

OCTOBER 2001 NUMBER 686 - Part II

Solar-Geophysical Data comprehensive reports



Data for April 2001 and Miscellaneous
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NATIONAL ENVIRONMENTAL SATELLITE,
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NATIONAL GEOPHYSICAL
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Number 686

(Issued in Two Parts)

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H α SOLAR FLARES

APRIL 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	URUM	01	0248	0256	0304	N14	E45	9411	04	4.5	16	1F		C		321	5.0	E	
0002	LEAR	01	0349	0350	0354	S12	W78	9389	03	26.4	5	SF		4	E	31			
0003	LEAR	01	0404	0408	0415	N17	W67	9390	03	27.2	11	SF		4	E	18			
0004	LEAR	01	0416	0418	0433	N17	W67	9390	03	27.2	17	SF		4	E	46			
0005	LEAR	01	0441	0445	0504	N18	W66	9390	03	27.3	23	SF		4	E	45		FU	
0006	LEAR	01	0529	0529	0538	S05	E05	9404	04	1.6	9	SF		4	E	26		F	
0007		01	07101	07112	0720	S12	W80	9389	03	26.4	10	SF				27			
	LEAR	01	0710	0713	0722	S12	W80	9389	03	26.4	12	SF		4	E	27			
	KANZ	01	0711	0711	0718	S11	W81	9389	03	26.3	7	SF		2	E				
0008		01	07444	07541	0803	S05	E04	9404	04	1.6	19	SF				44	0.7	E	
	KANZ	01	0744	0754	0806	S06	E03	9404	04	1.5	22	SF		2	E				
	LEAR	01	0744	0754	0807	S05	E04	9404	04	1.6	23	SF		4	E	23			
	URUM	01	0748	0755	0757	S05	E04	9404	04	1.6	9	SN			C	64	0.7	E	
0009		01	07471	07501	0754	S12	W80	9389	03	26.4	7	SF				27			
	LEAR	01	0747	0750	0754	S12	W81	9389	03	26.3	7	SF		4	E	27			
	KANZ	01	0748	0751	0753	S11	W80	9389	03	26.4	5	SF		2	E				
0010	URUM	01	0751E	0751	0755	N25	E22	9406	04	3.0	4D	1N			C	193	2.5	EG	
0011	SVTO	01	0955	1006	1009	N19	W34	9393	03	29.9	14	SF		3	E	12			
		01	1023		1048	No Flare Patrol													
0012		01	1117	1121	1156	N16	W49	9393	03	28.8	39	SF				43		F	
	RAMY	01	1117	1121	1201	N17	W50	9393	03	28.8	44	SF		3	E	43		F	
	KANZ	01	1122E	1122U	1152	N15	W48	9393	03	28.9	30D	SF		2	E				
0013		01	1135	1136	1140	S10	W88	9389	03	26.0	5	SF				23		H	
	KANZ	01	1135	1136	1138D	S10	W85	9389	03	26.2	3D	SF		2	E				
	RAMY	01	1135	1136	1140	S09	W91	9389	03	25.7	5	SF		3	E	23		H	
0014	RAMY	01	1254	1254	1302	S08	W91	9389	03	25.8	8	SF		3	E	20			
0015		01	13544	13584	1412	N14	W58	9393	03	28.3	18	SF				51		F	
	RAMY	01	1354	1358	1423	N14	W58	9393	03	28.3	29	SF		3	E	86		F	
	KANZ	01	1356	1402	1406	N13	W57	9393	03	28.4	10	SF		2	E				
	HOLL	01	1358	1401	1406	N14	W58	9393	03	28.3	8	SF		3	E	16		F	
0016	HOLL	01	1654	1656	1702	N14	W58	9393	03	28.4	8	SF		3	E	12		F	
0017	RAMY	01	1837	1933	1943	N17	W54	9393	03	28.8	66	SF		3	E	47		F	
0018		01	1916*	1950	2029D	N17	W54	9393	03	28.8	73D	1F				153		EF	
	HOLL	01	1916	1950	2029D	N17	W50	9393	03	29.1	73D	1F		3	E	153		FE	
	RAMY	01	1945	1949U	1950D	N17	W57	9393	03	28.6	5D	1F		3	E	153		F	
0019	HOLL	01	1905	1907	1915	N17	W49	9393	03	29.2	10	SF		3	E	19		EF	
0020	HOLL	01	2049	2053	2101	N18	W53	9393	03	28.9	12	SF		3	E	19		F	
0021	HOLL	01	2057	2100	2104	S09	W91	9389	03	26.1	7	SF		3	E	60			
0022	HOLL	01	2107	2108	2114	N19	W55	9393	03	28.8	7	SF		3	E	13			
0023		01	2241	2250	2406	N14	W60	9393	03	28.5	85	1N				79		EFT	
	HOLL	01	2241	2250	2308	N15	W60	9393	03	28.5	27	SF		3	E	40		F	
	LEAR	01	2250E	2255U	2504	N12	W61	9393	03	28.4	134D	1N		4	E	118		FET	
0024	HOLL	02	0017	0017U	0021D	N17	W57	9393	03	28.8	4D	SF		3	E	42			
0025	MITK	02	0148	0151	0155	N12	W60	9393	03	28.6	7	SN			C	0151	60	1.4	D

H α SOLAR FLARES

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Apr 01

APRIL 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)		
0026	LEAR	02	0406	0407	0417	N11	W63	9393	03	28.5	11	SF		4	E		54		F	
0027	LEAR	02	0522	0527	0538	N13	W63	9393	03	28.6	16	SF		3	E		27		F	
0028	LEAR	02	0549	0549	0556	S15	E49	9412	04	5.9	7	SF		3	E		13		F	
0029	LEAR	02	0556	0557	0608	N18	W62	9393	03	28.6	12	SF		3	E		14		F	
0030		02	06452	06492	0730	N18	W55	9393	03	29.2	45	SF					23		F	
	LEAR	02	0645	0649	0733	N18	W56	9393	03	29.1	48	SF		3	E		23		F	
	KANZ	02	0647	0651	0727	N18	W54	9393	03	29.3	40	SF		2	E					
0031		02	07331	07344	0748	N16	W58	9393	03	29.0	15	SF					50		F	
	KANZ	02	0733	0734	0747	N16	W57	9393	03	29.1	14	SF		2	E					
	LEAR	02	0734	0738	0749	N16	W58	9393	03	29.0	15	SF		3	E		50		F	
0032		02	0801	08022	0819	N15	W57	9393	03	29.1	18	SF					16		F	
	KANZ	02	0801	0802	0816	N15	W57	9393	03	29.1	15	SF		2	E					
	LEAR	02	0801	0802	0820	N15	W58	9393	03	29.0	19	SF		3	E		16		F	
	SVTO	02	0801	0804	0821	N16	W57	9393	03	29.1	20	SF		3	E		16		F	
0033		02	0858*	09261	0946	N17	W64	9393	03	28.6	48	1F					190		H	
	SVTO	02	0858	0926	0940	N17	W62	9393	03	28.8	42	1F		3	E		140		H	
	LEAR	02	0902	0927	0958	N17	W64	9393	03	28.6	56	1N		3	E		240			
	KANZ	02	0917	0927	0941	N18	W66	9393	03	28.5	24	1F		2	E					
0034		02	09461	0950	1000	N14	W64	9393	03	28.7	14	SN					61		F	
	SVTO	02	0946	0950	1000	N15	W64	9393	03	28.7	14	SF		3	E		61		F	
	KANZ	02	0947	0950	0959	N13	W64	9393	03	28.7	12	SN		2	E					
0035		02	10051	10073	1334	N16	W60	9393	03	29.0	209	1B					66		FHT	
	SVTO	02	1005	1007	1625	N17	W60	9393	03	29.0	380	1B		3	E		66		FHT	
	KANZ	02	1006	1010	1042	N15	W59	9393	03	29.0	36	1N		2	E					
0036	KANZ	02	1100	1113	1230	N16	W62	9393	03	28.8	90	1F		2	E					
0037	HOLL	02	1344	1344	1355	N17	W61	9393	03	29.0	11	SF		3	E		37		F	
0038	HOLL	02	1357	1423U	1434D	N18	W60	9393	03	29.1	37D	SF		3	E		34		F	
0039	KANZ	02	1437	1437	1441	N22	W38	9401	03	30.8	4	SF		2	E					
0040	HOLL	02	1510E	1510U	1515D	N18	W60	9393	03	29.2	5D	SF		3	E		66			
0041	RAMY	02	1517	1520	1559	N20	W62	9393	03	29.0	42	SF		3	E		41			
0042	RAMY	02	1815	1841	1917	N19	W72	9393	03	28.4	62	1F		3	E		161		F	
0043	RAMY	02	1914	1915	1917	S09	W29	9408	03	31.6	3	SF		3	E		11			
		02	1919		1947	No Flare Patrol														
		02	2100		2311	No Flare Patrol														
0044	LEAR	02	2312E	2312U	2318	N17	W78	9393	03	28.1	6D	SF		4	E		53		Y	
0045		03	02041	02066	0213	S12	W32	9408	03	31.7	9	SN					36	0.5	D	
	LEAR	03	0204	0212	0218	S11	W33	9408	03	31.6	14	SF		4	E		30			
	MITK	03	0205	0206	0208	S12	W32	9408	03	31.7	3	SN			C	0206	41	0.5	D	
0046	LEAR	03	0314	0346	0516	S21	E83	9415	04	9.5	122	1N		4	E		159		FY	
0047	LEAR	03	0455	0500	0505	N13	W78	9393	03	28.4	10	SF		4	E		49			
0048		03	06531	06572	0714	N16	W71	9393	03	29.0	21	SF					24		F	
	SVTO	03	0653	0657	0714	N17	W69	9393	03	29.1	21	SF		3	E		26		F	
	LEAR	03	0653	0658	0720	N16	W72	9393	03	28.9	27	SF		4	E		23			
	KANZ	03	0654	0659	0708	N16	W71	9393	03	29.0	14	SF		2	E					

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Apr 01

H α SOLAR FLARES

APRIL 2001

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	
0049		03	07035	07053	0711	S21	E84	9415	04	9.7	8	SF			59	
	LEAR	03	0703	0705	0712	S20	E86	9415	04	9.9	9	SF	4	E	59	
	KANZ	03	0704	0706	0711	S21	E77	9415	04	9.2	7	SF	2	E		
	SVTO	03	0708	0708	0711	S21	E90	9415	04	10.2	3	SF	3	E	59	
0050		03	07321	0735	0744	N16	W11	9416	04	2.5	12	SF			44	
	KANZ	03	0732	0735	0745	N16	W11	9416	04	2.5	13	SF	2	E		
	LEAR	03	0733	0735	0744	N17	W11	9416	04	2.5	11	SF	3	E	44	
0051		03	09152	09191	0931	S10	W56	9397	03	30.3	16	SF			37	
	KANZ	03	0915	0919	0932	S09	W56	9397	03	30.3	17	SF	2	E		
	LEAR	03	0917	0920	0930	S10	W56	9397	03	30.3	13	SF	3	E	37	
0052		03	12282	12322	1250	N14	W83	9393	03	28.3	22	1F			174	H
	KANZ	03	1228	1232	1301	N13	W80	9393	03	28.6	33	1F	2	E		
	RAMY	03	1228	1234	1248	N15	W88	9393	03	27.9	20	2F	3	E	282	H
	SVTO	03	1230	1233	1242	N14	W81	9393	03	28.5	12	SF	3	E	66	
0053		03	17351	1740	1800	N26	W54	9401	03	30.6	25	SF			80	H
	RAMY	03	1735	1740	1759	N27	W54	9401	03	30.6	24	SF	3	E	80	H
	HOLL	03	1736	1740	1800	N25	W54	9401	03	30.6	24	SF	3	E	81	
0054	LEAR	03	2323	2326	2333	S22	E70	9415	04	9.3	10	SF	2	E	33	
0055	LEAR	04	0210	0210	0215	S20	E80	9415	04	10.2	5	SF	4	E	31	H
0056	URUM	04	0242	0246	0246D	N16	W79	9393	03	29.2	4D	SN		P	32	D
0057	LEAR	04	0442	0445	0457	S19	E73	9415	04	9.8	15	SF	4	E	39	
0058	LEAR	04	0507	0512	0520	S19	E71	9415	04	9.6	13	1F	4	E	107	
0059		04	05269	0536	0544	N25	W61	9401	03	30.6	18	SF			32	
	LEAR	04	0526	0536	0547	N25	W61	9401	03	30.6	21	SF	4	E	54	
	SVTO	04	0535	0536	0540	N25	W61	9401	03	30.6	5	SF	2	E	11	
0060		04	06377	06413	0654	N16	W86	9393	03	28.8	17	1F			132	A
	URUM	04	0637	0641	0657	N18	W84	9393	03	29.0	20	1N		C	80	A
	SVTO	04	0639	0641	0647	N17	W88	9393	03	28.7	8	1F	3	E	114	
	LEAR	04	0639	0641	0652	N15	W88	9393	03	28.7	13	1F	3	E	201	
	KANZ	04	0644	0644	0658	N16	W83	9393	03	29.1	14	1F	2	E		
0061	KANZ	04	0711	0715	0722	S17	E69	9415	04	9.5	11	SF	2	E		
0062		04	07181	07191	0724	S21	E71	9415	04	9.7	6	SF			27	
	KANZ	04	0718	0719	0724	S20	E69	9415	04	9.6	6	SF	2	E		
	LEAR	04	0719	0720	0723	S22	E73	9415	04	9.9	4	SF	3	E	27	
0063		04	0859*	09271	0935	S20	E67	9415	04	9.5	36	SF			86	F
	LEAR	04	0859	0928	0953D	S20	E65	9415	04	9.3	54D	1F	3	E	159	
	KANZ	04	0922	0928	0932	S21	E68	9415	04	9.6	10	SF	2	E		
	SVTO	04	0925	0927	0938	S20	E67	9415	04	9.5	13	SF	3	E	13	F
0064	SVTO	04	0959	1027	1058	S21	E68	9415	04	9.6	59	SF	3	E	25	FH
0065		04	1154	11562	1206	N26	W64	9401	03	30.6	12	SF			48	
	SVTO	04	1154	1156	1207	N28	W67	9401	03	30.3	13	SF	3	E	48	
	KANZ	04	1154	1158	1206	N24	W62	9401	03	30.8	12	SF	2	E		
		04	1829		1844	No Flare Patrol										
0066	RAMY	04	1930	1935	1948	N29	W72	9401	03	30.3	18	1F	3	E	141	
		04	2106		2112	No Flare Patrol										
		04	2229		2253	No Flare Patrol										
0067	LEAR	05	0225	0237	0241	N26	E70	9418	04	10.5	16	SF	3	E	23	FH
0068	LEAR	05	0458	0458	0508	S20	E58	9415	04	9.6	10	SF	4	E	62	F

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															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0069	LEAR	05	0524	0526	0528	N22	W74	9401	03	30.6	4	SF	4	E		17			
0070	LEAR	05	0542	0542	0547	N26	E65	9418	04	10.3	5	SF	4	E		16			H
0071	LEAR	05	0556	0557	0603	S19	E63	9415	04	10.0	7	SF	4	E		26			H
0072		05	0733	0734	0744	N23	W76	9401	03	30.5	11	SF				25			
	SVTO	05	0733	0734	0743	N24	W75	9401	03	30.6	10	SF	3	E		19			
	LEAR	05	0733	0734	0746	N22	W76	9401	03	30.6	13	SF	4	E		31			
0073		05	0833	0833	0852	S08	E35	9417	04	8.0	19	SN				76			E
	LEAR	05	0832E	0834U	0900	S08	E35	9417	04	8.0	28D	SN	4	E		98			E
	SVTO	05	0833	0833	0844	S08	E35	9417	04	8.0	11	SF	3	E		53			
		05	1208		1219	No Flare Patrol													
0074		05	1633	1701	1849	S24	E52	9415	04	9.7	136	2N				322			FZ
	RAMY	05	1633	1701	1849	S24	E50	9415	04	9.5	136	2N	3	E		332			ZF
	HOLL	05	1710E	1710U	1849	S23	E53	9415	04	9.8	99D	2F	3	E		313			F
		05	1944		1949	No Flare Patrol													
		05	1959		2013	No Flare Patrol													
		05	2032		2036	No Flare Patrol													
		05	2106		2124	No Flare Patrol													
		05	2204		2318	No Flare Patrol													
0075	LEAR	05	2311	2327	2343	N28	E61	9418	04	10.7	32	SF	3	E		31			F
0076		06	0147	0148*	0207	S24	E44	9415	04	9.5	20	SN				104		1.9	EF
	LEAR	06	0147	0148	0207	S24	E44	9415	04	9.5	20	SN	3	E		80			F
	URUM	06	0201E	0201	0201D	S23	E44	9415	04	9.5	20D	SN		P		129		1.9	E
0077	LEAR	06	0842	0852	0900	N22	W76	9401	03	31.5	18	SF	3	E		82			
		06	0957		1018	No Flare Patrol													
		06	1031		1036	No Flare Patrol													
0078	RAMY	06	1724	1730	1818	S19	E32	9415	04	9.2	54	SF	3	E		71			F
0079	RAMY	06	1812	1813	1850	S12	E17	9417	04	8.0	38	SF	3	E		32			F
		06	1833		1913	No Flare Patrol													
0080	HOLL	06	2036	2036	2042	S21	E31	9415	04	9.2	6	SF	3	E		14			
0081	HOLL	06	2229	2231	2237	S19	E33	9415	04	9.4	8	SF	3	E		13			
0082	SVTO	07	0930	0935	0942	S08	E11	9417	04	8.2	12	SF	3	E		17			F
0083	HOLL	07	1351	1352	1354	N35	W57		04	3.0	3	SF	3	E		14			F
0084	HOLL	07	1352	1402	1410	S24	E20	9415	04	9.1	18	SF	3	E		20			F
0085	LEAR	08	0254	0254	0301	S12	W08	9417	04	7.5	7	SF	3	E		15			H
0086	URUM	08	0256E	0256U	0256D	N00	E09	9417	04	8.8	7D	SF		P		80		0.8	D
		08	0751		1051	No Flare Patrol													
0087	LEAR	09	0158	0202	0342	S22	E06	9415	04	9.5	104	SF	4	E		73			FZ
0088	URUM	09	0205	0228	0300	S26	E13	9415	04	10.1	55	1N		C		321		3.6	E
0089	URUM	09	0641	0649	0719	N07	E12		04	10.2	38	1F		C		193		2.1	E
0090		09	0655	0655	0706	S20	E00	9415	04	9.3	11	SF				14			F
	LEAR	09	0655	0655	0703	S20	E00	9415	04	9.3	8	SF	3	E		14			F
	KANZ	09	0658E	0658U	0709	S21	W00	9415	04	9.3	11D	SF	2	E					

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																Apparent (10-6 Disk)	Corr (Sq Deg)		
0113	11	1309	13219	1424	S20 W28	9415	04	9.4	75	1F						152		FU	
	RAMY	11	1309	1321	1423	S22 W27	9415	04	9.5	74	1F		3	E		182		UF	
	HOLL	11	1320E	1330	1425	S19 W30	9415	04	9.3	65D	1F		3	E		121		F	
0114	11	1554	15563	1603	S20 W29	9415	04	9.4	9	SF						16		F	
	HOLL	11	1554	1559	1603	S19 W29	9415	04	9.4	9	SF		3	E		10			
	RAMY	11	1555	1556	1603	S20 W29	9415	04	9.4	8	SF		3	E		21		F	
0115	11	1725	17251	1728	S21 W26	9415	04	9.7	3	SF						18		F	
	HOLL	11	1725	1725	1729	S21 W26	9415	04	9.7	4	SF		3	E		13			
	RAMY	11	1725	1726	1728	S21 W27	9415	04	9.6	3	SF		3	E		23		F	
0116	HOLL	11	1853	1854	1900	S16 W03	9424	04	11.5	7	SF		3	E		21		F	
0117	LEAR	11	2359	2404	2454	S27 W33	9415	04	9.4	55	2F		4	E		349		FU	
0118	URUM	12	0105E	0105	0129	S26 W32	9415	04	9.5	24D	SF			P		113	1.4	E	
0119	12	0228	02306	0312	S18 W36	9415	04	9.4	44	1F						170	4.1	E	
	URUM	12	0228	0236	0344	S19 W34	9415	04	9.5	76	1F			C		321	4.1	E	
	LEAR	12	0229	0230	0239	S18 W37	9415	04	9.3	10	SF		4	E		19			
0120	12	0300	03026	0359	S20 W40	9415	04	9.1	59	2B						292	6.8	EFH	
	LEAR	12	0300	0302	0359	S22 W38	9415	04	9.2	59	1N		4	E		102		FH	
	URUM	12	0304E	0308	0359	S19 W42	9415	04	8.9	55D	2B			P		482	6.8	E	
0121	URUM	12	0956E	0956	1000	S22 W42	9415	04	9.2	4D	1F			P		177	2.5	E	
0122	12	1018E	1040	1130	S20 W42	9415	04	9.2	72D	2B						563	8.0	E	
	KANZ	12	1018E	1027U	1134	S20 W41	9415	04	9.3	76D	2N		2	E					
	URUM	12	1020E	1040	1126	S19 W43	9415	04	9.1	66D	2B			P		563	8.0	E	
0123	RAMY	12	1112E	1113U	1206D	S19 W43	9415	04	9.2	54D	SF		3	E		86		F	
		12	1134		1148	No Flare Patrol													
		12	1151		1204	No Flare Patrol													
		12	1211		1222	No Flare Patrol													
		12	1238		1251	No Flare Patrol													
		12	1512		1516	No Flare Patrol													
		12	1520		1603	No Flare Patrol													
		12	1622		1650	No Flare Patrol													
		13	1121		1123	No Flare Patrol													
		13	1138		1158	No Flare Patrol													
		13	1218		1221	No Flare Patrol													
		13	1223		1257	No Flare Patrol													
	0124	VORO	13	2321	2324	2327	S10 W68	9415	04	8.9	6	SF		3	C	2324	36	0.9	
	0125	VORO	14	0008	0008	0013	S06 W63	9417	04	9.3	5	SF		3	C	0008	54	1.2	
0126	LEAR	14	0008	0008	0011	S19 W61	9415	04	9.3	3	SF		3	E		22		FH	
0127	VORO	14	0048	0050	0058	S07 W64	9417	04	9.2	10	SF		3	C	0050	63	1.5		
0128	LEAR	14	0159	0159	0202	S22 W64	9415	04	9.2	3	SF		3	E		22			
0129	14	0716	0719	0726	S21 W62	9415	04	9.5	10	SF						26			
	KANZ	14	0716	0716U	0725	S21 W61	9415	04	9.6	9	SF		2	E					
	LEAR	14	0716	0719	0726	S21 W62	9415	04	9.5	10	SF		4	E		26			
0130	LEAR	14	0827	0836	0856	S18 W67	9415	04	9.2	29	SF		3	E		51			
		14	0951		1041	No Flare Patrol													
0131	14	1718	1719	1722	S18 W71	9415	04	9.3	4	SF						30		F	
	RAMY	14	1718	1719	1721	S17 W71	9415	04	9.3	3	SF		3	E		38		F	
	HOLL	14	1718	1719	1722	S19 W71	9415	04	9.3	4	SF		3	E		23			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0149	HOLL	20	1913	1916	1923	N18	E66	9433	04	25.8	10	1F		3	E		112		H
0150	HOLL	20	1953	1956	2059	N15	E55	9433	04	25.0	66	1F		3	E		179		FH
			21 0121		0310														No Flare Patrol
			21 0326		0433														No Flare Patrol
			21 0535		0913														No Flare Patrol
			21 0928		0937														No Flare Patrol
0151	SVTO	21	1010	1015	1020	N17	E53	9433	04	25.4	10	SF		3	E		13		
			21 1140		1152														No Flare Patrol
			21 1201		1236														No Flare Patrol
0152	HOLL	21	1544	1546	1557	S19	E07	9435	04	22.2	13	SF		3	E		47		
0153	HOLL	21	1807	1810	1815	N15	E34	9433	04	24.3	8	SF		3	E		18		
0154	HOLL	21	1932	1932	1939	N12	E33	9433	04	24.3	7	SF		3	E		44		
			21 2129		2152														No Flare Patrol
			21 2158		2215														No Flare Patrol
0155	HOLL	21	2207E	2214	2221	N16	E35	9433	04	24.6	14D	SF		3	E		23		
0156	HOLL	21	2239	2243	2255	N16	E47	9433	04	25.5	16	SF		3	E		38		
			21 2303		2400														No Flare Patrol
			22 0000		0000														No Flare Patrol
0157	LEAR	22	0134	0148	0156	N20	E30	9433	04	24.3	22	SF		2	E		29		FH
0158	LEAR	22	0515	0515	0521	N20	E40	9433	04	25.3	6	SF		3	E		26		
0159	LEAR	22	0811	0813U	0911D	N20	E39	9433	04	25.3	60D	SF		2	E		40		
0160	URUM	22	1022E	1022	1022D	N16	E38	9433	04	25.3	60D	1B			P		161	2.3	E
			22 1051		1150														No Flare Patrol
0161	RAMY	22	1230	1232	1236	N17	E40	9433	04	25.6	6	SF		3	E		11		F
			22 1239		1246														No Flare Patrol
0162	HOLL	22	1348	1348	1352	N17	E32	9433	04	25.0	4	SF		3	E		11		
0163	HOLL	22	1708	1709	1713	N12	E21	9433	04	24.3	5	SF		3	E		20		FH
0164	HOLL	22	2040	2045	2104	N14	E18	9433	04	24.2	24	1N		3	E		147		FH
0165	HOLL	22	2136	2136	2144	N17	E22	9433	04	24.6	8	SF		3	E		13		F
0166	HOLL	22	2146	2148	2158	N17	E19	9433	04	24.3	12	SF		3	E		42		F
0167	HOLL	22	2200	2203	2222	N17	E21	9433	04	24.5	22	SF		3	E		16		
0168	HOLL	22	2238	2240	2252	N15	E25	9433	04	24.8	14	SF		3	E		61		FU
0169		23	0123	0126	0220D	N18	E18	9433	04	24.4	57D	1N					254	4.7	EFH
	LEAR	23	0123	0126	0220D	N18	E18	9433	04	24.4	57D	1F		1	E		105		FH
	URUM	23	0136E	0136U	0136D	N17	E19	9433	04	24.5	57D	1N			P		402	4.7	E
0170		23	04402	0450	0518	N16	E22	9433	04	24.9	38	1N					234	4.7	EF
	LEAR	23	0440	0450	0512	N17	E21	9433	04	24.8	32	SF		3	E		66		F
	URUM	23	0442	0450	0524	N15	E22	9433	04	24.9	42	1N			C		402	4.7	E
0171	URUM	23	0543	0547	0551	N09	E24	9433	04	25.0	8	SN			C		64	0.7	E
0172	URUM	23	0635	0639	0714	N06	E16	9433	04	24.5	39	1N			C		370	4.0	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
						Region	Lat CMD							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0173	SVTO	23	1010	1016U	1029	N17 E12	9433	04 24.3	19	SF		2	E		71		FH
0174	SVTO	23	1209	1217	1235	S14 W17	9431	04 22.2	26	SF		2	E		17		S
0175	RAMY	23	1221	1222	1248	S14 W17	9431	04 22.2	27	SF		3	E		25		F
0176		23	1530Z	1533I	1544	N16 E08	9433	04 24.2	14	SF					16		F
	RAMY	23	1530	1534	1544	N15 E08	9433	04 24.2	14	SF		3	E		14		F
	HOLL	23	1532	1533	1545	N16 E07	9433	04 24.2	13	SF		3	E		17		F
0177	HOLL	23	1956	2026	2157	N14 E23	9433	04 25.6	121	2N		3	E		266		FU
0178	HOLL	23	2338	2340	2351	N16 E12	9433	04 24.9	13	SF		3	E		88		F
0179	HOLL	24	0019	0021	0036	N17 E03	9433	04 24.2	17	SF		3	E		57		F
		24	0107		0146	No Flare Patrol											
0180		24	0250	0254	0304	N16 E02	9433	04 24.3	14	SN					48	0.9	E
	URUM	24	0250	0254	0301	N16 E03	9433	04 24.3	11	SN			C		80	0.9	E
	LEAR	24	0258E	0303U	0307	N17 E01	9433	04 24.2	9D	SF		2	E		15		
0181	LEAR	24	0319	0322U	0327D	N17 E02	9433	04 24.3	8D	SF		2	E		23		
0182	URUM	24	0321E	0321	0325	S21 W15	9439	04 23.0	4D	SB			P		80	0.9	D
0183		24	0349	0356	0400	N18 E16	9433	04 25.4	11	SN					112	2.1	E
	LEAR	24	0349	0350U	0402D	N18 E16	9433	04 25.4	13D	SF		2	E		48		
	URUM	24	0356E	0356	0400	N17 E17	9433	04 25.4	4D	SN			P		177	2.1	E
0184		24	0536I	0544	0609D	N17 E02	9433	04 24.4	33D	2N					364	6.2	EF
	LEAR	24	0536	0542U	0609D	N18 E01	9433	04 24.3	33D	1N		2	E		165		F
	URUM	24	0537	0544	0546D	N16 E03	9433	04 24.5	9D	2N			P		563	6.2	E
0185		24	0656	0700	0731	N18 E13	9433	04 25.3	35	1F					164	2.3	EF
	URUM	24	0656	0700	0731	N18 E16	9433	04 25.5	35	1N			C		193	2.3	E
	KANZ	24	0705E	0705U	0722D	N18 E11	9433	04 25.1	17D	1F		2	E				
	LEAR	24	0712E	0712U	0820D	N18 E11	9433	04 25.1	68D	1F		2	E		134		F
0186		24	1241I	1252	1344	N19 E14	9433	04 25.6	63	1N					177		F
	SVTO	24	1241	1252	1344	N19 E13	9433	04 25.5	63	1N		3	E		181		F
	RAMY	24	1242	1252	1343	N19 E15	9433	04 25.7	61	1N		3	E		173		F
0187		24	1314E	1315	1410	N20 E13	9433	04 25.5	56D	1F					148		FH
	KANZ	24	1314E	1314U	1315D	N20 E12	9433	04 25.5	1D	1F		2	E				
	HOLL	24	1314E	1315	1410	N19 E14	9433	04 25.6	56D	1F		3	E		148		FH
0188	SVTO	24	1345	1347	1354	N20 E15	9433	04 25.7	9	SF		3	E		17		F
0189	HOLL	24	1806	1812	1855	N17 E13	9433	04 25.7	49	1N		3	E		228		FH
0190	HOLL	24	1857	1901	1907	N17 E12	9433	04 25.7	10	SF		3	E		24		F
0191	HOLL	24	1959	2003	2010	N18 E11	9433	04 25.7	11	SF		3	E		24		F
0192	HOLL	24	2120	2123	2129	N18 E10	9433	04 25.6	9	SF		3	E		24		F
0193	HOLL	24	2217	2222	2314	N17 E01	9433	04 25.0	57	1N		3	E		247		EF
0194		24	2347Z	2350I	2408	N19 E08	9433	04 25.6	21	SF					46		FU
	LEAR	24	2347	2350	2411	N19 E09	9433	04 25.7	24	SF		4	E		62		UF
	HOLL	24	2349	2351	2405	N19 E08	9433	04 25.6	16	SF		3	E		29		F
0195	HOLL	25	0050	0053	0055	N18 E07	9433	04 25.6	5	SF		3	E		61		F
0196	HOLL	25	0056	0058	0104	N16 E01	9433	04 25.1	8	SF		3	E		43		
0197	LEAR	25	0217	0217	0225	N18 E07	9433	04 25.6	8	SF		4	E		15		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Area Measurement			Remarks	
						Lat	CMD	Region					Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0198	LEAR	25	0305	0311	0324	N17	E05	9433	04 25.5	19	SF	4	E	29		F	
0199	LEAR	25	0506	0506	0524	N18	E00	9433	04 25.2	18	SF	4	E	30		F	
0200	25	08061	0812	0912	N19	E02	9433	04 25.5	66	SF				76		F	
	SVTO	25	0806	0812	0918	N20	E02	9433	04 25.5	72	SF	3	E	72		F	
	LEAR	25	0807	0811U	0907	N18	E03	9433	04 25.6	60	SF	3	E	80		F	
0201	KANZ	25	0808	0843U	0901D	N19	E02	9433	04 25.5	53D	1F	2	E				
0202	SVTO	25	0924	0924	0929	N17	W08	9433	04 24.8	5	SF	3	E	10		F	
0203	25	0936	0952	0952	N16	W15	9433	04 24.3	16	SF				24		F	
	LEAR	25	0936	0939U	0947D	N15	W15	9433	04 24.3	11D	SF	2	E	33		F	
	SVTO	25	0936	0952	0955	N17	W16	9433	04 24.2	19	SF	3	E	14		F	
	KANZ	25	0942E	0942U	0949	N16	W15	9433	04 24.3	7D	SF	2	E				
0204	SVTO	25	0956	0957	1003	N19	E03	9433	04 25.6	7	SF	3	E	14		F	
0205	RAMY	25	1114	1115	1117	N19	E02	9433	04 25.6	3	SF	3	E	14			
0206	25	11367	11389	1208	N20	E01	9433	04 25.5	32	SF				43		FH	
	SVTO	25	1136	1138	1139	N20	E01	9433	04 25.5	3	SF	3	E	22		F	
	RAMY	25	1143	1147	1236	N19	E01	9433	04 25.6	53	SF	3	E	64		FH	
0207	SVTO	25	1143	1154U	1246	N20	E00	9433	04 25.5	63	1F	3	E	117		F	
0208	KANZ	25	1144E	1146	1232	N18	E02	9433	04 25.6	48D	SF	2	E				
0209	25	13431	1345	1422	N17	W10	9433	04 24.8	39	2N				337		FH	
	SVTO	25	1343	1345	1421	N17	W11	9433	04 24.7	38	2N	3	E	311		F	
	RAMY	25	1344	1345	1420	N18	W09	9433	04 24.9	36	2N	3	E	329		F	
	HOLL	25	1349E	1349U	1425	N15	W10	9433	04 24.8	36D	2N	2	E	372		FH	
0210	KANZ	25	1343	1345	1420D	N17	W10	9433	04 24.8	37D	2N	2	E				
0211	SVTO	25	1425	1430	1435	N19	W01	9433	04 25.5	10	SF	3	E	15			
0212	25	1439*	15438	1626	N19	W00	9433	04 25.6	107	SF				127		F	
	SVTO	25	1439	1545	1558D	N19	W01	9433	04 25.5	79D	1N	3	E	227		F	
	HOLL	25	1526	1543	1627	N19	E00	9433	04 25.6	61	SF	3	E	83			
	RAMY	25	1547	1551	1626	N19	E00	9433	04 25.6	39	SF	3	E	71		F	
0213	SVTO	25	1607	1607	1610D	N17	W12	9433	04 24.7	3D	SF	3	E	22			
0214	25	18275	18275	1850	N16	W10	9433	04 25.0	23	SF				48		F	
	HOLL	25	1827	1827	1832	N15	W09	9433	04 25.1	5	SF	3	E	16		F	
	RAMY	25	1832	1832	1907	N17	W10	9433	04 25.0	35	SF	3	E	79		F	
0215	HOLL	25	1853	1900	1905	N18	W02	9433	04 25.6	12	SF	3	E	11		F	
		25	2015		2023	No Flare Patrol											
0216	VORO	25	2346	2351	2418	N19	E06	9433	04 26.4	32	1N	2	C	2351	403	4.6	
0217	VORO	25	2349	2354	2418	N21	E21	9433	04 27.6	29	SN	2	C	2354	116	1.4	
0218	VORO	25	2351	2354	2409	N21	E16	9433	04 27.2	18	SF	2	C	2354	63	0.7	
0219	LEAR	26	0103	0108	0128	N19	W08	9433	04 25.4	25	SF	3	E	89		F	
0220	LEAR	26	0155	0158	0225	N19	W07	9433	04 25.5	30	SF	3	E	64		F	
0221	LEAR	26	0433	0433	0442	N09	E16	9437	04 27.4	9	SF	3	E	13			
0222	LEAR	26	0435	0438	0449	N19	W10	9433	04 25.4	14	SF	3	E	32			
		26	1000		1118	No Flare Patrol											

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray Opt	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0223	RAMY	26	1211	1311	1431	N17	W31	9433	04	24.1	140	2B	3	E		324		FZ
0224	HOLL	26	1241E	1309U	1618	N17	W23	9433	04	24.8	217D	2N	3	E		330		FT
0225	SVTO	26	1301	1310	1326D	N20	W04	9433	04	26.2	25D	1F	2	E		178		F
0226	SVTO	26	1608	1611	1615	N20	W08	9433	04	26.1	7	SF	3	E		15		F
0227	HOLL	26	2008	2010	2014	N08	E53	9441	04	30.8	6	SF	3	E		23		
0228	VORO	26	2331	2333	2344	N20	W05		04	26.6	13	SF	2	C	2333	161	1.8	
0229		26	2347	2354	2414	N19	W21	9433	04	25.4	27	SF				15		F
	LEAR	26	2347	2354	2426	N20	W20	9433	04	25.5	39	SF	2	E		18		F
	HOLL	26	2354	2355	2402	N18	W22	9433	04	25.3	8	SF	3	E		12		F
0230	URUM	27	0005	0009	0017	N19	W19	9433	04	25.5	12	SN		C		48	0.6	D
0231		27	0012	0014	0033	N20	W20	9433	04	25.5	21	SN				88	1.1	E
	VORO	27	0012	0015	0047	N20	W20	9433	04	25.5	35	SN	2	C	0015	63	0.8	
	URUM	27	0014E	0014	0019	N21	W21	9433	04	25.4	5D	SN		P		113	1.4	E
0232	URUM	27	0037	0041	0041D	S04	E31		04	29.3	4D	SF		P		80	1.0	E
0233	LEAR	27	0106	0109	0127	N20	W21	9433	04	25.4	21	SF	2	E		36		F
0234		27	0320	0330	0412	N20	W22	9433	04	25.4	52	SN				38	0.4	EFH
	URUM	27	0320	0330	0351	N19	W21	9433	04	25.5	31	SN		C		32	0.4	E
	LEAR	27	0329	0332	0432	N20	W22	9433	04	25.5	63	SF	3	E		45		FH
0235	URUM	27	0351	0402	0415	N20	W22	9433	04	25.5	24	SN		C		129	1.6	E
0236	LEAR	27	0652	0708	0719	N10	E46	9441	04	30.7	27	SF	3	E		18		F
0237	LEAR	27	0657	0657	0702	N15	W42	9433	04	24.1	5	SF	3	E		23		F
0238	LEAR	27	0721	0724	0733	N10	E46	9441	04	30.8	12	SF	2	E		17		F
0239	LEAR	27	0834	0848	0853	N19	W27	9433	04	25.3	19	SF	1	E		24		
0240	LEAR	27	0903	0904	0909	N09	E45	9441	04	30.7	6	SF	1	E		18		
0241	HOLL	27	1321	1322	1326	N06	E43	9441	04	30.8	5	SF	3	E		17		
0242		27	1328	1328	1346	N19	W28	9433	04	25.4	18	SF				19		
	SVTO	27	1327E	1336U	1350D	N19	W28	9433	04	25.4	23D	SF	3	E		31		
	RAMY	27	1328	1328	1348	N19	W28	9433	04	25.4	20	SF	3	E		16		
	HOLL	27	1329	1329	1343	N18	W27	9433	04	25.5	14	SF	3	E		10		
0243		27	1352*	1353	1357	N19	W28	9433	04	25.4	5	SF				20		
	HOLL	27	1352	1353	1357	N19	W27	9433	04	25.5	5	SF	3	E		17		
	SVTO	27	1403	1409U	1426D	N19	W28	9433	04	25.4	23D	SF	3	E		23		
0244	RAMY	27	1656	1657	1704	N15	W38	9433	04	24.8	8	SF	3	E		11		
0245	HOLL	27	1909	1914	1957	N19	W28	9433	04	25.7	48	1F	3	E		175		FH
0246	HOLL	27	1959	2002	2007	N17	W23	9433	04	26.1	8	SF	3	E		34		H
0247	RAMY	27	1909	1917	2009	N18	W37	9433	04	25.0	60	1F	3	E		177		FH
0248	RAMY	27	2039	2039	2055	N20	W31	9433	04	25.5	16	SF	3	E		15		
0249	HOLL	27	2216	2221	2224	N20	W30	9433	04	25.6	8	SF	3	E		13		F
0250	HOLL	27	2229	2231	2234	N20	W33	9433	04	25.4	5	SF	3	E		12		
0251	LEAR	27	2309E	2315	2401	N19	W34	9433	04	25.4	52D	SF	2	E		50		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0252	VORO	27	2346	2357	2411	N20	W17	9433	04	26.7	25	SN		2	C	2357	116	1.4	
0253		28	0655	0657	0740	N19	W36	9433	04	25.5	45	SF					66		F
	KANZ	28	0655E	0657	0738D	N19	W35	9433	04	25.6	43D	SF		2	E				
	LEAR	28	0655	0657	0740	N19	W37	9433	04	25.5	45	SF		2	E			66	F
0254		28	0912	0920	1000D	N16	W41	9433	04	25.3	48D	1F					228		F
	LEAR	28	0912	0920	0935D	N16	W42	9433	04	25.2	23D	1F		2	E			228	F
	KANZ	28	0930E	0930U	1000D	N16	W40	9433	04	25.4	30D	1F		2	E				
		28	1005		1010	No Flare Patrol													
0255	HOLL	28	1446	1448	1456	S13	E71	9444	05	4.0	10	SF		3	E			47	
0256	RAMY	28	1643	1643	1650	N12	W62	9433	04	24.0	7	SF		3	E			14	F
0257	HOLL	28	1703	1705	1707	S13	E69	9444	05	3.9	4	SF		3	E			21	
0258	HOLL	28	1733	1735	1801	N20	W42	9433	04	25.5	28	SF		3	E			17	F
		28	1839		1856	No Flare Patrol													
		28	1906		2015	No Flare Patrol													
0259	HOLL	28	2017	2017	2024	N20	W43	9433	04	25.5	7	SF		3	E			36	
		28	2137		2201	No Flare Patrol													
		28	2214		2247	No Flare Patrol													
0260	LEAR	29	0354	0355	0401	N18	W46	9433	04	25.6	7	SF		3	E			66	
0261	LEAR	29	0405	0408	0418	N23	E71	9445	05	4.6	13	SF		3	E			44	
0262	KANZ	29	1106E		1106	N16	W67	9433	04	24.4	13D	SF		2	E				
0263	SVTO	29	1247	1249	1251	N18	W52	9433	04	25.6	4	SF		3	E			27	F
0264		29	14141	14152	1422	N24	E68	9445	05	4.8	8	SF						36	
	HOLL	29	1414	1417	1422	N23	E70	9445	05	5.0	8	SF		3	E			45	
	SVTO	29	1415	1415	1421	N24	E67	9445	05	4.8	6	SF		3	E			26	
0265		29	1726	17261	1731	N19	E63	9445	05	4.5	5	SF						22	
	HOLL	29	1726	1726	1735D	N19	E63	9445	05	4.5	9D	SF		3	E			18	
	RAMY	29	1726	1727	1731	N19	E63	9445	05	4.5	5	SF		3	E			26	
0266		29	1743	17432	1748	N24	E66	9445	05	4.8	5	SF						22	
	RAMY	29	1743	1743	1747	N24	E66	9445	05	4.8	4	SF		3	E			13	
	HOLL	29	1743	1745	1749	N23	E67	9445	05	4.9	6	SF		3	E			30	
0267	HOLL	29	1922	1925	1932	N25	E60	9445	05	4.4	10	SF		3	E			37	
0268	HOLL	29	2120	2125	2130	N18	E61	9445	05	4.5	10	SF		3	E			17	
		29	2149		2157	No Flare Patrol													
0269	HOLL	29	2159	2200	2207	N18	E61	9445	05	4.6	8	SF		3	E			22	
0270	HOLL	29	2210	2214	2215	N18	E59	9445	05	4.4	5	SF		3	E			10	
		29	2223		2227	No Flare Patrol													
		29	2237		2241	No Flare Patrol													
		29	2307		2311	No Flare Patrol													
0271	LEAR	30	0236	0237	0243	N22	W59	9433	04	25.6	7	SF		3	E			84	F
0272	LEAR	30	0404	0405	0408	N22	W60	9433	04	25.5	4	SF		3	E			42	
0273	SVTO	30	0539	0540	0545	N22	W59	9433	04	25.7	6	SF		4	E			44	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0274	30	07201	07211	0728	N27	E58	9445	05	4.8	8	SF					35		F
	KANZ	30	0720	0721	0725	N26	E57	9445	05	4.7	5	SF	2	E				
	LEAR	30	0720	0722	0730	N28	E57	9445	05	4.8	10	SF	3	E		38		F
	SVTO	30	0721	0721	0728	N27	E59	9445	05	4.9	7	SF	4	E		32		F
0275	SVTO	30	1023	1023	1027	N27	E58	9445	05	4.9	4	SF	4	E		13		
0276	SVTO	30	1157	1157	1212	N18	W60	9433	04	25.9	15	SF	4	E		22		
0277	HOLL	30	1310	1310	1313	N17	W75	9433	04	24.8	3	SF	3	E		16		
0278	30	13141	1315	1322	N24	E58	9445	05	5.0	8	SF					26		F
	HOLL	30	1314	1315	1325	N24	E57	9445	05	4.9	11	SF	3	E		34		F
	RAMY	30	1315	1315	1318	N25	E58	9445	05	5.0	3	SF	3	E		18		F
0279	30	1337*	1338*	1400	N21	E56	9445	05	4.9	23	SF					12		F
	HOLL	30	1337	1338	1355	N21	E56	9445	05	4.9	18	SF	3	E		12		F
	HOLL	30	1356	1358	1405	N21	E55	9445	05	4.8	9	SF	3	E		12		
0280	RAMY	30	1338	1338	1344	N21	E55	9445	05	4.8	6	SF	3	E		10		
0281	30	1521	1522	1536	N25	E56	9445	05	5.0	15	SF					29		F
	SVTO	30	1521	1522	1526	N26	E55	9445	05	4.9	5	SF	4	E		29		
	HOLL	30	1521	1522	1527	N24	E56	9445	05	5.0	6	SF	3	E		36		F
	RAMY	30	1521	1522	1555	N24	E56	9445	05	5.0	34	SF	3	E		22		
0282	30	1621	1623	1625	N18	W60	9433	04	26.1	4	SF					14		
	HOLL	30	1621	1623	1625	N19	W59	9433	04	26.2	4	SF	3	E		17		
	SVTO	30	1621	1623	1625	N18	W61	9433	04	26.0	4	SF	3	E		12		
0283	HOLL	30	1733	1748	1753	N22	E52	9445	05	4.7	20	SF	3	E		14		
0284	RAMY	30	1734	1737	1934	N30	E68	9445	05	6.1	120	SF	3	E		12		

"Remarks"

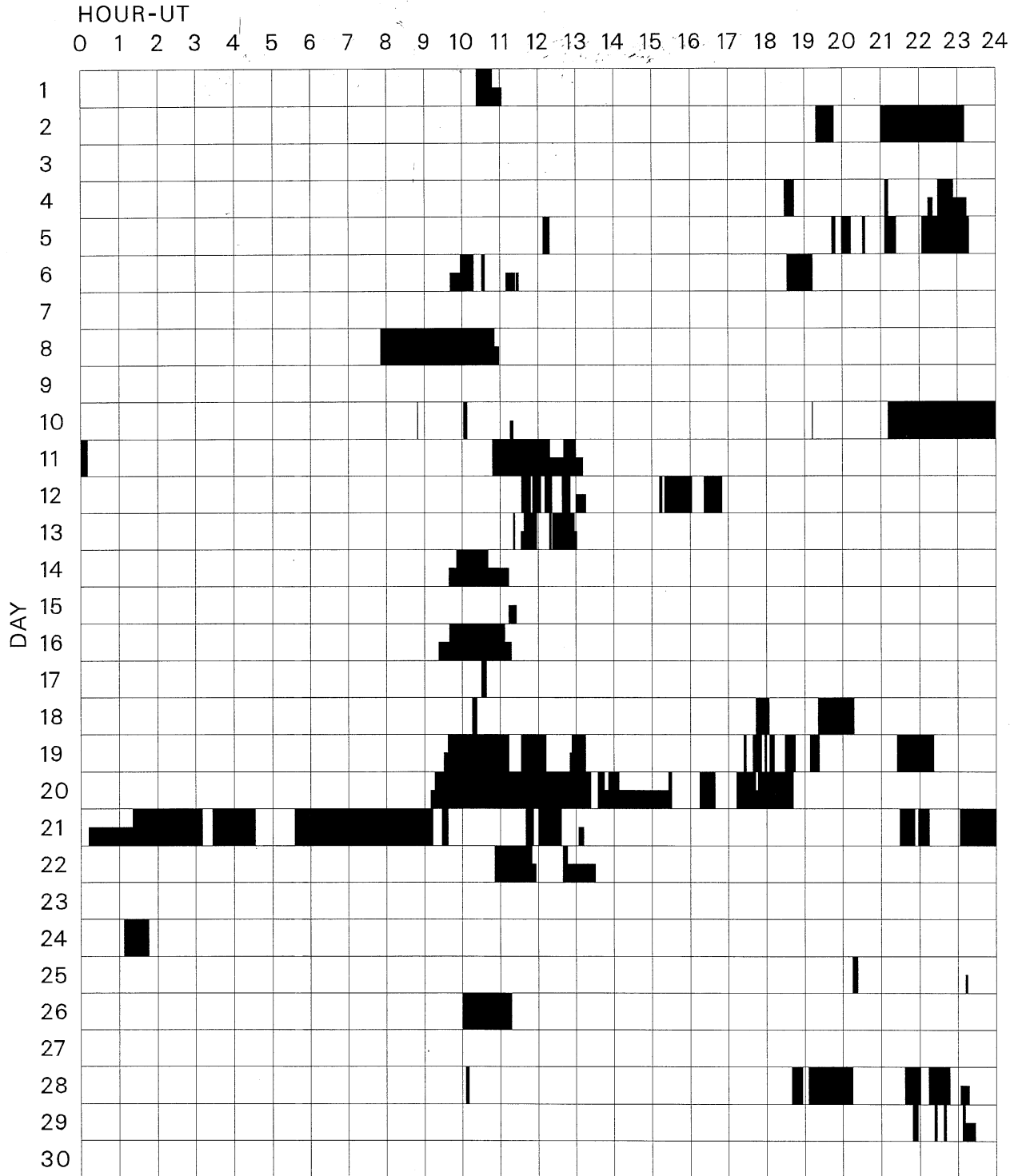
- | | |
|---|---|
| <p>A = Eruptive prominence whose base is less than 90 degrees from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in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

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

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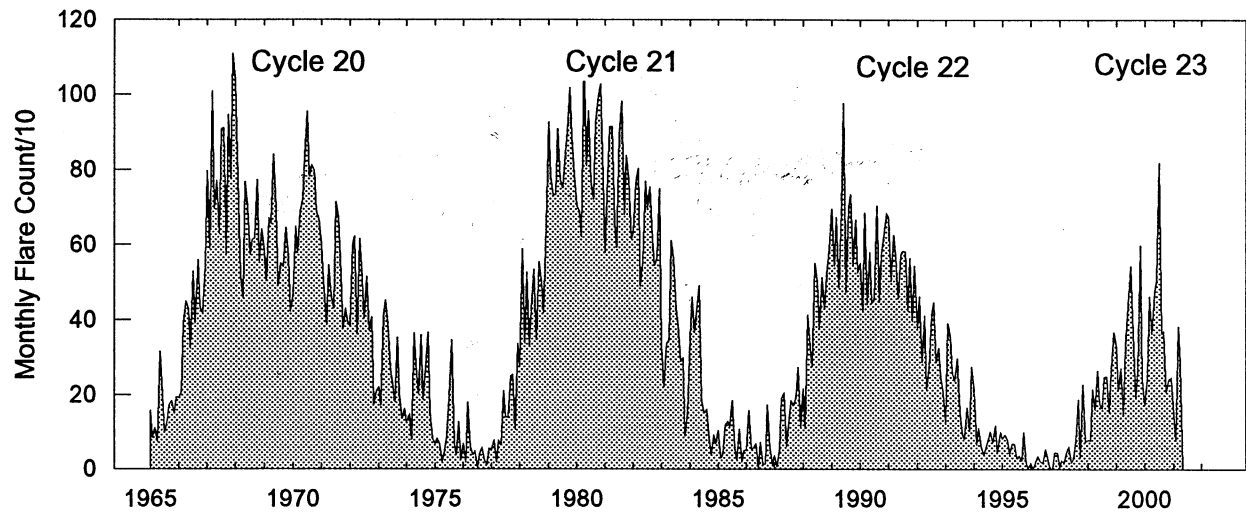
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Times of no flare patrol, shown here as shades areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with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

Holloman	Urumqi	Learmonth	Ramey	San Vito
Kanzelhoehe	Mitaka	Voroshilov		

Monthly Counts of Grouped Solar Flares Jan 1965 - Apr 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									891

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

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Apr 01

APRIL 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		
01	245	SVTO	43 NS	0453.0	1443.0	718.0	240.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		390.00		70.0		
	127	TORN	44 NS	0630.0E		510.00		190.0		V=1
	245	SGMR	43 NS	1102.0	2129.0	686.0	260.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.00		35.0		
	280	CUBA	44 NS	1300.0E		530.00		38.0		
	410	SGMR	43 NS	1454.0	1457.0	27.0	280.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	1515.0	1527.0	42.0	130.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1642.0	2313.0	556.0	360.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2247.0	2303.00	186.0	330.0			QL=2 ST=3 TYP=1
	9100	GORK	46 C	0512.8	0521.5		155.0			
	9100	GORK	46 C	0512.8	0514.7	10.1	29.0			
	2950	GORK	46 C	0515.9	0517.1	14.8	20.0			
	2950	GORK	46 C	0515.9	0524.7		70.0			
	8800	LEAR	46 C	0516.0	0517.0	2.0	45.0			QL=2 ST=2 TYP=8
	15400	LEAR	46 C	0516.0	0517.0	2.0	43.0			QL=2 ST=2 TYP=8
	4995	LEAR	48 C	0516.0	0524.0	19.0	170.0			QL=2 ST=2 TYP=8
	900	GORK	46 C	0517.4	0524.3		18.0			
	900	GORK	46 C	0517.4	0519.4	10.8	60.0			
	900	GORK	46 C	0517.4	0522.9		17.0			
	15400	SVTO	4 S/F	0520.0	0524.0	9.0	130.0			QL=4 ST=2 TYP=3
	9100	GORK	29 PBI	0522.9	0522.9	11.7	48.0			
	2800	HIRA	3 S	0523.0	0525.0	8.0	50.0			0
	500	HIRA	7 C	0523.0	0523.0	4.0	20.0			0
	2695	LEAR	48 C	0523.0	0524.0	4.0	73.0			QL=2 ST=2 TYP=8
	410	LEAR	8 S	0523.0	0523.0		150.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	0523.0	0524.0	3.0	150.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0524.0	0524.0	1.0	50.0			0
	2695	SVTO	8 S	0524.0	0524.0	2.0	58.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0524.0	0524.0	2.0	120.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0633.0	0633.0	1.0	20.0			0
	200	HIRA	8 S	0633.0	0633.0	1.0	50.0			MR
	204	IZMI	42 SER	0633.2	0633.2	0.4	128.0			
	3000	IZMI	7 C	0729.1	0730.6	2.4	25.0	9.0		
	2950	GORK	2 S/F	0729.7	0730.5	2.0	19.0			
	9100	GORK	2 S/F	0730.2	0730.5	1.1	12.0			
	9100	GORK	1 S	0858.9	0859.2	1.4	10.0			
	204	IZMI	25 R	1034.0		178.00		90.0		
	3000	IZMI	45 C	1052.4	1138.3	84.5	1021.0	199.0		
	4995	SVTO	48 C	1055.0	1135.0	77.0	2900.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1058.0	1138.0	72.0	1200.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1058.0	1135.0	73.0	2800.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1059.0	1135.0	71.0	1600.0			QL=4 ST=2 TYP=8
	33	UPIC	27 RF	1106.0	1132.5	91.0				
	1415	SVTO	4 S/F	1117.0	1118.0	763.0	54.0			QL=4 ST=1 TYP=3
	4995	SGMR	48 C	1118.0	1135.0	50.0	3000.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1118.0	1135.0	50.0	3300.0			QL=4 ST=2 TYP=8
	2695	SGMR	49 GB	1130.0	1138.0	38.0	1100.0			QL=4 ST=2 TYP=6
	15400	SGMR	49 GB	1130.0	1135.0	38.0	2100.0			QL=4 ST=2 TYP=6
	1415	SGMR	20 GRF	1131.0	1138.0	37.0	300.0			QL=4 ST=2 TYP=2
1415	SVTO	20 GRF	1131.0	1138.0	33.0	320.0			QL=4 ST=2 TYP=2	
9500	CUBA	20 GRF	1258.0E	1258.0	46.00	28.0	14.0			
6700	CUBA	20 GRF	1303.0E		34.00	22.0	10.0			
9500	CUBA	21 GRF	1442.0	1458.0	36.0	14.0	7.0			
6700	CUBA	20 GRF	1443.0	1545.0	85.0	11.0	5.0			
9500	CUBA	1 S	1443.2	1444.2	2.2	7.0	3.0			
410	SVTO	48 C	1454.0	1457.0	12.0	790.0			QL=2 ST=2 TYP=8	
6700	CUBA	20 GRF	1651.0	1653.0	15.0	12.0	6.0			
410	SGMR	8 S	1706.0	1707.0	2.0	120.0			QL=4 ST=2 TYP=3	
6700	CUBA	21 GRF	1733.0	1738.0	26.0	28.0	14.0			
9500	CUBA	21 GRF	1733.0	2008.0	164.0	63.0	31.0			
6700	CUBA	2 S/F	1742.8	1743.2	1.4	17.0	8.0			
9500	CUBA	1 S	1742.8	1743.2	1.4	14.0	7.0			
6700	CUBA	2 S/F	1747.2	1748.8	6.3	33.0	16.0			
2800	PENT	8 S	1800.0	1802.0	4.0	9.0			4R	
15400	PALE	4 S/F	1801.0	1802.0	9.0	61.0			QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1818.0	1818.0	1.0	58.0			QL=4 ST=2 TYP=3	
6700	CUBA	1 S	1900.2	1902.0	2.8	31.0	15.0			
15400	SGMR	4 S/F	1901.0	1901.0	3.0	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

APRIL 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			
01	9500	CUBA	1 S	1901.0	1901.8	2.3	28.0	14.0			
	410	SGMR	8 S	1903.0	1904.0	1.0	97.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1908.0	1909.0	2.0	110.0			QL=4 ST=2 TYP=3	
	6700	CUBA	21 GRF	1930.0	2009.0	175.00	83.0	41.0		8L SUNSET	
	8800	SGMR	4 S/F	1946.0	1948.0	10.0	83.0			QL=4 ST=2 TYP=3	
	15400	PALE	4 S/F	1947.0	1947.0	6.0	94.0			QL=4 ST=2 TYP=3	
	4995	SGMR	4 S/F	1947.0	1948.0	9.0	56.0			QL=4 ST=2 TYP=3	
	15400	SGMR	4 S/F	1947.0	1947.0	9.0	80.0			QL=4 ST=2 TYP=3	
	9500	CUBA	2 S/F	1947.1	1948.8	6.7	27.0	13.0			
	2800	PENT	29 PBI	1959.0	2001.0	5.0	23.0				
	15400	PALE	49 GB	2000.0	2002.0	17.0	530.0			QL=4 ST=2 TYP=6	
	4995	SGMR	4 S/F	2000.0	2002.0	29.0	93.0			QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	2000.0	2002.0	29.0	380.0			QL=4 ST=2 TYP=3	
	15400	SGMR	4 S/F	2000.0	2002.0	29.0	460.0			QL=4 ST=2 TYP=3	
	6700	CUBA	4 S/F	2000.0	2002.2	8.5	183.0	91.0		4L	
	9500	CUBA	4 S/F	2000.2	2002.1	7.8	214.0	107.0			
	8800	PALE	8 S	2001.0	2002.0	2.0	170.0			QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	2028.0	2028.0	1.0	220.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2055.0	2055.0	U	66.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2105.0	2106.0	2.0	77.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2110.0	2110.0	2.0	56.0			QL=4 ST=2 TYP=3	
	2800	PENT	1 S	2157.0	2159.0	5.0	8.0				
	410	SGMR	8 S	2210.0	2210.0	1.0	160.0			QL=4 ST=2 TYP=3	
	410	PALE	8 S	2259.0	2300.0	1.0	75.0			QL=4 ST=2 TYP=3	
	245	PALE	49 GB	2301.0	2303.0	2.0	650.0			QL=4 ST=2 TYP=6	
	02	204	IZMI	44 NS	0600.0E		395.0D		30.0		
		127	TORN	44 NS	0730.0E		450.0D		60.0		V=1
245		SVTO	43 NS	1234.0	1351.0	185.0	130.0			QL=4 ST=2 TYP=1	
245		SGMR	43 NS	1251.0	1355.0	171.0	130.0			QL=4 ST=2 TYP=1	
235		CUBA	44 NS	1300.0E		300.0D		19.0			
280		CUBA	44 NS	1300.0E		300.0D		30.0			
410		SGMR	43 NS	1548.0	1550.0	3.0	110.0			QL=4 ST=2 TYP=1	
245		PALE	43 NS	1855.0	1902.0	305.0	61.0			QL=4 ST=1 TYP=1	
245		SGMR	43 NS	1900.0	2146.0	227.0	140.0			QL=4 ST=2 TYP=1	
245		PALE	43 NS	1955.0	2100.0	277.0	110.0			QL=4 ST=2 TYP=1	
410		PALE	43 NS	2011.0	2050.0	185.0	100.0			QL=4 ST=2 TYP=1	
410		SGMR	43 NS	2012.0	2050.0	80.0	85.0			QL=4 ST=2 TYP=1	
2800		PENT	41 F	0011.0	0018.0	31.0	213.0				
8800		LEAR	49 GB	0015.0	0018.0	14.0	860.0			QL=4 ST=2 TYP=6	
2800		HIRA	3 S	0016.0	0019.0	8.0	185.0			0	
15400		LEAR	49 GB	0016.0	0017.0	9.0	940.0			QL=4 ST=2 TYP=6	
2695		LEAR	4 S/F	0016.0	0018.0	8.0	230.0			QL=2 ST=2 TYP=3	
8800		PALE	49 GB	0016.0	0019.0	5.0	800.0			QL=4 ST=2 TYP=6	
15400		PALE	49 GB	0016.0	0017.0	5.0	970.0			QL=4 ST=2 TYP=6	
4995		PALE	4 S/F	0016.0	0019.0	5.0	500.0			QL=4 ST=2 TYP=3	
4995		LEAR	49 GB	0016.0	0019.0	13.0	520.0			QL=2 ST=2 TYP=6	
1415		LEAR	4 S/F	0017.0	0018.0	4.0	63.0			QL=2 ST=2 TYP=3	
2695		PALE	4 S/F	0017.0	0019.0	4.0	190.0			QL=4 ST=2 TYP=3	
500		HIRA	8 S	0018.0	0018.0	2.0	105.0			0	
1415		PALE	8 S	0018.0	0018.0	2.0	79.0			QL=4 ST=2 TYP=3	
15400		LEAR	8 S	0031.0	0033.0	2.0	26.0			QL=4 ST=2 TYP=3	
2695		LEAR	8 S	0033.0	0035.0	2.0	53.0			QL=2 ST=2 TYP=3	
4995		LEAR	4 S/F	0033.0	0034.0	3.0	93.0			QL=2 ST=2 TYP=3	
8800		LEAR	4 S/F	0033.0	0034.0	4.0	110.0			QL=4 ST=2 TYP=3	
4995		PALE	8 S	0034.0	0034.0	1.0	94.0			QL=4 ST=2 TYP=3	
8800		PALE	8 S	0034.0	0034.0	1.0	97.0			QL=4 ST=2 TYP=3	
200		HIRA	8 S	0130.0	0130.0	1.0	20.0			WL	
245	LEAR	8 S	0501.0	0501.0	U	180.0			QL=2 ST=2 TYP=3		
245	SVTO	8 S	0501.0	0501.0	U	190.0			QL=2 ST=2 TYP=3		
9100	GORK	3 S	0506.7	0507.8	4.5	100.0					
8800	LEAR	4 S/F	0507.0	0507.0	3.0	96.0			QL=4 ST=2 TYP=3		
15400	LEAR	4 S/F	0507.0	0507.0	3.0	92.0			QL=4 ST=2 TYP=3		
8800	SVTO	4 S/F	0507.0	0507.0	3.0	91.0			QL=4 ST=2 TYP=3		
15400	SVTO	4 S/F	0507.0	0507.0	3.0	95.0			QL=2 ST=2 TYP=3		
900	GORK	8 S	0507.2	0507.3	0.2	14.0					
8800	SVTO	20 GRF	0527.0	0533.0	12.0	69.0			QL=4 ST=2 TYP=2		
15400	SVTO	20 GRF	0528.0	0533.0	13.0	52.0			QL=4 ST=2 TYP=2		
9100	GORK	4 S/F	0528.6	0533.8	9.4	40.0					

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

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Apr 01

A P R I L 2 0 0 1

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
02	8800	LEAR	4 S/F	0529.0	0533.0	8.0	60.0			QL=4 ST=2 TYP=3
	4995	SVTO	20 GRF	0529.0	0534.0	9.0	66.0			QL=4 ST=2 TYP=2
	4995	LEAR	4 S/F	0529.0	0533.0	14.0	65.0			QL=2 ST=2 TYP=3
	15400	LEAR	4 S/F	0529.0	0533.0	14.0	49.0			QL=4 ST=2 TYP=3
	2950	GORK	4 S/F	0529.2	0534.0	7.5	28.0			
	2695	LEAR	4 S/F	0531.0	0533.0	4.0	41.0			QL=2 ST=2 TYP=3
	2695	SVTO	4 S/F	0531.0	0533.0	4.0	42.0			QL=4 ST=2 TYP=3
	900	GORK	46 C	0532.7	0533.2	1.9	16.0			
	900	GORK	46 C	0532.7	0534.3		3.4			
	1415	LEAR	8 S	0533.0	0533.0	1.0	150.0			QL=2 ST=2 TYP=3
	1415	SVTO	8 S	0533.0	0533.0	1.0	180.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	0624.0	0627.1	6.0	8.0			
	2950	GORK	28 PRE	0632.4	0643.4	14.3	20.0			
	9100	GORK	46 C	0635.8	0647.0		36.0			
	9100	GORK	46 C	0635.8	0636.5	16.4	110.0			
	8800	LEAR	8 S	0636.0	0636.0	1.0	100.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0636.0	0636.0	1.0	90.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0636.0	0636.0	1.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0636.0	0636.0	1.0	100.0			QL=4 ST=2 TYP=3
	3000	IZMI	7 C	0639.5	0647.4	10.7	59.0	24.4		
	2695	LEAR	8 S	0646.0	0647.0	2.0	48.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0646.0	0647.0	1.0	33.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0646.0	0647.0	3.0	75.0			QL=2 ST=2 TYP=3
	1415	SVTO	8 S	0646.0	0647.0	1.0	28.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0646.0	0647.0	2.0	41.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0646.0	0647.0	2.0	43.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0646.0	0647.0	1.0	25.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0646.0	0647.0	3.0	57.0			QL=4 ST=2 TYP=3
	2950	GORK	3 S	0646.7	0647.4	5.8	42.0			
	9100	GORK	1 S	0711.2	0711.6	1.8	9.7			
	9100	GORK	1 S	0727.7	0728.5	1.4	11.0			
	2950	GORK	1 S	0740.2	0742.0	3.3	9.0			
	200	HIRA	8 S	0741.0	0742.0	1.0	30.0			WR
	204	IZMI	7 C	0741.5	0741.5	0.1	84.0			
	9100	GORK	1 S	0800.6	0801.0	2.0	10.0			
	9100	GORK	4 S/F	0821.8	0822.0	0.3	28.0			
	245	LEAR	4 S/F	0822.0	0824.0	3.0	190.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0824.0	0824.0	1.0	300.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0851.4	0852.3	1.5	8.0			
	204	IZMI	7 C	0911.9	0911.9	0.1	37.0			
	204	IZMI	25 R	0919.0		202.0D		50.0		
	9100	GORK	22 GRF	0920.4	0926.2	16.2	19.0			
	9100	GORK	22 GRF	0920.4	0930.7		22.0			
	245	LEAR	4 S/F	0923.0	0927.0	4.0	140.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0926.0	0927.0	1.0	170.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0944.6	0946.2	3.0	90.0			
	9100	GORK	1 S	0947.8	0948.2	0.8	21.0			
	8800	SVTO	8 S	0959.0	0959.0	1.0	32.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0959.0	0959.0	1.0	110.0			QL=4 ST=2 TYP=3
	9100	GORK	3 S	0959.0	0959.7	2.4	54.0			
8800	SVTO	49 GB	1005.0	1007.0	14.0	1000.0			QL=4 ST=2 TYP=6	
15400	SVTO	49 GB	1005.0	1007.0	19.0	1200.0			QL=4 ST=2 TYP=6	
9100	GORK	46 C	1005.4	1012.1		220.0				
9100	GORK	46 C	1005.4	1007.5	12.6	1100.0				
9100	GORK	46 C	1005.4	1015.7		125.0				
2950	GORK	4 S/F	1005.9	1008.0	5.2	165.0				
3000	IZMI	45 C	1005.9	1007.9	5.5	229.0	70.0			
15400	LEAR	49 GB	1006.0	1007.0	3.0	590.0			QL=4 ST=2 TYP=6	
4995	SVTO	49 GB	1006.0	1007.0	5.0	690.0			QL=4 ST=2 TYP=6	
33	UPIC	32 ABS	1006.0	1012.0	20.0					
4995	LEAR	8 S	1007.0	1007.0	2.0	380.0			QL=2 ST=2 TYP=3	
8800	LEAR	8 S	1007.0	1007.0	2.0	370.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	1007.0	1008.0	1.0	110.0			QL=2 ST=2 TYP=3	
2695	SVTO	8 S	1007.0	1008.0	2.0	140.0			QL=4 ST=2 TYP=3	
1415	LEAR	8 S	1008.0	1008.0	1.0	37.0			QL=2 ST=2 TYP=3	
33	UPIC	45 C	1015.5	1017.0	2.5					
204	IZMI	42 SER	1015.8	1016.2	0.9	340.0				
9100	GORK	30 PBI	1018.0	1018.0	19.8	45.0				
9100	GORK	1 S	1021.2	1021.8	1.1	10.0				

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

APRIL 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		
02	3000	IZMI	46 C	1052.6	1126.9	72.1	795.0	86.0		
	4995	SVTO	48 C	1056.0	1126.0	72.0	630.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1056.0	1126.0	72.0	1000.0			QL=4 ST=2 TYP=8
	1415	SVTO	20 GRF	1059.0	1110.0	61.0	130.0			QL=4 ST=2 TYP=2
	33	UPIC	47 GB	1059.0	1100.0	115.5				
	127	TORN	48 C	1059.0	1100.5	10.3	200.0	50.0		
	204	IZMI	42 SER	1059.4	1107.8	14.8	186.0			
	2695	SVTO	48 C	1100.0	1126.0	61.0	670.0			
	410	SVTO	48 C	1102.0	1110.0	33.0	620.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1102.0	1126.0	87.0	710.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1103.0	1126.0	61.0	990.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1103.0	1126.0	61.0	660.0			QL=4 ST=2 TYP=8
	1415	SGMR	20 GRF	1104.0	1110.0	11.0	68.0			QL=4 ST=2 TYP=2
	2695	SGMR	48 C	1104.0	1126.0	60.0	630.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1104.0	1126.0	60.0	600.0			QL=4 ST=2 TYP=8
	410	SGMR	4 S/F	1105.0	1110.0	59.0	280.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	1106.5	1124.5	60.0	364.0			
	245	SVTO	48 C	1110.0	1125.0	33.0	280.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1116.0	1125.0	48.0	240.0			QL=4 ST=2 TYP=8
	6700	CUBA	22 GRF	1221.0E	1512.0	262.0D	90.0	45.0		7R SUNRISE
	9500	CUBA	21 GRF	1240.0E	1240.0	206.0D	53.0	26.0		SUNRISE
	245	SGMR	8 S	1248.0	1249.0	1.0	71.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1344.0	1344.0	1.0	210.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1344.0	1344.0	U	150.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1410.0	1412.0	10.0	46.0			QL=4 ST=2 TYP=3
	1415	SVTO	20 GRF	1410.0	1415.0	13.0	77.0			QL=4 ST=2 TYP=2
	1415	SGMR	4 S/F	1411.0	1415.0	9.0	70.0			QL=4 ST=2 TYP=3
	2695	SVTO	46 C	1411.0	1414.0	3.0	42.0			QL=4 ST=2 TYP=8
	410	SVTO	4 S/F	1411.0	1413.0	5.0	46.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1459.0	1513.0	58.0	142.0			
	9500	CUBA	1 S	1837.0	1838.5	9.0	40.0	20.0		
	6700	CUBA	1 S	1837.2	1838.2	3.8	20.0	10.0		4L
	15400	PALE	8 S	1838.0	1838.0	1.0	75.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1838.0	1838.0	1.0	38.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1838.0	1838.0	3.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1856.0	1857.0	2.0	53.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2120.0	2120.0	U	260.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2128.0	2131.0	1434.0	34.0			QL=4 ST=2 TYP=3
	2800	PENT	47 GB	2130.0	2130.0U	1.0U				
	15400	PALE	48 C	2132.0	2149.0	104.0	14000.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	2133.0	2149.0	41.0	12000.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	2135.0	2147.0	35.0	5500.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	2135.0	2147.0	35.0	7100.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	2135.0	2147.0	106.0	7600.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	2135.0	2147.0	112.0	5500.0			QL=4 ST=2 TYP=8
	245	PALE	8 S	2139.0	2139.0	U	360.0			QL=4 ST=2 TYP=3
	2695	SGMR	49 GB	2143.0	2148.0	29.0	3600.0			QL=4 ST=2 TYP=6
	1415	SGMR	48 C	2144.0	2148.0	26.0	4200.0			QL=4 ST=2 TYP=8
	1415	PALE	48 C	2144.0	2148.0	99.0	4400.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	2144.0	2253.0	97.0	10000.0			QL=4 ST=2 TYP=8
500	HIRA	47 GB	2146.0	2150.0	17.0	510.0			0	
610	PALE	49 GB	2146.0	2150.0	19.0	940.0			QL=4 ST=2 TYP=6	
610	SGMR	49 GB	2146.0	2149.0	19.0	920.0			QL=4 ST=2 TYP=6	
245	SGMR	49 GB	2146.0	2152.0	28.0	45000.0			QL=4 ST=2 TYP=6	
410	SGMR	49 GB	2147.0	2149.0	27.0	530.0			QL=4 ST=2 TYP=6	
410	PALE	49 GB	2148.0	2149.0	13.0	710.0			QL=4 ST=2 TYP=6	
200	HIRA	47 GB	2149.0	2152.0	18.0	4460.0			0	
500	HIRA	47 GB	2205.0	2205.0	1.0	985.0			0	
1415	SGMR	4 S/F	2214.0	2217.0	5.0	190.0			QL=4 ST=2 TYP=3	
2695	SGMR	4 S/F	2216.0	2216.0	3.0	180.0			QL=4 ST=2 TYP=3	
1415	SGMR	20 GRF	2224.0	2229.0	19.0	440.0			QL=2 ST=2 TYP=2	
2695	SGMR	4 S/F	2225.0	2228.0	4.0	410.0			QL=2 ST=2 TYP=3	
610	LEAR	8 S	2248.0	2248.0U	1.0	52.0			QL=2 ST=2 TYP=3	
15400	LEAR	4 S/F	2248.0	2255.0U	7.0	66.0			QL=4 ST=2 TYP=3	
8800	LEAR	20 GRF	2248.0	2256.0U	18.0	260.0			QL=4 ST=2 TYP=2	
1415	LEAR	49 GB	2248.0	2253.0U	26.0	3100.0			QL=2 ST=2 TYP=6	
4995	LEAR	20 GRF	2248.0	2255.0U	33.0	400.0			QL=2 ST=2 TYP=2	
2695	LEAR	49 GB	2248.0	2253.0U	41.0	11000.0			QL=2 ST=2 TYP=6	
2800	PENT	40 F	2335.0	0010.0	45.0	130.0				

S O L A R R A D I O E M I S S I O N
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APRIL 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		
02	2695	LEAR	4 S/F	2340.0	2345.0	23.0	84.0			QL=2 ST=2 TYP=3
	1415	LEAR	4 S/F	2345.0	2346.0	3.0	230.0			QL=2 ST=2 TYP=3
	4995	LEAR	4 S/F	2345.0	2350.0	7.0	31.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	2348.0	2349.0	1.0	25.0			QL=2 ST=2 TYP=3
03	280	CUBA	44 NS	1400.0E		180.0D		16.0		
	235	CUBA	44 NS	1400.0E		390.0D		6.0		
	245	PALE	43 NS	1954.0	2005.0	12.0	120.0			QL=4 ST=2 TYP=1
	2695	LEAR	4 S/F	0003.0	0010.0	17.0	190.0			QL=2 ST=2 TYP=3
	8800	LEAR	4 S/F	0006.0	0011.0	7.0	39.0			QL=4 ST=2 TYP=3
	1415	LEAR	20 GRF	0006.0	0012.0	13.0	87.0			QL=2 ST=2 TYP=2
	4995	LEAR	20 GRF	0006.0	0011.0	12.0	43.0			QL=2 ST=2 TYP=2
	1415	PALE	8 S	0008.0	0008.0	1.0	59.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	0009.0	0010.0	4.0	150.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0017.0	0017.0	1.0	62.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0017.0	0017.0	U	46.0			QL=4 ST=2 TYP=3
	2695	LEAR	20 GRF	0150.0	0156.0	11.0	74.0			QL=2 ST=2 TYP=2
	1415	PALE	4 S/F	0151.0	0154.0	9.0	190.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0151.0	0154.0	10.0	150.0			QL=2 ST=2 TYP=3
	4995	LEAR	4 S/F	0152.0	0156.0	8.0	65.0			QL=2 ST=2 TYP=3
	8800	LEAR	4 S/F	0153.0	0156.0	5.0	36.0			QL=4 ST=2 TYP=3
	2695	PALE	48 C	0153.0	0157.0	6.0	65.0			QL=4 ST=2 TYP=8
	500	HIRA	46 C	0316.0	0340.0	43.0	255.0			0
	200	HIRA	46 C	0317.0	0321.0	31.0	170.0			0
	4995	LEAR	48 C	0317.0	0340.0	113.0	7300.0			QL=2 ST=2 TYP=8
	245	LEAR	48 C	0318.0	0323.0	23.0	370.0			QL=2 ST=2 TYP=8
	610	PALE	49 GB	0318.0	0340.0	72.0	590.0			QL=4 ST=2 TYP=6
	245	PALE	4 S/F	0318.0	0323.0	72.0	470.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0318.0	0319.0	72.0	97.0			QL=4 ST=2 TYP=3
	8800	LEAR	48 C	0318.0	0340.0	112.0	11000.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0318.0	0340.0	1242.0	420.0			QL=2 ST=1 TYP=8
	15400	LEAR	48 C	0318.0	0326.0	1242.0	5400.0			QL=4 ST=1 TYP=8
	15400	LEAR	48 C	0318.0	0329.0	1242.0	7300.0			QL=4 ST=1 TYP=8
	15400	LEAR	48 C	0318.0	0340.0	1242.0	8400.0			QL=4 ST=1 TYP=8
	410	LEAR	4 S/F	0318.0	0318.0	1242.0	37.0			QL=2 ST=1 TYP=3
	610	LEAR	4 S/F	0318.0	0320.0	1242.0	150.0			QL=2 ST=1 TYP=3
	15400	PALE	49 GB	0320.0	0329.0	10.0	6300.0			QL=4 ST=2 TYP=6
	610	LEAR	48 C	0320.0	0340.0	34.0	420.0			QL=2 ST=2 TYP=8
	4995	PALE	49 GB	0320.0	0340.0	70.0	6600.0			QL=4 ST=2 TYP=6
	2695	LEAR	48 C	0320.0	0341.0	110.0	3900.0			QL=2 ST=2 TYP=8
	1415	PALE	49 GB	0321.0	0340.0	69.0	1300.0			QL=4 ST=2 TYP=6
	2695	PALE	49 GB	0321.0	0340.0	69.0	3300.0			QL=4 ST=2 TYP=6
	8800	PALE	49 GB	0321.0	0340.0	69.0	7900.0			QL=4 ST=2 TYP=6
	1415	LEAR	48 C	0321.0	0341.0	87.0	1000.0			QL=2 ST=2 TYP=8
	15400	LEAR	48 C	0321.0	0340.0	87.0	8400.0			QL=4 ST=2 TYP=8
	410	LEAR	4 S/F	0326.0	0327.0	5.0	68.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	0456.0E	0458.0U	3.0D	73.0			QL=2 ST=2 TYP=3
4995	SVTO	4 S/F	0458.0E	0459.0U	4.0D	81.0			QL=2 ST=2 TYP=3	
15400	SVTO	4 S/F	0458.0E	0459.0U	5.0D	150.0			QL=2 ST=2 TYP=3	
2695	SVTO	4 S/F	0500.0E	0502.0U	4.0D	63.0			QL=2 ST=2 TYP=3	
1415	SVTO	4 S/F	0504.0E	0505.0U	4.0D	29.0			QL=2 ST=2 TYP=3	
2950	GORK	20 GRF	0603.0	0916.3	283.6D	21.0				
9100	GORK	4 S/F	0620.0	0620.5	21.3	23.0				
610	SVTO	8 S	0642.0	0643.0	1.0	290.0				
9100	GORK	1 S	0652.0	0652.9	1.6	6.5				
900	GORK	21 GRF	0657.0	0706.0	9.0	8.0				
9100	GORK	20 GRF	0657.0	0705.0	14.5	16.2				
3000	IZMI	20 GRF	0657.4	0659.8	14.2	11.0	3.0			
900	GORK	8 S	0659.7	0659.8	0.2	5.0				
900	GORK	45 C	0726.0	0739.0		60.0				
900	GORK	45 C	0726.0	0731.5		18.0				
900	GORK	45 C	0726.0	0728.6	24.2	13.0				
3000	IZMI	22 GRF	0734.2	0736.6	11.0	15.0	4.0			
610	SVTO	8 S	0929.0	0929.0	U	56.0				
4995	SGMR	4 S/F	1231.0	1232.0	4.0	58.0				
8800	SGMR	4 S/F	1231.0	1232.0	4.0	51.0				
2695	SVTO	8 S	1232.0	1232.0	U	31.0				
4995	SVTO	8 S	1232.0	1232.0	U	55.0				
8800	SVTO	8 S	1232.0	1232.0	U	55.0				

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

APRIL 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)			
03	8800	SGMR	4 S/F	1303.0	1304.0	5.0	58.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1304.0	1304.0	2.0	15.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1641.0	1641.0	2.0	67.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1647.0	1648.0	18.0	75.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1647.6	1648.6	3.4	22.0	11.0		
	8800	SGMR	4 S/F	1648.0	1648.0	17.0	38.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1648.0	1648.5	2.0	11.0	5.0		00L
	2800	PENT	29 PBI	1732.0	1739.0	46.0	16.0			
	6700	CUBA	2 S/F	1738.0	1740.0	4.0	77.0	38.0		3L
	610	PALE	8 S	1738.0	1738.0	1.0	100.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1738.2	1740.0	3.8	63.0	31.0		
	6700	CUBA	1 S	1847.0	1847.8	3.0	17.0	8.0		00L
	235	CUBA	48 C	1945.0	2004.5	32.6	192.0			
	280	CUBA	48 C	1945.0	2006.8	32.6	196.0			
	245	SGMR	4 S/F	1952.0	1955.0	5.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2004.0	2005.0	2.0	110.0			QL=4 ST=2 TYP=3
04	245	LEAR	43 NS	0330.0	0416.0	130.0	300.0			QL=2 ST=2 TYP=1
	410	LEAR	43 NS	0330.0	0339.0	130.0	73.0			QL=2 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		10.0		
	127	TORN	44 NS	0850.0E		170.0D		210.0		V=1, DISTURBED
	410	SVTO	43 NS	0909.0	0945.0	891.0	280.0			QL=2 ST=1 TYP=1
	245	LEAR	43 NS	0921.0	0935.0	44.0	130.0			QL=2 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		180.0D		9.0		
	280	CUBA	44 NS	1300.0E		180.0D		8.0		
	245	SGMR	43 NS	1745.0	1813.0	55.0	73.0			QL=4 ST=2 TYP=1
	410	LEAR	4 S/F	0131.0	0136.0	7.0	180.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0218.0	0219.0	2.0	49.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0218.0	0219.0	2.0	130.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0218.0	0219.0	2.0	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0258.0	0259.0	2.0	63.0			QL=2 ST=2 TYP=3
	410	LEAR	48 C	0329.0	0338.0	14.0	72.0			QL=2 ST=2 TYP=8
	245	LEAR	48 C	0330.0	0338.0	12.0	80.0			QL=2 ST=2 TYP=8
	610	LEAR	20 GRF	0330.0	0340.0	12.0	59.0			QL=2 ST=2 TYP=2
	410	PALE	20 GRF	0330.0	0338.0	13.0	140.0			QL=4 ST=2 TYP=2
	245	PALE	4 S/F	0331.0	0338.0	13.0	160.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0337.0	0338.0	1.0	26.0			QL=2 ST=2 TYP=3
	410	PALE	20 GRF	0344.0	0412.0	43.0	160.0			QL=4 ST=2 TYP=2
	245	PALE	48 C	0345.0	0415.0	47.0	500.0			QL=4 ST=2 TYP=8
	8800	LEAR	8 S	0346.0	0347.0	2.0	18.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0346.0	0347.0	2.0	74.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0523.0	0527.0	4.0	90.0			WL
	200	HIRA	8 S	0523.0	0523.0	3.0	80.0			0
	610	LEAR	8 S	0523.0	0524.0	2.0	120.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0524.0	0524.0	U	24.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0524.0	0524.0	U	87.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0547.0	0548.0	3.0	71.0			QL=2 ST=2 TYP=3
	8800	LEAR	4 S/F	0547.0	0548.0	6.0	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0547.0	0548.0	3.0	40.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0547.0	0548.0	4.0	70.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0547.0	0548.0	4.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0547.0	0549.0	4.0	48.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0548.0	0549.0	1.0	27.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0600.0	0600.0	3.0	120.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0700.0	0700.0	U	84.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0700.0	0700.0	1.0	150.0			QL=4 ST=2 TYP=3
	9100	GORK	21 GRF	0743.0	0754.0	46.2	17.0			
	9100	GORK	1 S	0750.6	0751.3	0.9	15.0			
	9100	GORK	4 S/F	0815.4	0815.7	0.5	110.0			
9100	GORK	8 S	0821.2	0821.4	0.2	40.0				
204	IZMI	7 C	0842.7	0842.9	0.3	31.0				
4995	SVTO	8 S	0853.0	0854.0	1.0	35.0			QL=4 ST=2 TYP=3	
8800	SVTO	8 S	0853.0	0854.0	1.0	58.0			QL=4 ST=2 TYP=3	
9100	GORK	3 S	0853.6	0855.2	1.6	55.0				
900	GORK	49 GB	0900.0	0945.0	63.0	180.0				
900	GORK	49 GB	0900.0	0954.2		180.0				
900	GORK	49 GB	0900.0	0959.2U		300.0U				
204	IZMI	46 C	0908.6	0940.4	115.9	176.0				
2950	GORK	28 PRE	0912.8	0932.0	19.2	22.0				

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

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APRIL 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		
04	3000	IZMI	46 C	0913.1	0956.8	155.4	233.0	45.0		
	4995	SVTO	4 S/F	0915.0	0917.0	3.0	58.0		QL=4 ST=2 TYP=3	
	9100	GORK	3 S	0915.8	0917.1	3.1	36.0			
	8800	SVTO	8 S	0916.0	0917.0	1.0	43.0		QL=4 ST=2 TYP=3	
	127	TORN	27 RF	0920.0		47.0		710.0		
	245	SVTO	4 S/F	0923.0E	0927.0	98.0D	130.0		QL=2 ST=2 TYP=3	
	9100	GORK	49 GB	0924.6	0959.4		300.0			
	9100	GORK	49 GB	0924.6	0943.7	70.4	180.0			
	4995	SVTO	4 S/F	0925.0E	0937.0	96.0D	210.0		QL=4 ST=2 TYP=3	
	8800	SVTO	4 S/F	0925.0E	0925.0	96.0D	57.0		QL=4 ST=2 TYP=3	
	610	LEAR	4 S/F	0926.0	0927.0	39.0	26.0		QL=2 ST=2 TYP=3	
	410	SVTO	48 C	0926.0E	0933.0	95.0D	110.0		QL=2 ST=2 TYP=8	
	2695	LEAR	48 C	0932.0	0956.0	33.0	360.0		QL=2 ST=2 TYP=8	
	4995	LEAR	48 C	0932.0	0956.0	33.0	370.0		QL=2 ST=2 TYP=8	
	2695	SVTO	48 C	0932.0E	0941.0	89.0D	180.0		QL=4 ST=2 TYP=8	
	2950	GORK	49 GB	0932.0	0934.2U	63.0	115.0U			
	2950	GORK	49 GB	0932.0	0957.7		1200.0			
	2950	GORK	49 GB	0932.0	1031.9		620.0			
	15400	SVTO	4 S/F	0933.0E	0937.0	88.0D	51.0		QL=4 ST=2 TYP=3	
	8800	LEAR	48 C	0936.0	0959.0	29.0	190.0		QL=4 ST=2 TYP=8	
	1415	LEAR	4 S/F	0936.0	0939.0	29.0	34.0		QL=2 ST=2 TYP=3	
	33	UPIC	27 RF	0940.0	1012.5	76.0				
	15400	LEAR	4 S/F	0941.0	0942.0	24.0	44.0		QL=4 ST=2 TYP=3	
	610	SVTO	4 S/F	0942.0E	0942.0	79.0D	150.0		QL=2 ST=2 TYP=3	
	410	LEAR	48 C	0956.0	0959.0	9.0	120.0		QL=2 ST=2 TYP=8	
	900	GORK	30 PBI	1003.8	1003.8	56.2	150.0			
	900	GORK	46 C	1013.0	1026.0		37.0			
	900	GORK	46 C	1013.0	1016.0	33.7	10.0			
	900	GORK	46 C	1013.0	1029.7		56.0			
	900	GORK	46 C	1013.0	1037.8		9.0			
	9100	GORK	29 PBI	1035.0	1035.0	22.0D	90.0			
	204	IZMI	42 SER	1110.1	1111.4	2.5	141.0			
	204	IZMI	41 F	1123.0	1123.1	0.1	145.0			
	204	IZMI	41 F	1131.4	1131.5	0.6	127.0			
	410	SVTO	4 S/F	1152.0	1154.0	8.0	320.0		QL=4 ST=2 TYP=3	
	610	SVTO	4 S/F	1152.0	1154.0	8.0	220.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1153.0	1154.0	2.0	370.0		QL=4 ST=2 TYP=3	
	610	SGMR	8 S	1154.0	1154.0	1.0	240.0		QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	1154.0	1154.0	1.0	44.0		QL=4 ST=2 TYP=3	
	1415	SVTO	4 S/F	1154.0	1154.0	6.0	48.0		QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	1212.0	1213.0	3.0	61.0		QL=4 ST=2 TYP=3	
	4995	SGMR	8 S	1213.0	1213.0	2.0	15.0		QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	1215.0	1217.0	8.0	88.0		QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	1215.0	1217.0	4.0	65.0		QL=4 ST=2 TYP=3		
15400	SVTO	8 S	1216.0	1217.0	2.0	56.0		QL=4 ST=2 TYP=3		
4995	SVTO	4 S/F	1216.0	1218.0	3.0	15.0		QL=4 ST=2 TYP=3		
15400	SGMR	8 S	1217.0	1217.0	1.0	50.0		QL=4 ST=2 TYP=3		
4995	SGMR	4 S/F	1217.0	1218.0	3.0	20.0		QL=4 ST=2 TYP=3		
9500	CUBA	20 GRF	1246.0E	1246.0	116.0D	18.0	9.0			
6700	CUBA	1 S	1415.6	1417.5	4.0	9.0	4.0	00L		
245	SGMR	4 S/F	1523.0	1524.0	5.0	74.0		QL=4 ST=2 TYP=3		
2800	PENT	29 PBI	1614.0	1621.0	18.0U	3.0				
610	SGMR	4 S/F	1928.0	1929.0	5.0	59.0		QL=4 ST=2 TYP=3		
05	245	LEAR	43 NS	0851.0	0919.0	909.0	110.0		QL=2 ST=3 TYP=1	
	204	IZMI	43 NS	1007.0		113.0D		10.0		
	280	CUBA	44 NS	1300.0E		320.4D		17.0		
	235	CUBA	44 NS	1300.0E		530.0D		7.0		
	8800	LEAR	8 S	0206.0	0207.0	2.0	54.0		QL=4 ST=2 TYP=3	
	4995	LEAR	4 S/F	0206.0	0207.0	8.0	59.0		QL=2 ST=2 TYP=3	
	500	HIRA	8 S	0456.0	0457.0	2.0	10.0		0	
	245	LEAR	49 GB	0457.0	0457.0	1.0	520.0		QL=2 ST=2 TYP=6	
	4995	LEAR	8 S	0457.0	0457.0	U	41.0		QL=2 ST=2 TYP=3	
	245	SVTO	8 S	0457.0	0457.0U	U	410.0		QL=4 ST=2 TYP=3	
	204	IZMI	42 SER	0630.8	0633.5	3.7	19.0			
	410	LEAR	8 S	0731.0	0732.0	2.0	52.0		QL=2 ST=2 TYP=3	
	410	SVTO	8 S	0731.0	0731.0	2.0	110.0		QL=4 ST=2 TYP=3	
	500	HIRA	8 S	0732.0	0733.0	2.0	20.0		0	
204	IZMI	42 SER	0741.4	0742.7	4.9	122.0				

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APRIL 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	204	IZMI	42	SER	0750.4	0752.6	2.4	94.0		
	204	IZMI	25	R	0758.0		129.0		30.0	
	245	SVTO	46	C	0820.0	0823.0	4.0	45.0		QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	0820.0	0821.0	3.0	77.0		QL=4 ST=2 TYP=3
	2950	GORK	49	GB	0831.7	0918.2		1500.0		
	2950	GORK	49	GB	0831.7	0839.3	42.1	60.0		
	2950	GORK	49	GB	0831.7	0850.8		77.0U		
	8800	SVTO	8	S	0832.0	0833.0	2.0	53.0		QL=4 ST=3 TYP=3
	15400	SVTO	8	S	0832.0	0833.0	2.0	40.0		QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0832.0	0839.0	8.0	58.0		QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0832.0	0839.0	8.0	53.0		QL=4 ST=2 TYP=3
	9100	GORK	46	C	0832.2	0833.2	2.8	46.0		
	9100	GORK	46	C	0832.2	0833.6		42.0		
	3000	IZMI	46	C	0832.5	0918.2	109.7	1294.0	195.0	
	2695	LEAR	8	S	0833.0	0833.0	1.0	33.0		QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0833.0	0833.0	1.0	29.0		QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0833.0	0833.0		42.0		QL=4 ST=2 TYP=3
	900	GORK	23	GRF	0837.0	0855.0		50.0		
	2695	LEAR	4	S/F	0837.0	0839.0	6.0	68.0		QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	0837.0	0839.0	7.0	36.0		QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0837.0	0839.0	7.0	53.0		QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0837.0	0839.0	3.0	55.0		QL=4 ST=3 TYP=3
	8800	SVTO	4	S/F	0837.0	0839.0	5.0	19.0		QL=4 ST=2 TYP=3
	900	GORK	23	GRF	0837.0	0916.5		80.0		
	900	GORK	23	GRF	0837.0	0850.9	116.0	48.0		
	9100	GORK	2	S/F	0837.3	0839.2	5.5	19.0		
	4995	LEAR	8	S	0838.0	0839.0	2.0	40.0		QL=2 ST=2 TYP=3
	1415	LEAR	4	S/F	0838.0	0839.0	3.0	32.0		QL=2 ST=2 TYP=3
	9100	GORK	49	GB	0845.0	0917.0	45.0	3300.0		
	410	SVTO	4	S/F	0846.0	0847.0	9.0	79.0		QL=4 ST=2 TYP=3
	8800	SVTO	49	GB	0846.0	0917.0	57.0	3200.0		QL=4 ST=2 TYP=6
	2695	LEAR	48	C	0846.0	0918.0	68.0	1200.0		QL=2 ST=2 TYP=8
	4995	LEAR	48	C	0846.0	0916.0	67.0	4200.0		QL=2 ST=2 TYP=8
	4995	SVTO	49	GB	0846.0	0917.0	67.0	5100.0		QL=4 ST=2 TYP=6
	245	SVTO	4	S/F	0847.0	0847.0	33.0	42.0		QL=4 ST=2 TYP=3
	8800	LEAR	48	C	0848.0	0916.0	55.0	4100.0		QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0848.0	0917.0	55.0	1700.0		QL=4 ST=2 TYP=8
	15400	SVTO	49	GB	0848.0	0917.0	55.0	1700.0		QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	0848.0	0918.0	66.0	980.0		QL=4 ST=2 TYP=6
	900	GORK	8	S	0848.6	0848.7	0.2	60.0		
	1415	LEAR	48	C	0849.0	0915.0	55.0	460.0		QL=2 ST=2 TYP=8
	1415	SVTO	49	GB	0849.0	0915.0	55.0	570.0		QL=4 ST=2 TYP=6
	410	LEAR	4	S/F	0850.0	0854.0	5.0	39.0		QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	0850.0	0852.0	5.0	33.0		QL=2 ST=2 TYP=3
	610	SVTO	4	S/F	0850.0	0852.0	5.0	36.0		QL=4 ST=2 TYP=3
	127	TORN	27	RF	0857.0		13.0		20.0	
	127	TORN	4	S/F	0857.8	0858.8	2.5	150.0	70.0	
	204	IZMI	41	F	0912.7	0913.6	2.5	94.0		
	33	UPIC	46	C	0913.5	0915.0	3.5			
	245	LEAR	8	S	0919.0	0919.0	1.0	45.0		QL=2 ST=2 TYP=3
204	IZMI	46	C	0924.2	0929.7	30.3	114.0			
9100	GORK	30	PBI	0930.0	0930.0	90.0D	700.0			
245	SVTO	8	S	0944.0	0944.0		75.0		QL=4 ST=2 TYP=3	
2950	GORK	29	PBI	1013.8	1013.8	46.2D	100.0			
9100	GORK	40	F	1054.1	1054.7	0.7	70.0			
2800	PENT	47	GB	1628.0		64.0U				
235	CUBA	49	GB	1629.6	1700.0	84.9	487.0			
280	CUBA	49	GB	1629.6	1702.2	84.9				
6700	CUBA	21	GRF	1631.0	2125.0	358.0D	136.0	68.0	13R SUNSET	
245	SGMR	48	C	1635.0E	1705.0	86.0D	1000.0		QL=4 ST=2 TYP=8	
1415	SGMR	48	C	1635.0	1701.0	86.0	1200.0		QL=4 ST=2 TYP=8	
2695	SGMR	48	C	1635.0	1700.0	86.0	2800.0		QL=4 ST=2 TYP=8	
410	SGMR	49	GB	1635.0E	1701.0	87.0D	4000.0		QL=4 ST=2 TYP=6	
8800	SGMR	48	C	1635.0	1700.0	90.0	6600.0		QL=4 ST=2 TYP=8	
15400	SGMR	49	GB	1635.0E	1700.0	90.0D	4600.0		QL=4 ST=2 TYP=6	
9500	CUBA	21	GRF	1635.0	2127.0	355.0D	116.0	58.0	SUNSET	
610	SGMR	48	C	1636.0	1702.0	85.0	2000.0		QL=4 ST=2 TYP=8	
4995	SGMR	48	C	1636.0	1700.0	89.0	5900.0		QL=4 ST=2 TYP=8	
6700	CUBA	47	GB	1636.2	1700.0	78.8	6570.0	3285.0	5R	

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Outstanding Occurrences

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
05	9500	CUBA	47 GB	1636.2	1700.0	71.8	3101.0	1550.0		
	4995	PALE	49 GB	1645.0	1700.0	46.0	5300.0			QL=4 ST=2 TYP=6
	1415	PALE	48 C	1646.0	1703.0	71.0	2000.0			QL=4 ST=2 TYP=8
	2695	PALE	48 C	1647.0	1701.0	84.0	2900.0			QL=4 ST=2 TYP=8
	8800	PALE	49 GB	1648.0	1700.0	27.0	2500.0			QL=4 ST=2 TYP=6
	15400	PALE	49 GB	1649.0	1700.0	33.0	4200.0			QL=4 ST=2 TYP=6
	245	PALE	48 C	1649.0	1705.0	52.0	770.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	1649.0	1702.0	61.0	1500.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	1651.0	1701.0	62.0	2200.0			QL=4 ST=2 TYP=8
	6700	CUBA	47 GB	2015.0	2022.0	53.0	518.0	259.0		27R
	9500	CUBA	46 C	2015.0	2022.0	59.0	284.0	142.0		
	610	PALE	48 C	2016.0	2021.0	17.0	96.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	2016.0	2021.0	40.0	100.0			QL=4 ST=2 TYP=8
	2695	PALE	49 GB	2016.0	2024.0	107.0	700.0			QL=4 ST=2 TYP=6
	2695	SGMR	49 GB	2016.0	2023.0	108.0	660.0			QL=4 ST=2 TYP=6
	4995	SGMR	49 GB	2016.0	2022.0	108.0	690.0			QL=4 ST=2 TYP=6
	1415	PALE	20 GRF	2016.0	2025.0	119.0	480.0			QL=4 ST=2 TYP=2
	1415	SGMR	20 GRF	2016.0	2025.0	111.0	490.0			QL=4 ST=2 TYP=2
	410	SGMR	20 GRF	2017.0	2022.0	33.0	48.0			QL=4 ST=2 TYP=2
	8800	SGMR	20 GRF	2017.0	2022.0	107.0	380.0			QL=4 ST=2 TYP=2
	15400	SGMR	4 S/F	2017.0	2022.0	107.0	230.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2018.0	2022.0	35.0	350.0			QL=4 ST=2 TYP=3
	15400	PALE	20 GRF	2019.0	2022.0	17.0	120.0			QL=4 ST=2 TYP=2
	8800	PALE	4 S/F	2021.0	2023.0	4.0	66.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2026.0	2026.0		42.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2112.0	2134.0	56.0	110.0			QL=4 ST=3 TYP=3
	610	SGMR	4 S/F	2114.0	2134.0	53.0	110.0			QL=4 ST=3 TYP=3
2800	PENT	47 GB	2232.0E	2232.0U	1.0U					
200	HIRA	8 S	2316.0	2316.0	1.0	25.0			0	
06	8800	LEAR	43 NS	0059.0	0109.0	149.0	40.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		11.0		
	280	CUBA	44 NS	1300.0E		530.0D		11.0		
	410	PALE	43 NS	1723.0	1757.0	57.0	310.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1723.0	1759.0	200.0	500.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1738.0	1757.0	170.0	360.0			QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1743.0	1800.0	35.0	370.0			QL=4 ST=2 TYP=1
	610	SGMR	43 NS	1756.0	1758.0	3.0	72.0			QL=4 ST=2 TYP=1
	410	LEAR	43 NS	2249.0	2311.0U	92.0	360.0			QL=2 ST=2 TYP=1
	245	LEAR	43 NS	2249.0	2306.0U	195.0	620.0			QL=2 ST=2 TYP=1
	410	PALE	43 NS	2250.0	2259.0	70.0	910.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2250.0	2250.0	117.0	1000.0			QL=4 ST=2 TYP=1
	610	PALE	43 NS	2306.0	2305.0	54.0	70.0			QL=4 ST=2 TYP=1
	610	LEAR	43 NS	2355.0	2307.0	14.0	130.0			QL=2 ST=2 TYP=1
	4995	LEAR	8 S	0147.0	0147.0	1.0	87.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0147.0	0147.0	1.0	160.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0147.0	0147.0	1.0	290.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0147.0	0147.0	2.0	320.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0147.0	0147.0	4.0	80.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0147.0	0147.0	4.0	150.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0323.0	0323.0	2.0	95.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0717.2	0718.3	1.3	51.0			
	204	IZMI	7 C	0910.3	0910.4	0.2	11.0			
	6700	CUBA	21 GRF	1709.0	2013.0	261.0	72.0	36.0		5L
	9500	CUBA	21 GRF	1712.0	1734.0	308.0D	41.0	20.0		SUNSET
	235	CUBA	49 GB	1719.0	1935.0U	271.0	6350.0			
	280	CUBA	49 GB	1719.0	1935.0U	271.0	2375.0			
	245	PALE	8 S	1723.0	1723.0	1.0	89.0			QL=4 ST=2 TYP=3
	2800	PENT	40 F	1729.0	1802.0	82.0	16.0			
	245	SGMR	4 S/F	1733.0	1734.0	5.0	150.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1733.0	1733.0	5.0	120.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1734.0	1734.0	4.0	57.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1735.0	1735.0		53.0			QL=4 ST=2 TYP=3
610	SGMR	48 C	1757.0	1802.0	11.0	170.0			QL=4 ST=2 TYP=8	
245	PALE	48 C	1759.0	1803.0	9.0	2600.0			QL=4 ST=2 TYP=8	
610	PALE	48 C	1759.0	1802.0	5.0	150.0			QL=4 ST=2 TYP=8	
245	SGMR	48 C	1759.0	1802.0	9.0	2700.0			QL=4 ST=2 TYP=8	
1415	SGMR	4 S/F	1759.0	1759.0	9.0	59.0			QL=4 ST=2 TYP=3	
410	PALE	49 GB	1800.0	1802.0	4.0	1100.0			QL=4 ST=2 TYP=6	

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

APRIL 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		
06	410	SGMR	49 GB	1800.0	1802.0	8.0	980.0			QL=4 ST=2 TYP=6
	6700	CUBA	31 ABS	1828.0	1855.2	44.0		9.0		5L
	9500	CUBA	31 ABS	1859.0	1859.0	47.0	23.0	6.0		
	2800	PENT	47 GB	1909.0		203.0U				
	9500	CUBA	47 GB	1912.0	1919.0	65.4	2522.0	1261.0		
	9500	CUBA	47 GB	1912.0	1935.0	65.4	2064.0	1032.0		
	6700	CUBA	47 GB	1912.0	1919.1	61.5	3675.0	1837.0		
	8800	PALE	49 GB	1913.0	1919.0	55.0	3900.0			4R COMPLEXPOL
	15400	PALE	49 GB	1913.0	1919.0	55.0	7500.0			QL=4 ST=2 TYP=6
	4995	PALE	49 GB	1913.0	1935.0	62.0	3300.0			QL=4 ST=2 TYP=6
	410	PALE	48 C	1913.0	1936.0	75.0	38000.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	1913.0	1932.0	75.0	45000.0			QL=4 ST=2 TYP=8
	1415	PALE	48 C	1913.0	1932.0	70.0	5600.0			QL=4 ST=2 TYP=8
	2695	PALE	49 GB	1913.0	1922.0	71.0	4100.0			QL=4 ST=2 TYP=6
	410	SGMR	48 C	1913.0	1936.0	76.0	61000.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	1913.0	1931.0	76.0	44000.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1913.0	1932.0	76.0	6000.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1913.0	1922.0	76.0	3300.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1913.0	1935.0	76.0	3500.0			QL=4 ST=2 TYP=8
	8800	SGMR	49 GB	1913.0	1918.0	72.0	3600.0			QL=4 ST=2 TYP=6
	15400	SGMR	49 GB	1913.0	1918.0	76.0	6700.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	1914.0	1915.0	12.0				QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1914.0	1915.0	75.0				QL=4 ST=2 TYP=6
	9500	CUBA	29 PBI	2017.2		72.8	55.0	27.0		
	410	PALE	8 S	2047.0	2047.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	2047.0	2048.0	5.0	210.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2047.0	2047.0	5.0	100.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	2110.0	2113.0	10.0	360.0			QL=4 ST=2 TYP=8
	245	PALE	4 S/F	2111.0	2112.0	10.0	270.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	2111.0	2112.0	14.0	230.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	2111.0	2113.0	14.0	340.0			QL=4 ST=2 TYP=8
	610	PALE	4 S/F	2113.0	2115.0	3.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	48 C	2113.0	2120.0	12.0	310.0			QL=4 ST=2 TYP=8
	610	PALE	4 S/F	2123.0	2125.0	3.0	260.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2125.0	2125.0	1.0	91.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2125.0	2125.0	4.0	90.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	2125.0	2125.0	4.0	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2135.0	2135.0	U	70.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	2142.0	2145.0	11.0	170.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	2144.0	2147.0	9.0	140.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	2156.0	2210.0	38.0	27000.0			QL=2 ST=2 TYP=8
	410	PALE	48 C	2156.0	2210.0	46.0	26000.0			QL=4 ST=2 TYP=8
245	PALE	48 C	2157.0	2213.0	39.0	1100.0			QL=4 ST=2 TYP=8	
610	PALE	48 C	2157.0	2207.0	30.0	3200.0			QL=4 ST=2 TYP=8	
245	SGMR	48 C	2157.0	2216.0	37.0	1200.0			QL=2 ST=2 TYP=8	
610	SGMR	48 C	2157.0	2207.0	37.0	2300.0			QL=2 ST=2 TYP=8	
4995	PALE	8 S	2228.0	2228.0	U	63.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	2228.0	2228.0	1.0	62.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2241.0	2242.0	2.0	110.0			QL=2 ST=2 TYP=3	
245	PALE	8 S	2242.0	2242.0	1.0	250.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2242.0	2242.0	2.0	77.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	2242.0	2242.0	2.0	64.0			QL=4 ST=2 TYP=3	
07	204	IZMI	44 NS	0600.0E		360.0D		15.0		
	127	TORN	44 NS	0900.0E		150.0D		7.0		V=2
	245	SVTO	43 NS	0951.0	1041.0	87.0	120.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1037.0E	1053.0U	38.0D	66.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		9.0		
	280	CUBA	44 NS	1300.0E		530.0D		16.0		
	200	HIRA	8 S	0304.0	0304.0	1.0	30.0			0
	900	GORK	1 S	0551.4	0553.1	3.4	5.0			
	2950	GORK	42 SER	0554.1	0555.4	9.6	7.6			
	2950	GORK	42 SER	0554.1	0602.5		3.8			
	9100	GORK	1 S	0632.8	0633.5	1.5	11.0			
	204	IZMI	25 R	0921.0		119.0		70.0		
	3000	IZMI	20 GRF	0926.9	0937.2	10.3	9.0	5.0		
3000	IZMI	1 S	1114.3	1114.4	0.2	11.0	4.0			
204	IZMI	42 SER	1126.0	1126.4	0.8	64.0				
245	SGMR	8 S	1239.0	1239.0	U	58.0			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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Apr 01

APRIL 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		
07	245	SVTO	8 S	1239.0	1239.0	U	50.0			QL=2 ST=2 TYP=3
08	410	LEAR	43 NS	0405.0	0411.0	1195.0	85.0			QL=2 ST=1 TYP=1
	204	IZMI	43 NS	0600.0		360.0D		20.0		
	127	TORN	43 NS	0820.0		320.0		7.0		V=1
	235	CUBA	44 NS	1400.0E		470.0D		7.0		
	280	CUBA	44 NS	1400.0E		470.0D		11.0		
	245	LEAR	43 NS	2336.0	0427.0	625.0	1100.0			QL=2 ST=2 TYP=1
	200	HIRA	8 S	0128.0	0128.0	1.0	10.0			0
	200	HIRA	8 S	0247.0	0248.0	2.0	20.0			0
	204	IZMI	25 R	0820.0		68.0		40.0		
	204	IZMI	42 SER	0837.9	0838.4	1.5	121.0			
	245	LEAR	8 S	0838.0	0838.0	1.0	170.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0838.0	0838.0	1.0	150.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0848.5	0849.8	1.6	102.0			
	2800	PENT	1 S	1657.0	1659.0	4.0	4.0			
	2800	PENT	29 PBI	2329.0	2335.0	76.0	15.0			
	245	PALE	8 S	2335.0	2336.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2339.0	2340.0	1.0	560.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	2339.0	2340.0	1.0	190.0			QL=4 ST=2 TYP=3
09	245	PALE	43 NS	0006.0	0007.0	1434.0	90.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	0006.0	0403.0	1434.0	950.0			QL=4 ST=1 TYP=1
	410	LEAR	43 NS	0405.0	0411.0	137.0	85.0			QL=2 ST=2 TYP=1
	410	SVTO	43 NS	0441.0	0457.0U	247.0	290.0			QL=2 ST=2 TYP=1
	245	SVTO	43 NS	0441.0	0446.0U	1159.0	690.0			QL=2 ST=1 TYP=1
	245	SVTO	43 NS	0441.0	0455.0U	1159.0	960.0			QL=2 ST=1 TYP=1
	204	IZMI	44 NS	0614.0E		136.0D		680.0		
	127	TORN	44 NS	0630.0E		510.0D		1300.0		V=1
	204	IZMI	44 NS	0830.0E		210.0D		340.0		
	245	SGMR	43 NS	1046.0	1400.0	653.0	880.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	1121.0	1121.0	7.0	120.0			QL=2 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D				
	280	CUBA	44 NS	1300.0E		530.0D		33.0		
	410	SVTO	43 NS	1452.0	1352.0	1403.0	130.0			QL=2 ST=2 TYP=1
	245	PALE	43 NS	1650.0	1735.0	312.0	120.0			QL=4 ST=2 TYP=1
	6700	CUBA	47 GB		1530.5		5068.0	2534.0		
	410	LEAR	4 S/F	0021.0	0023.0	4.0	110.0			QL=2 ST=2 TYP=3
	610	LEAR	4 S/F	0022.0	0024.0	3.0	94.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0022.0	0023.0	2.0	140.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0023.0	0024.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0026.0	0027.0	1.0	1.0			QL=2 ST=2 TYP=3
	610	LEAR	4 S/F	0101.0	0104.0	5.0	76.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0102.0	0103.0	1.0	64.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0102.0	0102.0	1.0	29.0			QL=2 ST=2 TYP=3
	410	PALE	45 C	0107.0	0238.0	178.0				QL=2 ST=2 TYP=8
	610	LEAR	48 C	0108.0	0230.0	139.0	51000.0			QL=2 ST=2 TYP=8
	500	HIRA	47 GB	0109.0	0246.0	113.0	1200.0			0
	610	PALE	48 C	0110.0	0230.0	140.0	82000.0			QL=2 ST=2 TYP=8
	410	LEAR	48 C	0111.0	0246.0	174.0	87000.0			QL=2 ST=2 TYP=8
	200	HIRA	46 C	0113.0	0213.0	150.0	85.0			WL
	245	LEAR	45 C	0113.0	0246.0	172.0				QL=2 ST=2 TYP=8
	245	PALE	49 GB	0113.0	0113.0	172.0				QL=2 ST=2 TYP=6
	1415	LEAR	48 C	0117.0	0238.0	110.0	27000.0			QL=2 ST=2 TYP=8
	1415	PALE	4 S/F	0118.0	0120.0	109.0	20000.0			QL=2 ST=2 TYP=3
	2800	HIRA	46 C	0129.0	0219.0	131.0	285.0			0
	2695	LEAR	48 C	0142.0	0218.0	83.0	350.0			QL=2 ST=2 TYP=8
	2695	PALE	48 C	0145.0	0218.0	81.0	310.0			QL=2 ST=2 TYP=8
	4995	LEAR	48 C	0145.0	0215.0	94.0	200.0			QL=2 ST=2 TYP=8
	8800	LEAR	48 C	0146.0	0215.0	84.0	110.0			QL=4 ST=2 TYP=8
	2800	HIRA	8 S	0148.0	0149.0	1.0	305.0			SR
	4995	PALE	48 C	0151.0	0215.0	89.0	210.0			QL=2 ST=2 TYP=8
	15400	LEAR	4 S/F	0159.0	0200.0	1321.0	28.0			QL=4 ST=1 TYP=3
900	GORK	46 C	0611.0	0611.3	0.9	34.0				
900	GORK	46 C	0611.0	0611.6		45.0				
9100	GORK	21 GRF	0643.0	0656.4	22.5	22.0				
2950	GORK	45 C	0643.7	0647.3	8.5	6.1				
2950	GORK	45 C	0643.7	0651.4		11.0				
2950	GORK	45 C	0643.7	0649.8		4.9				

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

APRIL 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	3000	IZMI	22 GRF	0646.4	0651.4	12.0	24.0	10.0		
	900	GORK	46 C	0650.6	0651.3	1.4	80.0			
	9100	GORK	3 S	0650.6	0651.4	3.0	50.0			
	4995	LEAR	8 S	0651.0	0651.0	1.0	39.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0651.0	0651.0	1.0	59.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0654.3	0655.0	1.9	14.0			
	204	IZMI	41 F	0904.4	0904.9	0.6	546.0			
	9100	GORK	21 GRF	0915.0	0926.2	33.0	27.0			
	9100	GORK	1 S	0916.4	0916.7	1.0	9.6			
	2950	GORK	20 GRF	0921.5	0927.8	29.5	5.0			
	9100	GORK	3 S	0922.6	0923.4	2.6	56.0			
	900	GORK	42 SER	0948.3	0949.2	8.6	42.0			
	900	GORK	42 SER	0948.3	0956.2		34.0			
	410	SGMR	8 S	1112.0	1113.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1112.0	1113.0	1.0	240.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1126.0	1126.0	2.0	880.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1126.0	1126.0	2.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1126.0	1126.0	1.0	700.0			QL=2 ST=2 TYP=6
	410	SVTO	8 S	1126.0	1126.0	1.0	200.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	1126.0	1126.0	1.0	40.0			QL=2 ST=2 TYP=3
	204	IZMI	46 C	1126.0	1126.7	1.6	1152.0			
	3000	IZMI	7 C	1126.0	1126.9	1.7	51.0	8.0		
	410	SGMR	48 C	1352.0	1358.0	7.0	330.0			QL=4 ST=2 TYP=8
	245	SGMR	49 GB	1352.0	1353.0	7.0	770.0			QL=4 ST=2 TYP=6
	410	SVTO	49 GB	1356.0	1358.0	2.0	530.0			QL=4 ST=3 TYP=6
	610	SVTO	8 S	1356.0	1357.0	2.0	70.0			QL=4 ST=3 TYP=3
	2695	SVTO	8 S	1356.0	1357.0	2.0	51.0			QL=4 ST=3 TYP=3
	610	SGMR	8 S	1357.0	1357.0	2.0	89.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1357.0	1357.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1357.0	1400.0	3.0	560.0			QL=4 ST=3 TYP=6
	6700	CUBA	2 S/F	1357.2	1358.2	2.0	20.0	10.0		29R
	2800	PENT	47 GB	1517.0	1536.0	19.0	1528.0			
	9500	CUBA	21 GRF	1521.0	1544.0	89.0	99.0	49.0		
	6700	CUBA	21 GRF	1521.0	1545.0	153.0	465.0	232.0		00L
	4995	SVTO	48 C	1522.0	1535.0	47.0	3600.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1522.0	1530.0	47.0	5400.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1522.0	1535.0	52.0	3800.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1522.0	1530.0	52.0	5300.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1522.0	1526.0	52.0	5900.0			QL=4 ST=2 TYP=8
	235	CUBA	49 GB	1522.5	1529.0	30.5	5358.0			
	280	CUBA	49 GB	1522.5	1529.0	30.5	1553.0			
	6700	CUBA	47 GB	1522.8	1536.2	41.0	5657.0	2828.0		12R
	2695	SVTO	48 C	1523.0	1537.0	46.0	1600.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1523.0	1537.0	51.0	1600.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1523.0	1526.0	51.0	5700.0			QL=4 ST=2 TYP=8
9500	CUBA	47 GB	1523.3	1530.4	19.7	3137.0	1568.0			
33	UPIC	32 ABS	1524.0		62.0					
245	SVTO	48 C	1524.0	1529.0	29.0	6400.0			QL=2 ST=2 TYP=8	
410	SVTO	48 C	1524.0	1547.0	42.0	4800.0			QL=4 ST=2 TYP=8	
610	SVTO	49 GB	1524.0	1528.0	44.0	30000.0			QL=4 ST=2 TYP=6	
1415	SVTO	49 GB	1524.0	1526.0	42.0	4400.0			QL=4 ST=2 TYP=6	
245	SGMR	48 C	1524.0	1529.0	50.0	6700.0			QL=2 ST=3 TYP=8	
410	SGMR	48 C	1524.0	1547.0	50.0	5100.0			QL=4 ST=2 TYP=8	
610	SGMR	49 GB	1524.0	1530.0	50.0	39000.0			QL=4 ST=2 TYP=6	
1415	SGMR	49 GB	1524.0	1526.0	50.0	4500.0			QL=4 ST=2 TYP=6	
33	UPIC	48 C	1528.5		18.5					
2800	PENT	1 S	1823.0	1826.0	6.0	7.0				
6700	CUBA	1 S	1826.2	1826.5	0.8	18.0	9.0		11R	
10	204	IZMI	44 NS	0600.0E		223.0D		280.0		
	410	LEAR	43 NS	0743.0	0922.0	137.0	150.0			QL=2 ST=2 TYP=1
	245	SVTO	43 NS	0743.0	0755.0	265.0	720.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	0743.0	0916.0	265.0	500.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0800.0E		150.0D		30.0		V=1
	610	SVTO	43 NS	0914.0	1050.0	174.0	170.0			QL=4 ST=2 TYP=1
	610	LEAR	43 NS	0919.0	0919.0	41.0	56.0			QL=2 ST=2 TYP=1
	204	IZMI	44 NS	0943.0E		137.0D		60.0		
	245	SGMR	43 NS	1050.0	1351.0	271.0	120.0			QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1056.0	1357.0	271.0	150.0			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

31
Apr 01

APRIL 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	235	CUBA	44 NS	1300.0E		530.0D		12.0		
	280	CUBA	44 NS	1300.0E		530.0D		31.0		
	610	SGMR	43 NS	1448.0	1449.0	25.0	220.0			QL=4 ST=2 TYP=1
	610	SGMR	43 NS	1843.0	1905.0	43.0	180.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1843.0	1935.0	71.0	270.0			QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1843.0	1935.0	71.0	210.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0053.0	0053.0	1.0	60.0			QL=2 ST=2 TYP=3
	200	HIRA	8 S	0136.0	0136.0	1.0	15.0			0
	245	LEAR	4 S/F	0258.0	0258.0	3.0	150.0			QL=2 ST=2 TYP=3
	245	SVTO	48 C	0451.0	0648.0	172.0	10000.0			QL=4 ST=2 TYP=8
	410	SVTO	45 C	0503.0	0612.0	160.0				QL=4 ST=2 TYP=8
	200	HIRA	47 GB	0504.0	0526.0		460.0			ML
	33	UPIC	46 C	0504.0	0516.0	30.5				
	500	HIRA	47 GB	0504.0	0539.0	116.0	2850.0			0
	410	LEAR	4 S/F	0504.0	0505.0	1136.0	82.0			QL=2 ST=1 TYP=3
	610	LEAR	4 S/F	0504.0	0505.0	1136.0	49.0			QL=2 ST=1 TYP=3
	1415	LEAR	4 S/F	0504.0	0505.0	1136.0	61.0			QL=2 ST=1 TYP=3
	2695	LEAR	4 S/F	0504.0	0505.0	1136.0	30.0			QL=2 ST=1 TYP=3
	610	SVTO	4 S/F	0504.0	0505.0	1136.0	44.0			QL=4 ST=1 TYP=3
	1415	SVTO	4 S/F	0504.0	0505.0	1136.0	61.0			QL=4 ST=1 TYP=3
	900	GORK	47 GB	0504.2E	0613.0	73.7D	5100.0			
	2950	GORK	49 GB	0504.4	0525.8	36.7	5400.0			
	1415	SVTO	48 C	0506.0	0509.0	112.0	2500.0			QL=4 ST=2 TYP=8
	2800	HIRA	47 GB	0508.0	0526.0	58.0	3310.0			0
	8800	LEAR	48 C	0509.0	0522.0	118.0	6900.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	0509.0	0510.0	118.0	4000.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	0509.0	0523.0	117.0	5400.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	0509.0	0523.0	118.0	6000.0			QL=4 ST=2 TYP=8
	9100	GORK	47 GB	0509.3	0523.1	40.9	4800.0			
	15400	LEAR	48 C	0510.0	0523.0	101.0	5000.0			QL=2 ST=2 TYP=8
	15400	LEAR	48 C	0510.0	0523.0	101.0	5000.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	0511.0	0523.0	98.0	3600.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	0524.0	0612.0	102.0	11000.0			QL=2 ST=2 TYP=8
	410	LEAR	48 C	0524.0	0612.0	139.0	55000.0			QL=2 ST=2 TYP=8
	2950	GORK	30 PBI	0541.1	0541.1	78.9	480.0			
	9100	GORK	30 PBI	0550.2	0550.2	39.8	200.0			
	3000	IZMI	45 C	0602.1	0608.7	14.3	47.0	16.0		
	204	IZMI	45 C	0606.0	0612.3	8.2	4173.0			
	2950	GORK	4 S/F	0606.4	0608.8	16.4	33.0			
	9100	GORK	3 S	0607.2	0608.5	5.3	18.0			
	900	GORK	30 PBI	0617.9	0617.9	34.6	430.0			
	204	IZMI	46 C	0629.4	0657.9	37.7	4294.0			
	2950	GORK	1 S	0634.5	0638.3	7.5	67.0			
	3000	IZMI	20 GRF	0636.6	0638.5	4.6	10.0	5.0		
	900	GORK	46 C	0637.7	0639.4		36.0			
	900	GORK	46 C	0637.7	0637.8	3.6	37.0			
	900	GORK	46 C	0645.1	0646.6	7.0	36.0			
	900	GORK	46 C	0645.1	0648.6		45.0			
	900	GORK	46 C	0645.1	0648.8		100.0			
	33	UPIC	42 SER	0648.0	0657.5	29.0				
900	GORK	40 F	0652.5	1057.0		29.0				
900	GORK	40 F	0652.5	1043.3		20.0				
900	GORK	40 F	0652.5	1057.4		20.0				
900	GORK	40 F	0652.5	1053.8		12.0				
900	GORK	40 F	0652.5	1042.9	247.0D	16.0				
9100	GORK	46 C	0656.9	0657.4	1.0	15.0				
2950	GORK	2 S/F	0657.0	0657.4	1.8	9.1				
3000	IZMI	7 C	0657.0	0657.4	0.7	15.0	7.0			
204	IZMI	45 C	0712.4	0720.1	13.2	1082.0				
204	IZMI	42 SER	0747.2	0747.4	2.7	1036.0				
204	IZMI	42 SER	0947.6	0951.7	7.6	90.0				
204	IZMI	42 SER	1115.4	1134.5	19.8	115.0				
204	IZMI	41 F	1144.6	1144.7	0.3	87.0				
610	SGMR	8 S	1350.0	1350.0		59.0			QL=4 ST=2 TYP=3	
2800	PENT	40 F	1437.0	1448.0	24.0	33.0				
6700	CUBA	22 GRF	1442.0	1453.0	59.0	20.0	10.0		16L	
9500	CUBA	1 S	1444.5	1445.2	3.0	6.0	3.0			
610	SGMR	8 S	1752.0	1753.0	1.0	120.0			QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	1811.0	1837.0	81.0U	23.0				

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

APRIL 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	235	CUBA	27 RF	1815.0	1935.0	161.0	103.0			
	280	CUBA	27 RF	1815.0	1935.0	161.0D	228.0			
	6700	CUBA	22 GRF	1824.0	1911.0	80.0	14.0	7.0		63R
	9500	CUBA	21 GRF	1825.0	1911.0	113.0	12.0	6.0		
	410	PALE	8 S	1826.0	1826.0	2.0	100.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1826.0	1827.0	5.0	91.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1826.0	1827.0	5.0	60.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1827.0	1828.0	3.0	3.0	1.0		
	610	PALE	8 S	1827.0	1827.0	U	63.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1835.2	1836.4	4.0	2.0	1.0		
	610	PALE	8 S	1836.0	1836.0	1.0	66.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1836.0	1836.0	5.0	64.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1842.0	1843.0	2.0	51.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1843.0	1843.0	1.0	57.0			QL=4 ST=2 TYP=3
2800	PENT	29 PBI	2100.0	2103.0	29.0	6.0				
11	127	TORN	44 NS	0820.0E		400.0D		40.0		V=1,DISTURBED
	245	SGMR	43 NS	1354.0	1357.0	47.0	270.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1600.0E		350.0D		10.0		
	280	CUBA	44 NS	1600.0E		350.0D		16.0		
	2800	PENT	1 S	0024.0	0028.0	7.0	7.0			
	200	HIRA	8 S	0026.0	0027.0	1.0	30.0			0
	245	PALE	49 GB	0027.0	0027.0	1.0	100.0			QL=2 ST=3 TYP=6
	245	LEAR	8 S	0028.0	0028.0	U	52.0			QL=2 ST=2 TYP=3
	9100	GORK	1 S	0636.0	0637.1	3.0	16.0			
	204	IZMI	42 SER	0748.9	0749.2	1.4	32.0			
	900	GORK	46 C	0801.8	0805.1	5.9	36.0			
	900	GORK	46 C	0801.8	0805.6		33.0			
	9100	GORK	1 S	0844.8	0845.2	1.2	8.0			
	204	IZMI	7 C	0906.8	0906.9	0.6	24.0			
	9100	GORK	1 S	0919.1	0919.5	0.8	6.4			
	33	UPIC	3 S	1012.0	1012.5	1.0				
	33	UPIC	45 C	1022.0	1024.0	3.0				
	9500	CUBA	47 GB	1257.0	1317.4	27.0	2664.0	832.0		
	127	TORN	4 S/F	1258.4	1258.9	2.1	16500.0	1000.0		
	8800	SVTO	48 C	1259.0	1317.0	36.0	1900.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	1259.0	1317.0	41.0	1600.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1259.0	1318.0	55.0	12000.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1259.0	1317.0	55.0	1700.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1259.0	1317.0	62.0	1200.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	1259.0	1318.0	72.0	12000.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1300.0	1318.0	54.0	3100.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	1300.0	1323.0	62.0	6400.0			QL=2 ST=2 TYP=8
	1415	SVTO	48 C	1300.0	1316.0	62.0	740.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1300.0	1317.0	64.0	540.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	1300.0	1317.0	72.0	2900.0			QL=4 ST=2 TYP=8
33	UPIC	49 GB	1300.0	1301.0	100.0					
127	TORN	27 RF	1300.5		65.5		1520.0D			
2695	SGMR	48 C	1301.0	1317.0	53.0	530.0			QL=4 ST=2 TYP=8	
1415	SGMR	48 C	1303.0	1316.0	51.0	670.0			QL=4 ST=2 TYP=8	
15400	SGMR	48 C	1303.0	1317.0	51.0	1300.0			QL=4 ST=2 TYP=8	
4995	SGMR	48 C	1303.0	1311.0	657.0	190.0			QL=4 ST=1 TYP=8	
610	SGMR	48 C	1305.0	1323.0	49.0	7800.0			QL=4 ST=2 TYP=8	
6700	CUBA	47 GB	1310.0	1318.0	20.8	2100.0	1050.0		5R	
9500	CUBA	29 PBI	1324.0		80.0	247.0	123.0			
6700	CUBA	29 PBI	1330.8		57.2	514.0	257.0		2R	
410	SGMR	4 S/F	1354.0	1358.0	14.0	240.0			QL=4 ST=2 TYP=3	
610	SGMR	4 S/F	1354.0	1357.0	14.0	79.0			QL=4 ST=2 TYP=3	
1415	SGMR	4 S/F	1355.0	1358.0	11.0	110.0			QL=4 ST=2 TYP=3	
33	UPIC	29 PBI	1440.0	1445.5	79.0					
6700	CUBA	20 GRF	1529.0	1554.0	96.0	21.0	10.0		00L	
2800	PENT	29 PBI	2346.0	2359.0	93.0U	15.0				
12	204	IZMI	43 NS	0906.0		149.0		15.0		
	127	TORN	44 NS	0930.0E		330.0D		80.0		V=1,DISTURBED
	245	SVTO	43 NS	1210.0	1215.0	20.0	130.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		8.0		
	280	CUBA	44 NS	1300.0E		530.0D		14.0		
	15400	LEAR	49 GB	0259.0	0301.0	9.0	640.0			QL=4 ST=2 TYP=6

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

APRIL 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			
12	8800	LEAR	49 GB	0300.0	0301.0	5.0	560.0			QL=4 ST=2 TYP=6	
	4995	LEAR	4 S/F	0300.0	0301.0	7.0	210.0			QL=2 ST=2 TYP=3	
	8800	PALE	49 GB	0300.0	0301.0	4.0	500.0			QL=4 ST=2 TYP=6	
	15400	PALE	49 GB	0300.0	0301.0	4.0	650.0			QL=4 ST=2 TYP=6	
	4995	PALE	4 S/F	0300.0	0301.0	5.0	220.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0840.0	0841.0	1.0	120.0			QL=4 ST=2 TYP=3	
	3000	IZMI	20 GRF	0940.1	0944.3	9.3	12.0	5.0			
	3000	IZMI	46 C	1001.2	1017.3	41.7	995.0	226.0			
	9100	GORK	48 C	1009.0	1020.5		4800.0				
	9100	GORK	48 C	1009.0	1017.7	30.0	4300.0				
	900	GORK	48 C	1013.6	1018.2	56.4	2400.0				
	900	GORK	48 C	1013.6	1046.5		9700.0				
	900	GORK	48 C	1013.6	1036.7		1100.0				
	2950	GORK	48 C	1013.8	1032.3		400.0				
	2950	GORK	48 C	1013.8	1017.4	25.2	1200.0				
	2950	GORK	48 C	1013.8	1021.6		1000.0				
	1415	SVTO	48 C	1014.0	1036.0	38.0	1400.0				QL=4 ST=2 TYP=8
	4995	SVTO	48 C	1014.0	1020.0	38.0	2600.0				QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1014.0	1020.0	36.0	3800.0				QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1014.0	1017.0	36.0	6200.0				QL=4 ST=2 TYP=8
	2695	SVTO	49 GB	1014.0	1017.0	38.0	1200.0				QL=4 ST=2 TYP=6
	610	SVTO	48 C	1014.0	1020.0	46.0	20000.0				QL=4 ST=2 TYP=8
	204	IZMI	46 C	1014.8	1018.5	7.3	63346.0				
	127	TORN	47 GB	1014.9	1022.5U	7.6	7700.0D	3300.0			
	410	SVTO	48 C	1015.0	1036.0	46.0	8100.0				QL=4 ST=2 TYP=8
	245	SVTO	49 GB	1016.0	1017.0	44.0	8200.0				QL=4 ST=2 TYP=6
	33	UPIC	49 GB	1016.5	1032.0	31.5					
	204	IZMI	45 C	1022.9	1033.6	31.6	616.0				
	245	SGMR	48 C	1028.0	1033.0	812.0	600.0				QL=2 ST=1 TYP=8
	4995	SGMR	48 C	1029.0E	1047.0U	27.0D	270.0				QL=2 ST=2 TYP=8
	245	SGMR	48 C	1029.0E	1033.0U	31.0D	600.0				QL=2 ST=2 TYP=8
	1415	SGMR	48 C	1029.0E	1036.0U	30.0D	1400.0				QL=2 ST=2 TYP=8
	2695	SGMR	48 C	1029.0E	1032.0U	33.0D	270.0				QL=2 ST=2 TYP=8
	8800	SGMR	48 C	1029.0E	1047.0U	33.0D	240.0				QL=2 ST=2 TYP=8
	410	SGMR	49 GB	1029.0E	1036.0U	33.0D	2900.0				QL=2 ST=2 TYP=6
	610	SGMR	49 GB	1029.0E	1036.0U	31.0D	3300.0				QL=2 ST=2 TYP=6
	9100	GORK	30 PBI	1039.0	1039.0	31.0D	100.0				
	2950	GORK	30 PBI	1039.0	1039.0	31.0D	130.0				
	9100	GORK	45 C	1045.5	1050.1		65.0				
	9100	GORK	45 C	1045.5	1047.3	6.9	230.0				
	3000	IZMI	45 C	1045.8	1047.3	72.8	286.0				
	15400	SGMR	48 C	1046.0E	1101.0U	16.0D	75.0				QL=2 ST=2 TYP=8
	2950	GORK	4 S/F	1046.5	1047.4	9.5	250.0				
	33	UPIC	29 PBI	1048.0	1204.5	229.0					
	610	SGMR	4 S/F	1104.0	1111.0	8.0	170.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1111.0	1111.0		94.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1126.0	1127.0	1.0	91.0				QL=4 ST=2 TYP=3
	204	IZMI	45 C	1144.5	1153.3	15.1	93.0				
	1415	SVTO	20 GRF	1145.0	1150.0	8.0	78.0				QL=4 ST=2 TYP=2
	245	SVTO	4 S/F	1145.0	1146.0	14.0	130.0				QL=4 ST=2 TYP=3
245	SGMR	20 GRF	1146.0	1153.0	13.0	110.0				QL=4 ST=2 TYP=2	
410	SGMR	20 GRF	1146.0	1153.0	13.0	88.0				QL=4 ST=2 TYP=2	
1415	SGMR	4 S/F	1146.0	1150.0	11.0	78.0				QL=4 ST=2 TYP=3	
410	SVTO	4 S/F	1146.0	1153.0	12.0	150.0				QL=4 ST=2 TYP=3	
610	SVTO	4 S/F	1148.0	1150.0	11.0	50.0				QL=2 ST=2 TYP=3	
610	SGMR	4 S/F	1149.0	1150.0	10.0	42.0				QL=4 ST=2 TYP=3	
204	IZMI	25 R	1202.4	1202.4	27.6D		75.0				
245	SGMR	4 S/F	1210.0	1216.0	22.0	100.0				QL=4 ST=2 TYP=3	
610	SGMR	4 S/F	1211.0	1215.0	9.0	92.0				QL=4 ST=2 TYP=3	
410	SGMR	20 GRF	1214.0	1222.0	14.0	76.0				QL=4 ST=2 TYP=2	
410	SVTO	4 S/F	1214.0	1222.0	14.0	98.0				QL=4 ST=2 TYP=3	
6700	CUBA	2 S/F	1408.0	1409.5	3.0	13.0	6.0			25L	
6700	CUBA	20 GRF	1457.0	1549.0	103.0	26.0	13.0			5R	
245	SGMR	8 S	1956.0	1956.0	1.0	160.0				QL=4 ST=2 TYP=3	
13	204	IZMI	43 NS	0600.0		360.0D		20.0			
	127	TORN	44 NS	1240.0E		80.0D		8.0		V=1	
	235	CUBA	44 NS	1300.0E		530.0D		8.0			
	280	CUBA	44 NS	1300.0E		530.0D		17.0			

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

APRIL 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	200	HIRA	8 S	0130.0	0131.0	1.0	20.0			ML
	204	IZMI	41 F	0601.4	0601.6	0.3	57.0			
	204	IZMI	42 SER	0726.8	0727.9	3.0	30.0			
	200	HIRA	8 S	0727.0	0728.0	1.0	10.0			WR
	204	IZMI	41 F	0849.8	0850.6	1.6	24.0			
	204	IZMI	41 F	0856.2	0856.7	1.2	23.0			
	8800	SGMR	8 S	2141.0	2141.0	2.0	45.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2141.0	2141.0	2.0	110.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	2141.5	2142.0	1.4	22.0	11.0		
14	127	TORN	44 NS	0630.0E		510.0D		40.0		V=1
	204	IZMI	43 NS	0937.0		143.0D		5.0		
	235	CUBA	44 NS	1300.0E		530.0D		8.0		
	280	CUBA	44 NS	1300.0E		530.0D		13.0		
	2800	PENT	1 S	0004.0	0007.0	6.0	5.0			
	4995	LEAR	8 S	0007.0	0007.0	1.0	25.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0007.0	0007.0	1.0	82.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0007.0	0007.0	1.0	62.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0007.0	0008.0	5.0	76.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0053.0	0054.0	2.0	45.0			0
	200	HIRA	7 C	0157.0	0157.0	2.0	105.0			WR
	245	LEAR	8 S	0450.0	0450.0	U	72.0			QL=2 ST=2 TYP=3
	2950	GORK	20 GRF	0500.6	0502.8	12.5	8.3			
	15400	LEAR	8 S	0501.0	0503.0	2.0	60.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0501.0	0503.0	3.0	76.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0501.0	0503.0	3.0	70.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0501.0	0503.0	3.0	57.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0501.4	0502.2	3.8	38.0			
	9100	GORK	46 C	0501.4	0503.2		50.0			
	4995	LEAR	8 S	0502.0	0503.0	1.0	24.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0717.0	0718.0	1.0	81.0			QL=4 ST=2 TYP=3
	9100	GORK	3 S	0719.5	0720.5	1.8	21.0			
	900	GORK	42 SER	0812.0	0821.3		16.0			
	900	GORK	42 SER	0812.0	0819.6		11.0			
	900	GORK	42 SER	0812.0	0818.8	13.9	8.0			
	900	GORK	42 SER	0812.0	0824.9		34.0			
	9100	GORK	21 GRF	0812.9	0832.5	30.3	24.0			
	2950	GORK	21 GRF	0813.0	0835.6	25.7	8.4			
	9100	GORK	1 S	0813.3	0813.7	0.6	10.0			
	3000	IZMI	22 GRF	0813.3	0835.7	24.3	18.0	3.0		
	2950	GORK	8 S	0813.5	0813.7	0.4	22.0			
	3000	IZMI	5 S	0813.6	0813.7	0.2	20.0	7.0		
	3000	IZMI	7 C	0820.8	0821.8	1.3	11.0	6.0		
	2950	GORK	45 C	0821.0	0821.4	1.5	6.0			
	2950	GORK	45 C	0821.0	0821.9		7.2			
	204	IZMI	22 GRF	0835.5	0853.5	55.1	11.0			
	33	UPIC	4 S/F	1154.5	1155.0	1.0				
	245	SGMR	4 S/F	1406.0	1408.0	3.0	69.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1511.0	1511.0	1.0	69.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1511.0	1511.0	1.0	29.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1511.0	1511.0	1.0	57.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1511.0	1511.0	1.0	120.0			QL=4 ST=2 TYP=3
33	UPIC	4 S/F	1512.0	1512.5	1.5					
6700	CUBA	21 GRF	1717.0	1744.0	81.0	16.0	8.0		11L	
9500	CUBA	21 GRF	1717.0	1800.0	84.0	18.0	9.0			
410	PALE	4 S/F	1727.0	1729.0	3.0	370.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1727.0	1728.0	6.0	210.0			QL=4 ST=2 TYP=3	
410	SGMR	4 S/F	1727.0	1729.0	6.0	310.0			QL=4 ST=2 TYP=3	
610	SGMR	4 S/F	1727.0	1729.0	6.0	170.0			QL=4 ST=2 TYP=3	
6700	CUBA	42 SER	1727.2	1744.7	27.2	255.0	127.0		7R	
280	CUBA	48 C	1727.3	1743.0	52.7	275.0				
235	CUBA	49 GB	1727.3	1743.3	52.7	130.0				
9500	CUBA	42 SER	1727.4	1744.8	27.1	10.0	5.0			
245	PALE	8 S	1728.0	1729.0	2.0	250.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	1728.0	1730.0	2.0	170.0			QL=4 ST=2 TYP=3	
1415	PALE	8 S	1728.0	1728.0	2.0	280.0			QL=4 ST=2 TYP=3	
2695	PALE	8 S	1728.0	1728.0	1.0	47.0			QL=4 ST=2 TYP=3	
4995	PALE	8 S	1728.0	1730.0	2.0	63.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	1728.0	1728.0	2.0	270.0			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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Apr 01

APRIL 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	2695	SGMR	8 S	1728.0	1728.0	2.0	31.0			QL=4 ST=2 TYP=3		
	4995	SGMR	4 S/F	1728.0	1729.0	5.0	56.0			QL=4 ST=2 TYP=3		
	8800	SGMR	4 S/F	1728.0	1729.0	5.0	50.0			QL=4 ST=2 TYP=3		
	15400	SGMR	4 S/F	1728.0	1729.0	5.0	39.0			QL=4 ST=2 TYP=3		
	245	PALE	48 C	1732.0	1740.0	14.0	290.0			QL=4 ST=2 TYP=8		
	2695	PALE	48 C	1734.0	1737.0	8.0	150.0			QL=4 ST=2 TYP=8		
	410	PALE	20 GRF	1734.0	1740.0	7.0	82.0			QL=4 ST=2 TYP=2		
	610	PALE	8 S	1734.0	1735.0	1.0	31.0			QL=4 ST=2 TYP=3		
	2695	SGMR	48 C	1734.0	1737.0	15.0	110.0			QL=4 ST=2 TYP=8		
	4995	SGMR	48 C	1734.0	1737.0	15.0	120.0			QL=4 ST=2 TYP=8		
	410	SGMR	4 S/F	1734.0	1737.0	15.0	73.0			QL=4 ST=2 TYP=3		
	4995	PALE	4 S/F	1735.0	1737.0	7.0	110.0			QL=4 ST=2 TYP=3		
	245	SGMR	48 C	1735.0	1740.0	14.0	250.0			QL=4 ST=2 TYP=8		
	1415	PALE	8 S	1736.0	1737.0	2.0	49.0			QL=4 ST=2 TYP=3		
	8800	SGMR	48 C	1736.0	1744.0	13.0	470.0			QL=4 ST=2 TYP=8		
	15400	SGMR	48 C	1736.0	1744.0	13.0	800.0			QL=4 ST=2 TYP=8		
	1415	SGMR	4 S/F	1736.0	1736.0	10.0	48.0			QL=4 ST=2 TYP=3		
	610	SGMR	4 S/F	1737.0	1737.0	12.0	20.0			QL=4 ST=2 TYP=3		
	2800	PENT	40 F	1737.0E	1737.0	49.0U						
	15400	PALE	49 GB	1744.0	1744.0	2.0	710.0				QL=4 ST=2 TYP=6	
	8800	PALE	8 S	1744.0	1744.0	2.0	350.0				QL=4 ST=2 TYP=3	
	4995	PALE	8 S	1751.0	1752.0	1.0	48.0				QL=4 ST=2 TYP=3	
	245	PALE	4 S/F	1751.0	1751.0	3.0	52.0				QL=4 ST=2 TYP=3	
	2695	PALE	4 S/F	1751.0	1752.0	3.0	78.0				QL=4 ST=2 TYP=3	
	4995	SGMR	4 S/F	1751.0	1752.0	4.0	52.0				QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	1751.0	1752.0	4.0	51.0				QL=4 ST=2 TYP=3	
	2695	SGMR	4 S/F	1752.0	1752.0	3.0	55.0				QL=4 ST=2 TYP=3	
	610	SGMR	8 S	1801.0	1802.0	2.0	70.0				QL=4 ST=2 TYP=3	
	4995	SGMR	4 S/F	1810.0	1811.0	3.0	48.0				QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	1810.0	1810.0	3.0	54.0				QL=4 ST=2 TYP=3	
	6700	CUBA	1 S	1810.0	1810.7	2.8	28.0	14.0			13L	
	9500	CUBA	1 S	1810.0	1810.8	3.0	19.0	9.0				
	2800	PENT	1 S	1924.0	1926.0	5.0	7.0					
	245	SGMR	8 S	1925.0	1925.0	1.0	64.0				QL=4 ST=2 TYP=3	
	245	LEAR	4 S/F	2321.0	2322.0	6.0	71.0				QL=2 ST=2 TYP=3	
	200	HIRA	7 C	2322.0	2325.0	4.0	45.0				0	
	410	LEAR	8 S	2322.0	2322.0	1.0	17.0				QL=2 ST=2 TYP=3	
	245	PALE	8 S	2322.0	2322.0	U	110.0				QL=4 ST=2 TYP=3	
	15	235	CUBA	44 NS	1300.0E		530.0D		6.0			
		280	CUBA	44 NS	1300.0E		530.0D		13.0			
		6700	CUBA			1414.3		711.0	355.0			15L
		8800	LEAR	8 S	0405.0	0406.0	1.0	55.0				QL=4 ST=2 TYP=3
		15400	LEAR	8 S	0405.0	0406.0	1.0	110.0				QL=4 ST=2 TYP=3
		200	HIRA	8 S	0431.0	0431.0	1.0	35.0				0
		2950	GORK	2 S/F	0544.7	0545.7	2.9	7.4				
		9100	GORK	20 GRF	0554.0	0615.1	27.2	17.0				
		3000	IZMI	20 GRF	0554.1	0555.0	1.4	14.0	8.0			
2950		GORK	21 GRF	0555.0	0555.7	25.2	20.0					
204		IZMI	45 C	0627.0	0627.2	0.4	77.0					
9100		GORK	21 GRF	0751.8	0831.8	177.9	30.0					
9100		GORK	46 C	0753.0	0754.0	4.7	21.0					
9100		GORK	46 C	0753.0	0756.2		14.0					
33		UPIC	46 C	0758.0	0800.0	3.5						
2950		GORK	21 GRF	0758.3	0823.3	103.2	13.0					
2950		GORK	21 GRF	0758.3	0834.6		9.8					
200		HIRA	8 S	0759.0	0800.0	1.0	10.0				0	
900		GORK	42 SER	0759.0	0759.1	3.3	6.0					
900		GORK	42 SER	0759.0	0802.1		5.0					
200		HIRA	8 S	0816.0	0817.0	1.0	75.0				0	
245		LEAR	8 S	0816.0	0816.0	U	65.0				QL=2 ST=2 TYP=3	
3000		IZMI	45 C	0816.1	0823.5	30.3	23.0	10.0				
204		IZMI	45 C	0816.4	0816.5	0.5	139.0					
9100		GORK	4 S/F	0819.5	0820.6	2.0	13.0					
204		IZMI	41 F	0921.7	0922.3	0.9	30.0					
3000		IZMI	20 GRF	0923.8	0930.9	30.5	12.0	3.0				
900	GORK	2 S/F	0934.0	0934.2	0.4	6.0						
900	GORK	7 C	0939.2	0940.5	3.6	5.0						
33	UPIC	3 S	1004.5	1005.5	1.5							

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

APRIL 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	204	IZMI	42 SER	1004.6	1004.8	0.5	121.0			
	6700	CUBA	21 GRF	1320.0	1414.0	198.0	87.0	43.0		22L
	9500	CUBA	20 GRF	1321.0	1505.0	195.0	10.0	5.0		
	6700	CUBA	47 GB	1332.0	1346.5	102.0	2466.0	1233.0		12L
	2695	SGMR	48 C	1333.0	1417.0	108.0	48000.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1333.0	1346.0	108.0	2400.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1334.0	1349.0	107.0	1500.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1334.0	1349.0	107.0	5100.0			QL=4 ST=2 TYP=8
	9500	CUBA	47 GB	1334.3	1414.0		541.0	270.0		
	9500	CUBA	47 GB	1334.3	1349.9	88.9	1753.0	876.0		
	33	UPIC	32 ABS	1338.0	1348.0	128.0				
	1415	SGMR	48 C	1345.0	1418.0	96.0	54000.0			QL=4 ST=2 TYP=8
	235	CUBA	49 GB	1345.8	1346.0U	91.3D	2187.0			
	280	CUBA	49 GB	1345.8	1346.0U	91.3	3012.0			
	245	SGMR	49 GB	1346.0	1347.0	38.0	61000.0			QL=4 ST=2 TYP=6
	410	SGMR	49 GB	1346.0	1347.0	88.0	1500.0			QL=4 ST=2 TYP=6
	610	SGMR	48 C	1346.0	1447.0	95.0	2700.0			QL=4 ST=2 TYP=8
	127	TORN	49 GB	1346.5	1349.4	20.0	26000.0D	6100.0D		
	33	UPIC	49 GB	1350.0	1354.5	55.0				
	1415	SGMR	8 S	1603.0	1603.0		86.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1632.0	1632.0		150.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	1656.0	1700.0	15.0	90.0			QL=4 ST=2 TYP=3
	9500	CUBA	20 GRF	1658.0	1701.0	38.0	9.0	4.0		
	1415	PALE	4 S/F	1659.0	1701.0	13.0	89.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	1700.0	1701.0	6.0	43.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1700.0	1701.0	9.0	73.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1700.0	1700.0	9.0	65.0			QL=4 ST=2 TYP=3
	6700	CUBA	20 GRF	1701.0	1705.0	22.0	25.0	12.0		32L
	245	PALE	8 S	1702.0	1702.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1810.0	1811.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1810.0	1811.0	1.0	76.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	2159.0	2203.0	7.0	4.0			
200	HIRA	8 S	2206.0	2206.0	1.0	15.0			WR	
8800	PALE	8 S	2343.0	2344.0	1.0	300.0			QL=4 ST=2 TYP=3	
16	235	CUBA	44 NS	1300.0E		530.0D		6.0		
	280	CUBA	44 NS	1300.0E		530.0D		14.0		
	2950	GORK	21 GRF	0601.8E	0624.6	25.2D	4.7			
	9100	GORK	3 S	0619.4	0619.7	0.6	14.0			
	2950	GORK	1 S	0619.4	0619.8	0.6	4.7			
	3000	IZMI	20 GRF	0619.5	0619.8	0.4	9.0	3.0		
	3000	IZMI	20 GRF	0620.8	0622.2	3.8	8.0	4.0		
	3000	IZMI	7 C	0658.0	0701.1	3.5	11.0	5.0		
	9100	GORK	45 C	0659.1	0700.0	2.7	18.0			
	2950	GORK	1 S	0659.8	0700.1	2.6	3.5U			
	900	GORK	4 S/F	0811.2	0811.3	2.2	22.0			
	9100	GORK	8 S	0811.7	0811.8	0.2	26.0			
	3000	IZMI	22 GRF	1111.1	1113.5	20.1	8.0	4.0		
	2800	PENT	1 S	2101.0	2104.0	6.0	8.0			
	245	SGMR	8 S	2104.0	2104.0	2.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2104.0	2104.0	2.0	110.0			QL=4 ST=2 TYP=3
500	HIRA	8 S	2105.0	2105.0	1.0	65.0			0	
200	HIRA	8 S	2105.0	2105.0	1.0	55.0			0	
200	HIRA	8 S	2223.0	2223.0	1.0	30.0			WR	
17	204	IZMI	43 NS	0600.0		360.0D		25.0		
	245	SGMR	43 NS	1226.0	1226.0	102.0	130.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	1230.0E		150.0D		11.0		V=1
	235	CUBA	44 NS	1300.0E		530.0D		6.0		
	280	CUBA	44 NS	1300.0E		530.0D		14.0		
	2950	GORK	1 S	0455.5	0456.5	3.5	12.0			
	410	SVTO	8 S	0615.0	0616.0	1.0	77.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0616.0	0616.0	1.0	30.0			0
	200	HIRA	8 S	0735.0	0736.0	1.0	85.0			WL
	245	LEAR	8 S	0735.0	0736.0	1.0	56.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0735.0	0736.0	1.0	60.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	0735.0	0735.0	1.0	28.0			QL=4 ST=3 TYP=3
204	IZMI	41 F	0735.7	0735.9	0.5	157.0				
245	SVTO	8 S	0816.0	0817.0	1.0	77.0			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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Apr 01

A P R I L 2 0 0 1

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	204	IZMI	42 SER	1105.8	1106.4	1.1	148.0			
	245	SGMR	8 S	1106.0	1106.0	1.0	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1106.0	1106.0	U	88.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1107.1	1107.4	0.4	66.0			
	245	SGMR	8 S	1139.0	1139.0	1.0	250.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	1139.6	1139.9	0.7	346.0			
	610	SGMR	8 S	1149.0	1149.0	1.0	88.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	2020.2	2021.8	1.8	27.0	13.0		3L
	2800	PENT	29 PBI	2116.0	2125.0	76.0	11.0			
	9500	CUBA	21 GRF	2120.0	2149.0	57.0D	19.0	9.0		SUNSET
	9500	CUBA	1 S	2120.5	2121.8	2.5	11.0	5.0		
18	204	IZMI	44 NS	0600.0E		360.0D		10.0		
	4995	LEAR	4 S/F	0213.0	0214.0	8.0	470.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0213.0	0214.0	6.0	160.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0213.0	0214.0	6.0	79.0			QL=4 ST=2 TYP=3
	2695	PALE	49 GB	0213.0	0215.0	4.0	630.0			QL=4 ST=2 TYP=6
	1415	PALE	4 S/F	0213.0	0215.0	5.0	420.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0213.0	0214.0	3.0	410.0			QL=4 ST=2 TYP=3
	2695	LEAR	49 GB	0213.0	0214.0	11.0	570.0			QL=4 ST=2 TYP=6
	1415	LEAR	4 S/F	0213.0	0215.0	11.0	340.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0214.0	0214.0	8.0	1700.0			QL=2 ST=2 TYP=6
	245	PALE	49 GB	0214.0	0214.0	1.0	1800.0			QL=4 ST=2 TYP=6
	410	PALE	49 GB	0214.0	0214.0	7.0	4500.0			QL=4 ST=2 TYP=6
	8800	PALE	8 S	0214.0	0215.0	1.0	39.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0214.0	0214.0	10.0	1500.0			QL=2 ST=2 TYP=6
	610	LEAR	4 S/F	0215.0	0216.0	6.0	62.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0215.0	0216.0	2.0	75.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0232.0	0232.0	U	330.0			QL=4 ST=2 TYP=3
	2800	HIRA	3 S	2112.0	2118.0	14.0	495.0			0
	500	HIRA	8 S	2114.0	2115.0	1.0	170.0			0
	200	HIRA	47 GB	2114.0	2115.0	16.0	550.0			WL
500	HIRA	7 C	2115.0	2118.0	14.0	90.0			0	
19	204	IZMI	44 NS	0600.0E		360.0D		25.0		
	127	TORN	44 NS	1000.0E		300.0D		20.0		V=1,DISTURBED
	235	CUBA	44 NS	1300.0E		530.0D		9.0		
	280	CUBA	44 NS	1300.0E		530.0D		16.0		
	200	HIRA	8 S	0440.0	0442.0	2.0	25.0			0
	2950	GORK	1 S	0614.2	0614.7	1.0	9.0			
	204	IZMI	42 SER	0704.9	0705.4	0.8	56.0			
	204	IZMI	41 F	0709.0	0709.1	0.3	61.0			
	204	IZMI	41 F	0833.5	0833.7	0.4	54.0			
	3000	IZMI	45 C	1124.8	1130.2	31.1	312.0	36.0		
	2695	SGMR	4 S/F	1127.0	1130.0	28.0	270.0			QL=4 ST=2 TYP=3
	4995	SGMR	49 GB	1128.0	1130.0	27.0	540.0			QL=4 ST=2 TYP=6
	1415	SGMR	4 S/F	1129.0	1130.0	24.0	81.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1129.0	1130.0	26.0	340.0			QL=4 ST=2 TYP=3
15400	SGMR	4 S/F	1129.0	1130.0	26.0	88.0			QL=4 ST=2 TYP=3	
20	204	IZMI	44 NS	0600.0E		360.0D		10.0		
	127	TORN	44 NS	0630.0E		510.0D		14.0		V=1
	235	CUBA	44 NS	1300.0E		530.0D		7.0		
	280	CUBA	44 NS	1300.0E		530.0D		17.0		
	500	HIRA	8 S	0057.0	0057.0	1.0	10.0			0
	200	HIRA	8 S	0057.0	0057.0	1.0	15.0			0
	245	LEAR	8 S	0231.0	0232.0	2.0	44.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0232.0	0232.0	U	50.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0253.0	0255.0	2.0	51.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0345.0	0345.0	U	140.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0345.0	0345.0	U	170.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0515.0	0516.0	3.0	47.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	0515.3	0516.2	3.7	18.0			
	9100	GORK	3 S	0515.4	0515.9	3.1	10.0			
	204	IZMI	25 R	0652.3		35.0		25.0		
	204	IZMI	41 F	0700.4	0700.6	0.4	35.0			
200	HIRA	8 S	0705.0	0706.0	1.0	15.0			WL	
204	IZMI	42 SER	0705.4	0706.8	4.3	36.0				
204	IZMI	7 C	0752.7	0752.8	0.2	10.0				

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APRIL 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		
20	2950	GORK	2 S/F	0928.7	0930.0	2.8	7.5			
	3000	IZMI	7 C	0929.0	0929.9	1.8	11.0	4.0		
	204	IZMI	41 F	1007.9	1007.9	0.2	72.0			
	245	SVTO	8 S	1101.0	1101.0	U	96.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1101.4	1101.5	0.8	53.0			
	6700	CUBA	22 GRF	1320.0	1320.0	131.0	22.0	11.0		10L
	2800	PENT	20 GRF	1410.0	1415.0	30.0	6.0			
	2800	PENT	29 PBI	1603.0	1611.0	29.0U	7.0			
	4995	SGMR	4 S/F	1952.0	1954.0	12.0	180.0			QL=4 ST=2 TYP=3
	6700	CUBA	4 S/F	1952.2	1954.0	9.4	125.0	62.0		13L
	9500	CUBA	2 S/F	1952.8	1954.0	4.2	33.0	16.0		
	2695	SGMR	4 S/F	1953.0	1954.0	11.0	70.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1953.0	1954.0	11.0	85.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1953.0	2004.0	11.0	46.0			QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	1953.0	2008.0	76.0	30.0	15.0		
	6700	CUBA	30 PBI	2001.6	2001.6	100.4	43.0	21.0		10L
	2695	PALE	8 S	2005.0	2006.0	1.0	3.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2005.0	2005.0	U	16.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2005.0	2009.0	5.0	5.0			QL=4 ST=2 TYP=3
	15400	SGMR	20 GRF	2007.0	2011.0	18.0	52.0			QL=4 ST=2 TYP=2
	2800	PENT	29 PBI	2127.0	2132.0	65.0U	91.0			
	2800	HIRA	4 S/F	2129.0	2132.0	5.0	80.0			0
	500	HIRA	47 GB	2129.0	2129.0	6.0	830.0			WL
	410	PALE	8 S	2129.0	2129.0	1.0	400.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2129.0	2129.0	2.0	120.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2129.0	2129.0	5.0	330.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	2129.0	2129.0	5.0	120.0			QL=4 ST=2 TYP=3
	6700	CUBA	4 S/F	2129.3	2132.2	4.2	157.0	78.0		16L
	9500	CUBA	2 S/F	2129.8	2132.2	4.2	84.0	42.0		
	200	HIRA	7 C	2130.0	2132.0	7.0	140.0			WL
	1415	SGMR	4 S/F	2130.0	2132.0	4.0	54.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2130.0	2132.0	4.0	69.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2131.0	2131.0	2.0	180.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2131.0	2132.0	1.0	56.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2131.0	2132.0	1.0	79.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2131.0	2132.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	2131.0	2131.0	3.0	140.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2131.0	2132.0	3.0	180.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2131.0	2132.0	3.0	130.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2132.0	2132.0	U	110.0			QL=4 ST=2 TYP=3
15400	SGMR	8 S	2132.0	2132.0	2.0	30.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2146.0	2146.0	2.0	63.0			QL=4 ST=2 TYP=3	
21	204	IZMI	44 NS	0600.0E		360.0D		10.0		
	127	TORN	44 NS	0630.0E		510.0D		10.0		V=1
	245	SVTO	43 NS	1007.0	1142.0	106.0	170.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		7.0		
	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	200	HIRA	8 S	0537.0	0537.0	1.0	25.0			WL
	245	LEAR	49 GB	0537.0	0537.0	U	2200.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	0537.0	0537.0	U	2700.0			QL=4 ST=2 TYP=6
	2950	GORK	1 S	0537.2	0537.4	1.0	3.1			
	204	IZMI	41 F	0716.6	0716.8	0.8	16.0			
	204	IZMI	7 C	0748.5	0748.6	0.2	44.0			
	200	HIRA	8 S	0903.0	0903.0	1.0	40.0			WL
	204	IZMI	42 SER	0903.2	0903.4	2.2	61.0			
	127	TORN	4 S/F	0903.3	0903.8	2.0	590.0	190.0		
	204	IZMI	42 SER	0933.3	0933.9	2.7	58.0			
	900	GORK	41 F	0935.0	0936.2	7.0	24.0			
	900	GORK	41 F	0935.0	0941.6		40.0			
	2950	GORK	42 SER	0939.0	0950.9		26.0			
	2950	GORK	42 SER	0939.0	0940.9	12.3	20.0			
	204	IZMI	42 SER	0942.3	0943.6	1.7	106.0			
	235	CUBA	7 C	1930.8	1933.5	3.5	40.0			
	280	CUBA	7 C	1930.8	1933.5	3.5	181.0			
	410	PALE	49 GB	1931.0	1931.0	1.0	690.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	1931.0	1931.0	1.0	450.0			QL=4 ST=2 TYP=3
610	PALE	8 S	1931.0	1932.0	1.0	100.0			QL=4 ST=2 TYP=3	
410	SGMR	49 GB	1931.0	1931.0	2.0	520.0			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 (10 -22 W/m 2 Hz)	Mean		
21	245	SGMR	8 S	1931.0	1931.0	2.0	330.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1931.0	1931.0	2.0	87.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1931.0	1931.0	2.0	42.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1933.0	1934.0	4.0	820.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1934.0	1934.0	2.0	700.0			QL=4 ST=2 TYP=6
	610	PALE	4 S/F	2048.0	2053.0	12.0	70.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	2050.0	2053.0	10.0	54.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2053.0	2053.0		64.0			QL=4 ST=2 TYP=3
	500	HIRA	42 SER	2349.0	2354.0	5.0	15.0			WL
	200	HIRA	42 SER	2350.0	2354.0	4.0	30.0			0
22	127	TORN	43 NS	0730.0		450.0		14.0		V=1
	235	CUBA	44 NS	1300.0E		530.0D		10.0		
	280	CUBA	44 NS	1300.0E		530.0D		13.0		
	200	HIRA	8 S	0042.0	0042.0	1.0	20.0			0
	500	HIRA	42 SER	0121.0	0147.0	28.0	55.0			WL
	200	HIRA	42 SER	0134.0	0148.0	16.0	390.0			WR
	2800	HIRA	8 S	0146.0	0147.0	1.0	30.0			WL
	245	LEAR	8 S	0146.0	0148.0	2.0	290.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0146.0	0146.0	1.0	130.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0348.0	0348.0		110.0			QL=2 ST=2 TYP=3
	500	HIRA	8 S	0405.0	0405.0	1.0	15.0			0
	200	HIRA	8 S	0407.0	0408.0	2.0	20.0			0
	204	IZMI	7 C	0555.4	0555.4	0.1	17.0			
	204	IZMI	42 SER	0619.4	0619.6	0.7	31.0			
	200	HIRA	8 S	0620.0	0620.0	1.0	10.0			0
	900	GORK	41 F	0805.6	0810.0	9.0	12.0			
	900	GORK	41 F	0805.6	0814.1		15.0			
	900	GORK	41 F	0805.6	0813.7		15.0			
	3000	IZMI	20 GRF	0811.5	0812.7	4.0	11.0	6.0		
	2950	GORK	1 S	0811.8E	0812.7	2.6D	3.8			
	204	IZMI	7 C	0932.0	0932.1	0.2	16.0			
	2950	GORK	40 F	1022.2	1022.6	1.0	25.0			
	900	GORK	46 C	1022.3	1022.7	0.7	25.0			
	3000	IZMI	7 C	1022.3	1022.7	0.6	23.0	7.0		
	127	TORN	4 S/F	1047.4	1048.4	1.3	100.0	30.0		
	127	TORN	8 S	1057.7	1057.9	0.9	90.0	10.0		
	6700	CUBA	22 GRF	1248.0	1350.0	235.0	13.0	6.0		
	9500	CUBA	2 S/F	1506.0	1511.2	13.0	12.0	6.0		
	245	PALE	8 S	1633.0	1634.0	1.0	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1633.0	1633.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1633.0	1633.0	1.0	96.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	1702.0	1704.0	3.0	430.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1702.0	1703.0	3.0	290.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1702.0	1703.0	3.0	430.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1703.0	1704.0	1.0	140.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1703.0	1704.0	1.0	62.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1703.0	1704.0	2.0	61.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1703.0	1703.0	4.0	150.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1703.0	1704.0	4.0	41.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1703.0	1703.0	4.0	76.0			QL=4 ST=2 TYP=3
410	SVTO	8 S	1703.0	1703.0	1.0	210.0			QL=4 ST=2 TYP=3	
4995	SVTO	8 S	1703.0	1703.0	1.0	47.0			QL=2 ST=2 TYP=3	
9500	CUBA	1 S	1703.0	1703.8	3.0	13.0	6.0			
1415	PALE	8 S	1704.0	1704.0		23.0			QL=4 ST=2 TYP=3	
1415	SVTO	8 S	1704.0	1704.0		28.0			QL=4 ST=2 TYP=3	
245	PALE	4 S/F	1821.0	1822.0	6.0	110.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1821.0	1822.0	7.0	68.0			QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	1908.0	1911.0	21.0	19.0				
245	SGMR	8 S	1910.0	1911.0	1.0	460.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1910.0	1911.0	1.0	250.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1910.0	1911.0	1.0	52.0			QL=4 ST=2 TYP=3	
6700	CUBA	1 S	1910.8	1911.1	2.2	11.0	5.0			
245	PALE	49 GB	1911.0	1911.0		590.0			QL=4 ST=2 TYP=6	
410	PALE	8 S	1911.0	1911.0		330.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	1911.0	1911.0		54.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2023.0	2023.0		53.0			QL=4 ST=2 TYP=3	
9500	CUBA	1 S	2024.0	2025.5	4.0	15.0	7.0			
6700	CUBA	3 S	2024.0	2025.6	4.4	52.0	26.0			

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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		
22	2695	PALE	8 S	2025.0	2026.0	1.0	53.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2025.0	2025.0	1.0	51.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	2025.0	2025.0	1.0	64.0			QL=4 ST=2 TYP=3
	2800	PENT	40 F	2032.0	2040.0	36.0	232.0			
	6700	CUBA	46 C	2038.1	2042.0	6.7	366.0	183.0		11L
	9500	CUBA	47 GB	2038.2	2042.0	8.8	705.0	352.0		
	2800	HIRA	3 S	2039.0	2041.0		170.0			0
	500	HIRA	7 C	2039.0	2041.0	7.0	285.0			WL
	200	HIRA	47 GB	2039.0	2045.0	8.0	1825.0			WL
	8800	PALE	49 GB	2039.0	2042.0	6.0	720.0			QL=4 ST=2 TYP=6
	610	PALE	4 S/F	2039.0	2040.0	4.0	430.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2039.0	2040.0	6.0	270.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2039.0	2042.0	6.0	480.0			QL=4 ST=2 TYP=3
	4995	SGMR	49 GB	2039.0	2042.0	8.0	520.0			QL=4 ST=2 TYP=6
	8800	SGMR	49 GB	2039.0	2042.0	8.0	680.0			QL=4 ST=2 TYP=6
	610	SGMR	4 S/F	2039.0	2040.0	6.0	410.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	2039.0	2040.0	8.0	160.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2039.0	2040.0	8.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2040.0	2042.0	6.0	5700.0			QL=4 ST=2 TYP=6
	410	PALE	4 S/F	2040.0	2040.0	4.0	480.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2040.0	2040.0	3.0	160.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2040.0	2042.0	5.0	390.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	2040.0	2042.0	7.0	3700.0			QL=4 ST=2 TYP=6
	410	SGMR	4 S/F	2040.0	2040.0	7.0	350.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	2040.0	2042.0	7.0	410.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	2119.0	2122.0	5.0	5.0			
	2800	PENT	29 PBI	2141.0	2147.0	50.0U	21.0			
	6700	CUBA	2 S/F	2145.5	2147.5	4.8	29.0	14.0		46L
	9500	CUBA	1 S	2146.0	2147.2	5.0	25.0	12.0		
	500	HIRA	7 C	2155.0	2158.0	5.0	20.0			WL
200	HIRA	8 S	2157.0	2159.0	2.0	75.0			0	
245	SGMR	8 S	2158.0	2158.0	U	82.0			QL=4 ST=2 TYP=3	
23	245	LEAR	43 NS	0520.0	0731.0	269.0	130.0			QL=2 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0D		115.0		
	127	TORN	43 NS	0700.0		480.0		270.0		V=1
	245	SGMR	43 NS	1125.0	1221.0	687.0	150.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1400.0E		470.0D		27.0		
	280	CUBA	44 NS	1400.0E		470.0D		41.0		
	245	PALE	43 NS	1730.0	1740.0	390.0	79.0			QL=4 ST=1 TYP=1
	2800	HIRA	3 S	0121.0	0123.0	8.0	80.0			0
	2695	LEAR	4 S/F	0122.0	0123.0	5.0	53.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0122.0	0123.0	5.0	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0123.0	0123.0	4.0	48.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0124.0	0125.0	3.0	460.0			MR
	245	LEAR	4 S/F	0124.0	0125.0	3.0	420.0			QL=2 ST=2 TYP=3
	15400	LEAR	4 S/F	0124.0	0124.0	3.0	31.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0125.0	0125.0	2.0	200.0			0
	410	LEAR	8 S	0125.0	0125.0	1.0	290.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0125.0	0125.0	1.0	70.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0125.0	0125.0	1.0	12.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0438.0	0439.0	2.0	250.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0438.0	0439.0	2.0	59.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0438.0	0439.0	3.0	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0438.0	0439.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0438.0	0439.0	6.0	250.0			QL=2 ST=2 TYP=3
	4995	SVTO	4 S/F	0438.0	0439.0	3.0	91.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0439.0	0439.0	2.0	53.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0439.0	0439.0	U	30.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0439.0	0439.0	1.0	43.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0447.0	0447.0	1.0	66.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0447.0	0447.0	U	22.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0451.0	0451.0	1.0	55.0			QL=4 ST=2 TYP=3
9100	GORK	4 S/F	0532.3	0532.8	0.7	19.0				
2950	GORK	21 GRF	0615.0	0649.7	56.0	11.0				
2950	GORK	3 S	0647.6	0648.7	2.8	19.0				
3000	IZMI	20 GRF	0647.7	0648.6	2.4	26.0	13.0			
410	SVTO	8 S	0653.0	0653.0	U	75.0			QL=4 ST=2 TYP=3	
9100	GORK	21 GRF	1007.5	1018.7	40.0	45.0				

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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		
23	410	SVTO	4 S/F	1008.0	1009.0	3.0	110.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1008.0	1009.0	3.0	38.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1008.0	1009.0	3.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1008.0	1009.0	3.0	66.0			QL=4 ST=2 TYP=3
	2950	GORK	46 C	1008.0	1015.3		110.0			
	2950	GORK	46 C	1008.0	1009.5	22.0	63.0			
	2950	GORK	46 C	1008.0	1018.6		31.0			
	3000	IZMI	45 C	1008.9	1009.5	2.0	54.0	20.0		
	610	SVTO	8 S	1009.0	1009.0	1.0	200.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1009.0	1009.0	2.0	43.0			QL=4 ST=2 TYP=3
	900	GORK	42 SER	1009.0	1015.5		145.0			
	900	GORK	42 SER	1009.0	1009.9	9.0	130.0			
	9100	GORK	8 S	1009.7	1009.8	0.3	34.0			
	3000	IZMI	45 C	1011.5	1015.2	12.3	107.0	21.0		
	410	SVTO	4 S/F	1013.0	1014.0	3.0	130.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1013.0	1016.0	8.0	300.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1014.0	1015.0	2.0	74.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1014.0	1015.0	2.0	66.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1014.0	1014.0	4.0	350.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1014.0	1016.0	7.0	230.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1014.0	1016.0	6.0	110.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	1014.3	1016.1	3.3	163.0			
	9100	GORK	46 C	1014.3	1015.6		110.0			
	9100	GORK	46 C	1014.3	1014.8	3.3	110.0			
	2950	GORK	1 S	1054.0	1054.2	1.0	8.2			
	245	SGMR	48 C	1158.0	1158.0	1.0	490.0			QL=4 ST=3 TYP=8
	410	SGMR	8 S	1158.0	1158.0	1.0	290.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1158.0	1158.0		490.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1158.0	1158.0		460.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	1158.4	1158.6	0.5	678.0			
	410	SGMR	8 S	1220.0	1221.0	2.0	85.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1220.0	1221.0	4.0	370.0			QL=2 ST=2 TYP=3
	410	SVTO	4 S/F	1220.0	1221.0	4.0	100.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1221.0	1221.0	1.0	400.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1221.0	1222.0	3.0	190.0			QL=2 ST=2 TYP=3
	33	UPIC	46 C	1221.0	1221.5	2.0				
	9500	CUBA	1 S	1253.0	1253.1	0.8	20.0	10.0		
	410	SGMR	8 S	1307.0	1307.0	2.0	76.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1307.0	1307.0	1.0	87.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1334.0	1335.0	1.0	170.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1335.0	1335.0		54.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1335.0	1335.0		220.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1335.0	1335.0		100.0			QL=2 ST=2 TYP=3
	2800	PENT	41 F	1513.0	1529.0	22.0	27.0			
	9500	CUBA	2 S/F	1528.4	1529.5	2.6	17.0	8.0		
6700	CUBA	1 S	1528.5	1529.6	3.3	25.0	12.0		42L	
2800	PENT	24 R	1734.0	1741.0	37.0	4.0				
6700	CUBA	21 GRF	1946.0	2129.0	110.0D	53.0	26.0		4L SUNSET	
2695	PALE	4 S/F	2020.0	2022.0	8.0	79.0			QL=4 ST=3 TYP=3	
4995	PALE	4 S/F	2020.0	2022.0	8.0	110.0			QL=4 ST=3 TYP=3	
8800	PALE	4 S/F	2020.0	2022.0	8.0	140.0			QL=4 ST=3 TYP=3	
15400	PALE	4 S/F	2020.0	2021.0	8.0	50.0			QL=4 ST=3 TYP=3	
9500	CUBA	21 GRF	2020.0	2029.0	47.0	34.0	17.0			
6700	CUBA	2 S/F	2020.0	2022.3	6.2	93.0	46.0		11L	
9500	CUBA	2 S/F	2021.0	2022.0	5.0	60.0	30.0			
2695	SGMR	4 S/F	2021.0	2022.0	45.0	68.0			QL=4 ST=3 TYP=3	
4995	SGMR	4 S/F	2021.0	2022.0	59.0	110.0			QL=4 ST=3 TYP=3	
8800	SGMR	4 S/F	2021.0	2022.0	59.0	82.0			QL=4 ST=3 TYP=3	
15400	SGMR	4 S/F	2021.0	2041.0	59.0	50.0			QL=4 ST=3 TYP=3	
410	PALE	8 S	2029.0	2030.0	1.0	70.0			QL=4 ST=3 TYP=3	
2800	PENT	29 PBI	2329.0	2337.0	43.0	17.0				
4995	PALE	8 S	2337.0	2337.0	1.0	52.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	2337.0	2337.0		94.0			QL=4 ST=2 TYP=3	
24	245	LEAR	43 NS	0105.0	0445.0	523.0	320.0			QL=2 ST=2 TYP=1
	245	SVTO	43 NS	0418.0	0451.0U	1182.0	220.0			QL=2 ST=1 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		140.0		
	127	TORN	44 NS	0630.0E		510.0D		530.0		V=1
	33	UPIC	43 NS	0832.0	0954.5U	259.0				

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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		
24	245	SGMR	43 NS	1022.0	1638.0U	690.0	190.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1700.0E		290.0D		53.0		
	280	CUBA	44 NS	1700.0E		290.0D		54.0		
	245	PALE	43 NS	1744.0	0306.0	653.0	300.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2256.0	2311.0	651.0	100.0			QL=2 ST=2 TYP=1
	2800	PENT	29 PBI	0015.0	0019.0	59.0	67.0			
	4995	LEAR	8 S	0018.0	0019.0	2.0	89.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0018.0	0019.0	2.0	98.0			QL=4 ST=2 TYP=3
	2800	HIRA	3 S	0019.0	0019.0	3.0	55.0			0
	2695	LEAR	8 S	0019.0	0019.0		U	57.0		QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0019.0	0019.0		U	53.0		QL=4 ST=2 TYP=3
	2695	PALE	8 S	0019.0	0019.0	1.0	59.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0019.0	0019.0	1.0	85.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0218.0	0218.0	1.0	90.0			0
	610	SVTO	48 C	0528.0	0537.0	15.0	170.0			QL=2 ST=2 TYP=8
	900	GORK	46 C	0534.7	0538.0		145.0			
	900	GORK	46 C	0534.7	0536.6	11.5	31.0			
	900	GORK	46 C	0534.7	0540.9		45.0			
	610	LEAR	48 C	0535.0	0537.0	3.0	120.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0535.0	0540.0	8.0	250.0			QL=4 ST=2 TYP=8
	410	SVTO	4 S/F	0535.0	0537.0	5.0	280.0			QL=4 ST=2 TYP=3
	2800	HIRA	4 S/F	0535.0	0541.0	13.0	90.0			0
	500	HIRA	7 C	0535.0	0536.0	10.0	300.0			0
	4995	SVTO	48 C	0535.0	0541.0	10.0	230.0			QL=4 ST=2 TYP=8
	2950	GORK	46 C	0535.0	0537.1	14.1	40.0			
	2950	GORK	46 C	0535.0	0538.4		84.0			
	2950	GORK	46 C	0535.0	0541.6		100.0			
	2950	GORK	46 C	0535.0	0540.8		110.0			
	9100	GORK	46 C	0535.5	0540.9	21.5	250.0			
	2695	LEAR	48 C	0536.0	0540.0	7.0	100.0			QL=4 ST=2 TYP=8
	245	LEAR	49 GB	0536.0	0536.0		U	610.0		QL=2 ST=3 TYP=6
	8800	LEAR	4 S/F	0536.0	0540.0	7.0	270.0			QL=4 ST=2 TYP=3
	2695	SVTO	48 C	0536.0	0540.0	7.0	96.0			QL=4 ST=2 TYP=8
	245	SVTO	49 GB	0536.0	0536.0		U	800.0		QL=2 ST=2 TYP=6
	1415	SVTO	8 S	0536.0	0537.0	2.0	34.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0536.0	0540.0	9.0	300.0			QL=4 ST=2 TYP=3
	200	HIRA	47 GB	0536.0	0540.0	10.0	1220.0			SR
	410	LEAR	8 S	0537.0	0537.0		U	210.0		QL=2 ST=2 TYP=3
	15400	SVTO	4 S/F	0538.0	0540.0	8.0	110.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0539.0	0540.0	4.0	110.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0540.0	0540.0	1.0	38.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0649.9	0702.3		11.0			
	900	GORK	41 F	0649.9	0701.7		11.0			
	900	GORK	41 F	0649.9	0658.8		65.0			
	900	GORK	41 F	0649.9	0652.9	16.0	17.0			
	4995	LEAR	8 S	0656.0	0657.0	2.0	140.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0656.0	0657.0	2.0	62.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0656.0	0658.0	3.0	140.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0656.0	0657.0	2.0	74.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0656.0	0657.0	3.0	120.0			QL=4 ST=2 TYP=3
4995	SVTO	4 S/F	0656.0	0657.0	6.0	140.0			QL=4 ST=2 TYP=3	
2800	HIRA	3 S	0656.0	0658.0	10.0	110.0			0	
2950	GORK	3 S	0656.0	0657.8	3.0	135.0				
3000	IZMI	45 C	0656.0	0657.8	4.1	143.0	45.0			
9100	GORK	4 S/F	0656.1	0657.2	2.3	65.0				
15400	LEAR	8 S	0657.0	0657.0		U	27.0		QL=4 ST=2 TYP=3	
1415	SVTO	8 S	0657.0	0658.0	1.0	27.0			QL=4 ST=2 TYP=3	
15400	SVTO	8 S	0657.0	0657.0		U	32.0		QL=4 ST=2 TYP=3	
9100	GORK	29 PBI	0658.4	0658.4	10.6	18.0				
2950	GORK	29 PBI	0659.0	0659.0	8.0	26.0				
204	IZMI	42 SER	0816.5	0817.2	0.8	258.0				
8800	SVTO	8 S	1241.0	1241.0	2.0	53.0			QL=4 ST=2 TYP=3	
15400	SVTO	8 S	1241.0	1241.0	1.0	49.0			QL=4 ST=2 TYP=3	
2695	SGMR	4 S/F	1243.0	1246.0	6.0	36.0			QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	1244.0	1246.0	5.0	58.0			QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	1244.0	1245.0	3.0	36.0			QL=4 ST=2 TYP=3	
4995	SVTO	4 S/F	1244.0	1246.0	3.0	62.0			QL=4 ST=2 TYP=3	
2695	SVTO	8 S	1246.0	1246.0	1.0	34.0			QL=4 ST=2 TYP=3	
127	TORN	27 RF	1247.0U		133.0D		1800.0			

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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			
24	9500	CUBA	20 GRF	1249.0E	1249.0	109.0D	61.0	30.0			
	6700	CUBA	20 GRF	1257.0E	1257.0	36.0D	18.0	9.0		18R	
	2800	PENT	29 PBI	1759.0	1810.0	93.0U	20.0				
	6700	CUBA	21 GRF	1807.0	1812.0	217.0D	23.0	11.0		6R SUNSET	
	9500	CUBA	1 S	1809.0	1810.9	5.0	70.0	35.0			
	6700	CUBA	1 S	1809.5	1810.8	1.5	66.0	33.0		8R	
	4995	SGMR	4 S/F	1810.0	1810.0	3.0	58.0			QL=4 ST=2 TYP=3	
	8800	SGMR	4 S/F	1810.0	1810.0	3.0	66.0			QL=4 ST=2 TYP=3	
	15400	SGMR	4 S/F	1810.0	1810.0	3.0	52.0			QL=4 ST=2 TYP=3	
	2800	PENT	1 S	1958.0	2000.0	4.0	7.0				
	6700	CUBA	1 S	2022.5	2023.1	3.3	15.0	7.0		6R	
	2800	PENT	20 GRF	2057.0	2120.0	35.0	13.0				
	2800	PENT	40 F	2208.0	2222.0	23.0U	140.0				
	2800	HIRA	3 S	2220.0	2222.0	8.0	120.0			0	
	500	HIRA	8 S	2220.0	2222.0	7.0	350.0			0	
	200	HIRA	7 C	2220.0	2225.0	5.0	340.0			MR	
	245	PALE	49 GB	2220.0	2220.0	6.0	2400.0			QL=4 ST=2 TYP=6	
	410	PALE	49 GB	2220.0	2222.0	6.0	1400.0			QL=4 ST=2 TYP=6	
	610	PALE	49 GB	2220.0	2222.0	6.0	780.0			QL=4 ST=2 TYP=6	
	8800	PALE	49 GB	2220.0	2222.0	4.0	930.0			QL=4 ST=2 TYP=6	
	4995	PALE	4 S/F	2220.0	2222.0	6.0	380.0			QL=4 ST=2 TYP=3	
	1415	PALE	49 GB	2221.0	2222.0	5.0	700.0			QL=4 ST=2 TYP=6	
	2695	PALE	4 S/F	2221.0	2222.0	5.0	130.0			QL=4 ST=2 TYP=3	
	15400	PALE	4 S/F	2221.0	2222.0	5.0	490.0			QL=4 ST=2 TYP=3	
	2800	HIRA	4 S/F	2242.0	2246.0	7.0	65.0			0	
	500	HIRA	4 S/F	2244.0	2246.0	3.0	10.0			0	
	2695	PALE	8 S	2244.0	2246.0	2.0	72.0			QL=4 ST=2 TYP=3	
	4995	PALE	4 S/F	2244.0	2246.0	3.0	88.0			QL=4 ST=2 TYP=3	
	8800	PALE	8 S	2246.0	2246.0		49.0			QL=4 ST=2 TYP=3	
	2800	PENT	29 PBI	2340.0	2352.0	96.0	36.0				
	8800	LEAR	4 S/F	2349.0	2352.0	5.0	110.0			QL=4 ST=2 TYP=3	
	4995	LEAR	4 S/F	2350.0	2352.0	3.0	89.0			QL=4 ST=2 TYP=3	
	4995	PALE	8 S	2350.0	2352.0	2.0	80.0			QL=4 ST=3 TYP=3	
	8800	PALE	8 S	2350.0	2352.0	2.0	84.0			QL=4 ST=3 TYP=3	
	2695	LEAR	8 S	2351.0	2352.0	1.0	38.0			QL=4 ST=2 TYP=3	
	15400	LEAR	8 S	2351.0	2352.0	1.0	29.0			QL=4 ST=2 TYP=3	
	25	204	IZMI	44 NS	0600.0E		360.0D		70.0		
		127	TORN	43 NS	0730.0		450.0		350.0		V=2
		235	CUBA	44 NS	1300.0E		530.0D		16.0		
		280	CUBA	44 NS	1300.0E		530.0D		22.0		
		200	HIRA	8 S	0124.0	0124.0	1.0	175.0			MR
		200	HIRA	8 S	0533.0	0533.0	1.0	50.0			WR
		500	HIRA	8 S	0619.0	0619.0	1.0	20.0			0
		204	IZMI	42 SER	0624.6	0626.7	2.8	81.0			
		3000	IZMI	22 GRF	0805.8	0823.8	37.7	10.0	2.0		
		245	LEAR	4 S/F	0935.0	0937.0	3.0	45.0			QL=2 ST=2 TYP=3
		1415	LEAR	4 S/F	0935.0	0937.0	3.0	76.0			QL=4 ST=2 TYP=3
		410	LEAR	8 S	0936.0	0936.0	1.0	260.0			QL=2 ST=2 TYP=3
		410	LEAR	8 S	0936.0	0936.0	2.0	260.0			QL=2 ST=2 TYP=3
		610	LEAR	8 S	0936.0	0937.0	2.0	75.0			QL=4 ST=2 TYP=3
8800		SVTO	48 C	0936.0	0937.0	1.0	54.0			QL=4 ST=2 TYP=8	
410		SVTO	49 GB	0936.0	0936.0	1.0	860.0			QL=4 ST=2 TYP=6	
1415		SVTO	8 S	0936.0	0937.0	2.0	83.0			QL=4 ST=3 TYP=3	
900		GORK	46 C	0936.2	0937.3		54.0				
3000		IZMI	7 C	0936.2	0937.3	1.9	17.0	1.0			
2950		GORK	45 C	0936.2	0937.4	1.4	5.5U				
2950		GORK	45 C	0936.2	0936.8	1.4	8.2U				
900		GORK	46 C	0936.2	0936.8	2.8	33.0				
9100		GORK	46 C	0936.4	0937.2		60.0				
9100		GORK	46 C	0936.4	0936.9	2.0	50.0				
610		LEAR	8 S	0937.0	0937.0		67.0			QL=4 ST=2 TYP=3	
610		SVTO	8 S	0937.0	0937.0		130.0			QL=4 ST=2 TYP=3	
15400		SVTO	8 S	0937.0	0937.0		35.0			QL=4 ST=2 TYP=3	
204		IZMI	45 C	0937.5	0937.7	1.2	206.0				
9100		GORK	30 PBI	0938.4	0938.4	13.2	14.0				
9100		GORK	8 S	0951.2	0951.3	0.3	110.0				
410	SGMR	8 S	1114.0	1114.0		270.0			QL=4 ST=2 TYP=3		
410	SVTO	8 S	1114.0	1114.0		380.0			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

APRIL 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				
25	204	IZMI	42 SER	1134.3	1135.0	0.9	248.0					
	245	SGMR	8 S	1135.0	1135.0	U	130.0			QL=4 ST=3 TYP=3		
	410	SGMR	8 S	1144.0	1144.0	1.0	58.0			QL=4 ST=3 TYP=3		
	245	SGMR	8 S	1213.0	1214.0	1.0	91.0			QL=4 ST=2 TYP=3		
	410	SGMR	8 S	1226.0	1227.0	2.0	170.0			QL=4 ST=2 TYP=3		
	245	SGMR	49 GB	1227.0	1227.0	1.0	510.0			QL=4 ST=2 TYP=6		
	245	SVTO	49 GB	1227.0	1227.0	1.0	550.0			QL=4 ST=2 TYP=6		
	410	SVTO	8 S	1227.0	1227.0	1.0	230.0			QL=4 ST=2 TYP=3		
	245	SVTO	8 S	1246.0	1247.0	1.0	120.0			QL=4 ST=2 TYP=3		
	245	SGMR	8 S	1247.0	1247.0	1.0	150.0			QL=4 ST=2 TYP=3		
	6700	CUBA	31 ABS	1312.0	1335.0	30.0	7.0	3.0			11L	
	410	SVTO	49 GB	1342.0	1343.0	7.0	620.0				QL=4 ST=2 TYP=6	
	1415	SVTO	49 GB	1342.0	1343.0	4.0	1300.0				QL=4 ST=2 TYP=6	
	410	SGMR	49 GB	1342.0	1343.0	11.0	540.0				QL=4 ST=2 TYP=6	
	610	SGMR	49 GB	1342.0	1343.0	17.0	730.0				QL=4 ST=2 TYP=6	
	1415	SGMR	49 GB	1342.0	1343.0	12.0	1900.0				QL=4 ST=2 TYP=6	
	8800	SGMR	49 GB	1342.0	1345.0	17.0	610.0				QL=4 ST=2 TYP=6	
	4995	SVTO	20 GRF	1342.0	1345.0	17.0	420.0				QL=4 ST=2 TYP=2	
	2695	SVTO	4 S/F	1342.0	1344.0	14.0	200.0				QL=4 ST=2 TYP=3	
	8800	SVTO	49 GB	1342.0	1345.0	20.0	640.0				QL=4 ST=2 TYP=6	
	6700	CUBA	47 GB	1342.0	1345.2	13.2	1197.0	598.0			4L	
	235	CUBA	41 F	1342.4	1345.1	7.6	309.0					
	280	CUBA	41 F	1342.4	1345.1	7.6	1722.0					
	610	SVTO	49 GB	1343.0	1343.0	1.0	580.0				QL=4 ST=2 TYP=6	
	245	SVTO	8 S	1343.0	1343.0	1.0	180.0				QL=2 ST=3 TYP=3	
	33	UPIC	46 C	1343.0	1344.0	5.0						
	245	SGMR	48 C	1343.0	1349.0	16.0	820.0				QL=4 ST=2 TYP=8	
	15400	SGMR	49 GB	1343.0	1343.0	16.0	550.0				QL=4 ST=2 TYP=6	
	4995	SGMR	20 GRF	1343.0	1345.0	16.0	460.0				QL=4 ST=2 TYP=2	
	2695	SGMR	4 S/F	1343.0	1344.0	14.0	180.0				QL=4 ST=2 TYP=3	
	15400	SVTO	49 GB	1343.0	1343.0	15.0	520.0				QL=4 ST=2 TYP=6	
	33	UPIC	31 ABS	1348.0E	1348.0U	42.0D						
	6700	CUBA	29 PBI	1355.2		28.0	133.0	66.0			7L	
	2800	PENT	29 PBI	1525.0	1537.0	67.0	11.0					
	245	SVTO	8 S	1640.0	1641.0	1.0	54.0				QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1649.0	1649.0	1.0	110.0				QL=4 ST=2 TYP=3	
	2800	PENT	29 PBI	1815.0	1826.0	77.0U	59.0					
	2695	SGMR	4 S/F	1825.0	1826.0	3.0	53.0				QL=4 ST=2 TYP=3	
	4995	SGMR	8 S	1826.0	1826.0	2.0	51.0				QL=4 ST=2 TYP=3	
	26	245	LEAR	43 NS	0059.0	0433.0	528.0	190.0				QL=2 ST=2 TYP=1
		245	PALE	43 NS	0059.0	0000.0	1381.0					QL=4 ST=1 TYP=1
		245	PALE	43 NS	0104.0	0115.0	214.0	180.0				QL=4 ST=2 TYP=1
245		SVTO	43 NS	0433.0	1133.0	429.0	290.0				QL=2 ST=2 TYP=1	
204		IZMI	44 NS	0600.0E		360.0D		55.0				
127		TORN	44 NS	0630.0E		510.0D		670.0U			V=0, DISTURBED	
245		SGMR	43 NS	1026.0	1137.0	101.0	300.0				QL=4 ST=2 TYP=1	
410		SVTO	43 NS	1126.0	1130.0	10.0	90.0				QL=2 ST=2 TYP=1	
235		CUBA	44 NS	1300.0E		530.0D		19.0				
280		CUBA	44 NS	1300.0E		530.0D		19.0				
500		HIRA	8 S	0043.0	0043.0	1.0	15.0				0	
2800		PENT	29 PBI	0057.0	0103.0	37.0U	20.0					
4995		LEAR	4 S/F	0101.0	0103.0	8.0	60.0				QL=4 ST=2 TYP=3	
8800		LEAR	4 S/F	0102.0	0105.0	7.0	21.0				QL=4 ST=2 TYP=3	
200		HIRA	7 C	0430.0	0434.0	7.0	285.0				WR	
2950		GORK	21 GRF	0607.5	0632.8	61.5	20.0					
3000		IZMI	7 C	0619.0	0630.0	27.0	39.0					
2950		GORK	1 S	0620.0	0620.6	1.0	5.4					
2950		GORK	45 C	0630.6	0631.0	1.7	9.5					
2950		GORK	45 C	0630.6	0631.7		8.1					
2950		GORK	20 GRF	0751.0	0827.3	78.0D	14.0					
410		SVTO	8 S	1118.0	1118.0	1.0	67.0				QL=4 ST=2 TYP=3	
1415		SGMR	8 S	1123.0	1124.0	1.0	64.0				QL=4 ST=2 TYP=3	
1415		SVTO	48 C	1123.0	1130.0	8.0	1500.0				QL=4 ST=2 TYP=8	
1415		SGMR	49 GB	1125.0	1130.0	7.0	1400.0				QL=4 ST=2 TYP=6	
3000		IZMI	7 C	1126.0	1129.0	5.0	19.0					
8800		SGMR	20 GRF	1140.0E	1218.0	168.0D	54.0				QL=4 ST=3 TYP=2	
1415	SGMR	4 S/F	1141.0	1142.0	3.0	160.0				QL=4 ST=2 TYP=3		
1415	SVTO	8 S	1141.0	1142.0	2.0	190.0				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

45
Apr 01

APRIL 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)			
26	245	SGMR	8 S	1142.0	1142.0	2.0	370.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1142.0	1142.0	1.0	320.0			QL=4 ST=2 TYP=3
	33	UPIC	49 GB	1156.0	1159.0	114.0				
	410	SGMR	8 S	1232.0	1232.0		52.0			QL=4 ST=2 TYP=3
	8800	SGMR	48 C	1233.0	1307.0	34.0	130.0			QL=4 ST=3 TYP=8
	410	SVTO	4 S/F	1236.0	1238.0	19.0	290.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1236.0	1238.0	17.0	110.0			QL=4 ST=2 TYP=3
	1415	SGMR	48 C	1236.0	1307.0	31.0	110.0			QL=4 ST=3 TYP=8
	4995	SGMR	48 C	1236.0	1307.0	31.0	98.0			QL=4 ST=3 TYP=8
	610	SGMR	4 S/F	1236.0	1238.0	31.0	360.0			QL=4 ST=3 TYP=3
	245	SVTO	4 S/F	1237.0	1241.0	20.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1237.0	1238.0	20.0	420.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1237.0	1240.0	20.0	53.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1237.0	1240.0	20.0	37.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1237.0	1239.0	20.0	43.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1237.0	1307.0	30.0	340.0			QL=4 ST=3 TYP=8
	410	SGMR	48 C	1237.0	1238.0	30.0	210.0			QL=4 ST=3 TYP=8
	2695	SGMR	48 C	1237.0	1307.0	30.0	66.0			QL=4 ST=3 TYP=8
	15400	SGMR	4 S/F	1237.0	1238.0	30.0	38.0			QL=4 ST=3 TYP=3
	4995	SVTO	4 S/F	1238.0	1239.0	19.0	35.0			QL=4 ST=2 TYP=3
	6700	CUBA	21 GRF	1252.0	1321.0	42.0	25.0	12.0		4L
	1415	SVTO	8 S	1303.0	1303.0		57.0			QL=4 ST=2 TYP=3
	6700	CUBA	47 GB	1305.2	1310.2	6.8	1312.0	656.0		8L
	8800	SVTO	49 GB	1306.0	1310.0	17.0	820.0			QL=4 ST=2 TYP=6
	4995	SVTO	4 S/F	1306.0	1309.0	17.0	470.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1307.0	1308.0	5.0	1300.0			QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	1307.0	1308.0	4.0	2600.0			QL=4 ST=2 TYP=6
	245	SVTO	48 C	1307.0	1311.0	16.0	1700.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1307.0	1307.0	10.0	360.0			QL=4 ST=2 TYP=8
	15400	SVTO	49 GB	1307.0	1310.0	16.0	600.0			QL=4 ST=2 TYP=6
	2695	SGMR	48 C	1307.0	1307.0	26.0	350.0			QL=4 ST=2 TYP=8
	245	SGMR	49 GB	1307.0	1307.0	26.0	1500.0			QL=4 ST=2 TYP=6
	410	SGMR	49 GB	1307.0	1308.0	26.0	790.0			QL=4 ST=2 TYP=6
	1415	SGMR	49 GB	1307.0	1308.0	26.0	2700.0			QL=4 ST=2 TYP=6
	4995	SGMR	49 GB	1307.0	1309.0	26.0	540.0			QL=4 ST=2 TYP=6
	8800	SGMR	49 GB	1307.0	1310.0	26.0	910.0			QL=4 ST=2 TYP=6
	15400	SGMR	49 GB	1307.0	1310.0	26.0	610.0			QL=4 ST=2 TYP=6
	610	SGMR	4 S/F	1307.0	1310.0	26.0	420.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1325.0	1326.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1326.0	1326.0		90.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1329.0	1330.0	2.0	120.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1342.0	1344.0	8.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1343.0	1343.0	4.0	64.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1343.0	1346.0	14.0	60.0			QL=4 ST=2 TYP=8
	410	SGMR	4 S/F	1343.0	1344.0	14.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1345.0	1346.0	12.0	47.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	1356.0	1403.0	8.0	71.0			QL=4 ST=3 TYP=8
410	SGMR	48 C	1356.0	1400.0	8.0	130.0			QL=4 ST=3 TYP=8	
245	SVTO	20 GRF	1357.0	1403.0	13.0	66.0			QL=4 ST=2 TYP=2	
410	SVTO	4 S/F	1357.0	1400.0	13.0	160.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1909.0	1909.0		100.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1909.0	1909.0		99.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2300.0	2301.0	1.0	150.0			QL=4 ST=2 TYP=3	
27	204	IZMI	44 NS	0600.0E		370.0D		30.0		
	127	TORN	44 NS	0700.0E		480.0D		100.0		V=1,DISTURBED
	410	PALE	8 S	0215.0	0216.0	1.0	140.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0607.4	0607.6	0.4	38.0			
	900	GORK	40 F	0627.4	0627.8	1.2	34.0			
	500	HIRA	8 S	0655.0	0656.0	1.0	10.0			0
	245	SVTO	49 GB	0655.0	0656.0	2.0	3000.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0655.0	0655.0	1.0	43.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0655.7	0657.1		26.0			
	9100	GORK	46 C	0655.7	0657.6		28.0			
	9100	GORK	46 C	0655.7	0656.7	2.9	20.0			
	200	HIRA	47 GB	0656.0	0656.0	1.0	1615.0			WR
	4995	SVTO	8 S	0656.0	0657.0	2.0	37.0			QL=4 ST=2 TYP=3
2950	GORK	1 S	0656.0	0658.3	4.0	6.4				
3000	IZMI	20 GRF	0656.1	0658.5	4.4	12.0		6.0		

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

APRIL 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		
27	204	IZMI	45 C	0656.5	0656.8	1.3	8506.0			
	900	GORK	1 S	0656.6	0657.4	1.1	4.5			
	8800	SVTO	8 S	0657.0	0657.0	U	28.0			QL=4 ST=2 TYP=3
	3000	IZMI	7 C	0707.2	0707.4	0.6	11.0	6.0		
	204	IZMI	42 SER	0821.9	0822.2	0.6	97.0			
	200	HIRA	8 S	0822.0	0822.0	1.0	25.0			0
	200	HIRA	8 S	0859.0	0859.0	1.0	40.0			WR
	204	IZMI	25 R	1153.1		16.90		30.0		
	204	IZMI	41 F	1153.4	1155.4	33.1	39.0			
	204	IZMI	45 C	1159.1	1159.3	0.6	98.0			
	245	SGMR	8 S	1720.0	1720.0	U	89.0			QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	1751.0	1806.0	30.0	5.0			
	6700	CUBA	21 GRF	1810.0	1917.0	107.0	34.0	17.0		2R
	245	PALE	8 S	1818.0	1818.0	U	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1818.0	1818.0	U	67.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1857.0	1857.0	U	140.0			QL=4 ST=2 TYP=3
	2800	PENT	21 GRF	1905.0	1918.0	27.00	4.0			
	9500	CUBA	22 GRF	1907.0	1918.0	41.0	30.0	15.0		
	6700	CUBA	1 S	1913.2	1913.8	0.8	11.0	5.0		13R
	9500	CUBA	1 S	1938.5	1939.1	1.5	11.0	5.0		
	200	HIRA	8 S	2001.0	2002.0	2.0	435.0			WR
	245	PALE	49 GB	2001.0	2001.0	1.0	1300.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	2001.0	2001.0	1.0	1100.0			QL=4 ST=2 TYP=6
	2800	PENT	41 F	2035.0	2041.0	19.0	10.0			
	6700	CUBA	1 S	2038.8	2039.2	1.2	11.0	5.0		17R
	500	HIRA	8 S	2117.0	2118.0	1.0	15.0			0
	2800	PENT	24 R	2125.0	2135.0	35.0	7.0			
245	PALE	8 S	2126.0	2127.0	1.0	200.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2129.0	2129.0	1.0	84.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2315.0	2316.0	1.0	20.0			0	
28	280	CUBA	44 NS	1300.0E		300.00		14.0		
	235	CUBA	44 NS	1300.0E		530.00		6.0		
	500	HIRA	8 S	0310.0	0310.0	1.0	50.0			0
	200	HIRA	8 S	0310.0	0310.0	1.0	10.0			0
	2950	GORK	20 GRF	0652.2	0656.2	10.1	8.0			
	8800	LEAR	8 S	0655.0	0656.0	2.0	31.0			QL=4 ST=2 TYP=3
	3000	IZMI	22 GRF	0655.1	0656.9	6.3	11.0	5.0		
	3000	IZMI	5 S	0700.2	0700.3	0.2	21.0	7.0		
	204	IZMI	42 SER	0718.9	0719.2	0.4	14.0			
	2950	GORK	21 GRF	0907.6	0921.9	47.8	32.0			
	3000	IZMI	45 C	0910.1	0919.6	76.1	49.0	7.0		
	204	IZMI	7 C	0913.7	0913.8	0.2	30.0			
	900	GORK	42 SER	0916.5	0926.1		8.9			
	900	GORK	42 SER	0916.5	0917.5	27.2	14.0			
	2950	GORK	4 S/F	0917.4	0919.6	3.8	20.0			
	2695	SVTO	8 S	0919.0	0919.0	1.0	32.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0922.0	0922.0	U	23.0			QL=4 ST=2 TYP=3
	2950	GORK	1 S	0929.8	0931.1	3.2	9.4			
2695	LEAR	4 S/F	0931.0	0932.0	4.0	33.0			QL=4 ST=2 TYP=3	
8800	LEAR	4 S/F	0932.0	0933.0	3.0	29.0			QL=4 ST=2 TYP=3	
2800	PENT	21 GRF	1543.0	1613.0	49.0	9.0				
245	SGMR	8 S	1755.0	1755.0	U	88.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1915.0	1916.0	1.0	66.0			QL=4 ST=2 TYP=3	
29	235	CUBA	44 NS	1300.0E		390.00		10.0		
	280	CUBA	44 NS	1300.0E		390.00		17.0		
	200	HIRA	8 S	0029.0	0029.0	1.0	100.0			0
	200	HIRA	8 S	0259.0	0259.0	1.0	10.0			0
	200	HIRA	8 S	0519.0	0519.0	1.0	15.0			
	204	IZMI	7 C	0649.5	0649.6	0.4	20.0			
	200	HIRA	8 S	0650.0	0650.0	1.0	5.0			
	410	LEAR	8 S	0654.0	0655.0	1.0	62.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	0719.0	0720.6	2.8	21.0			
	204	IZMI	42 SER	0847.3	0847.4	0.4	10.0			
	204	IZMI	42 SER	1015.6	1031.8	18.2	23.0			
	2800	PENT	32 ABS	1451.0	1505.0	36.0	5.0			
	200	HIRA	8 S	2054.0	2055.0	1.0	5.0			0
	200	HIRA	8 S	2101.0	2101.0	1.0	20.0			0

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

47
Apr 01

APRIL 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	204 IZMI	43 NS	0600.0		360.0D		10.0		
	[245 SGMR	8 S	1036.0	1037.0	1.0	160.0			QL=4 ST=2 TYP=3
	[245 SVTO	8 S	1036.0	1037.0	1.0	180.0			QL=4 ST=2 TYP=3
	[204 IZMI	42 SER	1036.7	1037.0	0.6	139.0			
	[204 IZMI	45 C	1039.8	1039.9	0.2	368.0			
	[204 IZMI	46 C	1057.6	1058.2	0.9	172.0			
	[410 SGMR	8 S	1100.0	1100.0	U	90.0			QL=4 ST=2 TYP=3
	[410 SVTO	8 S	1100.0	1100.0	U	90.0			QL=4 ST=2 TYP=3
	[245 SGMR	8 S	1127.0	1127.0	1.0	250.0			QL=4 ST=2 TYP=3
	[245 SVTO	8 S	1127.0	1127.0	2.0	270.0			QL=4 ST=2 TYP=3
	[410 SVTO	8 S	1127.0	1127.0	2.0	28.0			QL=4 ST=2 TYP=3
	[8800 SVTO	8 S	1156.0	1156.0	1.0	33.0			QL=4 ST=3 TYP=3
	[410 SVTO	4 S/F	1156.0	1157.0	3.0	490.0			QL=4 ST=3 TYP=3
	[3000 IZMI	7 C	1156.6	1156.8	1.5	10.0	5.0		
	[410 SGMR	8 S	1157.0	1157.0	1.0	200.0			QL=4 ST=2 TYP=3
	[410 SVTO	8 S	1400.0	1400.0	U	51.0			QL=4 ST=2 TYP=3
	[245 SGMR	49 GB	1414.0	1414.0	1.0	12000.0			QL=4 ST=2 TYP=6
	[410 SGMR	8 S	1414.0	1414.0	1.0	220.0			QL=4 ST=2 TYP=3
	[245 SVTO	49 GB	1414.0	1414.0	1.0	13000.0			QL=4 ST=2 TYP=6
	[410 SVTO	8 S	1414.0	1414.0	1.0	390.0			QL=4 ST=2 TYP=3
	[245 SGMR	8 S	1619.0	1620.0	2.0	410.0			QL=4 ST=2 TYP=3
	[410 SGMR	8 S	1619.0	1620.0	2.0	37.0			QL=4 ST=2 TYP=3
	[245 SVTO	8 S	1619.0	1620.0	1.0	370.0			QL=4 ST=2 TYP=3
	[245 PALE	8 S	1754.0	1754.0	U	59.0			QL=4 ST=2 TYP=3
	[410 PALE	8 S	1754.0	1754.0	U	110.0			QL=4 ST=2 TYP=3
	[245 SGMR	8 S	1754.0	1754.0	1.0	81.0			QL=4 ST=3 TYP=3
	[410 SGMR	8 S	1754.0	1754.0	1.0	120.0			QL=4 ST=3 TYP=3
	[245 PALE	8 S	1909.0	1909.0	U	110.0			QL=4 ST=2 TYP=3
	[245 SGMR	8 S	1909.0	1909.0	1.0	240.0			QL=4 ST=2 TYP=3
	[410 SGMR	8 S	1913.0	1913.0	1.0	61.0			QL=4 ST=2 TYP=3
	[500 HIRA	8 S	2111.0	2111.0	1.0	25.0			0
	[200 HIRA	8 S	2111.0	2112.0	1.0	95.0			0
	[245 PALE	49 GB	2211.0	2211.0	1.0	1100.0			QL=4 ST=2 TYP=6
	[410 PALE	8 S	2211.0	2211.0	1.0	390.0			QL=4 ST=2 TYP=3
	[245 SGMR	49 GB	2211.0	2211.0	1.0	790.0			QL=4 ST=2 TYP=6
	[410 SGMR	8 S	2211.0	2211.0	1.0	270.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

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

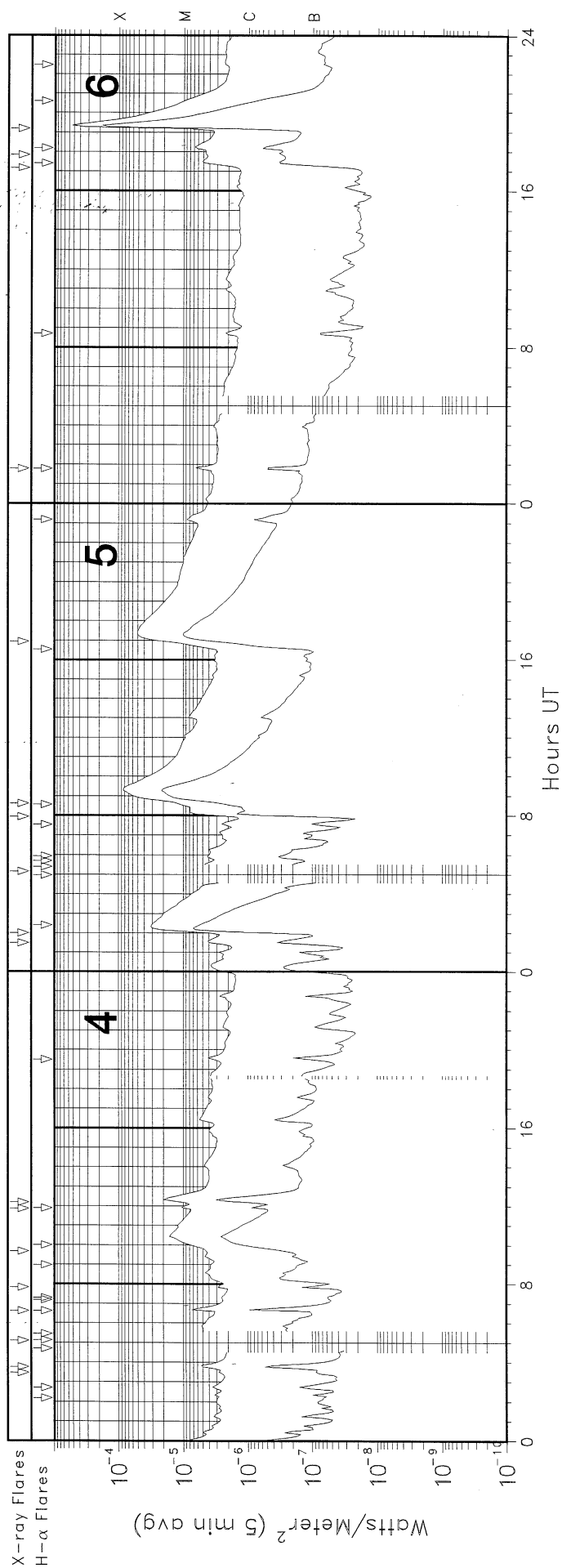
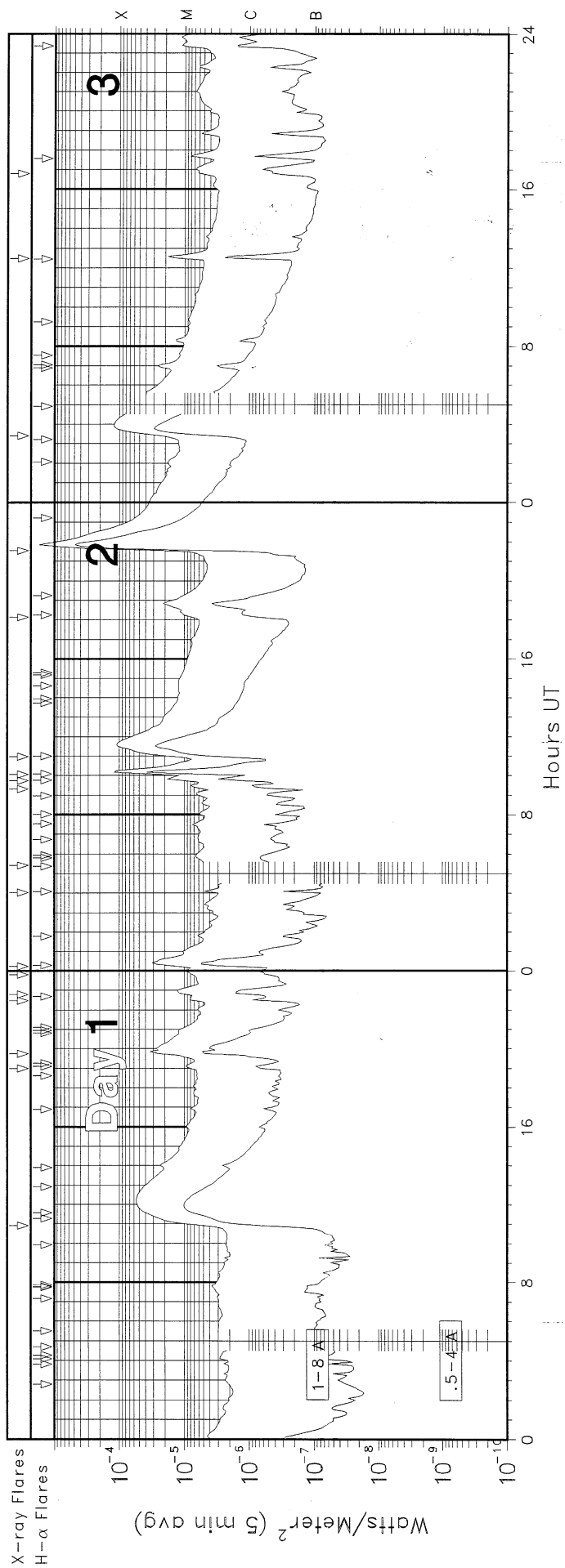
Explanation of Type Code:

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

1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A

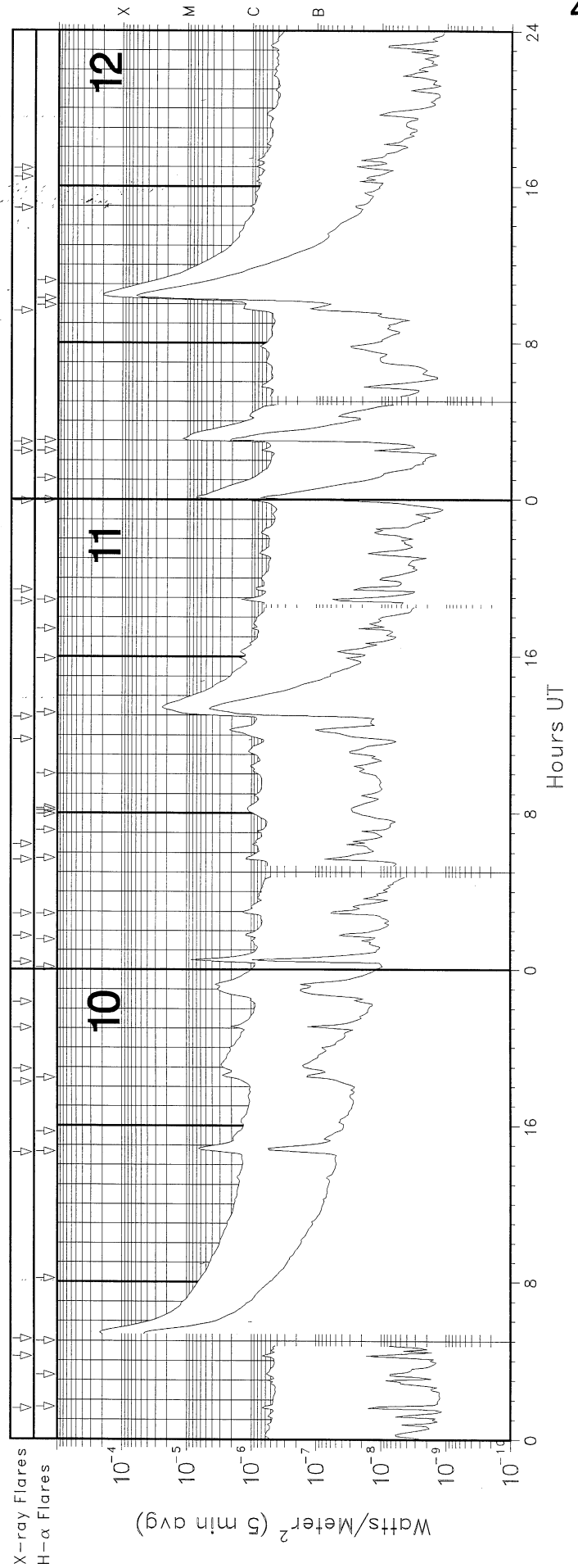
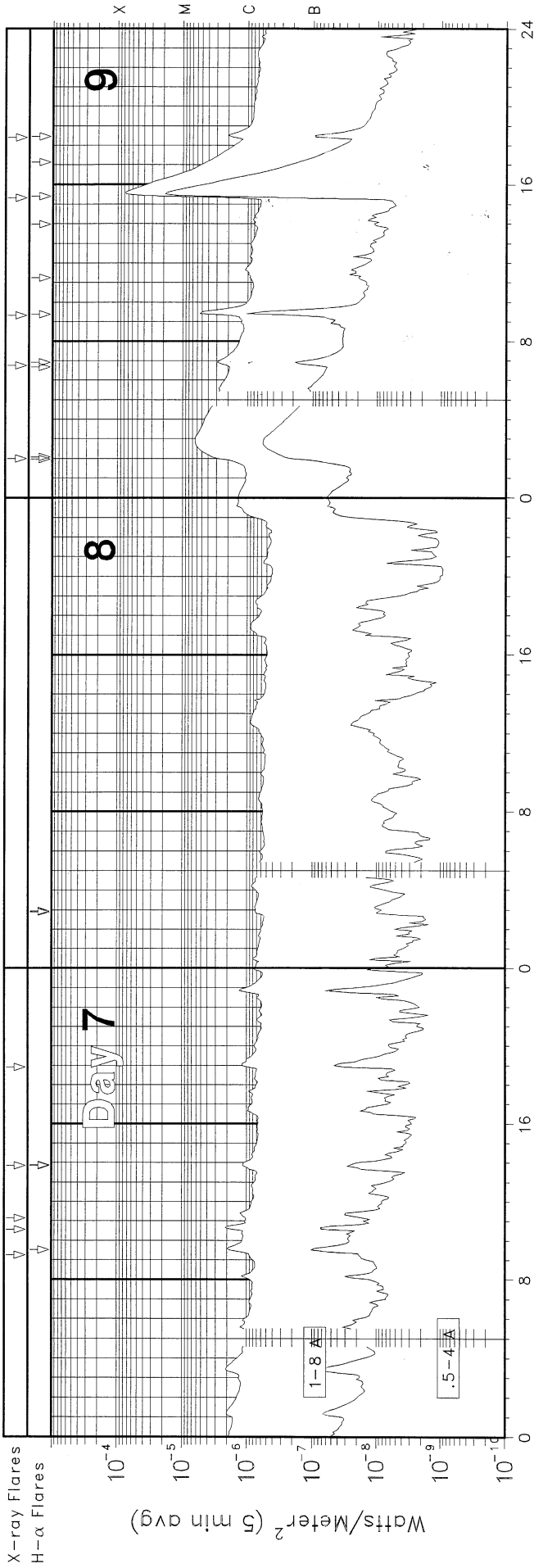
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; and Hiraiso, Japan 500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

GOES X-RAY DETECTOR April 2001



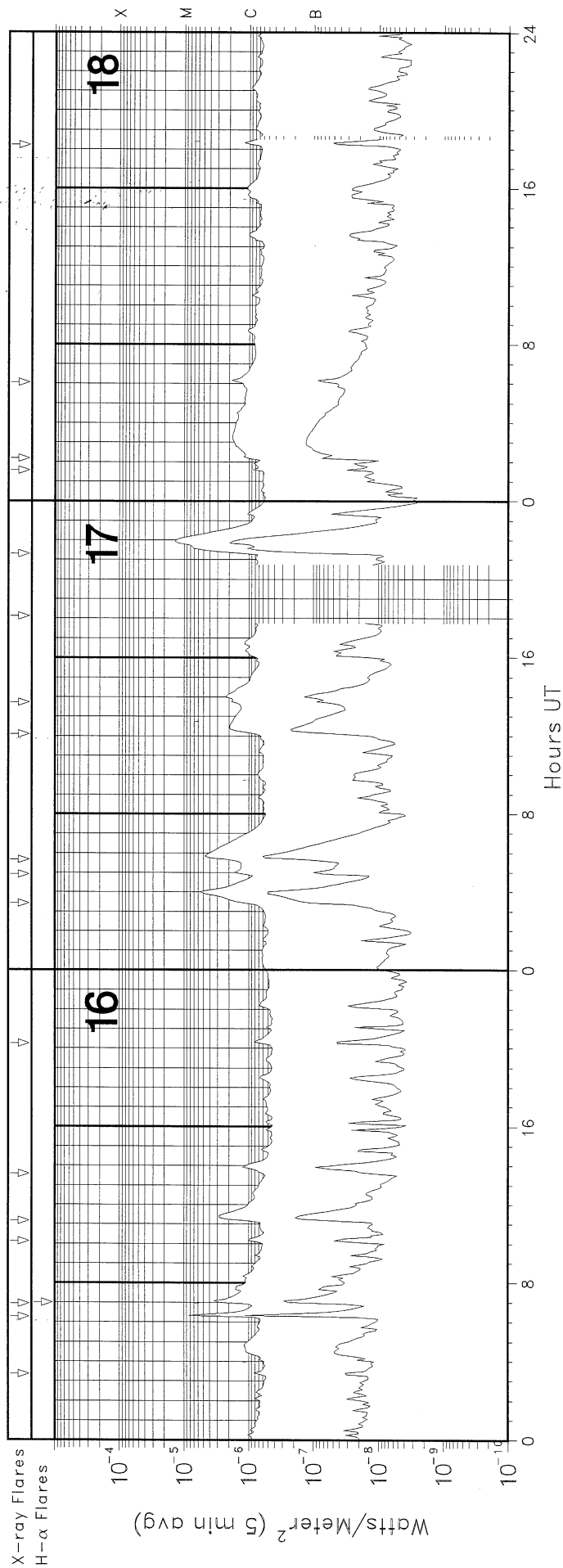
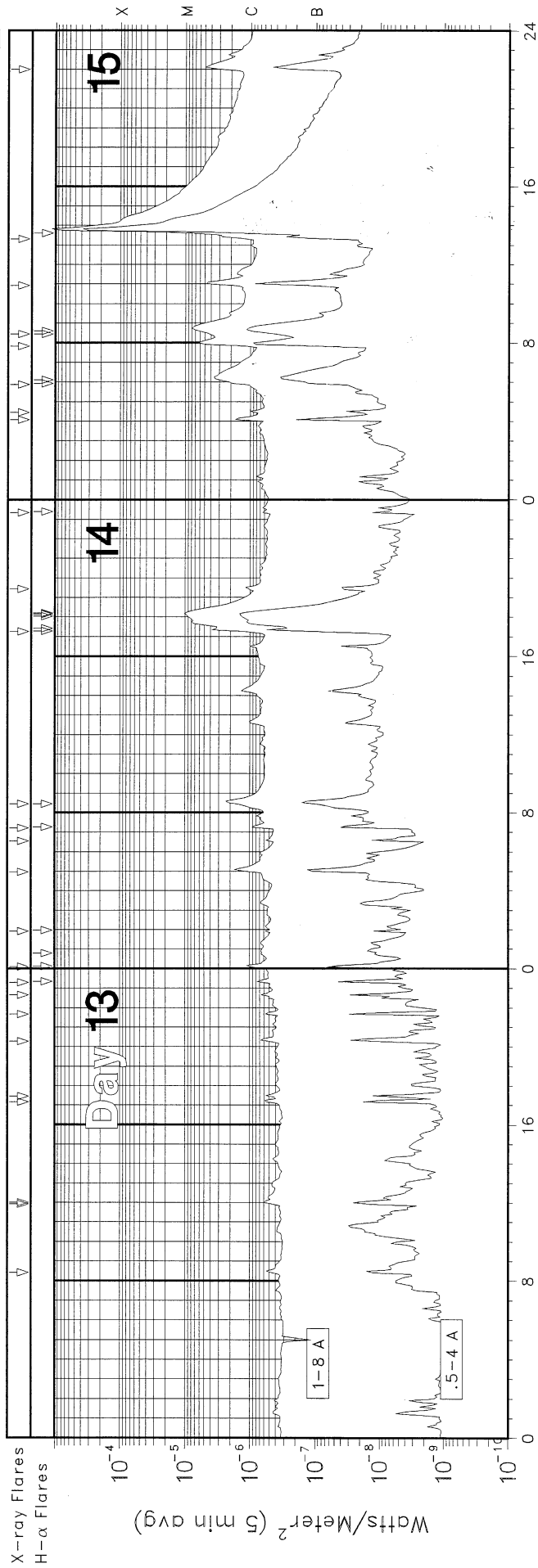
GOES X-RAY DETECTOR

April 2001



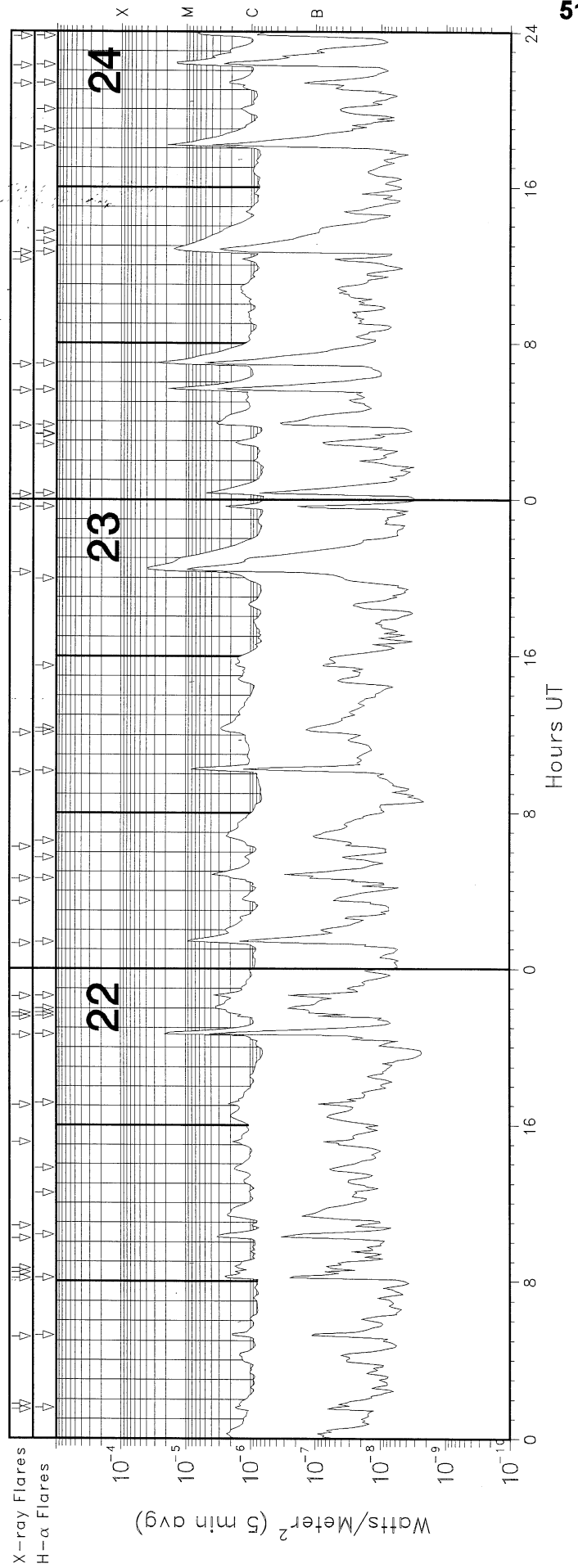
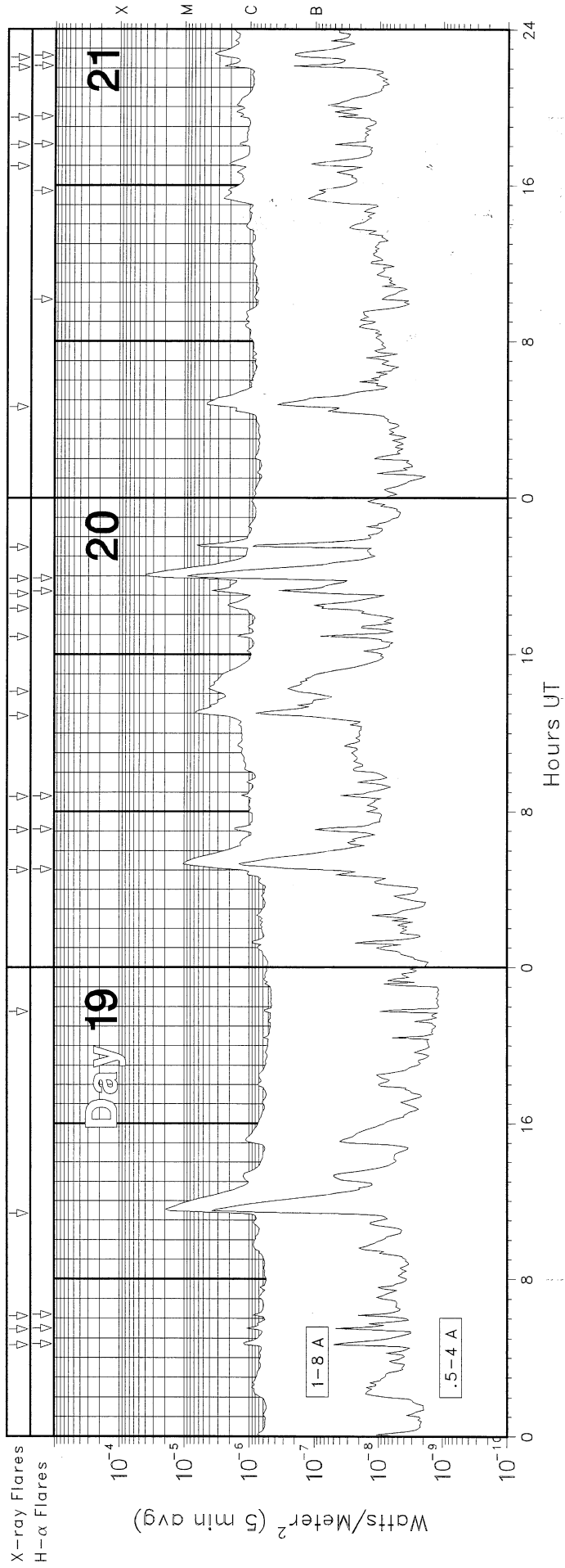
GOES X-RAY DETECTOR

April 2001

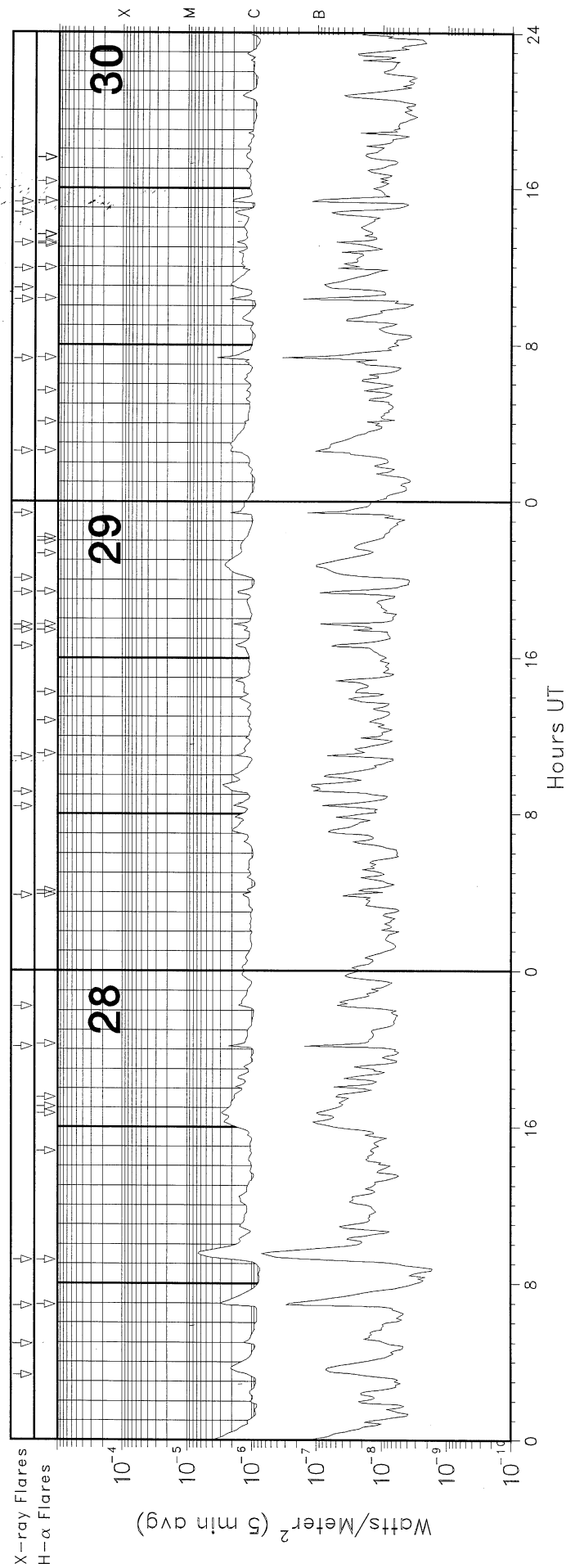
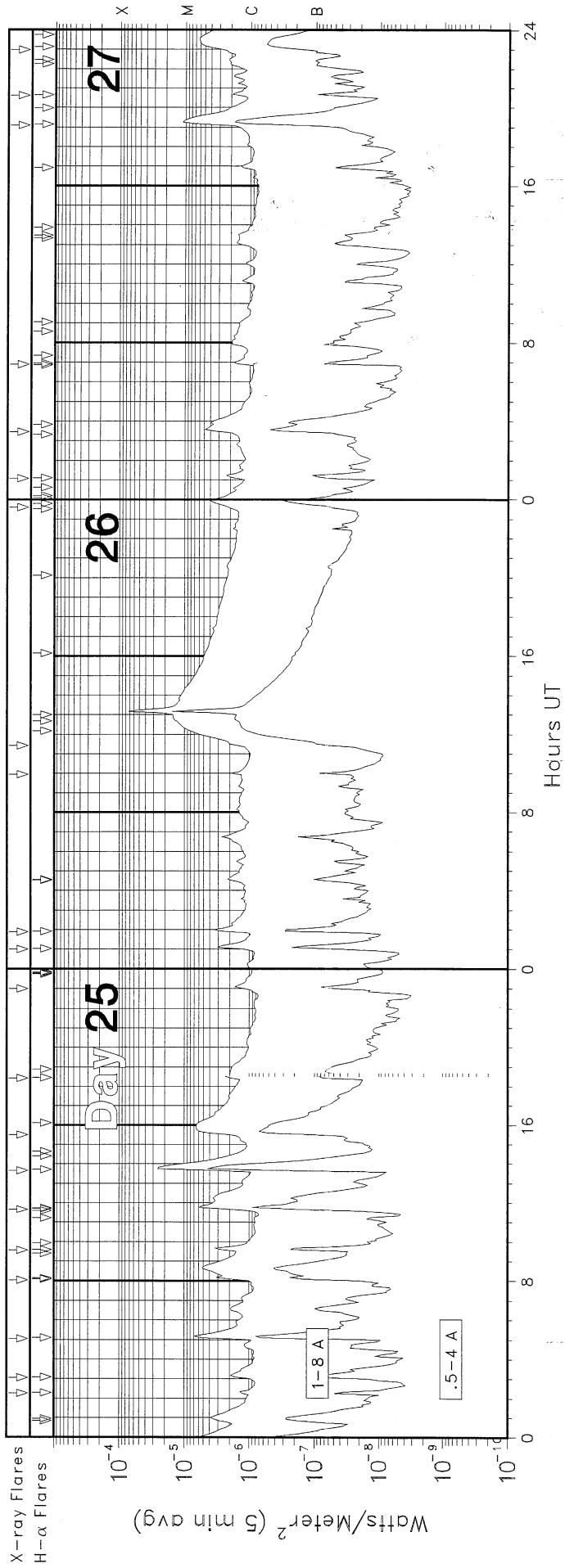


GOES X-RAY DETECTOR

April 2001



GOES X-RAY DETECTOR April 2001



GOES S O L A R X-RAY F L A R E S
 Preliminary Listing

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 Apr 01

April 2001

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	1055	1217	1324				M5.5	3.6E-03	
01	1900	1907	1916	N17	W49	SF	C9.9	9393	8.8E-03
01	1944	1949	1956	N17	W57	1F	M4.0	9393	2.1E-02
01	2228	2232	2246	N15	W60	SF	C9.0	9393	8.4E-03
01	2247	2301	2309	N12	W61	1N	M1.2	9393	1.5E-02
01	2348	0003	0007				M1.0		9.7E-03
02	0014	0028	0040	N17	W57	SF	M3.2	9393	3.8E-02
02	0403	0408	0411	N11	W63	SF	C5.5	9393	2.1E-03
02	0525	0528	0532	N13	W63	SF	M1.0	9393	3.6E-03
02	0919	0931	0937	N17	W62	1F	C8.5	9393	7.4E-03
02	0945	0952	0959	N15	W64	SF	M1.9	9393	1.3E-02
02	1004	1014	1020	N17	W60	1B	X1.4	9393	8.6E-02
02	1058	1136	1205				X1.1		3.0E-01
02	1808	1850	1920	N19	W72	1F	M2.1	9393	5.7E-02
02	2132	2151	2203				20.0	9393	1.5E00
03	0325	0357	0455	S21	E83	1N	X1.2	9415	4.0E-01
03	1229	1234	1238	N15	W88	2F	M2.4	9393	9.0E-03
03	1647	1703	1713				C7.1		1.0E-02
04	0327	0330	0333				C3.2		1.0E-03
04	0345	0349	0353				C6.4		2.6E-03
04	0505	0533	0617	S19	E71	1F	C5.6	9415	2.0E-02
04	0637	0642	0647	N15	W88	1F	C8.7	9393	3.8E-03
04	0750	0754	0757				C3.2		1.2E-03
04	0941	1027	1111	S21	E68	SF	M1.6	9415	5.9E-02
04	1152	1159	1203	N28	W67	SF	M1.1	9401	6.3E-03
04	1212	1222	1230				M2.0		1.7E-02
05	0129	0134	0143				C4.4		3.3E-03
05	0200	0220	0311				M3.1	9418	9.6E-02
05	0510	0518	0527				M1.1		8.9E-03
05	0757	0834	0836	S08	E35	SN	M1.2	9417	1.6E-02
05	0837	0922	0954				M8.4	9417	2.6E-01
05	1657	1725	1814	S24	E50	2N	M5.1	9415	2.0E-01
06	0146	0149	0154	S24	E44	SN	C7.7	9415	3.1E-03
06	1711	1732	1750	S19	E32	SF	C5.0	9415	8.8E-03
06	1751	1815	1839	S12	E17	SF	C7.0	9417	1.5E-02
06	1910	1921	1931	S21	E31	SF	X5.6	9415	4.1E-01
07	0915	0935	0948	S08	E11	SF	C2.0	9417	2.9E-03
07	1034	1039	1049				C2.3		1.7E-03
07	1109	1124	1131				C1.2		1.5E-03
07	1351	1353	1358	S24	E20	SF	C1.2	9415	4.8E-04
07	1854	1904	1922				C1.2		1.8E-03
09	0159	0256	0414	S22	E06	SF	C6.4	9415	4.2E-02
09	0646	0657	0707	S20	E00	SF	C3.0	9415	3.3E-03
09	0920	0928	0936	S21	W02	SF	C6.1	9415	4.0E-03
09	1520	1534	1600	S21	W04	2B	M7.9	9415	1.3E-01
09	1824	1829	1839	S22	W10	SF	C2.1	9415	1.7E-03
10	0134	0137	0142	N07	W74	SF	B8.1	9419	3.3E-04
10	0412	0416	0419				B7.3		2.7E-04
10	0506	0526	0542	S23	W09	3B	X2.3	9415	3.0E-01
10	1437	1451	1501	S07	W35	SF	C6.5	9417	6.8E-03
10	1815	1837	1850	S18	W19	SF	C2.7	9415	4.2E-03
10	1854	1907	1952				C2.9		8.8E-03
10	2101	2105	2109				C2.4		9.1E-04
10	2220	2301	2329				C3.3		9.4E-03
11	0024	0031	0035				M1.0		3.9E-03
11	0144	0148	0153				C1.4		6.5E-04
11	0253	0300	0305	S05	W42	SF	C1.5	9417	8.9E-04
11	0538	0543	0549				C1.4		7.6E-04
11	0625	0628	0630				C1.1		2.9E-04
11	1146	1216	1226				C2.2		3.3E-03
11	1256	1326	1349	S22	W27	1F	M2.3	9415	4.8E-02
11	1849	1855	1859	S16	W03	SF	C1.6	9424	7.4E-04
11	1925	1929	1932				C1.2		3.9E-04
11	2356	0008	0025	S27	W33	2F	C7.7	9415	8.4E-03
12	0227	0232	0238	S18	W37	SF	B7.2	9415	4.3E-04
12	0256	0304	0329	S22	W38	1N	M1.3	9415	1.7E-02
12	0939	1028	1049	S19	W43	SF	X2.0	9415	3.0E-01
12	1454	1501	1504				C1.1		6.1E-04
12	1628	1629	1631				C1.0		1.6E-04
12	1656	1701	1705				B9.4		4.5E-04
13	0825	0830	0836				B5.8		3.4E-04
13	1155	1158	1200				B5.8		1.4E-04
13	1200	1203	1207				B7.3		2.6E-04
13	1710	1714	1717				B7.5		2.6E-04
13	1727	1731	1736				B5.8		2.8E-04
13	2017	2024	2026				B9.5		3.6E-04
13	2140	2143	2146				B7.4		2.2E-04
13	2239	2242	2245				B7.3		2.3E-04
13	2318	2323	2326				B9.1		3.5E-04
14	0006	0009	0012	S19	W61	SF	C1.6	9415	4.5E-04
14	0156	0159	0201	S22	W64	SF	B7.1	9415	1.8E-04
14	0459	0506	0514				C1.7		1.3E-03
14	0634	0638	0640				B6.9		2.0E-04
14	0713	0718	0723	S21	W62	SF	C1.1	9415	5.0E-04
14	0828	0835	0840	S18	W67	SF	C2.4	9415	1.6E-03
14	1715	1811	1828	S16	W71	SF	M1.0	9415	2.9E-02
14	1926	1930	1933				C1.2		4.9E-04
14	2320	2323	2326	S20	W71	SF	B7.9	9415	2.4E-04
15	0404	0408	0412				C2.2		8.0E-04
15	0427	0432	0435				C1.0		4.4E-04
15	0553	0614	0639	S22	W81	SF	C3.6	9415	7.7E-03
15	0750	0801	0815				C6.7		6.8E-03
15	0826	0845	0907	S24	W82	SF	C7.7	9415	1.5E-02
15	1056	1104	1111				C5.3		3.5E-03
15	1319	1350	1355	S20	W85	2B	14.4	9415	6.1E-01
15	2159	2207	2222				C5.1		5.5E-03
16	0321	0325	0329				B9.0		3.8E-04
16	0616	0622	0625				M1.1		2.9E-03
16	0656	0706	0712	S19	W90	SF	C3.7	9415	2.5E-03
16	1007	1011	1020				C1.0		7.3E-04
16	1110	1124	1141				C2.9		4.3E-03
16	1335	1357	1410				C1.2		1.9E-03
16	2015	2021	2030				B8.3		6.6E-04
17	0325	0401	0412				C5.8		8.7E-03
17	0455	0502	0518				C1.6		2.0E-03
17	0541	0552	0611				C4.7		7.1E-03
17	1206	1229	1250				C1.9		4.4E-03
17	1344	1401	1415				C2.2		3.7E-03
17	1807	1853	1904				C2.5		6.3E-03
17	2118	2157	2216				M1.3		2.9E-02
18	0133	0136	0141				B9.1		3.9E-04
18	0211	0214	0216				C2.2		4.0E-04
18	0604	0611	0616				C1.9		1.2E-03
18	1813	1821	1827				C1.2		8.6E-04

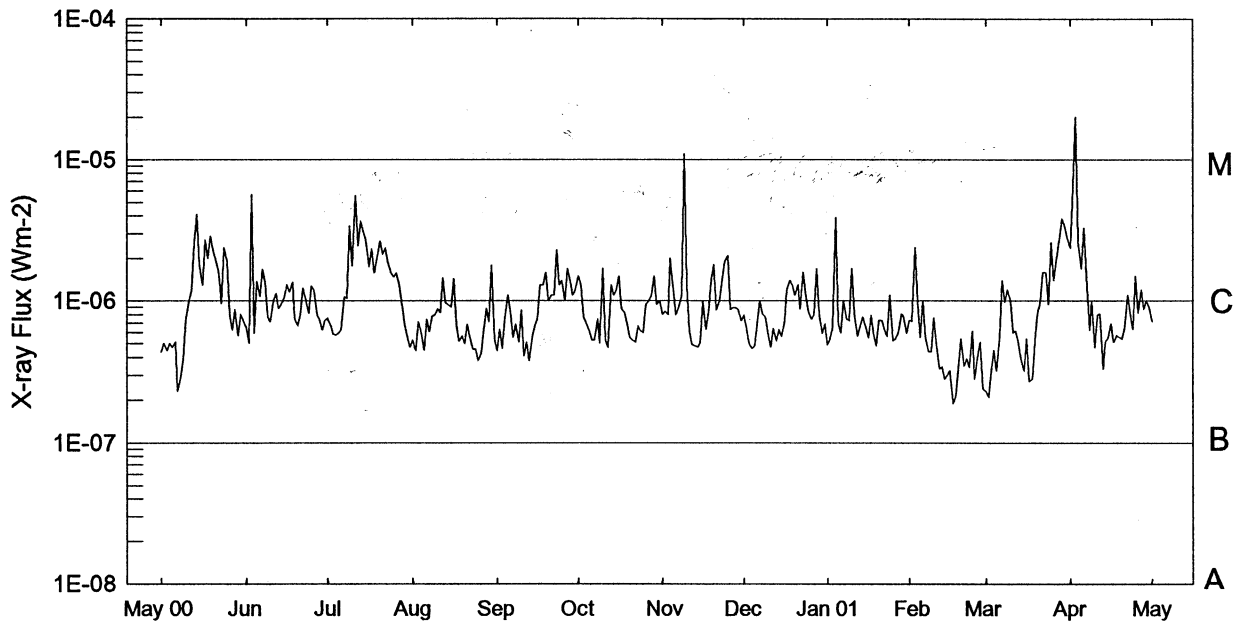
GOES S O L A R X-RAY F L A R E S
Preliminary Listing

April 2001

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
19	0438	0444	0452	N19	E72	SF	C1.3	9433	9.4E-04
19	0527	0531	0533	N16	E78	SF	C1.2	9433	3.6E-04
19	0607	0612	0616	N20	E71	SF	B8.9	9433	4.3E-04
19	1122	1135	1155				M2.0		2.5E-02
19	2145	2149	2152				B7.5		2.6E-04
20	0501	0523	0543	N16	E63	1F	M1.0	9433	1.7E-02
20	0705	0709	0712	N18	E53	SF	C1.9	9433	7.3E-04
20	0846	0850	0853	N06	E01	SF	C1.5	9432	5.2E-04
20	1253	1304	1317				C7.0		7.9E-03
20	1407	1417	1428				C4.2		4.7E-03
20	1654	1658	1701				C1.8		6.3E-04
20	1820	1832	1839				C2.2		2.2E-03
20	1905	1916	1922	N18	E66	1F	C4.0	9433	2.7E-03
20	1951	2004	2016	N15	E55	1F	M4.1	9433	4.2E-02
20	2128	2134	2140				C8.0		3.8E-03
21	0439	0448	0508				C4.8		6.6E-03
21	1659	1707	1718				C2.1		2.1E-03
21	1805	1809	1812	N15	E34	SF	C1.7	9433	6.4E-04
21	1929	1933	1936	N12	E33	SF	C1.7	9433	5.9E-04
21	2203	2207	2211	N16	E35	SF	C3.3	9433	1.1E-03
21	2233	2246	2255	N16	E47	SF	C3.6	9433	3.8E-03
22	0129	0133	0141				C1.8	9433	1.2E-03
22	0145	0148	0151	N20	E30	SF	C1.7	9433	5.5E-04
22	0511	0520	0522	N20	E40	SF	C2.8	9433	1.2E-03
22	0809	0813	0818	N20	E39	SF	C3.7	9433	1.3E-03
22	0827	0830	0833				C1.9		6.0E-04
22	0840	0846	0850				C1.8		9.9E-04
22	1011	1018	1027				C4.0		2.5E-03
22	1050	1054	1057				C1.1		4.1E-04
22	1508	1512	1514				C2.1		6.5E-04
22	1702	1707	1713	N12	E21	SF	C2.2	9433	1.3E-03
22	2037	2044	2047	N14	E18	1N	M3.2	9433	1.0E-02
22	2133	2137	2143	N17	E22	SF	C1.7	9433	8.6E-04
22	2144	2205	2217	N17	E21	SF	C3.5	9433	5.3E-03
22	2236	2241	2245	N15	E25	SF	C3.8	9433	1.7E-03
23	0119	0128	0137	N18	E18	1F	M1.0	9433	6.9E-03
23	0329	0333	0347				C1.3		1.3E-03
23	0437	0452	0500	N17	E21	SF	C4.1	9433	3.7E-03
23	0616	0652	0741				C2.2		8.1E-03
23	1006	1018	1023	N17	E12	SF	C9.1	9433	5.0E-03
23	1206	1223	1236	S14	W17	SF	C2.8	9431	4.4E-03
23	2015	2030	2043	N14	E23	2N	M4.0	9433	4.4E-02
23	2336	2340	2344	N16	E12	SF	C3.2	9433	1.1E-03
24	0015	0022	0030	N17	E03	SF	C5.3	9433	2.9E-03
24	0346	0357	0422	N18	E16	SF	C3.4	9433	5.7E-03
24	0533	0542	0547	N18	E01	1N	M2.1	9433	9.3E-03
24	0653	0700	0708	N18	E11	1F	M3.1	9433	1.7E-02
24	1216	1220	1224				C1.4		6.2E-04
24	1238	1253	1309	N19	E15	1N	M1.6	9433	2.0E-02
24	1804	1812	1817	N17	E13	1N	M2.3	9433	9.2E-03

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
24	2117	2124	2131	N18	E10	SF	C2.4	9433	1.7E-03
24	2214	2224	2230	N17	E01	1N	M1.8	9433	1.0E-02
24	2345	2355	0013	N19	E09	SF	C6.8	9433	8.2E-03
25	0215	0219	0224	N18	E07	SF	C1.5	9433	7.4E-04
25	0303	0310	0324	N17	E05	SF	C1.9	9433	2.1E-03
25	0502	0509	0519	N18	E00	SF	C7.8	9433	5.3E-03
25	0802	0840	0859	N20	E02	SF	C5.3	9433	1.2E-02
25	0934	0939	0944	N17	W16	SF	C4.0	9433	1.8E-03
25	1140	1147	1157	N19	E01	SF	C6.8	9433	4.6E-03
25	1339	1348	1359	N18	W09	2N	M2.7	9433	2.1E-02
25	1530	1603	1624	N19	E00	SF	C6.6	9433	1.8E-02
25	1825	1831	1839	N15	W09	SF	C2.4	9433	1.8E-03
25	2301	2307	2315				C1.6		1.3E-03
26	0100	0108	0116	N19	W08	SF	C3.4	9433	2.3E-03
26	0153	0200	0208	N19	W07	SF	C3.7	9433	2.5E-03
26	0958	1002	1004				C2.2		6.5E-04
26	1126	1312	1319	N17	W31	2B	M7.8	9433	9.2E-02
26	2336	2355	0005	N18	W22	SF	C4.2	9433	5.3E-03
27	0105	0116	0121	N20	W21	SF	C2.4	9433	1.9E-03
27	0328	0337	0405	N20	W22	SF	C5.0	9433	8.7E-03
27	0654	0659	0706	N15	W42	SF	C2.1	9433	1.2E-03
27	1906	1915	1935	N18	W37	1F	M1.2	9433	1.5E-02
27	2037	2042	2050	N20	W31	SF	C1.9	9433	1.3E-03
27	2258	2334	2352	N19	W34	SF	C6.2	9433	1.7E-02
28	0319	0342	0401				C2.1		4.2E-03
28	0455	0501	0506				C1.7		7.4E-04
28	0652	0700	0716	N19	W37	SF	C3.1	9433	3.4E-03
28	0911	0934	0946	N16	W42	1F	C7.0	9433	9.9E-03
28	2008	2013	2015				C2.8		8.5E-04
28	2212	2216	2220				C1.7		7.3E-04
29	0351	0354	0356	N18	W46	SF	C1.8	9433	4.5E-04
29	0823	0828	0831				C2.1		8.6E-04
29	0908	0930	0938				C3.0		4.2E-03
29	1057	1101	1107				C1.9		9.4E-04
29	1635	1639	1643				C2.0		8.5E-04
29	1725	1727	1732	N19	E63	SF	C1.4	9445	5.4E-04
29	1742	1746	1748	N23	E67	SF	C2.4	9445	6.7E-04
29	1921	1924	1926	N25	E60	SF	C2.7	9445	5.9E-04
29	2004	2046	2115				C2.6		8.4E-03
29	2323	2327	2329				C3.2		7.0E-04
30	0234	0238	0245	N22	W59	SF	C2.6	9433	1.4E-03
30	0717	0721	0723	N27	E59	SF	C5.1	9445	1.0E-03
30	1019	1023	1025	N27	E58	SF	C3.6	9445	8.0E-04
30	1055	1108	1120				C2.2		2.9E-03
30	1154	1157	1201	N18	W60	SF	C1.6	9433	5.8E-04
30	1312	1315	1319	N25	E58	SF	C1.9	9445	6.9E-04
30	1445	1448	1452				C2.1		8.0E-04
30	1518	1522	1530	N26	E55	SF	C2.5	9445	1.3E-03

Preliminary GOES Satellite Daily X-Ray Background May 2000 - Apr 2001



Day	May 00	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 01	Feb	Mar	Apr
1	B4.4	B6.4	B7.4	B5.2	B4.5	C1.5	B8.0	B8.0	B4.9	B7.3	B2.3	C2.4
2	B5.0	B5.0	B6.7	B4.4	B6.3	C1.3	B8.4	B8.4	B5.4	B7.2	B2.1	C6.5
3	B4.5	C5.6	B5.7	B7.0	B4.6	B7.7	B8.0	B8.0	B6.5	C2.4	B3.2	M2.0
4	B5.0	B5.9	B5.7	B6.0	B7.5	B7.0	C2.0	C2.0	C3.9	B9.8	B4.5	C2.6
5	B4.7	C1.3	B5.9	B4.4	C1.1	B6.1	C1.2	C1.2	B6.9	B5.5	B3.2	C1.7
6	B5.1	C1.0	B6.2	B7.4	B8.2	B5.3	B8.0	B8.0	B6.0	C1.0	B5.5	C3.3
7	B2.3	C1.6	C1.0	B6.0	B5.5	B5.3	B8.9	B8.9	C1.0	B5.5	C1.4	C1.5
8	B2.9	C1.3	C1.0	B7.7	B6.8	B7.4	C1.1	C1.1	B7.4	B4.4	B9.8	B6.2
9	B3.9	B7.7	C3.3	B7.9	B5.1	B5.0	M1.1	M1.1	B7.3	B4.4	C1.2	C1.0
10	B7.4	B7.1	C1.7	B8.7	B8.6	C1.7	C1.3	C1.3	C1.7	B7.6	C1.0	B4.7
11	C1.0	C1.0	C5.5	B8.2	B4.1	B5.3	B6.1	B6.1	B8.0	B5.0	B6.0	B7.9
12	C1.2	C1.1	C2.4	C1.4	B5.1	B4.7	B4.9	B4.9	B5.6	B3.3	B6.1	B8.1
13	C2.6	B8.8	C3.6	B9.7	B3.8	C1.3	B4.8	B4.8	B6.7	B3.4	B5.1	B3.3
14	C4.1	B9.4	C2.9	B9.3	B5.5	C1.1	B4.7	B4.7	B7.7	B2.8	B3.9	B5.1
15	C1.8	C1.0	C2.6	B9.0	B6.7	C1.2	B5.1	B5.1	B6.7	B3.0	B3.2	B5.5
16	C1.3	C1.2	C1.7	C1.4	B7.4	C1.5	B9.9	B9.9	B5.5	B3.2	B5.4	B6.9
17	C2.7	C1.1	C2.3	B6.7	C1.3	B8.8	B6.3	B6.3	B7.9	B1.9	B2.7	B5.1
18	C2.0	C1.3	C1.5	B5.1	C1.3	B8.2	B8.3	B8.3	B5.8	B2.1	B2.8	B5.7
19	C2.9	B7.4	C2.1	B5.5	C1.6	B6.8	C1.4	C1.4	B4.8	B3.3	B5.2	B5.5
20	C2.2	B6.7	C2.6	B5.0	C1.0	B5.5	C1.8	C1.8	B7.3	B5.4	B8.2	B5.4
21	C1.9	B7.9	C2.1	B6.8	C1.1	B5.3	B8.7	B8.7	B7.3	B3.5	B9.6	B6.4
22	C1.6	C1.2	C2.3	B5.5	C1.1	B5.1	C1.0	C1.0	B6.2	B3.9	C1.6	C1.1
23	B9.6	B9.9	C1.8	B4.5	C2.3	B6.6	C1.4	C1.4	B5.6	B3.4	C1.6	B8.1
24	C2.4	B8.1	C1.5	B4.5	C1.3	B6.1	C1.9	C1.9	C1.1	B6.1	B9.4	B6.3
25	C1.9	C1.2	C1.4	B3.8	C1.4	B6.0	C2.1	C2.1	B5.2	B2.8	C2.6	C1.5
26	B7.9	C1.1	C1.5	B4.3	C1.0	B9.4	B8.7	B8.7	B5.4	B4.1	C1.4	B8.2
27	B6.2	B7.9	C1.3	B5.8	C1.7	C1.0	B8.9	B8.9	B5.9	B5.1	C2.1	C1.2
28	B8.7	B7.3	B9.2	B8.8	C1.4	C1.1	B8.9	B8.9	B8.1	B2.4	C2.8	B8.8
29	B5.7	B6.2	B6.6	B7.1	C1.1	C1.5	B8.7	B8.7	B7.8		C3.8	C1.0
30	B8.0	B8.0	B5.5	C1.7	C1.2	B9.4	B7.3	B7.3	B5.9		C3.4	B9.0
31	B7.3		B4.6	B5.2		C1.0			B7.4		C2.8	

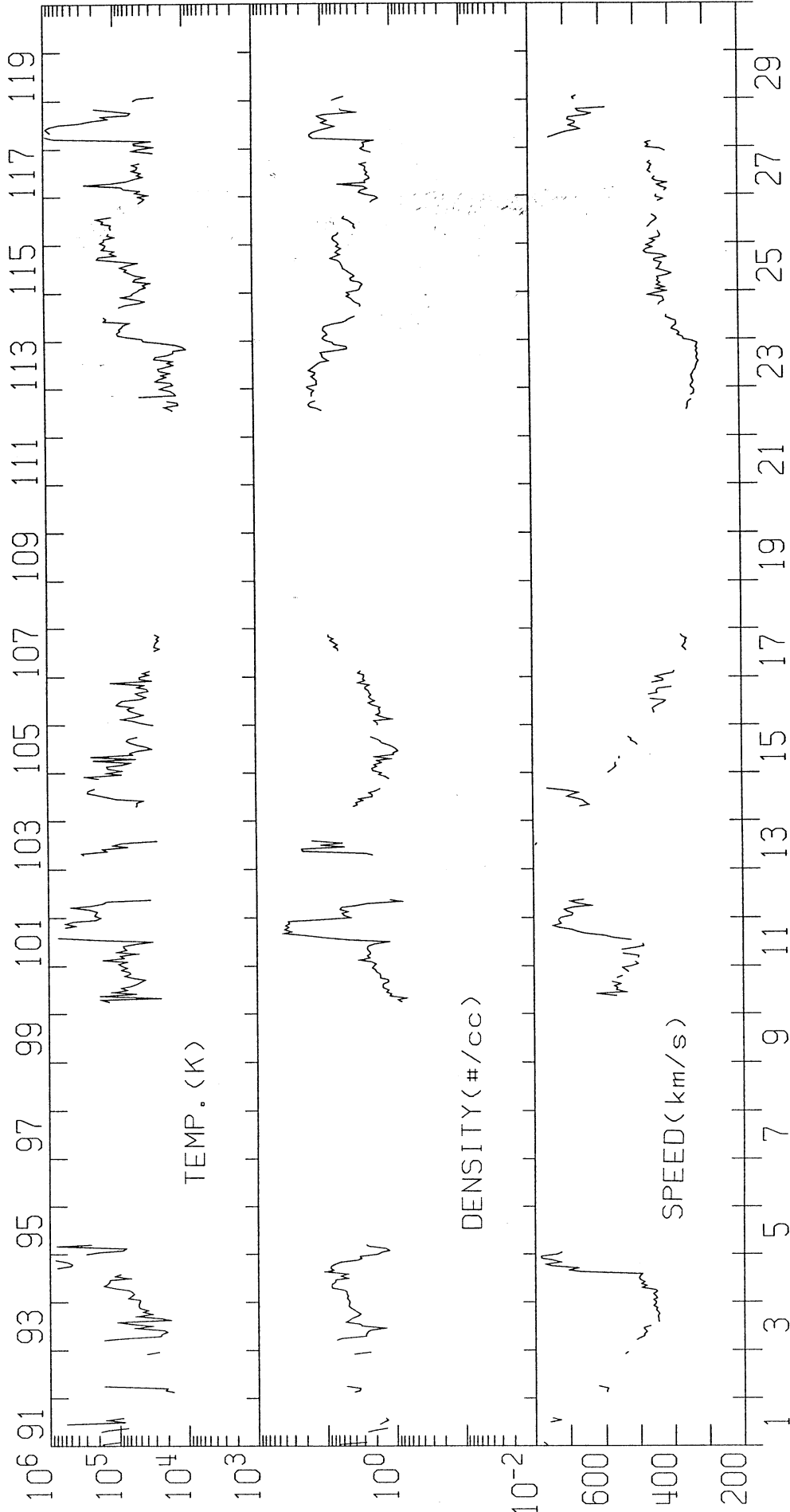
ACTIVE PROMINENCES AND FILAMENTS

APRIL 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
01	EPL	0358	0442	N14	W67	03	27.2	3		9	9	E	LEAR	9390	Flare Associated
01	LPS	1335	2020D	S25	E90	04	8.5			9	9	E	RAMY		
01	LPS	2350E	0345	S24	E90	04	8.9			9	9	E	LEAR		
02	DSF	0015U	1343U	S26	W46	03	29.5	3	09	0	0	E	HOLL		
02	LPS	0440	0505	S24	E90	04	9.1			9	9	E	LEAR		
02	DSF	0957U	2312U	S30	W44	03	30.0		11	0	0	E	LEAR		
02	LPS	1448E	1727D	N18	W65	03	28.8			0	1	E	RAMY	9393	Flare Associated
02	LPS	2312E	0914	N18	W85	03	27.6			6	6	E	LEAR	9292	Flare Associated
03	LPS	0402	0910	S20	E89	04	10.0			9	9	E	LEAR	9415	Flare Associated
03	EPL	0456	0606	S14	W90	03	27.5	3		6	9	E	LEAR		
03	LPS	0527E	1512	N17	W90	03	27.5			9	9	E	SVTO	9393	
03	EPL	0545E	0606	S15	W90	03	27.5	3		9	9	E	SVTO		
03	LPS	0555E	1710	S21	E90	04	10.1			9	9	E	SVTO	9415	
03	DSF	0939U	2325U	N32	E17	04	4.7		26	0	0	E	LEAR		
03	LPS	1125E	2021D	S24	E90	04	10.4			5	9	E	RAMY	9315	
03	DSF	1633U	0519U	N29	E15	04	4.9		14	0	0	E	SVTO		
04	DSF	0935U	2308U	N14	W08	04	3.8		12	0	0	E	LEAR	9407	
04	DSF	1552	1643	N17	W06	04	4.2	3	06	9	9	E	SVTO		
05	DSF	0044U	1711U	S39	W18	04	3.6		16	0	0	E	HOLL		
05	LPS	0418	0838	N09	W90	03	29.5			9	9	E	LEAR		
05	LPS	0535E	0745	N13	W90	03	29.5	1		9	9	E	SVTO	9393	
05	DSF	0853	0913	N21	E67	04	10.5	3	04	0	0	E	LEAR		Bright Emission 1/3
05	LPS	0913	1001	N13	W90	03	29.7			9	9	E	LEAR		
05	DSF	0948U	2325U	S40	W21	04	3.7	2	16	0	0	E	LEAR		
05	LPS	1005	1712	N15	W90	03	29.7			9	9	E	SVTO	9393	
06	DSF	0948U	2325U	S19	W51	04	2.5	2	13	0	0	E	LEAR		
06	DSF	1849U	1136U	N02	W13	04	5.8		02	0	0	E	RAMY		
07	DSF	1849U	1136U	N02	W13	04	6.8		02	0	0	E	RAMY		
10	DSF	0436	0515	N31	W02	04	10.0	3	14	9	9	E	LEAR	9415	Flare Associated
11	DSF	2110U	1124U	S02	W25	04	10.0		22	0	0	E	RAMY		
12	DSF		2142	S07	E15	04	13.1		13	0	0	E	HOLL		
12	DSF	2000	0000	S03	E02	04	13.0	2		0	0	E	HOLL		
14	DSF	0933U	2317U	N34	E16	04	15.7		15	0	0	E	LEAR		
14	BSL	1714	1732	S17	W71	04	9.3	3		0	0	E	HOLL	9415	
14	DSF	2054U	1135U	S23	W02	04	14.7		12	0	0	E	RAMY		
15	DSF	0919U	2319U	N36	E33	04	18.0		10	0	0	E	LEAR		
15	LPS	1438	1951	S22	W87	04	8.9			9	9	E	HOLL	9415	Flare Associated
15	LPS	1454	2010	S22	W90	04	8.7			7	7	E	RAMY	9415	Flare Associated
15	DSF	1629U	0515U	N34	E34	04	18.4		11	0	0	E	SVTO		
16	DSF	0917U	2330U	N16	E56	04	20.6		06	0	0	E	LEAR		
16	DSF	1629U	0515U	N34	E34	04	19.4		11	0	0	E	SVTO		
17	DSF	0928U	2322U	S37	W53	04	13.1		07	0	0	E	LEAR		
17	DSF	0928U	2322U	S45	W15	04	16.1		10	0	0	E	LEAR		
19	DSF	0924U	2311U	N13	W38	04	16.5		08	0	0	E	LEAR		
21	DSF	0008U	1314U	S15	E01	04	21.1	3	05	0	0	E	HOLL		
21	DSF	0008U	1314U	S47	E28	04	23.3	3	15	0	0	E	HOLL		
22	DSF	0832U	0049U	N24	W26	04	20.3		19	0	0	E	LEAR		
22	DSF	1236U	1445U	N26	W26	04	20.5		19	0	0	E	RAMY		
23	DSF	1200	1235	S14	W14	04	22.4	3	06	9	9	E	SVTO	9431	Flare Associated
25	DSF	1617U	1133U	N22	W22	04	24.0		14	0	0	E	RAMY	9433	
26	DSF	0741	0854	N24	W27	04	24.2	3	10	9	9	E	LEAR	9433	

IMP 8 SOLAR WIND PLASMA
APRIL 2001

MIT/CSR IMP 8 PLASMA PARAMETERS



APR 2001

IMP 8
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ONE-HOUR AVERAGES