400	PALE	4 S/F	2218.0	2219.0	10.0	130.0			QL=4 ST=2 TYP=3	
15400	PALE	4 S/F	2218.0	2219.0	102.0	130.0			QL=4 ST=1 TYP=3	
9500	CUBA	29 PBI	2220.0	2220.0	30.0	37.0	18.0			
8800	SGMR	46 C	2223.0	2224.0	14.0	28.0			QL=4 ST=2 TYP=8	
8800	SGMR	4 S/F	2223.0	2224.0	97.0	120.0			QL=4 ST=1 TYP=3	
2800	PENT	41 F	2356.0	2413.0	24.0	23.0				
2840	PEKG	1 S	2359.0	2400.7	5.0	5.7				
23	127	TORN	44 NS	0630.0E	1035.3	510.0D	380.0	8.0		V=2
	204	IZMI	43 NS	1006.0		114.0D		25.0		
	200	HIRA	8 S	0000.0	0001.0	1.0	20.0			0
	2840	PEKG	45 C	0010.0	0013.0	6.0	44.9			
	2804	VORO	46 C	0011.0	0012.8	4.0	28.7			
	2800	HIRA	1 S	0012.0	0013.0	3.0	35.0			0
	2840	PEKG	20 GRF	0154.0	0207.9	20.0	11.3			
	2804	VORO	1 S	0202.5	0203.1	1.9	4.6			
	500	HIRA	8 S	0208.0	0209.0	2.0	70.0			0
	200	HIRA	8 S	0208.0	0208.0	1.0	20.0			0
	2840	PEKG	45 C	0404.0	0407.7	10.0	54.3			
	8800	SVTO	4 S/F	0405.0	0407.0	4.0	110.0			QL=4 ST=2 TYP=3
	2804	VORO	46 C	0405.3	0407.7	5.0	45.1			
	2800	HIRA	3 S	0406.0	0408.0	4.0	45.0			0
	4995	LEAR	8 S	0407.0	0407.0	1.0	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0407.0	0407.0	1.0	92.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0407.0	0407.0	5.0	78.0			QL=4 ST=3 TYP=3
	4995	PALE	4 S/F	0407.0	0407.0	5.0	78.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0407.0	0407.0	5.0	74.0			QL=4 ST=3 TYP=3
	8800	PALE	4 S/F	0407.0	0407.0	5.0	74.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0407.0	0407.0	1.0	45.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0407.0	0407.0	1.0	90.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0407.0	0407.0	1193.0	100.0			QL=4 ST=1 TYP=3
8800	LEAR	4 S/F	0407.0	0407.0	1193.0	92.0			QL=4 ST=1 TYP=3	
2950	GORK	46 C	0407.0	0407.2	2.0	26.0				
2950	GORK	46 C	0407.0	0407.8		41.0				

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

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JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
23	900	GORK	3 S	0407.5	0407.7	0.8	15.0			
	610	SVTO	49 GB	0501.0	0507.0	7.0	1900.0			QL=4 ST=2 TYP=6
	610	SVTO	48 C	0501.0	0507.0	1139.0	1900.0			QL=4 ST=1 TYP=8
	204	IZMI	42 SER	0503.4	0503.4	0.8	26.0			
	9100	GORK	3 S	0506.8	0507.8	1.1	18.0			
	500	HIRA	8 S	0507.0	0507.0	1.0	140.0			0
	610	LEAR	49 GB	0507.0	0507.0	1.0	1600.0			QL=4 ST=2 TYP=6
	610	LEAR	49 GB	0507.0	0507.0	1133.0	1600.0			QL=4 ST=1 TYP=6
	9100	GORK	1 S	0508.5	0509.2	1.2	7.9			
	204	IZMI	41 F	0509.8	0510.2	0.6	39.0			
	204	IZMI	7 C	0518.4	0518.5	0.2	26.0			
	500	HIRA	8 S	0519.0	0519.0	1.0	60.0			0
	2840	PEKG	20 GRF	0617.0	0624.1	12.0	6.1			
	900	GORK	41 F	0622.8	0623.8		18.0			
	3000	IZMI	42 SER	0622.8	0623.8	15.9	12.0	5.0		
	900	GORK	41 F	0622.8	0622.9	1.2	6.0			
	2950	GORK	45 C	0623.0	0623.5	1.4	6.3			
	2950	GORK	45 C	0623.0	0625.5		8.0			
	9100	GORK	20 GRF	0623.2	0635.5	35.0	24.0			
	600	GORK	42 SER	0634.0	0637.4	5.1	170.0U			
	600	GORK	42 SER	0634.0	0638.8		30.0			
	500	HIRA	8 S	0637.0	0637.0	1.0	190.0			0
	410	LEAR	8 S	0637.0	0637.0	U	100.0			QL=4 ST=2 TYP=3
	610	LEAR	49 GB	0637.0	0637.0	U	670.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0637.0	0637.0	U	75.0			QL=4 ST=2 TYP=3
	610	SVTO	49 GB	0637.0	0637.0	U	640.0			QL=4 ST=2 TYP=6
	900	GORK	41 F	0637.2	0637.3	2.0	53.0			
	900	GORK	41 F	0637.2	0638.7		50.0			
	204	IZMI	41 F	0637.4	0637.6	0.8	31.0			
	2950	GORK	1 S	0637.4	0637.7	0.4	8.0			
	200	HIRA	8 S	0638.0	0638.0	1.0	20.0			0
	2840	PEKG	45 C	0803.0	0834.0	31.0	47.3			
	500	HIRA	7 C	0832.0	0835.0	4.0	145.0			0
	200	HIRA	8 S	0832.0	0833.0	2.0	100.0			0
	245	LEAR	8 S	0832.0	0833.0	1.0	94.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0832.0	0833.0	1.0	160.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0832.0	0833.0	2.0	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0832.0	0833.0	2.0	88.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0832.0	0833.0	1.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0832.0	0833.0	2.0	150.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	0832.0	0833.0	4.0				
	204	IZMI	46 C	0832.1	0833.2	3.1	224.0			
	3000	IZMI	7 C	0833.1	0834.1	1.3	57.0	14.0		
	2950	GORK	45 C	0833.5	0834.1		38.0			
	2950	GORK	45 C	0833.5	0833.7	0.9	11.0			
500	HIRA	8 S	0849.0	0849.0	1.0	85.0			0	
200	HIRA	7 C	0853.0	0856.0	3.0	45.0			0	
204	IZMI	46 C	0853.4	0855.3	2.8	107.0				
204	IZMI	42 SER	1035.1	1035.1	1.6	91.0				
245	SGMR	8 S	1039.0	1039.0	U	140.0			QL=4 ST=2 TYP=3	
204	IZMI	7 C	1053.0	1053.2	0.4	37.0				
127	TORN	7 C	1057.0	1057.7	2.1	130.0	30.0			
127	TORN	48 C	1126.3	1127.6	4.6	500.0	60.0			
245	SGMR	8 S	1230.0	1230.0	U	75.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1230.0	1230.0	U	77.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1324.0	1325.0	1.0	52.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1325.0	1325.0	U	60.0			QL=4 ST=2 TYP=3	
33	UPIC	46 C	1332.0	1334.5	6.5					
610	SGMR	8 S	1504.0	1504.0	U	58.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	1927.0	1927.0	1.0	25.0			0	
245	PALE	8 S	1927.0	1927.0	1.0	92.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1927.0	1927.0	U	74.0			QL=4 ST=2 TYP=3	
6700	CUBA	20 GRF	1948.0	1958.0	19.0	7.0	3.0		00L	
200	HIRA	8 S	2257.0	2259.0	3.0	15.0			0	
24	245	LEAR	43 NS	0433.0	0434.0	1167.0	52.0			QL=4 ST=1 TYP=1
	204	IZMI	44 NS	0500.0E		420.0D		20.0		
	127	TORN	44 NS	0630.0E		510.0D		20.0		V=2

S O L A R R A D I O E M I S S I O N
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
24	245	SGMR	43 NS	1810.0	1814.0	8.0	210.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1810.0	1814.0	350.0	210.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	2029.0	2104.0	160.0	160.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2029.0	2105.0	183.0	210.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2029.0	2029.0	211.0	83.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	2029.0	2057.0	211.0	80.0			QL=4 ST=1 TYP=1
	200	HIRA	8 S	0045.0	0046.0	3.0	25.0			0
	245	LEAR	8 S	0133.0	0134.0	2.0	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0228.0	0228.0	1.0	98.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0229.0	0229.0	1.0	90.0			0
	2840	PEKG	3 S	0311.0E	0313.9	9.0U	114.6			
	2800	HIRA	8 S	0313.0	0314.0	3.0	90.0			0
	500	HIRA	47 GB	0313.0	0313.0	3.0	510.0			0
	200	HIRA	8 S	0313.0	0313.0	4.0	380.0			0
	245	LEAR	49 GB	0313.0	0313.0	3.0	510.0			QL=4 ST=2 TYP=6
	410	LEAR	8 S	0313.0	0313.0	1.0	230.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0313.0	0313.0	1.0	430.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0313.0	0313.0	2.0	110.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0313.0	0313.0	1.0	110.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0313.0	0313.0	1.0	170.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0313.0	0313.0	1.0	230.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0313.0	0313.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0313.0	0313.0	1.0	750.0			QL=4 ST=2 TYP=6
	610	PALE	8 S	0313.0	0313.0	1.0	480.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0313.0	0313.0	2.0	130.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0313.0	0313.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0313.0	0313.0	1247.0	510.0			QL=4 ST=1 TYP=6
	410	LEAR	4 S/F	0313.0	0313.0	1247.0	230.0			QL=4 ST=1 TYP=3
	610	LEAR	4 S/F	0313.0	0313.0	1247.0	430.0			QL=4 ST=1 TYP=3
	1415	LEAR	4 S/F	0313.0	0313.0	1247.0	110.0			QL=4 ST=1 TYP=3
	2695	LEAR	4 S/F	0313.0	0313.0	1247.0	110.0			QL=4 ST=1 TYP=3
	4995	LEAR	4 S/F	0313.0	0313.0	1247.0	170.0			QL=4 ST=1 TYP=3
	8800	LEAR	4 S/F	0313.0	0313.0	1247.0	230.0			QL=4 ST=1 TYP=3
	15400	LEAR	4 S/F	0313.0	0313.0	1247.0	200.0			QL=4 ST=1 TYP=3
	245	PALE	49 GB	0313.0	0313.0	1247.0	750.0			QL=4 ST=1 TYP=6
	610	PALE	4 S/F	0313.0	0313.0	1247.0	480.0			QL=4 ST=1 TYP=3
	1415	PALE	4 S/F	0313.0	0313.0	1247.0	130.0			QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	0313.0	0313.0	1247.0	73.0			QL=4 ST=1 TYP=3
	2804	VORO	3 S	0337.5	0340.8	5.2	11.4			
	245	LEAR	4 S/F	0446.0	0448.0	3.0	190.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0446.0	0448.0	3.0	450.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0446.0	0451.1	16.0	58.3			
	610	LEAR	4 S/F	0447.0	0448.0	3.0	120.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0447.0	0449.0	6.0	61.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0447.0	0449.0	6.0	23.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0447.0	0451.0	6.0	35.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0447.0	0451.0	4.0	19.0			QL=4 ST=2 TYP=3
	500	HIRA	47 GB	0448.0	0448.0	2.0	790.0			MR
	200	HIRA	8 S	0448.0	0450.0	2.0	15.0			WR
	610	LEAR	8 S	0521.0	0522.0	2.0	110.0			QL=4 ST=2 TYP=3
200	HIRA	8 S	0530.0	0531.0	2.0	90.0			0	
245	LEAR	8 S	0530.0	0531.0	1.0	56.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0530.0	0531.0	1.0	56.0			QL=4 ST=2 TYP=3	
204	IZMI	46 C	0530.2	0531.0	16.0	211.0				
2840	PEKG	45 C	0630.0	0633.3	6.0	20.2				
410	LEAR	4 S/F	0632.0	0633.0	4.0	110.0			QL=4 ST=2 TYP=3	
610	LEAR	4 S/F	0632.0	0633.0	4.0	91.0			QL=4 ST=2 TYP=3	
1415	LEAR	4 S/F	0632.0	0633.0	4.0	56.0			QL=4 ST=2 TYP=3	
600	GORK	46 C	0632.4	0633.4	4.1	220.0				
600	GORK	46 C	0632.4	0633.9		210.0				
2950	GORK	46 C	0632.5	0633.9		15.0				
204	IZMI	42 SER	0632.6	0632.7	3.6	119.0				
900	GORK	46 C	0632.7	0634.0		94.0				
900	GORK	46 C	0632.7	0633.2	3.7	16.0				
3000	IZMI	7 C	0632.8	0633.9	3.3	24.0	10.0			
2950	GORK	46 C	0632.9	0633.2	1.7	15.0				
500	HIRA	7 C	0633.0	0633.0	3.0	160.0			0	
245	LEAR	8 S	0633.0	0633.0	1.0	92.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0633.0	0633.0	U	98.0			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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Jun 01

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
24	410	SVTO	8 S	0633.0	0633.0	U	110.0			QL=4 ST=2 TYP=3	
	610	SVTO	8 S	0633.0	0633.0	1.0	93.0			QL=4 ST=2 TYP=3	
	1415	SVTO	8 S	0633.0	0633.0	1.0	55.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0635.0	0635.0	1.0	82.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	0635.0	0635.0	1.0	63.0			QL=4 ST=2 TYP=3	
	1415	SVTO	8 S	0635.0	0635.0	1.0	23.0			QL=4 ST=2 TYP=3	
	9100	GORK	2 S/F	0635.5	0636.2	2.0	9.0				
	2950	GORK	1 S	0635.5	0635.8	0.9	2.7				
	2840	PEKG	1 S	0726.0	0729.0	8.0	8.1				
	600	GORK	46 C	0727.6	0729.0	2.2	92.0				
	900	GORK	46 C	0727.6	0729.1	2.4	70.0				
	204	IZMI	42 SER	0727.6	0728.1	2.5	80.0				
	600	GORK	46 C	0727.6	0729.3		40.0				
	33	UPIC	42 SER	0728.0		503.0					
	500	HIRA	8 S	0728.0	0729.0	2.0	25.0			0	
	200	HIRA	8 S	0728.0	0729.0	1.0	20.0			0	
	245	LEAR	8 S	0728.0	0728.0	1.0	220.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0728.0	0728.0	1.0	140.0				QL=4 ST=2 TYP=3
	610	LEAR	8 S	0728.0	0729.0	1.0	77.0				QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0728.0	0729.0	1.0	63.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0728.0	0729.0	1.0	110.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0728.0	0728.0	1.0	270.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	0728.0	0729.0	1.0	92.0				QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0728.0	0729.0	1.0	63.0				QL=4 ST=2 TYP=3
	2950	GORK	1 S	0728.7	0729.1	0.7	5.4				
	204	IZMI	7 C	0813.9	0814.0	0.3	21.0				
	200	HIRA	8 S	0814.0	0814.0	1.0	20.0				MR
	204	IZMI	42 SER	0823.9	0824.8	1.7	112.0				
	204	IZMI	46 C	0908.2	0908.3	0.4	99.0				
	2840	PEKG	1 S	1035.0	1038.8	7.0	9.4				
	204	IZMI	45 C	1129.1	1129.2	0.2	103.0				
	204	IZMI	45 C	1152.1	1152.2	0.2	113.0				
	245	SGMR	8 S	1221.0	1221.0	1.0	200.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1221.0	1221.0	1.0	150.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1221.0	1221.0	1.0	150.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	1221.0	1221.0	U	150.0				QL=2 ST=2 TYP=3
	245	SGMR	49 GB	1313.0	1313.0	1.0	1000.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1313.0	1313.0	2.0	940.0				QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1424.0	1424.0	1.0	620.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1424.0	1424.0	1.0	620.0				QL=4 ST=2 TYP=6
	410	SVTO	8 S	1424.0	1424.0	U	70.0				QL=4 ST=2 TYP=3
	245	SGMR	48 C	1430.0	1430.0	2.0	120.0				QL=4 ST=2 TYP=8
	245	SVTO	8 S	1430.0	1430.0	1.0	130.0				QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1518.0	1538.0	68.0	12.0				
	245	SGMR	8 S	1612.0	1612.0	U	55.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1612.0	1612.0	U	53.0				QL=4 ST=2 TYP=3
	610	PALE	8 S	1639.0	1639.0	U	55.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	1639.0	1639.0	U	60.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	1702.0	1702.0	U	31.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	1702.0	1702.0	2.0	71.0				QL=4 ST=2 TYP=3
245	SGMR	48 C	1712.0	1712.0	1.0	120.0				QL=4 ST=2 TYP=8	
245	SVTO	8 S	1712.0	1712.0	1.0	71.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	1716.0	1716.0	U	72.0				QL=4 ST=2 TYP=3	
245	SGMR	48 C	1716.0	1716.0	U	59.0				QL=4 ST=2 TYP=8	
245	SVTO	8 S	1716.0	1716.0	U	51.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	1752.0	1753.0	1.0	120.0				QL=4 ST=2 TYP=3	
245	SGMR	48 C	1752.0	1753.0	1.0	89.0				QL=4 ST=2 TYP=8	
245	PALE	48 C	1810.0	1814.0	5.0	330.0				QL=4 ST=3 TYP=8	
245	PALE	48 C	1810.0	1814.0	5.0	330.0				QL=4 ST=2 TYP=8	
2800	PENT	1 S	1901.0	1903.0	4.0	6.0					
245	PALE	4 S/F	1903.0	1904.0	3.0	51.0				QL=4 ST=2 TYP=3	
410	PALE	4 S/F	1903.0	1906.0	3.0	120.0				QL=4 ST=2 TYP=3	
610	PALE	4 S/F	1903.0	1903.0	5.0	36.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	2020.0	2020.0	U	65.0				QL=4 ST=2 TYP=3	
2800	PENT	1 S	2047.0	2050.0	6.0	4.0					
2804	VORO	32 ABS	2305.0	2415.0	170.0	22.8					
25	127	TORN	44 NS	0630.0E		510.0D		10.0		V=1,DISTURBED	
	280	CUBA	44 NS	1330.0E		430.0D		16.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
25	235	CUBA	44 NS	1330.0E		430.0D		6.0		
	245	LEAR	8 S	0316.0	0316.0	U	63.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0516.0	0518.6	5.0	10.8			
	9100	GORK	1 S	0518.3	0518.5	0.4	7.8			
	2950	GORK	1 S	0518.3	0518.6	1.4	9.5			
	3000	IZMI	5 S	0518.3	0518.6	0.5	16.0	8.0		
	204	IZMI	42 SER	0529.4	0529.5	0.6	30.0			
	204	IZMI	42 SER	0543.4	0545.1	3.2	148.0			
	200	HIRA	8 S	0545.0	0545.0	1.0	40.0			0
	204	IZMI	45 C	0545.1	0545.2	0.1	148.0			
	410	SVTO	8 S	0611.0	0611.0	1.0	67.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0815.5	0815.5	0.1	19.0			
	245	SVTO	8 S	0830.0	0830.0	1.0	160.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	0854.5	0857.5	8.0				
	245	LEAR	8 S	0857.0	0858.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0857.0	0857.0	1.0	32.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0857.0	0858.0	1.0	97.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0857.0	0857.0	1.0	30.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1041.0	1041.0	U	86.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1041.4	1041.5	0.3	69.0			
	610	SGMR	8 S	1230.0	1230.0	U	160.0			QL=4 ST=3 TYP=3
	610	SGMR	8 S	1230.0	1230.0	U	160.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1230.0	1230.0	U	130.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1652.0	1652.0	U	73.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1652.0	1652.0	U	56.0			QL=4 ST=2 TYP=3
26	127	TORN	44 NS	0810.0E		410.0D		30.0		V=0, DISTURBED
	280	CUBA	44 NS	1330.0E		490.0D		15.0		
	235	CUBA	44 NS	1330.0E		490.0D		5.0		
	200	HIRA	8 S	0307.0	0307.0	1.0	40.0			0
	2840	PEKG	1 S	0517.0	0520.0	5.0	5.3			
	204	IZMI	7 C	0537.8	0538.0	0.3	102.0			
	245	SVTO	8 S	0621.0	0622.0	1.0	93.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0621.7	0621.9	0.5	175.0			
	200	HIRA	8 S	0622.0	0622.0	1.0	70.0			0
	9500	CUBA	20 GRF	1316.0	1316.0	158.0	19.0	9.0		
	6700	CUBA	20 GRF	1317.0	1317.0	157.0	28.0	14.0		00L
	33	UPIC	45 C	1527.5	1529.5	3.0				
	410	SGMR	8 S	1608.0	1608.0	U	31.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1609.0	1609.0	U	130.0			QL=4 ST=2 TYP=3
	27	127	TORN	44 NS	0800.0E		330.0D		30.0	
280		CUBA	44 NS	1300.0E		240.0D		16.0		
235		CUBA	44 NS	1300.0E		240.0D		5.0		
245		LEAR	4 S/F	0112.0	0113.0	6.0	150.0			QL=4 ST=2 TYP=3
245		PALE	8 S	0113.0	0114.0	1.0	160.0			QL=2 ST=2 TYP=3
200		HIRA	7 C	0115.0	0116.0	4.0	275.0			0
245		PALE	8 S	0115.0	0117.0	2.0	440.0			QL=2 ST=2 TYP=3
200		HIRA	8 S	0741.0	0741.0	1.0	15.0			0
245		SGMR	8 S	1238.0	1238.0	1.0	290.0			QL=4 ST=2 TYP=3
245		SGMR	8 S	1626.0	1626.0	U	51.0			QL=4 ST=2 TYP=3
2695		SGMR	8 S	1957.0	1957.0	U	140.0			QL=4 ST=4 TYP=3
2695		SGMR	8 S	1957.0	1957.0	U	140.0			QL=4 ST=2 TYP=3
200		HIRA	8 S	2105.0	2105.0	1.0	30.0			0
2840		PEKG	5 S	2244.0	2247.7	6.0	22.1			
2804		VORO	1 S	2246.4	2247.5	1.5	14.4			
200		HIRA	8 S	2252.0	2252.0	1.0	10.0			0
28		127	TORN	44 NS	0630.0E		450.0D		30.0	
	280	CUBA	44 NS	1340.0E		320.0D		15.0		
	235	CUBA	44 NS	1340.0E		320.0D		5.0		
	200	HIRA	8 S	0323.0	0325.0	3.0	15.0			WL
	245	SVTO	8 S	0454.0	0455.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0945.0	0945.0	1.0	140.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1038.4	1038.8	0.5	18.0			
29	127	TORN	44 NS	0630.0E		510.0D		5.0		V=0
	280	CUBA	44 NS	1330.0E		390.0D		14.0		
	280	CUBA	44 NS	1330.0E		390.0D		5.0		

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

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Jun 01

JUNE 2001

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
30	127	TORN	44 NS	0700.0E		440.0D		40.0		V=0
	280	CUBA	44 NS	1300.0E		360.0D		14.0		
	280	CUBA	44 NS	1300.0E		360.0D		4.0		

Reports are received routinely from the following observatories:

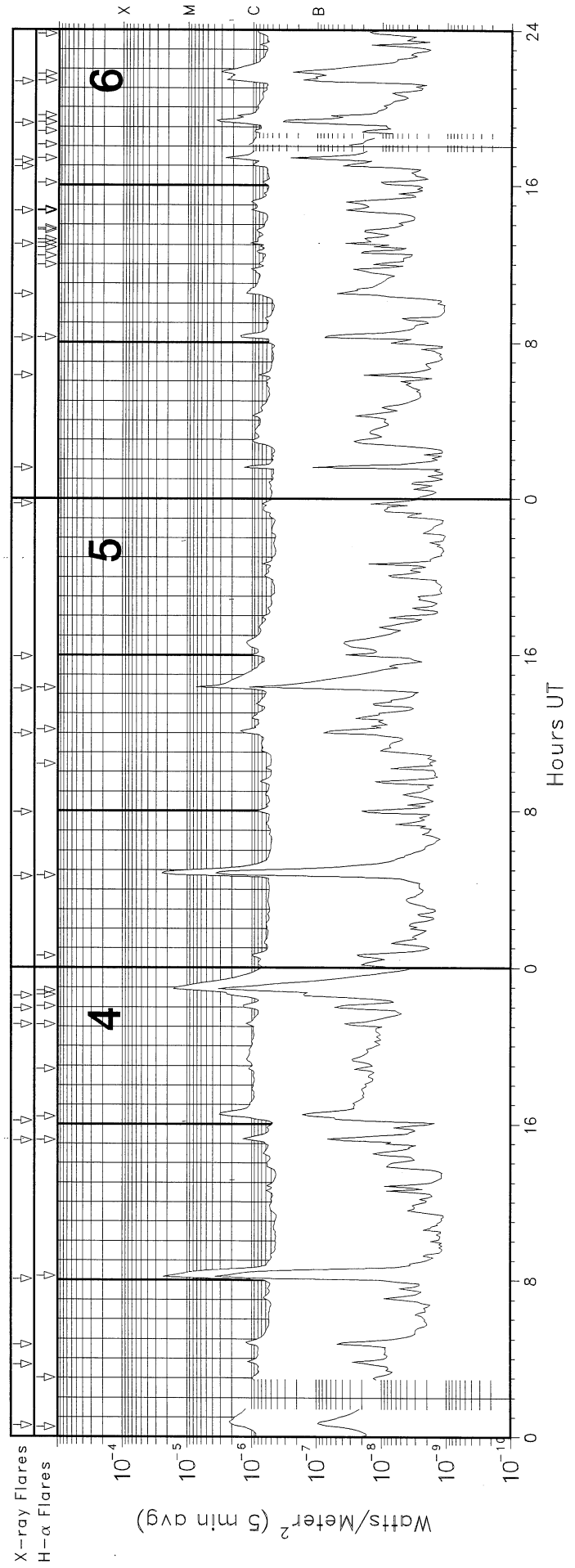
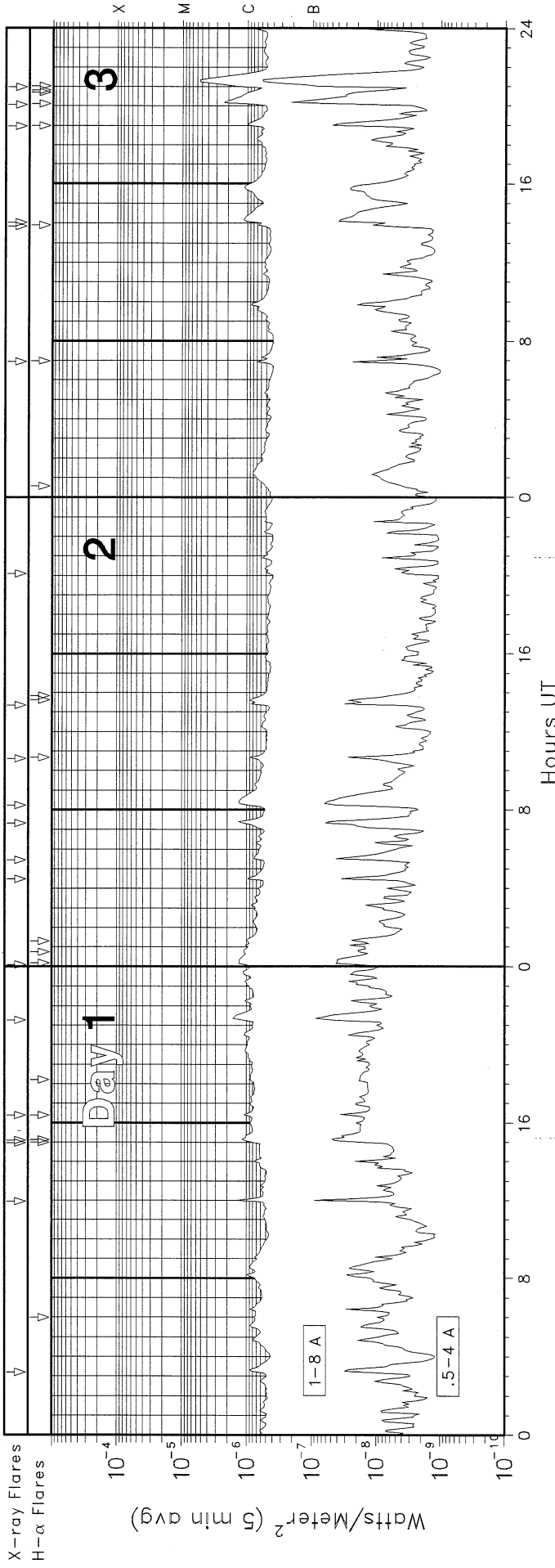
BERN = Berne	HUMN = Humain	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	IZMI = IZMIRAN	PEKG = Peking	TORN = Torun
CUBA = Havana	KISV = Kislovodsk	PALE = Palehua	TRST = Trieste
GORK = Gorky	KRAK = Krakow	PENT = Penticton	TYKW = Toyokawa
HIRA = Hiraïso	LEAR = Learmonth	POTS = Potsdam	UPIC = Upice
HUAN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

Explanation of Type Code:

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

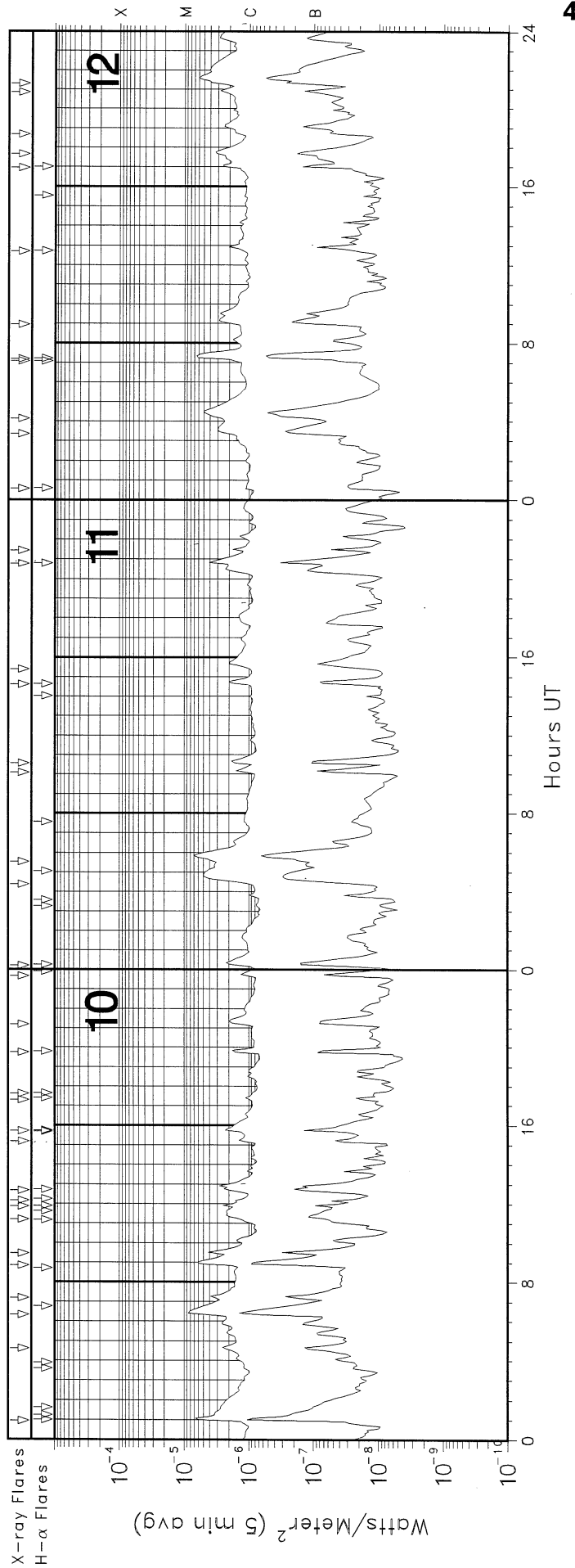
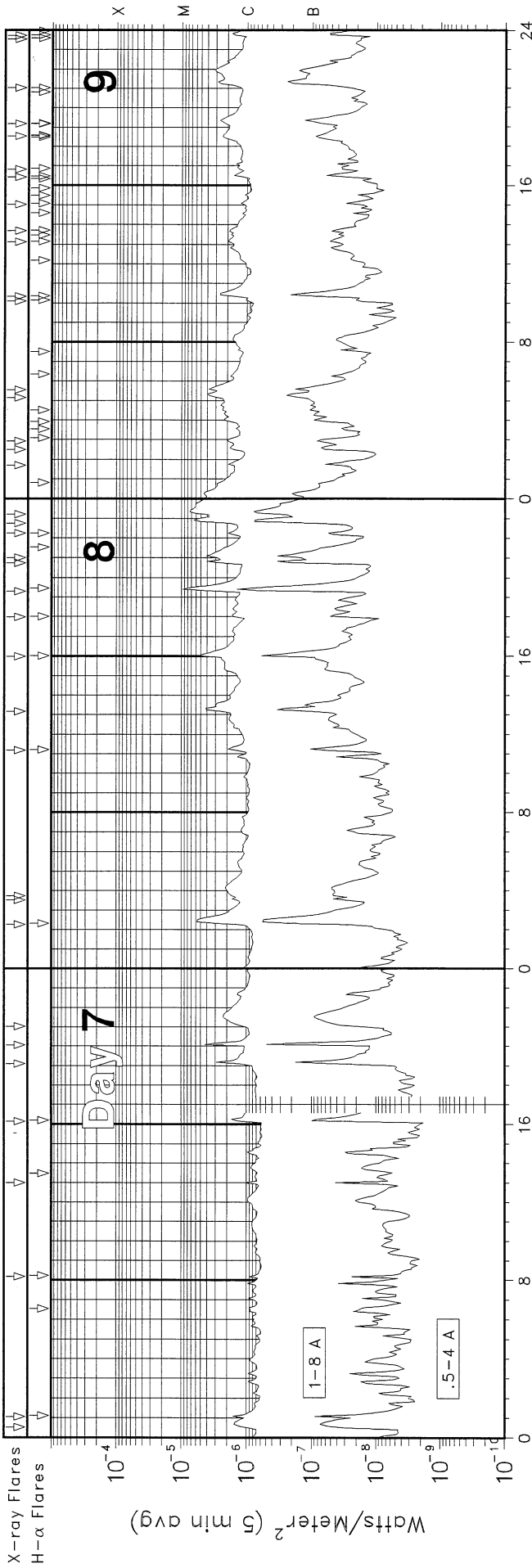
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; and Hiraïso, Japan 500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

GOES X-RAY DETECTOR June 2001

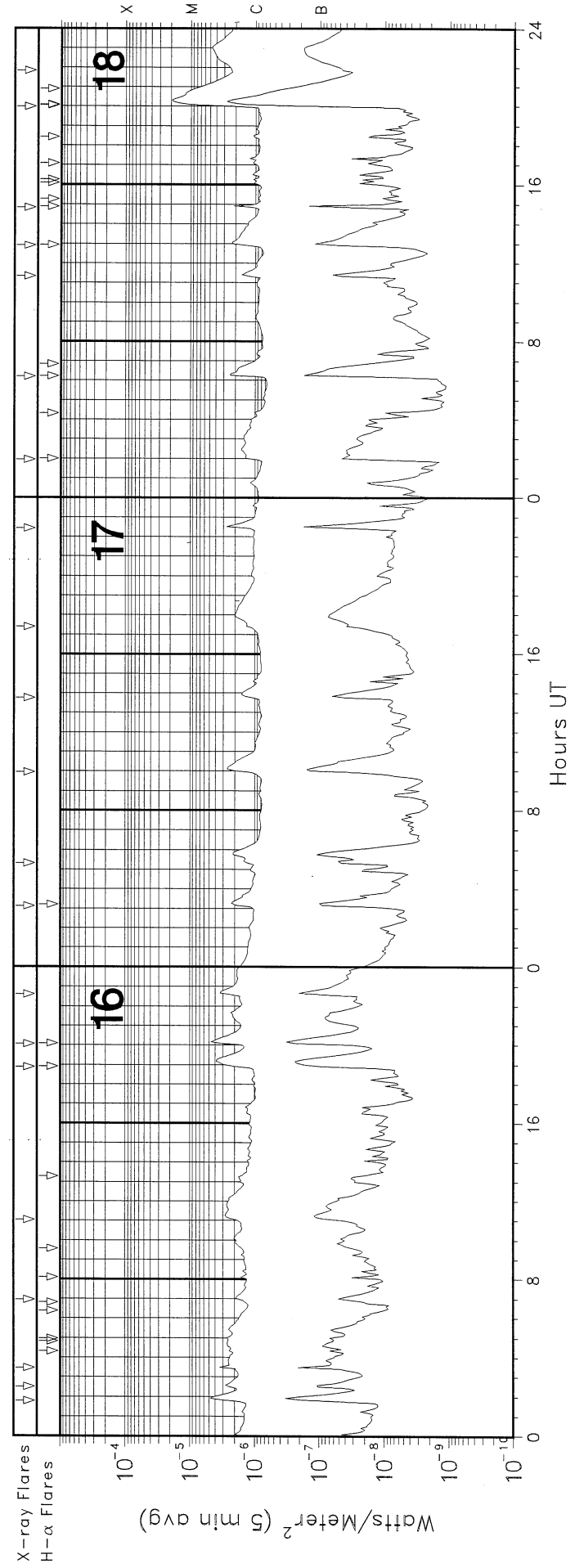
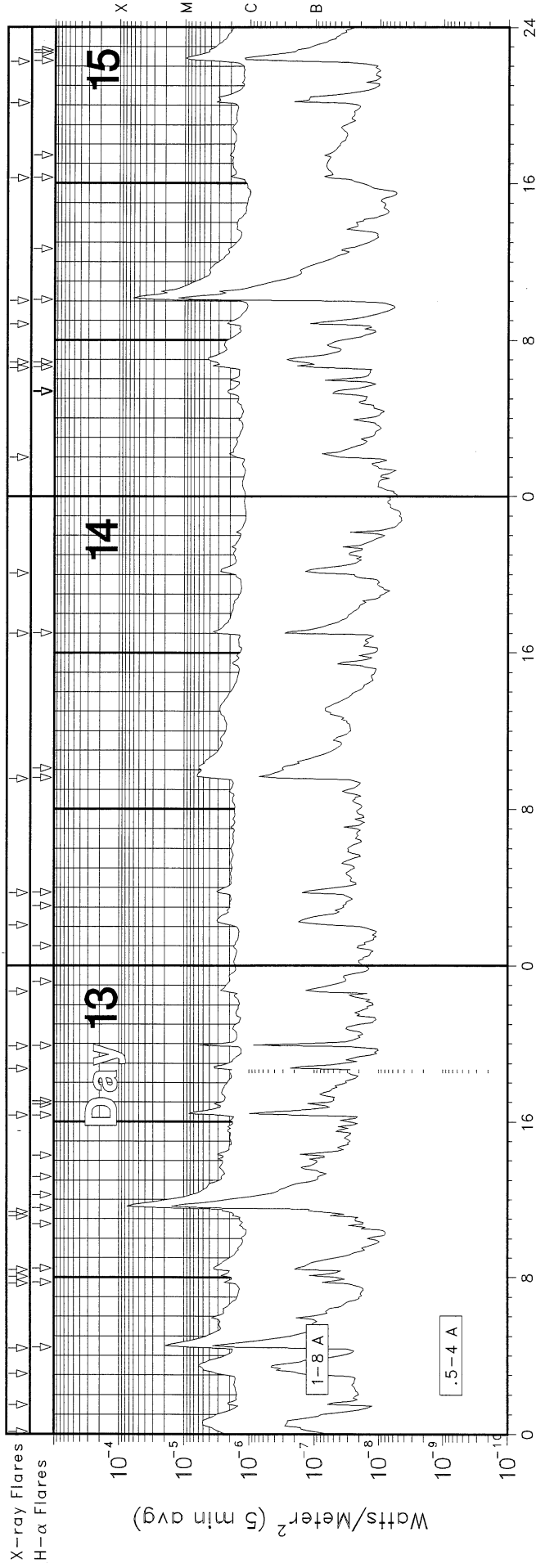


GOES X-RAY DETECTOR

June 2001

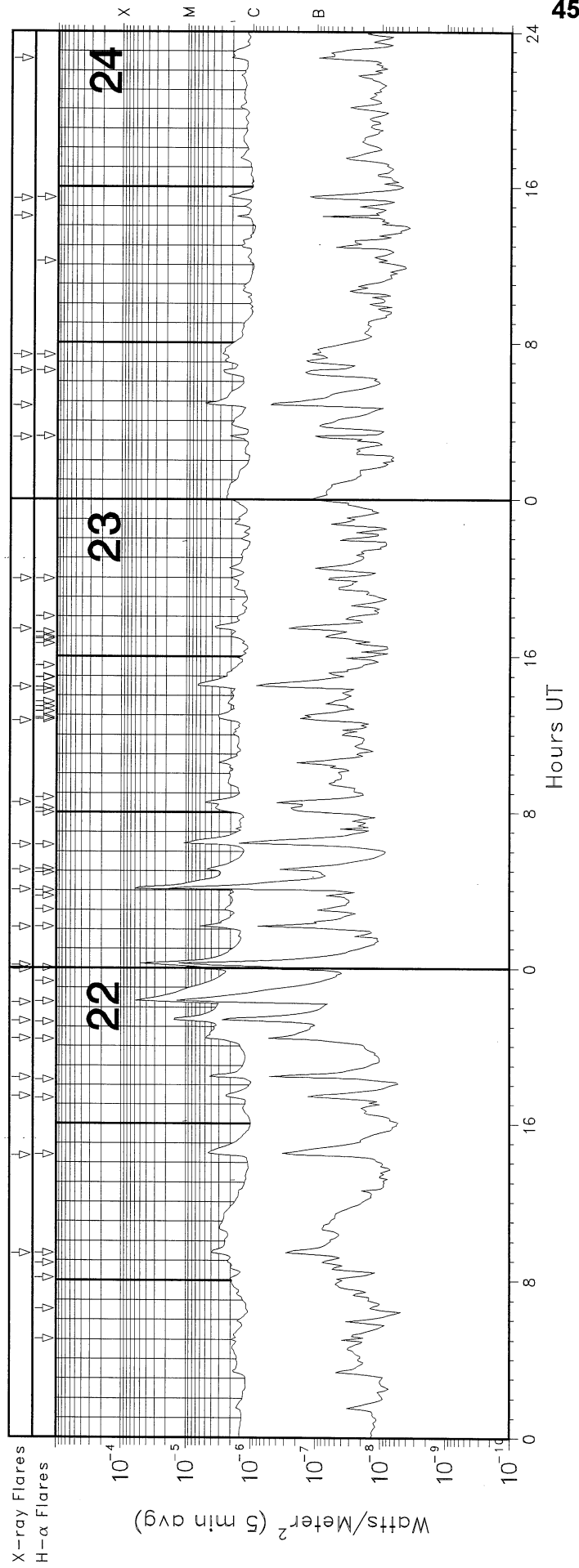
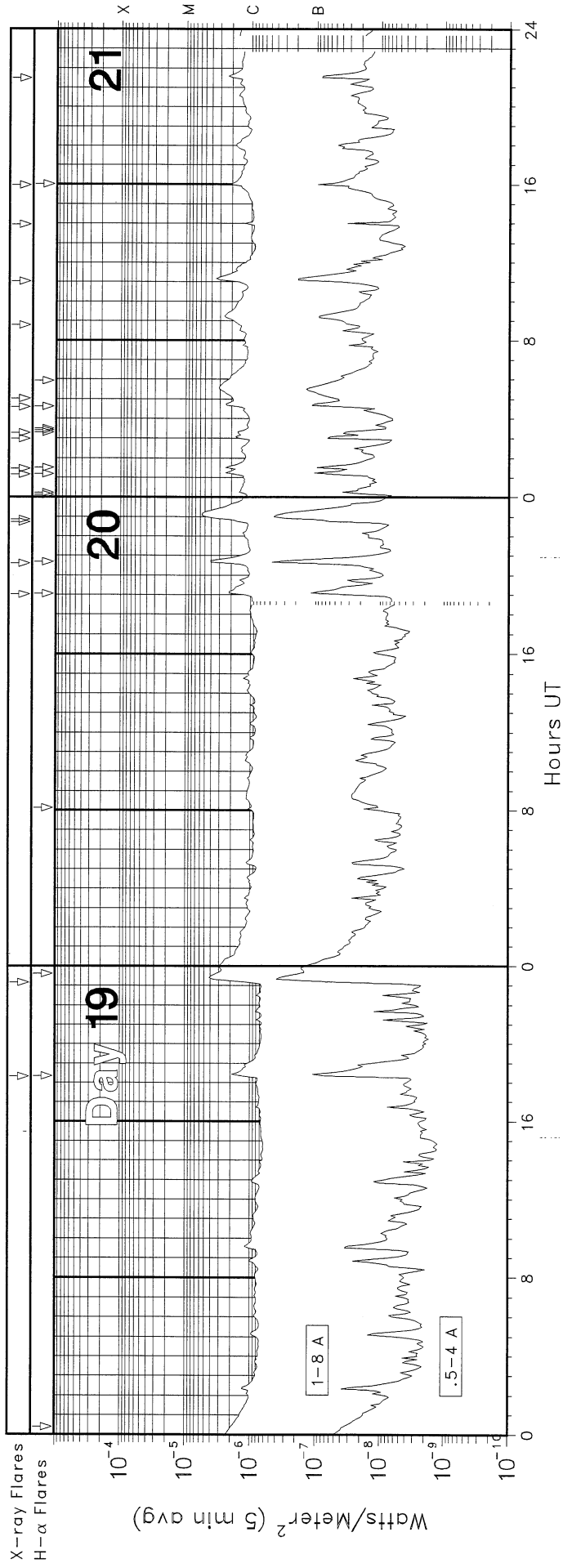


GOES X-RAY DETECTOR June 2001

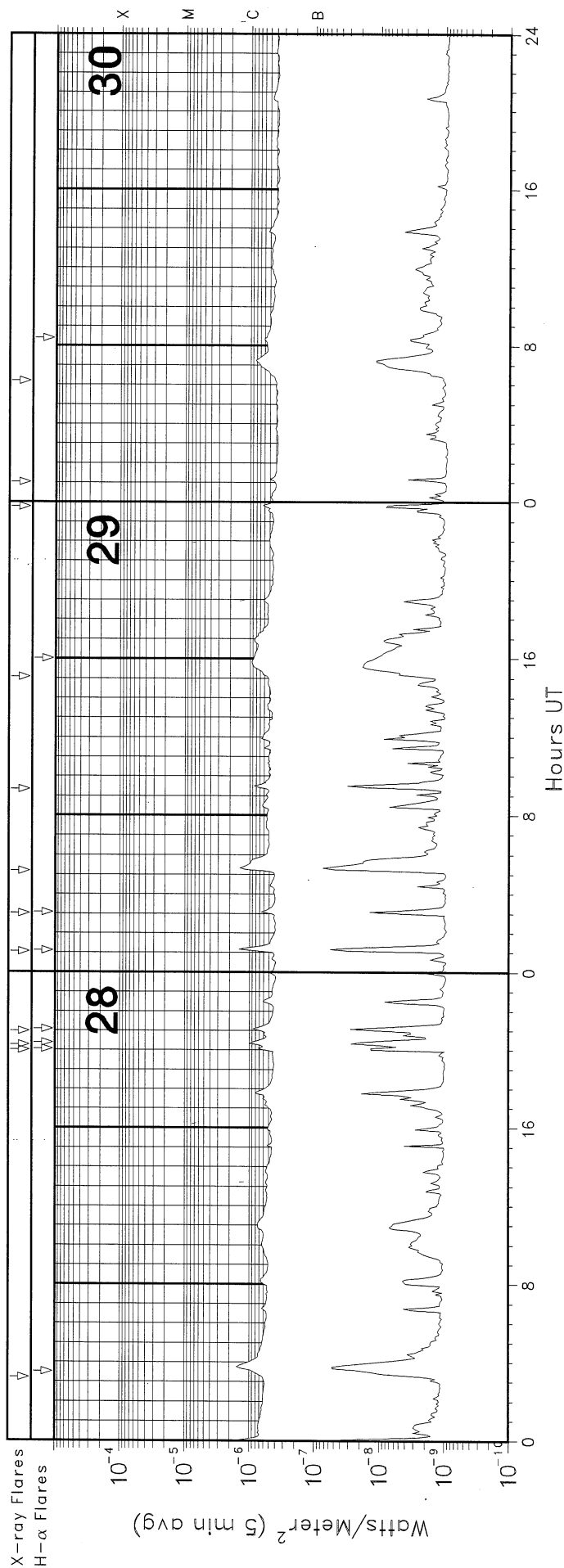
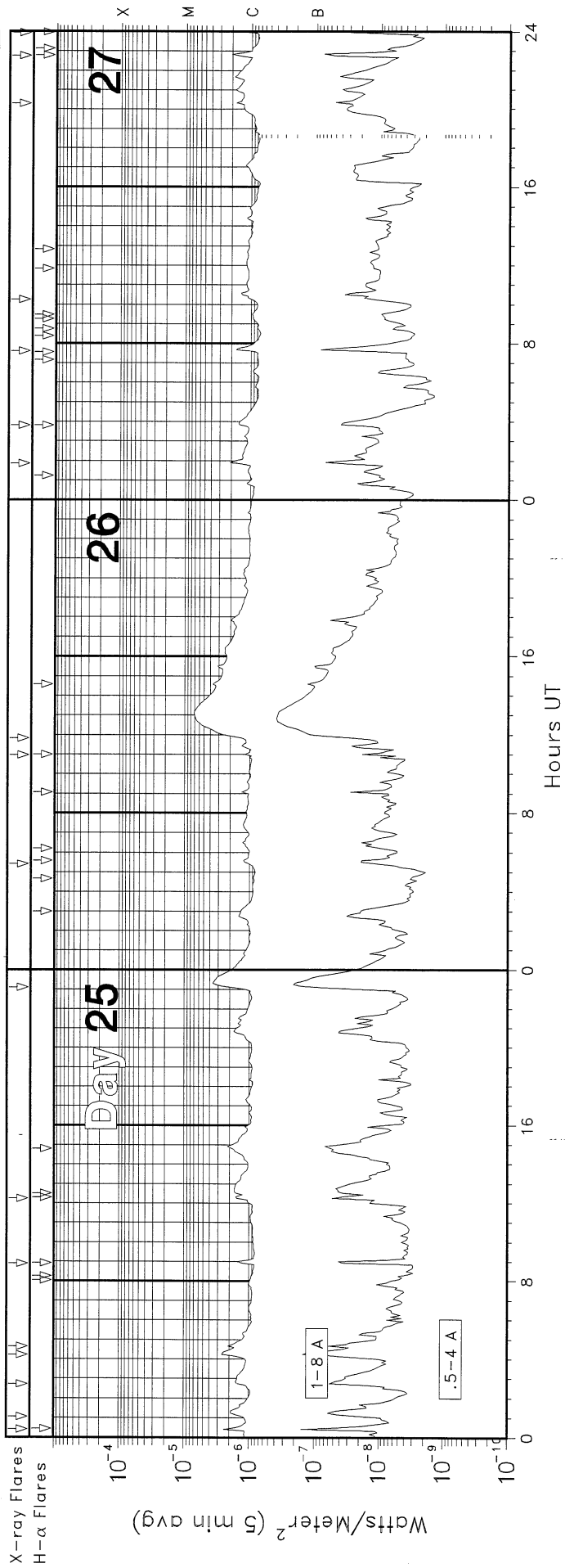


GOES X-RAY DETECTOR

June 2001



GOES X-RAY DETECTOR June 2001



GOES SOLAR X-RAY FLARES
 Preliminary Listing

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 Jun 01

June 2001

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region	Flux
01	0312	0321	0328				B9.0		7.7E-04
01	1157	1202	1206				C1.6		6.2E-04
01	1458	1502	1506	N18	E04	SF	B9.4	9475	3.8E-04
01	1506	1509	1512	S24	W57	SF	C1.4	9483	4.4E-04
01	1623	1628	1634	S24	W58	SF	C1.1	9483	6.7E-04
01	2116	2121	2137				C1.6		1.8E-03
02	0006	0019	0032	S08	E35	SF	C1.3	9484	1.9E-03
02	0429	0433	0436				C1.2		4.0E-04
02	0528	0532	0549				B7.9		9.2E-04
02	0720	0725	0729				C1.5		6.9E-04
02	0815	0825	0844				C1.3		2.1E-03
02	1037	1040	1043	S08	E30	SF	C1.0	9484	3.1E-04
02	1322	1327	1331				B9.4		4.0E-04
02	2006	2009	2013				B5.6		2.1E-04
03	0656	0659	0701	S16	E70	SF	C1.1	9488	2.3E-04
03	1351	1355	1358	S19	E73	SF	B7.8	9488	2.7E-04
03	1403	1409	1431				C1.1		1.8E-03
03	1858	1905	1913	S06	E10	SF	C1.0	9484	8.3E-04
03	2004	2011	2028	S06	E09	SF	C2.4	9484	2.4E-03
03	2059	2122	2130	S19	E62	1F	C5.6	9488	6.6E-03
04	0034	0046	0106	N27	W20	SF	C2.2	9486	3.7E-03
04	0340	0351	0357				C1.2		9.9E-04
04	0441	0449	0457				C1.2		1.0E-03
04	0803	0812	0820	S18	E57	1F	M2.4	9488	1.5E-02
04	1510	1515	1523	S19	E52	SF	C1.4	9488	9.1E-04
04	1611	1633	1644	N24	W59	SF	C3.2	9474	3.8E-03
04	2106	2110	2113	S05	W04	SF	C1.3	9484	5.2E-04
04	2156	2204	2211	N28	W34	SF	C1.4	9486	1.1E-03
04	2234	2259	2309				M1.7	9484	1.7E-02
05	0441	0451	0501	S18	E44	2N	M2.5	9488	2.0E-02
05	0756	0801	0805				B9.3		4.3E-04
05	1158	1205	1212				C1.6		1.1E-03
05	1416	1421	1424	S05	W15	SN	C9.4	9484	2.4E-03
05	1556	1601	1606				C1.1		5.6E-04
05	2345	2348	2351				B7.9		2.6E-04
06	0134	0137	0142				C1.7		6.2E-04
06	0618	0622	0627				B8.1		4.0E-04
06	0813	0817	0827	S19	E22	SF	C2.0	9488	1.2E-03
06	1027	1033	1050				C1.3		1.5E-03
06	1302	1306	1310	S19	E21	SF	C1.1	9488	4.7E-04
06	1443	1446	1448	S04	W26	SF	C1.1	9484	3.1E-04
06	1658	1704	1713				C1.0		8.4E-04
06	1717	1728	1731	N23	W80	1F	C3.0	9475	1.5E-03
06	1910	1920	1924	N23	W84	2F	C4.7	9474	2.4E-03
06	2119	2153	2201	S18	E21	SF	C3.3	9488	5.6E-03
07	0031	0042	0059				C1.5		2.3E-03
07	0103	0106	0109				C1.9		5.4E-04
07	0810	0813	0815	S17	E14	SF	C1.1	9488	2.7E-04
07	1259	1303	1305				C1.3		3.7E-04
07	1609	1614	1617	S06	W44	SF	C2.5	9484	7.7E-04
07	1905	1910	1914				C3.8		1.2E-03
07	2003	2007	2011				C6.4		1.7E-03
07	2102	2136	2142				C2.3		4.4E-03
08	0217	0228	0242	S17	E04	1N	C6.0	9488	6.5E-03
08	0332	0336	0340				C1.5		7.4E-04
08	0345	0412	0414				C2.1		3.3E-03
08	1111	1117	1124	S08	W25	SF	C1.9		1.3E-03
08	1310	1320	1326				C4.5		3.5E-03
08	1558	1603	1607	S09	W24	SF	C7.2	9494	2.7E-03
08	1759	1802	1816	N04	E54	SF	C1.8	9493	1.6E-03

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region	Flux
08	1918	1927	1934	S09	W30	SF	M1.0	9494	6.1E-03
08	2044	2050	2054				C5.1		1.9E-03
08	2101	2108	2111				C4.4		2.2E-03
08	2214	2216	2219	S09	W30	SF	C1.9	9494	5.7E-04
08	2245	2256	2307				C6.5		6.2E-03
08	2312	2324	2350				C7.5		1.5E-02
09	0142	0145	0149				C2.1		7.6E-04
09	0230	0234	0246				C1.9		1.7E-03
09	0255	0258	0302				C2.3		8.3E-04
09	0509	0516	0521				C3.7		2.5E-03
09	0533	0537	0541				C3.9		1.7E-03
09	1006	1009	1013				C1.1		4.3E-04
09	1020	1029	1037				C2.9		2.4E-03
09	1020	1029	1038				C2.8		2.4E-03
09	1308	1312	1316	S08	W38	SF	C2.0	9494	9.3E-04
09	1342	1343	1345	S16	W14	SF	C2.0	9488	3.5E-04
09	1502	1507	1510	S07	W39	SF	C1.3	9494	5.7E-04
09	1625	1631	1643	N16	E00	SF	C1.6	9489	1.5E-03
09	1650	1655	1701	S06	W41	SF	C1.4	9494	9.0E-04
09	1832	1834	1836	S08	W43	SF	C2.6	9494	6.0E-04
09	1910	1921	1929	S07	W40	1F	C2.6	9494	2.7E-03
09	2101	2119	2215	S08	W45	SF	C3.3	9494	1.1E-02
09	2332	2335	2337	S07	W39	SF	C1.2	9494	3.5E-04
09	2344	2350	2356	N06	E38	SF	C1.8	9493	1.2E-03
10	0057	0104	0108	S08	W42	SF	C9.7	9494	3.7E-03
10	0436	0440	0445				C2.7		1.4E-03
10	0620	0626	0645				C8.7		1.0E-02
10	0711	0716	0719				C4.2		1.8E-03
10	0851	0902	0913	S08	W50	SF	C6.3	9494	6.5E-03
10	0928	0932	0936				C4.4		1.8E-03
10	1112	1126	1150	S07	W51	SF	C2.2	9494	4.4E-03
10	1152	1156	1159	N22	W26	SF	C2.7	9487	9.7E-04
10	1210	1214	1215	S12	E34	SF	C1.9	9497	4.8E-04
10	1241	1247	1253	S07	W51	SF	C2.4	9494	1.6E-03
10	1511	1517	1526				C1.4		1.2E-03
10	1543	1548	1554	S07	W55	SF	C2.5	9494	1.4E-03
10	1718	1726	1730	N18	W13	SF	C1.1	9489	7.3E-04
10	1737	1739	1740	S08	W49	SF	C1.0	9494	1.7E-04
10	1944	1949	1953	N21	W30	SF	C2.4	9487	9.3E-04
10	2111	2123	2134	N28	W26	SF	C2.0	9487	2.4E-03
10	2341	2346	2353				C1.3		8.9E-04
11	0012	0020	0036	S05	W59	SF	C2.3	9494	2.6E-03
11	0423	0451	0532				C5.0		1.4E-02
11	0533	0552	0611				C7.1		1.1E-02
11	1006	1010	1017				C1.6		9.3E-04
11	1034	1040	1047				C2.0		1.3E-03
11	1436	1446	1453	N19	W23	SF	C2.0	9489	1.7E-03
11	1524	1545	1600				C2.1		3.3E-03
11	2047	2052	2059	S17	W41	SF	C4.3	9488	2.5E-03
11	2127	2130	2134				C1.9		6.9E-04
12	0035	0036	0039	N21	W03	SF	C1.2	9492	2.7E-04
12	0321	0334	0402				C3.0		6.6E-03
12	0408	0430	0441				C5.1		8.0E-03
12	0704	0707	0711	N25	W47	SF	C1.7	9487	6.9E-04
12	0711	0719	0733	S15	W52	1N	C6.7	9488	6.9E-03
12	0857	0933	0940				C3.2		6.5E-03
12	1242	1257	1303	N21	W50	SF	C2.1	9487	2.0E-03
12	1658	1704	1710	S07	W79	SF	C2.9	9494	1.7E-03
12	1739	1745	1752				C3.3		2.4E-03
12	1840	1909	1924				C2.5		5.1E-03
12	2051	2056	2101				C2.8		1.6E-03
12	2118	2138	2153				C6.0		1.0E-02

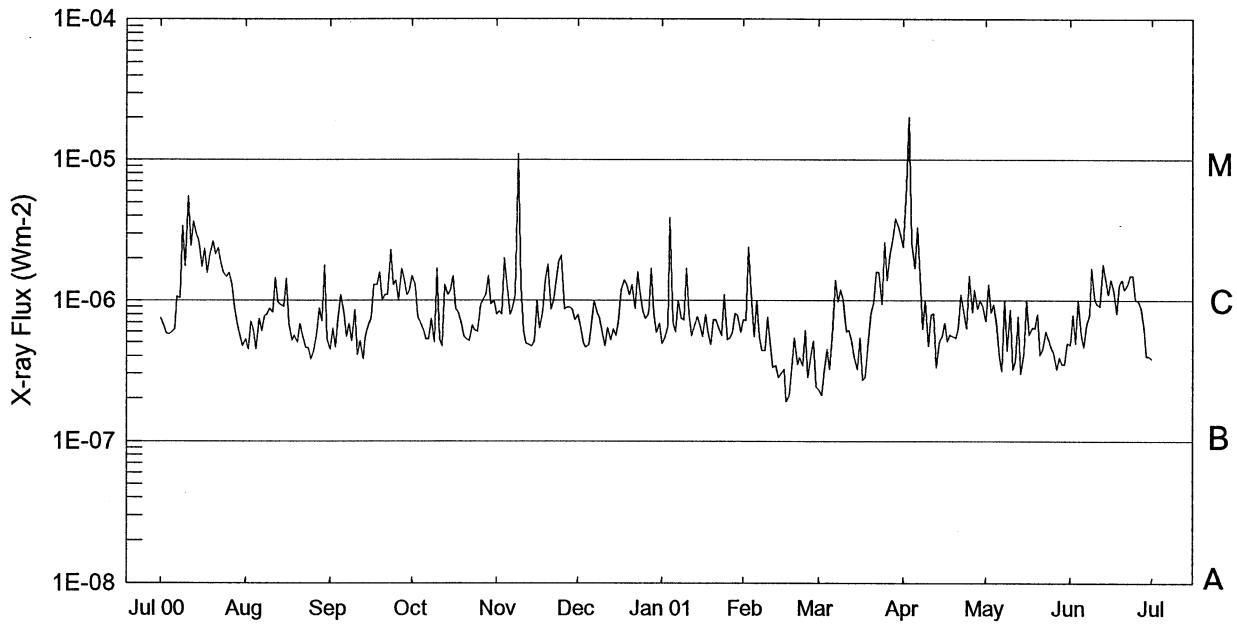
Jun 01

GOES SOLAR X-RAY FLARES
Preliminary Listing
June 2001

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region	Flux
13	0007	0030				C5.3		1.1E-02
13	0129	0134				C2.4		1.3E-03
13	0303	0330				C6.2		1.1E-02
13	0422	0433	0444	S25	E74 1F	M2.0	9502	1.7E-02
13	0742	0747	0753	N14	E80 SF	C2.4		1.4E-03
13	0802	0806	0811			C2.8		1.3E-03
13	0823	0827	0842	N20	W48 SF	C3.7	9489	3.6E-03
13	1109	1115	1117			C1.8		8.2E-04
13	1122	1142	1151	S29	E66 1N	M7.8	9502	5.3E-02
13	1620	1628	1635	N20	W49 SF	C9.1	9502	5.6E-03
13	1843	1849	1855			C3.9		2.3E-03
13	1952	1957	1959	N20	W52 SF	C7.6	9489	1.9E-03
13	2241	2247	2255			C2.9		2.1E-03
14	0205	0219	0239			C3.2		5.5E-03
14	0344	0349	0358	N19	W55 SF	C3.4	9489	2.5E-03
14	0933	0943	1037	N19	W58 SF	C6.5	9489	2.0E-02
14	1659	1703	1713	N03	W45 SF	C4.4	9495	2.7E-03
14	2004	2014	2024			C2.9		3.0E-03
15	0159	0210	0218			C2.1		2.0E-03
15	0634	0641	0650	S26	E48 SF	C3.8	9502	2.8E-03
15	0651	0704	0714	N21	W45 SF	C4.5	9492	5.5E-03
15	0849	0853	0857			C2.6		1.1E-03
15	1001	1013	1020	S26	E41 1N	M6.3	9502	4.2E-02
15	1615	1620	1626	S16	E18 SF	C2.2	9501	1.2E-03
15	2007	2012	2030			C3.7		4.0E-03
15	2214	2226	2239	N18	E72 1F	C9.9	9506	1.1E-02
16	0146	0158	0206			C5.0		4.4E-03
16	0230	0247	0252			C2.2		3.2E-03
16	0328	0331	0333			C4.4		1.0E-03
16	0657	0708	0721	N07	W64 SF	C1.9	9495	2.5E-03
16	1103	1118	1215			C2.8		1.1E-02
16	1853	1913	1930	N21	E50 SF	C3.9	9505	6.9E-03
16	2003	2010	2024	S29	E25 SF	C5.1	9502	4.8E-03
16	2236	2242	2253			C3.4		3.1E-03
17	0307	0318	0332	N14	E38 SF	C2.2	9503	2.9E-03
17	0520	0548	0602			C2.1		4.3E-03
17	0957	1009	1035			C2.6		5.0E-03
17	1345	1356	1415			C1.6		2.5E-03
17	1724	1802	1842			C2.0		7.9E-03
17	2226	2231	2239			C2.9		1.7E-03
18	0157	0230	0333	N19	E46 SF	C1.6	9506	8.2E-03
18	0611	0619	0641	N09	W15 1F	C2.8	9500	3.5E-03
18	1120	1125	1135			C1.8		1.3E-03
18	1254	1304	1334	N20	E38 SF	C2.3	9506	4.5E-03
18	1451	1455	1457	N19	E19 SF	C4.2	9503	7.3E-04
18	1959	2021	2050	N18	E34 2N	M2.0	9506	4.0E-02
18	2150	2301	2324			C4.7		2.1E-02
19	1819	1826	1836	N11	W01 SF	C2.0	9504	1.6E-03
19	2310	2326	0019	S10	W37 SF	C4.2	9501	1.2E-02
20	1901	1909	1928	N08	W17 SF	C2.3	9504	3.0E-03
20	2036	2044	2052	N15	W19 1F	C4.4	9503	3.3E-03
20	2244	2248	2251			C2.1		6.9E-04
20	2251	2309	2324			C5.7		8.9E-03
21	0109	0117	0123	N16	E09 SF	C2.5	9506	1.7E-03
21	0127	0132	0137	N06	W15 SF	C2.4	9504	1.3E-03
21	0259	0303	0312			C1.8		1.3E-03
21	0316	0319	0322	N06	W22 SF	C1.8	9504	6.0E-04
21	0436	0446	0456	N09	W22 SF	C2.5	9504	2.6E-03
21	0501	0537	0609			C3.1		1.0E-02
21	0848	0917	0939			C2.5		6.4E-03

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region	Flux
21	1102	1110	1122			C3.5		3.5E-03
21	1358	1401	1404			C1.4		4.3E-04
21	1558	1602	1607	N13	W24 SF	C2.3	9503	1.1E-03
21	2129	2135	2144			C2.4		1.9E-03
22	0921	0929	0936	N21	W35 SF	C4.2	9503	3.3E-03
22	1422	1433	1447	S07	W40 1F	C4.5	9509	5.2E-03
22	1724	1729	1734	S07	W42 SF	C2.6	9509	1.4E-03
22	1822	1828	1832	N10	E29 SN	C6.0	9511	2.1E-03
22	2023	2028	2034	N09	E28 SF	C5.5	9511	3.1E-03
22	2117	2122	2129	N10	E27 1N	M1.7	9511	9.5E-03
22	2214	2222	2231	N14	W47 1N	M6.2	9503	3.9E-02
22	2357	0001	0006	N09	E25 SF	M1.1	9511	4.0E-03
23	0010	0015	0020	N09	E24 1N	M5.6	9511	2.1E-02
23	0207	0213	0215	N08	E24 SF	C8.0	9511	2.5E-03
23	0402	0408	0411	N10	E23 1B	X1.2	9511	2.6E-02
23	0504	0509	0511	N11	E23 SF	C6.2	9511	2.0E-03
23	0620	0626	0634	N10	E21 1N	M1.3	9511	6.3E-03
23	0830	0834	0836			C6.8	9511	1.9E-03
23	1243	1304	1306	N09	E18 SF	C4.0	9511	3.9E-03
23	1425	1433	1446	N09	E17 SF	C7.0	9511	6.8E-03
23	1722	1728	1738	N10	E15 SF	C3.6	9511	3.1E-03
23	1956	1959	2005	N11	E13 SF	C2.2	9511	1.1E-03
24	0310	0314	0317	N10	E13 SF	C2.9	9511	9.0E-04
24	0446	0455	0501			C6.1		3.6E-03
24	0632	0635	0637	N10	E11 SF	C3.9	9511	9.6E-04
24	0722	0729	0735	N18	W35 SF	C3.1	9506	2.1E-03
24	1429	1432	1434			C2.0		5.1E-04
24	1524	1532	1541	N13	W64 SF	C2.3	9503	2.1E-03
24	2237	2242	2302			C2.2		2.9E-03
25	0024	0027	0030	N17	W75 SF	C3.1	9503	8.2E-04
25	0103	0120	0129			C1.9		2.5E-03
25	0242	0250	0319			C1.6		3.3E-03
25	0413	0418	0426			C2.7		1.9E-03
25	0439	0441	0445			C2.1		7.3E-04
25	0853	0901	0905	S15	W49 SF	C1.6		9.5E-04
25	1214	1219	1223	S13	W54 SF	C1.9		8.6E-04
25	2306	2323	2350			C3.5		8.0E-03
26	0525	0537	0543	N24	E33 SF	C1.2	9513	1.2E-03
26	1059	1100	1103	N18	E20 SF	C1.2	9514	2.9E-04
26	1150	1312	1402			C7.1		4.1E-02
27	0151	0158	0203			C2.1		1.3E-03
27	0348	0354	0407	S20	W41 SF	C1.5	9512	1.7E-03
27	0737	0743	0749	S48	E52 SF	C1.8	9518	1.1E-03
27	1016	1034	1039			C1.6		1.7E-03
27	2018	2021	2024			C1.8		6.0E-04
27	2246	2250	2255	S21	W48 SF	C2.2	9512	1.0E-03
27	2356	0000	0006	N12	W42 SF	C1.8	9511	8.0E-04
28	0314	0345	0401	S21	W52 SF	C1.5	9512	2.9E-03
28	2000	2004	2014	S28	W62 SF	B7.7	9512	5.6E-04
28	2017	2022	2030	N02	W52 SF	C1.0	9511	7.0E-04
28	2058	2106	2112	N01	W52 SF	B8.9	9511	6.3E-04
29	0104	0110	0118			C1.5		9.4E-04
29	0301	0305	0312			B7.0		3.9E-04
29	0511	0521	0538			C1.4		1.7E-03
29	0920	0932	0934			C1.0		5.9E-04
29	1504	1550	1719	S50	E39 SF	B9.5	9523	6.4E-03
29	2346	2349	2353			B7.3		2.7E-04
30	0102	0110	0112			B5.7		2.7E-04
30	0612	0714	0731			B8.7		2.9E-03

Preliminary GOES Satellite Daily X-Ray Background Jul 2000 - Jun 2001



Day	Jul 00	Aug	Sep	Oct	Nov	Dec	Jan 01	Feb	Mar	Apr	May	Jun
1	B7.4	B5.2	B4.5	C1.5	B8.0	B8.0	B4.9	B7.3	B2.3	C2.4	B7.1	B4.8
2	B6.7	B4.4	B6.3	C1.3	B8.4	B8.4	B5.4	B7.2	B2.1	C6.5	C1.3	B7.9
3	B5.7	B7.0	B4.6	B7.7	B8.0	B8.0	B6.5	C2.4	B3.2	M2.0	B8.2	B4.9
4	B5.7	B6.0	B7.5	B7.0	C2.0	C2.0	C3.9	B9.8	B4.5	C2.6	B9.3	C1.0
5	B5.9	B4.4	C1.1	B6.1	C1.2	C1.2	B6.9	B5.5	B3.2	C1.7	B7.1	B5.6
6	B6.2	B7.4	B8.2	B5.3	B8.0	B8.0	B6.0	C1.0	B5.5	C3.3	B4.0	B4.6
7	C1.0	B6.0	B5.5	B5.3	B8.9	B8.9	C1.0	B5.5	C1.4	C1.5	B3.1	B6.6
8	C1.0	B7.7	B6.8	B7.4	C1.1	C1.1	B7.4	B4.4	B9.8	B6.2	C1.0	B7.9
9	C3.3	B7.9	B5.1	B5.0	M1.1	M1.1	B7.3	B4.4	C1.2	C1.0	B4.4	C1.7
10	C1.7	B8.7	B8.6	C1.7	C1.3	C1.3	C1.7	B7.6	C1.0	B4.7	B8.6	C1.0
11	C5.5	B8.2	B4.1	B5.3	B6.1	B6.1	B8.0	B5.0	B6.0	B7.9	B3.2	B9.3
12	C2.4	C1.4	B5.1	B4.7	B4.9	B4.9	B5.6	B3.3	B6.1	B8.1	B3.7	B9.0
13	C3.6	B9.7	B3.8	C1.3	B4.8	B4.8	B6.7	B3.4	B5.1	B3.3	B7.7	C1.8
14	C2.9	B9.3	B5.5	C1.1	B4.7	B4.7	B7.7	B2.8	B3.9	B5.1	B3.0	C1.5
15	C2.6	B9.0	B6.7	C1.2	B5.1	B5.1	B6.7	B3.0	B3.2	B5.5	B4.2	C1.1
16	C1.7	C1.4	B7.4	C1.5	B9.9	B9.9	B5.5	B3.2	B5.4	B6.9	C1.0	C1.4
17	C2.3	B6.7	C1.3	B8.8	B6.3	B6.3	B7.9	B1.9	B2.7	B5.1	B5.7	C1.2
18	C1.5	B5.1	C1.3	B8.2	B8.3	B8.3	B5.8	B2.1	B2.8	B5.7	B6.4	B8.1
19	C2.1	B5.5	C1.6	B6.8	C1.4	C1.4	B4.8	B3.3	B5.2	B5.5	B6.3	C1.3
20	C2.6	B5.0	C1.0	B5.5	C1.8	C1.8	B7.3	B5.4	B8.2	B5.4	B8.0	C1.4
21	C2.1	B6.8	C1.1	B5.3	B8.7	B8.7	B7.3	B3.5	B9.6	B6.4	B4.1	C1.2
22	C2.3	B5.5	C1.1	B5.1	C1.0	C1.0	B6.2	B3.9	C1.6	C1.1	B4.5	C1.3
23	C1.8	B4.5	C2.3	B6.6	C1.4	C1.4	B5.6	B3.4	C1.6	B8.1	B6.0	C1.5
24	C1.5	B4.5	C1.3	B6.1	C1.9	C1.9	C1.1	B6.1	B9.4	B6.3	B5.3	C1.5
25	C1.4	B3.8	C1.4	B6.0	C2.1	C2.1	B5.2	B2.8	C2.6	C1.5	B4.6	C1.0
26	C1.5	B4.3	C1.0	B9.4	B8.7	B8.7	B5.4	B4.1	C1.4	B8.2	B4.2	C1.0
27	C1.3	B5.8	C1.7	C1.0	B8.9	B8.9	B5.9	B5.1	C2.1	C1.2	B3.2	B8.8
28	B9.2	B8.8	C1.4	C1.1	B8.9	B8.9	B8.1	B2.4	C2.8	B8.8	B3.9	B6.5
29	B6.6	B7.1	C1.1	C1.5	B8.7	B8.7	B7.8		C3.8	C1.0	B3.5	B4.0
30	B5.5	C1.7	C1.2	B9.4	B7.3	B7.3	B5.9		C3.4	B9.0	B3.5	B4.0
31	B4.6	B5.2		C1.0			B7.4		C2.8		B4.9	

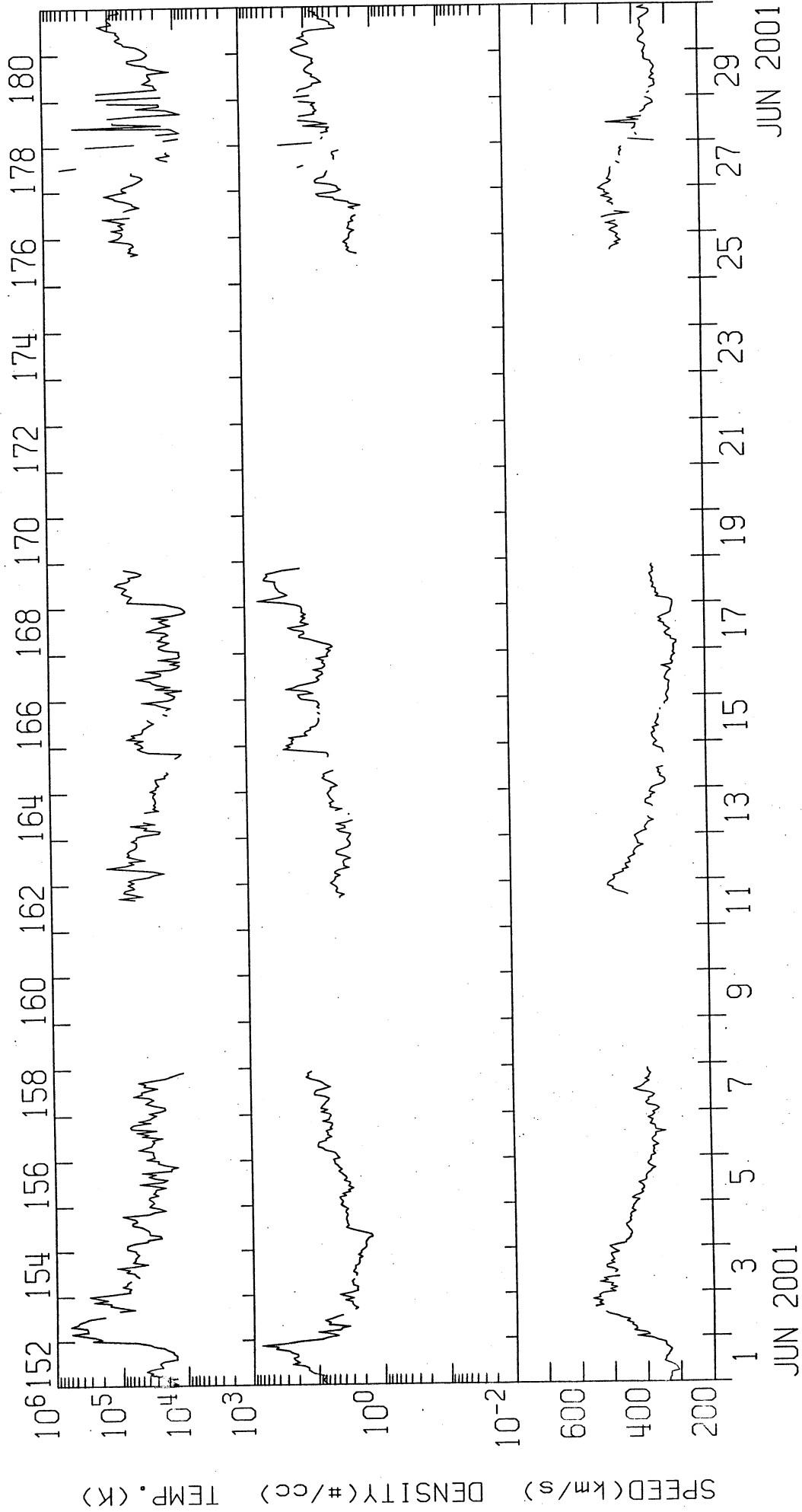
ACTIVE PROMINENCES AND FILAMENTS

JUNE 2001

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	1555	1615	N27	W63	05	30.8	3	06	0	0	E	HOLL	9474	
05	DSF	1335U	1103U	N05	E49	06	9.2		06	0	0	E	RAMY		
06	DSF	0310	0401	S22	E19	06	7.6	1	09	0	0	E	LEAR	9485	
09	DSF	0808U	2355U	S40	E20	06	11.0		12	0	0	E	LEAR		
10	DSF	0859U	0000U	N35	W25	06	8.4		14	0	0	E	LEAR		
10	DSF	2045	2238	N39	W30	06	8.4	2	10	0	0	E	HOLL		
12	DSF	0911U	2357U	S24	W21	06	10.8		19	0	0	E	LEAR		
12	DSF	1621U	0825U	S45	W28	06	10.3		05	0	0	E	SVTO		
13	DSF	0911U	2357U	S42	W20	06	11.7		16	0	0	E	LEAR		
13	DSF	1036U	0408U	N17	E18	06	14.8		12	0	0	E	SVTO		
13	DSF	1826U	1049U	N17	E15	06	14.9		11	0	0	E	RAMY		
16	DSF	0130U	1251U	S20	E36	06	18.8	3	08	0	0	E	HOLL	9502	
16	DSF	1925U	1109U	S27	W11	06	15.9		14	0	0	E	RAMY		
17	DSF	1732U	0356U	N30	E47	06	21.4		28	0	0	E	SVTO		
17	DSF	1925U	1109U	S27	W11	06	16.9		14	0	0	E	RAMY		
17	DSF	1957U	1252U	N42	E60	06	22.7		15	0	0	E	HOLL		
17	DSF	1957U	1252U	S27	W08	06	17.2		15	0	0	E	HOLL		
18	DSF	1959U	1128U	S10	E20	06	20.3		17	0	0	E	RAMY		
19	DSF	0905U	2342U	S05	W07	06	18.8		10	0	0	E	LEAR		
19	DSF	0905U	2342U	S09	W22	06	17.7		10	0	0	E	LEAR		
22	DSF	0916U	2344U	N34	W31	06	19.9		12	0	0	E	LEAR		
23	DSF	0920U	2350U	S35	W05	06	23.0		11	0	0	E	LEAR		
23	EPL	1300	1325	N20	E90	06	30.4	1		0	0	E	SVTO		
25	DSF	1627U	1145U	S28	E13	06	26.7		20	0	0	E	RAMY		
26	EPL	1404	1511	S37	E90	07	3.8	3		9	9	E	SVTO		
26	DSF	2036U	1050U	N23	W50	06	23.0		22	0	0	E	RAMY		
27	DSF	0127U	1312U	N23	E54	07	1.2		20	0	0	E	HOLL		
27	DSF	0902U	1009	N36	W50	06	23.4	3	08	0	0	E	SVTO		
27	DSF	0925U	2345U	N35	W55	06	23.0		10	0	0	E	LEAR		
30	DSF	0539	0751	N31	W19	06	28.7	3	08	9	9	E	SVTO		
30	DSF	0917U	2346U	N14	E34	07	2.9		05	0	0	E	LEAR		

IMP 8 SOLAR WIND PLASMA
JUNE 2001

MIT/CSR IMP 8 PLASMA PARAMETERS



JUN 2001

IMP 8 MIT ONE-HOUR AVERAGES

IMP 8