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

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# **Solar-Geophysical Data comprehensive reports**

Data for September 1998

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**NATIONAL GEOPHYSICAL DATA CENTER**

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# SOLAR-GEOPHYSICAL DATA

Number 655

(Issued in Two Parts)

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SEPTEMBER 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								Region	Mo							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
		01	0000		0035			No Flare Patrol											
0001	URUM	01	0057	0106	0125	N20	W53	8319	08	28.1	28	SF			P		64	1.1	E
0002	LEAR	01	0145	0145	0151	S23	E40	8323	09	4.1	6	SF	3	E			21		
0003	LEAR	01	0151	0156	0158	N19	W55	8319	08	28.0	7	SF	3	E			18		
0004		01	0219	02167	0228	N20	W54	8319	08	28.1	9	SN					58	1.4	E
	URUM	01	0216E	0216	0224	N21	W54	8319	08	28.0	8D	SB		P			80	1.4	E
	LEAR	01	0219	0223	0232	N19	W55	8319	08	28.0	13	SF	3	E			37		
0005	LEAR	01	0448	0449	0452	S23	E39	8323	09	4.2	4	SF	3	E			15		
0006	LEAR	01	0453	0500	0504	S23	E39	8323	09	4.2	11	SF	3	E			15		
0007		01	0452	04531	0514	N31	W73	8307	08	26.5	22	1N					112		EF
	LEAR	01	0452	0453	0514	N32	W78	8307	08	26.1	22	1F	3	E			103		
	URUM	01	0454E	0454	0503D	N31	W70	8307	08	26.8	9D	1B		P			161		E
	SVTO	01	0454E	0454U	0511D	N31	W70	8307	08	26.8	17D	SF	2	E			71		F
0008	LEAR	01	0519	0521	0527	N19	W57	8319	08	28.0	8	SF	3	E			24		
0009	LEAR	01	0614	0616	0621	N19	W57	8319	08	28.0	7	SF	3	E			11		
0010	LEAR	01	0626	0627	0630	N19	W57	8319	08	28.0	4	SF	3	E			21		
0011	LEAR	01	0649	0704	0735	S23	E38	8323	09	4.2	46	SF	3	E			35		
0012	LEAR	01	0856	0900	0902	N19	W59	8319	08	28.0	6	SF	3	E			18		
0013		01	0916*	09319	0946	S22	E36	8323	09	4.1	30	SF					26		
	LEAR	01	0916	0940	0949	S23	E36	8323	09	4.1	33	SF	3	E			42		
	SVTO	01	0928	0931	0942	S21	E36	8323	09	4.1	14	SF	3	E			11		
0014		01	09295	0935	0942	N18	W60	8319	08	27.9	13	SF					24		
	LEAR	01	0929	0935	0944	N19	W59	8319	08	28.0	15	SF	3	E			31		
	SVTO	01	0934	0935	0940	N18	W62	8319	08	27.8	6	SF	3	E			16		
0015		01	1009	10484	1124	S21	E36	8323	09	4.2	75	SF					40		
	SVTO	01	1009	1052	1138	S21	E36	8323	09	4.2	89	SF	3	E			30		
	KANZ	01	1014E	1048	1056D	S21	E36	8323	09	4.2	42D	SF	2	C					
	RAMY	01	1054E	1054U	1110	S20	E37	8323	09	4.3	16D	SF	1	E			51		
0016	RAMY	01	1126E	1127U	1138	S21	E35	8323	09	4.1	12D	SF	2	E			19		
0017		01	1147	1148	1153	N18	W62	8319	08	27.9	6	SF					14		
	SVTO	01	1147	1148	1151	N18	W63	8319	08	27.8	4	SF	3	E			13		
	RAMY	01	1147	1148U	1155	N18	W62	8319	08	27.9	8	SF	2	E			16		
0018		01	12341	12353	1243	S20	E36	8323	09	4.3	9	SF					19		
	SVTO	01	1234	1238	1243	S20	E36	8323	09	4.3	9	SF	3	E			19		
	RAMY	01	1235	1235	1243	S19	E36	8323	09	4.3	8	SF	3	E			19		
0019		01	1411	14111	1416	N16	W65	8319	08	27.8	5	SF					23		
	SVTO	01	1411	1411	1415	N16	W67	8319	08	27.6	4	SF	3	E			15		
	HOLL	01	1411	1412	1416	N15	W63	8319	08	27.9	5	SF	3	E			31		
0020	SVTO	01	1434	1434	1439	N18	W65	8319	08	27.7	5	SF	3	E			15		
0021		01	1431*	15116	1543	S21	E34	8323	09	4.2	72	SF					15		
	SVTO	01	1431	1512	1552	S22	E32	8323	09	4.1	81	SF	3	E			15		
	HOLL	01	1439	1517	1540	S21	E36	8323	09	4.4	61	SF	3	E			19		
	RAMY	01	1454	1511	1537	S20	E34	8323	09	4.2	43	SF	3	E			10		
0022	HOLL	01	1548	1608	1629	N21	W65	8319	08	27.8	41	SF	3	E			51		
0023	HOLL	01	1630	1644	1704	N16	W62	8319	08	28.1	34	SF	3	E			91		

H $\alpha$  SOLAR FLARES

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Sep 98

SEPTEMBER 1998

Grp #	Sta	Day	Start (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)		
0024	HOLL	01	1807	1816	1834	N15	W64	8319	08	28.0	27	SF		3	E		88			
0025	HOLL	01	1856	1858	1905	N16	W65	8319	08	27.9	9	SF		3	E		63			
0026	HOLL	01	1940	1940	1943	N21	W67	8319	08	27.8	3	SF		3	E		16			
0027	HOLL	01	1958	2005	2014	S20	E33	8323	09	4.3	16	SF		3	E		10			
0028	HOLL	01	2013	2028	2038	N21	W67	8319	08	27.8	25	SF		3	E		31			
0029	HOLL	01	2107	2109	2113	S21	E31	8323	09	4.2	6	SF		3	E		18			
0030	HOLL	01	2136	2141	2151	N21	W68	8319	08	27.8	15	SF		3	E		23			
0031	HOLL	01	2147	2157	2214	S21	E32	8323	09	4.4	27	SF		3	E		24			
			01 2215		2220	No Flare Patrol														
			01 2234		2244	No Flare Patrol														
0032	HOLL	01	2245	2245	2249	S21	E31	8323	09	4.3	4	SF		3	E		40			
0033	HOLL	01	2306	2306	2310	S21	E32	8323	09	4.4	4	SF		3	E		14			
			01 2340		2352	No Flare Patrol														
			02 0007		0029	No Flare Patrol														
0034	SVTO	02	0632	0632	0639	S21	E24	8323	09	4.1	7	SF		2	E		13			
0035	SVTO	02	0829	0836	0851	S20	E25	8323	09	4.3	22	SF		3	E		13			
0036	SVTO	02	1304	1305	1308	S23	E22	8323	09	4.2	4	SF		4	E		21			
0037		02	15014	15051	1526	S21	E22	8323	09	4.3	25	SF					47			
	HOLL	02	1501	1505	1541	S21	E23	8323	09	4.4	40	SF		3	E		69			
	SVTO	02	1503	1506	1527	S22	E20	8323	09	4.2	24	SF		4	E		48			
	RAMY	02	1505	1505	1510	S20	E22	8323	09	4.3	5	SF		3	E		23			
0038	RAMY	02	1650	1705	1731	N17	W79	8319	08	27.8	41	SF		4	E		73		H	
			02 1735		1849	No Flare Patrol														
			02 1931		1940	No Flare Patrol														
			02 2008		2019	No Flare Patrol														
			02 2140		2203	No Flare Patrol														
			02 2244		2322	No Flare Patrol														
0039	URUM	03	0219	0223	0239	N19	W73	8319	08	28.6	20	SF			C		48		D	
0040	KANZ	03	0818E	0818U	0846	S27	E16	8323	09	4.6	28D	SF		2	C					
0041	KANZ	03	0854	0854	0858	N18	W81	8319	08	28.3	4	SF		2	C					
0042	SVTO	03	1158E	1200U	1206D	N16	W90	8319	08	27.8	8D	SF		3	E		34			
0043	SVTO	03	1304	1304	1402	S20	E08	8323	09	4.1	58	SF		3	E		21			
0044	HOLL	03	1340	1341	1349	S21	E10	8323	09	4.3	9	SF		3	E		35		H	
0045	SVTO	03	1420	1422	1427	N21	W90	8315	08	27.8	7	SF		3	E		18			
0046	SVTO	03	1439	1440	1444	S21	E08	8323	09	4.2	5	SF		3	E		26			
0047	SVTO	03	1445	1451	1457	S21	E14	8323	09	4.7	12	SF		3	E		27			
0048	SVTO	03	1516	1517	1534D	S20	E06	8323	09	4.1	18D	SF		3	E		64		F	
0049		03	1538	1606	1747	S22	E08	8323	09	4.3	129	SF					31		H	
	HOLL	03	1538	1606	1747	S21	E09	8323	09	4.3	129	SF		3	E		52		H	
	SVTO	03	1602E	1602U	1714D	S22	E06	8323	09	4.1	72D	SF		2	E		10			

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Sep 98

H $\alpha$  SOLAR FLARES

SEPTEMBER 1998

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)
0050	03	1541	1551	1646	N21 E88	8326	09	10.4	65	SF				69		
	HOLL	03	1541	1551	1646	N22 E87	8326	09	10.3	65	SF	3	E	94		
	SVTO	03	1548E	1548U	1714D	N20 E89	8326	09	10.5	86D	SF	2	E	44		
0051	HOLL	03	1807	1807	1812	S20 E06	8323	09	4.2	5	SF	3	E	11		
0052	HOLL	03	1831	1831	1835	S21 E05	8323	09	4.1	4	SF	3	E	12		
	03	1920		2320	No Flare Patrol											
	04	0951		1232	No Flare Patrol											
0053	SVTO	04	1312E	1315U	1326D	S18 E78	8328	09	10.5	14D	SF	3	E	15		
0054	SVTO	04	1454	1454	1459	N20 E83	8326	09	11.0	5	SF	3	E	48		
0055	HOLL	04	1700	1701	1704	S17 E73	8328	09	10.2	4	SF	3	E	39		
	04	1828		1848	No Flare Patrol											
	04	1853		1902	No Flare Patrol											
	04	1926		2035	No Flare Patrol											
	04	2053		2400	No Flare Patrol											
	05	0000		0302	No Flare Patrol											
	05	0402		0441	No Flare Patrol											
	05	0519		0524	No Flare Patrol											
0056	LEAR	05	0554	0555	0559	S22 W83	8323	08	30.0	5	SF	3	E	23		
0057	SVTO	05	0626	0626	0631	S22 W22	8323	09	3.6	5	SF	3	E	11		
0058	SVTO	05	0755E	0803U	0814	N21 E64	8326	09	10.2	19D	SF	3	E	53		
0059	SVTO	05	1258E	1301U	1311	N21 E60	8326	09	10.1	13D	SF	3	E	30	F	
0060	HOLL	05	1407	1425	1430	N14 E56	8326	09	9.8	23	SF	3	E	10		
0061	HOLL	05	1434	1452	1501	S23 W27	8323	09	3.5	27	SF	3	E	54		
0062	HOLL	05	1456	1456	1502	N13 E55	8326	09	9.8	6	SF	3	E	11		
0063	HOLL	05	1727	1731	1737	S19 W26	8323	09	3.7	10	SF	3	E	32		
0064	HOLL	05	1907	1907	1922	N16 E53	8329	09	9.8	15	SF	3	E	23		
0065	HOLL	05	2206	2208	2221	N22 E53	8326	09	10.0	15	SF	3	E	31		
0066	HOLL	06	0019	0019	0023	S22 W32	8323	09	3.5	4	SF	3	E	14		
0067	06	0019S	0024	0038	S18 W30	8323	09	3.7	19	SF				46	E	
	LEAR	06	0019	0024	0033	S18 W31	8323	09	3.6	14	SF	3	E	65	E	
	HOLL	06	0024	0024	0042	S19 W30	8323	09	3.7	18	SF	3	E	27		
	06	0141		0156	No Flare Patrol											
0068	LEAR	06	0211	0213	0226	S22 W35	8323	09	3.4	15	SN	4	E	61		
0069	LEAR	06	0322	0322	0326	S22 W23	8323	09	4.4	4	SF	4	E	11		
0070	LEAR	06	0330	0330	0345	S22 W23	8323	09	4.4	15	SF	4	E	11		
0071	LEAR	06	0359	0359	0404	S18 W33	8323	09	3.6	5	SF	4	E	27		
0072	LEAR	06	0456	0456	0506	S21 W36	8323	09	3.4	10	SF	3	E	13		
0073	SVTO	06	1100	1107	1120	S22 W40	8323	09	3.4	20	SF	3	E	48	H	
0074	SVTO	06	1113	1119	1133	S29 W04	8325	09	6.1	20	SF	3	E	70		
0075	06	1559I	1603	1622	N22 E42	8326	09	9.9	23	SF				26		
	HOLL	06	1559	1603	1622	N22 E44	8326	09	10.0	23	SF	3	E	33		
	SVTO	06	1600	1611U	1623	N22 E40	8326	09	9.7	23	SF	2	E	19		

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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)		
0076	HOLL	06	1915	1917	1922	N23	E47	8326	09 10.4	7	SF		3	E		12			
0077	HOLL	06	1954	1955	2016	N23	E46	8326	09 10.4	22	SF		3	E		12			
0078	HOLL	06	2036	2037	2051	S14	E47	8328	09 10.4	15	SF		3	E		34			
0079	HOLL	06	2100	2101	2107	N23	E42	8326	09 10.1	7	SF		3	E		17			
			07 0116		0123	No Flare Patrol													
			07 0206		0509	No Flare Patrol													
0080		07	1423	1423	1426	S18	E38	8328	09 10.5	3	SF					26			
	HOLL	07	1423	1423	1426	S17	E38	8328	09 10.5	3	SF		3	E		35			
	SVTO	07	1423	1423U	1439D	S18	E38	8328	09 10.5	16D	SF		2	E		16			
0081		07	1608	1611	1614	S24	W46	8323	09 4.1	6	SF					20			
	SVTO	07	1608	1611	1619D	S24	W47	8323	09 4.0	11D	SF		2	E		28			
	HOLL	07	1609	1612	1614	S24	W46	8323	09 4.1	5	SF		3	E		13			
0082	HOLL	07	1919	1920	1925	S17	E36	8328	09 10.5	6	SF		3	E		50			
0083	HOLL	08	0005	0005	0008	S19	W55	8323	09 3.8	3	SF		3	E		15			
			08 0104		0223	No Flare Patrol													
			08 0450		0458	No Flare Patrol													
			08 0949		0959	No Flare Patrol													
0084	KHAR	08	1039		1147	N20	E18	8326	09 9.8	68	1N		2	V				EL	
			08 1121		1137	No Flare Patrol													
			08 1216		1300	No Flare Patrol													
0085	HOLL	08	1357	1359	1405	N26	E63	8331	09 13.5	8	SF		3	E		30			
0086	HOLL	08	1557	1559	1613	N14	E14	8329	09 9.7	16	SF		3	E		15		F	
0087	HOLL	08	1659	1659	1702	N21	E18	8326	09 10.1	3	SF		3	E		16			
0088	HOLL	08	1714	1715	1717	S19	W59	8323	09 4.2	3	SF		3	E		14			
			08 2145		2258	No Flare Patrol													
0089	LEAR	08	2315	2316	2319	S22	W60	8323	09 4.3	4	SF		3	E		21			
0090	HOLL	09	0010	0010	0019	S22	W60	8323	09 4.4	9	SF		3	E		19			
			09 0451		0556	No Flare Patrol													
0091	LEAR	09	0758	0759	0805	S16	E11	8328	09 10.2	7	SF		3	E		18			
0092	LEAR	09	0807	0813	0821	N28	E51	8331	09 13.3	14	SF		3	E		25			
			09 1321		1334	No Flare Patrol													
0093		09	1631	1635	1638	S15	E08	8328	09 10.3	7	SF					18		H	
	KANZ	09	1631	1635	1639	S15	E08	8328	09 10.3	8	SF		2	C					
	RAMY	09	1635	1635	1638	S15	E08	8328	09 10.3	3	SF		4	E		18		H	
0094	HOLL	09	1734	1737	1806	N25	E47	8331	09 13.4	32	1F		3	E		131			
0095	HOLL	09	1807	1807	1817	N26	E46	8331	09 13.3	10	SF		3	E		25			
0096	HOLL	09	1818	1819	1824	N12	W01	8329	09 9.7	6	SF		3	E		19			
0097	HOLL	09	2007	2009	2014	N13	W03	8329	09 9.6	7	SF		3	E		19			
0098	HOLL	09	2042	2107	2117	N22	E43	8331	09 13.2	35	SF		3	E		40			
0099	HOLL	09	2117	2129	2133	N27	E45	8331	09 13.4	16	SF		3	E		18			



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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	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)	
		09 2119		2127		No Flare Patrol								
0100	HOLL	09 2133	2138	2146	N22	E43 8331	09 13.2	13	SF	3	E	53		
		09 2210		2230		No Flare Patrol								
		09 2237		2253		No Flare Patrol								
		09 2313		2318		No Flare Patrol								
		09 2349		2400		No Flare Patrol								
		10 0000		0004		No Flare Patrol								
		10 0052		0105		No Flare Patrol								
		10 0120		0145		No Flare Patrol								
		10 0203		0220		No Flare Patrol								
0101		10 0230*	03021	0332	N22	W02 8326	09 9.9	62	1F			346	6.8	E
	URUM	10 0230	0302	0340	N21	E01 8326	09 10.2	70	2F			643	6.8	E
	LEAR	10 0259	0303	0323	N22	W05 8326	09 9.7	24	SF	3	E	48		
		10 0541		0604		No Flare Patrol								
0102		10 15462	15511	1600	N10	W38 8333	09 7.8	14	SF			14		
	RAMY	10 1546	1552	1602	N10	W39 8333	09 7.7	16	SF	4	E	14		
	HOLL	10 1548	1551	1559	N11	W36 8333	09 7.9	11	SF	3	E	13		
0103		10 16333	16361	1647	N13	W12 8329	09 9.8	14	SF			34		
	RAMY	10 1633	1637	1653	N12	W14 8329	09 9.6	20	SF	4	E	42		
	KANZ	10 1636	1636	1648	N13	W10 8329	09 9.9	12	SF	2	C			
	HOLL	10 1636	1637	1641	N13	W11 8329	09 9.9	5	SF	3	E	25		
0104	RAMY	10 1808	1808	1823	S17	W02 8328	09 10.6	15	SF	4	E	10		
0105		10 2133E	2136	2146	S24	W90 8323	09 3.9	13D	SF			54		
	HOLL	10 2133E	2136	2145	S23	W90 8323	09 4.0	12D	SF	2	E	54		
	RAMY	10 2135E	2136U	2147	S25	W90 8323	09 3.9	12D	SF	3	E	54		
0106	HOLL	10 2159E	2208	2223	N11	W43 8333	09 7.7	24D	SF	3	E	19		F
0107	HOLL	10 2341	2341	2345D	N11	W45 8333	09 7.6	4D	SF	2	E	14		
		10 2346		2400		No Flare Patrol								
		11 0017		0022		No Flare Patrol								
		11 0032		0110		No Flare Patrol								
0108	LEAR	11 0435	0436	0450	N12	W47 8333	09 7.6	15	SF	3	E	39		
0109		11 0509	0532*	0605	N10	W44 8333	09 7.9	56	SF			42		
	LEAR	11 0509	0532	0605	N11	W43 8333	09 8.0	56	SF	3	E	57		
	SVTO	11 0512E	0542	0605	N10	W44 8333	09 7.9	53D	SF	3	E	27		
0110	KANZ	11 0637	0637	0645	N13	W22 8329	09 9.6	8	SF	2	C			
0111	KANZ	11 0645	0649	0657	N08	W17 8329	09 10.0	12	SF	2	C			
0112		11 08223	08223	0830	N14	W19 8329	09 9.9	8	SF			11		F
	SVTO	11 0822	0822	0827	N14	W19 8329	09 9.9	5	SF	3	E	11		F
	KANZ	11 0825	0825	0833	N14	W19 8329	09 9.9	8	SF	2	C			
0113	SVTO	11 0858	0859	0902	N13	W25 8329	09 9.5	4	SF	3	E	11		
0114	KHAR	11 0930	0940	1025	N24	W17 8326	09 10.1	55	1N	2	V			E
0115		11 1054	10563	1114	N23	W14 8329	09 10.4	20	1N			41		EFH
	SVTO	11 1054	1056	1111	N20	W14 8329	09 10.4	17	SF	3	E	41		F
	KHAR	11 1054	1059	1118	N26	W15 8329	09 10.3	24	1N	2	V			HE
0116	SVTO	11 1134	1146	1157	N11	W48 8333	09 7.9	23	SF	3	E	15		
0117	SVTO	11 1300	1302	1312	N10	W50 8333	09 7.8	12	SF	3	E	21		F
0118	SVTO	11 1335	1335	1339	N10	W51 8333	09 7.7	4	SF	3	E	14		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0119	HOLL	11	1400	1423	1429	N12	W53	8333	09	7.6	29	SF		3	E		29			
0120		11	1501*	1524	1542	N10	W52	8333	09	7.7	41	SF					54		F	
	HOLL	11	1501	1524	1549	N10	W52	8333	09	7.7	48	SF		3	E		77			
	SVTO	11	1523	1524	1535	N11	W52	8333	09	7.7	12	SF		3	E		30		F	
0121		11	15542	16022	1626	N10	W51	8333	09	7.8	32	1B					166			
	HOLL	11	1554	1602	1638	N11	W51	8333	09	7.8	44	1B		3	E		209			
	SVTO	11	1556	1604	1615	N10	W51	8333	09	7.8	19	1N		3	E		122			
0122	RAMY	11	1835	1836	1840	N28	W21	8327	09	10.1	5	SF		3	E		18			
0123	HOLL	11	2026	2030	2034	N11	W56	8333	09	7.6	8	SF		3	E		31			
0124	HOLL	11	2043	2050	2052	N11	W53	8333	09	7.9	9	SF		3	E		25			
0125	HOLL	11	2106	2110	2125	N11	W52	8333	09	8.0	19	SF		3	E		40			
0126		12	0011	00121	0020	N11	W55	8333	09	7.9	9	SF					30			
	HOLL	12	0011	0012	0022	N11	W56	8333	09	7.8	11	SF		3	E		31			
	LEAR	12	0011	0013	0019	N11	W54	8333	09	7.9	8	SF		3	E		29			
0127	LEAR	12	0028	0030	0033	N13	W54	8333	09	7.9	5	SF		3	E		15			
0128	LEAR	12	0138	0139	0150	N13	W36	8329	09	9.3	12	SF		3	E		28			
0129	LEAR	12	0142	0143	0146	N11	W55	8333	09	7.9	4	SF		3	E		22			
0130	URUM	12	0446	0449	0501	N12	W57	8333	09	7.9	15	SB			C		48	0.9	D	
0131	KHAR	12	1022		1040U	N12	W60	8333	09	7.9	18U	SN		2	V					EH
		12	1220		1230	No Flare Patrol														
0132	RAMY	12	1252E	1253	1308	N25	E07	8331	09	13.1	16D	SF		2	E		19			F
0133	HOLL	12	1420	1424	1432	N25	E07	8331	09	13.1	12	SF		3	E		14			
0134	HOLL	12	1552	1552	1604	N09	W64	8333	09	7.8	12	SF		3	E		16			
0135	HOLL	12	1853	1901	1903	N26	E06	8331	09	13.2	10	SF		3	E		13			
0136	HOLL	12	2028	2033	2053	N20	W38	8326	09	9.9	25	SF		3	E		52			F
0137		13	08466	09023	1002	N13	W51	8329	09	9.5	76	1F					128			F
	LEAR	13	0846	0902	0958D	N14	W51	8329	09	9.5	72D	1F		3	E		156			
	SVTO	13	0852	0905	1002	N12	W51	8329	09	9.5	70	SF		3	E		99			F
0138	KHAR	13	0850E		0950	N28	W53		09	9.2	60D	1N		2	V					EL
0139	RAMY	13	1224	1229	1245	N10	W55	8329	09	9.4	21	SF		3	E		32			
0140		13	12592	1303	1328	N20	W50	8326	09	9.7	29	SF					54			FS
	RAMY	13	1259	1303	1329	N21	W49	8326	09	9.8	30	SF		3	E		49			FS
	SVTO	13	1301	1303U	1327	N20	W51	8326	09	9.6	26	SF		3	E		58			
0141		13	1403*	14171	1428	N12	W76	8333	09	7.8	25	SF					20			
	RAMY	13	1403	1417	1428	N11	W76	8333	09	7.9	25	SF		3	E		22			
	HOLL	13	1414	1418	1428	N12	W76	8333	09	7.9	14	SF		3	E		17			
0142	HOLL	13	1819	1820	1836	N11	W80	8333	09	7.7	17	SF		3	E		49			
0143	LEAR	14	0448	0451	0458	N22	W58	8326	09	9.7	10	SF		3	E		30			
0144	LEAR	14	0937	0939	0945	S23	E51	8335	09	18.3	8	SF		3	E		86			
0145	SVTO	14	0937	0941	0946	S21	E42	8335	09	17.6	9	SF		3	E		65			H

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	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)		
0146	14	10472	10491	1052	S22 E42	8335	09 17.7	5	SF					21		H	
	SVTO	14 1047	1050	1052	S21 E41	8335	09 17.6	5	SF		3	E		21		H	
	KANZ	14 1049	1049	1053D	S23 E42	8335	09 17.7	4D	SF		2	C					
0147	RAMY	14 1333	1335	1339	S22 E41	8335	09 17.7	6	SF		3	E			13		
0148	HOLL	14 2347	2348	2352	S20 E36	8335	09 17.7	5	SF		3	E			18		
0149	LEAR	15 0435	0436	0441	S20 E33	8335	09 17.7	6	SF		3	E			38		
0150	LEAR	15 0438	0444	0452	N24 W24	8331	09 13.3	14	SF		3	E			14		
		15 2135		2224	No Flare Patrol												
		16 0955		1033	No Flare Patrol												
		16 1133		1137	No Flare Patrol												
		16 2003		2025	No Flare Patrol												
		16 2145		2309	No Flare Patrol												
		17 1157		1227	No Flare Patrol												
		17 1303		1307	No Flare Patrol												
		17 1315		1353	No Flare Patrol												
		17 1627		1749	No Flare Patrol												
17 2048		2124	No Flare Patrol														
0151	KHAR	18 0930		0945	S17 E36	8339	09 21.1	15	SF		2	V				DL	
0152	KHAR	18 1054		1107U	S16 E36	8339	09 21.2	13U	SF		2	V				DL	
		18 1111		1151	No Flare Patrol												
		18 1159		1259	No Flare Patrol												
0153	18 1300E	1314	1321	S16 E34	8339	09 21.1	21D	SF							18		
	SVTO	18 1300E	1307U	1324D	S17 E34	8339	09 21.1	24D	SF		3	E			23		
	RAMY	18 1305E	1314	1321	S14 E35	8339	09 21.2	16D	SF		3	E			12		
0154	18 1401*	14302	1440	S16 E34	8339	09 21.2	39	SF							24		
	SVTO	18 1401	1430	1438	S16 E35	8339	09 21.2	37	SF		3	E			34		
	HOLL	18 1431	1432	1441	S16 E33	8339	09 21.1	10	SF		3	E			14		
0155	SVTO	18 1439	1439	1449	S17 E33	8339	09 21.1	10	SF		3	E			16		
0156	SVTO	18 1509	1511	1524	S16 E35	8339	09 21.3	15	SF		3	E			13		
0157	HOLL	18 1625	1625	1631	S15 E32	8339	09 21.1	6	SF		3	E			16		
		18 2201		2229	No Flare Patrol												
0158	KHAR	19 0905U		0910	S16 E20	8339	09 20.9	5U	SF		2	V				DL	
0159	KHAR	19 0950		1010	S17 E23	8339	09 21.1	20	SF		2	V				DL	
0160	KHAR	19 1021		1029	S16 E22	8339	09 21.1	8	SF		2	V				DL	
0161	19 10484	1048	1058	S30 E20	8336	09 21.0	10	SF							15	F	
	SVTO	19 1048	1048	1058	S30 E21	8336	09 21.1	10	SF		3	E			15	F	
	KHAR	19 1052		1120D	S30 E20	8336	09 21.0	28D	SF		2	V					
0162	19 13421	13441	1350	S16 E18	8339	09 20.9	8	SF							24	F	
	RAMY	19 1342	1345	1350	S16 E18	8339	09 20.9	8	SF		4	E			24	F	
	SVTO	19 1343	1344	1349	S16 E18	8339	09 20.9	6	SF		3	E			23	F	
0163	HOLL	19 1808	1813	1826	N39 E64	8343	09 24.9	18	SF		3	E			15		
0164	HOLL	19 1944	1947	1954	N39 E63	8343	09 24.9	10	SF		3	E			56		
		19 2032		2055	No Flare Patrol												
		19 2351		2400	No Flare Patrol												
		20 0000		0131	No Flare Patrol												
0165	URUM	20 0238	0253	0325	N22 E62		09 24.9	47	3B			C		804	17.3	E	



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Grp #	Sta	Start Day	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Apparent (10 <sup>-6</sup> Disk)	Measurement Corr (Sq Deg)	Remarks
					Region	Lat	Cmd										
0185	23	12192	12221	1232	N22	E04	8340	09 23.8	13	SF				29			
	KANZ	23	1219	1223	1231	N22	E04	8340	09 23.8	12	SF		2	C			
	SVTO	23	1221	1222	1232	N22	E03	8340	09 23.7	11	SF		3	E	29		
0186	HOLL	23	1948	1949	2001	N21	W02	8340	09 23.7	13	SF		3	E	15		
		23	2029		2036	No Flare Patrol											
0187	HOLL	23	2041	2042	2046	N37	E14	8343	09 25.0	5	SF		3	E	20		
0188	HOLL	23	2223	2224	2239	S19	E12	8344	09 24.8	16	SF		3	E	46		
0189	23	2247	2247.3	2306	N20	W03	8340	09 23.7	19	SF				60		E	
	HOLL	23	2247	2247	2307	N21	W04	8340	09 23.6	20	SF		3	E	85		
	LEAR	23	2247E	2250	2305	N20	W02	8340	09 23.8	18D	SF		3	E	34		E
0190	HOLL	23	2333	2338	2344	S38	W47	8337	09 20.2	11	SF		3	E	16		
0191	24	06074	06092	0619	N22	W03	8340	09 24.0	12	SF				24			
	LEAR	24	0607	0609	0619	N20	W05	8340	09 23.9	12	SF		3	E	34		
	KANZ	24	0609	0609	0621	N23	W02	8340	09 24.1	12	SF		2	C			
	SVTO	24	0611	0611	0617	N23	W03	8340	09 24.0	6	SF		3	E	13		
0192	24	08124	08145	0844	S20	E06	8344	09 24.8	32	1N				117		EFH	
	LEAR	24	0812	0814	0844	S20	E05	8344	09 24.7	32	1N		3	E	108		EH
	SVTO	24	0812	0814	0847	S20	E05	8344	09 24.7	35	1N		3	E	126		F
	KANZ	24	0814	0814	0842	S20	E06	8344	09 24.8	28	1F		2	C			
	HURB	24	0816	0819	0845	S21	E06	8344	09 24.8	29	1N						
0193	24	08345	08357	0852	N21	W09	8340	09 23.7	18	SF				21		D	
	SVTO	24	0834	0835	0853	N20	W11	8340	09 23.5	19	SF		3	E	21		
	KANZ	24	0834	0842	0850	N21	W08	8340	09 23.7	16	SF		2	C			
	LEAR	24	0835	0836	0852	N20	W07	8340	09 23.8	17	SF		3	E	21		
	HURB	24	0839	0842	0851	N22	W09	8340	09 23.7	12	SF						D
0194	24	14101	14122	1419	N17	W10	8340	09 23.8	9	SF				15			
	KANZ	24	1410	1414	1418	N13	W12	8340	09 23.7	8	SF		2	C			
	RAMY	24	1411	1412	1415	N18	W08	8340	09 24.0	4	SF		3	E	16		
	SVTO	24	1411	1412	1424	N19	W09	8340	09 23.9	13	SF		3	E	14		
0195	KANZ	24	1618	1618U	1618D	N21	W15	8340	09 23.5	13D	SF		2	C			
0196	HOLL	24	1704	1705	1716	N21	W08	8340	09 24.1	12	SF		3	E	15		F
0197	HOLL	24	2144	2145	2159	N21	W18	8340	09 23.5	15	SF		3	E	24		
0198	URUM	25	0248	0252	0256	N18	W20	8340	09 23.6	8	SB			C	96	1.1	E
0199	KANZ	25	1042	1042	1046	N20	W21	8340	09 23.8	4	SF		2	C			
0200	KANZ	25	1046	1050	1147	N23	W02		09 25.3	61	1F		2	C			
0201	25	1127	1127	1127	N16	W20	8340	09 24.0	61	SF				17			
	RAMY	25	1108E	1108U	1121D	N17	W20	8340	09 23.9	13D	SF		3	E	17		
	KANZ	25	1127	1127	1127	N16	W21	8340	09 23.9	13	SF		2	C			
0202	KANZ	25	1139	1139	1151D	N21	W15	8340	09 24.3	12D	SF		2	C			
0203	RAMY	25	1314	1315	1328	S28	E32	8346	09 28.0	14	SF		3	E	50		
0204	25	1520	15211	1526	S30	W62	8336	09 20.8	6	SF				35			
	RAMY	25	1520	1521	1527	S30	W61	8336	09 20.8	7	SF		3	E	33		
	HOLL	25	1520	1522	1526	S30	W63	8336	09 20.7	6	SF		3	E	37		
0205	RAMY	25	1713	1713	1722	S21	W16	8344	09 24.5	9	SF		3	E	10		
		25	1844		2043	No Flare Patrol											
		25	2114		2159	No Flare Patrol											

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0206	HOLL	25	2219	2225	2257	S16 W13	8344	09	24.9	38	SF		3	E		62		
0207		25	2313	2322	2336	S29 E28	8346	09	28.2	23	SF					51		
	HOLL	25	2313	2322	2338	S28 E27	8346	09	28.1	25	SF		3	E		59		
	LEAR	25	2313	2323	2335	S30 E28	8346	09	28.2	22	SF		3	E		43		
0208		26	0648	0651	0701	N23 W31	8340	09	23.9	13	SF					33		FH
	SVTO	26	0648	0653	0704	N22 W31	8340	09	23.9	16	SF		3	E		36		FH
	LEAR	26	0649	0651	0658	N24 W31	8340	09	23.9	9	SF		3	E		30		F
		26	0933		0941	No Flare Patrol												
0209	KHAR	26	1030E		1130U	S13 W63	8339	09	21.7	60U	SF		2	V				T
0210	HOLL	26	1341	1343	1346	S15 W65	8339	09	21.6	5	SF		3	E		13		
0211		26	1348	1349	1354	N20 W38	8340	09	23.7	6	SF					37		
	SVTO	26	1343E	1349U	1354	N20 W36	8340	09	23.8	11D	SF		3	E		39		
	RAMY	26	1348	1349	1354	N19 W39	8340	09	23.6	6	SF		3	E		35		
0212	RAMY	26	1429	1431	1438	S14 W66	8339	09	21.6	9	SF		3	E		35		
0213	HOLL	26	1448	1454	1457	S15 W67	8339	09	21.5	9	SF		3	E		12		
0214	HOLL	26	1457	1458	1507	S30 E23	8346	09	28.4	10	SF		3	E		17		
0215		26	1501	1501	1508	N22 W38	8340	09	23.7	7	SF					16		FH
	HOLL	26	1501	1501	1509	N21 W38	8340	09	23.7	8	SF		3	E		20		
	RAMY	26	1501	1503	1507	N22 W37	8340	09	23.8	6	SF		3	E		13		FH
0216		26	1534	1542	1555	S30 E20	8346	09	28.2	21	SF					18		F
	HOLL	26	1534	1542	1555	S29 E19	8346	09	28.1	21	SF		3	E		22		
	SVTO	26	1542	1545U	1602D	S30 E20	8346	09	28.2	20D	SF		3	E		13		F
0217	HOLL	26	1545	1546	1551	S15 W70	8339	09	21.3	6	SF		3	E		14		
0218	HOLL	26	1623	1624	1631	N22 W39	8340	09	23.7	8	SF		3	E		26		H
0219	HOLL	26	2316	2316	2324	N20 W44	8340	09	23.6	8	SF		3	E		13		
0220		27	0001	0002	0006	S17 W71	8339	09	21.6	5	SF					15		
	LEAR	27	0001	0003	0007	S17 W73	8339	09	21.4	6	SF		3	E		15		
	HOLL	27	0002	0002	0006	S17 W69	8339	09	21.7	4	SF		3	E		15		
0221		27	0236	0240	0306	S30 E13	8346	09	28.1	30	2N					276	5.6	EF
	LEAR	27	0236	0240	0307	S29 E12	8346	09	28.0	31	1F		3	E		135		F
	URUM	27	0238	0242	0305	S30 E14	8346	09	28.2	27	2B			C		418	5.6	E
0222	URUM	27	0357	0401	0404	S05 W80		09	21.2	7	1B			C		96		D
0223	LEAR	27	0359	0400	0405	N20 W46	8340	09	23.6	6	SF		3	E		22		
0224	URUM	27	0401E	0401	0404	N30 W55	8338	09	22.8	3D	1N			P		193	3.6	E
0225	LEAR	27	0401	0401	0404	S17 W75	8339	09	21.5	3	SF		3	E		15		
0226	LEAR	27	0424	0426	0440	S29 E11	8346	09	28.0	16	SF		3	E		41		
		27	0713		0730	No Flare Patrol												
0227	LEAR	27	0809	0809	0831	N21 W48	8340	09	23.6	22	SF		3	E		84		FU
		27	1100		1115	No Flare Patrol												
		27	1133		1135	No Flare Patrol												
		27	1233		1240	No Flare Patrol												
		27	1307		1313	No Flare Patrol												
0228		27	1626	1627*	1654	N20 W53	8340	09	23.6	28	1F					104		FH
	HOLL	27	1626	1627	1653	N20 W54	8340	09	23.5	27	SF		3	E		96		
	RAMY	27	1629	1641	1655	N21 W52	8340	09	23.7	26	1F		4	E		111		FH

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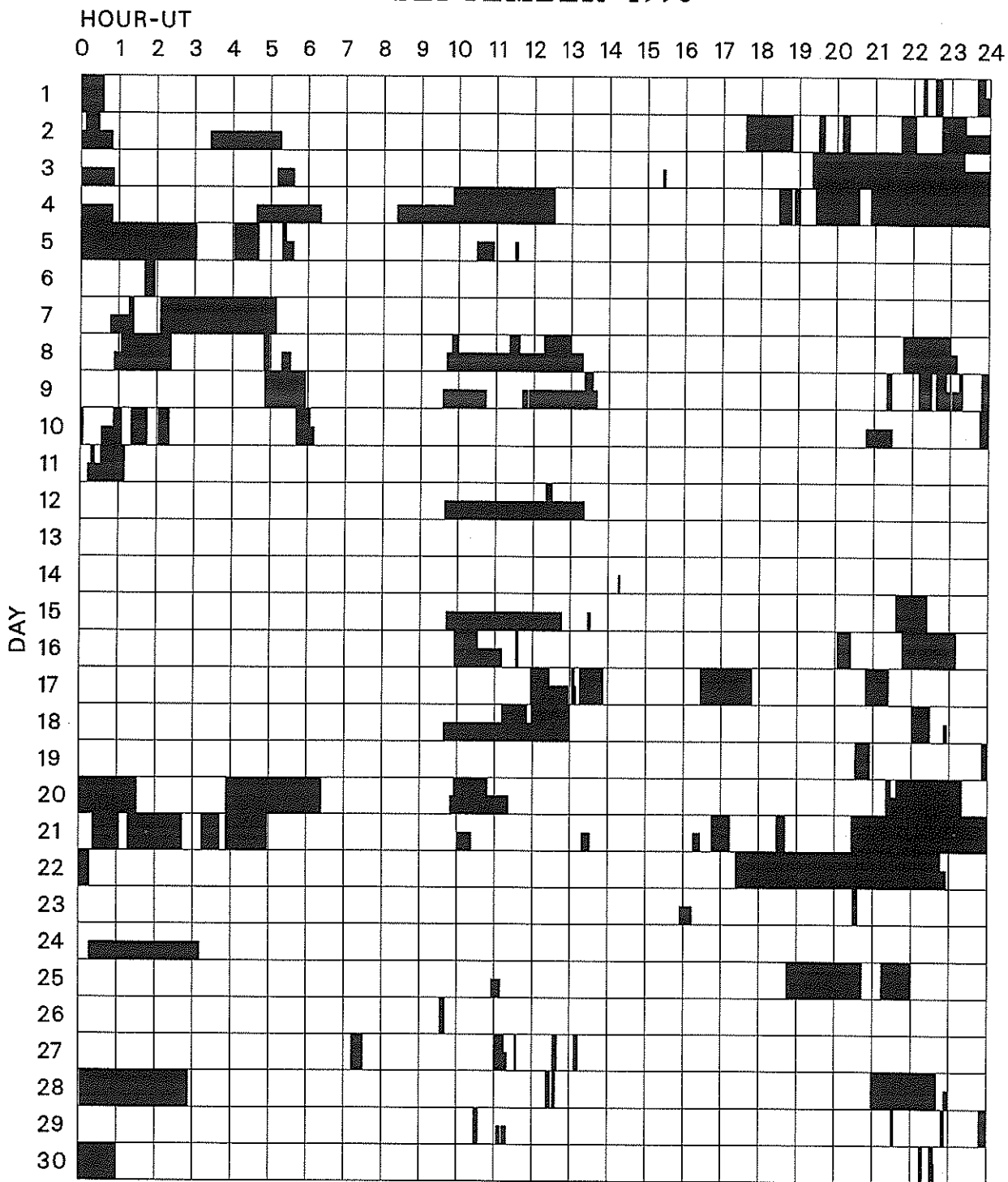
SEPTEMBER 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0229	HOLL	27	1821	1821	1826	N20	W54	8340	09	23.6	5	SF		3	E		22		
0230	HOLL	27	1923	1927	1933	N21	W49	8340	09	24.0	10	SF		3	E		30		
0231	HOLL	27	2338	2341	2341D	N20	W58	8340	09	23.5	3D	1N		3	E		246		
		28	0003		0253													No Flare Patrol	
0232	LEAR	28	0351	0351	0358	N20	W59	8340	09	23.6	7	SF		3	E		13		
0233		28	05472	05522	0607	N20	W58	8340	09	23.8	20	SF					46		
	LEAR	28	0547	0554	0607	N21	W58	8340	09	23.8	20	SF		3	E		41		
	SVTO	28	0549	0552	0610D	N20	W58	8340	09	23.8	21D	SF		3	E		51		
		28	1223		1229													No Flare Patrol	
		28	1233		1237													No Flare Patrol	
0234	RAMY	28	1642	1642	1655	S28	W10	8346	09	27.9	13	SF		3	E		11		
0235	RAMY	28	1644	1644	1649	N21	W64	8340	09	23.8	5	SF		3	E		12		
0236	HOLL	28	1644	1644	1650	N18	W76	8340	09	22.9	6	SF		3	E		20		
0237	HOLL	28	1824	1827	1835	N20	W67	8340	09	23.6	11	SF		3	E		10		
		28	2058		2240													No Flare Patrol	
0238	LEAR	29	0158	0202	0211	N23	W69	8340	09	23.8	13	SF		3	E		54		
0239		29	06234	06278	0656	N21	W54	8345	09	25.1	33	SF					16		
	KANZ	29	0623	0627	0703	N21	W53		09	25.2	40	SF		2	C				
	LEAR	29	0627	0635	0650	N21	W54	8345	09	25.1	23	SF		3	E		22		
	SVTO	29	0631E	0633U	0646D	N21	W54	8345	09	25.1	15D	SF		3	E		11		
0240	SVTO	29	0647E	0653U	0701D	N21	W54	8345	09	25.1	14D	SF		3	E		22		
		29	1028		1034													No Flare Patrol	
		29	2130		2134													No Flare Patrol	
		29	2248		2253													No Flare Patrol	
		29	2348		2400													No Flare Patrol	
		30	0000		0059													No Flare Patrol	
0241	LEAR	30	0517	0519	0526	S29	W28	8346	09	28.0	9	SF		3	E		20		
0242		30	06053	06062	0611	S30	W28	8346	09	28.0	6	SF					20		
	SVTO	30	0605	0606	0610	S30	W26	8346	09	28.2	5	SF		3	E		20		
	KANZ	30	0608	0608	0612	S29	W31	8346	09	27.8	4	SF		2	C				
0243	KANZ	30	0748	0752	0756	S20	W76	8344	09	24.5	8	SF		2	C				
0244	KANZ	30	0952	0956	1004	S24	E15	8347B	10	1.6	12	SF		2	C				
0245	RAMY	30	1322	1338	1350	S28	W35	8346	09	27.8	28	SF		3	E		14		
0246	RAMY	30	1324	1334	1339	N21	W71	8345	09	25.1	15	SF		3	E		20		
0247		30	1314	1331	1338	N20	W84	8340	09	24.1	24	SF					62		H
	RAMY	30	1314	1331	1339	N19	W85	8340	09	24.1	25	SF		3	E		37		
	SVTO	30	1325E	1327U	1338	N20	W83	8340	09	24.2	13D	SF		3	E		86		H
0248		30	1402	14342	1542	N23	W78	8340	09	24.6	100	2N					291		FY
	RAMY	30	1402	1434	1545	N23	W81	8340	09	24.3	103	2N		3	E		325		F
	SVTO	30	1415E	1436	1540	N23	W76	8340	09	24.7	85D	2N		3	E		257		YF
		30	2214		2219													No Flare Patrol	
		30	2230		2236													No Flare Patrol	
0249	URUM	31	0510E	0510	0552	N37	W73		09	25.3	42D	1B					80		E

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

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## SEPTEMBER 1998



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  
Hurbanovo

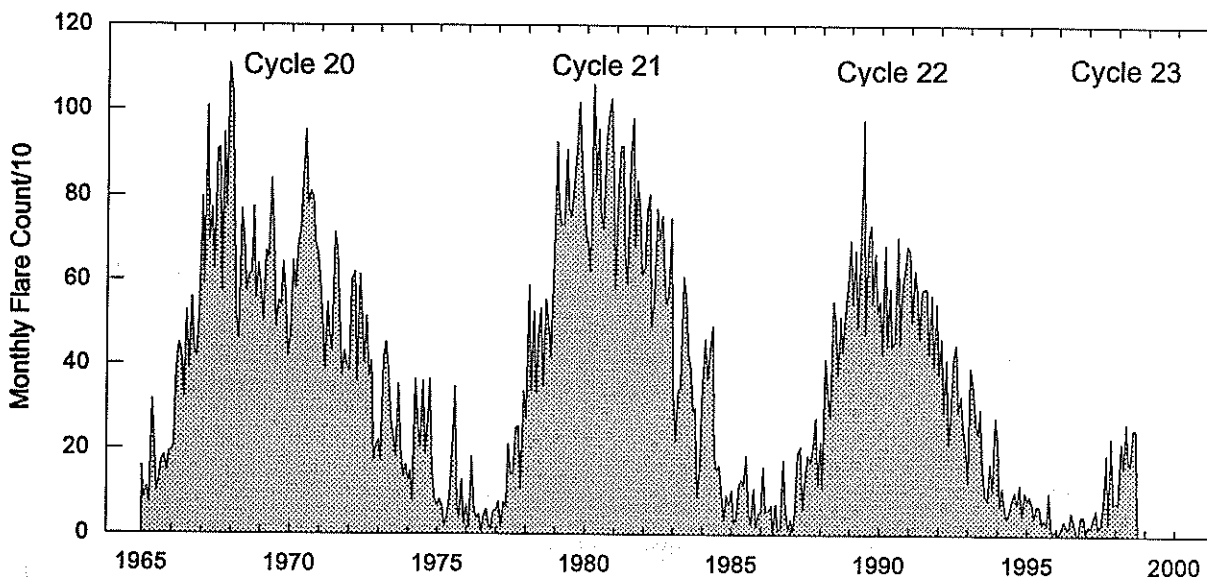
Kanzelhoehe  
Kharkov

Learmonth  
Ramey

San Vito  
Urumqi



## Monthly Counts of Grouped Solar Flares Jan 1965 - Sep 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	264	177	164	248	249				1633

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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SEPTEMBER 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	245	SVTO	43 NS	0436.0	0446.0U	1164.0	77.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	0803.0	0829.0	113.0	120.0			QL=4 ST=2 TYP=1	
	410	SVTO	43 NS	0832.0	1012.0	496.0	97.0			QL=4 ST=2 TYP=1	
	410	LEAR	43 NS	0907.0	0917.0	49.0	72.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1058.0	1101.0	782.0	85.0			QL=4 ST=1 TYP=1	
	245	SGMR	43 NS	1158.0	1632.0	636.0	350.0			QL=4 ST=1 TYP=1	
	280	CUBA	44 NS	1300.0E		455.0D		49.0			
	410	SGMR	43 NS	1546.0	1547.0	3.0	150.0				QL=4 ST=2 TYP=1
	245	PALE	43 NS	1654.0	1709.0U	231.0	93.0				QL=2 ST=2 TYP=1
	5730	IRKU	4 S/F	0144.0	0144.8	1.7	15.0		U		
	9100	GORK	4 S/F	0420.2	0420.7	1.5	114.3				
	2950	GORK	28 PRE	0427.4	0451.2	23.8	11.0				
	2840	BEIJ	45 C	0444.0	0452.0	19.0	57.6			32.9	
	9100	GORK	28 PRE	0445.0	0452.0	7.0	16.9				
	950	GORK	45 C	0448.0	0452.8	8.2	30.5				
	600	GORK	23 GRF	0448.8	0455.5	12.0	9.0				
	600	GORK	41 F	0450.8	0451.8	2.2	78.0				
	5730	IRKU	46 C	0450.9	0454.6	36.1	86.0		U		
	4995	LEAR	4 S/F	0451.0	0452.0	5.0	95.0				QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0451.0	0453.0	5.0	58.0				QL=4 ST=2 TYP=3
	2800	HIRA	45 C	0451.0	0452.6	6.0	50.0			15.0	O
	2950	GORK	45 C	0451.2	0453.2	5.4	61.6				
	1415	LEAR	8 S	0452.0	0453.0	1.0	27.0				QL=4 ST=2 TYP=3
	8800	LEAR	48 C	0452.0	0455.0	4.0	52.0				QL=4 ST=2 TYP=8
	9100	GORK	45 C	0452.0	0455.5	6.2	58.1				
	950	GORK	29 PBI	0456.2	0456.2	3.8	16.0				
	9100	GORK	29 PBI	0456.2	0456.2	15.8	26.6				
	2950	GORK	29 PBI	0456.6	0456.6	42.8	13.0				
	245	LEAR	8 S	0747.0	0749.0	2.0	75.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0827.0	0829.0	2.0	99.0				QL=2 ST=2 TYP=3
	410	LEAR	8 S	0859.0	0901.0	2.0	78.0				QL=4 ST=2 TYP=3
	610	LEAR	8 S	0859.0	0859.0		26.0		U		QL=4 ST=2 TYP=3
	410	SVTO	8 S	0859.0	0901.0	2.0	74.0				QL=2 ST=2 TYP=3
	410	SVTO	8 S	0917.0	0918.0	1.0	190.0				QL=2 ST=2 TYP=3
	6700	CUBA	20 GRF	1012.0	1018.0	11.0	4.0			2.0	24L
	410	SGMR	8 S	1217.0	1217.0		100.0		U		QL=4 ST=2 TYP=3
	410	SGMR	8 S	1323.0	1324.0	1.0	64.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1343.0	1343.0	1.0	210.0				QL=2 ST=2 TYP=3
	245	SVTO	8 S	1615.0	1616.0	1.0	180.0				QL=2 ST=2 TYP=3
	2800	PENT	1 S	1810.0	1812.0	15.0	6.0				QL=2 ST=2 TYP=3
	6700	CUBA	23 GRF	1836.0	1955.0	80.0D	20.0				5L 1956 OFF
	2800	PENT	1 S	2131.0	2134.0	34.0	6.0				
	245	PALE	8 S	2245.0	2245.0	2.0	56.0				QL=2 ST=2 TYP=3
	245	PALE	8 S	2252.0	2252.0		73.0		U		QL=2 ST=2 TYP=3
	245	PALE	8 S	2328.0	2328.0		74.0		U		QL=2 ST=2 TYP=3
245	PALE	8 S	2347.0	2348.0	1.0	65.0				QL=2 ST=2 TYP=3	
245	PALE	8 S	2350.0	2351.0	2.0	60.0				QL=2 ST=2 TYP=3	
02	245	PALE	43 NS	0013.0	0145.0	131.0	94.0			QL=2 ST=2 TYP=1	
	245	LEAR	43 NS	0144.0	0144.0	492.0	90.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0501.0	0723.0	588.0	140.0			QL=4 ST=2 TYP=1	
	410	SVTO	43 NS	0930.0	0930.0	32.0	68.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1208.0	1755.0	537.0	140.0			QL=4 ST=2 TYP=1	
	235	CUBA	44 NS	1600.0E		278.0D		17.0			
	280	CUBA	44 NS	1610.0E		268.0D		27.0			
	245	PALE	43 NS	1749.0	1904.0	76.0	230.0				QL=2 ST=2 TYP=1
	5730	IRKU	4 S/F	0157.4	0159.4	14.6	8.0		U		
	245	PALE	8 S	0311.0	0312.0	1.0	69.0				QL=2 ST=2 TYP=3
	245	PALE	4 S/F	0323.0	0326.0	4.0	60.0				QL=2 ST=2 TYP=3
	9100	GORK	8 S	0438.8	0438.9	0.3	153.2				
	245	SVTO	8 S	0523.0	0523.0	1.0	84.0				QL=2 ST=2 TYP=3
	2950	GORK	22 GRF	0754.0	0909.2	174.0D	11.8				
	9100	GORK	21 GRF	0842.0	1059.0	184.0D	36.0				
	5730	IRKU	1 S	0856.0	0858.0	7.0	12.0		U		
	33	UPIC	42 SER	0857.0		299.0					
	245	SVTO	48 C	1017.0	1017.0	3.0	180.0				QL=2 ST=2 TYP=8
9100	GORK	2 S/F	1054.9	1106.8	21.0D	31.0					
2695	SGMR	8 S	1326.0	1326.0		100.0				QL=4 ST=2 TYP=3	
33	UPIC	46 C	1537.5	1538.0	2.7						

S O L A R R A D I O E M I S S I O N  
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SEPTEMBER 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		
02	245	SVTO	8 S	1656.0	1657.0	1.0	79.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	1828.0	1828.0	1.0	66.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1908.0	1908.0	U	310.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	2149.0	2149.0	U	78.0			QL=4 ST=2 TYP=3
03	245	PALE	43 NS	0144.0	0227.0	160.0	260.0			QL=2 ST=2 TYP=1
	245	SVTO	43 NS	0440.0	0536.0	251.0	190.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0947.0	1321.0	431.0	250.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1109.0	1732.0	693.0	340.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1300.0E		450.0D		21.0		
	280	CUBA	44 NS	1300.0E		450.0D		24.0		
	245	PALE	43 NS	1715.0	1821.0U	309.0	320.0			QL=2 ST=2 TYP=1
	5730	IRKU	4 S/F	0027.2	0029.0	13.5	48.0		U	
	2804	VORO	3 S	0027.5	0028.9	2.4	4.3			
	5730	IRKU	1 S	0346.0	0346.6	1.5	8.0		U	
	5730	IRKU	21 GRF	0358.0	0437.8	81.0	26.0		U	
	245	LEAR	4 S/F	0421.0	0421.0	699.0	150.0			QL=4 ST=1 TYP=3
	5730	IRKU	1 S	0549.0	0549.8	2.0	6.0		U	
	245	SVTO	8 S	0558.0	0558.0	1.0	470.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0718.0	0718.0	2.0	58.0			QL=4 ST=2 TYP=3
	950	GORK	45 C	0923.0	0929.2	7.0	29.0			
	600	GORK	20 GRF	0923.5	0925.4	5.0	6.0			
	245	SVTO	49 GB	1035.0	1036.0	1.0	740.0			QL=2 ST=2 TYP=6
	9100	GORK	21 GRF	1045.6	1106.8	22.0D	14.6			
	245	SVTO	8 S	1048.0	1049.0	1.0	320.0			QL=2 ST=3 TYP=3
	9100	GORK	2 S/F	1104.3	1104.5	0.5	24.3			
	33	UPIC	45 C	1219.8	1220.1	2.2				
	6700	CUBA	21 GRF	1412.0	1612.0	359.0D	38.0			OOL 2011 OFF
	2695	SVTO	4 S/F	1413.0	1414.0	587.0	170.0			QL=4 ST=1 TYP=3
	1415	SVTO	4 S/F	1413.0	1414.0	587.0	99.0			QL=4 ST=1 TYP=3
	4995	SVTO	4 S/F	1413.0	1414.0	587.0	180.0			QL=4 ST=1 TYP=3
	6700	CUBA	3 S	1413.2	1414.2	5.8	161.0	80.0		4R
	4995	SGMR	4 S/F	1414.0	1414.0	4.0	190.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1414.0	1414.0	4.0	180.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1414.0	1414.0	4.0	89.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1414.0	1414.0	4.0	140.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1414.0	1415.0	4.0	940.0			QL=4 ST=2 TYP=6
	15400	SGMR	4 S/F	1414.0	1414.0	4.0	130.0			QL=4 ST=2 TYP=3
8800	SVTO	4 S/F	1414.0	1414.0	586.0	130.0			QL=2 ST=1 TYP=3	
15400	SVTO	4 S/F	1414.0	1415.0	586.0	120.0			QL=4 ST=1 TYP=3	
33	UPIC	48 C	1414.5	1416.0U	6.5					
610	SGMR	4 S/F	1415.0	1415.0	3.0	31.0			QL=4 ST=2 TYP=3	
2800	PENT	40 F	1440.0	1550.0	111.0D	23.0				
6700	CUBA	1 S	1606.3	1607.1	1.4	9.0	4.0		15L	
6700	CUBA	1 S	1645.0	1645.4	1.2	9.0	4.0		11L	
245	SGMR	8 S	1713.0	1714.0	2.0	430.0			QL=4 ST=2 TYP=3	
04	245	LEAR	43 NS	0001.0	0003.0	49.0	460.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0001.0	0003.0	86.0	460.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	0024.0	0041.0	26.0	170.0			QL=2 ST=3 TYP=1
	245	LEAR	43 NS	0309.0	0309.0	17.0	130.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	0309.0	0309.0	17.0	120.0			QL=2 ST=2 TYP=1
	245	SVTO	43 NS	0824.0	1026.0	245.0	150.0			QL=4 ST=3 TYP=1
	245	SGMR	43 NS	1055.0	1219.0	90.0	150.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1300.0E		450.0D		26.0		
	235	CUBA	44 NS	1300.0E		450.0D		17.0		
	245	SGMR	43 NS	1452.0	1630.0	171.0	130.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2300.0	2300.0	113.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2300.0	2301.0	329.0	110.0			QL=2 ST=2 TYP=1
	500	HIRA	8 S	0003.2	0003.5	0.5	20.0			0
	245	LEAR	8 S	0207.0	0209.0	2.0	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0250.0	0251.0	1.0	130.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0250.7	0251.7	5.3	2.0		U	
	245	PALE	8 S	0251.0	0251.0	U	170.0			QL=2 ST=2 TYP=3
	5730	IRKU	1 S	0258.4	0259.4	2.6	3.0		U	
245	PALE	8 S	0421.0	0421.0	U	210.0			QL=2 ST=2 TYP=3	
1415	SVTO	8 S	0710.0	0711.0	1.0	38.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	0710.0	0711.0	1.0	160.0			QL=2 ST=2 TYP=3	
410	SVTO	4 S/F	0710.0	0711.0	5.0	210.0			QL=2 ST=2 TYP=3	

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Sep 98

SEPTEMBER 1998

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
04	245	SVTO	4 S/F	0710.0	0711.0	5.0	240.0			QL=2 ST=2 TYP=3
	600	GORK	4 S/F	0814.4	0815.2	1.7	30.0			
	950	GORK	2 S/F	0814.7	0815.2	1.4	26.0			
	245	SVTO	8 S	0824.0	0824.0	U	73.0			QL=2 ST=2 TYP=3
	9100	GORK	20 GRF	0924.0	0942.7	19.30	33.2			
	2950	GORK	28 PRE	0937.8	0940.7	2.9	7.0			
	3000	IZMI	20 GRF	0938.1	0941.5	12.5	24.8	10.0		
	5730	IRKU	45 C	0939.0	0942.5	21.00	35.0	U		
	4995	SVTO	4 S/F	0940.0	0942.0	10.0	62.0			QL=4 ST=2 TYP=3
	2950	GORK	3 S	0940.7	0942.8	3.2	28.0			
	2695	SVTO	8 S	0941.0	0942.0	2.0	28.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0942.0	0942.0	U	23.0			QL=2 ST=2 TYP=3
	2950	GORK	29 PBI	0943.9	0943.9	47.4	16.6			
	33	UPIC	42 SER	1017.5		180.5				
	245	SGMR	8 S	1319.0	1320.0	1.0	84.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1319.0	1320.0	1.0	80.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1345.0	1345.0	U	69.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1509.8	1510.2	3.7				
	245	SVTO	8 S	1514.0	1514.0	1.0	140.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1653.0	1654.0	2.0	65.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1720.0	1720.0	1.0	190.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1725.0	1725.0	U	56.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1732.0	1732.0	U	110.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1924.0	1925.0	1.0	56.0			QL=4 ST=2 TYP=3
	6700	CUBA	3 S	1949.0	1955.0	10.0	19.0	9.0		5L
	245	PALE	8 S	1957.0	1959.0	2.0	85.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2031.0	2031.0	1.0	130.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	2031.0	2031.0	1.0	150.0			QL=4 ST=2 TYP=3
	2804	VORO	22 GRF	2322.5	2348.2	118.0	7.8			
	2804	VORO	3 S	2325.6	2326.8	4.4	8.6			
05	127	TORN	44 NS	0620.0E		130.00		5.0		V=1
	245	SGMR	43 NS	2052.0	2131.0	94.0	120.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2200.0	2203.0	260.0	82.0			QL=2 ST=2 TYP=1
	245	LEAR	8 S	0105.0	0107.0	2.0	67.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0113.0	0113.0	U	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0442.0	0442.0	U	150.0			QL=2 ST=2 TYP=3
	600	GORK	4 S/F	0456.5	0457.1	1.4	18.0			
	5730	IRKU	1 S	0457.9	0458.3	17.1	8.0	U		
	5730	IRKU	1 S	0533.0	0533.4	2.0	6.0	U		
	2950	GORK	1 S	0543.7	0544.0	0.8	3.0			
	8800	SVTO	8 S	0552.0	0553.0	1.0	23.0			QL=2 ST=2 TYP=3
	15400	SVTO	8 S	0552.0	0553.0	1.0	20.0			QL=4 ST=2 TYP=3
	5730	IRKU	4 S/F	0552.4	0552.8	5.6	13.0	U		
	9100	GORK	1 S	0552.5	0553.0	1.2	28.0			
	9100	GORK	23 GRF	0603.0	0641.0	97.0	19.3			
	33	UPIC	4 S/F	0624.5	0625.0	1.5				
	9100	GORK	2 S/F	0625.0	0625.6	0.8	28.0			
	600	GORK	4 S/F	0735.8	0737.1	2.3	121.0			
	2840	BEIJ	46 C	0736.0	0739.0	4.0	14.4	8.8		
	3000	IZMI	41 F	0736.0	0738.0	2.4	10.0			
	9100	GORK	45 C	0736.3	0737.1	2.0	18.7			
	2950	GORK	45 C	0736.3	0738.2	3.0	11.0			
	5730	IRKU	1 S	0749.8	0754.8	7.0	6.0	U		
	245	SVTO	8 S	1055.0	1055.0	1.0	62.0			QL=2 ST=2 TYP=3
	3000	IZMI	7 C	1055.5	1056.0	5.0	11.0			
	2950	GORK	4 S/F	1056.0	1056.2	0.4	14.0			
	245	SGMR	8 S	1118.0	1118.0	1.0	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1118.0	1118.0	1.0	110.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1253.0	1253.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1253.0	1253.0	1.0	120.0			QL=2 ST=2 TYP=3
245	SGMR	8 S	1353.0	1353.0	1.0	50.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1353.0	1353.0	U	56.0			QL=2 ST=2 TYP=3	
245	PALE	49 GB	1727.0	1728.0	3.0	660.0			QL=2 ST=2 TYP=6	
245	SGMR	49 GB	1727.0	1728.0	3.0	640.0			QL=4 ST=2 TYP=6	
410	SGMR	8 S	1728.0	1728.0	2.0	20.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1735.0	1735.0	1.0	190.0			QL=2 ST=2 TYP=3	
245	SGMR	8 S	1735.0	1735.0	1.0	200.0			QL=4 ST=2 TYP=3	
245	PALE	4 S/F	1952.0	1953.0	3.0	71.0			QL=2 ST=2 TYP=3	

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SEPTEMBER 1998

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean		
05	245	SGMR	8 S	1953.0	1953.0			95.0		QL=4 ST=2 TYP=3
	245	PALE	8 S	2011.0	2012.0	2.0		57.0		QL=2 ST=2 TYP=3
	245	SGMR	8 S	2012.0	2012.0	1.0		76.0		QL=4 ST=2 TYP=3
	245	PALE	8 S	2017.0	2019.0	2.0		80.0		QL=2 ST=2 TYP=3
	245	SGMR	8 S	2017.0	2019.0	2.0		86.0		QL=4 ST=2 TYP=3
	245	SGMR	8 S	2044.0	2046.0	2.0		140.0		QL=4 ST=2 TYP=3
	245	PALE	8 S	2046.0	2046.0		U	110.0		QL=2 ST=2 TYP=3
	245	PALE	4 S/F	2051.0	2052.0	3.0		63.0		QL=2 ST=2 TYP=3
	245	PALE	8 S	2053.0	2054.0	2.0		50.0		QL=2 ST=2 TYP=3
	245	PALE	4 S/F	2059.0	2101.0	3.0		91.0		QL=2 ST=2 TYP=3
	245	PALE	4 S/F	2123.0	2124.0	3.0		56.0		QL=2 ST=2 TYP=3
	245	PALE	8 S	2130.0	2131.0	1.0		120.0		QL=2 ST=2 TYP=3
	245	PALE	8 S	2157.0	2158.0	1.0		84.0		QL=2 ST=2 TYP=3
	245	PALE	8 S	2354.0	2355.0	2.0		220.0		QL=2 ST=3 TYP=3
245	LEAR	8 S	2355.0	2355.0		U	160.0		QL=4 ST=2 TYP=3	
06	245	PALE	43 NS	0212.0	0344.0	136.0		73.0		QL=2 ST=2 TYP=1
	245	LEAR	43 NS	0316.0	0356.0	402.0		140.0		QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0441.0	0722.0	304.0		160.0		QL=4 ST=2 TYP=1
	15400	SVTO	8 S	0000.0	0000.0		U	70.0		QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0000.0	0402.0	262.0		70.0		QL=4 ST=2 TYP=3
	5730	IRKU	45 C	0018.7	0023.5	16.3		18.0	U	
	245	LEAR	4 S/F	0020.0	0024.0	6.0		250.0		QL=4 ST=2 TYP=3
	245	PALE	48 C	0020.0	0024.0	6.0		340.0		QL=2 ST=2 TYP=8
	410	LEAR	4 S/F	0021.0	0024.0	6.0		42.0		QL=4 ST=2 TYP=3
	410	PALE	8 S	0024.0	0024.0		U	56.0		QL=4 ST=2 TYP=3
	245	LEAR	8 S	0107.0	0107.0		U	61.0		QL=4 ST=2 TYP=3
	5730	IRKU	3 S	0119.5	0125.8	17.5		7.0	U	
	2840	BEIJ	5 S	0209.0	0212.0	6.0		168.0	106.0	
	5730	IRKU	4 S/F	0210.0	0212.6	9.0		37.0	U	
	2804	VORO	4 S/F	0211.2	0212.6	2.5		86.4		
	8800	LEAR	8 S	0212.0	0212.0	1.0		43.0		QL=4 ST=2 TYP=3
	410	LEAR	8 S	0212.0	0213.0	1.0		180.0		QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0212.0	0212.0	1.0		180.0		QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0212.0	0212.0	1.0		59.0		QL=4 ST=2 TYP=3
	610	LEAR	8 S	0212.0	0213.0	1.0		350.0		QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0212.0	0212.0	1.0		480.0		QL=4 ST=2 TYP=3
	1415	PALE	49 GB	0212.0	0212.0	1.0		510.0		QL=4 ST=2 TYP=6
	410	PALE	8 S	0212.0	0213.0	1.0		190.0		QL=4 ST=2 TYP=3
	610	PALE	8 S	0212.0	0213.0	1.0		370.0		QL=4 ST=2 TYP=3
	8800	PALE	8 S	0212.0	0212.0		U	41.0		QL=4 ST=2 TYP=3
	2695	PALE	8 S	0212.0	0212.0	1.0		170.0		QL=4 ST=2 TYP=3
	2800	HIRA	8 S	0212.6	0212.8	0.5		210.0		WR
	5730	IRKU	1 S	0239.1	0239.7	5.9		7.0	U	
	245	PALE	8 S	0339.0	0339.0		U	56.0		QL=2 ST=2 TYP=3
	245	SVTO	8 S	0446.0	0446.0	1.0		140.0		QL=2 ST=2 TYP=3
	9100	GORK	20 GRF	0534.7	0614.8	95.3		19.0		
	600	GORK	1 S	0546.9	0547.7	1.6		5.0		
	950	GORK	4 S/F	0547.1	0548.3	2.8		15.0		
	600	GORK	23 GRF	0550.4	0553.4	11.9		6.0		
	600	GORK	41 F	0559.5	0559.6	1.2		8.0		
	245	SVTO	8 S	0714.0	0714.0		U	230.0		QL=2 ST=3 TYP=3
	600	GORK	4 S/F	0816.9	0818.9	3.5		23.0		
	9100	GORK	1 S	0910.8	0911.0	1.0		12.0		
	600	GORK	41 F	0949.9	0950.3	3.2		10.0		
	15400	SVTO	8 S	1106.0	1106.0		U	57.0		QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1106.0	1106.0		U	26.0		QL=4 ST=2 TYP=3
	245	SVTO	8 S	1313.0	1314.0	1.0		51.0		QL=4 ST=2 TYP=3
2800	PENT	1 S	1553.0	1554.0	5.0		14.0			
8800	SGMR	8 S	1554.0	1554.0	1.0		86.0		QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1554.0	1554.0	1.0		65.0		QL=4 ST=2 TYP=3	
15400	SVTO	8 S	1554.0	1554.0	1.0		70.0		QL=4 ST=2 TYP=3	
4995	SVTO	8 S	1554.0	1555.0	2.0		27.0		QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1554.0	1554.0	1.0		130.0		QL=2 ST=2 TYP=3	
4995	SGMR	8 S	1555.0	1555.0		U	28.0		QL=4 ST=2 TYP=3	
2695	SVTO	8 S	1555.0	1555.0	1.0		20.0		QL=4 ST=2 TYP=3	
410	PALE	4 S/F	1655.0	1700.0	8.0		140.0		QL=4 ST=2 TYP=3	
410	SGMR	8 S	1700.0	1700.0		U	140.0		QL=4 ST=2 TYP=3	
410	PALE	48 C	1709.0	1709.0	4.0		290.0		QL=4 ST=2 TYP=8	

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

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Sep 98

SEPTEMBER 1998

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean		
06	L	410 SGMR	4 S/F	1709.0	1709.0	3.0	310.0			QL=4 ST=2 TYP=3
		245 PALE	8 S	1731.0	1732.0	1.0	150.0			QL=2 ST=2 TYP=3
		245 SGMR	8 S	1731.0	1732.0	1.0	150.0			QL=4 ST=2 TYP=3
		2800 PENT	1 S	2056.0	2100.0	14.0	6.0			
		245 PALE	8 S	2111.0	2111.0		75.0			QL=2 ST=2 TYP=3
		245 SGMR	8 S	2111.0	2111.0		64.0			QL=4 ST=2 TYP=3
07	L	245 SVTO	43 NS	1210.0	1408.0	160.0	81.0			QL=4 ST=2 TYP=1
		280 CUBA	44 NS	1300.0E		180.0D		22.0		
		235 CUBA	44 NS	1300.0E		180.0D		13.0		
		245 SGMR	43 NS	1448.0	1448.0	5.0	60.0			QL=4 ST=2 TYP=1
		245 LEAR	8 S	0030.0	0032.0	2.0	56.0			QL=4 ST=2 TYP=3
		245 PALE	8 S	0030.0	0032.0	2.0	89.0			QL=4 ST=2 TYP=3
		1415 LEAR	8 S	0040.0	0040.0	1.0	28.0			QL=4 ST=2 TYP=3
		610 LEAR	8 S	0040.0	0040.0	1.0	31.0			QL=4 ST=2 TYP=3
		410 LEAR	49 GB	0040.0	0040.0	2.0	4300.0			QL=4 ST=2 TYP=6
		410 PALE	49 GB	0040.0	0041.0	1.0	690.0			QL=4 ST=2 TYP=6
		610 PALE	8 S	0040.0	0040.0	1.0	27.0			QL=4 ST=2 TYP=3
		245 LEAR	8 S	0153.0	0154.0	1.0	79.0			QL=4 ST=2 TYP=3
		245 PALE	8 S	0153.0	0154.0	1.0	83.0			QL=2 ST=2 TYP=3
		5730 IRKU	45 C	0502.1	0503.8	10.9	10.0			U
		245 LEAR	8 S	0820.0	0820.0	1.0	84.0			QL=4 ST=2 TYP=3
		245 SVTO	8 S	0820.0	0820.0	1.0	140.0			QL=4 ST=2 TYP=3
		2950 GORK	20 GRF	0830.0	0927.0	93.0	4.7			
		245 SVTO	8 S	0849.0	0851.0	2.0	60.0			QL=4 ST=2 TYP=3
		9100 GORK	8 S	0942.4	0942.5	0.2	82.5			
		3000 IZMI	20 GRF	1022.7	1023.5	17.5	4.3			
		3000 IZMI	7 C	1120.5	1120.6	0.4	17.3			
		245 SGMR	8 S	1152.0	1152.0		80.0			QL=4 ST=3 TYP=3
		245 SVTO	8 S	1152.0	1152.0	1.0	140.0			QL=4 ST=2 TYP=3
		245 SVTO	8 S	1154.0	1155.0	1.0	74.0			QL=4 ST=2 TYP=3
		245 SGMR	8 S	1155.0	1155.0		60.0			QL=4 ST=2 TYP=3
		245 SGMR	8 S	1256.0	1256.0	1.0	59.0			QL=4 ST=2 TYP=3
		245 SGMR	4 S/F	1336.0	1339.0	5.0	62.0			QL=4 ST=2 TYP=3
		245 SGMR	8 S	1349.0	1349.0		61.0			QL=4 ST=2 TYP=3
		245 PALE	8 S	1724.0	1724.0		100.0			QL=2 ST=2 TYP=3
		245 SGMR	8 S	1724.0	1724.0		140.0			QL=4 ST=2 TYP=3
245 PALE	8 S	1817.0	1817.0		60.0			QL=2 ST=2 TYP=3		
245 SGMR	8 S	1817.0	1817.0		74.0			QL=4 ST=2 TYP=3		
245 SGMR	8 S	2016.0	2017.0	1.0	51.0			QL=4 ST=2 TYP=3		
08	L	280 CUBA	44 NS	1300.0E		455.0D		21.0		
		235 CUBA	44 NS	1300.0E		455.0D		15.0		
		245 SGMR	43 NS	1840.0	2109.0	227.0	100.0			QL=4 ST=2 TYP=1
		245 LEAR	8 S	0437.0	0437.0	2.0	140.0			QL=4 ST=2 TYP=3
		245 SVTO	4 S/F	0647.0	0648.0	3.0	210.0			QL=4 ST=3 TYP=3
		245 LEAR	8 S	0648.0	0648.0	2.0	170.0			QL=4 ST=2 TYP=3
		245 SVTO	8 S	0859.0	0859.0		63.0			QL=4 ST=2 TYP=3
		950 GORK	22 GRF	0933.0	1101.0	90.0D	27.0			
		9100 GORK	20 GRF	0948.7	1041.5	74.0D	23.7			
		2950 GORK	22 GRF	1014.3	1052.5	48.0D	9.7			
		610 SVTO	4 S/F	1101.0	1103.0	7.0	71.0			QL=2 ST=2 TYP=3
		245 SVTO	8 S	1102.0	1102.0	1.0	59.0			QL=4 ST=2 TYP=3
		245 SVTO	8 S	1105.0	1105.0		86.0			QL=2 ST=2 TYP=3
		245 SGMR	8 S	1146.0	1147.0	2.0	89.0			QL=4 ST=2 TYP=3
		33 UPIC	4 S/F	1521.2	1521.8	1.3				
		245 SGMR	8 S	1523.0	1523.0		150.0			QL=4 ST=2 TYP=3
		245 SGMR	8 S	1533.0	1534.0	1.0	50.0			QL=4 ST=3 TYP=3
		245 SGMR	8 S	1629.0	1629.0	1.0	74.0			QL=4 ST=2 TYP=3
		245 PALE	8 S	1840.0	1840.0	1.0	66.0			QL=2 ST=2 TYP=3
		245 PALE	8 S	1855.0	1855.0		62.0			QL=2 ST=2 TYP=3
245 PALE	4 S/F	1945.0	1948.0	3.0	66.0			QL=2 ST=2 TYP=3		
245 PALE	4 S/F	2107.0	2111.0	4.0	300.0			QL=2 ST=2 TYP=3		
245 PALE	4 S/F	2128.0	2131.0	3.0	160.0			QL=2 ST=2 TYP=3		
245 PALE	8 S	2138.0	2139.0	1.0	81.0			QL=2 ST=2 TYP=3		
09	L	280 CUBA	44 NS	1300.0E		450.0D		15.0		
		235 CUBA	44 NS	1300.0E		450.0D		10.0		
		2840 BEIJ	3 S	0449.0	0457.0	20.0	245.0		160.0	

S O L A R R A D I O E M I S S I O N  
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SEPTEMBER 1998

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks	
09	245	SVTO	4 S/F	0454.0	0456.0	4.0	440.0			QL=2 ST=2 TYP=3	
	1415	SVTO	4 S/F	0454.0	0456.0	7.0	130.0			QL=2 ST=2 TYP=3	
	15400	SVTO	4 S/F	0454.0	0456.0	7.0	150.0			QL=2 ST=2 TYP=3	
	8800	SVTO	4 S/F	0454.0	0456.0	7.0	170.0			QL=2 ST=2 TYP=3	
	410	SVTO	4 S/F	0454.0	0457.0	7.0	46.0			QL=2 ST=2 TYP=3	
	2950	GORK	47 GB	0454.4	0457.1	3.5	188.7				
	5730	IRKU	4 S/F	0454.5	0456.7	20.9	441.0		U		
	8800	LEAR	4 S/F	0455.0	0456.0	4.0	230.0				QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0455.0	0456.0	4.0	140.0				QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0455.0	0457.0	4.0	310.0				QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0455.0	0456.0	5.0	290.0				QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0455.0	0456.0	3.0	400.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0455.0	0456.0	6.0	220.0				QL=2 ST=2 TYP=3
	2695	SVTO	4 S/F	0455.0	0457.0	3.0	210.0				QL=2 ST=2 TYP=3
	2800	HIRA	4 S/F	0455.0	0457.0	11.0	210.0		60.0		0
	9100	GORK	4 S/F	0455.0	0456.7	3.2	264.3				
	950	GORK	4 S/F	0455.2	0456.2	3.5	39.0				
	33	UPIC	46 C	0455.5	0456.5	2.0					
	600	GORK	4 S/F	0455.6	0456.3	3.0	130.0				
	500	HIRA	46 C	0455.7	0457.0	12.0	20.0		3.0		0
	1415	LEAR	8 S	0456.0	0456.0	2.0	69.0				QL=4 ST=2 TYP=3
	610	LEAR	8 S	0456.0	0456.0		110.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	0456.0	0456.0		89.0				QL=2 ST=2 TYP=3
	410	LEAR	8 S	0457.0	0457.0		35.0				QL=4 ST=2 TYP=3
	2950	GORK	30 PBI	0457.9	0457.9	119.3	76.0				
	9100	GORK	29 PBI	0458.2	0458.2	14.4	88.1				
	600	GORK	30 PBI	0458.6	0458.6	16.0	8.0				
	950	GORK	30 PBI	0458.7	0458.7	10.3	23.0				
	2950	GORK	1 S	0501.2	0501.4	1.4	2.8				
	950	GORK	1 S	0501.5	0502.3	1.5	14.0				
	2950	GORK	1 S	0728.3	0729.0	1.5	3.0				
	245	LEAR	49 GB	0757.0	0758.0	1.0	3300.0				QL=4 ST=2 TYP=6
	410	LEAR	8 S	0757.0	0758.0	2.0	120.0				QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0758.0	0758.0	1.0	5600.0				QL=2 ST=2 TYP=6
	410	SVTO	8 S	0758.0	0758.0		210.0				QL=2 ST=2 TYP=3
	204	IZMI	41 F	0758.4	0758.8	1.0	150.0U				
	33	UPIC	46 C	0950.0	0950.5	3.0					
	33	UPIC	46 C	1045.5	1045.7	1.5					
	235	CUBA	6 S	1325.8	1326.2	0.8	141.0				
	245	SGMR	8 S	1326.0	1326.0	1.0	100.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1326.0	1326.0	1.0	98.0				QL=2 ST=2 TYP=3
	10	280	CUBA	44 NS	1300.0E		420.0D		17.0		
		235	CUBA	44 NS	1300.0E		420.0D		10.0		
		2804	VORO	21 GRF	0200.0	0300.0	111.0	7.9			
		245	LEAR	8 S	2343.0	2343.0	2.0	74.0			
245		PALE	8 S	2343.0	2343.0	1.0	79.0				QL=4 ST=2 TYP=3
11	235	CUBA	44 NS	1300.0E		450.0D		13.0			
	280	CUBA	44 NS	1300.0E		450.0D		17.0			
	9100	GORK	20 GRF	0415.0E	0419.3	17.0D	18.5				
	2950	GORK	8 S	0548.8	0548.9	0.2	19.3				
	2950	GORK	20 GRF	0626.2	0635.0	51.8	5.0				
	204	IZMI	7 C	0849.0	0849.4	2.0	79.0		40.0		
	3000	IZMI	22 GRF	0953.5	0956.5	13.0	6.2				
	3000	IZMI	41 F	1051.0	1052.4	3.0	22.8				
	2800	PENT	1 S	1522.0	1523.0	4.0	9.0				
	6700	CUBA	1 S	1522.9	1523.6	4.0	24.0		12.0		3A
	6700	CUBA	21 GRF	1556.0	1607.0	17.0	6.0		3.0		00L
	2800	PENT	41 F	1556.0	1601.0	24.0	34.0				
	235	CUBA	7 C	1600.0	1602.5	10.0	260.0				
	6700	CUBA	2 S/F	1600.5	1602.5	5.2	33.0		16.0		6R
	610	SGMR	49 GB	1601.0	1602.0	4.0	1700.0				QL=4 ST=2 TYP=6
	2695	SGMR	4 S/F	1601.0	1601.0	3.0	38.0				QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1601.0	1602.0	5.0	72.0				QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1601.0	1601.0	1.0	35.0				QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1601.0	1602.0	1.0	76.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1602.0	1602.0	8.0	33.0				QL=4 ST=2 TYP=3
4995	SGMR	8 S	1602.0	1602.0	2.0	27.0				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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Sep 98

SEPTEMBER 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		
11	410	SGMR	49 GB	1602.0	1604.0	8.0	660.0			QL=4 ST=2 TYP=6
	15400	SVTO	4 S/F	1602.0	1602.0	3.0	40.0			QL=4 ST=2 TYP=3
	610	SVTO	49 GB	1602.0	1602.0	1.0	920.0			QL=2 ST=2 TYP=6
	8800	SVTO	8 S	1602.0	1604.0	2.0	160.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1602.0	1604.0	6.0	590.0			QL=4 ST=2 TYP=6
	280	CUBA	7 C	1602.0	1606.3	8.0	273.0			
	245	SGMR	49 GB	1603.0	1603.0	7.0	600.0			QL=4 ST=2 TYP=6
	245	SVTO	4 S/F	1603.0	1603.0	6.0	440.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1643.0	1643.0	2.0	100.0			QL=4 ST=3 TYP=3
	410	PALE	4 S/F	2040.0	2043.0	4.0	78.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2040.0	2045.0	7.0	88.0			QL=4 ST=2 TYP=3
2800	PENT	41 F	2041.0	2043.0	11.0	6.0				
12	2950	GORK	21 GRF	0438.0	0447.3	21.0	6.6			
	2950	GORK	1 S	0446.7	0447.0	0.5	6.6			
	950	GORK	8 S	0446.8	0447.0	0.4	49.0			
	5730	IRKU	1 S	0446.9	0447.1	1.1	8.0		U	
	3000	IZMI	20 GRF	0638.0	0641.2	7.3	4.0			
	2950	GORK	21 GRF	0638.3	0641.0	7.2D	5.0			
	950	GORK	23 GRF	0706.0	0730.8	45.0D	22.0			
	3000	IZMI	42 SER	0742.0	0747.0	6.0	4.0			
	2950	GORK	42 SER	0742.2	0746.8	5.1	6.6			
	610	LEAR	4 S/F	0746.0	0746.0	3.0	8.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0746.0	0747.0	3.0	16.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0746.0	0746.0	3.0	90.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0746.0	0746.0	3.0	140.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0746.0	0746.0	1.0	89.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0746.0	0746.0	1.0	160.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0746.6	0746.8	11.5	180.0			
5730	IRKU	1 S	0746.7	0747.0	1.3	5.0		U		
5730	IRKU	8 S	0750.7	0750.8	0.2	14.0		U		
127	TORN	7 C	0802.0	0802.8	2.0	530.0	130.0			
950	GORK	42 SER	0842.2	0843.7	1.8	26.0				
13	204	IZMI	43 NS	0933.0		147.0U		20.0		
	9100	GORK	4 S/F	0504.4	0504.8	0.6	74.0			
	245	SVTO	8 S	0703.0	0703.0	1.0	130.0			QL=2 ST=2 TYP=3
	2840	BEIJ	1 S	0711.0	0712.0	2.0	5.2	3.8		
	2950	GORK	1 S	0711.5	0712.8	2.0	6.0			
	950	GORK	4 S/F	0712.1	0712.5	0.9	18.0			
	950	GORK	40 F	0847.8	0855.1	20.9	53.0			
	2950	GORK	22 GRF	0849.3	0901.7	70.0D	10.5			
2800	PENT	1 S	1818.0	1819.0	7.0	8.0				
14	127	TORN	43 NS	0910.0		240.0				V=0
	280	CUBA	44 NS	1300.0E		540.0D		16.0		
	235	CUBA	44 NS	1300.0E		540.0D		12.0		
	9100	GORK	1 S	0722.0	0722.1	0.2	35.0			
	33	UPIC	48 C	0933.0	0938.0	12.0				
	127	TORN	8 S	0933.0	0933.7	1.4	150.0	70.0		
	950	GORK	4 S/F	0933.2	0933.8	1.2	20.0			
	245	LEAR	4 S/F	0936.0	0937.0	4.0	75.0			QL=4 ST=2 TYP=3
	127	TORN	47 GB	0936.3	0937.4	6.7	740.0	70.0		
	245	SVTO	4 S/F	0937.0	0937.0	3.0	110.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0938.3	0941.7	4.5	580.0			
	3000	IZMI	1 S	1018.5	1019.2	1.5	1.5			
	127	TORN	4 S/F	1045.7	1047.3	2.3	120.0	30.0		
	33	UPIC	46 C	1045.7	1047.5	6.3				
	410	SVTO	48 C	1046.0	1049.0	4.0	96.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	1046.0	1051.0	5.0	210.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	1046.5	1049.5	5.5	80.0			
	127	TORN	48 C	1048.8	1051.6	3.0	190.0	20.0		
	33	UPIC	46 C	1328.0	1333.3	6.0				
	245	SGMR	8 S	1333.0	1333.0		100.0			QL=4 ST=2 TYP=3
410	SGMR	8 S	1333.0	1333.0		110.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1333.0	1333.0		130.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1333.0	1333.0		120.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1422.0	1423.0	1.0	64.0			QL=4 ST=3 TYP=3	
6700	CUBA	1 S	1605.4	1605.8	1.5	6.0	3.0		33A	



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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
14	245 SGMR	4 S/F	2145.0	2150.0	6.0	70.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	2150.0	2150.0	1.0	88.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	2200.0	2201.0	1.0	280.0			QL=4 ST=2 TYP=3
	410 PALE	4 S/F	2200.0	2200.0	3.0	53.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	2200.0	2201.0	1.0	180.0			QL=2 ST=2 TYP=3
	410 SGMR	4 S/F	2200.0	2200.0	7.0	50.0			QL=2 ST=2 TYP=3
	245 PALE	8 S	2239.0	2239.0	U	200.0			QL=4 ST=2 TYP=3
15	280 CUBA	44 NS	1300.0E		450.0D		12.0		
	235 CUBA	44 NS	1300.0E		450.0D		9.0		
	2840 BEIJ	45 C	0434.9	0435.0	1.0	7.6	6.3		
	5730 IRKU	8 S	0444.5	0444.6	0.1	2.0	U		
	3000 IZMI	7 C	1114.3	1114.4	3.0	19.5			
16	235 CUBA	44 NS	1300.0E		540.0D		10.0		
	280 CUBA	44 NS	1300.0E		540.0D		14.0		
	127 TORN	7 C	1326.6	1328.6	3.0	360.0	50.0		
17	410 SGMR	43 NS	1839.0	1843.0	40.0	110.0			QL=4 ST=2 TYP=1
19	5730 IRKU	1 S	0446.0	0447.8	5.0	4.0	U		
	33 UPIC	46 C	0825.8	0826.5	1.5				
	33 UPIC	46 C	0842.8	0844.0	3.4				
	204 IZMI	42 SER	0919.0		68.0		10.0		
	3000 IZMI	7 C	1000.3	1002.2	10.0	29.0			
	33 UPIC	45 C	1031.7	1032.0	1.3				
	33 UPIC	46 C	1118.0	1122.0	6.0				
	33 UPIC	48 C	1203.8	1204.5	3.7				
	2800 PENT	1 S	2101.0	2102.0	3.0	5.0			
	245 PALE	8 S	2103.0	2103.0	U	89.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	2103.0	2103.0	U	96.0			QL=4 ST=2 TYP=3
20	280 CUBA	44 NS	1300.0E		530.0D		11.0		
	235 CUBA	44 NS	1300.0E		530.0D		8.0		
	2700 PURP	45 C	0029.0	0039.7	15.0	20.0			
	2840 BEIJ	45 C	0234.0	0240.0	104.0	450.0	349.0		
	1415 LEAR	4 S/F	0236.0	0241.0	22.0	95.0			
	5730 IRKU	46 C	0236.0	0240.0U	144.0U	39.0U			QL=4 ST=2 TYP=3
	2804 VORO	4 S/F	0236.2	0240.8	38.4	69.6			
	2695 LEAR	4 S/F	0237.0	0240.0	26.0	340.0			QL=4 ST=2 TYP=3
	1415 PALE	4 S/F	0237.0	0241.0	20.0	100.0			QL=4 ST=2 TYP=3
	2695 PALE	4 S/F	0238.0	0240.0	28.0	300.0			QL=4 ST=2 TYP=3
	2700 PURP	42 SER	0238.0	0313.5	72.1	46.0			
	4995 LEAR	4 S/F	0239.0	0240.0	24.0	210.0			QL=4 ST=2 TYP=3
	8800 LEAR	4 S/F	0240.0	0240.0	5.0	65.0			QL=4 ST=2 TYP=3
	15400 LEAR	8 S	0240.0	0240.0	1.0	27.0			QL=4 ST=2 TYP=3
	8800 PALE	4 S/F	0240.0	0240.0	3.0	48.0			QL=4 ST=2 TYP=3
	15400 PALE	4 S/F	0240.0	0242.0	4.0	45.0			QL=4 ST=2 TYP=3
	4995 PALE	4 S/F	0240.0	0240.0	26.0	200.0			QL=2 ST=2 TYP=3
	2804 VORO	29 PBI	0314.2	0314.2	50.0	17.4			QL=4 ST=2 TYP=3
	2804 VORO	2 S/F	0352.5	0354.4	4.0	6.6			
	2950 GORK	22 GRF	0400.0E	0400.0E	5.1D	0.7U			
	2950 GORK	1 S	0513.1	0513.3	0.5	4.5			
	2950 GORK	20 GRF	0609.7	0700.3	77.5	5.0			
	5730 IRKU	20 GRF	0610.0	0635.0	78.0	6.0			U
	204 IZMI	41 F	0628.7	0629.2	2.8	66.0			
	245 SVTO	8 S	0629.0	0629.0	U	150.0			
	2700 PURP	47 GB	0649.0	0705.0	16.0	1018.0			QL=4 ST=2 TYP=3
	33 UPIC	42 SER	0944.3	1031.0U	117.2				
	204 IZMI	42 SER	1009.5	1010.5	3.5	6.0			
	204 IZMI	42 SER	1024.5	1030.5	36.0	485.0			
	245 SVTO	48 C	1028.0	1030.0	3.0	490.0			
	410 SVTO	48 C	1028.0	1030.0	3.0	300.0			QL=4 ST=2 TYP=8
	245 SVTO	8 S	1035.0	1036.0	1.0	77.0			QL=4 ST=3 TYP=3
410 SVTO	8 S	1035.0	1036.0	1.0	91.0			QL=4 ST=3 TYP=3	
127 TORN	48 C	1035.0	1037.4	4.0	270.0	60.0		UNCERTAIN	
245 SVTO	8 S	1036.0	1036.0	U	77.0			QL=4 ST=2 TYP=3	
410 SVTO	8 S	1036.0	1036.0	U	91.0			QL=4 ST=2 TYP=3	
410 SGMR	4 S/F	1133.0	1138.0	6.0	28.0			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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Sep 98

SEPTEMBER 1998

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
20	245	SGMR	4 S/F	1133.0	1133.0	7.0	67.0			QL=4 ST=2 TYP=3
		IZMI	42 SER	1133.0	1139.7	12.0	940.0			
	245	SVTO	8 S	1138.0	1138.0	2.0	84.0			QL=2 ST=2 TYP=3
		SVTO	8 S	1138.0	1138.0	2.0	41.0			QL=2 ST=2 TYP=3
	6700	CUBA	20 GRF	1336.0	1341.0	21.0D	8.0			12A
	245	SVTO	8 S	1340.0	1341.0	2.0	150.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1341.0	1341.0	1.0	110.0			QL=4 ST=2 TYP=3
	235	CUBA	6 S	1341.0	1341.9	1.0	85.0			
	6700	CUBA	1 S	1720.9	1725.2	7.1	5.0	2.0		15L
	2800	PENT	1 S	1902.0	1903.0	2.0	5.0			
21	280	CUBA	44 NS	1300.0E		285.0D		11.0		
	5730	IRKU	1 S	0516.0	0521.0	11.8	4.0		U	
	204	IZMI	7 C	0639.0	0639.2	0.7	20.0U			
	2950	GORK	22 GRF	0729.0	0730.0	124.0	12.6			
	5730	IRKU	20 GRF	0732.4	0802.6	110.6	15.0		U	
	3000	IZMI	22 GRF	0736.0	0739.0	49.0	9.6			
	245	SVTO	8 S	0827.0	0827.0		110.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1100.0	1100.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1100.0	1100.0	1.0	220.0			QL=4 ST=2 TYP=3
	2800	PENT	4 S/F	1813.0	1815.0	47.0	29.0			
	410	PALE	8 S	2015.0	2015.0		100.0		U	QL=4 ST=2 TYP=3
	410	SGMR	8 S	2015.0	2015.0	1.0	89.0			QL=4 ST=2 TYP=3
	2800	PENT	41 F	2145.0	2158.0	20.0	3.0			
	2800	PENT	3 S	2328.0	2341.0	32.0	32.0			
	4995	LEAR	48 C	2339.0	2343.0	6.0	73.0			QL=4 ST=2 TYP=8
	2695	LEAR	4 S/F	2339.0	2340.0	5.0	36.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	2340.0	2343.0	4.0	38.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2340.0	2343.0	4.0	73.0			QL=4 ST=2 TYP=3
	5400	LEAR	8 S	2343.0	2343.0		26.0		U	QL=4 ST=2 TYP=3
22	204	IZMI	43 NS	0600.0		360.0D		5.0		
	235	CUBA	44 NS	1300.0E		530.0D		10.0		
	280	CUBA	44 NS	1300.0E		530.0D		14.0		
	610	LEAR	8 S	0043.0	0043.0		67.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0043.0	0043.0		65.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0117.0	0117.0		53.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0149.8	0151.7	6.5	2.0		U	
	5730	IRKU	1 S	0213.3	0213.9	1.2	2.0		U	
	5730	IRKU	1 S	0220.4	0221.0	1.6	2.0		U	
	5730	IRKU	4 S/F	0238.7	0239.0	1.0	4.0		U	
	5730	IRKU	4 S/F	0250.3	0250.8	17.7	5.0		U	
	5730	IRKU	4 S/F	0331.0	0335.0	11.0U	7.0		U	
	5730	IRKU	4 S/F	0426.5	0428.5	3.5	2.0		U	
	5730	IRKU	2 S/F	0457.6	0458.1	1.4	6.0		U	
	5730	IRKU	21 GRF	0508.0	0508.8	6.5	2.0		U	
	5730	IRKU	1 S	0518.6	0521.7	5.4	3.0		U	
	5730	IRKU	1 S	0611.4	0613.0	2.6	1.0		U	
	5730	IRKU	1 S	0615.0	0620.0	29.0	2.0		U	
	3000	IZMI	22 GRF	0616.4	0620.8	29.0	5.7			
	5730	IRKU	1 S	0713.2	0715.0	7.8	2.0		U	
	410	SVTO	8 S	1100.0	1101.0	1.0	120.0			QL=4 ST=2 TYP=3
	3000	IZMI	1 S	1100.0	1101.2	1.4	2.8			
	33	UPIC	46 C	1100.5	1101.5	2.8				
	245	SGMR	4 S/F	1740.0	1742.0	3.0	52.0			QL=4 ST=2 TYP=3
	235	CUBA	6 S	1744.0	1744.3	0.7	111.0			
	410	PALE	8 S	1918.0	1919.0	2.0	80.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	1919.0	1919.0		25.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1921.0	1923.0	2.0	37.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1921.0	1922.0	2.0	16.0			QL=4 ST=2 TYP=3
	235	CUBA	6 S	1921.0	1921.5	1.0	69.0			
	245	PALE	8 S	1922.0	1922.0	1.0	130.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1922.0	1923.0	2.0	120.0			QL=2 ST=2 TYP=3
	410	SGMR	48 C	1922.0	1923.0	3.0	91.0			QL=4 ST=2 TYP=8
610	PALE	8 S	1923.0	1923.0	1.0	45.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1923.0	1923.0	2.0	39.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1923.0	1923.0	2.0	38.0			QL=4 ST=2 TYP=3	
6700	CUBA	20 GRF	2046.0	2107.0	32.0D	9.0	4.0		00L 2118 DOWN	
410	PALE	8 S	2224.0	2224.0		73.0			QL=2 ST=2 TYP=3	

S O L A R R A D I O E M I S S I O N  
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SEPTEMBER 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			
22	245	PALE	8 S	2224.0	2224.0	U	31.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	2310.0	2310.0	U	60.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2310.0	2310.0	U	100.0			QL=4 ST=2 TYP=3	
	2800	PENT	41 F	2340.0	2353.0	64.0	14.0				
23	33	UPIC	43 NS	0700.0		368.0					
	204	IZMI	43 NS	0725.0		351.5D		150.0			
	245	SVTO	44 NS	0747.0E	1039.0	503.0D	840.0			QL=4 ST=3 TYP=1	
	410	SVTO	44 NS	0748.0E	1348.0	495.0D	310.0			QL=4 ST=3 TYP=1	
	245	SGMR	43 NS	1052.0	1155.0	430.0	520.0			QL=4 ST=3 TYP=1	
	410	SGMR	43 NS	1105.0	1133.0U	113.0	88.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1152.0	1155.0	370.0	520.0			QL=4 ST=2 TYP=1	
	235	CUBA	44 NS	1300.0E		456.0D		36.0			
	280	CUBA	44 NS	1300.0E		450.0D		47.0			
	410	SGMR	43 NS	1305.0	1454.0	174.0	520.0				QL=4 ST=3 TYP=1
	245	PALE	43 NS	1645.0	1649.0U	26.0	75.0				QL=2 ST=3 TYP=1
	610	SVTO	49 GB	0000.0	0000.0	U	1500.0				QL=4 ST=3 TYP=6
	2840	BEIJ	4 S/F	0020.0	0030.8	40.0	20.5	14.6			
	5730	IRKU	42 SER	0029.3	0030.7	12.2	35.0		U		
	610	LEAR	8 S	0050.0	0051.0	2.0	75.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0050.0	0051.0	2.0	23.0				QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0050.0	0051.0	7.0	22.0				QL=2 ST=2 TYP=3
	610	PALE	8 S	0050.0	0051.0	2.0	74.0				QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0051.0	0054.0	4.0	95.0				QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0053.0	0054.0	3.0	97.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0238.0	0239.0	1.0	82.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0238.0	0239.0	2.0	95.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0257.0	0257.0	U	53.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0257.0	0257.0	U	56.0				QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0355.0	0000.0	1205.0	1.0				QL=2 ST=2 TYP=3
	245	LEAR	8 S	0413.0	0413.0	U	92.0				QL=4 ST=2 TYP=3
	2840	BEIJ	47 GB	0620.0	0701.0	109.0	1134.0	793.0			
	204	IZMI	41 F	0627.0	0628.1	4.8	57.0				
	600	GORK	4 S/F	0627.5	0629.2	4.6	26.0				
	410	LEAR	8 S	0628.0	0629.0	1.0	63.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0628.0	0628.0	1.0	48.0				QL=4 ST=2 TYP=3
	3000	IZMI	45 C	0640.5	0704.5	103.0	1101.0				
	2950	GORK	47 GB	0641.0	0703.6	47.0	924.0				
	9100	GORK	28 PRE	0643.2	0649.6	7.8	113.0				
	5730	IRKU	48 C	0643.5	0700.5	167.5D	1828.0		U		
	2695	LEAR	48 C	0645.0	0704.0	62.0	1100.0				QL=4 ST=2 TYP=8
	2695	SVTO	49 GB	0645.0	0704.0	60.0	1100.0				QL=4 ST=3 TYP=6
	950	GORK	47 GB	0646.3	0702.4	19.7	780.0				
	1415	LEAR	48 C	0647.0	0654.0	56.0	1400.0				QL=4 ST=2 TYP=8
	1415	SVTO	49 GB	0647.0	0654.0	53.0	1300.0				QL=4 ST=3 TYP=6
	610	SVTO	49 GB	0647.0	0656.0	64.0	1400.0				QL=4 ST=2 TYP=6
	4995	SVTO	49 GB	0647.0	0656.0	64.0	1200.0				QL=4 ST=3 TYP=6
	15400	SVTO	49 GB	0647.0	0647.0	61.0	840.0				QL=4 ST=3 TYP=6
	610	SVTO	49 GB	0647.0	0000.0	1033.0	1400.0				QL=4 ST=2 TYP=6
	600	GORK	28 PRE	0647.0	0652.1	5.1	13.0				
	4995	LEAR	48 C	0649.0	0656.0	66.0	1400.0				QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0651.0	0656.0	50.0	1500.0				QL=4 ST=2 TYP=8
8800	SVTO	49 GB	0651.0	0656.0	57.0	1300.0				QL=4 ST=3 TYP=6	
9100	GORK	47 GB	0651.0	0656.7	21.0	1095.0					
15400	LEAR	48 C	0652.0	0656.0	31.0	1000.0				QL=4 ST=2 TYP=8	
610	LEAR	48 C	0652.0	0656.0	55.0	1800.0				QL=4 ST=2 TYP=8	
410	LEAR	48 C	0652.0	0709.0	55.0	1300.0				QL=4 ST=2 TYP=8	
610	SVTO	49 GB	0652.0	0657.0	54.0	1500.0				QL=4 ST=3 TYP=6	
410	SVTO	49 GB	0652.0	0709.0	56.0	2100.0				QL=4 ST=3 TYP=6	
610	SVTO	49 GB	0652.0	0657.0	50.0	1700.0				QL=2 ST=3 TYP=6	
600	GORK	47 GB	0652.1	0657.0	59.9	1954.0					
204	IZMI	45 C	0653.5	0714.0	31.0	500.0					
245	LEAR	48 C	0655.0	0711.0	52.0	2900.0				QL=4 ST=2 TYP=8	
245	SVTO	49 GB	0655.0	0711.0	52.0	3400.0				QL=4 ST=3 TYP=6	
33	UPIC	48 C	0700.0	0701.0	14.5						
950	GORK	30 PBI	0706.0	0706.0	52.0	308.0					
2950	GORK	30 PBI	0722.0	0722.0	204.0	206.0					
600	GORK	30 PBI	0752.0	0753.4	17.0D	70.0					
245	LEAR	49 GB	0814.0	0818.0	5.0	2000.0				QL=4 ST=2 TYP=6	

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

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Sep 98

SEPTEMBER 1998

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density (10 -22 W/m 2 Hz)		Int	Remarks
							Peak	Mean		
23	410	SVTO	49 GB	0814.0	0818.0	6.0	1300.0			QL=4 ST=2 TYP=6
	245	SVTO	48 C	0815.0	0818.0	5.0	3700.0			QL=4 ST=2 TYP=8
	3000	IZMI	7 C	0831.8	0833.0	4.5	6.4			
	600	GORK	4 S/F	0832.0	0834.4	3.6	94.0			
	2950	GORK	45 C	0832.3	0833.3	5.4	10.0			
	9100	GORK	41 F	0833.0	0834.9	2.2	27.6			
	204	IZMI	45 C	0943.5	0950.1	52.0	500.0			
	245	SVTO	49 GB	1000.0	1001.0	2.0	730.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	1005.0	1007.0	7.0	1700.0			QL=2 ST=2 TYP=6
	33	UPIC	48 C	1113.5	1115.3	10.0				
	235	CUBA	6 S	1312.1	1312.2	1.3	173.0			
	6700	CUBA	20 GRF	1431.0	1458.0	142.0	11.0	5.0		17L
	245	PALE	4 S/F	1940.0	1941.0	3.0	350.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	1940.0	1941.0	1.0	22.0			QL=2 ST=2 TYP=3
	410	SGMR	4 S/F	1940.0	1941.0	6.0	24.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1940.0	1941.0	7.0	320.0			QL=4 ST=2 TYP=3
	6700	CUBA	20 GRF	1941.0	1947.0	23.0	8.0	4.0		15L
	410	PALE	4 S/F	1942.0	1948.0	7.0	21.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1943.0	1943.0	1.0	82.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1946.0	1946.0		58.0			QL=2 ST=2 TYP=3
	245	SGMR	49 GB	2140.0	2140.0		7300.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	2140.0	2140.0		24.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2155.0	2155.0		76.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	2155.0	2155.0	1.0	45.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2222.0	2222.0	1.0	100.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	2222.0	2222.0	2.0	33.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	2246.0	2247.0	1.0	65.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	2246.0	2247.0	1.0	52.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2246.0	2246.0	1.0	180.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	2246.0	2247.0	2.0	130.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	2246.0	2247.0	2.0	86.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	2246.0	2246.0	1.0	47.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	2246.0	2246.0	2.0	830.0			QL=4 ST=2 TYP=6
	4995	LEAR	8 S	2246.0	2247.0	1.0	72.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2246.0	2246.0	2.0	130.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2246.0	2246.0	2.0	89.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2246.0	2247.0	1.0	84.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2246.0	2246.0	1.0	1000.0			QL=2 ST=2 TYP=6
	410	PALE	8 S	2246.0	2246.0	2.0	230.0			QL=2 ST=2 TYP=3
	2695	PALE	8 S	2246.0	2247.0	1.0	32.0			QL=4 ST=2 TYP=3
1415	PALE	8 S	2246.0	2247.0	1.0	53.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	2246.0	2247.0	1.0	78.0			QL=4 ST=2 TYP=3	
2840	BEIJ	3 S	2340.0	2349.8	20.0	20.5	14.6			
24	204	IZMI	44 NS	0600.0E		360.0D		50.0		
	245	SVTO	43 NS	0635.0	1421.0	588.0	440.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0736.0	0835.0	77.0	160.0			QL=4 ST=2 TYP=1
	33	UPIC	43 NS	0814.0	1330.0U	369.5				
	245	SGMR	43 NS	1132.0	1417.0	634.0	500.0			QL=4 ST=2 TYP=1
	280	CUBA	44 NS	1300.0E		420.0D		27.0		
	235	CUBA	44 NS	1300.0E		420.0D		26.0		
	245	PALE	43 NS	1653.0	0009.0	676.0	990.0			QL=2 ST=2 TYP=1
	245	LEAR	43 NS	2228.0	0736.0	695.0	400.0			QL=4 ST=2 TYP=1
	4995	SVTO	4 S/F	0033.0	0835.0	483.0	38.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0142.0	0142.0	1.0	280.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	0142.0	0144.0	3.0	22.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0142.0	0142.0	1.0	440.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0144.0	0144.0		31.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0302.0	0302.0	1.0	51.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0302.0	0302.0		59.0			QL=2 ST=2 TYP=3
	245	PALE	4 S/F	0319.0	0321.0	7.0	66.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0323.0	0323.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0422.0	0422.0		110.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0432.0	0435.7	8.0	8.0			U
245	LEAR	49 GB	0433.0	0433.0	1.0	840.0			QL=4 ST=2 TYP=6	
245	SVTO	4 S/F	0513.0	0515.0	3.0	89.0			QL=2 ST=2 TYP=3	
245	LEAR	8 S	0514.0	0515.0	1.0	72.0			QL=4 ST=2 TYP=3	
2840	BEIJ	40 F	0806.0	0813.8	44.0	10.5	7.3			
3000	IZMI	40 F	0811.5		17.0		6.0			

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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 <sup>2</sup> Hz)	Mean (2 Hz)		
24	2950	GORK	22 GRF	0811.5	0813.8	46.5	10.0			
	4995	SVTO	8 S	0813.0	0813.0		32.0			
	950	GORK	47 GB	0813.3	0834.6	22.7	377.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	0814.0	0816.0	11.0	370.0			QL=2 ST=2 TYP=8
	245	LEAR	8 S	0816.0	0816.0	1.0	230.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0818.0	0822.0	5.0	73.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0818.0	0822.0	6.0	120.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0818.0	0821.0	6.0	120.0			QL=4 ST=2 TYP=3
	1415	SVTO	48 C	0818.0	0822.0	5.0	86.0			QL=4 ST=2 TYP=8
	1415	SVTO	4 S/F	0818.0	0822.0	5.0	73.0			QL=/ ST=2 TYP=3
	610	SVTO	8 S	0818.0	0819.0	2.0	120.0			QL=2 ST=2 TYP=3
	410	SVTO	4 S/F	0818.0	0821.0	6.0	190.0			QL=4 ST=2 TYP=3
	600	GORK	41 F	0818.8	0834.0	17.2	537.0			
	33	UPIC	46 C	0820.0	0823.5	6.0				
	245	LEAR	8 S	0829.0	0831.0	2.0	94.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0829.0	0831.0	3.0	49.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0830.0	0831.0	2.0	30.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0830.0	0831.0	2.0	39.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	0831.0	0834.0	5.0	370.0			QL=2 ST=2 TYP=8
	1415	LEAR	8 S	0833.0	0834.0	1.0	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0833.0	0834.0	2.0	62.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	0833.0	0833.0	2.0	72.0			QL=2 ST=2 TYP=8
	1415	SVTO	8 S	0833.0	0834.0	1.0	150.0			QL=4 ST=2 TYP=3
	3000	IZMI	7 C	0833.5	0835.1	3.5	6.5			
	610	LEAR	8 S	0834.0	0834.0		27.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0834.0	0835.0	1.0	28.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0835.0	0835.0		86.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1214.0	1214.0	1.0	250.0			QL=2 ST=2 TYP=3
	235	CUBA	6 S	1324.7	1324.7	0.6	122.0			
	245	SVTO	48 C	1335.0	1356.0	25.0	360.0			QL=2 ST=2 TYP=8
	245	SGMR	8 S	1355.0	1356.0	2.0	380.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1420.0	1421.0	2.0	340.0			QL=4 ST=2 TYP=3
	235	CUBA	6 S	1423.1	1424.6	1.5	568.0			
	410	SVTO	8 S	1614.0	1615.0	2.0	80.0			QL=2 ST=2 TYP=3
	6700	CUBA	1 S	1614.2	1616.1	3.1	10.0	5.0		13L
	280	CUBA	6 S	1615.0	1616.0	1.9	427.0			
	245	SGMR	8 S	1615.0	1615.0		300.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1615.0	1615.0	1.0	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1615.0	1615.0		180.0			QL=2 ST=2 TYP=3
	235	CUBA	6 S	1615.0	1615.1	1.0	280.0			
410	SGMR	8 S	1619.0	1619.0	1.0	180.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1619.0	1619.0		250.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1620.0	1620.0		140.0			QL=4 ST=2 TYP=3	
235	CUBA	6 S	1745.0	1745.3	1.0	232.0				
280	CUBA	6 S	1746.0	1747.0	1.2	310.0				
235	CUBA	7 C	1759.0	1802.0	3.0	138.0				
2800	PENT	41 F	2137.0	2138.0	9.0	6.0				
25	245	SVTO	43 NS	0459.0	0736.0	682.0	680.0			QL=4 ST=3 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		80.0		
	127	TORN	44 NS	1020.0E		280.0D		9.0		V=2
	245	SGMR	43 NS	1054.0	1108.0	658.0	470.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2357.0	0110.0	606.0	190.0			QL=4 ST=2 TYP=1
	245	LEAR	49 GB	0006.0	0009.0	3.0	500.0			QL=4 ST=2 TYP=6
	245	LEAR	49 GB	0108.0	0109.0	3.0	720.0			QL=4 ST=2 TYP=6
	5730	IRKU	4 S/F	0231.0	0231.8	3.0	7.0			U
	245	LEAR	49 GB	0238.0	0243.0	7.0	640.0			QL=4 ST=2 TYP=6
	2840	BEIJ	1 S	0245.0	0248.5	8.0	5.9	4.3		
	245	SVTO	49 GB	0555.0	0557.0	3.0	940.0			QL=2 ST=3 TYP=6
	245	LEAR	49 GB	0556.0	0557.0	2.0	610.0			QL=4 ST=2 TYP=6
	245	LEAR	8 S	0612.0	0612.0		260.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0612.0	0612.0	1.0	480.0			QL=2 ST=2 TYP=3
	245	LEAR	49 GB	0616.0	0617.0	1.0	850.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0616.0	0617.0	1.0	1400.0			QL=2 ST=2 TYP=6
	245	LEAR	49 GB	0641.0	0643.0	5.0	580.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0642.0	0643.0	4.0	790.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	0714.0	0717.0	5.0	1400.0			QL=2 ST=2 TYP=6
	245	LEAR	49 GB	0715.0	0717.0	3.0	830.0			QL=4 ST=2 TYP=6
245	LEAR	49 GB	0742.0	0742.0	1.0	560.0			QL=4 ST=2 TYP=6	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		Int	Remarks
							Peak	Mean		
25	245	SVTO	49 GB	0742.0	0742.0	1.0	870.0			QL=2 ST=2 TYP=6
	245	LEAR	49 GB	0804.0	0804.0	1.0	580.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0804.0	0804.0	U	810.0			QL=2 ST=2 TYP=6
	33	UPIC	42 SER	0858.0	1203.5	254.0				
	245	SVTO	49 GB	1009.0	1011.0	3.0	960.0			QL=2 ST=2 TYP=6
26	245	SVTO	43 NS	0508.0	0904.0	671.0	180.0			QL=4 ST=2 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		40.0		
	127	TORN	43 NS	0800.0		270.0		1.0		V=1, DISTURBED
	245	SGMR	43 NS	1133.0	1504.0	584.0	300.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1950.0	1850.0	91.0	200.0			QL=2 ST=2 TYP=1
	245	PALE	43 NS	2039.0	2259.0	312.0	85.0			QL=2 ST=2 TYP=1
	245	LEAR	43 NS	2246.0	0129.0	332.0	97.0			QL=4 ST=2 TYP=1
	5730	IRKU	1 S	0505.0	0506.8	6.0	3.0		U	
	245	LEAR	8 S	0550.0	0551.0	1.0	490.0			
	1415	LEAR	4 S/F	0645.0	0649.0	6.0	12.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0645.0	0649.0	4.0	13.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0645.0	0648.0	6.0	300.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0645.0	0647.0	6.0	130.0			QL=4 ST=2 TYP=3
	5730	IRKU	46 C	0645.2	0648.0	15.7	52.0		U	
	4995	LEAR	4 S/F	0646.0	0648.0	5.0	40.0			QL=4 ST=2 TYP=3
	2840	BEIJ	40 F	0647.0	0648.0	8.0	11.0		8.0	
	8800	LEAR	8 S	0647.0	0647.0	1.0	17.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0647.0	0648.0	4.0	20.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0647.0	0648.0	2.0	740.0			QL=2 ST=2 TYP=6
	8800	SVTO	8 S	0647.0	0647.0	1.0	21.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0647.0	0647.0	1.0	20.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0647.0	0648.0	1.0	46.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0647.0	0648.0	1.0	46.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0647.0	0647.0	1.0	280.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	0647.0	0649.0	2.0	17.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0647.0	0648.0	2.0	15.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0647.0	0000.0	115.0	46.0			QL=4 ST=2 TYP=3
	600	GORK	45 C	0647.5	0649.2	2.2	18.0			
	2950	GORK	41 F	0647.6	0648.0	3.6	8.6			
	2950	GORK	29 PBI	0651.2	0651.2	5.2	4.0			
	204	IZMI	45 C	0732.5	0732.7	2.0	2750.0			
	245	SVTO	8 S	0900.0	0900.0	U	400.0			
	245	SVTO	8 S	1059.0	1059.0	U	170.0			QL=2 ST=2 TYP=3
127	TORN	46 C	1335.0	1337.4	8.0	330.0		60.0		
33	UPIC	46 C	1341.5	1343.5	9.5					
410	SGMR	8 S	1353.0	1354.0	1.0	100.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1353.0	1353.0	1.0	370.0			QL=4 ST=2 TYP=3	
245	SVTO	49 GB	1353.0	1353.0	1.0	500.0			QL=2 ST=2 TYP=6	
410	SVTO	8 S	1353.0	1354.0	1.0	67.0			QL=4 ST=2 TYP=3	
2800	PENT	8 S	1621.0	1622.0	11.0D	91.0				
245	SGMR	49 GB	1622.0	1623.0	1.0	1000.0			QL=4 ST=3 TYP=6	
4995	SGMR	8 S	1623.0	1623.0	U	100.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1623.0	1623.0	U	360.0			QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1623.0	1623.0	U	83.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	1623.0	1623.0	U	45.0			QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1623.0	1623.0	U	740.0			QL=4 ST=2 TYP=6	
2800	PENT	1 S	1809.0	1812.0	7.0	4.0				
245	LEAR	49 GB	2315.0	2315.0	1.0	1300.0			QL=4 ST=2 TYP=6	
245	PALE	49 GB	2315.0	2315.0	1.0	1700.0			QL=2 ST=2 TYP=6	
27	204	IZMI	44 NS	0600.0E		360.0D		10.0		
	245	SVTO	43 NS	0614.0	0639.0	40.0	100.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0620.0E		520.0D		20.0		V=1, DISTURBED
	2840	BEIJ	45 C	0226.0	0240.0	26.0	20.5		15.2	
	5730	IRKU	3 S	0235.0	0240.5	34.5	10.0		U	
	2695	LEAR	8 S	0240.0	0240.0	U	22.0			QL=4 ST=2 TYP=3
	5730	IRKU	45 C	0355.8	0358.9	19.2	23.0		U	
	2840	BEIJ	22 GRF	0356.0	0359.0	12.0	5.9		4.3	
	2840	BEIJ	1 S	0422.0	0426.0	7.0	3.5		2.6	
	410	LEAR	8 S	0512.0	0512.0	U	190.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	0512.0	0516.0	4.0	7800.0			QL=4 ST=2 TYP=8
410	LEAR	49 GB	0514.0	0516.0	2.0	3900.0			QL=4 ST=2 TYP=6	
204	IZMI	42 SER	0744.2	0744.8	6.0	275.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
27	L	33	UPIC	42	SER	0744.3	0809.0	547.7		
		3000	IZMI	45	C	0805.5	0809.0U	25.0	90.0U	
		2840	BEIJ	45	C	0806.0	0808.0	18.0	415.0	308.0
		33	UPIC	48	C	0807.0	0809.0	6.0		
		204	IZMI	45	C	0807.3	0809.3	6.5	500.0	
		5730	IRKU	4	S/F	0807.6	0809.3	37.4	252.0	U
		2950	GORK	47	GB	0807.7	0809.0E	2.0U	26.5U	
		600	GORK	46	C	0807.7	0808.6	1.6	519.0	
		9100	GORK	3	S	0807.8	0809.0	2.2	155.0	
		950	GORK	4	S/F	0807.9	0808.3	2.8	81.0	
		245	LEAR	8	S	0808.0	0808.0	2.0	270.0	QL=4 ST=2 TYP=3
		2695	LEAR	4	S/F	0808.0	0809.0	4.0	390.0	QL=4 ST=2 TYP=3
		15400	LEAR	8	S	0808.0	0809.0	1.0	34.0	QL=4 ST=2 TYP=3
		4995	LEAR	4	S/F	0808.0	0809.0	4.0	260.0	QL=4 ST=2 TYP=3
		1415	LEAR	8	S	0808.0	0809.0	2.0	82.0	QL=4 ST=2 TYP=3
		8800	LEAR	4	S/F	0808.0	0808.0	3.0	140.0	QL=4 ST=2 TYP=3
		410	LEAR	49	GB	0808.0	0808.0	U	670.0	QL=4 ST=2 TYP=6
		610	LEAR	49	GB	0808.0	0808.0	1.0	520.0	QL=4 ST=2 TYP=6
		15400	SVTO	8	S	0808.0	0808.0	1.0	38.0	QL=4 ST=2 TYP=3
		4995	SVTO	4	S/F	0808.0	0809.0	6.0	280.0	QL=4 ST=2 TYP=3
		2695	SVTO	4	S/F	0808.0	0809.0	4.0	410.0	QL=4 ST=2 TYP=3
		2695	SVTO	4	S/F	0808.0	0809.0	4.0	410.0	QL=4 ST=2 TYP=3
		1415	SVTO	8	S	0808.0	0809.0	2.0	90.0	QL=4 ST=2 TYP=3
		8800	SVTO	4	S/F	0808.0	0808.0	4.0	140.0	QL=4 ST=2 TYP=3
		410	SVTO	49	GB	0808.0	0808.0	1.0	760.0	QL=4 ST=2 TYP=6
		610	SVTO	49	GB	0808.0	0808.0	1.0	580.0	QL=4 ST=2 TYP=6
		245	SVTO	8	S	0808.0	0808.0	1.0	430.0	QL=4 ST=2 TYP=3
		2695	SVTO	4	S/F	0808.0	0809.0	952.0	410.0	QL=4 ST=2 TYP=3
		600	GORK	30	PBI	0809.3	0809.5	3.5	7.0	
		9100	GORK	29	PBI	0810.0	0810.0	6.0	63.0	
		2950	GORK	29	PBI	0811.0	0811.0	19.0	60.0	
		245	LEAR	8	S	0817.0	0817.0	1.0	130.0	QL=4 ST=2 TYP=3
		245	SVTO	8	S	0817.0	0817.0	1.0	210.0	QL=4 ST=2 TYP=3
		204	IZMI	7	C	0817.2	0817.7	1.0	165.0	
		204	IZMI	42	SER	0901.5	0905.0	4.0	215.0	
		245	SVTO	48	C	0903.0	0903.0	2.0	260.0	QL=4 ST=2 TYP=8
		410	SVTO	8	S	0904.0	0905.0	1.0	91.0	QL=4 ST=2 TYP=3
		204	IZMI	7	C	1010.5	1010.7	0.7	130.0	
		2800	PENT	4	S/F	1623.0	1625.0	9.0D	47.0	
		4995	SGMR	8	S	1626.0	1626.0	2.0	120.0	QL=4 ST=2 TYP=3
		2695	SGMR	8	S	1626.0	1626.0	1.0	38.0	QL=4 ST=2 TYP=3
		245	SGMR	8	S	1626.0	1626.0	2.0	140.0	QL=4 ST=2 TYP=3
		8800	SGMR	8	S	1626.0	1626.0	2.0	92.0	QL=4 ST=2 TYP=3
		410	SGMR	8	S	1638.0	1639.0	2.0	47.0	QL=4 ST=2 TYP=3
		245	SGMR	49	GB	1638.0	1639.0	4.0	1700.0	QL=4 ST=2 TYP=6
		4995	SGMR	4	S/F	1639.0	1639.0	3.0	110.0	QL=4 ST=2 TYP=3
		8800	SGMR	4	S/F	1639.0	1639.0	3.0	110.0	QL=4 ST=2 TYP=3
		245	SGMR	8	S	1645.0	1645.0	1.0	81.0	QL=4 ST=2 TYP=3
		245	PALE	8	S	1745.0	1745.0	U	120.0	QL=2 ST=2 TYP=3
		245	SGMR	8	S	1745.0	1745.0	1.0	140.0	QL=4 ST=2 TYP=3
		245	PALE	8	S	1757.0	1758.0	1.0	69.0	QL=4 ST=2 TYP=3
		245	SGMR	8	S	1758.0	1758.0	U	74.0	QL=4 ST=2 TYP=3
	245	SGMR	8	S	1915.0	1915.0	U	98.0	QL=4 ST=2 TYP=3	
	245	PALE	8	S	1931.0	1931.0	U	94.0	QL=4 ST=2 TYP=3	
	245	SGMR	8	S	1931.0	1931.0	U	97.0	QL=4 ST=2 TYP=3	
	245	PALE	8	S	2047.0	2048.0	2.0	160.0	QL=4 ST=2 TYP=3	
	245	SGMR	8	S	2047.0	2048.0	2.0	170.0	QL=4 ST=2 TYP=3	
	245	PALE	8	S	2102.0	2102.0	U	58.0	QL=4 ST=2 TYP=3	
	245	SGMR	8	S	2102.0	2102.0	1.0	54.0	QL=4 ST=2 TYP=3	
	410	LEAR	4	S/F	2330.0	2332.0	4.0	54.0	QL=4 ST=2 TYP=3	
	245	LEAR	4	S/F	2330.0	2332.0	4.0	180.0	QL=4 ST=2 TYP=3	
	245	PALE	8	S	2332.0	2332.0	1.0	260.0	QL=4 ST=2 TYP=3	
	410	PALE	8	S	2332.0	2332.0	1.0	98.0	QL=4 ST=2 TYP=3	
	2800	PENT	4	S/F	2337.0	2339.0	18.0	47.0		
	2840	BEIJ	5	S	2337.0	2339.7	7.0	44.6	35.7	
	2695	LEAR	8	S	2338.0	2339.0	2.0	44.0	QL=4 ST=2 TYP=3	
	8800	LEAR	8	S	2338.0	2340.0	2.0	120.0	QL=4 ST=2 TYP=3	
	4995	LEAR	8	S	2338.0	2340.0	2.0	120.0	QL=4 ST=2 TYP=3	
	245	LEAR	8	S	2338.0	2340.0	2.0	71.0	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		
27	15400	LEAR	4 S/F	2338.0	2340.0	3.0	89.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2338.0	2340.0	3.0	160.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2338.0	2340.0	3.0	220.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2339.0	2340.0	1.0	98.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2339.0	2339.0	1.0	37.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2339.0	2339.0	1.0	100.0			QL=4 ST=2 TYP=3
28	204	IZMI	44 NS	0600.0E		360.0D		5.0		
	127	TORN	43 NS	0747.0		360.0		1.0		V=1
	280	CUBA	44 NS	1300.0E		530.0D		14.0		
	235	CUBA	44 NS	1300.0E		530.0D		10.0		
	4995	SVTO	4 S/F	0000.0	0402.0	262.0	54.0			QL=4 ST=2 TYP=3
	2840	BEIJ	1 S	0346.0	0348.3	6.0	4.1	3.3		
	5730	IRKU	1 S	0347.5	0348.4	2.5	7.0		U	
	2840	BEIJ	1 S	0403.0	0404.8	5.0	2.8	2.2		
	5730	IRKU	4 S/F	0404.3	0404.9	3.7	11.0		U	
	2950	GORK	28 PRE	0441.8	0447.5	7.0	6.4			
	2840	BEIJ	45 C	0445.0	0449.0	8.0	17.9	14.3		
	5730	IRKU	4 S/F	0446.0	0449.3	13.0	28.0		U	
	2950	GORK	3 S	0448.8	0449.2	1.2	16.3			
	2950	GORK	29 PBI	0450.0	0450.0	13.0	8.5			
	2840	BEIJ	2 S/F	0545.0	0546.6	25.0	32.7	26.2		
	5730	IRKU	46 C	0545.0	0546.7	40.0	60.0		U	
	2950	GORK	3 S	0545.7	0546.6	1.4	28.4			
	4995	LEAR	8 S	0546.0	0546.0	1.0	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0546.0	0546.0	1.0	91.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0546.0	0546.0		27.0		U	QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0546.0	0546.0		35.0		U	QL=4 ST=2 TYP=3
	245	SVTO	8 S	0546.0	0547.0	1.0	150.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0546.0	0546.0	1.0	45.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0546.0	0546.0	1.0	41.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0546.0	0546.0		25.0		U	QL=4 ST=3 TYP=3
	4995	SVTO	8 S	0546.0	0546.0	1.0	54.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	0546.0	0546.2	3.8				
	2950	GORK	29 PBI	0547.1	0547.1	11.3	10.7			
	2840	BEIJ	2 S/F	0651.0	0653.0	13.0	90.7	72.5		
	204	IZMI	45 C	0651.7	0653.8	6.5	1180.0			
	5730	IRKU	4 S/F	0651.8	0653.4	8.2	312.0		U	
	4995	LEAR	8 S	0652.0	0653.0	2.0	230.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0652.0	0653.0	3.0	54.0			QL=4 ST=2 TYP=3
	15400	LEAR	49 GB	0652.0	0653.0	2.0	1000.0			QL=4 ST=2 TYP=6
	610	LEAR	4 S/F	0652.0	0655.0	4.0	88.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0652.0	0653.0	2.0	440.0			QL=4 ST=2 TYP=3
	410	LEAR	48 C	0652.0	0655.0	5.0	2500.0			QL=4 ST=2 TYP=8
	245	LEAR	49 GB	0652.0	0654.0	4.0	840.0			QL=4 ST=2 TYP=6
	2695	LEAR	8 S	0652.0	0653.0	2.0	80.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	0652.0	0654.0	5.0	1900.0			QL=2 ST=2 TYP=8
	4995	SVTO	8 S	0652.0	0653.0	2.0	250.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0652.0	0653.0	2.0	460.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0652.0	0653.0	2.0	55.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0652.0	0653.0	2.0	88.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0652.0	0653.0	5.0	5100.0			QL=4 ST=2 TYP=6
	15400	SVTO	49 GB	0652.0	0653.0	2.0	1100.0			QL=4 ST=2 TYP=6
	3000	IZMI	7 C	0652.0	0653.2	4.5	60.0			
	2950	GORK	3 S	0652.2	0653.3	1.8	81.0			
	9100	GORK	3 S	0652.3	0653.1	3.2	535.0			
	127	TORN	47 GB	0652.6	0653.1	9.6	2200.0	200.0		
	610	SVTO	8 S	0653.0	0655.0	2.0	120.0			
	33	UPIC	46 C	0653.0	0653.9	5.2				QL=2 ST=2 TYP=3
204	IZMI	41 F	0738.5	0738.7	1.0	55.0				
3000	IZMI	1 S	0752.0	0752.5	1.4	1.8				
245	SVTO	8 S	0810.0	0811.0	1.0	51.0			QL=4 ST=2 TYP=3	
410	LEAR	4 S/F	0944.0	0945.0	3.0	42.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	0944.0	0945.0	1.0	57.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	0944.0	0945.0	1.0	20.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0944.0	0945.0	1.0	79.0			QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1055.0	1055.0	1.0	870.0			QL=2 ST=2 TYP=6	
245	SVTO	49 GB	1055.0	1055.0	1.0	2600.0			QL=4 ST=2 TYP=6	
204	IZMI	45 C	1055.5	1055.7	0.7	580.0				



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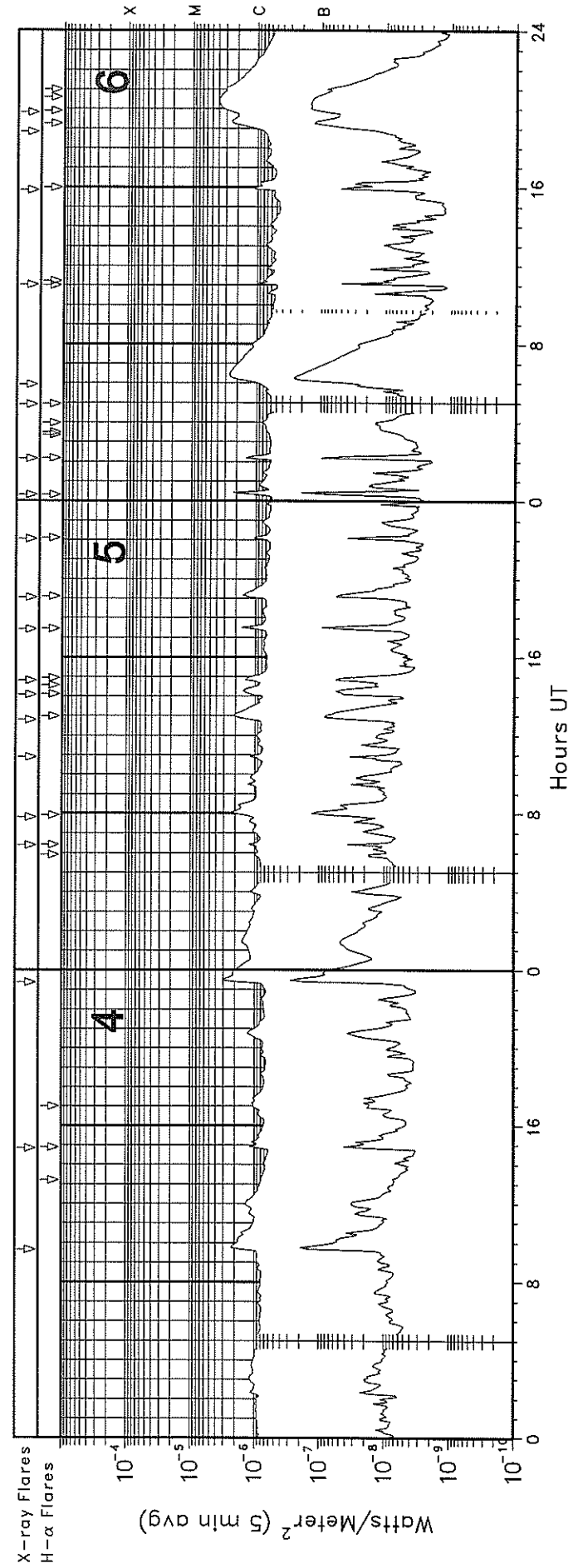
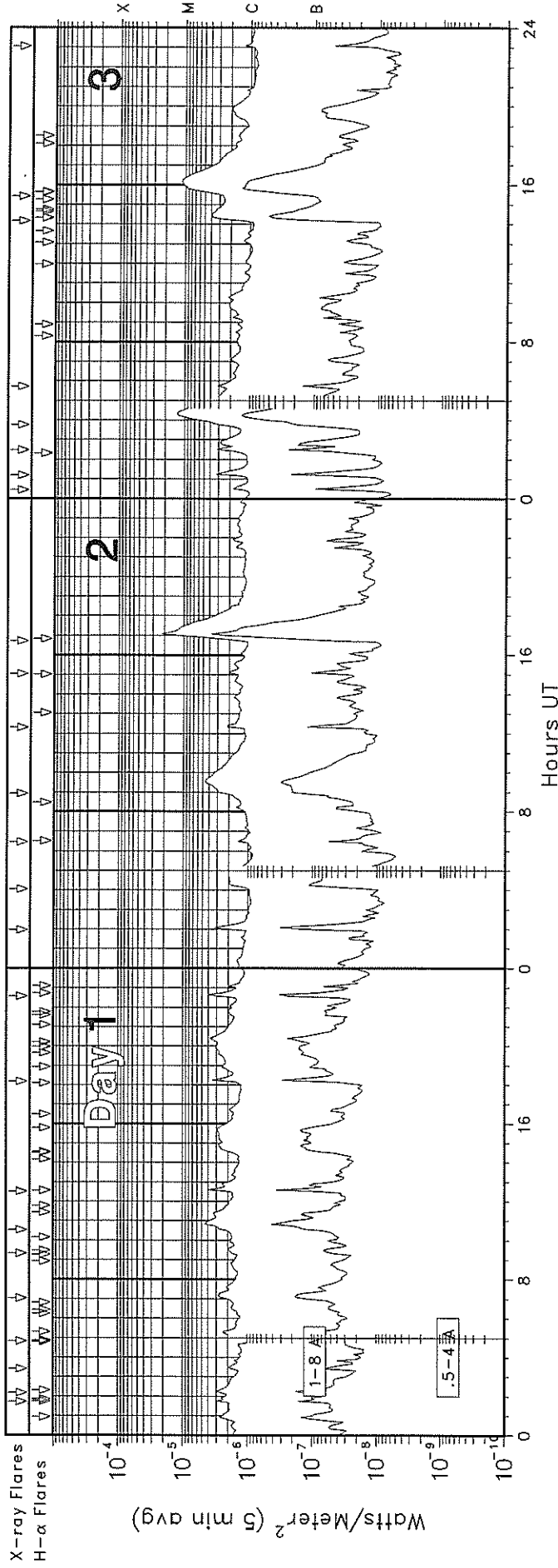
Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean		
28	3000	IZMI	7 C	1158.2	1159.5	9.5	15.6			
	204	IZMI	41 F	1158.5	1159.5	4.5	175.0			
	8800	SGMR	8 S	1159.0	1200.0	2.0	61.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1159.0	1159.0	4.0	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1159.0	1159.0	4.0	52.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1159.0	1159.0	4.0	200.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1159.0	1159.0	1.0	43.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1159.0	1200.0	2.0	28.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1159.0	1159.0	2.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1159.0	1159.0	2.0	200.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1159.0	1200.0	2.0	50.0			QL=4 ST=2 TYP=3
	33	UPIC	48 C	1159.0	1200.0	20.0				
	127	TORN	47 GB	1159.0	1159.7	2.0	770.0	360.0		
	1415	SGMR	8 S	1200.0	1201.0	2.0	64.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1200.0	1200.0	1.0	37.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1200.0	1201.0	1.0	25.0			QL=2 ST=2 TYP=3
	1415	SVTO	8 S	1200.0	1201.0	1.0	64.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1201.0	1201.0	U	44.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1343.4	1344.0	1.8	8.0	4.0		16L
	410	SGMR	49 GB	1607.0	1608.0	3.0	1500.0			QL=4 ST=3 TYP=6
	410	SVTO	49 GB	1607.0	1608.0	1.0	560.0			QL=2 ST=2 TYP=6
	15400	SVTO	4 S/F	1607.0	1608.0	5.0	57.0			QL=2 ST=3 TYP=3
	2800	PENT	29 PBI	1607.0	1607.0	25.00D	41.0			
	6700	CUBA	1 S	1607.6	1608.6	2.8	33.0	16.0		13L
	235	CUBA	6 S	1608.0	1611.0	5.0	1561.0			
	4995	SGMR	8 S	1608.0	1608.0	1.0	42.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1608.0	1608.0	4.0	990.0			QL=4 ST=3 TYP=6
	15400	SGMR	8 S	1608.0	1608.0	1.0	70.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1608.0	1608.0	2.0	43.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1608.0	1608.0	U	37.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1608.0	1608.0	1.0	69.0			QL=4 ST=3 TYP=3
	2695	SGMR	8 S	1608.0	1608.0	1.0	38.0			QL=4 ST=3 TYP=3
	1415	SVTO	4 S/F	1608.0	1608.0	4.0	34.0			QL=2 ST=2 TYP=3
8800	SVTO	4 S/F	1608.0	1608.0	4.0	33.0			QL=2 ST=3 TYP=3	
4995	SVTO	8 S	1608.0	1608.0	1.0	40.0			QL=2 ST=2 TYP=3	
245	SVTO	49 GB	1608.0	1608.0	U	720.0			QL=2 ST=2 TYP=6	
610	SVTO	8 S	1608.0	1608.0	1.0	61.0			QL=2 ST=2 TYP=3	
2695	SVTO	8 S	1608.0	1608.0	2.0	47.0			QL=2 ST=2 TYP=3	
280	CUBA	6 S	1608.0	1608.1	5.0	490.0				
245	SVTO	8 S	1611.0	1612.0	1.0	180.0			QL=2 ST=2 TYP=3	
245	SGMR	8 S	1612.0	1612.0	U	120.0			QL=4 ST=2 TYP=3	
29	245	SVTO	43 NS	0622.0	0625.0	36.0	85.0			QL=2 ST=3 TYP=1
	235	CUBA	44 NS	1300.0E		390.0D		10.0		
	280	CUBA	44 NS	1300.0E		390.0D		15.0		
	245	SVTO	49 GB	0044.0	0947.0	546.0	2800.0			QL=4 ST=2 TYP=6
	2840	BEIJ	3 S	0156.0	0158.4	16.0	85.7	72.1		
	2840	PURP	3 S	0156.8	0158.3	8.4	41.0			
	2695	LEAR	8 S	0157.0	0158.0	2.0	66.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0157.0	0158.0	2.0	65.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0157.0	0158.0	2.0	60.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0157.0	0158.0	2.0	61.0			QL=4 ST=2 TYP=3
	5730	IRKU	4 S/F	0157.0	0158.3	18.0	36.0	U		
	245	LEAR	8 S	0158.0	0158.0	U	50.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0158.0	0158.0	1.0	65.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0621.5	0622.0	0.8	53.0			
	2950	GORK	29 PBI	0654.0	0654.0	13.5	28.4			
	127	TORN	4 S/F	0751.8	0752.4	3.0	400.0	200.0		
	245	SVTO	49 GB	0944.0	0947.0	6.0	2800.0			QL=4 ST=3 TYP=6
	410	SVTO	4 S/F	0944.0	0946.0	6.0	240.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0944.0	0945.0	6.0	21.0			QL=4 ST=2 TYP=3
	950	GORK	4 S/F	0944.0	0945.2	2.9	89.0			
	204	IZMI	42 SER	0944.2	0947.5	8.0	200.0			
	600	GORK	4 S/F	0944.3	0945.6	1.7	18.0			
	245	LEAR	49 GB	0945.0	0947.0	4.0	1500.0			QL=4 ST=2 TYP=6
410	LEAR	4 S/F	0945.0	0945.0	3.0	190.0			QL=4 ST=2 TYP=3	
8800	SVTO	8 S	0945.0	0945.0	1.0	9.0			QL=4 ST=2 TYP=3	
4995	SVTO	8 S	0945.0	0945.0	1.0	50.0			QL=4 ST=2 TYP=3	
2695	SVTO	4 S/F	0945.0	0950.0	7.0	50.0			QL=4 ST=2 TYP=3	

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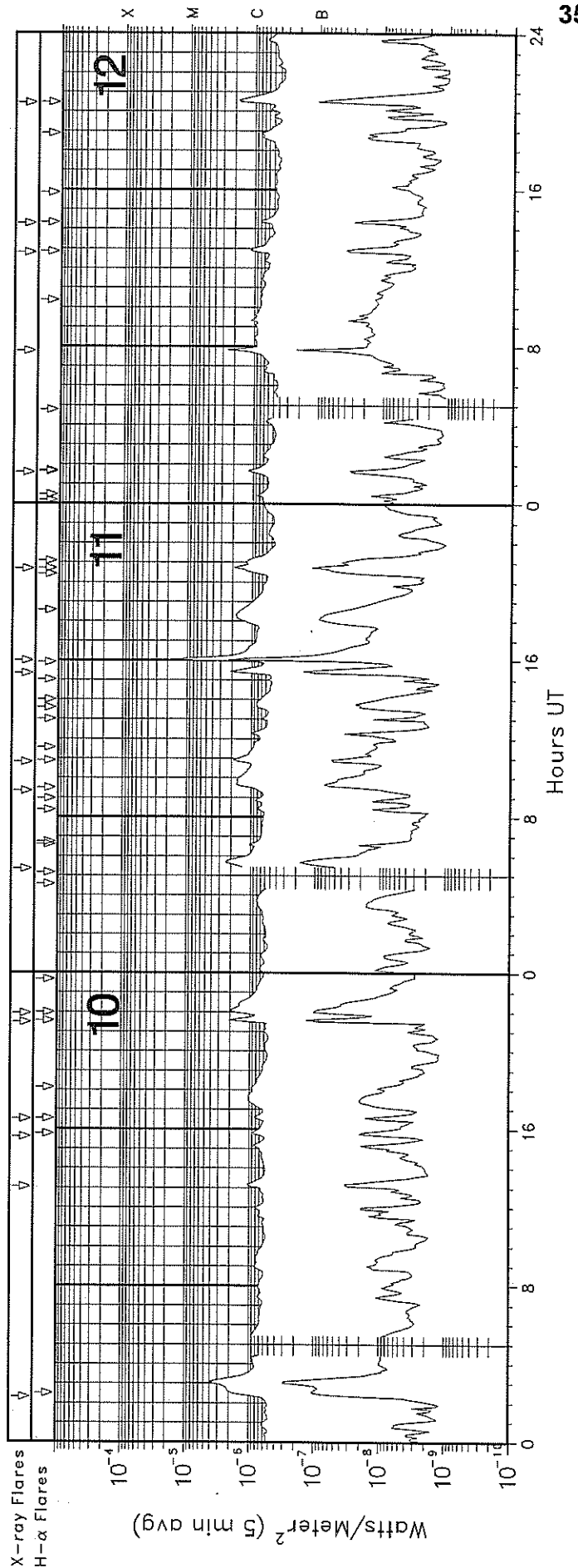
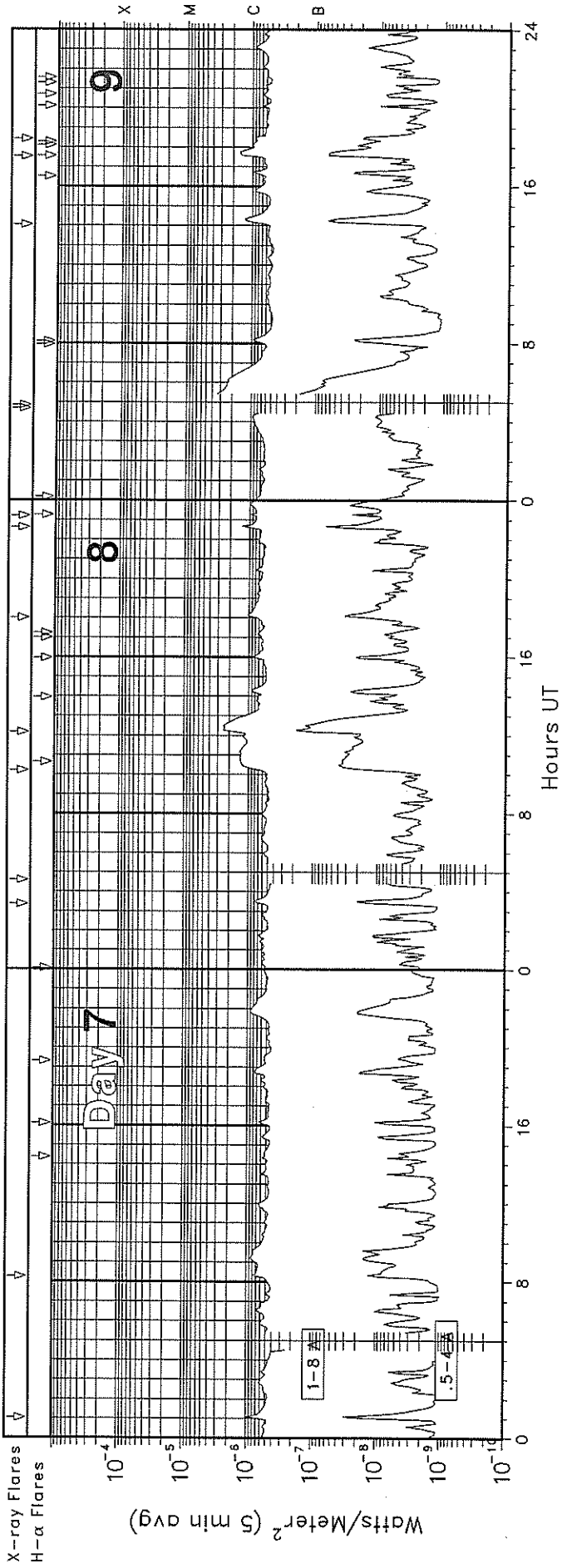
Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean			
29	1415	SVTO	4 S/F	0945.0	0945.0	5.0	54.0			QL=4 ST=2 TYP=3	
	3000	IZMI	7 C	0945.0	0945.3	12.0	37.7				
	9100	GORK	3 S	0945.1	0945.5	3.4	11.2				
	2950	GORK	3 S	0945.1	0945.5	1.1	48.0				
	600	GORK	30 PBI	0946.0	0948.6	6.7	11.0				
	2950	GORK	30 PBI	0946.2	0946.2	13.8	17.8				
	950	GORK	30 PBI	0946.9	0948.6	4.1	22.0				
	245	SGMR	8 S	1113.0	1113.0	1.0	59.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1113.0	1113.0	1.0	90.0			QL=4 ST=2 TYP=3	
	204	IZMI	41 F	1145.0	1145.3	2.3	66.0				
	245	LEAR	8 S	2318.0	2318.0	1.0	160.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2318.0	2318.0	1.0	210.0			QL=2 ST=2 TYP=3	
	410	LEAR	8 S	2340.0	2341.0	1.0	55.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	2343.0	2343.0	U	50.0			QL=4 ST=2 TYP=3	
30	127	TORN	43 NS	0740.0		300.0		9.0		V=1	
	33	UPIC	43 NS	0926.0	1308.5	285.5					
	280	CUBA	44 NS	1300.0E		450.0D		12.0			
	235	CUBA	44 NS	1300.0E		450.0D		10.0			
	8800	SVTO	4 S/F	0000.0	0803.0	503.0	150.0				QL=4 ST=2 TYP=3
	245	SVTO	48 C	1251.0	1329.0	669.0	350.0				QL=4 ST=1 TYP=8
	33	UPIC	47 GB	1307.8	1308.5	47.7					
	1415	SVTO	4 S/F	1309.0	1332.0	61.0	220.0				QL=4 ST=3 TYP=3
	245	SVTO	4 S/F	1310.0	1329.0U	55.0	350.0				QL=2 ST=3 TYP=3
	2695	SVTO	48 C	1311.0	1331.0	55.0	450.0				QL=4 ST=3 TYP=8
	410	SGMR	4 S/F	1312.0	1317.0	7.0	58.0				QL=4 ST=2 TYP=3
	245	SGMR	48 C	1312.0	1312.0	8.0	78.0				QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1312.0	1330.0	53.0	490.0				QL=4 ST=2 TYP=8
	410	SVTO	4 S/F	1312.0	1317.0	58.0	64.0				QL=4 ST=3 TYP=3
	610	SGMR	4 S/F	1312.0	1317.0	648.0	180.0				QL=4 ST=1 TYP=3
	4995	SVTO	48 C	1315.0	1331.0	51.0	340.0				QL=4 ST=3 TYP=8
	610	SVTO	4 S/F	1316.0	1317.0	4.0	140.0				QL=2 ST=3 TYP=3
	1415	SGMR	48 C	1317.0	1332.0	48.0	290.0				QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1317.0	1334.0	48.0	450.0				QL=4 ST=2 TYP=8
	6700	CUBA	21 GRF	1321.0E	1340.0	19.0D	44.0		22.0		00L
	6700	CUBA	48 C	1323.2	1331.3	25.7	388.0				1L
	8800	SVTO	4 S/F	1324.0	1331.0	46.0	150.0				QL=4 ST=3 TYP=3
	280	CUBA	7 C	1324.6	1328.0	8.4	90.0				
	8800	SGMR	48 C	1325.0	1331.0	25.0	310.0				QL=4 ST=2 TYP=8
	15400	SVTO	20 GRF	1325.0	1333.0	45.0	100.0				QL=4 ST=3 TYP=2
	235	CUBA	7 C	1325.0	1329.2	9.0	138.0				
	15400	SGMR	4 S/F	1327.0	1331.0	633.0	110.0				QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1328.0	1331.0	18.0	110.0				QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1410.0	1411.0	8.0	35.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1410.0	1413.0	8.0	52.0				QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1410.0	1415.0	8.0	32.0				QL=4 ST=3 TYP=3
	2695	SVTO	4 S/F	1410.0	1413.0	8.0	52.0				QL=4 ST=3 TYP=3
	610	SGMR	4 S/F	1410.0	1419.0	10.0	26.0				QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1411.0	1419.0	9.0	17.0				QL=2 ST=3 TYP=3
4995	SVTO	8 S	1411.0	1411.0	U	16.0				QL=4 ST=3 TYP=3	
245	SGMR	4 S/F	1439.0	1440.0	4.0	71.0				QL=4 ST=2 TYP=3	
280	CUBA	48 C	1440.0	1440.5	13.0	43.0					
235	CUBA	48 C	1440.0	1440.6	15.0	55.0					
245	SGMR	8 S	1449.0	1450.0	2.0	52.0				QL=4 ST=2 TYP=3	

# GOES X-RAY DETECTOR September 1998



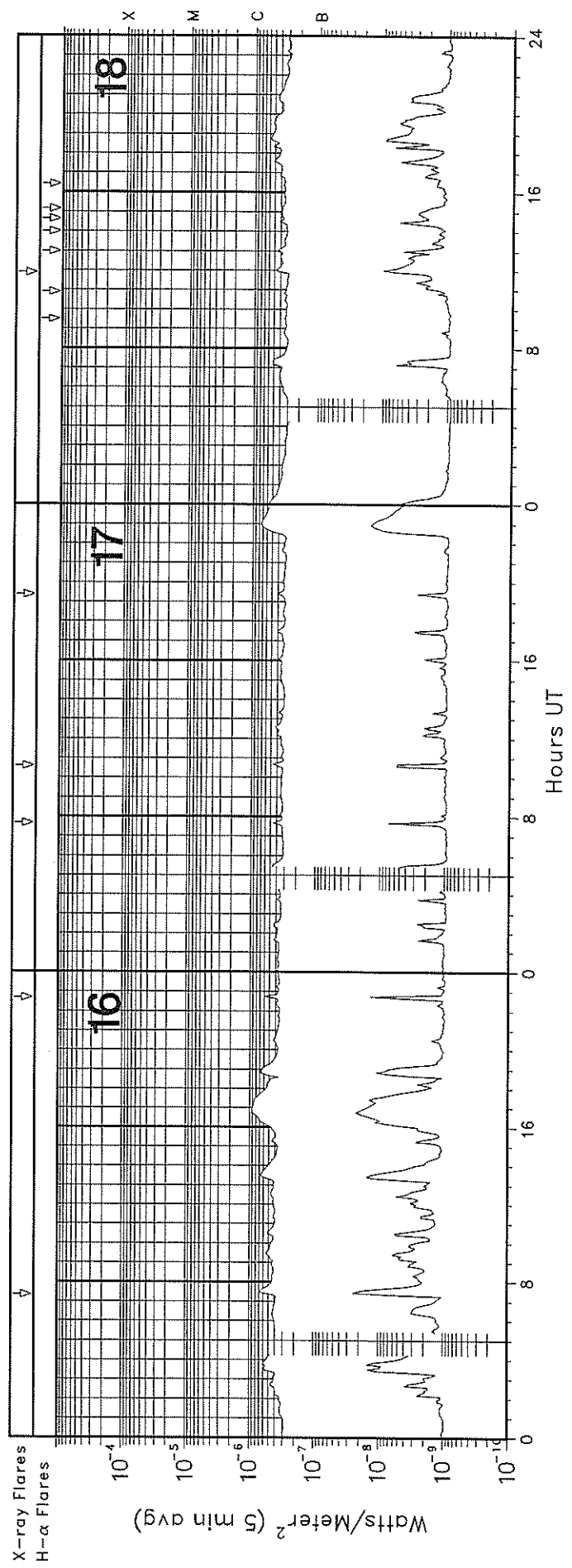
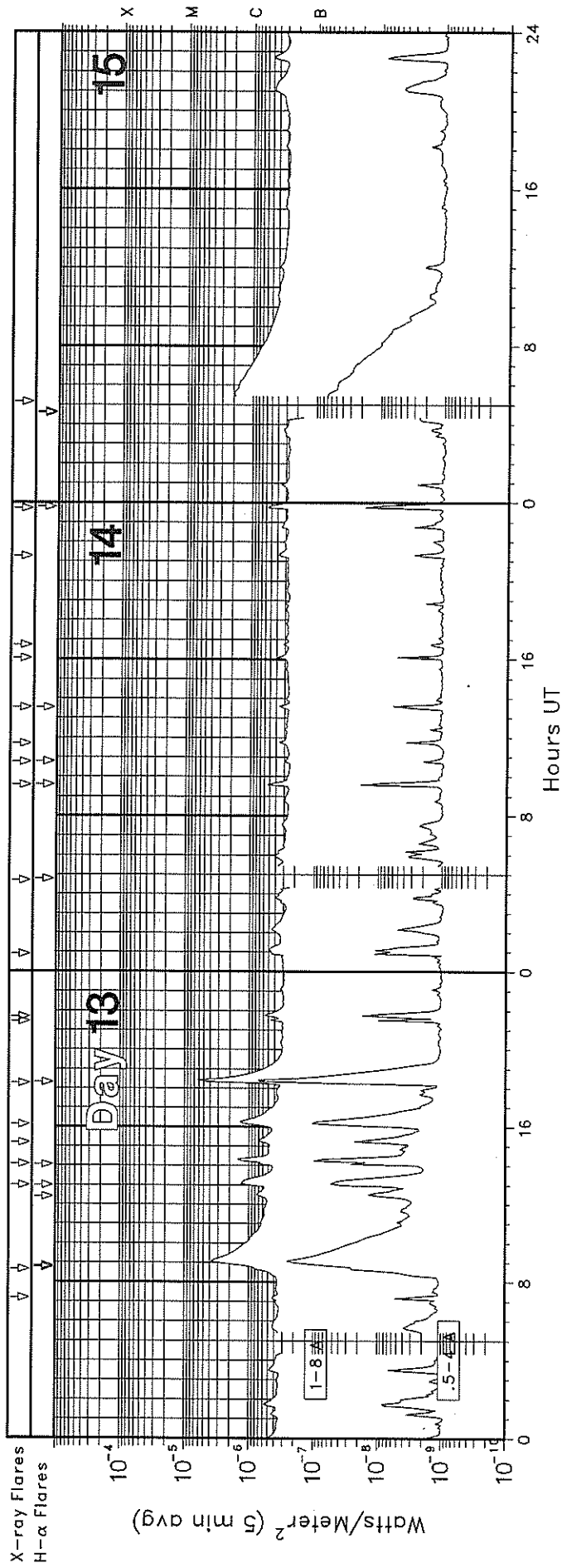
# GOES X-RAY DETECTOR

## September 1998



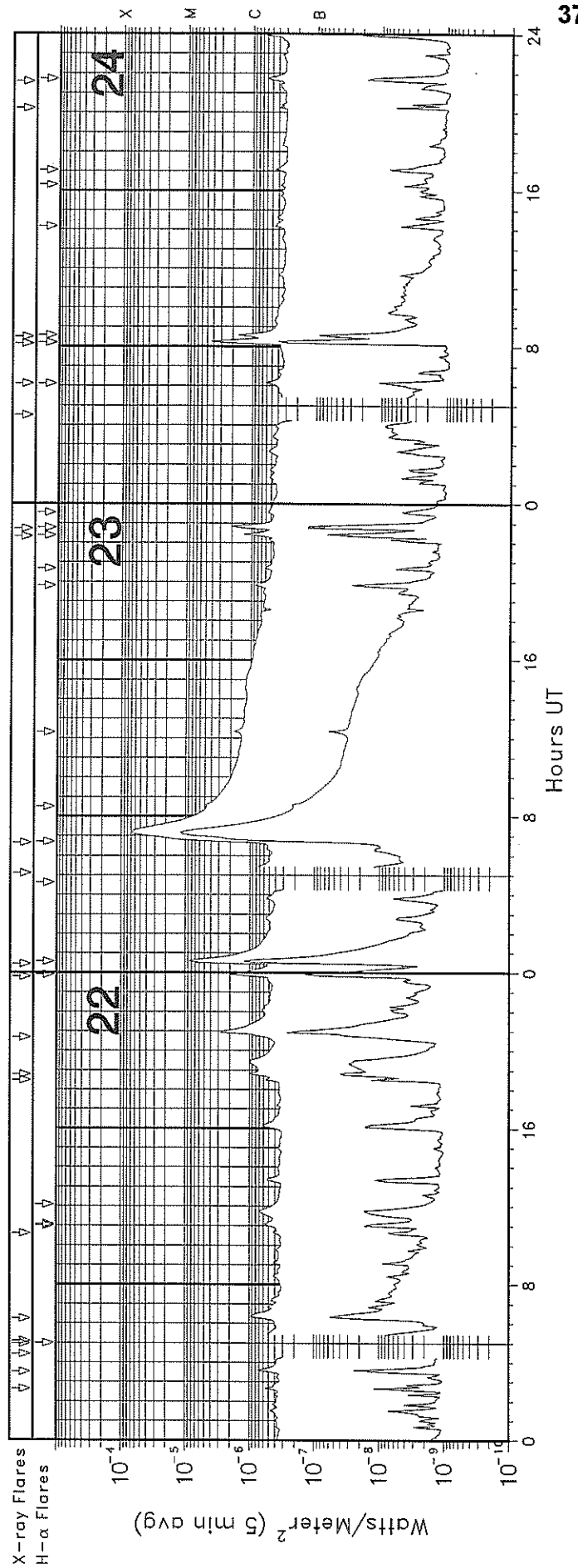
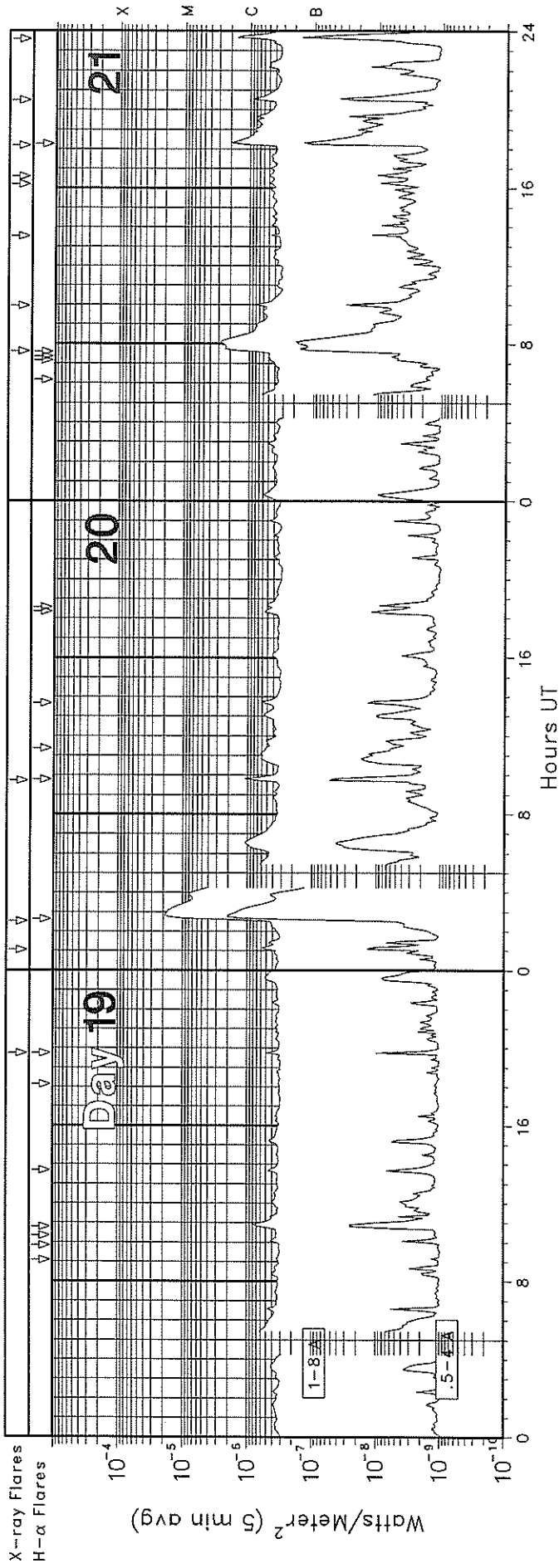
# GOES X-RAY DETECTOR

September 1998

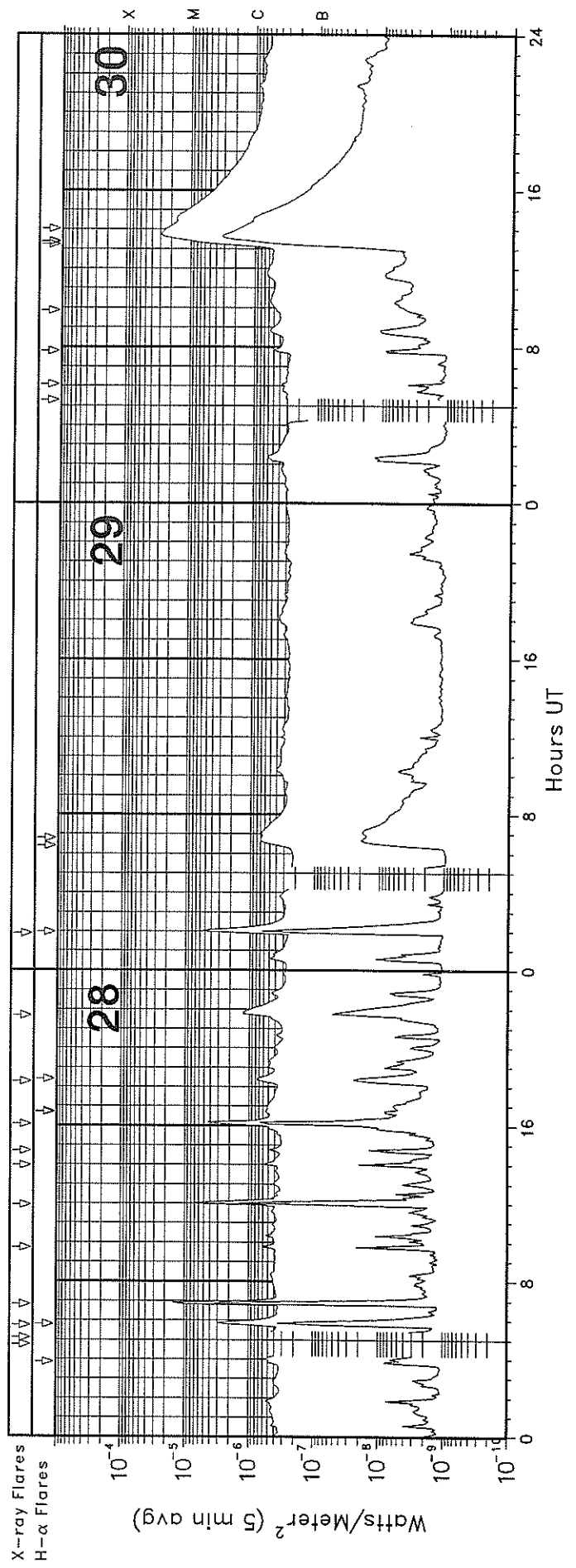
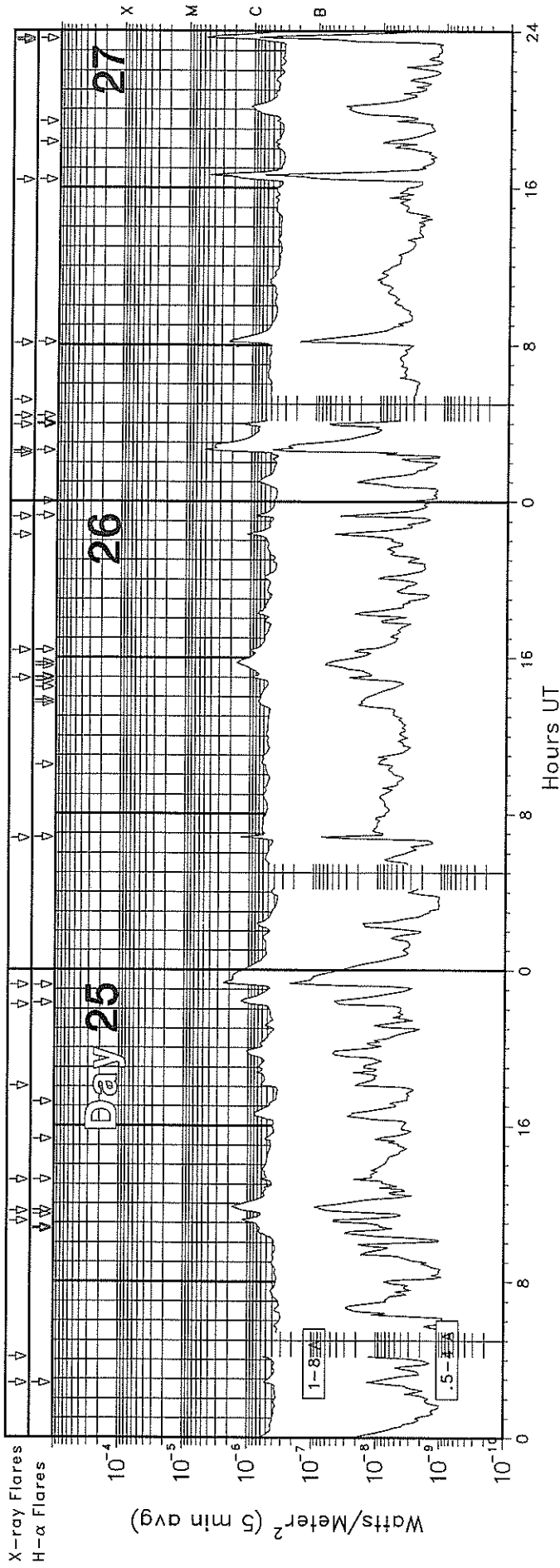


# GOES X-RAY DETECTOR

September 1998



# GOES X-RAY DETECTOR September 1998



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

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 Sep 98

September 1998

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	0143	0146	0150	S23	E40	SF	C3.1	8323	1.1E-03
01	0211	0214	0220	N19	W55	SF	C3.4	8319	1.6E-03
01	0325	0329	0336				C2.1		1.2E-03
01	0449	0459	0506	N32	W78	1F	M1.5	8323	1.0E-02
01	0701	0713	0722	S23	E38	SF	C2.8	8323	3.3E-03
01	0920	0935	0941				C2.0	8323	2.3E-03
01	1032	1053	1106	S21	E36	SF	C4.9	8323	7.0E-03
01	1231	1236	1241	S20	E36	SF	C4.4	8323	1.9E-03
01	1811	1817	1821	N15	W64	SF	C3.8	8319	1.6E-03
01	2234	2240	2244	S21	E31	SF	C4.7		2.1E-03
02	0158	0207	0213				C3.3		2.2E-03
02	0404	0439	0442				C2.0		3.9E-03
02	0629	0632	0636	S21	E24	SF	C1.6	8323	5.8E-04
02	0856	0936	1004				C4.7		1.5E-02
02	1218	1223	1230				C2.4		1.4E-03
02	1503	1506	1510	S22	E20	SF	C2.2	8323	8.1E-04
02	1644	1707	1718	N17	W79	SF	M2.2	8319	2.1E-02
03	0027	0034	0040				C1.8		1.2E-03
03	0111	0117	0124				C3.5		2.0E-03
03	0228	0233	0236				C3.7		1.4E-03
03	0345	0421	0440				M1.3		2.8E-02
03	0542	0545	0549				C3.4		1.3E-03
03	1410	1430	1515				C3.9	8323	1.2E-02
03	1526	1608	1641	S20	E06	SF	M1.1	8323	3.7E-02
03	2303	2307	2310				C1.3		5.0E-04
04	0939	0948	1020				C2.2		4.7E-03
04	1450	1457	1502	N20	E83	SF	C1.2	8326	7.4E-04
04	2322	2331	0006				C3.2		5.9E-03
05	0623	0626	0629	S22	W22	SF	C1.3	8323	4.2E-04
05	0749	0805	0830	N21	E64	SF	C2.2	8326	4.2E-03
05	1053	1056	1059				C1.3		4.1E-04
05	1248	1300	1316	N21	E60	SF	C2.1	8326	3.0E-03
05	1404	1417	1428	N14	E56	SF	C1.5	8326	1.9E-03
05	1448	1451	1454	S23	W27	SF	C1.6	8323	4.9E-04
05	1725	1730	1733	S19	W26	SF	C2.0	8323	6.8E-04
05	1903	1910	1925	N16	E53	SF	C1.5	8329	1.8E-03
05	2204	2208	2212	N22	E53	SF	C1.3	8326	5.0E-04
06	0018	0025	0029	S22	W32	SF	C2.6	8323	1.1E-03
06	0209	0213	0216	S22	W35	SN	C2.3		6.2E-04
06	0454	0458	0502	S21	W36	SF	B9.7	8323	4.0E-04
06	0556	0624	0710				C2.6		9.0E-03
06	1103	1107	1110	S22	W40	SF	C1.3	8323	3.8E-04
06	1552	1557	1608	N22	E44	SF	C1.1	8326	9.4E-04
06	1850	1920	1937	N23	E47	SF	C2.5	8326	4.9E-03
06	1949	2018	2058				C3.9		1.4E-02
07	0101	0105	0110				C1.0		4.7E-04
07	0816	0820	0829				B8.3		5.7E-04
08	0322	0332	0340				B8.0		7.6E-04
08	0436	0439	0501				B7.0		9.6E-04
08	1014	1041	1136				C1.3		6.0E-03
08	1210	1218	1247				C2.5		4.9E-03
08	1800B	1810C	1835B				C1 0		
08	2237	2241	2244				C1.4		5.2E-04
08	2313	2316	2318	S22	W60	SF	C1.1	8323	2.9E-04
09	0441	0444	0447				C1.4		4.2E-04
09	0452	0458	0505				M2.8		1.2E-02
09	1404	1418	1431				C1.3		1.7E-03

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
09	1733	1738	1754	N25	E47	1F	C1.7	8331	1.8E-03
09	1826	1829	1833				C1.0		4.0E-04
10	0218	0305	0316	N22	W05	SF	C4.2		8.1E-03
10	1303	1311	1318				C1.0		8.7E-04
10	1537	1549	1600	N10	W39	SF	B8.7	8333	1.1E-03
10	1631	1638	1643	N12	W14	SF	B8.7	8329	5.7E-04
10	2129	2135	2143	S25	W90	SF	C2.2		1.3E-03
10	2156	2205	2218	N11	W43	SF	C2.0	8333	2.2E-03
11	0521	0525	0528	N11	W43	SF	C1.7	8333	6.4E-04
11	0921	0940	1020				C1.6		4.7E-03
11	1049	1056	1104	N20	W14	SF	C1.8	8329	1.5E-03
11	1520	1525	1534	N10	W52	SF	C2.5	8333	1.4E-03
11	1558	1603	1607	N11	W51	1B	M2.1	8333	6.4E-03
11	2042	2046	2052	N11	W53	SF	C2.0	8333	1.1E-03
12	0136	0139	0145	N13	W36	SF	C1.2	8333	6.3E-04
12	0747	0753	0755				C3.1		1.0E-03
12	1249	1257	1307	N25	E07	SF	C1.1	8331	1.1E-03
12	1416	1425	1431	N25	E07	SF	B8.5	8331	6.6E-04
12	2026	2035	2043	N20	W38	SF	C1.9		1.5E-03
13	0711	0713	0716				B5.0		1.3E-04
13	0839	0907	0926	N12	W51	SF	C3.8	8329	6.3E-03
13	1259	1306	1321	N21	W49	SF	C1.3	8326	1.5E-03
13	1405	1419	1426	N12	W76	SF	C1.6	8333	1.3E-03
13	1511	1518	1525				B7.3		5.4E-04
13	1607	1615	1625				C1.4		1.3E-03
13	1816	1825	1829	N11	W80	SF	C8.3	8333	3.3E-03
13	2127	2132	2135				B5.2		2.0E-04
13	2141	2147	2155				B5.8		4.3E-04
14	0055	0059	0102				B6.1		2.1E-04
14	0442	0452	0503	N22	W58	SF	C1.2	8326	1.2E-03
14	0935	0939	0941	S23	E51	SF	B8.8	8335	2.0E-04
14	1046	1048	1052	S21	E41	SF	B3.3	8335	1.1E-04
14	1142	1146	1149				B3.8		1.4E-04
14	1332	1336	1340	S22	E41	SF	B3.7	8335	1.7E-04
14	1603	1606	1610				B4.1		1.6E-04
14	1643	1644	1650				B3.2		1.3E-04
14	2116	2122	2131				B3.9		3.3E-04
14	2343	2348	2353	S20	E36	SF	B7.1	8335	3.2E-04
15	0509	0536	0638				C2 0		
16	0721	1731	0746				B6.8		9.1E-04
16	2241	2246	2248				B7.5		2.3E-04
17	0740	0744	0746				B5.7		1.6E-04
17	1036	1039	1043				B5.2		1.9E-04
17	1922	1925	1927				B4.8		1.2E-04
18	1154	1203	1219				B4.7		6.3E-04
19	1944	1948	1950	N39	E63	SF	B6.8		1.7E-04
20	0104	0110	0115				B6.0		3.6E-04
20	0233	0251	0328				M1.8		4.4E-02
20	0944	0949	0953	S31	E07	SF	C1.5	8336	5.2E-04
21	0736	0806	0823	N18	E35	SF	C2.8	8340	6.2E-03
21	0957	1001	1005				B8.7		3.7E-04
21	1332	1336	1338				B5.5		1.6E-04
21	1612	1615	1617				B5.9		1.6E-04



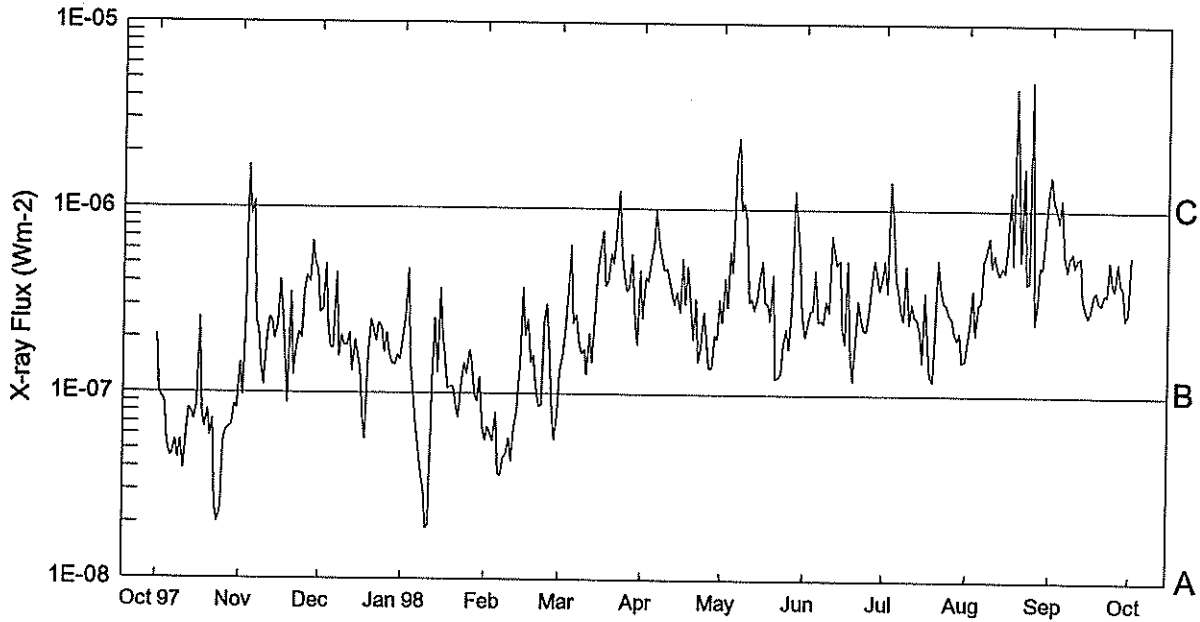
GOES SOLAR X-RAY FLARES  
\*\*Preliminary Listing\*\*

September 1998

Start Day	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
21	1637	1640				B6.2		1.6E-04
21	1812	1821	N18	E29	1F	C2.0	8340	1.8E-03
21	2029	2035				C1.0		5.1E-04
21	2335	2343				C1.9		9.6E-04
22	0238	0242				B6.0		2.2E-04
22	0331	0337				B7.5		4.1E-04
22	0426	0431				B5.7		3.0E-04
22	0457	0501	N20	E25	SF	B7.6	8340	3.0E-04
22	0506	0510				B9.8		2.7E-04
22	0615	0623				B9.7		9.6E-04
22	1036	1040				B4.9		1.8E-04
22	1829	1832				B6.2		2.0E-04
22	1846	1850				C1.0		4.6E-04
22	2041	2059				C3.4		2.3E-03
22	2348	2355	N18	E14	SF	C2.1		1.3E-03
23	0027	0038	S20	E22	SF	C9.3		7.1E-03
23	0506	0512				C1.2		1.2E-03
23	0640	0713	N18	E09	3B	M7.1	8340	1.2E-01
23	2220	2226	S19	E12	SF	C1.4	8344	6.1E-04
23	2243	2250	N21	W04	SF	C2.2	8340	1.1E-03
24	0431	0436				B6.9		3.4E-04
24	0607	0610	N20	W05	SF	B6.5	8340	2.5E-04
24	0809	0814	S20	E05	1N	C6.0	8344	2.0E-03
24	0830	0835	N20	W11	SF	C1.8	8340	8.3E-04
24	2014	2018				B4.3		1.4E-04
24	2136	2145	N21	W18	SF	B6.1	8340	4.7E-04
25	0247	0251				B5.5		3.9E-04
25	0408	0411				B6.5		1.7E-04
25	1105	1109	N17	W20	SF	C1.3	8340	6.8E-04
25	1136	1151				C1.7		2.1E-03

Start Day	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
25	1312	1316	S28	E32	SF	B7.0		2.5E-04
25	1802	1845				B7.7		2.8E-03
25	2212	2226	S16	W13	SF	C1.3		1.6E-03
25	2313	2323	S28	E27	SF	C2.7	8346	4.0E-03
26	0645	0651	N24	W31	SF	C1.6	8340	5.8E-04
26	1456	1501	S15	W67	SF	C1.0	8339	5.3E-04
26	1621	1624				C1.2		3.8E-04
26	2216	2221				C1.1		6.5E-04
26	2313	2318				B9.8		3.7E-04
27	0226	0229				B5.9		1.9E-04
27	0234	0241	S29	E12	1F	C6.0	8346	5.6E-03
27	0355	0400	N20	W46	SF	C1.8	8339	5.8E-04
27	0423	0429	S29	E11	SF	B9.6	8346	7.7E-04
27	0511	0515				B7.8		4.3E-04
27	0806	0813	N21	W48	SF	C2.6	8340	1.8E-03
27	1623	1642	N21	W52	1F	C5.2	8340	3.1E-03
27	2331	2334				B8.9		2.0E-04
27	2337	2342	N20	W58	1N	C6.0	8340	3.1E-03
28	0445	0453				C1.1		6.8E-04
28	0506	0509				B7.5		1.8E-04
28	0544	0553	N21	W58	SF	C3.3	8340	1.7E-03
28	0649	0654				B3.5		6.9E-03
28	0943	0947				B6.6		2.7E-04
28	1156	1201				C9.5		3.2E-03
28	1358	1402				B6.2		2.9E-04
28	1442	1446				B5.2		2.0E-04
28	1605	1610				C6.8		1.8E-03
28	1816	1824	N20	W67	SF	B7.7		6.7E-04
28	2140	2149				C1.3		1.5E-03
29	0154	0202	N23	W69	SF	C6.1	8340	3.4E-03

# Preliminary GOES Satellite Daily X-Ray Background Oct 97 - Sep 98



Day	Oct 97	Nov	Dec	Jan 98	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	B2.0	B1.4	B2.7	B1.9	A5.6	B1.3	B2.6	B2.4	B2.0	B5.3	B1.9	C1.5
2	B1.0	A9.7	B2.8	B2.6	A6.6	B1.5	B4.3	B4.2	B2.4	B3.6	B2.4	C1.1
3	A9.4	B2.6	B4.9	B4.7	A6.1	B2.2	B4.1	B2.9	B2.8	C1.4	B3.7	C1.0
4	A8.9	C1.6	B2.2	B1.4	A5.5	B3.6	B5.2	B5.8	B2.8	B9.2	B2.1	B8.7
5	A5.3	B9.1	B1.7	A9.4	A7.9	B6.3	B6.6	B4.6	B4.7	B4.2	B3.1	C1.1
6	A4.5	C1.0	B1.7	A6.5	A3.6	B2.4	C1.0	C1.8	B2.4	B3.5	B3.1	B5.8
7	A4.6	B2.4	B4.4	A5.0	A3.5	B2.6	B6.6	C2.4	B2.5	B2.8	B5.4	B4.7
8	A5.5	B2.2	B1.5	A3.8	A4.5	B1.9	B5.6	B9.9	B2.4	B2.5	B5.8	B5.4
9	A4.4	B1.4	B2.0	A2.9	A4.7	B1.6	B4.7	C1.0	B3.2	B5.0	B7.2	B6.0
10	A5.5	B1.1	B1.8	A1.8	A5.7	B1.7	B4.8	B8.7	B2.8	B2.4	B4.9	B5.0
11	A3.9	B2.0	B1.8	A1.9	A4.3	B1.2	B4.1	B3.1	B7.2	B3.1	B5.8	B5.4
12	A5.8	B2.5	B2.1	B1.1	A6.6	B2.1	B3.5	B3.3	B6.0	B2.6	B4.8	B5.7
13	A8.2	B2.4	B1.3	B2.5	A7.9	B1.4	B3.1	B2.8	B5.0	B2.6	B4.5	B3.4
14	A7.9	B1.9	B1.9	B1.3	B1.4	B2.5	B3.6	B3.2	B5.3	B2.2	B4.9	B2.9
15	A7.1	B2.3	B1.6	B3.6	B3.7	B4.8	B2.8	B4.4	B2.3	B1.5	B4.6	B2.7
16	A8.6	B4.1	B1.3	B2.0	B2.0	B6.1	B5.4	B5.3	B1.9	B3.6	B6.5	B2.8
17	B2.5	B2.6	A7.5	B1.5	B2.5	B7.6	B3.1	B3.1	B5.3	B2.0	C1.2	B3.6
18	A8.0	B1.3	A5.7	B1.0	B1.4	B3.8	B4.9	B3.0	B1.5	B1.2	B5.1	B3.7
19	A6.5	A8.9	B1.7	B1.0	B1.6	B4.0	B3.0	B2.5	B1.2	B1.2	C4.5	B3.2
20	A8.1	B3.5	B2.4	B1.0	B1.1	B5.7	B2.0	B4.4	B1.9	B2.5	C1.6	B3.1
21	A5.8	B1.2	B2.2	A8.6	A8.6	B5.1	B3.3	B1.2	B3.2	B5.4	B5.3	B3.5
22	A7.2	B1.7	B1.9	A7.4	A8.6	B7.5	B1.5	B1.2	B2.6	B3.8	C1.6	B3.5
23	A2.4	B2.1	B2.4	B1.1	B2.4	C1.2	B1.8	B1.3	B2.2	B3.1	B4.0	B5.3
24	A2.0	B2.0	B2.2	B1.4	B3.0	B5.6	B2.8	B1.8	B2.2	B3.1	B4.1	B4.1
25	A2.3	B3.6	B1.6	B1.2	B1.8	B4.3	B2.0	B2.2	B2.7	B2.7	B4.9	B3.7
26	A5.5	B4.3	B2.1	B1.7	A8.0	B3.6	B1.4	B1.7	B3.8	B2.6	B2.4	B5.3
27	A6.3	B3.9	B1.6	B1.5	A5.6	B3.8	B1.4	B2.7	B5.3	B2.2	B3.0	B4.0
28	A6.5	B6.6	B1.4	A9.9	A7.5	B5.6	B2.1	C1.2	B4.4	B2.0	B5.0	B3.8
29	A6.7	B5.0	B1.4	A9.1		B2.5	B2.0	B8.8	B3.7	B2.2	B4.8	B2.6
30	A8.6	B4.6	B1.6	B1.2		B1.8	B3.3	B5.9	B4.4	B1.5	B7.3	B2.8
31	A8.2		B1.5	A6.6		B4.6		B2.7		B1.5	C1.2	

ACTIVE PROMINENCES AND FILAMENTS

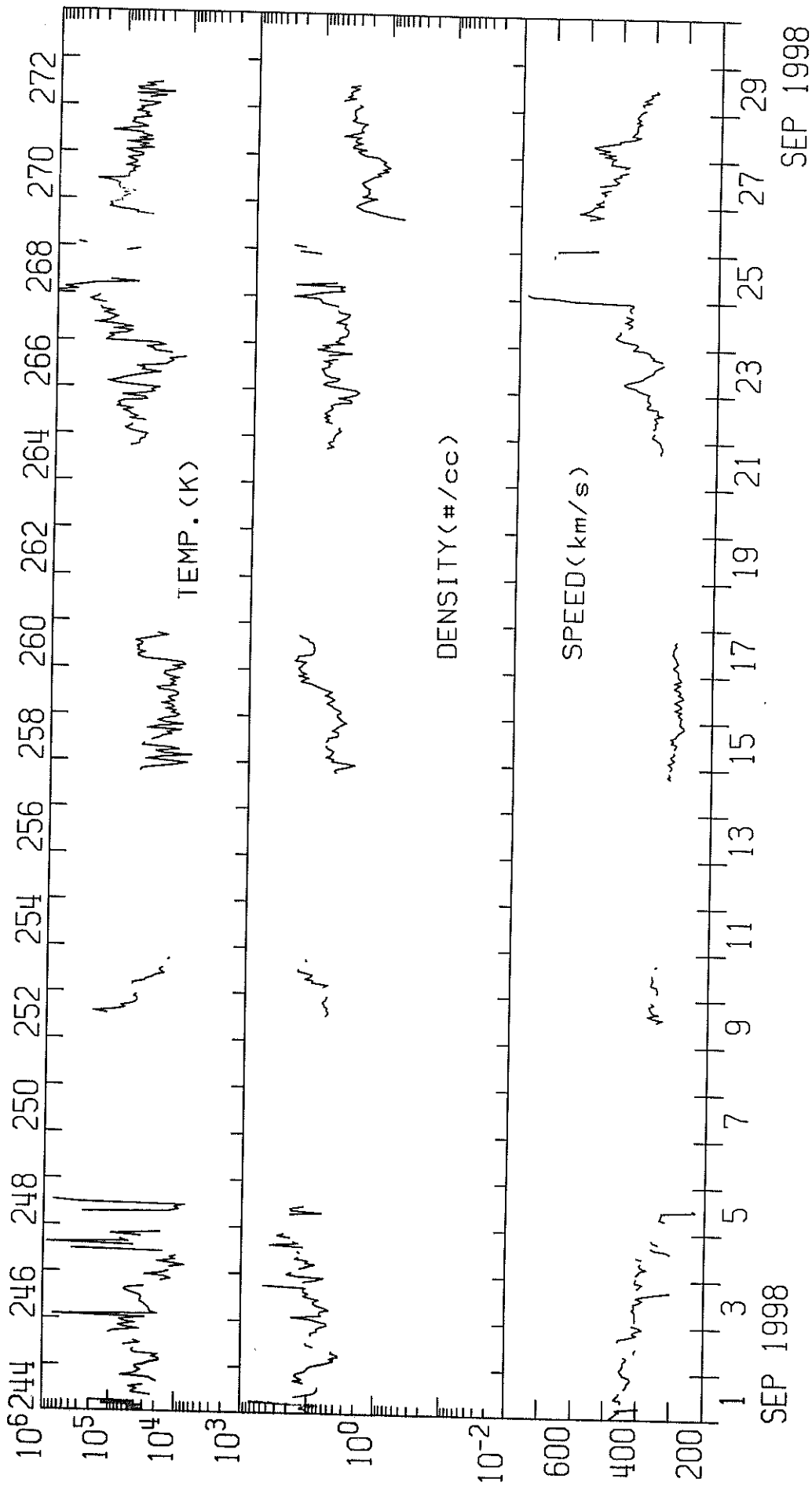
SEPTEMBER 1998

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP No	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
03	LPS	1748	1838	N20	E90	09	10.6			4	2	E	HOLL	8326	Flare Associated
07	ADF	1150	1240	N14	E31	09	9.8	1	03		9	V	KHAR		
07	DSF	1606U	0547U	N25	W10	09	6.9		12	0	0	E	SVTO		
07	DSF	1606U	0547U	S14	W15	09	6.5		24	0	0	E	SVTO		
08	ADF	1000	1050	N16	E19	09	9.9	1	03	6	9	V	KHAR		
08	DSD	1155U	1215D	S13	E22	09	10.2	1	04	9	4	V	KHAR		
08	DSF	1606U	0547U	N25	W10	09	7.9		12	0	0	E	SVTO		
08	DSF	1606U	0547U	S14	W15	09	7.5		24	0	0	E	SVTO		
11	DSD	1054	1120	N21	W19	09	10.0	1	04	9	9	V	KHAR		
11	DSF	1918U	1149U	S38	E19	09	13.3		05	0	0	E	RAMY		
12	DSD	1022	1058	N11	W64	09	7.6	1	05	9	9	V	KHAR		
12	DSD	1107	1130	N10	W57	09	8.1	1	02	9		V	KHAR		
12	DSF	1758U	1111U	S31	W05	09	12.3		05	0	0	E	RAMY		
12	DSF	1758U	1111U	S36	E26	09	14.8		06	0	0	E	RAMY		
13	DSF	0630	0839	S38	E37	09	16.3		05	0	0	E	SVTO		
13	ADF	0910U	1010	N27	W53	09	9.4	1	9	6		V	KHAR		
13	DSF	1210	1309	N24	W44	09	10.1	2	05	9	9	E	RAMY	8326	Flare Associated
17	DSF	0923U	2302U	S29	W15	09	16.2		05	0	0	E	LEAR		
17	DSF	1121U	0617U	S28	E16	09	18.7		06	0	0	E	SVTO		
17	EPL	2221	2250	S90	W24	09	15.7	3		9	9	E	HOLL		
18	APR	0852	1024	N20	E90	09	25.2	1	04	9	9	V	KHAR		
18	ADF	0916U	0945	S19	E37	09	21.2	1	04		9	V	KHAR		
18	BSL	0931	0953	N23	E90	09	25.2	1	04	9		V	KHAR		
18	ADF	1008	1030	S19	E37	09	21.2	1	03		9	V	KHAR		
18	APR	1024	1105	N22	E90	09	25.3	1	05	9	9	V	KHAR		
18	ADF	1040	1110D	S19	E37	09	21.2	1	03		9	V	KHAR		
18	ADF	1103U	1110D	N22	E69	09	23.7	1	04		9	V	KHAR		
19	ADF	0903U	1030	S17	E20	09	20.9	1	02		9	V	KHAR		
19	ADF	0906U	0954	N16	E70	09	24.7	1	04	9	9	V	KHAR		
19	ADF	0909U	0940	N22	E82	09	25.6	1	02	9	9	V	KHAR		
19	ADF	0950	1010	S15	E22	09	21.1	1	02		9	V	KHAR		
19	ADF	1014	1120D	N17	E53	09	23.4	1	04	3	9	V	KHAR		
19	ADF	1023	1120D	S15	E22	09	21.1	1	02	9	9	V	KHAR		
19	ASR	1050	1120D	N18	E78	09	25.4	1	9	9		V	KHAR		
19	ADF	1058	1120D	N22	E80	09	25.5	1	02	9		V	KHAR		
21	DSD	1020	1050	N14	E44	09	24.8	1			9	V	KHAR		
21	DSF	1614U	0601U	S47	E31	09	24.3		12	0	0	E	SVTO		
22	DSF	0932U	0017	N21	W10	09	21.6		20	0	0	E	LEAR		
22	ADF	1000U	1025	S22	E28	09	24.5	1		9		V	KHAR		
22	DSD	1112	1126	N20	E21	09	24.1	1		9		V	KHAR		
22	DSD	1115	1126	S26	W14	09	21.4	1		9		V	KHAR		
26	EPL	1914	1930	S29	W90	09	19.7	3		9	9	E	HOLL	8336	
27	DSF	1628U	1039U	S15	E05	09	28.1		10	0	0	E	RAMY		
28	DSF	1800U	1231U	N23	W52	09	24.7		09	0	0	E	RAMY	8345	
29	DSF	0518U	0700U	N22	W52	09	25.2	3	13	9	9	E	SVTO	8345	
29	BSL	0952	1020	S12	W90	09	22.6	3		9	9	E	SVTO		
30	DSF	0940U	1130U	S22	E15	10	1.5	3	07	9	9	E	SVTO		
30	BSL	1321	1345	N25	W90	09	23.6	3		7	5	E	RAMY	8340	Flare Associated
30	BSL	1321	1400	N26	W90	09	23.6			9	9	E	SVTO	8340	Flare Associated
30	BSL	1430	1443	N17	W90	09	23.8			9	9	E	SVTO	8340	Flare Associated
30	EPL	1431	1438	N14	W90	09	23.8	3		9	9	E	RAMY	8340	Flare Associated
30	LPS	1450	1615	N22	W90	09	23.7			9	9	E	SVTO	8340	Flare Associated
30	LPS	1454	1800	N19	W90	09	23.7			9	9	E	RAMY	8340	Flare Associated
30	LPS	1622	0035	N20	W90	09	23.8			9	9	E	HOLL	8340	

IMP 8 SOLAR WIND PLASMA  
 SEPTEMBER 1998

MIT/CSR

IMP 8 PLASMA PARAMETERS



IMP 8

MIT

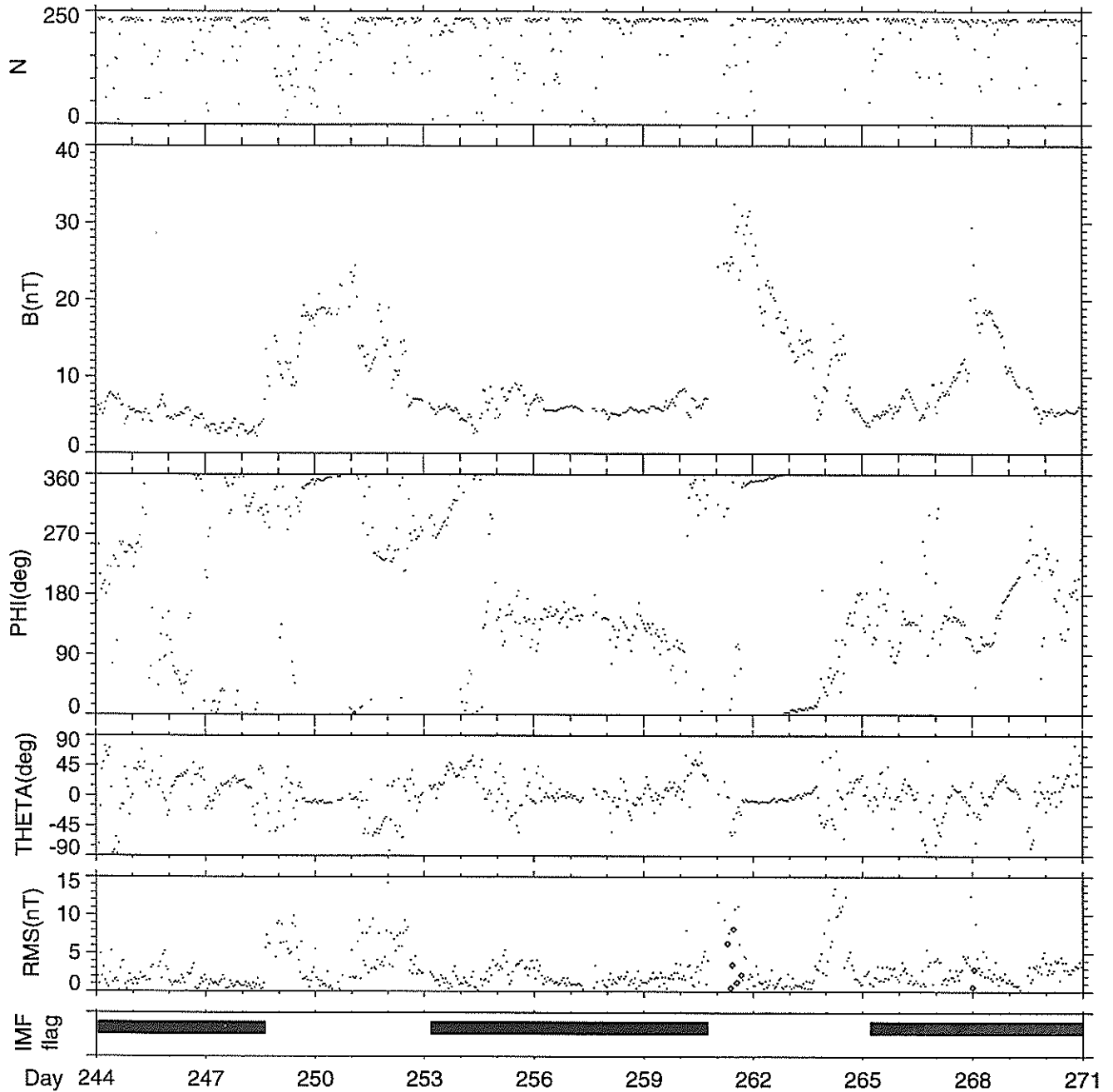
ONE-HOUR AVERAGES

IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

(c) DOY 244 - 271

September 1 1998 - September 28 1998



Generation Date : Mon Nov 23 10:21:58 1998

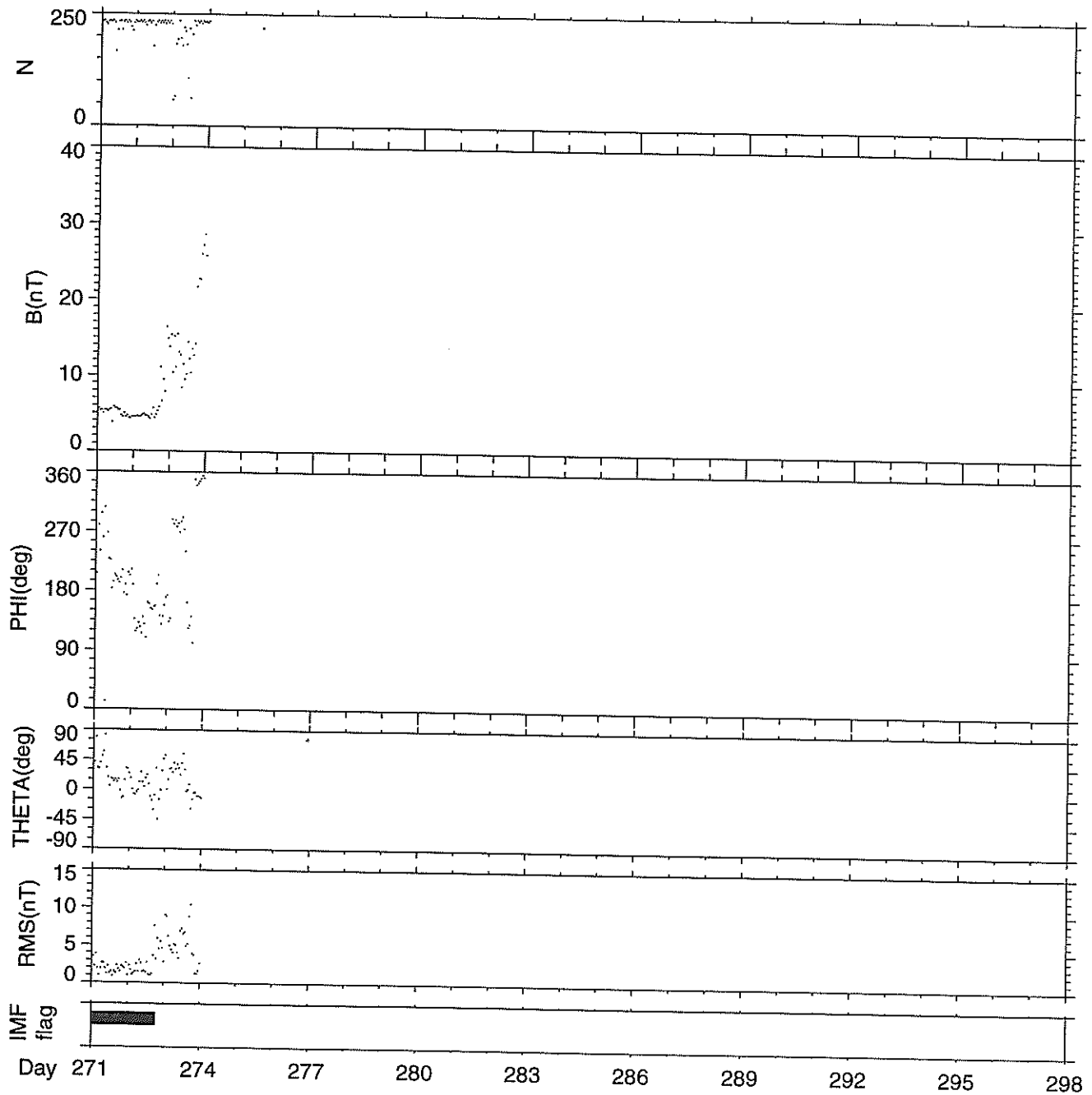
NOTE: The IMF "flag" (black boxes at the bottom of the plots) indicates where the interplanetary magnetic field regions are according to a dynamic model of the location of the bow shock. At all other times IMP-8 is in the magnetosphere.

### IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

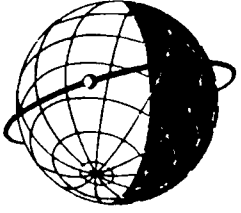
(c) DOY 271 - 274

September 28 1998 - October 1 1998



Generation Date : Mon Nov 23 10:22:00 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**  
**FOR**  
**SOLAR-TERRESTRIAL PHYSICS**



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."