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Number 650

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APRIL 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
						Lat	CMD	Region						Mo	Day	Time (UT)		Apparent (10-6 Disk)
0001	01	0923	0923	0934	S23	E32	8190	04	3.8	11	SF			17		F		
	SVTO	01	0921E	0925U	0932	S23	E31	8190	04	3.8	11D	SF	2	E	17		F	
	KANZ	01	0923	0923	0935	S23	E32	8190	04	3.8	12	SF	2	C				
0002	LEAR	01	0921	0923	0931	S23	E17	8190	04	2.7	10	SF	3	E		26		
0003	KANZ	01	1114	1114	1122	S25	W67	8185	03	27.4	8	SF	2	C				
0004	01	13562	13571	1410	S22	W69	8185	03	27.4	14	SF				20			
	SVTO	01	1356	1357	1429	S22	W70	8185	03	27.3	33	SF	3	E		25		
	HOLL	01	1356	1358	1400	S20	W69	8185	03	27.4	4	SF	3	E		16		
	KANZ	01	1358	1358	1402	S24	W69	8185	03	27.3	4	SF	2	C				
0005	01	1522	15308	1618	S23	E26	8190	04	3.6	56	SF				56			
	KANZ	01	1522	1530	16360	S22	E25	8190	04	3.6	74D	SF	2	C				
	HOLL	01	1522	1538	1632	S23	E25	8190	04	3.6	70	SF	3	E		76		
	RAMY	01	1528E	1532U	1603	S23	E27	8190	04	3.7	35D	SF	3	E		35		
0006	SVTO	01	1527	1547	1604	S23	E13	8190	04	2.6	37	SF	3	E		20		
0007	HOLL	01	1956	2004	2015	S23	E25	8190	04	3.7	19	SF	3	E		45		
0008	HOLL	01	2202	2210	2228	S23	E22	8190	04	3.6	26	SF	3	E		29		
0009	HOLL	01	2329	2329	2334	S23	E23	8190	04	3.7	5	SF	3	E		14		
0010	LEAR	02	0138	0140	0143	S23	E08	8190	04	2.7	5	SF	3	E		13		
0011	LEAR	02	0431	0433	0443	S23	E07	8190	04	2.7	12	SF	3	E		17		
0012	LEAR	02	0735	0737	0744	S23	E05	8190	04	2.7	9	SF	3	E		15		
0013	LEAR	02	0754	0755	0814	S23	E05	8190	04	2.7	20	SF	3	E		51		
0014	LEAR	02	0917	0919	0930	S23	E30	8191	04	4.7	13	SF	3	E		14		
		02	1014		1042	No Flare Patrol												
0015	02	1104	1106U	1151D	S24	E32	8191	04	4.9	47D	SF				48		F	
	SVTO	02	1104	1106U	1151D	S24	E31	8191	04	4.8	47D	SF	2	E		48		F
	KANZ	02	1110E	1110U	1118D	S23	E32	8191	04	4.9	8D	SF	2	C				
		02	1107		1109	No Flare Patrol												
	02	1111		1117	No Flare Patrol													
	02	1119		1151	No Flare Patrol													
	02	1204		1219	No Flare Patrol													
0016	02	1427	1428	1449	S22	E24	8191	04	4.4	22	SF				52			
	KANZ	02	1426E	1426U	1451	S22	E25	8191	04	4.5	25D	SF	2	C				
	HOLL	02	1427	1428	1447	S22	E24	8190	04	4.4	20	SF	3	E		52		
0017	HOLL	02	1643	1647	1702	S23	E23	8190	04	4.5	19	SF	3	E		29		
0018	HOLL	02	1703	1706	1712	S23	E22	8190	04	4.4	9	SF	3	E		21		
		03	0512		0530	No Flare Patrol												
0019	HOLL	03	1857	1901	1904	S20	E06	8190	04	4.2	7	SF	3	E		10		F
0020	HOLL	03	1912	1916	1929	S20	E07	8190	04	4.3	17	SF	3	E		24		F
0021	LEAR	03	2336	2347	2416	S26	E17	8191	04	5.3	40	1N	3	E		100		FH
0022	HOLL	03	2337	2349	2421	S22	E07	8190	04	4.5	44	1N	3	E		175		FH
0023	URUM	04	0116	0120	0120D	S21	E06	8191	04	4.5	4D	SN		P		16	0.2	D
0024	URUM	04	0426	0438	0457	S23	E07	8191	04	4.7	31	SN		C		32	0.3	D

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF CMD Region	CMP Mo Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0025	URUM	04	0426	0449	0457	S22 E06	8191	04	4.6	31	SF		C		48	0.5	E	
0026	URUM	04	0529	0530	0530D	S23 E05	8191	04	4.6	1D	SF		P		64	0.7	E	
0027	SVTO	04	1102	1105	1110	S22 W13	8190	04	3.5	8	SF	3	E		21		F	
0028	SVTO	04	1148	1150	1156	S23 E02	8191	04	4.6	8	SF	3	E		19			
0029	04	1344	1346	1402	S21 E46	8193	04	8.1	18	SF					21			
	RAMY	04	1342E	1344U	1409	S18 E45	8193	04	8.0	27D	SF	3	E		15			
	HOLL	04	1344	1346	1356	S24 E46	8193	04	8.1	12	SF	3	E		27			
0030	HOLL	04	1405	1406	1408	S24 E42	8193	04	7.8	3	SF	3	E		18			
0031	HOLL	04	1806	1807	1816	S23 W01	8190	04	4.7	10	SF	3	E		18		F	
0032	HOLL	04	1840	1847	1851	S23 E44	8193	04	8.2	11	SF	3	E		17		F	
0033	HOLL	04	1852	1911	1917	S23 E43	8193	04	8.1	25	SF	3	E		29			
0034	HOLL	04	1848	1849	1854	S23 W02	8190	04	4.6	6	SF	3	E		10			
0035	HOLL	04	1857	1859	1910	S19 W12	8190	04	3.9	13	SF	3	E		30			
0036	HOLL	04	1923	1928	1942	S23 E43	8193	04	8.1	19	SF	3	E		24			
0037	HOLL	04	2021	2022	2025	S23 E43	8193	04	8.2	4	SF	3	E		12			
0038	HOLL	04	2034	2037	2045	S22 W02	8190	04	4.7	11	SF	3	E		11			
0039	HOLL	04	2138	2139	2148	S22 W03	8190	04	4.7	10	SF	3	E		35			
0040	HOLL	04	2259	2307	2320	S23 E42	8193	04	8.2	21	SF	3	E		40			
0041	HOLL	04	2332	2336	2339	S23 E41	8193	04	8.1	7	SF	3	E		19			
			05 0121		0243	No Flare Patrol												
			05 0301		0426	No Flare Patrol												
0042	URUM	05	0437	0441	0459	S22 E37	8193	04	8.0	22	1N		C		177	2.3	E	
			05 0512		0630	No Flare Patrol												
0043	05	1150	1151	1157	S21 E34	8193	04	8.1	7	SF					20			
	RAMY	05	1150	1151	1157	S20 E35	8193	04	8.2	7	SF	3	E		21			
	SVTO	05	1150	1151	1157	S22 E34	8193	04	8.1	7	SF	3	E		20			
0044	RAMY	05	1339	1339	1351	S22 E33	8193	04	8.1	12	SF	3	E		10			
0045	HOLL	05	1632	1634	1644	S20 E84	8194	04	12.1	12	SF	3	E		50		F	
0046	HOLL	05	1742	1742	1753	S20 E83	8194	04	12.1	11	SF	3	E		25			
0047	HOLL	05	1759	1801	1803	S19 E86	8194	04	12.3	4	SF	3	E		19			
0048	HOLL	05	1950	1951	1956	S20 E68	8194	04	11.0	6	SF	3	E		25			
0049	URUM	06	0255	0302	0317	S22 E23	8193	04	7.9	22	SF		C		16	0.2	D	
			06 1310		1331	No Flare Patrol												
			06 1537		1547	No Flare Patrol												
0050	06	1629I	1634	1707	S28 E76	8195	04	12.6	38	2F					210			
	RAMY	06	1629	1641U	1658D	S27 E75	8195	04	12.5	29D	1F	3	E		133		FH	
	HOLL	06	1630	1634	1707	S30 E78	8195	04	12.8	37	2F	3	E		286		H F	
0051	06	1715Z	1720I	1741	S17 E63	8194	04	11.5	26	SF					39			
	HOLL	06	1715	1720	1748	S18 E64	8194	04	11.6	33	SF	3	E		51			
	RAMY	06	1717	1721	1734	S16 E62	8194	04	11.4	17	SF	3	E		27			

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APRIL 1998

Grp #	Sta	Start Day (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)		
0052		06 1842	1842	1853	S27	E68	8195	04 12.1	11	SF					16			
	HOLL	06 1842	1842	1853	S29	E68	8195	04 12.1	11	SF		3	E		14			
	RAMY	06 1842E	1842U	1853D	S25	E68	8195	04 12.0	11D	SF		3	E		19			
		07 0202		0630	No Flare Patrol													
		07 0640		0734	No Flare Patrol													
		07 1456		1500	No Flare Patrol													
		08 0120		0905	No Flare Patrol													
		08 0907		0930	No Flare Patrol													
0053	KANZ	08 0931E	0931U	0931D	S27	E71	8198	04 13.9	11D	SF		2	C					
		08 0932		0937	No Flare Patrol													
0054	KANZ	08 1003	1003	1007	S27	E71	8198	04 13.9	4	SF		2	C					
		08 1016		1107	No Flare Patrol													
		08 1113		1305	No Flare Patrol													
0055	HOLL	08 1741	1743	1748	S33	E65	8198	04 13.9	7	SF		3	E		28			
0056	HOLL	08 1802	1802	1804	S25	E42	8194	04 12.0	2	SF		3	E		27			
0057	HOLL	08 1929	1936	1948	S30	E38	8195	04 11.8	19	SF		3	E		23			
0058	HOLL	08 1929	1936	2005	S24	E44	8194	04 12.2	36	SF		3	E		73			
0059	HOLL	08 1949	1950	2007	S30	E38	8195	04 11.8	18	SF		3	E		14			
0060	HOLL	08 2011	2013	2021	S30	E38	8195	04 11.8	10	SF		3	E		14			
0061	HOLL	08 2013	2017	2021	S21	E36	8194	04 11.6	8	SF		3	E		18			
0062	HOLL	08 2136	2136	2149	S24	E43	8194	04 12.2	13	1F		3	E		134		EU	
0063	HOLL	08 2241	2245	2248	S31	E61	8198	04 13.7	7	SF		3	E		24			
0064	HOLL	08 2252	2254	2259	S31	E61	8198	04 13.8	7	SF		3	E		11			
0065	HOLL	08 2353	2354	2402	S31	E60	8198	04 13.7	9	SF		3	E		12			
0066	HOLL	09 0005	0005	0010	S31	E60	8198	04 13.7	5	SF		3	E		10			
0067	HOLL	09 0022	0024	0033	S30	E36	8195	04 11.8	11	SF		3	E		31			
		09 0120		0445	No Flare Patrol													
0068	URUM	09 0446	0451	0458	S29	E55	8198	04 13.5	12	SF			C		80	1.5	E	
0069	URUM	09 0548	0556	0600	S22	E39	8195	04 12.2	12	SF			C		48	0.7	E	
		09 0601		0806	No Flare Patrol													
		09 0827		0855	No Flare Patrol													
		09 0911		0923	No Flare Patrol													
		09 0943		1030	No Flare Patrol													
0070	HOLL	09 1708	1713	1724	S22	E08	8200	04 10.3	16	SF		3	E		14			
0071	HOLL	09 1740	1742	1746	S22	E08	8200	04 10.3	6	SF		3	E		13			
0072	HOLL	09 1802	1804	1808	S22	E08	8200	04 10.4	6	SF		3	E		25			
0073	RAMY	09 1814	1815	1821	S29	E47	8198	04 13.4	7	SF		3	E		41		F	
0074		09 19371	19411	1952	S22	E06	8200	04 10.3	15	SF					36			
	HOLL	09 1937	1942	1955	S22	E05	8200	04 10.2	18	SF		3	E		48			
	RAMY	09 1938	1941	1950	S23	E07	8200	04 10.3	12	SF		3	E		25			
0075	HOLL	09 2155	2155	2200	S30	E44	8198	04 13.4	5	SF		3	E		17			

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APRIL 1998

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
							Region	Day							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0097		14 2138	21391	2146	S30	W20	8198	04	13.3	8	SF					41		
	HOLL	14 2138	2139	2145	S30	W20	8198	04	13.3	7	SF		3	E		29		
	RAMY	14 2138	2140	2148	S30	W19	8198	04	13.4	10	SF		3	E		53		
		15 0124		0329	No Flare Patrol													
0098	SVTO	15 0721	0722	0730	N29	W15	8203	04	14.1	9	SF		3	E		15		
0099	SVTO	15 0739	0745	0806	N29	W15	8203	04	14.1	27	SN		3	E		81		
0100	URUM	15 0844E	0844	0907	N31	W15	8203	04	14.2	23D	SN			P		96	1.3	E
0101	URUM	15 0912	0915	0919	N31	W16	8203	04	14.1	7	SN			C		32	0.4	D
0102	SVTO	15 1201	1223	1245	N27	W19	8203	04	14.0	44	SF		3	E		75		
0103	RAMY	15 1419	1419	1434	S30	W25	8198	04	13.6	15	SF		3	E		10		H
0104		15 15027	15064	1514	N29	W20	8203	04	14.0	12	SF					33		
	RAMY	15 1502	1506	1515	N31	W19	8203	04	14.1	13	SF		3	E		44		
	SVTO	15 1509	1510	1514	N27	W20	8203	04	14.1	5	SF		3	E		22		
0105		15 15054	15111	1552	S30	W32	8198	04	13.1	47	1F					152		F
	RAMY	15 1505	1511	1555	S28	W32	8198	04	13.1	50	1F		3	E		199		
	SVTO	15 1509	1512	1550	S32	W33	8198	04	13.0	41	1F		3	E		104		F
		16 0023		0039	No Flare Patrol													
0106	URUM	16 0109E	0109	0125	N30	W25	8203	04	14.1	16D	SB			P		32	0.5	D
0107	LEAR	16 0222	0222	0228	S22	W24	8202	04	14.2	6	SF		3	E		23		
		16 0314		0547	No Flare Patrol													
		16 0646		0708	No Flare Patrol													
		16 0954		1233	No Flare Patrol													
		16 1247		1801	No Flare Patrol													
		17 0215		0220	No Flare Patrol													
		17 0428		0502	No Flare Patrol													
		17 0526		0559	No Flare Patrol													
		17 0719		0749	No Flare Patrol													
		17 2054		2055	No Flare Patrol													
		18 0127		0315	No Flare Patrol													
0108	URUM	18 0356	0404	0411	N19	W03	8205	04	17.9	15	SN			C		48	0.5	D
		18 0451		0459	No Flare Patrol													
		18 0941		1035	No Flare Patrol													
		18 1046		1209	No Flare Patrol													
		18 1225		1236	No Flare Patrol													
		19 0128		0438	No Flare Patrol													
		19 0507		0530	No Flare Patrol													
		19 0638		0643	No Flare Patrol													
		19 0911		0920	No Flare Patrol													
0109	SVTO	19 1302	1305U	1319	N21	W17	8205	04	18.2	17	SF		3	E		26		
0110	SVTO	19 1412	1420U	1429D	N21	W18	8205	04	18.2	17D	SF		3	E		25		F
0111	RAMY	19 1635	1636	1641	N19	W19	8205	04	18.2	6	SF		4	E		14		
		20 0129		0439	No Flare Patrol													
		20 0450		0458	No Flare Patrol													
		21 0113		0118	No Flare Patrol													
		21 0134		0140	No Flare Patrol													
		21 0150		0205	No Flare Patrol													
0112	KANZ	21 1000	1004	1008	N23	W42	8205	04	18.2	8	SF		2	C				
0113	HOLL	21 2324	2324	2329	N03	W50	8205	04	18.2	5	SF		3	E		20		FH

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APRIL 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
0114	HOLL	22	1341	1343	1346	N22	W65	8205	04	17.6	5	SF	3	E		12		
0115		22	13426	1351	1359	N20	W61	8205	04	17.9	17	SF				24		
	SVTO	22	1342	1351	1359	N19	W59	8205	04	18.1	17	SF	3	E		16		
	HOLL	22	1348	1351	1359	N22	W63	8205	04	17.7	11	SF	3	E		31		
0116	HOLL	22	1606	1609	1617	N22	W67	8205	04	17.5	11	SF	3	E		33		
0117	HOLL	22	1843	1843	1849	N22	W69	8205	04	17.5	6	SF	3	E		13		
0118	HOLL	22	1904	1907	1915	N22	W69	8205	04	17.5	11	SF	3	E		22		
0119	HOLL	22	2244	2245	2250	N23	W70	8205	04	17.5	6	SF	3	E		36		
0120	HOLL	22	2255	2256	2301	N23	W70	8205	04	17.6	6	SF	3	E		21		
0121	URUM	23	0214E	0214	0219	N19	W66	8205	04	18.0	5D	SN		P		80		EG
		23	0929		1002	No Flare Patrol												
		23	1014		1029	No Flare Patrol												
		23	2150		2229	No Flare Patrol												
		25	0712		0714	No Flare Patrol												
		25	0716		0723	No Flare Patrol												
		25	0733		0753	No Flare Patrol												
		25	0759		0805	No Flare Patrol												
		25	0807		0811	No Flare Patrol												
		25	0817		0819	No Flare Patrol												
0122	KHAR	25	1005E		1016	S16	E78	8210	05	1.3	11D	1N	2	P	1005	300		Z
0123	KHAR	25	1103	1104	1109	S15	E78	8210	05	1.4	6	SF	2	P				DH
0124	KHAR	25	1115	1121	1142D	S16	E77	8210	05	1.3	27D	1N	2	P	1125	350		HOZ
0125	KHAR	25	1126	1130U	1141	S23	W25	8209	04	23.6	15	SN	2	P	1126	110	1.3	EHO
		25	1143		1217	No Flare Patrol												
0126	KANZ	25	1414	1422	1532	S15	E70	8210	04	30.9	78	SF	2	C				
0127		25	1422*	15143	1546	S20	E72	8210	05	1.1	84	SF				32		F
	SVTO	25	1422	1514	1557	S19	E73	8210	05	1.2	95	SF	3	E		51		F
	HOLL	25	1517	1517	1535	S20	E72	8210	05	1.1	18	SF	3	E		13		
0128	HOLL	25	1541	1541	1549	S21	E72	8210	05	1.2	8	SF	3	E		14		
0129	HOLL	25	1801	1816	1835	S18	E72	8210	05	1.2	34	1F	3	E		242		H
		25	2117		2132	No Flare Patrol												
		25	2319		2321	No Flare Patrol												
0130	SVTO	26	0613	0613	0618	S14	E68	8210	05	1.4	5	SF	3	E		13		
		26	1709		1726	No Flare Patrol												
		26	1748		1806	No Flare Patrol												
		26	1844		1845	No Flare Patrol												
		26	1933		1944	No Flare Patrol												
		26	2032		2045	No Flare Patrol												
		26	2221		2231	No Flare Patrol												
		26	2240		2245	No Flare Patrol												
		26	2300		2308	No Flare Patrol												
0131		27	08366	09101	1200	S17	E50	8210	05	1.1	204	2B				545	11.4	FUXZ
	SVTO	27	0836	0911	1234	S16	E50	8210	05	1.1	238	2B	3	E		462		ZU
	LEAR	27	0842	0910	0950D	S19	E50	8210	05	1.2	68D	2B	3	E		422		UF
	KHAR	27	0905E	0911	1125	S15	E50	8210	05	1.2	140D	2B	2	V	0942	750	11.4	UXZ
0132	RAMY	27	1209E	1209U	1250	S17	E46	8210	05	1.0	41D	SF	3	E		19		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Area Measurement	Remarks
								USAF Region						
0133		27	1318*	1423*	1456	S18	E44	8210	04	30.9	98	SF	24	FU
	HOLL	27	1318	1423	1455	S18	E45	8210	05	1.0	97	SF	32	UF
	SVTO	27	1451	1454	1456	S17	E43	8210	04	30.9	5	SF	16	
		27	1920		1931									No Flare Patrol
		27	2019		2131									No Flare Patrol
		27	2139		2211									No Flare Patrol
		27	2236		2309									No Flare Patrol
		28	0948		0959									No Flare Patrol
0134	HOLL	28	1523	1534	1538	S27	W62	8212	04	23.8	15	SF	23	F
0135	HOLL	28	1601	1601	1610	S18	E32	8210	05	1.1	9	SF	15	F
0136	HOLL	28	1801	1807	1808	S21	E33	8210	05	1.3	7	SF	22	F
0137	HOLL	28	1837	1839	1841	S17	E35	8210	05	1.4	4	SF	27	H
0138	HOLL	28	1911	1913	1915	S25	E25	8210	04	30.7	4	SF	23	F
0139		28	2031	20337	2046	S16	E35	8210	05	1.5	15	SF	30	F
	RAMY	28	2031	2033	2047	S15	E35	8210	05	1.5	16	SF	21	F
	HOLL	28	2039E	2040	2045	S16	E35	8210	05	1.5	60	SF	40	F
0140	HOLL	28	2123	2124	2129	S17	E31	8210	05	1.2	6	SF	18	F
		28	2253		2319									No Flare Patrol
0141		28	2341	2345	2358	S16	E32	8210	05	1.4	17	SF	52	H
	HOLL	28	2304E	2331U	2353D	S15	E33	8210	05	1.4	49D	SF	36	
	LEAR	28	2341	2345	2358	S17	E32	8210	05	1.4	17	SF	68	H
0142	LEAR	29	0138	0143	0203	S19	E27	8210	05	1.1	25	1F	147	UZ
		29	0221		0229									No Flare Patrol
		29	0314		0321									No Flare Patrol
		29	0352		0358									No Flare Patrol
0143	LEAR	29	0514	0519	0527	S17	E29	8210	05	1.4	13	SF	72	FH
0144	SVTO	29	0515E	0516U	0534D	S17	E22	8210	04	30.9	190	SF	26	F
0145		29	0539	0540	0548	S18	E24	8210	05	1.1	9	SF	34	F
	LEAR	29	0539	0540	0548	S19	E24	8210	05	1.1	9	SF	50	F
	SVTO	29	0541E	0543U	0549D	S18	E24	8210	05	1.1	80	SF	17	
0146	SVTO	29	0701	0702	0718	S20	E24	8210	05	1.1	17	SF	13	
0147	SVTO	29	0725	0726	0740	S17	E21	8210	04	30.9	15	SF	14	
0148	SVTO	29	0745	0818	0907	S17	E23	8210	05	1.1	82	1F	165	F
0149	LEAR	29	0758	0804	0825	S18	E24	8210	05	1.1	27	SF	65	F
0150		29	13422	13436	1354	S16	E20	8210	05	1.1	12	SF	16	
	RAMY	29	1342	1344	1351	S16	E20	8210	05	1.1	9	SF	10	
	SVTO	29	1343	1343	1354	S16	E21	8210	05	1.2	11	SF	18	
	HOLL	29	1344	1349	1356	S16	E20	8210	05	1.1	12	SF	21	
0151		29	16056	16305	2104	S16	E22	8210	05	1.3	299	3B	776	FTUZ
	HOLL	29	1605	1630	2023	S18	E20	8210	05	1.2	258	3B	901	ZU
	RAMY	29	1611	1635	2145	S14	E23	8210	05	1.4	334	3B	651	ZFT
0152	SVTO	29	1707E	1707U	1717D	S18	E20	8210	05	1.2	100	2N	403	FU
0153	RAMY	29	2147	2148	2214	S14	E14	8210	05	1.0	27	SF	13	
		29	2157		2159									No Flare Patrol
		29	2205		2213									No Flare Patrol
		29	2240		2400									No Flare Patrol

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0154	HOLL	30	1952	1955	2003	N25	E51	8214	05	4.8	11	SF	3	E		13		
0155	HOLL	30	2040	2040	2055	N24	E50	8214	05	4.7	15	SF	3	E		29		
0156		30	20563	21002	2106	N24	E48	8214	05	4.6	10	SF				19		
	HOLL	30	2056	2100	2106	N24	E48	8214	05	4.6	10	SF	3	E		19		
	RAMY	30	2059	2102	2136D	N25	E47	8214	05	4.5	37D	SF	3	E		19		
0157	HOLL	30	2107	2136	2140	N24	E49	8214	05	4.7	33	SF	3	E		23		
0158		30	2118*	2122*	2221	S21	E02	8210	05	1.0	63	2N				204		EF
	HOLL	30	2118	2122	2221	S21	E03	8210	05	1.1	63	2N	3	E		297		FE
	RAMY	30	2136	2137	2220D	S21	E02	8210	05	1.0	44D	1F	3	E		112		F
0159	HOLL	30	2144	2205	2302	N24	E49	8214	05	4.7	78	SF	3	E		55		
0160	HOLL	30	2300	2313	2319	S18	E01	8210	05	1.0	19	SF	3	E		10		
0161		30	2302*	2323*	2358	N24	E47	8214	05	4.6	56	SF				36		F
	HOLL	30	2302	2323	2359	N25	E47	8214	05	4.6	57	SF	3	E		51		
	LEAR	30	2349	2349	2358	N22	E47	8214	05	4.6	9	SF	3	E		20		F

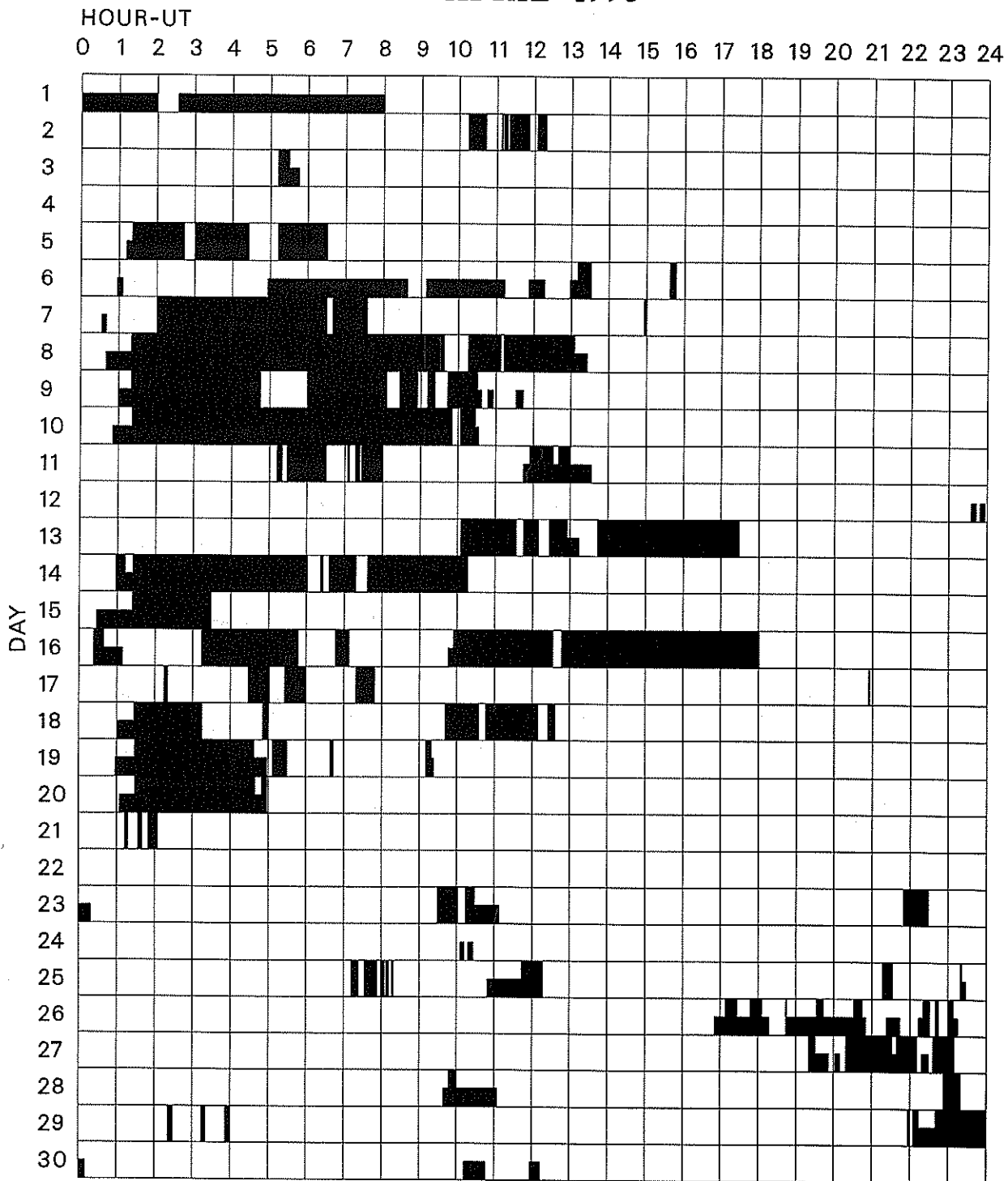
"Remarks"

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

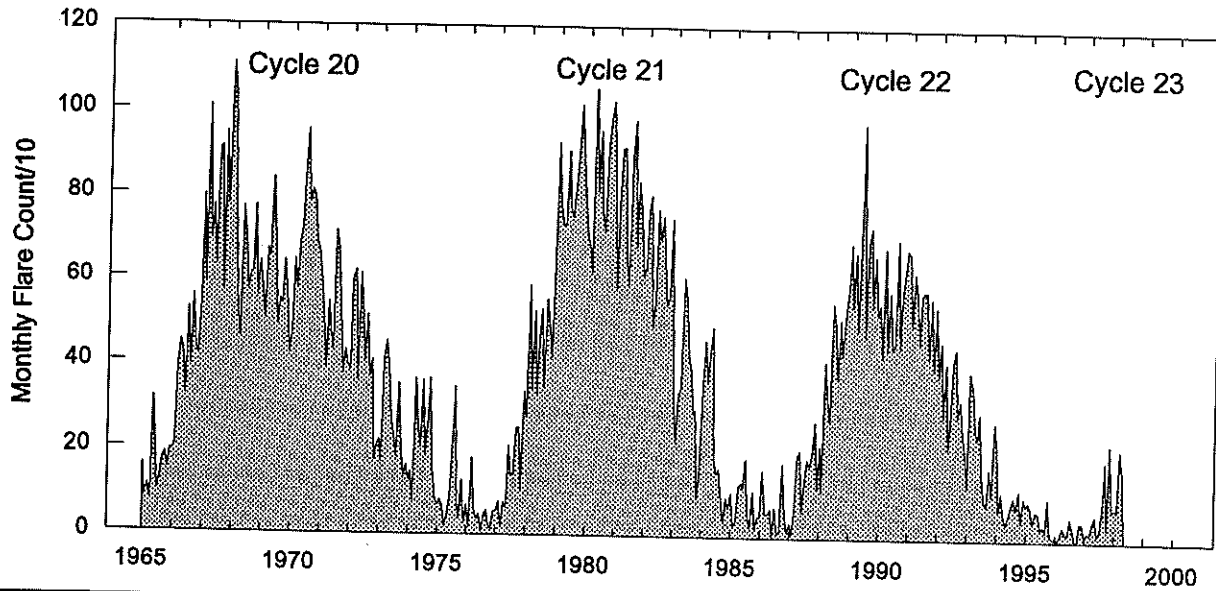
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Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic); portions of a panel with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

- | | | | | |
|-----------|-------------|-----------|----------|--------|
| Holloman | Kanzelhoehe | Learmonth | Ramey | Urumqi |
| Hurbanovo | Kharkov | | San Vito | |

Monthly Counts of Grouped Solar Flares Jan 1965 - Apr 1998



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									531

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

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

APRIL 1998

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	204	IZMI	43 NS	0600.0		36.0D		25.0		
	127	TORN	44 NS	0620.0E		520.0D		15.0		V=2
	245	SGMR	43 NS	1246.0	1347.0		83.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1313.0E		377.0D		18.0		
		RKU	1 S	0346.0	0346.8	3.0	2.0		U	
	2840	PEKG	1 S	0622.0	0623.6	6.0	6.9		6.8	
	500	HIRA	8 S	0623.4	0623.5	0.2	430.0			0
	2800	HIRA	8 S	0623.4	0623.5	0.2	4.0			0
	2950	GORK	1 S	0623.4	0623.7	0.9	5.1			
	600	GORK	2 S/F	0623.5	0623.6	0.4	5.4			
	3000	IZMI	1 S	0623.5	0623.9	0.9	5.0		3.0	
	5730	IRKU	7 C	0653.0	0653.7	2.6	3.0		U	
	600	GORK	2 S/F	0916.1	0916.3	0.5	3.5			
	5730	IRKU	7 C	0918.0	0921.7	15.5	11.0		U	
	9100	GORK	2 S/F	0918.3	0919.0	3.2	22.0			
	3000	IZMI	21 GRF	0918.6		28.1			3.0	
	2950	GORK	5 S	0921.4	0921.8	3.2	7.2			
	3000	IZMI	7 C	0921.7	0921.9	1.3	6.0			
	3000	IZMI	20 GRF	0949.6	0950.9	68.2	13.0			
	245	SGMR	8 S	1237.0	1238.0	1.0	61.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1355.0	1356.0	2.0	18.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1355.0	1356.0	2.0	290.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1356.0	1356.0	1.0	640.0			QL=4 ST=2 TYP=6
	2695	SGMR	8 S	1356.0	1356.0	1.0	56.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1356.0	1356.0	1.0	54.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1356.0	1356.0	1.0	390.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1356.0	1356.0	1.0	670.0			QL=4 ST=2 TYP=6
	1415	SVTO	8 S	1356.0	1356.0	1.0	33.0			QL=4 ST=2 TYP=3
	280	CUBA	6 S	1356.7	1356.8	0.2	66.0			
	245	SGMR	4 S/F	1539.0	1542.0	4.0	140.0			QL=4 ST=3 TYP=3
610	SGMR	4 S/F	1539.0	1543.0	14.0	250.0			QL=4 ST=3 TYP=3	
610	SVTO	4 S/F	1540.0	1543.0	7.0	190.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	1542.0	1542.0		100.0			QL=4 ST=3 TYP=3	
245	SGMR	8 S	1608.0	1608.0		94.0			QL=4 ST=2 TYP=3	
02	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	235	CUBA	44 NS	1300.0E		530.0D		9.0		
	2840	PEKG	5 S	0501.0	0502.2	10.0	8.0		7.7	
	2800	HIRA	8 S	0502.1	0502.2	0.2	4.0			0
	500	HIRA	8 S	0502.1	0502.2	0.2	100.0			WL
	600	GORK	2 S/F	0512.9	0513.3	0.7	3.1			
	2950	GORK	5 S	0520.8	0522.8	4.3	4.7			
	5730	IRKU	21 GRF	0753.4	0754.7	13.6	7.0		U	
	2950	GORK	2 S/F	0754.0	0754.7	1.7	10.5			
	9100	GORK	1 S	0754.5	0754.7	0.9	8.9			
	610	SGMR	8 S	1614.0	1614.0	1.0	46.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1614.0	1615.0	1.0	18.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	1614.0	1614.0	3.0	3800.0			QL=4 ST=2 TYP=6
410	SVTO	49 GB	1614.0	1614.0	2.0	2900.0			QL=4 ST=2 TYP=6	
03	204	IZMI	43 NS	0600.0		360.0D		15.0		
	127	TORN	43 NS	1000.0		160.0U		4.0		V=2
	280	CUBA	44 NS	1400.0E		470.0D		16.0		
	235	CUBA	44 NS	1400.0E		470.0D		12.0		
	410	LEAR	8 S	0832.0	0833.0	2.0	21.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0832.0	0833.0	2.0	71.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0832.2	0833.8	27.0	800.0			
	610	LEAR	8 S	0833.0	0833.0	1.0	12.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0833.0	0833.0	1.0	88.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0833.3	0834.2	1.2	650.0			MR
	500	HIRA	8 S	0833.5	0833.6	0.2	7.0			0
	2800	PENT	40 F	2330.0	2346.0	129.0D	37.0			
	2840	PEKG	46 C	2333.0	2347.0	24.0	43.0		40.9	
	2804	VORO	21 GRF	2335.0	2345.0	72.0	4.0			
	200	HIRA	46 C	2339.2	2340.5	10.5	40.0		5.0	
	500	HIRA	46 C	2339.2	2343.6	11.0	16.0		3.0	
	245	PALE	8 S	2340.0	2340.0		52.0			U
2804	VORO	46 C	2342.5	2346.4	8.8	27.0				
245	LEAR	4 S/F	2343.0	2345.0	4.0	51.0				

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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 (2 Hz)		
03	410	PALE	8 S	2343.0	2344.0	2.0	43.0			
	245	PALE	4 S/F	2343.0	2345.0	4.0	83.0			QL=4 ST=2 TYP=3
	2800	HIRA	45 C	2343.2	2346.2	8.0	25.0	7.0		QL=2 ST=2 TYP=3
	410	LEAR	8 S	2344.0	2344.0		26.0			WL
	4995	LEAR	4 S/F	2346.0	2348.0	3.0	30.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	2346.0	2346.0	3.0	34.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2346.0	2348.0	4.0	36.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2346.0	2346.0	3.0	40.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2347.0	2348.0	3.0	30.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	2348.0	2349.0	1.0	23.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	2349.0	2349.0		22.0			QL=4 ST=2 TYP=3
04	204	IZMI	44 NS	0600.0E		360.00		10.0		
	127	TORN	43 NS	0848.0		324.0		5.0		V=1
	2840	PEKG	5 S	0110.0	0110.6	2.0	42.9	40.9		
	500	HIRA	42 SER	0530.0	0530.5	0.6	12.0			0
	3000	IZMI	20 GRF	0737.5	0744.4	20.0U	8.0	4.0		
	5730	IRKU	21 GRF	0740.0	0749.7	125.0D	6.0			U
	33	UPIC	45 C	1141.0	1141.5	2.0				
	33	UPIC	45 C	1335.2	1335.6	2.6				
	410	SVTO	4 S/F	1443.0	1445.0	3.0	42.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1444.0	1445.0	1.0	27.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1445.0	1445.0		67.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1445.0	1445.0	1.0	60.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	2135.0	2136.0	2.0	57.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2135.0	2136.0	1.0	20.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2135.0	2136.0	2.0	7.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2135.0	2136.0	2.0	31.0			QL=4 ST=2 TYP=3
	500	HIRA	1 S	2135.7	2135.9	1.2	8.0	2.0		WR
05	204	IZMI	44 NS	0615.0E		345.0D		30.0		
	280	CUBA	44 NS	1300.0E		530.0D		20.0		
	235	CUBA	44 NS	1300.0E		530.0D		13.0		
	245	SGMR	43 NS	2050.0	2114.0	24.0	120.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	2150.0	2114.0	1404.0	120.0			QL=4 ST=2 TYP=1
	5730	IRKU	2 S/F	0439.0	0439.7	1.0	2.0			U
	245	SVTO	8 S	0651.0	0651.0	1.0	70.0			QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0651.6	0651.7	1.0	3.0			0
	204	IZMI	41 F	0651.7	0652.1	1.4	733.0			
	245	LEAR	49 GB	0722.0	0722.0	1.0	1200.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	0722.0	0722.0	1.0	1700.0			QL=4 ST=2 TYP=6
	204	IZMI	45 C	0722.7	0722.8	0.4	13900.0			
	500	HIRA	8 S	0722.9	0723.0	0.2	6.0			0
	410	LEAR	8 S	0807.0	0807.0		75.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0807.0	0807.0		240.0			QL=4 ST=3 TYP=3
	2950	GORK	20 GRF	0807.6	0815.8	8.2	6.3			
	3000	IZMI	20 GRF	0808.1	0811.0	15.3	6.0	3.0		
	410	LEAR	8 S	0848.0	0849.0	2.0	170.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0848.0	0849.0	1.0	360.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0849.0	0849.0		290.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	0849.0	0849.0		230.0			QL=4 ST=3 TYP=3
	204	IZMI	42 SER	0849.3	0849.4	0.6	690.0			
	5730	IRKU	1 S	0904.7	0907.5	6.0	4.0			U
	245	LEAR	8 S	0905.0	0906.0	2.0	310.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0905.0	0906.0	1.0	400.0			QL=4 ST=3 TYP=3
	204	IZMI	41 F	0905.6	0906.3	1.4	214.0			
	127	TORN	40 F	0946.0	1009.5	31.0	34.0	1.0		
	33	UPIC	4 S/F	0954.5	0955.0	1.4				
	33	UPIC	45 C	1014.5	1014.9	2.5				
	245	SGMR	8 S	1102.0	1102.0	1.0	230.0			QL=2 ST=3 TYP=3
	204	IZMI	41 F	1102.7	1102.9	0.8	795.0			
4995	SGMR	8 S	1305.0	1305.0	2.0	54.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1408.0	1408.0		59.0			QL=4 ST=2 TYP=3	
1415	SGMR	4 S/F	1631.0	1633.0	5.0	160.0			QL=4 ST=2 TYP=3	
1415	SVTO	4 S/F	1631.0	1633.0	6.0	160.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1650.0	1650.0	1.0	66.0			QL=4 ST=3 TYP=3	
245	SGMR	8 S	1711.0	1712.0	2.0	100.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1712.0	1712.0	1.0	8.0			QL=4 ST=2 TYP=3	
235	CUBA	6 S	1715.3	1715.5	1.0	106.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ~22 W/m ² Hz)	Mean		
05	245	SGMR	8 S	2038.0	2038.0	U	43.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2114.0	2114.0	U	74.0			QL=4 ST=2 TYP=3
	2800	PENT	41 F	2140.0	2158.0	25.0	6.0			
	2804	VORO	20 GRF	2245.0	2253.5	44.0	4.7			
06	204	IZMI	44 NS	0606.0E		354.0D		10.0		
	235	CUBA	44 NS	1300.0E		530.0D		9.0		
	280	CUBA	44 NS	1300.0E		530.0D		16.0		
	245	SGMR	43 NS	2214.0	2230.0	17.0	160.0			QL=2 ST=2 TYP=1
	245	PALE	43 NS	2226.0	2227.0	71.0	190.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2325.0	0113.0	301.0	140.0			QL=4 ST=2 TYP=1
	2840	PEKG	1 S	0033.0	0037.0	5.0	2.7	2.1		
	5730	IRKU	4 S/F	0226.3	0227.4	21.7	5.0	U		
	5730	IRKU	1 S	0255.9	0257.3	4.1	2.0	U		
	2804	VORO	8 S	0326.7	0326.8	0.2	6.0			
	410	SVTO	8 S	0600.0	0601.0	1.0	62.0			QL=4 ST=2 TYP=3
	204	IZMI	25 R	0627.5		135.4		40.0		
	5730	IRKU	7 C	0653.7	0656.2	68.3	15.0	U		
	3000	IZMI	20 GRF	0653.8	0656.3	70.0D	20.0			
	2800	HIRA	3 S	0654.7	0656.2	4.0	11.0	3.0		0
	2700	PURP	4 S/F	0658.0	0705.0	7.0	30.0			
	33	UPIC	45 C	0759.0	0759.9	2.2				
	245	SGMR	8 S	1453.0	1454.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1453.0	1454.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1528.0	1528.0	U	89.0			QL=4 ST=2 TYP=3
245	SVTO	8 S	1528.0	1528.0	U	75.0			QL=4 ST=2 TYP=3	
2800	PENT	1 S	1835.0	1837.0	45.0	6.0				
500	HIRA	27 RF	2200.0	2300.0	120.0	10.0	3.0		WL	
245	PALE	8 S	2213.0	2214.0	1.0	57.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	2258.0	2259.0	1.0	65.0			QL=2 ST=2 TYP=3	
07	245	PALE	43 NS	0023.0	0113.0	52.0	160.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0509.0	0511.0	51.0	120.0			QL=2 ST=2 TYP=1
	245	LEAR	43 NS	0509.0	0511.0	96.0	94.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		10.0		
	127	TORN	43 NS	0944.0		310.0		14.0		V=2
	245	SGMR	43 NS	1205.0	1206.0	50.0	85.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1206.0	1231.0	49.0	220.0			QL=2 ST=3 TYP=1
	280	CUBA	44 NS	1300.0E		530.0D		22.0		
	235	CUBA	44 NS	1300.0E		530.0D		18.0		
	245	SGMR	43 NS	1619.0	1730.0	150.0	140.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1709.0	1718.0D	132.0	190.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1929.0	1937.0	10.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1929.0	1937.0D	10.0	100.0			QL=2 ST=2 TYP=1
	245	SGMR	43 NS	2120.0	2157.0	45.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2204.0	2204.0	39.0	150.0			QL=2 ST=2 TYP=1
	204	IZMI	42 SER	0646.7	0646.9	1.7	350.0			
	204	IZMI	41 F	0742.6	0743.5	1.3	38.0			
	33	UPIC	4 S/F	0935.8	0935.9	0.4				
	33	UPIC	46 C	1037.2	1039.9	4.6				
	204	IZMI	45 C	1038.8	1039.3	0.8	2510.0			
	245	SVTO	8 S	1039.0	1039.0	U	82.0			QL=4 ST=2 TYP=3
	204	IZMI	25 R	1103.6		56.4D		20.0		
	245	SGMR	8 S	1223.0	1224.0	2.0	150.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1224.0	1224.0	U	33.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1231.0	1231.0	1.0	370.0			QL=4 ST=3 TYP=3
	33	UPIC	4 S/F	1254.9	1255.4	0.6				
245	SGMR	8 S	1356.0	1357.0	1.0	43.0			QL=4 ST=3 TYP=3	
33	UPIC	42 SER	1538.0	1604.5	26.5					
245	SGMR	8 S	1542.0	1542.0	U	110.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1542.0	1542.0	U	89.0			QL=4 ST=2 TYP=3	
235	CUBA	6 S	1551.5E	1551.7	1.5D	232.0				
245	SGMR	8 S	1603.0	1604.0	2.0	150.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1604.0	1604.0	U	17.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1604.0	1604.0	U	42.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1604.0	1604.0	U	40.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1604.0	1604.0	U	150.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1612.0	1613.0	2.0	250.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1613.0	1613.0	1.0	330.0			QL=4 ST=3 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)		
07	410	SGMR	8 S	1613.0	1613.0	U	49.0			QL=4 ST=3 TYP=3
	235	CUBA	6 S	1613.2	1614.0	2.2	206.0			
	280	CUBA	6 S	1613.2E	1614.0	2.2D	184.0			
	245	SVTO	8 S	1621.0	1622.0	1.0	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1656.0	1657.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2129.0	2130.0	2.0	72.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2157.0	2157.0	1.0	110.0			QL=2 ST=2 TYP=3
08	245	PALE	43 NS	0103.0	0259.0	165.0	410.0			QL=2 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		55.0		
	127	TORN	43 NS	0743.0		437.0		6.0		V=1
	245	SVTO	43 NS	0755.0	0801.0	103.0	180.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		13.0		
	280	CUBA	44 NS	1300.0E		530.0D		21.0		
	245	LEAR	8 S	0216.0	0218.0	2.0	74.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0220.0	0221.0	1.0	240.0			QL=4 ST=2 TYP=3
	2700	PURP	20 GRF	0338.5	0349.0	16.5	21.0			
	8800	LEAR	20 GRF	0342.0	0351.0	60.0	4.0			QL=4 ST=2 TYP=2
	4995	LEAR	20 GRF	0342.0	0349.0	137.0	8.0			QL=4 ST=2 TYP=2
	2695	LEAR	20 GRF	0343.0	0349.0	137.0	11.0			QL=4 ST=2 TYP=2
	2804	VORO	21 GRF	0343.8	0344.2	47.0D	6.0			
	1415	LEAR	20 GRF	0345.0	0349.0	10.0	13.0			QL=4 ST=2 TYP=2
	2804	VORO	3 S	0347.5	0349.2	3.2	3.0			
	5730	IRKU	1 S	0607.0	0609.7	8.0	2.0		U	
	245	LEAR	8 S	0650.0	0651.0	1.0	67.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0650.0	0651.0	2.0	75.0			QL=2 ST=2 TYP=3
	204	IZMI	25 R	0733.0U		143.0U		80.0		
	245	LEAR	8 S	0755.0	0756.0	1.0	84.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0800.0	0811.0	121.0	360.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	0811.0	0811.0	1.0	430.0			QL=2 ST=2 TYP=3
	600	GORK	4 S/F	0839.1	0843.2	7.3	7.5			
	2950	GORK	24 R	0842.0	0857.0	33.0D	10.0			
	2840	PEKG	4 S/F	0847.0	0851.5	18.0	14.2	9.9		
	3000	IZMI	22 GRF	0847.7	0851.3	80.0D	26.0			
	2695	LEAR	4 S/F	0848.0	0851.0	6.0	30.0			QL=4 ST=2 TYP=3
	5730	IRKU	21 GRF	0848.0	0851.3	57.0	7.0		U	
	2950	GORK	4 S/F	0848.3	0851.3	8.1	22.0			
	9100	GORK	2 S/F	0848.8	0850.3	3.7	6.9			
	2695	SVTO	8 S	0850.0	0851.0	2.0	29.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1144.0	1145.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1144.0	1145.0	1.0	120.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1653.0	1654.0	1.0	360.0			QL=2 ST=2 TYP=3
	245	SGMR	48 C	1653.0	1654.0	4.0	390.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	1653.0	1654.0	1.0	130.0			QL=2 ST=2 TYP=3
245	PALE	8 S	1657.0	1657.0	U	69.0			QL=2 ST=2 TYP=3	
245	PALE	8 S	1842.0	1842.0	U	58.0			QL=4 ST=3 TYP=3	
2695	PALE	8 S	1950.0	1950.0	U	59.0			QL=4 ST=2 TYP=3	
2800	PENT	29 PBI	2133.0	2134.0	58.0	120.0				
2695	PALE	4 S/F	2134.0	2135.0	7.0	130.0			QL=4 ST=2 TYP=3	
8800	PALE	4 S/F	2134.0	2135.0	7.0	59.0			QL=2 ST=2 TYP=3	
15400	PALE	4 S/F	2134.0	2135.0	7.0	78.0			QL=4 ST=2 TYP=3	
4995	PALE	4 S/F	2134.0	2135.0	7.0	120.0			QL=4 ST=2 TYP=3	
1415	PALE	4 S/F	2134.0	2135.0	7.0	37.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	2135.0	2135.0	U	56.0			QL=4 ST=2 TYP=3	
15400	SGMR	8 S	2135.0	2135.0	U	66.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	2135.0	2135.0	U	34.0			QL=4 ST=2 TYP=3	
4995	SGMR	8 S	2135.0	2135.0	1.0	120.0			QL=4 ST=2 TYP=3	
2695	SGMR	8 S	2135.0	2135.0	1.0	110.0			QL=4 ST=2 TYP=3	
2800	HIRA	29 PBI	2135.0	2135.4	12.0	100.0	14.0			
										WR
09	127	TORN	43 NS	0848.0		372.0		5.0		V=1
	235	CUBA	44 NS	1300.0E		530.0D		11.0		
	280	CUBA	44 NS	1300.0E		530.0D		19.0		
	5730	IRKU	3 S	0405.0	0406.3	13.0	7.0		U	
	245	LEAR	8 S	0422.0	0422.0	1.0	48.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0422.0	0422.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0422.0	0422.0	1.0	58.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0422.0	0422.0	4.0	86.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0422.9	0423.1	0.4	450.0			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		
09	5730	IRKU	21 GRF	0424.7	0426.0	27.3	11.0		U	
	245	LEAR	8 S	0545.0	0545.0		150.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0545.1	0545.3	0.4	700.0			0
	5730	IRKU	1 S	0606.7	0614.0	23.3	2.0		U	
	204	IZMI	7 C	0719.4	0719.5	0.4	250.0			
	245	LEAR	8 S	0758.0	0759.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0758.0	0759.0	1.0	260.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0758.0	0759.0	1.0	24.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0806.8	0809.2	6.0	97.0			
	600	GORK	4 S/F	0807.2	0909.1	62.9	12.2			
	200	HIRA	4 S/F	0807.6	0809.0	2.5	25.0	6.0		WR
	500	HIRA	4 S/F	0808.4	0809.1	1.7	14.0	4.0		WR
	5730	IRKU	1 S	0823.0	0826.5	30.0	4.0		U	
	3000	IZMI	22 GRF	0947.4	1012.4	69.1U	3.0			
	204	IZMI	41 F	0955.0	0955.1	0.3	102.0			
	204	IZMI	42 SER	1047.6	1047.8	0.9	124.0			
	204	IZMI	40 F	1128.6	1128.7	0.2	300.0			
	245	PALE	8 S	1919.0	1919.0		110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1919.0	1919.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1936.0	1937.0	3.0	67.0			QL=4 ST=2 TYP=3
245	PALE	49 GB	1936.0	1937.0	3.0	1100.0			QL=4 ST=2 TYP=6	
410	SGMR	8 S	1937.0	1937.0		65.0		U	QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1937.0	1937.0	1.0	930.0			QL=4 ST=2 TYP=6	
10	245	PALE	44 NS	0027.0E	0032.0	246.0D	110.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0032.0	0215.0	444.0	150.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0440.0	0453.0U	41.0	180.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		100.0		
	245	SVTO	43 NS	0608.0	0720.0	368.0	130.0			QL=4 ST=2 TYP=1
	127	TORN	43 NS	0740.0		330.0		4.0		V=1
	245	SGMR	43 NS	1127.0	1127.0	40.0	110.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1300.0E		530.0D		25.0		
	235	CUBA	44 NS	1300.0E		530.0D		15.0		
	245	SGMR	43 NS		1330.0	1.0	60.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1641.0	1746.0	96.0	160.0			QL=4 ST=3 TYP=1
	5730	IRKU	3 S	0111.0	0112.9	11.5	5.0		U	
	2804	VORO	20 GRF	0205.8	0216.0	45.0	4.6			
	5730	IRKU	1 S	0302.5	0302.8	1.6	2.0		U	
	5730	IRKU	20 GRF	0529.0	0533.0	17.0	2.0		U	
	33	UPIC	47 GB	0938.2	0950.5	23.6				
	245	SGMR	8 S	2130.0	2130.0		110.0			QL=4 ST=2 TYP=3
	11	204	IZMI	44 NS	0600.0E		360.0D		5.0	
280		CUBA	44 NS	1300.0E		530.0D		16.0		
235		CUBA	44 NS	1300.0E		530.0D		9.0		
5730		IRKU	1 S	0103.0	0103.4	1.6	2.0		U	
2804		VORO	21 GRF	0130.0	0150.0	75.0	2.9			
5730		IRKU	1 S	0204.0	0209.4	12.0	3.0		U	
2804		VORO	46 C	0206.2	0209.4	6.8	2.6			
2804		VORO	21 GRF	0429.1	0435.0	30.0D	6.0			
5730		IRKU	20 GRF	0430.0	0459.0	73.0	8.0		U	
2840		PEKG	45 C	0432.0	0433.0	2.0	23.7	18.2		
2700		PURP	4 S/F	0432.2	0434.0	8.8	27.0			
2804		VORO	4 S/F	0432.8	0433.3	1.2	19.0			
2804		VORO	3 S	0452.2	0454.4	5.6	3.5			
2840		PEKG	1 S	0453.0	0454.0	5.0	2.8	2.1		
5730		IRKU	20 GRF	0759.5	0848.8	105.5D	12.0		U	
600		GORK	4 S/F	0816.7	0909.1	63.0	10.2			
204		IZMI	25 R	1013.0U		40.0U		25.0		
2800		PENT	4 S/F	1500.0	1511.0	91.0	23.0			
33	UPIC	46 C	1504.0	1505.5	4.0					
12	204	IZMI	44 NS	0600.0E		300.0D		10.0		
	235	CUBA	44 NS	1310.0E		520.0D		8.0		
	245	LEAR	8 S	0524.0	0524.0		60.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0524.0	0524.0		72.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0542.0	0542.0		61.0			QL=4 ST=2 TYP=3
	204	IZMI	25 R	0654.0		138.0U		25.0		
	245	LEAR	8 S	0751.0	0752.0	1.0	74.0			QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m ² Hz)	Flux Density Mean	Int	Remarks
12	33	UPIC	46 C	1213.5	1214.5	4.0				
13	5730	IRKU	20 GRF	0331.5	0353.8	70.5	2.0		U	
14	204	IZMI	43 NS	0600.0		360.00		5.0		
	245	LEAR	8 S	0127.0	0127.0		58.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0127.0	0127.0		54.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0357.0	0358.0	1.0	59.0			QL=4 ST=2 TYP=3
	5730	IRKU	20 GRF	0859.0	0920.5	39.0	2.0		U	
	610	SVTO	8 S	1019.0	1019.0		90.0			QL=4 ST=2 TYP=3
15	5730	IRKU	20 GRF	0534.2	0540.5	85.8U	3.0		U	
	600	GORK	47 GB	0711.5	0800.0	75.5	158.0			
	9100	GORK	32 ABS	0731.0	0741.0	25.3	6.7			
	2840	PEKG	45 C	0740.0	0745.0	63.0	18.4	16.3		
	4995	SVTO	4 S/F	0741.0	0745.0	9.0	95.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0741.0	0745.0	12.0	140.0			QL=4 ST=2 TYP=3
	5730	IRKU	45 C	0741.0	0745.0U	123.0	70.0U		U	
	9100	GORK	4 S/F	0741.4	0745.1	9.2	96.0			
	2950	GORK	46 C	0741.4	0745.1	14.0	50.0			
	3000	IZMI	7 C	0741.6	0745.1	32.4	37.0			
	2700	PURP	45 C	0741.7	0745.7	34.0	76.0			
	4995	LEAR	4 S/F	0742.0	0745.0	5.0	81.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0742.0	0745.0	6.0	70.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0742.0	0745.0	6.0	49.0			QL=4 ST=2 TYP=3
	2800	HIRA	4 S/F	0742.0	0744.5	9.0	40.0	10.0		
	2695	LEAR	4 S/F	0743.0	0745.0	4.0	41.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0743.0	0747.0	9.0	79.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0743.0	0747.0	11.0	85.0			QL=4 ST=3 TYP=3
	15400	LEAR	4 S/F	0743.0	0745.0	977.0	45.0			QL=4 ST=1 TYP=3
	500	HIRA	46 C	0743.0	0750.2	45.0	400.0			MR
	8800	LEAR	8 S	0744.0	0745.0	1.0	42.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	0744.0	0750.0	10.0	140.0			QL=4 ST=3 TYP=8
	245	SVTO	48 C	0745.0	0753.0	10.0	200.0			QL=4 ST=3 TYP=8
	610	LEAR	8 S	0746.0	0746.0		76.0		U	QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0746.0	0750.0	9.0	2000.0			QL=4 ST=3 TYP=6
	204	IZMI	45 C	0746.6	0807.8	50.4	80.0			
	410	LEAR	49 GB	0747.0	0750.0	8.0	1200.0			QL=4 ST=2 TYP=6
	245	SVTO	48 C	0747.0	0753.0	7.0	200.0			QL=4 ST=2 TYP=8
	245	LEAR	4 S/F	0750.0	0753.0	4.0	170.0			QL=4 ST=2 TYP=3
	200	HIRA	4 S/F	0751.6	0752.7	3.0	14.0	3.0		
	2950	GORK	30 PBI	0755.4	0821.0	49.60	8.8			
	610	SVTO	48 C	0757.0	0806.0	15.0	120.0			QL=2 ST=2 TYP=8
	410	SVTO	4 S/F	0757.0	0759.0	14.0	220.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0758.0	0759.0	4.0	160.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0759.0	0759.0	1.0	61.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0759.0	0759.0	3.0	45.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0759.0	0800.0	1.0	38.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0759.0	0801.0	3.0	28.0			QL=2 ST=2 TYP=3
	1415	SVTO	4 S/F	0759.0	0759.0	3.0	44.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0759.0	0759.0	3.0	49.0			QL=4 ST=2 TYP=3
	2950	GORK	41 F	0759.4	0759.8	3.2	15.0			
	1415	LEAR	4 S/F	0804.0	0807.0	6.0	50.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0804.0	0806.0	6.0	65.0			QL=4 ST=2 TYP=3
	9100	GORK	20 GRF	0804.5	0807.6	36.3	13.4			
	2950	GORK	4 S/F	0804.6	0807.6	10.4	26.0			
	410	LEAR	8 S	0806.0	0806.0	2.0	42.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0806.0	0807.0	3.0	35.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0806.0	0807.0	4.0	30.0			QL=4 ST=2 TYP=3
	200	HIRA	4 S/F	0806.0	0807.7	3.2	23.0	5.0		
	2800	HIRA	4 S/F	0806.0	0807.7	7.0	22.0	5.0		
	2695	LEAR	8 S	0807.0	0807.0	1.0	29.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0807.0	0808.0	1.0	41.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0807.0	0808.0	1.0	24.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	1212.0	1238.0	38.0	6600.0			QL=2 ST=2 TYP=8
	2695	SVTO	4 S/F	1215.0	1226.0	32.0	72.0			QL=4 ST=3 TYP=3
	1415	SVTO	4 S/F	1222.0	1226.0	23.0	77.0			QL=4 ST=3 TYP=3
	245	SVTO	4 S/F	1223.0	1238.0	36.0	290.0			QL=4 ST=3 TYP=3
	2695	SGMR	8 S	1225.0	1226.0	2.0	75.0			QL=4 ST=2 TYP=3

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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 ⁻²² W/m ² Hz)	Mean		
15	2695 SVTO	8 S	1225.0	1226.0	2.0	72.0			QL=4 ST=2 TYP=3
	1415 SGMR	4 S/F	1225.0	1226.0	14.0	73.0			QL=4 ST=2 TYP=3
	33 UPIC	45 C	1225.8	1226.2	2.0				
	410 SVTO	8 S	1226.0	1226.0	1.0	29.0			QL=4 ST=2 TYP=3
	610 SGMR	48 C	1226.0	1238.0	26.0	8500.0			QL=4 ST=2 TYP=8
	410 SGMR	48 C	1232.0	1238.0	19.0	10000.0			QL=4 ST=2 TYP=8
	410 SVTO	48 C	1232.0	1238.0	27.0	9900.0			QL=4 ST=3 TYP=8
	33 UPIC	45 C	1233.8	1234.0	1.4				
	245 SVTO	8 S	1234.0	1234.0		24.0		U	QL=4 ST=2 TYP=3
	245 SGMR	4 S/F	1237.0	1239.0	12.0	330.0			QL=4 ST=2 TYP=3
2800 PENT	29 PBI	1500.0	1507.0	91.0	18.0				
16	2840 PEKG	21 GRF	0103.0	0109.0	10.0	23.4	20.9		
	5730 IRKU	45 C	0103.7	0108.7	71.3	60.0		U	
	2804 VORO	46 C	0104.7	0109.4	7.7	19.0			
	4995 LEAR	4 S/F	0105.0	0108.0	7.0	41.0			QL=4 ST=2 TYP=3
	2695 LEAR	4 S/F	0105.0	0110.0	7.0	21.0			QL=4 ST=2 TYP=3
	8800 LEAR	4 S/F	0105.0	0108.0	7.0	27.0			QL=4 ST=2 TYP=3
	2700 PURP	4 S/F	0105.3	0109.9	7.8	20.0			
	1415 LEAR	4 S/F	0106.0	0108.0	6.0	12.0			QL=4 ST=2 TYP=3
	2800 HIRA	4 S/F	0106.1	0110.4	5.0	17.0		4.0	
	610 PALE	4 S/F	0107.0	0112.0	8.0	98.0			QL=4 ST=2 TYP=3
	2695 PALE	4 S/F	0107.0	0109.0	8.0	13.0			QL=4 ST=2 TYP=3
	410 PALE	4 S/F	0107.0	0113.0	8.0	48.0			QL=4 ST=2 TYP=3
	4995 PALE	4 S/F	0108.0	0109.0	7.0	29.0			QL=4 ST=2 TYP=3
	500 HIRA	46 C	0110.2	0118.0	9.0	70.0		7.0	WL
	610 LEAR	4 S/F	0111.0	0112.0	3.0	84.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	0113.0	0113.0	2.0	49.0			QL=4 ST=2 TYP=3
	410 LEAR	4 S/F	0117.0	0117.0	3.0	78.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	0117.0	0117.0	1.0	38.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	0117.0	0117.0	1.0	88.0			QL=4 ST=2 TYP=3
	610 PALE	8 S	0117.0	0117.0	1.0	43.0			QL=4 ST=2 TYP=3
410 LEAR	4 S/F	0122.0	0124.0	3.0	250.0			QL=4 ST=2 TYP=3	
410 PALE	4 S/F	0122.0	0124.0	3.0	300.0			QL=4 ST=2 TYP=3	
500 HIRA	42 SER	0122.7	0124.6	2.5	70.0			WL	
2950 GORK	1 S	0906.5	0907.2	1.2	3.5				
2800 PENT	8 S	2126.0	2126.0	4.0	27.0				
17	280 CUBA	44 NS	1310.0E		520.0D		15.0		
	5730 IRKU	20 GRF	0404.5	0406.1	3.5	2.0		U	
18	280 CUBA	44 NS	1310.0E		512.0D		16.0		
	235 CUBA	44 NS	1310.0E		512.0D		8.0		
	245 SGMR	8 S	1304.0	1304.0	1.0	62.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	1304.0	1305.0	1.0	52.0			QL=4 ST=2 TYP=3
19	235 CUBA	44 NS	1300.0E		530.0D		7.0		
	280 CUBA	44 NS	1300.0E		530.0D		16.0		
	245 PALE	8 S	2348.0	2348.0	1.0	53.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	2348.0	2348.0	1.0	55.0			QL=4 ST=2 TYP=3
20	235 CUBA	44 NS	1300.0E		530.0D		7.0		
	280 CUBA	44 NS	1300.0E		530.0D		15.0		
21	204 IZMI	43 NS	0600.0		360.0D		5.0		
	280 CUBA	44 NS	1300.0E		530.0D		14.0		
	235 CUBA	44 NS	1300.0E		530.0D		7.0		
	245 SVTO	8 S	1008.0	1008.0		210.0			QL=4 ST=2 TYP=3
	2800 PENT	41 F	1923.0	1927.0	8.0	9.0			
22	280 CUBA	44 NS	1300.0E		530.0D		16.0		
	235 CUBA	44 NS	1300.0E		530.0D		8.0		
23	204 IZMI	43 NS	0600.0		360.0D		5.0		
	280 CUBA	44 NS	1300.0E		530.0D		15.0		
	235 CUBA	44 NS	1300.0E		530.0D		8.0		
	2840 PEKG	47 GB	0516.0	0542.0	154.0	546.0	469.0		
	5730 IRKU	45 C	0520.5	0542.3	264.5D	1890.0		U	
	2950 GORK	47 GB	0525.3	0539.0U	69.4	276.0D			

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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		
23	1415	LEAR	4 S/F	0536.0	0538.0	16.0	200.0			QL=4 ST=2 TYP=3
	8800	LEAR	49 GB	0536.0	0542.0	16.0	2400.0			QL=4 ST=2 TYP=6
	245	LEAR	49 GB	0536.0	0540.0	16.0	590.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0536.0	0540.0	13.0	740.0			QL=4 ST=2 TYP=6
	2695	LEAR	4 S/F	0536.0	0541.0	29.0	430.0			QL=4 ST=2 TYP=3
	1415	SVTO	48 C	0536.0	0539.0	28.0	200.0			QL=4 ST=2 TYP=8
	4995	LEAR	49 GB	0536.0	0542.0	30.0	2000.0			QL=4 ST=2 TYP=6
	8800	SVTO	48 C	0536.0	0542.0	32.0	3100.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	0536.0	0542.0	31.0	2100.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	0536.0	0542.0	33.0	480.0			QL=4 ST=2 TYP=8
	410	SVTO	4 S/F	0536.0	0539.0	1104.0	250.0			QL=4 ST=1 TYP=3
	15400	SVTO	49 GB	0536.0	0542.0	1104.0	1600.0			QL=4 ST=1 TYP=6
	610	SVTO	4 S/F	0536.0	0539.0	1104.0	94.0			QL=4 ST=1 TYP=3
	2800	HIRA	46 C	0536.0	0541.4	34.0	390.0	50.0		0
	33	UPIC	46 C	0536.0	0538.5	14.5				0
	500	HIRA	46 C	0536.0	0538.7	48.0	90.0	10.0		0
	600	GORK	47 GB	0536.2	0539.0	23.2	42.0			0
	9100	GORK	47 GB	0536.2	0643.0U	69.8U	50000.0D			0
	200	HIRA	46 C	0536.6	0542.0	25.0	160.0	10.0		0
	15400	LEAR	49 GB	0537.0	0542.0	14.0	2100.0			QL=2 ST=2 TYP=6
	410	LEAR	4 S/F	0537.0	0539.0	16.0	190.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0537.0	0539.0	12.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0537.0	0539.0	16.0	250.0			QL=4 ST=2 TYP=3
	15400	SVTO	48 C	0537.0	0542.0	31.0	1400.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	0538.0	0539.0	27.0	110.0			QL=4 ST=2 TYP=8
	33	UPIC	31 ABS	0547.0E		10.5D				0
	3000	IZMI	45 C	0552.0E	0556.3	54.6U	227.0			0
	600	GORK	30 PBI	0559.4	0619.0	51.6	6.2			0
	204	IZMI	25 R	0606.0		27.6		10.0		0
	9100	GORK	30 PBI	0606.0	0606.0	85.3	25.0			0
	2800	HIRA	46 C	0611.5	0614.0	15.0	15.0	3.0		0
	200	HIRA	46 C	0618.6	0619.5	4.5	6.0	2.0		0
	500	HIRA	46 C	0628.7	0629.9	12.0	5.0	1.0		0
	600	GORK	22 GRF	0654.0	0701.8	18.0	2.1			0
	500	HIRA	42 SER	0656.4	0657.4	1.1	13.0			0
	2950	GORK	5 S	0656.7	0658.2	6.3	40.0			0
	3000	IZMI	7 C	0657.0	0658.1	23.8	36.0			0
	9100	GORK	5 S	0657.0	0658.2	3.5	16.0			0
	2800	HIRA	3 S	0657.0	0658.5	6.0	25.0	5.0		0
	3000	IZMI	22 GRF	0947.0	1033.5	67.7	6.0			0
204	IZMI	25 R	1004.0		79.0		5.0		0	
24	280	CUBA	44 NS	1300.0E		530.0D	16.0			0
	235	CUBA	44 NS	1300.0E		530.0D	8.0			0
	5730	IRKU	45 C	0835.0	0847.3	70.0D	174.0		U	0
	2840	PEKG	46 C	0836.0	0849.0	69.0	83.0	75.5		0
	3000	IZMI	7 C	0837.5	0838.4	1.5	11.0	5.0		0
	204	IZMI	7 C	0837.7	0848.5	30.0	32.0			0
	2800	HIRA	2 S/F	0838.0	0838.7	1.0	13.0	3.0		0
	3000	IZMI	22 GRF	0841.6	0848.6	60.0	60.0			0
	500	HIRA	42 SER	0843.2	0845.6	2.5	5.0			0
	2800	HIRA	46 C	0843.5	0847.2	10.0	35.0	8.0		0
	2695	LEAR	4 S/F	0844.0	0848.0	8.0	61.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0844.0	0848.0	8.0	160.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0845.0	0848.0	7.0	97.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0845.0	0848.0	4.0	25.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0845.0	0848.0	4.0	39.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0845.0	0848.0	8.0	180.0			QL=4 ST=2 TYP=3
8800	SVTO	4 S/F	0845.0	0847.0	10.0	210.0			QL=4 ST=2 TYP=3	
15400	SVTO	4 S/F	0846.0	0848.0	8.0	82.0			QL=4 ST=2 TYP=3	
2695	SVTO	4 S/F	0846.0	0848.0	5.0	59.0			QL=4 ST=3 TYP=3	
25	204	IZMI	43 NS	0600.0		360.0D	20.0			0
	280	CUBA	44 NS	1300.0E		530.0D	17.0			0
	235	CUBA	44 NS	1300.0E		530.0D	10.0			0
	245	SGMR	43 NS	2045.0	2045.0	27.0	84.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2049.0	2112.0	23.0	58.0			QL=2 ST=2 TYP=1
	245	LEAR	43 NS	2319.0	2328.0	53.0	78.0			QL=4 ST=2 TYP=1
5730	IRKU	4 S/F	0103.5	0108.6	40.0	5.0		U	0	

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APRIL 1998

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	41 F	0630.3	0630.6	1.2	295.0			
	200	HIRA	8 S	0630.5	0630.7	0.5	160.0		0	
	200	HIRA	8 S	0758.5	0759.0	1.0	22.0		0	
	204	IZMI	42 SER	0759.2	0759.5	1.2	50.0			
	200	HIRA	8 S	0838.2	0838.4	0.5	22.0			WR
	204	IZMI	41 F	1006.4	1006.5	0.3	50.0			
	204	IZMI	42 SER	1054.1	1054.3	1.8	15.4			
	245	SGMR	4 S/F	1057.0	1058.0	3.0	110.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	1057.3	1058.3	3.0	270.0	110.0		
	245	SVTO	8 S	1058.0	1058.0	U	130.0			QL=4 ST=3 TYP=3
	33	UPIC	46 C	1058.0	1058.5	1.7				
	127	TORN	4 S/F	1122.2	1124.0	3.0	130.0	30.0		
	33	UPIC	46 C	1123.2	1123.8	1.8				
	8800	SVTO	49 GB	1329.0	1330.0	2.0	14000.0			QL=4 ST=3 TYP=6
	245	SVTO	8 S	1330.0	1330.0	1.0	48.0			QL=4 ST=2 TYP=3
	2800	PENT	41 F	1400.0	1453.0	100.0	64.0			
	280	CUBA	48 C	1410.0	1420.1	17.7	209.0			
	245	SGMR	48 C	1416.0	1425.0	16.0	420.0			QL=4 ST=3 TYP=8
	410	SGMR	4 S/F	1418.0	1419.0	8.0	52.0			QL=4 ST=3 TYP=3
	235	CUBA	48 C	1418.0	1420.1	17.1	209.0			
	245	SVTO	4 S/F	1421.0	1425.0	11.0	390.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1422.0	1425.0	4.0	33.0			QL=4 ST=3 TYP=3
	4995	SVTO	4 S/F	1422.0	1425.0	7.0	45.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1422.0	1426.0	10.0	38.0			QL=4 ST=3 TYP=3
	2695	SVTO	4 S/F	1423.0	1426.0	5.0	37.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1423.0	1425.0	3.0	36.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1452.0	1455.0	9.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1452.0	1455.0	6.0	130.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1453.0	1455.0	5.0	18.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1453.0	1454.0	1.0	18.0			QL=2 ST=2 TYP=3
	410	SGMR	4 S/F	1453.0	1455.0	5.0	68.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1453.0	1453.0	5.0	72.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1453.0	1453.0	8.0	73.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1453.0	1453.0	6.0	46.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1453.0	1453.0	6.0	74.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1453.0	1453.0	4.0	79.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1453.0	1453.0	4.0	43.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1453.0	1455.0	4.0	75.0			QL=4 ST=2 TYP=3
	33	UPIC	48 C	1453.0	1454.0	6.0				
	6700	CUBA	20 GRF	1532.0	1539.5	20.0	4.0	2.0		20L
	33	UPIC	4 S/F	1546.0	1546.2	1.3				
	6700	CUBA	3 S	1759.0	1804.8	10.0	19.0	9.0		20L
	410	PALE	4 S/F	1802.0	1804.0	3.0	86.0			QL=2 ST=2 TYP=3
	245	PALE	4 S/F	1802.0	1803.0	3.0	410.0			QL=2 ST=2 TYP=3
	245	SGMR	4 S/F	1802.0	1803.0	3.0	380.0			QL=4 ST=2 TYP=3
410	SGMR	4 S/F	1802.0	1804.0	3.0	90.0			QL=4 ST=2 TYP=3	
280	CUBA	7 C	1803.0	1804.2	3.2	289.0				
235	CUBA	7 C	1803.0	1804.2	3.2	237.0				
6700	CUBA	1 S	1812.9	1814.3	3.3	4.0	2.0		50L	
6700	CUBA	1 S	1828.5	1830.0	6.0	3.0	1.0		50L	
410	PALE	4 S/F	1948.0	1949.0	3.0	45.0			QL=2 ST=2 TYP=3	
410	SGMR	8 S	1948.0	1949.0	1.0	50.0			QL=4 ST=2 TYP=3	
6700	CUBA	20 GRF	2012.0	2038.0	43.0	5.0	3.0		24L	
245	SGMR	4 S/F	2026.0	2027.0	4.0	72.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2027.0	2028.0	1.0	60.0			QL=2 ST=2 TYP=3	
26	245	LEAR	43 NS	0050.0	0054.0	253.0	67.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		5.0		
	245	SGMR	43 NS	1947.0	2123.0	208.0	310.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1947.0	2123.0	531.0	350.0			QL=2 ST=2 TYP=1
	245	LEAR	43 NS	2257.0	2257.0U	332.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	8 S	0027.0	0028.0	1.0	55.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0054.0	0054.0	1.0	69.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0428.0	0428.0	1.0	67.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0428.0	0429.0	1.0	61.0			QL=4 ST=2 TYP=3
	5730	IRKU	4 S/F	0550.3	0553.0	9.7	3.0			U
5730	IRKU	1 S	0609.0	0610.3	11.0	1.0			U	
3000	IZMI	22 GRF	0732.3	0821.3	74.0	7.0				

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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		
27	245	SVTO	43 NS	0429.0	0429.0	U	65.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		180.0D		40.0		
	127	TORN	43 NS	0702.0		288.0		40.0		V=1
	245	SVTO	43 NS	0721.0	0831.0	197.0	120.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0732.0	0823.0	133.0	90.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	2246.0	2306.0	30.0	190.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0555.0	0555.0	U	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0555.0	0555.0	U	74.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0628.0	0628.0	1.0	96.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0628.0	0628.0	1.0	130.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0651.0	0655.8	10.0	4.0	3.7		
	3000	IZMI	22 GRF	0654.7	0655.6	18.6	3.0			
	2950	GORK	1 S	0654.7	0655.7	2.3	2.9			
	2950	GORK	20 GRF	0712.9	0717.1	20.5	5.9			
	2840	PEKG	3 S	0713.0	0716.9	14.0	5.4	5.1		
	245	LEAR	8 S	0714.0	0714.0	1.0	97.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0714.0	0714.0	1.0	110.0			QL=2 ST=2 TYP=3
	3000	IZMI	22 GRF	0714.0	0717.2	27.7	7.0			
	204	IZMI	25 R	0725.0		90.0		40.0		
	2840	PEKG	47 GB	0750.0	0910.0	156.0	737.0	686.0		
	3000	IZMI	28 PRE	0753.7	0759.7	23.0	4.0			
	2950	GORK	28 PRE	0757.5	0830.2	54.0	25.3			
	9100	GORK	28 PRE	0817.1	0902.3	49.9	38.0			
	3000	IZMI	45 C	0822.0	0910.0	228.0	886.0			
	600	GORK	22 GRF	0822.4	0832.3	27.4	11.7			
	5730	IRKU	45 C	0823.5	0909.3	106.5D	963.0		U	
	500	HIRA	46 C	0824.0	0841.5	24.0	10.0	3.0		O
	2800	HIRA	29 PBI	0826.0	0830.5	24.0	18.0	3.0		WR
	2695	LEAR	48 C	0850.0	0913.0	57.0	1100.0			QL=4 ST=2 TYP=8
	1415	SVTO	48 C	0850.0	0902.0	910.0	670.0			QL=4 ST=1 TYP=8
	2695	SVTO	48 C	0850.0	0911.0	910.0	950.0			QL=4 ST=1 TYP=8
	2950	GORK	47 GB	0851.1	0906.2	29.8	841.7			
	600	GORK	47 GB	0851.5	0909.5	29.5	163.0			
	2695	SVTO	48 C	0856.0	0911.0	44.0	950.0			QL=4 ST=2 TYP=8
	1415	SVTO	48 C	0856.0	0913.0	44.0	410.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	0856.0	0909.0	77.0	1000.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0857.0	0914.0	32.0	420.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0857.0	0909.0	47.0	1200.0			QL=4 ST=2 TYP=8
	610	SVTO	4 S/F	0858.0	0909.0	53.0	210.0			QL=4 ST=3 TYP=3
	410	SVTO	48 C	0859.0	0911.0	39.0	900.0			QL=4 ST=2 TYP=8
	410	LEAR	48 C	0900.0	0909.0	23.0	650.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	0901.0	0911.0	46.0	360.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	0901.0	0910.0	96.0	990.0			QL=4 ST=3 TYP=8
	500	HIRA	46 C	0901.7	0909.2	17.0	600.0			ML
	8800	LEAR	48 C	0902.0	0909.0	36.0	540.0			QL=4 ST=2 TYP=8
	2800	HIRA	3 S	0902.0	0902.5	1.2	22.0	3.0		O
	245	LEAR	48 C	0903.0	0911.0	18.0	2500.0			QL=4 ST=2 TYP=8
	610	LEAR	48 C	0903.0	0909.0	19.0	260.0			QL=4 ST=2 TYP=8
	33	UPIC	49 GB	0903.0	0906.5	26.8				
	204	IZMI	47 GB	0904.2	0911.2	59.4	2500.0			
200	HIRA	46 C	0904.7	0910.2	11.0	1100.0			ML	
127	TORN	47 GB	0905.0	0911.5U	23.6	1200.0D	390.0D			
245	SVTO	48 C	0906.0	0911.0	32.0	3400.0			QL=4 ST=2 TYP=8	
15400	LEAR	20 GRF	0907.0	0912.0	20.0	410.0			QL=2 ST=2 TYP=2	
9100	GORK	47 GB	0907.0	0908.6	17.9	674.0				
600	GORK	30 PBI	0921.0	0921.0	27.0	17.3				
2950	GORK	30 PBI	0921.3	0921.3	48.0D	150.2				
9100	GORK	29 PBI	0924.9	0927.0	44.0D	81.0				
33	UPIC	31 ABS	0929.0E		42.5D					
204	IZMI	25 R	1005.3	1034.4	108.2		15.0			
3000	IZMI	5 S	1031.0	1032.5	5.7	3.0				
610	SGMR	8 S	1348.0	1348.0	2.0	120.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	1348.0	1348.0	1.0	100.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1429.0	1430.0	1.0	230.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	1429.0	1430.0	2.0	200.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1610.0	1610.0	U	140.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	1610.0	1610.0	U	160.0			QL=2 ST=2 TYP=3	
28	204	IZMI	44 NS	0600.0E		360.0D		10.0		

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APRIL 1998

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
28	127	TORN	43 NS	0811.0		400.0		2.0		V=1
	280	CUBA	44 NS	1300.0E		530.0D		14.0		
	235	CUBA	44 NS	1300.0E		530.0D		8.0		
	5730	IRKU	1 S	0044.7	0049.2	18.3	2.0		U	
	5730	IRKU	1 S	0644.0	0645.3	4.2	2.0		U	
	204	IZMI	42 SER	0914.4	0919.2	30.0	20.0			
	6700	CUBA	2 S/F	1921.7	1922.5	1.7	10.0	5.0		15L
	200	HIRA	42 SER	1954.0	1954.6	0.7	13.0			0
	200	HIRA	42 SER	2034.2	2034.4	6.0	80.0			0
	2800	PENT	1 S	2119.0	2122.0	21.0	6.0			
	200	HIRA	42 SER	2339.2	2340.6	11.0	320.0			0
	245	LEAR	8 S	2340.0	2340.0	1.0	310.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2340.0	2340.0	1.0	430.0			QL=2 ST=2 TYP=3
	500	HIRA	42 SER	2340.2	2340.3	4.7	14.0			0
	2840	PEKG	1 S	2342.0	2346.0	45.0	2.8	2.6		
	2804	VORO	1 S	2345.0	2345.6	1.3	2.7			
29	245	LEAR	43 NS	0537.0	0811.0	161.0	190.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0542.0	0600.0	65.0	220.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		30.0		
	127	TORN	44 NS	0620.0E		300.0D		110.0		V=2
	33	UPIC	43 NS	0812.8		561.7				
	245	SVTO	44 NS	0921.0E	1025.0	323.0D	320.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	1002.0	1005.0	10.0	60.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1020.0	1102.0U	416.0	360.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1315.0E		440.0D		29.0		
	280	CUBA	44 NS	1315.0E		440.0D		39.0		
	5730	IRKU	45 C	0124.0	0143.4	49.0	16.0		U	
	200	HIRA	42 SER	0129.2	0138.0	9.0	110.0			0
	2840	PEKG	45 C	0132.0	0143.5	30.0	27.0	25.2		
	2804	VORO	28 PRE	0135.2	0140.0	6.3	6.0			
	245	PALE	4 S/F	0137.0	0138.0	3.0	57.0			QL=2 ST=2 TYP=3
	500	HIRA	42 SER	0137.5	0137.9	0.7	20.0			0
	2800	HIRA	20 GRF	0138.5	0143.2	17.0	16.0	4.0		0
	2804	VORO	3 S	0141.5	0143.2	3.7	11.0			
	245	PALE	8 S	0144.0	0144.0	1.0	53.0			QL=2 ST=2 TYP=3
	2804	VORO	29 PBI	0145.2		27.0	10.0			
	5730	IRKU	4 S/F	0316.5	0321.7	15.5	12.0		U	
	2804	VORO	3 S	0353.7	0355.2	2.3	24.0			
	5730	IRKU	1 S	0353.9	0355.8	6.1	3.0		U	
	500	HIRA	42 SER	0405.2	0411.7	7.0	10.0			0
	200	HIRA	42 SER	0407.2	0408.0	3.2	110.0			0
	245	LEAR	8 S	0410.0	0410.0	1.0	78.0			QL=4 ST=2 TYP=3
	410	PALE	46 C	0410.0	0414.0	4.0	47.0			QL=2 ST=2 TYP=8
	245	PALE	8 S	0410.0	0410.0	1.0	110.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0412.0	0413.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0412.0	0413.0	4.0	120.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0449.3	0456.0	11.5	4.0		U	
	245	SVTO	8 S	0452.0	0453.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0453.0	0453.0	1.0	90.0			QL=4 ST=2 TYP=3
	5730	IRKU	45 C	0509.0	0539.3	46.0	21.0		U	
	200	HIRA	42 SER	0512.1	0517.2	11.0	680.0			0
	245	LEAR	8 S	0515.0	0517.0	2.0	250.0			QL=4 ST=2 TYP=3
	9100	GORK	42 SER	0516.2	0539.3	23.9	10.4			
	245	SVTO	8 S	0517.0	0517.0	1.0	320.0			QL=4 ST=2 TYP=3
	600	GORK	42 SER	0517.0	0520.8	24.0	23.2			
	33	UPIC	2 S/F	0517.5	0518.0	1.5				
410	LEAR	48 C	0520.0	0523.0	3.0	200.0			QL=4 ST=2 TYP=8	
610	LEAR	8 S	0520.0	0521.0	1.0	32.0			QL=4 ST=2 TYP=3	
245	LEAR	4 S/F	0520.0	0520.0	3.0	200.0			QL=4 ST=2 TYP=3	
410	SVTO	48 C	0520.0	0523.0	3.0	230.0			QL=4 ST=2 TYP=8	
245	SVTO	8 S	0520.0	0520.0	2.0	270.0			QL=4 ST=2 TYP=3	
500	HIRA	42 SER	0520.2	0520.7	3.2	35.0			MR	
2840	PEKG	1 S	0521.0	0522.9	3.0	2.1	2.0			
2840	PEKG	1 S	0537.0	0538.9	5.0	1.7	1.6			
500	HIRA	27 RF	0541.0	0600.0	65.0	6.0	2.0		WR	
5730	IRKU	1 S	0611.0	0612.0	2.0	1.0		U		
410	SVTO	8 S	0624.0	0624.0		140.0			QL=4 ST=3 TYP=3	
2840	PEKG	1 S	0641.0	0643.3	5.0	3.7	3.4			

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

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
29	5730	IRKU	1 S	0642.0	0643.7	4.0	2.0		U	
	600	GORK	45 C	0643.0	0643.3	1.7	1.3			
	204	IZMI	41 F	0643.1	0643.6	0.9	662.0			
	200	HIRA	42 SER	0643.2	0643.5	1.2	60.0			0
	5730	IRKU	45 C	0652.0	0701.2	27.5	6.0		U	
	33	UPIC	2 S/F	0709.0	0709.5	1.2				
	5730	IRKU	1 S	0722.2	0725.5	7.8	6.0		U	
	2840	PEKG	20 GRF	0738.0	0819.0	60.0	24.1	22.4		
	5730	IRKU	45 C	0741.0	0813.5	49.0	31.0		U	
	3000	IZMI	23 GRF	0741.6	0816.3	71.4	15.0			
	600	GORK	22 GRF	0758.8	0813.0U	24.7U	7.2			
	2950	GORK	22 GRF	0759.7	0816.3	21.2	8.5			
	9100	GORK	20 GRF	0800.4	0813.0U	23.7	9.1U			
	500	HIRA	42 SER	0806.5	0813.2	11.0	5.0			0
	200	HIRA	42 SER	0809.2	0812.7	4.5	250.0			0
	245	SVTO	4 S/F	0810.0	0813.0	8.0	440.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0812.0	0813.0	1.0	350.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0812.7	0813.1	1.3	660.0			
	3000	IZMI	7 C	0812.7	0813.4	1.3	21.0			
	4995	SVTO	8 S	0813.0	0813.0	1.0	47.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0813.0	0813.0	1.0	34.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0813.0	0813.0	1.0	48.0			QL=4 ST=2 TYP=3
	204	IZMI	25 R	0842.0						
	204	IZMI	42 SER	1042.9	1043.1	1.9	162.0	80.0		
	33	UPIC	48 C	1052.0	1053.5	6.0				
	204	IZMI	7 C	1054.4	1057.3	3.2	373.0			
	410	SVTO	4 S/F	1245.0	1247.0	3.0	91.0			
	410	SGMR	8 S	1246.0	1247.0	2.0	71.0			QL=4 ST=2 TYP=3
	2800	PENT	40 F	1606.0	1629.0	23.0D	114.0			QL=4 ST=3 TYP=3
	6700	CUBA	46 C	1612.7	1614.0		69.0			
	6700	CUBA	46 C	1612.7	1630.0	26.2	173.0	30.0		6R
	410	SGMR	8 S	1613.0	1614.0	1.0	160.0			4L COMPLEX POL
	4995	SGMR	48 C	1613.0	1613.0	4.0	93.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1613.0	1616.0	4.0	57.0			QL=4 ST=2 TYP=8
	610	SGMR	8 S	1613.0	1613.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1614.0	1614.0		580.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1614.0	1614.0		43.0			QL=4 ST=2 TYP=6
	1415	SGMR	48 C	1619.0	1624.0	17.0	250.0			QL=4 ST=2 TYP=3
	235	CUBA	48 C	1623.4	1632.0	46.6	232.0			QL=4 ST=2 TYP=8
	280	CUBA	49 GB	1623.4	1632.0	46.6	870.0			
	33	UPIC	48 C	1623.5	1638.5	21.0				
	610	SGMR	48 C	1624.0	1626.0	12.0	500.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1624.0	1632.0	12.0	470.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1627.0	1630.0	9.0	1400.0			QL=4 ST=2 TYP=8
	4995	SGMR	4 S/F	1629.0	1630.0	7.0	210.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1629.0	1630.0	7.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1630.0	1631.0	1.0	60.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1631.0	1631.0	1.0	52.0			QL=2 ST=2 TYP=3
	8800	PALE	20 GRF	1636.0	1637.0	9.0	91.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1636.0	1637.0	1.0	61.0			QL=4 ST=2 TYP=2
245	PALE	48 C	1636.0	1640.0	12.0	180.0			QL=4 ST=2 TYP=3	
1415	PALE	8 S	1637.0	1638.0	1.0	64.0			QL=2 ST=2 TYP=8	
6700	CUBA	31 ABS	1638.9	1640.5	5.3	8.0	4.0		QL=4 ST=2 TYP=3	
1415	SGMR	4 S/F	1645.0	1647.0	3.0	100.0			6R	
6700	CUBA	22 GRF	1646.0	1658.0	194.0	18.0	9.0		QL=4 ST=2 TYP=3	
1415	PALE	8 S	1652.0	1652.0		70.0			OOL	
410	PALE	8 S	1652.0	1652.0		64.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	1652.0	1652.0		60.0			QL=2 ST=2 TYP=3	
410	SGMR	8 S	1652.0	1652.0	1.0	90.0			QL=4 ST=3 TYP=3	
245	PALE	8 S	1700.0	1701.0	1.0	74.0			QL=4 ST=3 TYP=3	
2800	PENT	41 F	1730.0	1752.0	121.0	38.0			QL=2 ST=2 TYP=3	
1415	SGMR	4 S/F	1753.0	1757.0	8.0	110.0			QL=4 ST=2 TYP=3	
1415	PALE	4 S/F	1755.0	1757.0	3.0	130.0			QL=4 ST=2 TYP=3	
2695	PALE	8 S	1756.0	1756.0		28.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1957.0	1958.0	1.0	110.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1957.0	1958.0	3.0	110.0			QL=2 ST=2 TYP=3	
30	204	IZMI	44 NS	0600.0E						
	245	SVTO	43 NS	0752.0	0801.0	360.0D	110.0	40.0		QL=4 ST=2 TYP=1

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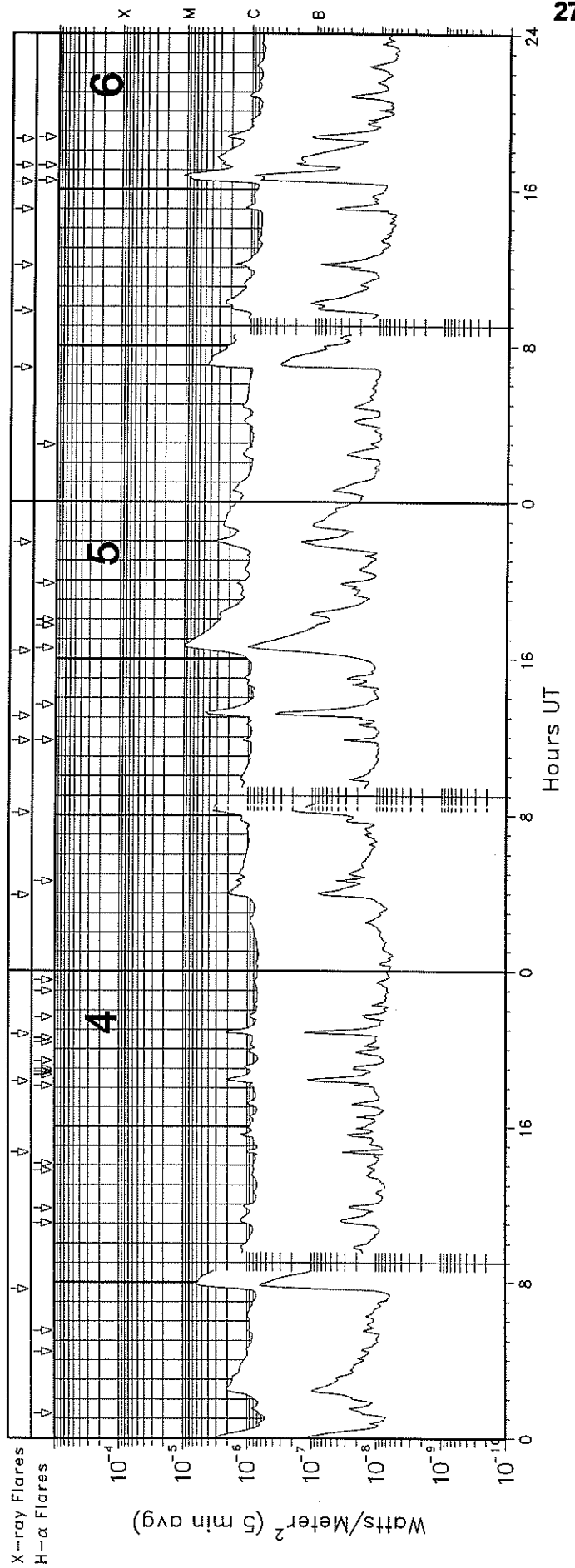
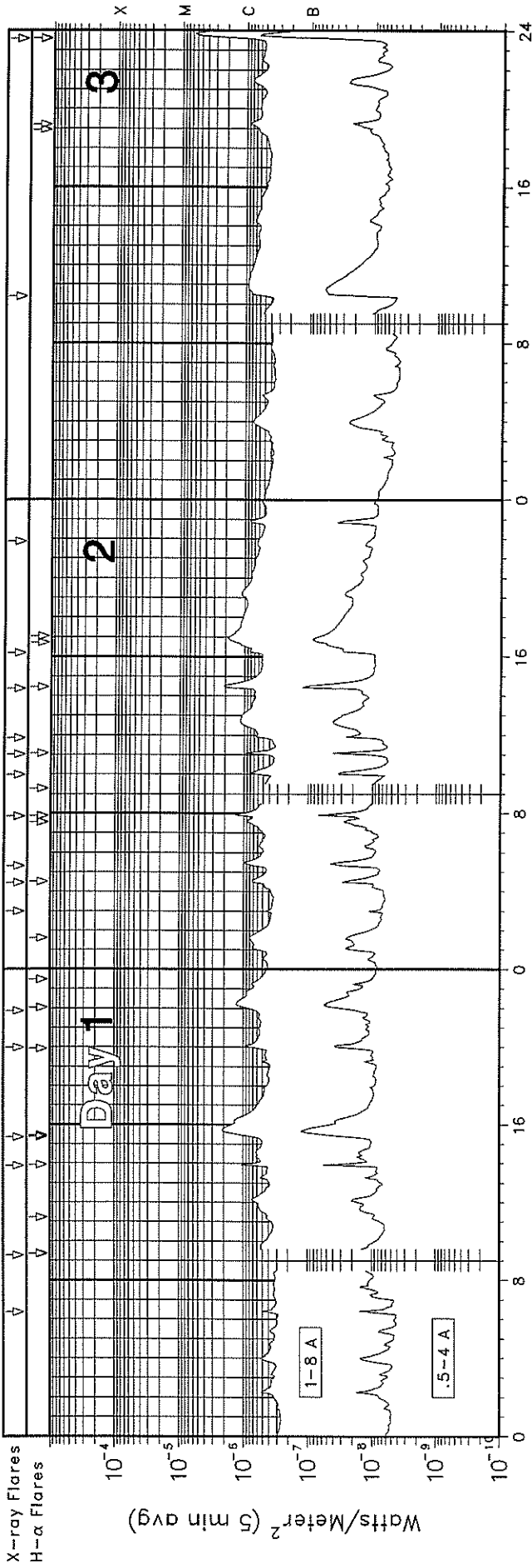
S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

APRIL 1998

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean	Int	Remarks
30	245	LEAR	43 NS	0800.0	0801.0	102.0	86.0			QL=4 ST=2 TYP=1
	33	UPIC	43 NS	0822.3		341.2				
	127	TORN	44 NS	0900.0E		300.0D		14.0		V=1
	245	SVTO	43 NS	1232.0	1338.0	66.0	130.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1236.0	1302.0	67.0	55.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		530.0D		12.0		
	280	CUBA	44 NS	1300.0E		530.0D		20.0		
	245	SGMR	43 NS	2039.0	2053.0	14.0	94.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0444.0	0444.0	U	170.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0444.0	0444.0	3.0	240.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0719.3	0719.4	0.2	73.0			
	204	IZMI	25 R	0754.5		77.5		60.0		
	3000	IZMI	20 GRF	0759.4	0806.2	56.8	4.0			
	33	UPIC	48 C	1056.0	1057.5	3.6				
	410	SGMR	4 S/F	1335.0	1338.0	3.0	24.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1335.0	1338.0	4.0	110.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1337.4	1338.0	1.0	10.0	5.0		8R
	235	CUBA	6 S	1337.5	1338.0	0.7	266.0			
	280	CUBA	6 S	1337.5	1338.0	0.7	197.0			
	33	UPIC	48 C	1337.5	1338.5	4.0				
	2800	PENT	1 S	1910.0	1912.0	15.0	6.0			
	245	PALE	49 GB	1911.0	1912.0	1.0	730.0			QL=4 ST=3 TYP=6
	245	SGMR	49 GB	1911.0	1912.0	3.0	630.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1911.0	1912.0	1.0	110.0			QL=4 ST=2 TYP=3
	6700	CUBA	3 S	1911.4	1912.5	9.4	7.0	3.0		6R
	280	CUBA	6 S	1911.5E	1912.0	0.7D	419.0			
	235	CUBA	6 S	1911.5	1912.0	0.7	469.0			
	410	PALE	8 S	1912.0	1912.0	U	110.0			QL=4 ST=3 TYP=3
	245	PALE	8 S	1914.0	1914.0	U	160.0			QL=4 ST=3 TYP=3
	245	PALE	8 S	2038.0	2039.0	2.0	62.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2052.0	2053.0	1.0	92.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2116.0	2120.0	75.0	121.0			
	6700	CUBA	3 S	2118.0	2121.2	10.2	209.0	15.0		6R
	2800	HIRA	29 PBI	2118.7	2122.0	50.0	90.0	7.0		0
	4995	PALE	8 S	2120.0	2121.0	2.0	260.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2120.0	2121.0	5.0	270.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2120.0	2121.0	5.0	120.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2120.0	2121.0	5.0	99.0			QL=2 ST=2 TYP=3
	8800	PALE	8 S	2121.0	2121.0	U	130.0			QL=2 ST=2 TYP=3
	2695	PALE	8 S	2121.0	2121.0	1.0	140.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2121.0	2121.0	U	76.0			QL=4 ST=2 TYP=3
	6700	CUBA	29 PBI	2128.2		28.8	13.0	6.0		2R
245	PALE	8 S	2147.0	2148.0	2.0	94.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2148.0	2148.0	1.0	84.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2208.0	2208.0	U	56.0			QL=4 ST=3 TYP=3	
410	PALE	8 S	2232.0	2232.0	1.0	51.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2232.0	2232.0	1.0	170.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2233.0	2233.0	U	130.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	2233.0	2233.0	U	45.0			QL=4 ST=2 TYP=3	
245	LEAR	49 GB	2259.0	2259.0	U	880.0			QL=4 ST=2 TYP=6	
245	PALE	49 GB	2259.0	2259.0	U	1200.0			QL=4 ST=2 TYP=6	
245	LEAR	8 S	2333.0	2333.0	1.0	54.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2333.0	2333.0	U	110.0			QL=4 ST=2 TYP=3	

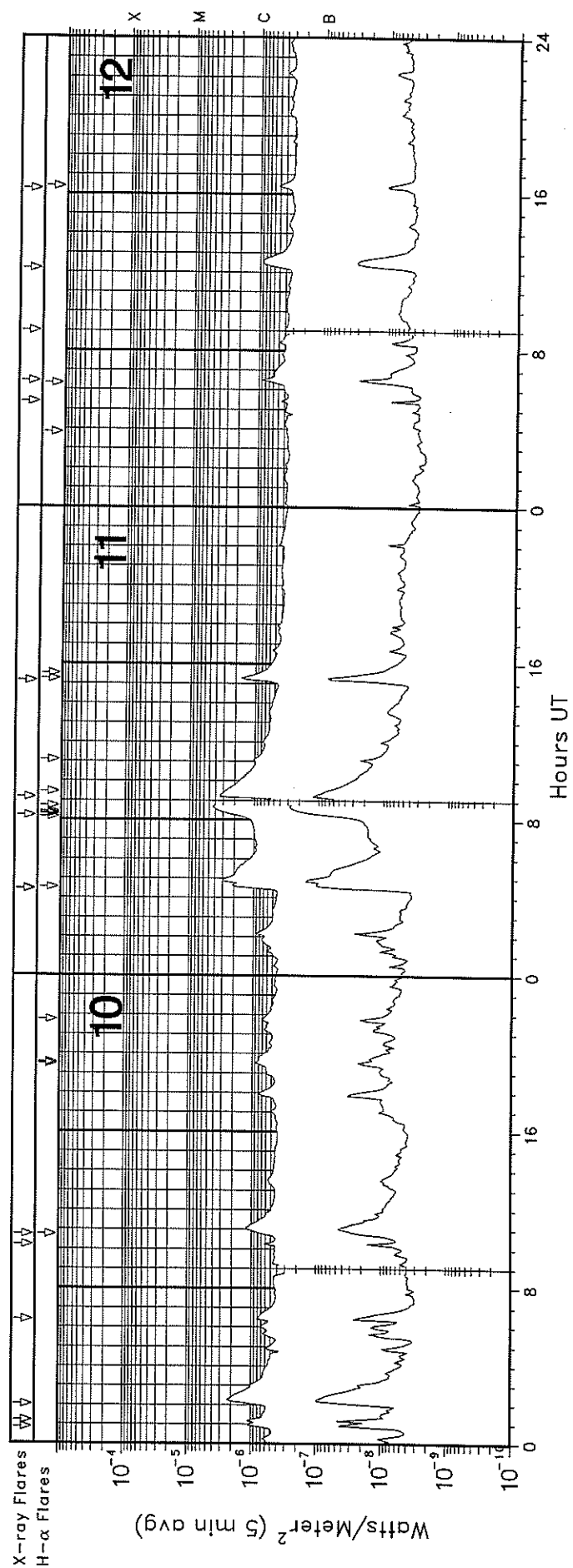
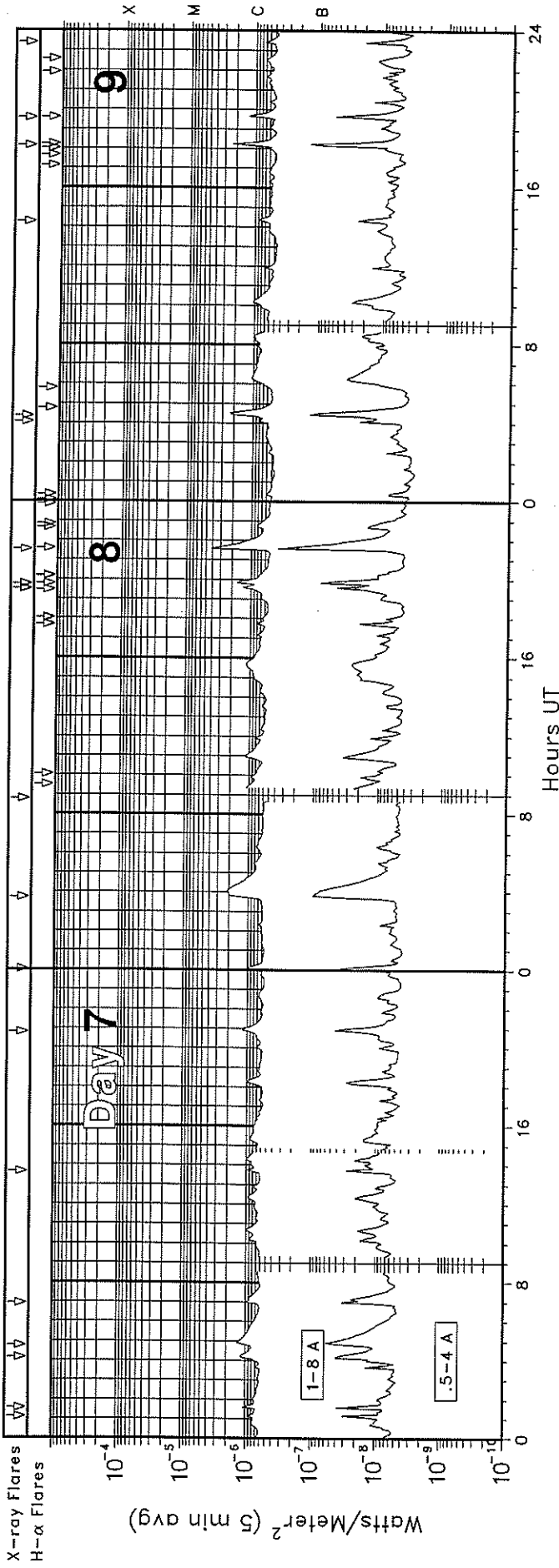
GOES X-RAY DETECTOR

April 1998



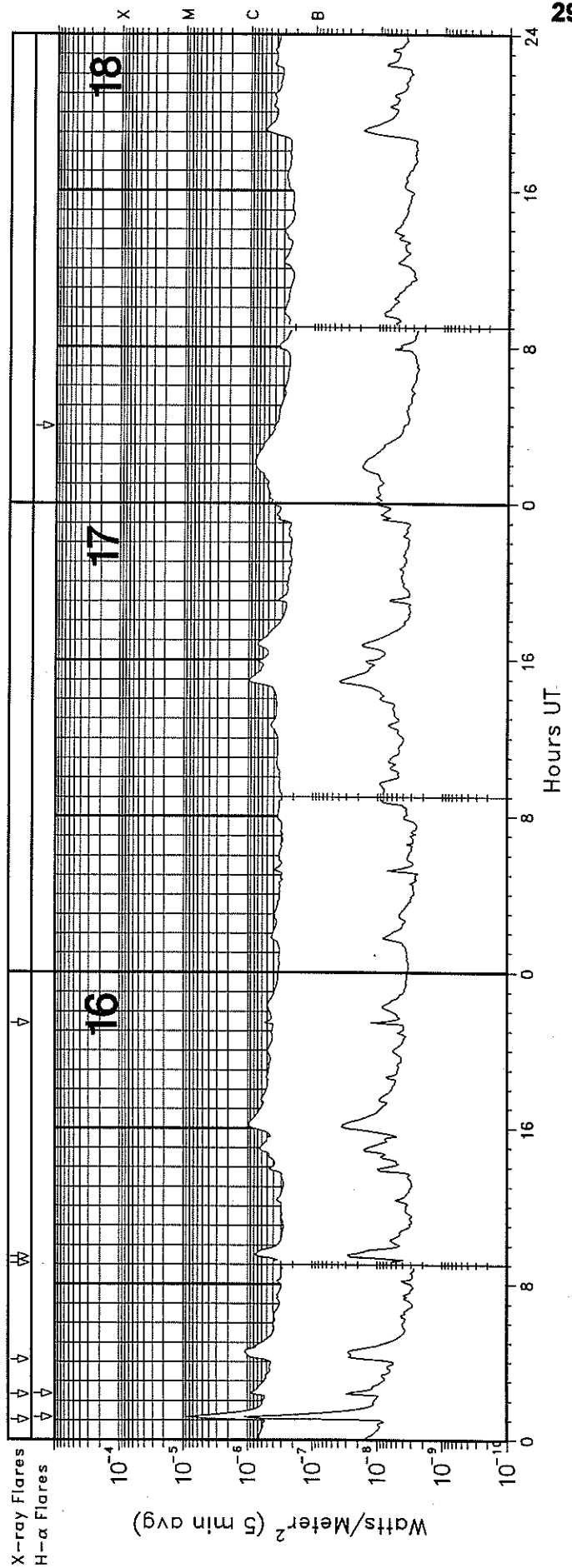
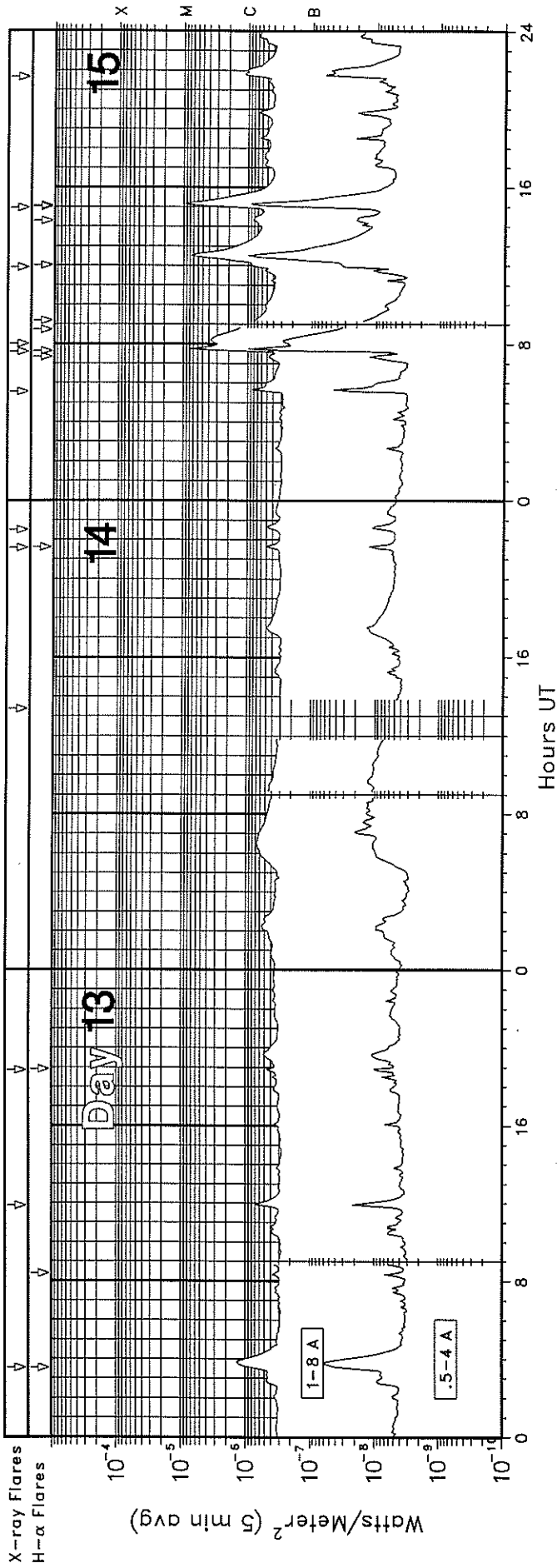
GOES X-RAY DETECTOR

April 1998



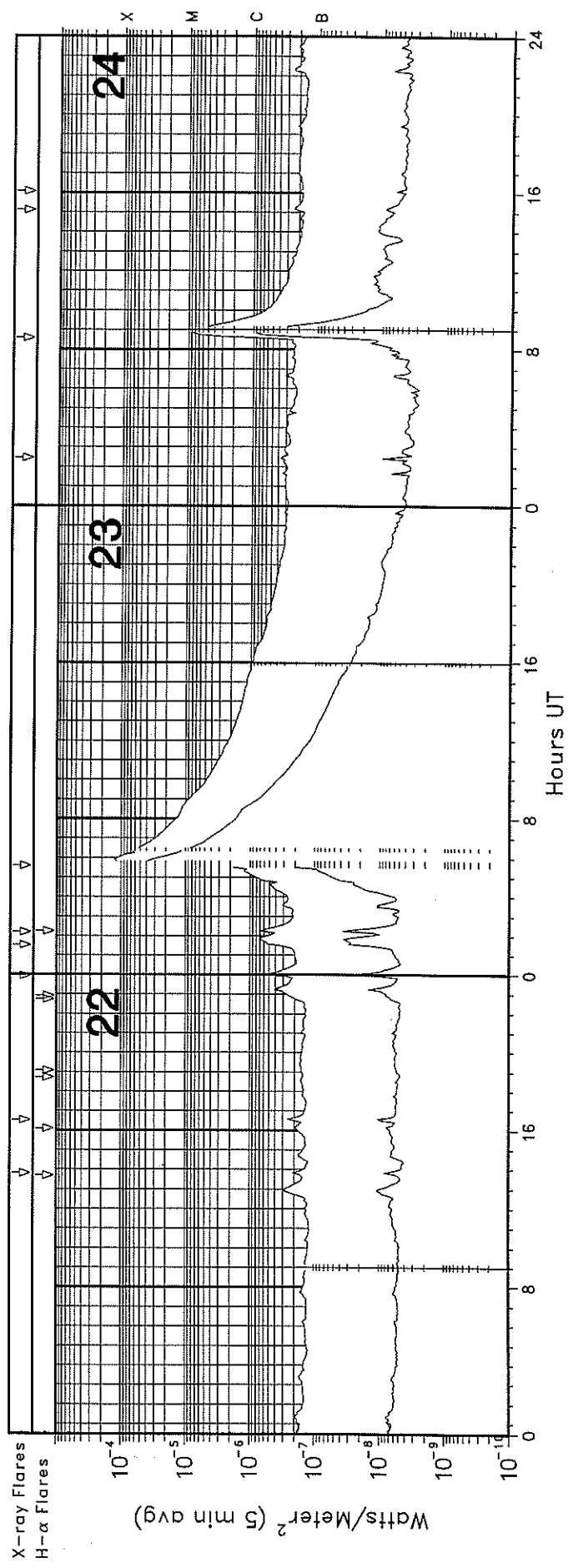
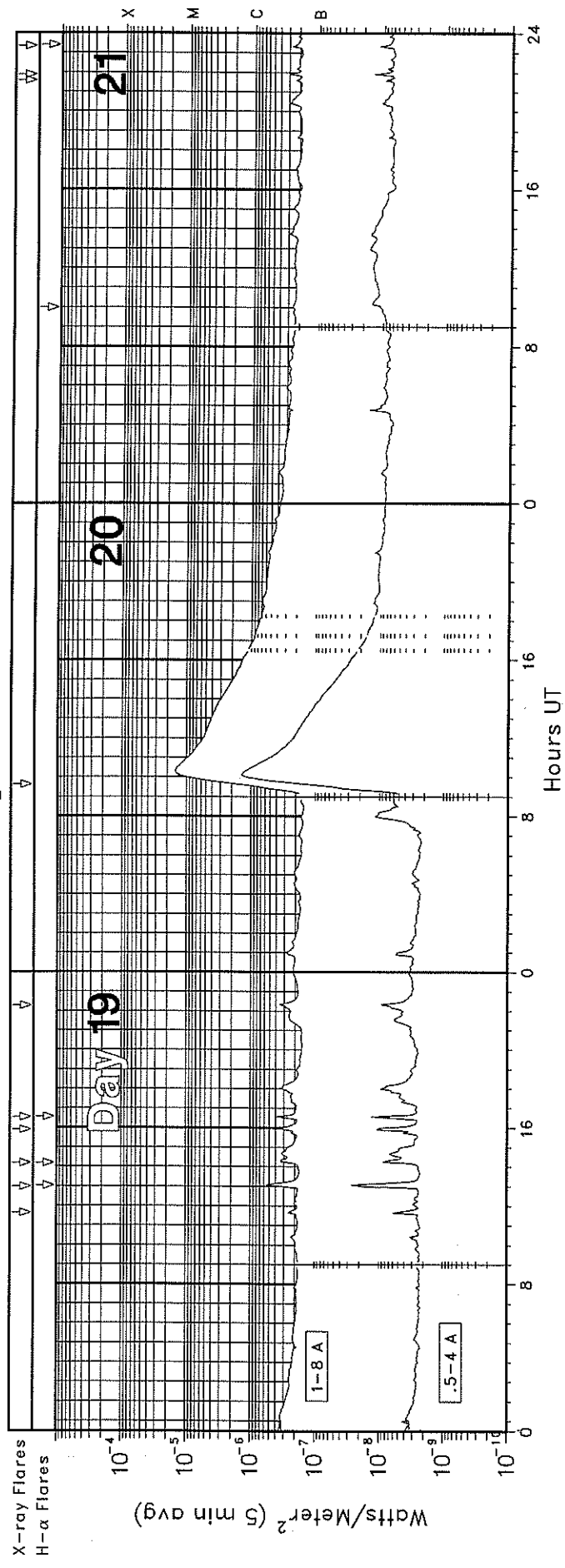
GOES X-RAY DETECTOR

April 1998



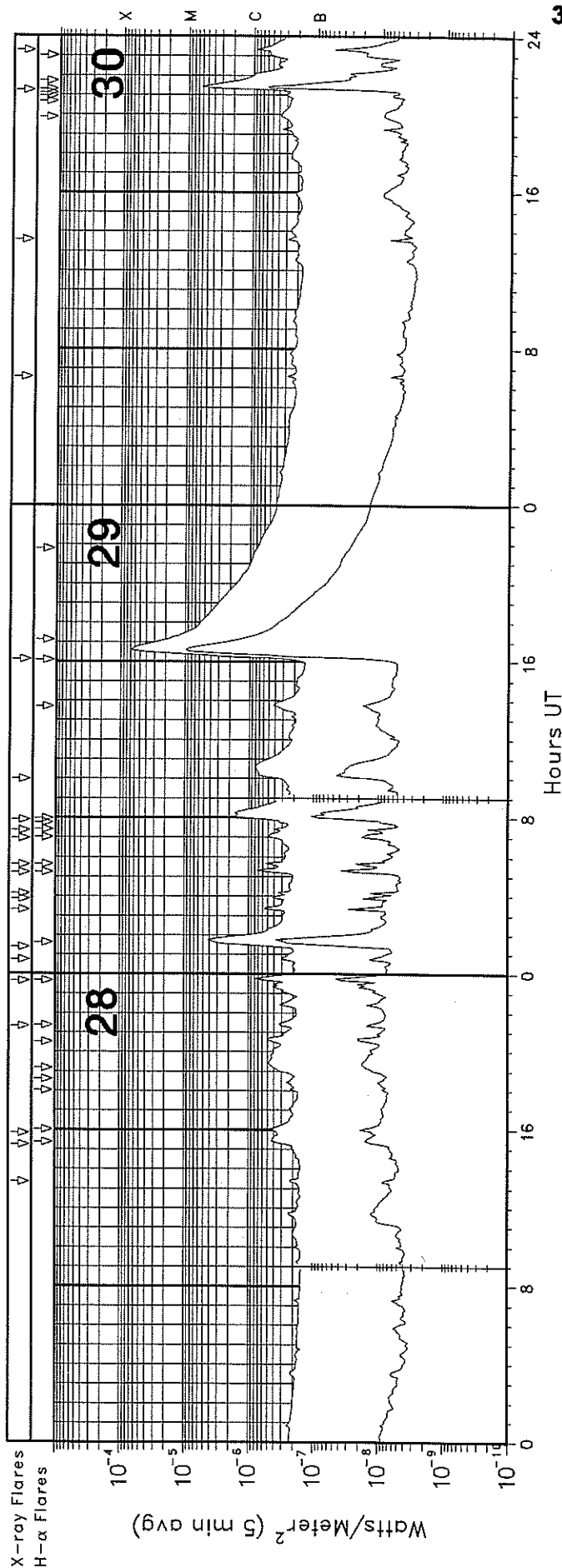
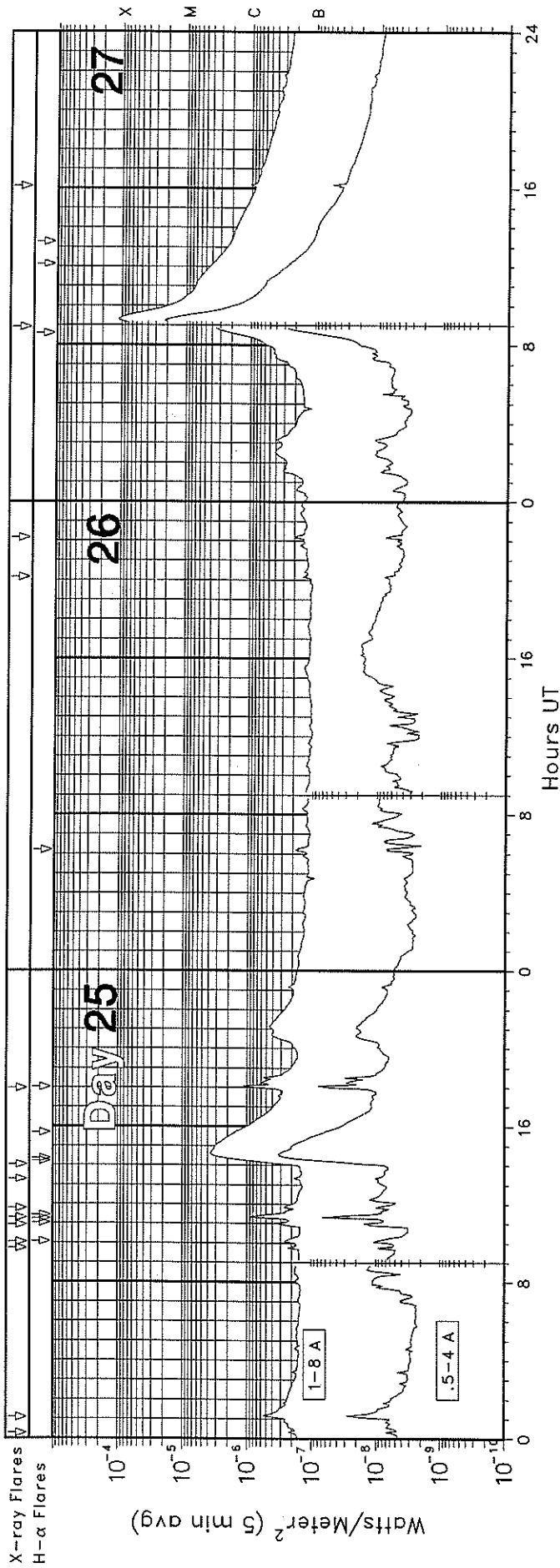
GOES X-RAY DETECTOR

April 1998



GOES X-RAY DETECTOR

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GOES SOLAR X-RAY FLARES
Preliminary Listing

April 1998

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	0621	0625	0628				B5.9		1.9E-04
01	0916	0923	0926	S23	E17	SF	C2.7 8190		8.2E-04
01	1353	1357	1400	S20	W69	SF	C1.4 8185		3.6E-04
01	1521	1544	1604	S23	E25	SF	C2.1 8190		4.0E-03
01	1959	2004	2010	S23	E25		C1.0 8190		5.7E-04
01	2152	2216	2311	S23	E22	SF	C1.2 8190		4.5E-03
02	0259	0302	0304				B5.1		1.3E-04
02	0428	0433	0443	S23	E07	SF	B7.9 8190		6.2E-04
02	0519	0530	0539				C1.0		1.0E-03
02	0752	0757	0802	S23	E05	SF	C1.4 8190		7.0E-04
02	0959	1004	1013				B9.0		5.9E-04
02	1102	1107	1111	S24	E31	SF	C1.0 8191		4.3E-04
02	1152	1247	1328				C1.1		5.1E-03
02	1422	1428	1439	S22	E24	SF	C2.3 8190		1.8E-03
02	1611	1659	1737	S23	E23	SF	C1.8 8190		6.5E-03
02	2152	2216	2311				C1.2		
03	1024	1054	1249				B9.2		7.0E-03
03	2335	2350	2402				C6.7 8190		6.8E-03
04	0739	0757	0834				C6.2		1.5E-02
04	1439	1443	1447				C1.2		4.9E-04
04	1819	1825	1833				C2.2		1.5E-03
04	2046	2053	2059				C2.6		1.4E-03
05	0355	0402	0412				C2.1		1.9E-03
05	0808	0820	0842				C3.3		5.8E-03
05	1148	1151	1155	S20	E35	SF	C1.1 8193		4.4E-04
05	1303	1315	1324				C4.9		4.3E-03
05	1622	1639	1710	S20	E84	SF	M1.0 8194		2.1E-02
05	2155	2200	2205				C3.6		1.9E-03
06	0652	0701	0743				C4.7		1.1E-02
06	0946	1014	1032				C2.5		5.5E-03
06	1206	1211	1216				C1.8		9.3E-04
06	1459	1504	1515				C1.2		1.1E-03
06	1623	1648	1655	S30	E78	2F	M1.1 8195		1.5E-02
06	1715	1741	1759	S18	E64		C3.4 8194		7.5E-03
06	1836	1846	1854	S29	E68	SF	C2.4 8195		2.3E-03
07	0107	0110	0112				C1.3		2.9E-04
07	0133	0138	0142				C1.2		5.5E-04
07	0409	0412	0422				C1.2		8.9E-04
07	0446	0459	0507				C1.3		1.4E-03
07	0657	0702	0706				C1.1		5.0E-04
07	1340	1347	1349				C1.1		4.6E-04
07	2048	2059	2105				C1.2		1.1E-03
08	0003	0009	0014				B9.8		5.7E-04
08	0344	0406	0428				C2.1		4.7E-03
08	0848	0858	0936				C1.1		2.8E-03
08	1933	1937	1941				C1.3 8195		5.9E-04
08	1947	1953	1957	S30	E38	SF	C1.9 8195		8.9E-04
08	2132	2138	2141	S24	E43	1F	C5.7 8194		1.7E-03
09	0404	0408	0414				B8.6		4.6E-04
09	0422	0430	0437				C2.4		1.7E-03
09	1417	1422	1431				B8.9		6.8E-04
09	1810	1815	1819	S29	E47	SF	C2.9 8198		9.9E-04
09	1935	1942	1948	S22	E05	SF	C1.3 8200		8.1E-04
09	2324	2327	2330				B8.5		2.6E-04
10	0051	0057	0109				C1.1		1.0E-03
10	0111	0114	0116				C1.5		3.8E-04

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
10	0201	0215	0241				C2.3		4.2E-03
10	0623	0627	0637				B9.1		6.4E-04
10	1013	1017	1019				B7.9		2.1E-04
10	1044	1102	1126	S26	W34	SF	C1.2 8199		2.4E-03
11	0426	0455	0531				C3.0		7.2E-03
11	0428	0443	0446				C2.1		1.7E-03
11	0813	0844	0923				C4.5		9.8E-03
11	0909	0912	0949				C3.6		6.8E-03
11	1508	1515	1524	S20	E06	SF	C1.8 8194		1.3E-03
12	0524	0527	0529				B5.7		1.3E-04
12	0626	0631	0635	S23	E25		B9.8 8202		4.5E-04
12	0900	0911	1132				B3.8		3.2E-03
12	1212	1236	1253				B9.0		1.8E-03
12	1616	1624	1634	S23	E19	SF	B5.4 8202		4.9E-04
13	0332	0350	0403	S24	E17	SF	C1.3 8202		2.1E-03
13	1152	1158	1204				B7.1		4.5E-04
13	1851	1855	1857	S25	W77	SF	B6.4 8199		1.8E-04
14	1323	1327	1334				B4.0		0.0E+00
14	2136	2140	2144	S30	W19	SF	B5.6 8198		2.3E-04
14	2230	2239	2247				B5.1		4.5E-04
15	0533	0541	0547				B9.0		5.4E-04
15	0737	0746	0754	N29	W15	SN	C8.8 8203		4.5E-03
15	0801	0812	0822				C3.7		4.4E-03
15	1155	1233	1242	N27	W19	SF	C8.2 8203		8.7E-03
15	1458	1511	1520	N31	W19	SF	C9.9 8203		7.6E-03
15	2140	2149	2210				C1.2 8200		1.8E-03
16	0102	0111	0117				C9.5		4.9E-03
16	0219	0223	0232	S22	W24	SF	C1.0 8202		6.6E-04
16	0406	0424	0445				C1.0		2.1E-03
16	0904	0908	0913				B4.5		2.1E-04
16	0923	0932	0948				B7.8		1.0E-03
16	2124	2127	2129				B6.9		1.6E-04
19	1139	1144	1147				B2.8		1.2E-04
19	1300	1305	1311	N21	W17	SF	B6.2 8205		3.0E-04
19	1412	1420	1427	N21	W18	SF	B3.6 8205		2.7E-04
19	1555	1600	1604				B4.2		1.8E-04
19	1633	1636	1639	N19	W19	SF	B4.1 8205		1.3E-04
19	2217	2220	2224				B3.8		1.4E-04
20	0938	1021	1118				M1.4		6.1E-02
21	2136	2139	2141				B2.8		7.1E-05
21	2153	2156	2158				B4.3		9.2E-05
21	2321	2324	2326	N03	W50	SF	B4.2 8205		8.5E-05
22	1348	1351	1354	N22	W63	SF	B2.3 8205		7.4E-05
22	1631	1635	1640				B2.7		1.3E-04
22	2356	2402	2408				B6.3		3.4E-04
23	0131	0152	0204				B7.2		1.1E-03
23	0212	0218	0225				B6.8		4.7E-04
23	0535	0555	0623				X1.2		2.4E-01
24	0226	0229	0231				B4.7		1.2E-04
24	0834	0852	0854				C8.9		5.6E-03
24	1506	1509	1524				B2.5		2.5E-04
24	1605	1608	1610				B2.6		6.2E-05

GOES SOLAR X-RAY FLARES
 Preliminary Listing

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 Apr 98

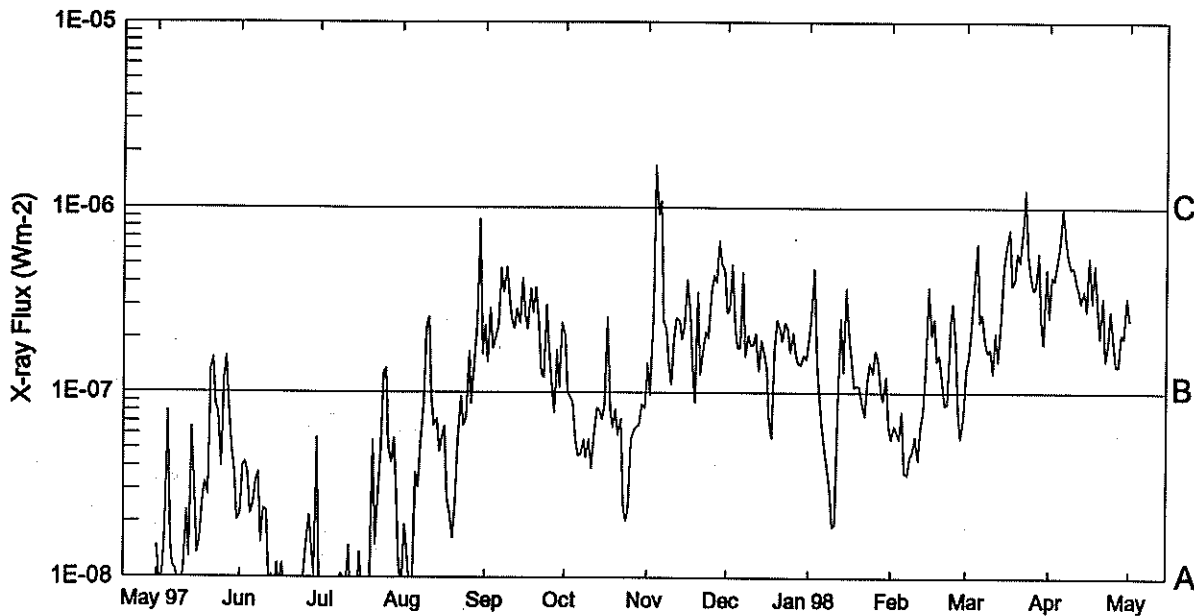
April 1998

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
25	0017	0020	0023				B2.5		7.9E-05
25	0104	0113	0118				B5.6		3.8E-04
25	0943	0946	0949				B2.7		7.8E-05
25	1003	1007	1013				B2.9		1.5E-04
25	1056	1059	1103				B5.1		1.4E-04
25	1118	1123	1127				C1.2		4.3E-04
25	1148	1152	1159				B2.7		1.6E-04
25	1318	1321	1324				B2.0		6.4E-05
25	1402	1439	1533	S19	E73	SF	C3.6	8210	1.3E-02
25	1758	1806	1809	S18	E72	1F	C1.5	8210	5.8E-04
26	2009	2012	2015				B1.3		4.4E-05
26	2209	2212	2214				B2.7		6.1E-05
27	0855	0920	0938	S16	E50		X1.0	8210	1.6E-01
27	1607	1611	1613				C1.2		3.6E-04
28	1321	1324	1327				B2.9		8.7E-05
28	1514	1527	1551	S27	W62	SF	B3.8	8212	8.1E-04
28	1550	1605	1618	S18	E32	SF	B4.0	8210	6.3E-04

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
28	2119	2124	2131	S17	E31	SF	B3.8	8210	2.3E-04
28	2339	2344	2352	S17	E32	SF	B8.3	8210	5.0E-04
29	0044	0049	0054				B3.2		1.8E-04
29	0124	0146	0156	S19	E27	1F	C4.3	8210	4.8E-03
29	0319	0323	0327				B7.6		2.7E-04
29	0353	0358	0402				B4.6		2.1E-04
29	0409	0413	0415				B3.9		1.2E-04
29	0513	0522	0525	S17	E29	SF	B7.7	8210	4.2E-04
29	0537	0540	0542	S19	E24	SF	B7.6	8210	1.8E-04
29	0658	0703	0713	S20	E24	SF	B5.1	8210	4.2E-04
29	0722	0726	0729	S17	E21	SF	B3.9	8210	1.5E-04
29	0754	0806	0827	S17	E23		C1.7	8210	2.6E-03
29	0959	1040	1116				B7.8		2.8E-03
29	1606	1637	1659	S18	E20		M6.8	8210	1.0E-01
30	0634	0638	0640				B3.2		9.6E-05
30	1335	1338	1341				B3.1		1.0E-04
30	2115	2125	2136	S21	E03	2N	C6.6	8210	5.0E-03
30	2317	2322	2327				B9.5	8210	4.9E-04

****EDITOR'S NOTE: Only GOES X-ray times now appear in this table, beginning with the July 1997 data. These data are from the NOAA Space Environment Center on-line archives (see <http://www.sec.noaa.gov>).

Preliminary GOES Satellite Daily X-Ray Background May 97 - Apr 98



Day	May 97	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan 98	Feb	Mar	Apr
1	A2.2	<A1.0	<A1.0	B2.3	B2.0	B1.4	B1.4	B2.7	B1.9	A5.6	B1.3	B2.6
2	A4.0	<A1.0	A1.9	B1.4	B1.0	A9.7	A9.7	B2.8	B2.6	A6.6	B1.5	B4.3
3	A4.2	<A1.0	A1.3	B2.8	A9.4	B2.6	B2.6	B4.9	B4.7	A6.1	B2.2	B4.1
4	A3.6	<A1.0	<A1.0	B1.7	A8.9	C1.6	C1.6	B2.2	B1.4	A5.5	B3.6	B5.2
5	A2.2	<A1.0	<A1.0	B2.0	A5.3	B9.1	B9.1	B1.7	A9.4	A7.9	B6.3	B6.6
6	A2.5	<A1.0	A3.6	B2.3	A4.5	C1.0	C1.0	B1.7	A6.5	A3.6	B2.4	C1.0
7	A3.3	<A1.0	A3.0	B4.7	A4.6	B2.4	B2.4	B4.4	A5.0	A3.5	B2.6	B6.6
8	A3.6	<A1.0	A5.2	B3.5	A5.5	B2.2	B2.2	B1.5	A3.8	A4.5	B1.9	B5.6
9	A1.5	A1.0	A8.8	B4.8	A4.4	B1.4	B1.4	B2.0	A2.9	A4.7	B1.6	B4.7
10	A2.3	A1.0	B2.3	B3.3	A5.5	B1.1	B1.1	B1.8	A1.8	A5.7	B1.7	B4.8
11	A2.2	<A1.0	B2.5	B2.4	A3.9	B2.0	B2.0	B1.8	A1.9	A4.3	B1.2	B4.1
12	<A1.0	A1.4	A9.5	B2.2	A5.8	B2.5	B2.5	B2.1	B1.1	A6.6	B2.1	B3.5
13	A1.0	<A1.0	A6.6	B2.8	A8.2	B2.4	B2.4	B1.3	B2.5	A7.9	B1.4	B3.1
14	<A1.0	<A1.0	A7.2	B2.4	A7.9	B1.9	B1.9	B1.9	B1.3	B1.4	B2.5	B3.6
15	A1.2	<A1.0	A4.7	B4.1	A7.1	B2.3	B2.3	B1.6	B3.6	B3.7	B4.8	B2.8
16	<A1.0	A1.3	A5.7	B2.6	A8.6	B4.1	B4.1	B1.3	B2.0	B2.0	B6.1	B5.4
17	A1.1	<A1.0	A6.5	B2.2	B2.5	B2.6	B2.6	A7.5	B1.5	B2.5	B7.6	B3.1
18	<A1.0	<A1.0	A2.7	B3.6	A8.0	B1.3	B1.3	A5.7	B1.0	B1.4	B3.8	B4.9
19	<A1.0	A1.0	A2.1	B2.7	A6.5	A8.9	A8.9	B1.7	B1.0	B1.6	B4.0	B3.0
20	<A1.0	<A1.0	A1.6	B3.7	A8.1	B3.5	B3.5	B2.4	B1.0	B1.1	B5.7	B2.0
21	<A1.0	A5.5	A2.4	B2.3	A5.8	B1.2	B1.2	B2.2	A8.6	A8.6	B5.1	B3.3
22	<A1.0	A1.5	A5.5	B1.2	A7.2	B1.7	B1.7	B1.9	A7.4	A8.6	B7.5	B1.5
23	<A1.0	A2.6	A9.5	B1.2	A2.4	B2.1	B2.1	B2.4	B1.1	B2.4	C1.2	B1.8
24	<A1.0	A5.0	A6.6	B2.9	A2.0	B2.0	B2.0	B2.2	B1.4	B3.0	B5.6	B2.8
25	<A1.0	B1.2	A7.2	B1.7	A2.3	B3.6	B3.6	B1.6	B1.2	B1.8	B4.3	B2.0
26	A1.4	B1.3	B1.6	B1.0	A5.5	B4.3	B4.3	B2.1	B1.7	A8.0	B3.6	B1.4
27	A2.1	A5.0	A8.7	A7.8	A6.3	B3.9	B3.9	B1.6	B1.5	A5.6	B3.8	B1.4
28	A1.4	A4.2	B1.4	B1.7	A6.5	B6.6	B6.6	B1.4	A9.9	A7.5	B5.6	B2.1
29	A1.0	A5.6	B2.3	B1.0	A6.7	B5.0	B5.0	B1.4	A9.1		B2.5	B2.0
30	A5.7	A2.7	B8.6	B2.4	A8.6	B4.6	B4.6	B1.6	B1.2		B1.8	B3.3
31		A1.1	B1.6		A8.2			B1.5	A6.6		B4.6	

ACTIVE PROMINENCES AND FILAMENTS

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Apr 98

APRIL 1998

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
09	DSF	2147U	1028U	S50	E31	04	12.5		04	0	0	E	RAMY		
14	DSF	2232U	1031U	N24	E50	04	18.8		04	0	0	E	RAMY		
14	DSF	2232U	1031U	N29	E43	04	18.3		05	0	0	E	RAMY		
14	DSF	2232U	1031U	N30	E13	04	16.0		05	0	0	E	RAMY		
15	DSF	1812	2039U	S16	W51	04	11.9	3	14	9	9	E	RAMY	8194	
15	EPL	2106	2146	S16	W70	04	10.6	3		9	9	E	HOLL	8200	
17	APR	0910E	1020D	S16	E90	04	24.2	1	05	9	9	V	KHAR		
17	APR	0940U	1000U	S22	E90	04	24.2	1	02	9	9	V	KHAR		
20	EPL	0931E	1000D	S43	W90	04	13.0	3		9	9	E	SVTO		
21	EPL	1723	1844	N30	W90	04	14.6	3		9	9	E	HOLL		
22	DSF	1333U	1547U	N22	E07	04	23.1	2	06	0	0	E	SVTO	8206	
23	LPS	1700	2301	S18	E90	04	30.6			9	9	E	HOLL		
23	LPS	1700	2130	S16	E90	04	30.5			9	9	E	RAMY		
24	LPS	0006E	0258	S19	E90	04	30.9			9	7	E	LEAR		
24	EPL	0450E	0940	S34	E90	05	1.4	3		9	9	E	LEAR		
24	BSL	0940	1035	S15	E90	05	1.2	1	02	9	9	V	KHAR		
25	DSD	1103	1142D	S11	E78	05	1.4	1	03	9	9	V	KHAR		
25	DSD	1129	1142D	S22	W24	04	23.7	1	01	9		V	KHAR		
26	DSD	0915	1025	S12	E61	05	1.0	1	04	9	9	V	KHAR		
27	LPS	0935E	1014	S19	E50	05	1.2			9	9	E	SVTO	8210	Flare Associated
27	DSD	0940	1020	S17	E48	05	1.0	1	01	9	9	V	KHAR		
28	DSD	1015U	1026	S11	E37	05	1.2	1	01	9	9	V	KHAR		
28	DSD	1039	1055D	S11	E37	05	1.2	1	01	9	9	V	KHAR		
28	DSF	1848	1907	S25	E30	05	1.1	3	05	0	0	E	HOLL	8210	
28	DSF	1851	1914U	S24	E31	05	1.2	3	05	9	9	E	RAMY	8210	
28	DSF	2238U	1051U	S12	E34	05	1.5	2	05	0	0	E	RAMY	8210	
28	DSF	2238U	1051U	S52	W33	04	26.1	2	06	0	0	E	RAMY		
29	LPS	1654	2025D	S17	E20	05	1.2			9	9	E	HOLL	8210	Flare Associated
30	ADF	0920E	0940U	S14	E16	05	1.6	1	05		9	V	KHAR		
30	DSD	0925	0956	S18	E12	05	1.3	1	01		9	V	KHAR		
30	DSD	1003U	1012	N31	E52	05	4.4	1	02	9	9	V	KHAR		
30	DSD	1022	1035	S18	E12	05	1.3	1	01	9	9	V	KHAR		
30	DSD	1138	1145	N31	E52	05	4.4	1	02		9	V	KHAR		

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

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

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

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

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

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

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

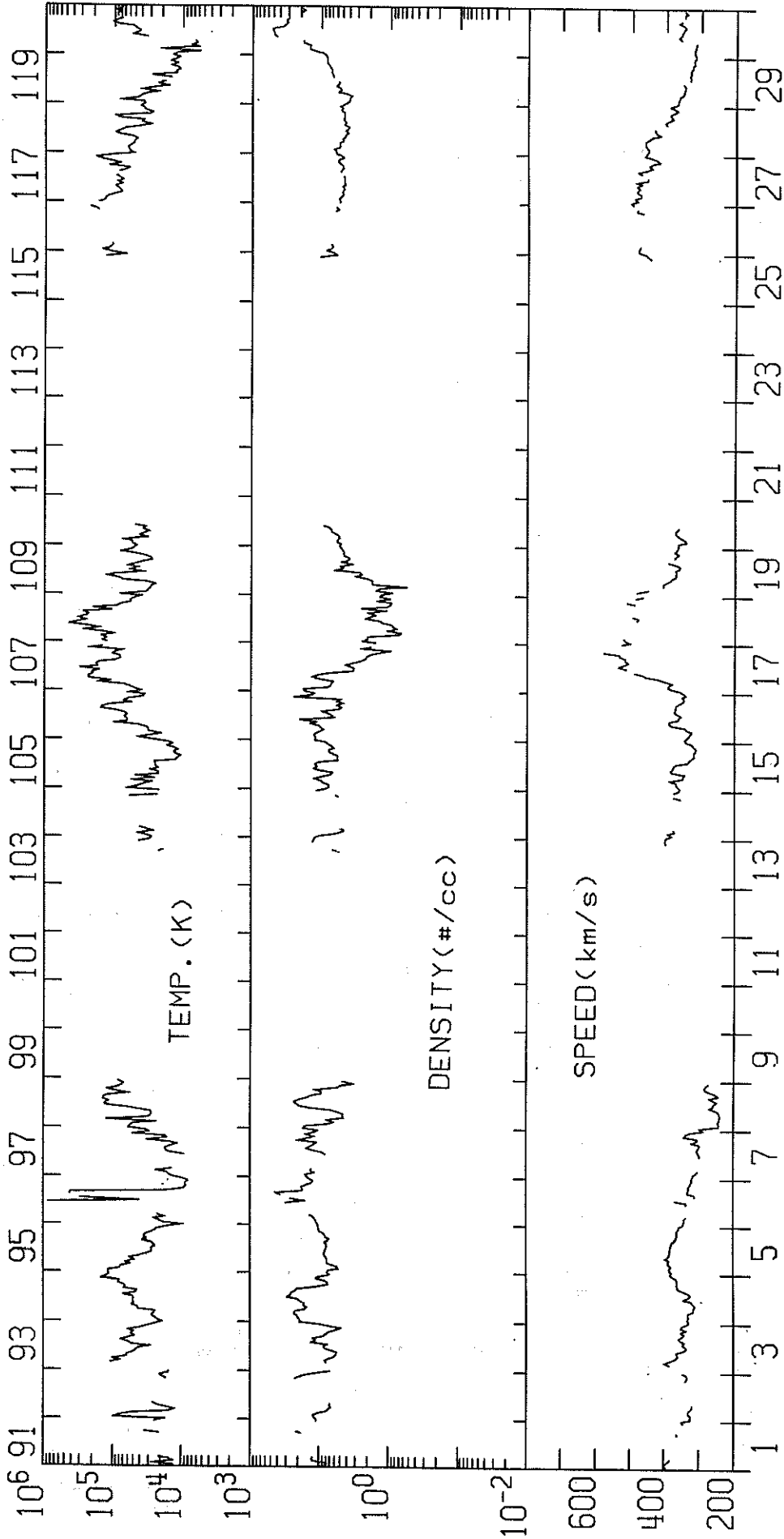
ABST = Abastumani
ATHN = Athens
BUCA = Bucharest
CATA = Catania

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

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

IMP 8 SOLAR WIND PLASMA
APRIL 1998

MIT/CSR IMP 8 PLASMA PARAMETERS



APR 1998

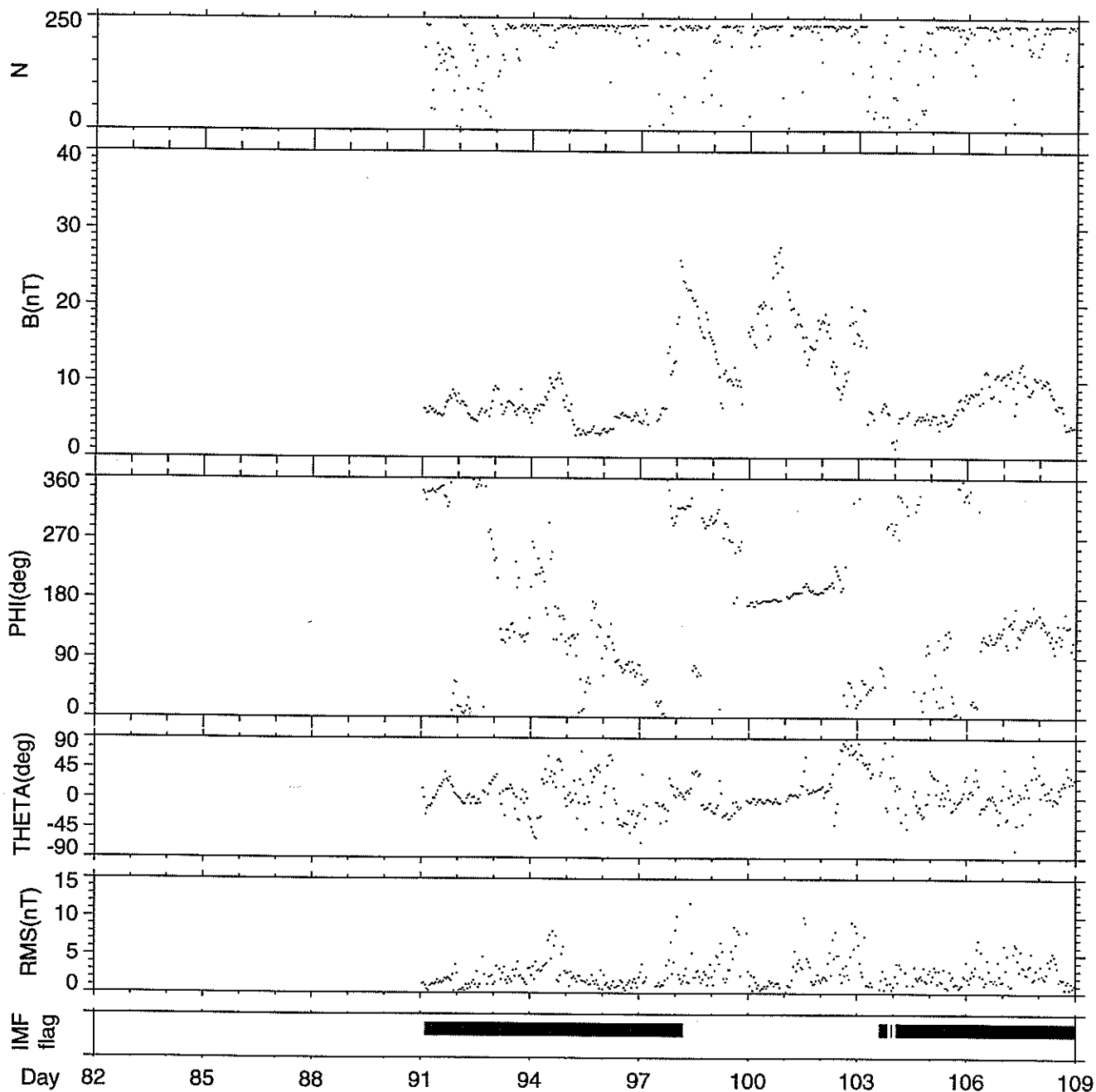
IMP 8 MIT ONE-HOUR AVERAGES

IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

(c) DOY 91 - 109

April 1 1998 - April 19 1998



Generation Date : Wed Sep 16 09:54:54 1998

NOTE: The IMF "flag" (black boxes at the bottom of the plots) indicates where the interplanetary magnetic field regions are according to a dynamic model of the location of the bow shock. At all other times IMP-8 is in the magnetosphere.

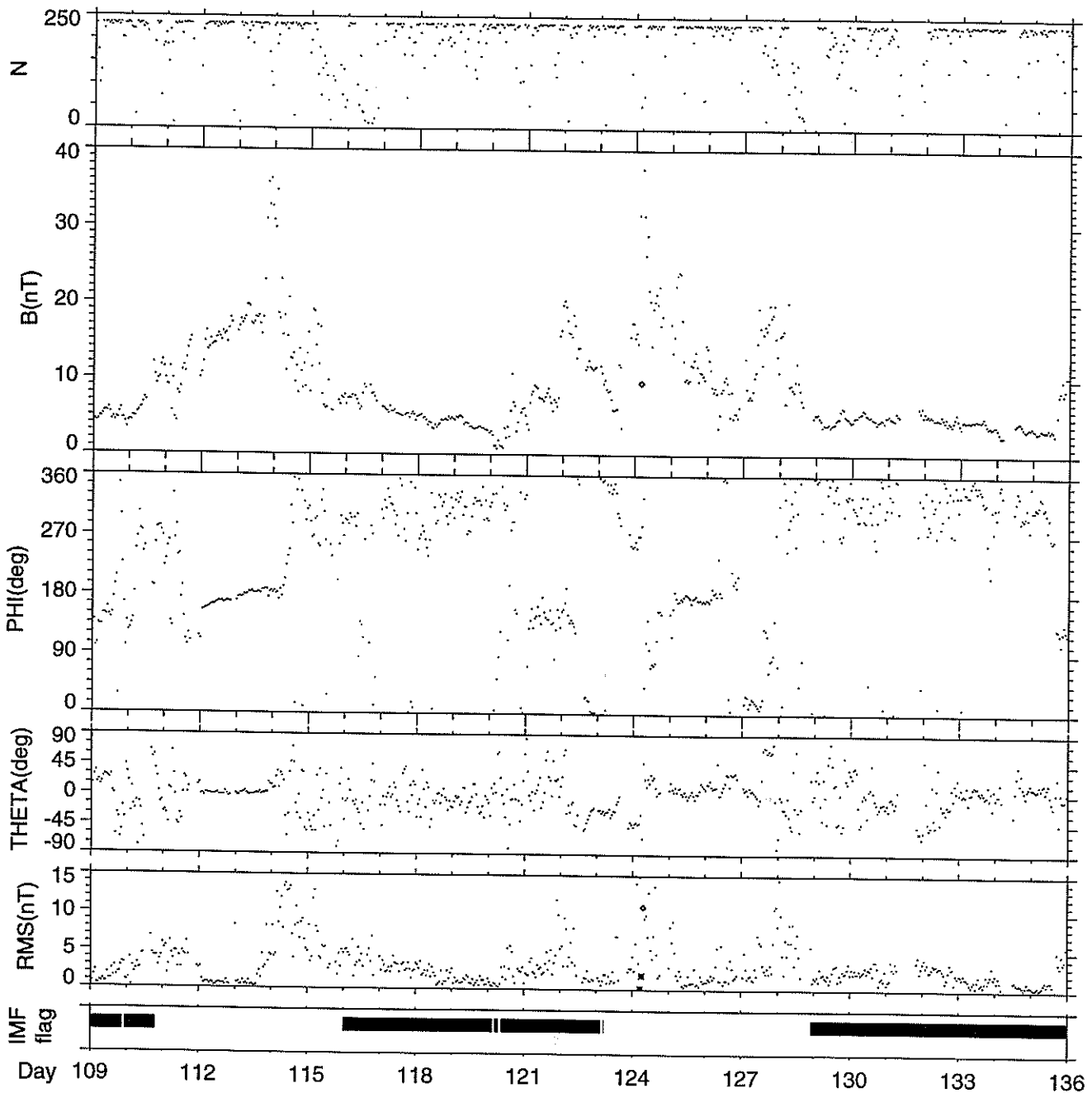
IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

(c) DOY 109 - 136

April 19 1998 -

May 16 1998



Generation Date : Wed Sep 16 09:55:23 1998

NOTE: The IMF "flag" (black boxes at the bottom of the plots) indicates where the interplanetary magnetic field regions are according to a dynamic model of the location of the bow shock. At all other times IMP-8 is in the magnetosphere.



WORLD DATA CENTER A

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The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."