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Data for October 1991

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Hα S O L A R F L A R E S

OCTOBER 1991

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0001	LEAR	01	0117	0119	0130	S11	E07	6850	10	1.6	13	SF	C 3.6	3	E		27		F
0002		01	05403	05414	0600	S13	E07	6850	10	1.8	20	SF	C 9.0				22		E
	LEAR	01	0540	0541	0604	S13	E07	6850	10	1.8	24	SF	C 9.0	3	E		21		E
	SVTO	01	0543	0545	0556	S13	E07	6850	10	1.8	13	SF		2	E		24		
0003	LEAR	01	0551	0555	0609	S21	E14	6853	10	2.3	18	SF		3	E		33		
0004		01	06103	0616	0628	S20	E14	6853	10	2.3	18	SF	M 3.0				24		
	LEAR	01	0610	0616	0625	S22	E13	6853	10	2.2	15	SF	M 3.0	3	E		23		
	SVTO	01	0613	0616	0630	S18	E14	6853	10	2.3	17	SF		3	E		26		
0005		01	0612	06135	0629	S12	E09	6850	10	1.9	17	SN					106	1.4	CF
	WATU	01	0612	0613	0626	S13	E09	6850	10	1.9	14	SN			C	0613	130	1.4	CF
	SVTO	01	0612	0618	0632	S12	E09	6850	10	1.9	20	SN		3	E		81		
0006		01	0716*	0729*	0750	S10	E03	6850	10	1.5	34	SN					100	1.4	EFITVZ
	SVTO	01	0716	0734	0754	S10	E05	6850	10	1.7	38	SF		3	E		53		
	ONDR	01	0722	0739	0751	S10	E05	6850	10	1.7	29	SN			P	0739	137	1.5	EIT
	WATU	01	0726	0729	0735	S10	E03	6850	10	1.5	9	SF			C	0729	50	0.5	
	LEAR	01	0726	0730	0754	S10	E03	6850	10	1.5	28	SF		3	E		54		F
	ISTA	01	0727		0758	S11	E02	6850	10	1.5	31	1N			P				V
	KAND	01	0728	0730	0751	S11	E02	6850	10	1.5	23	1B			P	0730	208	2.2	EFITZ
0007	ONDR	01	0853	0855U	0901	S12	E07	6850	10	1.9	8	SF			P	0855	34	0.4	EIT
0008		01	09212	09232	0930	S12	E06	6850	10	1.8	9	SF	C 4.5				16		DHL
	KHAR	01	0921	0923	0929	S12	E05	6850	10	1.8	8	SF		2	V				DHL
	SVTO	01	0923	0925	0931	S12	E08	6850	10	2.0	8	SF	C 4.5	3	E		16		
0009		01	09531	0955	0959	S11	W01	6850	10	1.3	6	SN					42	0.6	DFHITZ
	KHAR	01	0953	0955	1000	S12	E07	6850	10	1.9	7	SN		2	P	0957	50	0.5	DH
	KAND	01	0954	0955	0958	S11	W05	6850	10	1.0	4	SB			P	0955	62	0.7	DFITZ
	SVTO	01	0954	0955	0959	S10	W05	6850	10	1.0	5	SF		3	E		15		
0010		01	1040	10413	1050	S12	E07	6850	10	2.0	10	SN	M 1.7				52	0.9	EFITZ
	KAND	01	1040	1041	1051	S12	E07	6850	10	2.0	11	SN			P	1041	83	0.9	EFITZ
	SVTO	01	1040	1044	1049	S12	E07	6850	10	2.0	9	SF	M 1.7	3	E		22		
0011	SVTO	01	1113	1113	1123	S11	E01	6850	10	1.5	10	SF	C 3.5	3	E		14		
0012		01	1125*	1147*	1218	S12	E04	6850	10	1.8	53	1N	C 7.5				224	3.0	EFITZ
	SVTO	01	1125	1149	1223	S12	E05	6850	10	1.8	58	1N	C 7.5	3	E		130		F
	KAND	01	1140	1147	1212	S12	E04	6850	10	1.8	32	1B			P	1147	353	3.8	EFITZ
	ONDR	01	1148E	1159U	1200D	S13	E05	6850	10	1.9	12D	1B			P	1159	188	2.1	EIT
	KANZ	01	1208E	1212	1218D	S13	E02	6850	10	1.6	10D	SF		2	C				
0013	SVTO	01	1151	1156	1206	S20	E12	6853	10	2.4	15	SF		3	E		20		
0014		01	13009	1302*	1314	S12	E05	6850	10	1.9	14	SN	C 6.8				46		EF
	SVTO	01	1300	1302	1315	S13	E06	6850	10	2.0	15	SN	C 6.8	3	E		49		
	RAMY	01	1300	1303	1307	S12	E04	6850	10	1.8	7	SN		3	E		39		E
	RAMY	01	1309	1312	1321	S12	E05	6850	10	1.9	12	SN		3	E		51		FE
0015	RAMY	01	1311	1311	1316	S20	E10	6853	10	2.3	5	SF		3	E		48		F
0016		01	1322	1328*	1354	S21	E06	6853	10	2.0	32	SF					46		EFK
	RAMY	01	1322	1328	1354	S21	E06	6853	10	2.0	32	SF			E		49		K
	RAMY	01	1322	1340	1354	S21	E06	6853	10	2.0	32	SF		3	E		44		FE
0017	RAMY	01	1327	1339	1353	S13	E00	6850	10	1.6	26	SF	C 3.6	3	E		32		EF
0018		01	1404*	1404*	1440	S20	E10	6853	10	2.3	36	SF					42		EF
	SVTO	01	1404	1404	1414	S20	E11	6853	10	2.4	10	SF		3	E		26		
	RAMY	01	1404	1408	1418	S20	E09	6853	10	2.3	14	SF		3	E		64		FE
	RAMY	01	1432	1507	1527	S19	E09	6853	10	2.3	55	SF		3	E		36		

Hα SOLAR FLARES

OCTOBER 1991

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0019		01	1407*	1413*	1422	S12	E00	6850	10	1.6	15	SF	C 3.5				30		EF
	RAMY	01	1407	1413	1418	S13	E01	6850	10	1.7	11	SF		3	E		26		
	RAMY	01	1411	1413	1418	S13	E01	6850	10	1.7	7	SF		3	E		26		F
	SVTO	01	1424	1426	1430	S11	W05	6850	10	1.2	6	SF	C 3.5	3	E		13		
	RAMY	01	1437	1515U	1515D	S12	E02	6850	10	1.7	38D	SB	C 4.1	3	E		53		FE
	KANZ	01	1515E	1515U	1527D	S12	E03	6850	10	1.9	12D	SF		2	C				
		01	1551		1606	No Flare Patrol													
0020	RAMY	01	1627	1639	1653	S12	E03	6850	10	1.9	26	SF	C 2.3	3	E		35		F
0021	RAMY	01	1628	1629	1642	S19	E08	6853	10	2.3	14	SF		3	E		27		
		01	1701		1715	No Flare Patrol													
0022	HOLL	01	1708	1711	1723	S12	W01	6850	10	1.6	15	SF		3	E		37		F
		01	1721		1903	No Flare Patrol													
0023	HOLL	01	1745	1753	1759	S12	W04	6850	10	1.4	14	SF	C 4.0	3	E		14		F
0024	HOLL	01	1759	1832	1850	S13	E00	6850	10	1.7	51	SN	C 3.7	3	E		63		E
0025	HOLL	01	1850	1851	1859	N15	W56	6852	09	27.6	9	SF		3	E		15		
0026		01	1909	19198	1949	S13	E01	6850	10	1.9	40	SN	C 9.0				85		EK
	HOLL	01	1909	1919	1957	S12	E02	6850	10	1.9	48	SN	C 9.0	3	E		60		E
	HOLL	01	1909	1926	1957	S12	E02	6850	10	1.9	48	SB			E		105		K
	PALE	01	1922E	1927	1933	S14	W02	6850	10	1.6	11D	SF		3	E		91		
0027		01	2230	22454	2314	S12	W09	6850	10	1.2	44	SN	M 1.8				117		EF
	LEAR	01	2225E	2245	2259	S12	W10	6850	10	1.2	34D	SN		2	E		86		F
	HOLL	01	2228E	2249	2328	S12	W08	6850	10	1.3	60D	1B	M 1.8	3	E		181		FE
	PALE	01	2230	2231U	2231D	S13	W08	6850	10	1.3	1D	SN		1	E		83		F
		01	2304		2326	No Flare Patrol													
0028	LEAR	02	0008	0009	0012	S12	W15	6850	09	30.9	4	SF		3	E		13		F
0029	LEAR	02	0034	0034	0039	S13	W02	6850	10	1.9	5	SF	C 3.2	3	E		32		F
0030	WATU	02	0124	0125	0128	S22	E06	6853	10	2.5	4	SB			C	0125	40	0.5	D
0031		02	0449*	0517	0538	S12	W06	6850	10	1.7	49	1N	C 6.5				148	1.5	EFU
	LEAR	02	0449	0517	0551	S13	W05	6850	10	1.8	62	1F	C 6.5	3	E		157		UF
	MITK	02	0514	0517	0526	S12	W06	6850	10	1.8	12	SN			P	0517	140	1.5	E
0032		02	0647	0649	0658	S12	W08	6850	10	1.7	11	SN	C 4.0				36	0.5	EFI
	LEAR	02	0647	0649	0658	S13	W08	6850	10	1.7	11	SF	C 4.0	3	E		27		F
	ONDR	02	0651E	0652U	0657	S11	W09	6850	10	1.6	6D	SN			P	0652	44	0.5	EI
0033		02	0657*	06581	0714	N18	E22	6855	10	4.0	17	SF					58	0.4	D
	LEAR	02	0657	0658	0709	N18	E23	6855	10	4.0	12	SF		3	E		76		
	WATU	02	0658	0659	0703	N18	E22	6855	10	4.0	5	SF			C	0659	40	0.4	
	ISTA	02	0708		0730	N17	E22	6855	10	4.0	22	SN			P				D
0034		02	07063	0709	0718	S12	W06	6850	10	1.8	12	SN					17		DF
	LEAR	02	0706	0709	0717	S13	W06	6850	10	1.8	11	SF		3	E		17		F
	ISTA	02	0709		0720	S11	W07	6850	10	1.8	11	SN			P				D
0035	LEAR	02	0727	0727	0732	S22	E02	6853	10	2.5	5	SF		3	E		35		
0036		02	08162	0823	0847	S18	W02	6853	10	2.2	31	SF					36		F
	LEAR	02	0816	0823	0847	S20	E01	6853	10	2.4	31	SF		3	E		36		F
	KANZ	02	0818	0822U	0822D	S17	W04	6853	10	2.0	4D	SF		2	C				

Hα SOLAR FLARES

OCTOBER 1991

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0037		02	0830*	0832*	0855	S12	W07	6850	10	1.8	25	SN	C 6.2				98		EFITZ
	LEAR	02	0830	0832	0847	S13	W08	6850	10	1.7	17	SF		3	E		37		F
	LEAR	02	0849	0851	0905	S13	W06	6850	10	1.9	16	SF	C 6.2	3	E		69		F
	KAND	02	0850	0851	0854	S12	W07	6850	10	1.8	4	SN			P	0851	187		EFITZ
	ISTA	02	0859E		0903D	S10	W07	6850	10	1.8	4D	1B			P				F
0038	LEAR	02	0835	0836	0844	N17	E16	6855	10	3.6	9	SF		3	E		19		
0039		02	08523	08532	0908	S26	E14	6860	10	3.4	16	SF					30	0.5	E
	KAND	02	0852	0853	0910	S26	E14	6860	10	3.4	18	SF			P	0853	42	0.5	E
	LEAR	02	0855	0855	0907	S27	E14	6860	10	3.5	12	SF		3	E		17		
0040	ISTA	02	0858		0917	S14	E13	6853	10	3.3	19	SN			P				D
0041	LEAR	02	0916	0923	0932	S11	W16	6850	10	1.2	16	SF		3	E		15		F
0042		02	0924	09252	0930	N17	E19	6855	10	3.8	6	SF					71	1.1	E
	LEAR	02	0924	0925	0930	N15	E17	6855	10	3.7	6	SF		3	E		38		
	KAND	02	0924	0927	0930	N19	E21	6855	10	4.0	6	SF			P	0927	104	1.1	E
0043	ISTA	02	0930		0942	S10	W66		09	27.5	12	SN			P				DG
0044	SVTO	02	1011	1014	1019	N18	E16	6855	10	3.6	8	SF		3	E		32		
0045		02	10318	10381	1051	N18	E18	6855	10	3.8	20	SF					64		
	SVTO	02	1031	1038	1056	N18	E15	6855	10	3.6	25	SF		3	E		64		
	KANZ	02	1039	1039	1046	N17	E20	6855	10	4.0	7	SF		2	C				
0046	KANZ	02	1106	1110	1129D	N17	E20	6855	10	4.0	23D	SF		2	C				
0047	HTPR	02	1120		1240	S15	E45	6862	10	5.9	80	1F			C	1155	240	3.7	G
0048		02	1156*	1203*	1218	N18	E19	6855	10	3.9	22	SF	C 3.2				62	0.8	EFH
	KANZ	02	1156	1207	1214	N18	E18	6855	10	3.9	18	SF		2	C				
	SVTO	02	1201	1203	1214	N19	E18	6855	10	3.9	13	SF	C 3.2	3	E		23		H
	KAND	02	1202	1207	1212	N19	E19	6855	10	3.9	10	SB			P	1207	83	0.9	EFH
	HTPR	02	1203	1207	1230	N17	E18	6855	10	3.9	27	SF			C	1207	80	0.8	H
	KAND	02	1214	1216	1218	N17	E20	6855	10	4.0	4	SF			P	1216	62	0.7	E
0049	KANZ	02	1233	1233	1237	N18	E21	6855	10	4.1	4	SF		2	C				
0050		02	13592	14023	1413	S12	W15	6850	10	1.4	14	SF	C 4.6				38		FH
	SVTO	02	1359	1402	1412	S12	W14	6850	10	1.5	13	SF	C 4.6	3	E		47		FH
	KANZ	02	1401	1405	1413	S11	W21	6850	10	1.0	12	SF		2	C				
	KANZ	02	1401	1405	1413	S12	W08	6850	10	2.0	12	SF		2	C				
	HOLL	02	1402E	1407U	1411D	S12	W18	6850	10	1.2	9D	SF		2	E		28		F
0051		02	14516	14534	1502	N14	E20	6855	10	4.1	11	SF					32		FH
	HOLL	02	1451	1453	1504	N16	E19	6855	10	4.0	13	SF		3	E		63		FH
	KANZ	02	1453	1453	1505	N16	E19	6855	10	4.1	12	SF		2	C				
	SVTO	02	1453	1454	1500	N16	E19	6855	10	4.1	7	SF		3	E		20		H
	HOLL	02	1455	1455	1501	N11	E21	6855	10	4.2	6	SF		3	E		12		
	KANZ	02	1457	1457	1501	N11	E21	6855	10	4.2	4	SF		2	C				
0052		02	15307	15343	1540	N18	E15	6855	10	3.8	10	SF					44	0.6	EFH
	HTPR	02	1530	1534	1540	N18	E15	6855	10	3.8	10	SF			C	1534	60	0.6	H
	RAMY	02	1532	1535	1539	N18	E15	6855	10	3.8	7	SF		3	E		31		F
	HOLL	02	1534	1535	1542	N19	E15	6855	10	3.8	8	SF		3	E		40		FE
	KANZ	02	1537	1537	1541	N19	E14	6855	10	3.7	4	SF		2	C				
0053	KANZ	02	1553	1557	1601	S12	W12	6850	10	1.7	8	SF		2	C				
0054	HOLL	02	1723	1723	1729	N10	E39	6861	10	5.6	6	SF		3	E		14		
0055	HOLL	02	1740	1741	1743	S15	W08	6853	10	2.1	3	SF		3	E		15		
0056	RAMY	02	1810	1823	1827	S11	W16	6850	10	1.5	17	SF		3	E		33		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0057		02	1815	18172	1842	S20	W10	6853	10	2.0	27	SN	C 4.5				46		EF
	HOLL	02	1815	1817	1842	S18	W10	6853	10	2.0	27	SN	C 4.5	3	E		72		FE
	PALE	02	1816E	1819	1824D	S21	W10	6853	10	2.0	8D	SF		2	E		20		
0058	HOLL	02	1912	1913	1916	N19	E13	6855	10	3.8	4	SF		3	E		15		
0059	PALE	02	1933	1935U	1949D	S12	W18	6850	10	1.4	16D	SF		2	E		30		
0060		02	1942	1943*	2004	N14	E16	6855	10	4.0	22	SF					53		EF
	HOLL	02	1942	1943	2004	N16	E14	6855	10	3.9	22	SF		3	E		34		FE
	PALE	02	1949E	1954	2010D	N12	E19	6855	10	4.2	21D	SF		2	E		72		F
0061	HOLL	02	2110	2113	2116	S12	W16	6850	10	1.7	6	SF		3	E		14		F
0062	HOLL	02	2142	2154	2201	S13	W13	6850	10	1.9	19	SF	C 3.1	3	E		16		EF
0063	HOLL	02	2219	2236	2316	S12	W14	6850	10	1.9	57	SN	C 8.4	3	E		63		EF
0064	VORO	03	0041	0043	0059	S18	W19	6853	10	1.6	18	1N		1	C	0043	206	2.4	DIJT
0065	LEAR	03	0048	0048	0059	S11	W19	6850	10	1.6	11	SF		3	E		14		F
0066		03	0111*	0147	0211	S28	W26	6858	10	1.0	60	SF					34		F
	LEAR	03	0111	0147	0232	S28	W26	6858	10	1.0	81	SF		3	E		54		F
	PALE	03	0143	0147	0150	S28	W27	6858	10	1.0	7	SF		3	E		14		
0067		03	01413	01425	0208	S18	W16	6853	10	1.8	27	1N	M 1.2				163	2.9	EFL
	WATU	03	0141	0142	0150	S17	W18	6853	10	1.7	9	SN			C	0142	120	1.4	FL
	MITK	03	0141	0143	0157	S18	W18	6853	10	1.7	16	1N			C	0143	190	2.3	E
	LEAR	03	0141	0143	0207	S17	W20	6853	10	1.5	26	SN		3	E		93		FE
	LEAR	03	0141	0143	0233	S20	W09	6853	10	2.4	52	1N	M 1.2	3	E		127		FE
	PALE	03	0143	0145	0224	S21	W10	6853	10	2.3	41	1F		3	E		102		F
	PALE	03	0144	0147	0209	S18	W17	6853	10	1.8	25	SF		3	E		93		
	PEKG	03	0146E	0146	0159	S18	W18	6853	10	1.7	13D	1N			P	0146	420	5.0	E
0068	LEAR	03	0233	0234	0238	N08	E34	6861	10	5.6	5	SF		3	E		14		
0069	LEAR	03	0252	0255	0319	S15	W17	6850	10	1.8	27	SF		3	E		34		
0070	LEAR	03	0423	0426	0429	S13	W18	6850	10	1.8	6	SF		3	E		18		
0071	WATU	03	0517	0521	0524	S13	W18	6850	10	1.9	7	SF			C	0521	50	0.6	
0072		03	0544	05451	0551	N15	E07	6855	10	3.8	7	SF					36	0.4	E
	WATU	03	0544	0545	0548	N14	E09	6855	10	3.9	4	SN			C	0545	30	0.3	E
	LEAR	03	0544	0545	0552	N18	E04	6855	10	3.5	8	SF		3	E		36		
	TACH	03	0544	0546	0552	N14	E08	6855	10	3.8	8	SF		2	C	0546	41	0.4	E
0073		03	06032	06052	0615	N09	E33	6861	10	5.7	12	SN					88	1.3	D
	SVTO	03	0603	0606	0626	N09	E33	6861	10	5.7	23	SN		3	E		52		
	WATU	03	0604	0605	0609	N09	E32	6861	10	5.6	5	SN			C	0605	30	0.4	D
	TACH	03	0604	0606	0612	N10	E33	6861	10	5.7	8	SF		2	C	0606	71	0.9	D
	LEAR	03	0604	0606	0614	N09	E33	6861	10	5.7	10	SN		3	E		79		
	PEKG	03	0605	0607	0614	N10	E32	6861	10	5.6	9	1N			P	0605	210	2.6	D
0074		03	0607*	0607*	0643	S13	W19	6850	10	1.8	36	SF	M 1.1				71	1.2	EFIK
	LEAR	03	0607	0607	0614	S11	W22	6850	10	1.6	7	SF		3	E		14		
	SVTO	03	0608	0628	0706	S15	W18	6850	10	1.9	58	SF		3	E		46		F
	LEAR	03	0620	0623	0644	S11	W22	6850	10	1.6	24	SF	M 1.1	3	E		25		F
	TACH	03	0620	0623	0646	S12	W20	6850	10	1.7	26	SF		2	C	0623	71	0.8	E
	WATU	03	0621	0627	0635	S14	W18	6850	10	1.9	14	SF			C	0627	60	0.7	EK
	ABST	03	0623	0627	0640	S14	W17	6850	10	2.0	17	SN			C	0627	131	1.5	E
	ONDR	03	0624E	0627	0658	S14	W17	6850	10	2.0	34D	SN			P	0627	154	1.8	EI
0075		03	06101	06112	0618	N15	E10	6855	10	4.0	8	SF					57	0.7	DEFH
	PEKG	03	0610	0611	0621	N15	E10	6855	10	4.0	11	SN			P	0614	84	0.9	D
	TACH	03	0610	0612	0618	N16	E09	6855	10	3.9	8	SF		2	C	0612	51	0.5	F
	LEAR	03	0610	0613	0617	N14	E11	6855	10	4.1	7	SF		3	E		33		H
	WATU	03	0611	0613	0615	N16	E09	6855	10	3.9	4	SF			C	0613	60	0.6	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0076		03	08484	08524	0900	S13	W22	6850	10	1.7	12	SF					42	0.8	EF
	LEAR	03	0848	0853	0901	S11	W24	6850	10	1.6	13	SF		3	E		32		F
	ONDR	03	0851	0852	0858	S14	W22	6850	10	1.7	7	SN			P	0852	72	0.8	E
	SVTO	03	0852	0852	0900	S13	W19	6850	10	1.9	8	SF		3	E		22		
	KANZ	03	0852	0856	0900	S13	W21	6850	10	1.8	8	SF		2	C				
0077	SVTO	03	0927	0931	0934	S12	W28	6850	10	1.3	7	SF	C 4.1	3	E		14		F
0078		03	09488	0948*	1002	S18	W20	6853	10	1.9	14	SF					23		
	KANZ	03	0948	0948	0952	S18	W20	6853	10	1.9	4	SF		2	C				
	SVTO	03	0956	1002	1012	S18	W21	6853	10	1.8	16	SF		3	E		23		
0079		03	10048	10093	1023	S12	W20	6850	10	1.9	19	SF	C 5.8				109	2.0	
	SVTO	03	1004	1009	1027	S13	W20	6850	10	1.9	23	SF	C 5.8	3	E		38		
	HTPR	03	1008	1010	1015	S12	W20	6850	10	1.9	7	SN			C	1010	180	2.0	
	KANZ	03	1012	1012	1028	S12	W20	6850	10	1.9	16	SF		2	C				
0080		03	10435	1052*	1123	S13	W22	6850	10	1.8	40	SF	C 4.7				44	0.7	DF
	SVTO	03	1043	1107	1126	S13	W20	6850	10	1.9	43	SF	C 4.7	3	E		29		F
	HTPR	03	1047		1120	S12	W22	6850	10	1.8	33	SF			C	1058	60	0.7	D
	KANZ	03	1048	1052	1124	S13	W23	6850	10	1.7	36	SF		2	C				
0081		03	1235*	1317	1409	S14	W23	6850	10	1.8	94	1N					128	2.1	EF
	SVTO	03	1235	1317	1428	S14	W21	6850	10	1.9	113	SF		3	E		66		F
	HTPR	03	1310		1350	S15	W25	6850	10	1.6	40	1N			C	1327	190	2.1	E
0082		03	1314*	1316*	1407	S18	W19	6853	10	2.1	53	SF	C 7.9				54		FK
	SVTO	03	1314	1319	1413	S17	W18	6853	10	2.2	59	SF	C 7.9	3	E		34		F
	SVTO	03	1314	1328	1413	S17	W18	6853	10	2.2	59	SF			E		85		K
	KANZ	03	1316	1316	1408	S15	W18	6853	10	2.2	52	SF		2	C				
	KANZ	03	1324	1328	1348	S18	W22	6853	10	1.9	24	SF		2	C				
	RAMY	03	1330E	1340	1409	S19	W20	6853	10	2.0	39D	SF			E		51		K
	RAMY	03	1330E	1348	1409	S19	W20	6853	10	2.0	39D	SF		3	E		47		F
0083		03	15243	15262	1537	S15	W33	6850	10	1.1	13	SF	C 3.1				28		EF
	KANZ	03	1524	1528	1540	S15	W37	6850	09	30.8	16	SF		2	C				
	SVTO	03	1525	1526	1536	S17	W37	6850	09	30.8	11	SF		3	E		27		F
	RAMY	03	1527	1528	1535	S13	W26	6850	10	1.7	8	SF	C 3.1	3	E		28		FE
0084		03	15364	15391	1547	N18	E01	6855	10	3.7	11	SF					57	1.0	D
	HTPR	03	1536	1540	1545	N18	E00	6855	10	3.6	9	SN			C	1540	100	1.0	D
	HOLL	03	1537	1540	1551	N18	E00	6855	10	3.6	14	SF		3	E		49		
	SVTO	03	1538	1539	1547	N18	E02	6855	10	3.8	9	SF		3	E		23		
	KANZ	03	1540	1540	1544	N18	E03	6855	10	3.9	4	SF		2	C				
0085	HOLL	03	1707	1713	1715	S27	W02	6860	10	3.5	8	SF		3	E		13		
0086	HOLL	03	1752	1754	1759	S19	W20	6853	10	2.2	7	SF		3	E		10		
0087		03	18121	18141	1823	N18	E01	6855	10	3.8	11	SF					20		F
	HOLL	03	1812	1815	1824	N19	E02	6855	10	3.9	12	SF		3	E		22		
	RAMY	03	1813	1814	1822	N18	E00	6855	10	3.7	9	SF		3	E		18		F
0088	PALE	03	1841	1843	1848	S12	W30	6850	10	1.5	7	SF	C 3.0	3	E		18		F
0089	PALE	03	1903	1904	1906	S12	W30	6850	10	1.5	3	SF		3	E		10		
0090		03	20313	20363	2058	N09	E24	6861	10	5.6	27	1N	C 3.9				104		EF
	HOLL	03	2031	2039	2110	N09	E25	6861	10	5.7	39	1N	C 3.9	3	E		135		FE
	PALE	03	2034	2036	2046	N09	E23	6861	10	5.6	12	SF		3	E		73		F
0091	HOLL	03	2058	2059	2104	S15	E68	6863	10	9.0	6	SF		3	E		29		F
0092	HOLL	03	2158	2236	2249	S13	W26	6850	10	1.9	51	SN		3	E		33		EF
0093	HOLL	03	2316	2321	2335	N18	W03	6855	10	3.7	19	SF		3	E		24		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0094		03	2358*	2402*	2528	S14	W30	6850	10	1.7	90	1N					212	4.6	EFKT
	HOLL	03	2358	2402	2439D	S14	W27	6850	10	1.9	41D	SN		3	E		33		FE
	LEAR	03	2358	2444	2546	S12	W33	6850	10	1.5	108	1N		3	E		177		F
	LEAR	04	0021	0035	0142	S13	W31	6850	10	1.7	81	1N			E		104		K
	LEAR	04	0021	0045	0142	S13	W31	6850	10	1.7	81	1N		3	E		238		F
	WATU	04	0025	0031	0048	S14	W28	6850	10	1.9	23	SN			C	0031	130	1.6	ET
	PEKG	04	0047	0050	0122	S16	W30	6850	10	1.7	35	2N			P	0050	589	7.5	E
0095		04	0036*	0044*	0108	S18	W28	6853	10	1.9	32	1N					135	1.8	DEF
	PALE	04	0025E	0100U	0100D	S19	W26	6853	10	2.0	35D	1F		3	E		132		F
	MITK	04	0036	0044	0107	S16	W27	6853	10	2.0	31	1N			C	0044	190	2.4	E
	PEKG	04	0103	0104	0109	S18	W30	6853	10	1.7	6	SN			P	0104	84	1.1	D
0096	LEAR	04	0243	0247	0330	S13	W34	6850	10	1.5	47	SF	C 2.3	3	E		56		F
0097	LEAR	04	0422	0432	0444	S12	W35	6850	10	1.5	22	SF		3	E		42		
0098		04	06541	0656	0704	S14	W34	6850	10	1.7	10	SF	C 2.4				30		
	LEAR	04	0654	0656	0707	S14	W35	6850	10	1.6	13	SF		3	E		38		
	SVTO	04	0655	0656	0703	S15	W34	6850	10	1.7	8	SF	C 2.4	3	E		21		
	KANZ	04	0658E		0702	S14	W34	6850	10	1.7	4D	SF		2	C				
0099		04	0850	08502	0859	N10	E18	6861	10	5.7	9	SF	C 2.9				55	1.1	E
	KANZ	04	0850	0850	0858	N10	E18	6861	10	5.7	8	SF		2	C				
	SVTO	04	0850	0850	0859	N10	E18	6861	10	5.7	9	SF	C 2.9	3	E		14		
	ONDR	04	0850E	0852	0859	N10	E19	6861	10	5.8	9D	SN			P	0852	96	1.1	E
0100		04	08562	0858*	0922	S14	W36	6850	10	1.6	26	SN	C 2.7				68	0.9	DEFHI
	ONDR	04	0856	0858	0915D	S13	W36	6850	10	1.6	19D	SN			P	0858	89	1.2	EI
	SVTO	04	0858	0914	0924	S15	W36	6850	10	1.6	26	SN	C 2.7	3	E		70		FH
	KANZ	04	0858	0914	0926	S14	W35	6850	10	1.7	28	SF		2	C				
	TACH	04	0905E		0915	S13	W37	6850	10	1.6	10D	SF		1	C	0905	46	0.6	D
0101		04	09331	09415	1017	S16	W32	6853	10	2.0	44	1N	M 1.2				256	5.5	EFITU
	ONDR	04	0930U	0944	1029	S17	W32	6853	10	2.0	59U	2B			P	0944	533	7.1	FEIT
	SVTO	04	0933	0944	1004	S18	W30	6853	10	2.1	31	SN	M 1.2	3	E		60		F
	HTPR	04	0934E	0941	1010	S15	W35	6853	10	1.7	36D	1N			C	0941	300	3.9	U
	KANZ	04	0934	0946	1026	S16	W31	6853	10	2.0	52	1N		2	C				
	LEAR	04	0935E	0945U	1004D	S16	W33	6853	10	1.9	29D	1F		2	E		131		
0102		04	1342*	13535	1423	S13	W37	6850	10	1.8	41	SN	C 3.3				74	1.3	EFIT
	HTPR	04	1342	1355	1430	S13	W38	6850	10	1.7	48	SN			C	1355	130	1.7	
	ONDR	04	1346	1353	1423	S13	W36	6850	10	1.8	37	SN			P	1353	68	0.9	EIT
	RAMY	04	1349	1354	1423	S12	W37	6850	10	1.8	34	SF	C 3.3	4	E		32		FE
	HOLL	04	1351E	1401U	1421	S14	W39	6850	10	1.6	30D	SN		2	E		67		FE
	KANZ	04	1354	1358	1418	S13	W37	6850	10	1.8	24	SF		2	C				
0103	HOLL	04	1554	1557	1609	S13	W38	6850	10	1.8	15	SN	C 2.2	3	E		55		EF
0104	HOLL	04	1738	1742	1835	S12	W38	6850	10	1.9	57	SF	C 2.2	3	E		23		F
0105		04	19231	1931	2006	N10	E12	6861	10	5.7	43	SB	M 5.2				68		F
	HOLL	04	1923	1931	2006	N10	E12	6861	10	5.7	43	SB		3	E		74		F
	RAMY	04	1924	1927U	1927D	N09	E12	6861	10	5.7	3D	SB	M 5.2	3	E		62		F
0106	HOLL	04	2108	2108	2114	S11	W41	6850	10	1.8	6	SF	C 1.9	3	E		19		F
0107	HOLL	04	2228	2233	2256	S11	W46	6850	10	1.5	28	SN		3	E		14		E
0108		05	0134*	0139*	0223	S18	W42	6853	10	1.9	49	1F	C 6.3				152	2.6	DFU
	PALE	05	0134	0139	0152	S17	W40	6853	10	2.0	18	1F		3	E		124		UF
	PALE	05	0136	0143	0227	S19	W41	6853	10	1.9	51	1F		3	E		102		F
	LEAR	05	0140E	0218	0243	S19	W41	6853	10	1.9	63D	1F	C 6.3	3	E		214		F
	PEKG	05	0156	0202	0230	S18	W44	6853	10	1.7	34	1N			C	0202	168	2.6	D
0109		05	0135	01403	0208	S14	W44	6850	10	1.7	33	1N					202	3.2	EFIJKT
	PEKG	05	0135	0140	0153	S16	W44	6850	10	1.7	18	1N			C	0140	294	4.5	E
	VORO	05	0135	0140	0244	S14	W44	6850	10	1.7	69	1F		2	C	0143	188	2.8	EIJT
	WATU	05	0135	0143	0149	S14	W42	6850	10	1.9	14	1N			C	0143	160	2.4	ET
	LEAR	05	0140E	0140	0206	S13	W44	6850	10	1.7	26D	1F		3	E		165		FK

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0110	LEAR	05	0331	0331	0341	S13	W43	6850	10	1.9	10	SF		3	E		23		
0111	SVTO	05	0558	0609	0649	N07	E05	6861	10	5.6	51	SF	C 4.1	3	E		74		F
0112	ONDR	05	0709	0716	0750	S12	W48	6850	10	1.7	41	SN			P	0716	82	1.3	EI
0113	KANZ	05	0729	0733	0749	S22	W46	6853	10	1.8	20	SF		2	C				
0114		05	08001	08013	0812	N10	E05	6861	10	5.7	12	SF	C 6.1				66	0.8	E
	WATU	05	0800	0802	0802D	N10	E05	6861	10	5.7	2D	SN			P	0802	80	0.8	E
	SVTO	05	0800	0804	0814	N10	E05	6861	10	5.7	14	SF	C 6.1	3	E		39		
	KANZ	05	0801	0801	0809	N10	E06	6861	10	5.8	8	SF		2	C				
	ONDR	05	0801	0802U	0802U	N10	E05	6861	10	5.7	1U	SF			P	0802	79	0.8	E
0115		05	08314	08373	0848	S17	E52	6863	10	9.3	17	SF					40	1.2	Y
	TACH	05	0831	0837	0849	S17	E52	6863	10	9.3	18	SN		2	C	0837	60	1.2	Y
	KANZ	05	0833	0837	0849	S17	E52	6863	10	9.3	16	SF		2	C				
	SVTO	05	0835	0840	0845	S16	E51	6863	10	9.2	10	SF		3	E		20		
0116		05	0925*	0925*	1002	S12	W48	6850	10	1.8	37	SF	C 2.4				74	1.3	EFI
	HTPR	05	0925	0925	0930	S12	W45	6850	10	2.0	5	SF			C	0925	30	0.4	
	SVTO	05	0928	0937	1016	S13	W49	6850	10	1.7	48	SF	C 2.4	3	E		52		F
	HTPR	05	0934		0941D	S12	W50	6850	10	1.6	7D	SF			C	0941	40	0.6	
	KANZ	05	0937	0945	1017	S13	W48	6850	10	1.8	40	SF		2	C				
	ONDR	05	0937E	0954	1005	S12	W50	6850	10	1.6	28D	1N			P	0954	174	3.0	EI
0117	KANZ	05	0949	0949	0957	S22	W48	6853	10	1.7	8	SF		2	C				
0118		05	1024*	10481	1139	S12	W48	6850	10	1.8	75	1N	M 1.1				131	2.4	EFI
	SVTO	05	1024	1048	1137	S13	W48	6850	10	1.8	73	SN	M 1.1	3	E		95		F
	KANZ	05	1029	1049	1141	S12	W48	6850	10	1.8	72	1F		2	C				
	ONDR	05	1034	1048	1140	S11	W47	6850	10	1.9	66	1B			P	1048	208	3.3	EIF
	HTPR	05	1036E		1038D	S12	W50	6850	10	1.7	2D	SN			C	1038	90	1.4	
0119		05	12027	12072	1212	S12	W46	6850	10	2.0	10	SF					27		F
	RAMY	05	1202	1207	1211	S12	W48	6850	10	1.9	9	SF		3	E		27		F
	KANZ	05	1209	1209	1213	S13	W44	6850	10	2.2	4	SF		2	C				
0120	RAMY	05	1206	1218	1228	N09	E04	6861	10	5.8	22	SF		3	E		25		F
0121		05	14343	14361	1440	S13	W45	6850	10	2.2	6	SN					35		E
	SVTO	05	1434	1436	1440	S14	W46	6850	10	2.1	6	SN		3	E		39		
	HOLL	05	1436	1437	1440	S11	W45	6850	10	2.2	4	SN		2	E		31		E
	KANZ	05	1437	1437	1441	S13	W45	6850	10	2.2	4	SF		2	C				
0122	HOLL	05	1527	1529	1541	N11	E01	6861	10	5.7	14	SF		3	E		39		F
		05	1640		1651	No Flare Patrol													
0123	HOLL	05	1657	1731	1734	S12	W52	6850	10	1.8	37	SF		3	E		25		
0124	HOLL	05	1721	1721	1732	S15	E46	6863	10	9.2	11	SF		3	E		25		
0125		05	1859*	1901*	1921	S12	W50	6850	10	2.0	22	SF					18		
	PALE	05	1859	1901	1912D	S13	W47	6850	10	2.2	13D	SF		3	E		20		
	HOLL	05	1917	1919	1921	S12	W52	6850	10	1.9	4	SF		3	E		15		
0126	RAMY	05	1939	1940	1945	S12	W53	6850	10	1.8	6	SF		3	E		14		F
		05	2027		2032	No Flare Patrol													
0127	HOLL	05	2111	2117	2132	N10	W02	6861	10	5.7	21	SF		3	E		18		EF
0128	HOLL	05	2148	2152	2206	N10	W02	6861	10	5.7	18	SF		3	E		32		F
		05	2318		2325	No Flare Patrol													
0129	LEAR	06	0231	0302	0307	S10	W58	6850	10	1.7	36	SF		3	E		38		

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0130	LEAR	06	0314	0325	0332	S11	W60	6850	10	1.6	18	SF		3	E		25		
0131		06	05311	05336	0550	N09	W06	6861	10	5.8	19	SN	C 3.7				131	1.7	DFU
	TACH	06	0531	0533	0550	N10	W06	6861	10	5.8	19	1B		2	C	0533	230	2.4	U
	SVTO	06	0532	0534	0555	N08	W06	6861	10	5.8	23	SN	C 3.7	3	E		47		F
	WATU	06	0532	0539	0547	N09	W07	6861	10	5.7	15	SF			C	0539	80	0.8	
	PEKG	06	0536E	0536	0550	N09	W07	6861	10	5.7	14D	SB			P	0536	168	1.8	D
0132	LEAR	06	0620	0624	0705	N17	W33	6855	10	3.7	45	SF		3	E		33		F
0133		06	08003	0807*	0827	N09	W08	6861	10	5.7	27	SF	C 1.7				70	1.7	EF
	SVTO	06	0800	0818	0829	N09	W08	6861	10	5.7	29	SF	C 1.7	4	E		32		F
	LEAR	06	0802	0816	0826	N09	W07	6861	10	5.8	24	SF		3	E		20		F
	KANZ	06	0803	0807	0827	N09	W08	6861	10	5.7	24	SF		2	C				
	ONDR	06	0806E	0806U	0825	N10	W08	6861	10	5.7	19D	SN			P	0806	157	1.7	EF
0134		06	09514	09554	1003	S09	W69	6850	10	1.2	12	SB					34	1.1	DIX
	KANZ	06	0951	0955	0959	S10	W69	6850	10	1.2	8	SN		2	C				
	ONDR	06	0952	0957	1002	S09	W69	6850	10	1.2	10	SB			P	0957	34	1.1	DI
	KHAR	06	0955	0959	1008	S09	W70	6850	10	1.1	13	SB		2	V	0959			DX
0135	SVTO	06	1349	1352	1357	S21	W62	6853	10	1.8	8	SF		3	E		19		
0136	RAMY	06	1518	1519	1522	N09	W11	6861	10	5.8	4	SF		3	E		18		F
0137	HOLL	06	1531	1533	1538	S08	W74	6850	10	1.1	7	SN	C 1.5	4	E		43		EH
0138	HOLL	06	1559	1601	1612	N09	W12	6861	10	5.8	13	SF		4	E		31		F
0139		06	18362	18371	1850	S12	W65	6850	10	1.9	14	SF	C 2.8				22		EF
	RAMY	06	1836	1837	1849	S12	W66	6850	10	1.8	13	SF	C 2.8	3	E		19		FE
	HOLL	06	1836	1838	1848	S12	W66	6850	10	1.8	12	SF	C 2.8	3	E		25		F
	PALE	06	1838	1838	1854	S13	W64	6850	10	1.9	16	SF		3	E		22		F
0140	HOLL	06	2151	2154	2159	S13	W64	6850	10	2.1	8	SF	C 2.1	3	E		19		
0141	HOLL	06	2333	2334	2339	N17	W44	6855	10	3.6	6	SF		3	E		14		
0142	HOLL	06	2358	2401	2406	S12	W70	6850	10	1.7	8	SF		3	E		40		
0143		07	01173	01232	0134	N08	W19	6861	10	5.6	17	SN	C 3.5				95	1.2	EFS
	WATU	07	0117	0123	0132	N09	W19	6861	10	5.6	15	SN			C	0123	60	0.7	FS
	LEAR	07	0117	0125	0137	N08	W18	6861	10	5.7	20	SF	C 3.5	3	E		56		F
	PEKG	07	0120	0125	0133	N08	W20	6861	10	5.5	13	SN			C	0125	168	1.8	E
0144		07	05522	0555*	0617	N08	W21	6861	10	5.7	25	SF	C 6.0				95	1.2	EFK
	PEKG	07	0552	0606	0627	N08	W22	6861	10	5.6	35	SN			C	0605	168	1.8	E
	WATU	07	0553	0555	0605	N10	W22	6861	10	5.6	12	SN			C	0555	50	0.6	F
	SVTO	07	0553	0601	0620	N08	W21	6861	10	5.7	27	1F			E		115		K
	SVTO	07	0553	0605	0620	N08	W21	6861	10	5.7	27	SF		3	E		46		
	LEAR	07	0554	0557	0614	N08	W20	6861	10	5.7	20	SF	C 6.0	3	E		94		
0145	ABST	07	0725	0727	0735	N16	W47	6855	10	3.7	10	SF			C	0727	131	1.9	E
0146	LEAR	07	0801	0803	0811	S14	W71	6850	10	2.0	10	SF	C 2.3	3	E		13		
0147		07	08207	0827	0835	N16	W47	6855	10	3.8	15	SN					46	0.9	E
	URUM	07	0820	0827	0840	N17	W45	6855	10	3.9	20	SN			C		48	0.7	E
	LEAR	07	0827	0827	0832	N16	W47	6855	10	3.8	5	SF		3	E		21		
	ONDR	07	0827E	0827	0834	N17	W48	6855	10	3.7	7D	SB			P	0827	68	1.1	E
	KANZ	07	0827	0827	0835	N16	W48	6855	10	3.7	8	SF		2	C				
0148		07	08311	08312	0837	S12	W71	6850	10	2.0	6	SF					20		
	KANZ	07	0831	0831	0839	S12	W68	6850	10	2.2	8	SF		2	C				
	LEAR	07	0832	0833	0835	S12	W74	6850	10	1.8	3	SF		3	E		20		
0149	ONDR	07	0852	0857U	0911	S13	W90	6850	09	30.6	19				P	0857			AIT
0150	ONDR	07	0948E	0953U	1002	S13	W90	6850	09	30.6	14D				P	0953			AIT

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0151		07	10104	1015*	1036	N08	W24	6861	10	5.6	26	SN					84	1.2	EFKZ
	KAND	07	1010	1015	1035	N08	W24	6861	10	5.6	25	SB			P	1015	83	0.9	EZ
	ONDR	07	1013E	1014U	1030	N08	W23	6861	10	5.7	17D	SB			P	1014	137	1.5	EK
	SVTO	07	1013	1030	1039	N08	W24	6861	10	5.6	26	SF		3	E		31		F
	KANZ	07	1014	1018	1042	N08	W23	6861	10	5.7	28	SF		2	C				
0152		07	10162	10162	1021	S12	W84	6850	10	1.1	5	SF	C 9.9				40		AIT
	SVTO	07	1016	1016	1020	S13	W82	6850	10	1.2	4	SF	C 9.9	3	E		40		
	ONDR	07	1016	1019U	1022	S12	W90	6850	09	30.6	6				P	1019			AIT
	KANZ	07	1018	1018	1022	S11	W80	6850	10	1.4	4	SF		2	C				
0153	ONDR	07	1203	1205U	1214	S12	W90	6850	09	30.7	11				P	1205			AIT
0154		07	12511	12523	1313	N08	W24	6861	10	5.7	22	SF	C 2.8				75	1.2	EF
	RAMY	07	1251	1254	1319	N09	W24	6861	10	5.7	28	SF	C 2.8	3	E		47		F
	KANZ	07	1252	1252	1316	N08	W24	6861	10	5.7	24	SF		2	C				
	ONDR	07	1253E	1255	1305	N08	W24	6861	10	5.7	12D	SN			P	1255	103	1.2	E
0155	ONDR	07	1320	1323	1337U	S12	W90	6850	09	30.8	17U	3B			P	1323			ADIT
0156		07	1503*	15313	1558	N09	W26	6861	10	5.7	55	SN	C 8.9				87		EF
	HOLL	07	1503	1531	1558	N09	W25	6861	10	5.7	55	SN	C 8.9	4	E		87		E
	RAMY	07	1534	1534	1559	N09	W28	6861	10	5.5	25	SF		3	E		87		F
0157	HOLL	07	1626	1626	1636	S11	W84	6850	10	1.4	10	SF	C 2.0	3	E		36		
0158	HOLL	07	1727	1728	1809	N08	W27	6861	10	5.7	42	SF	C 2.1	3	E		32		F
0159	HOLL	07	1921	1921	1927	N08	W27	6861	10	5.8	6	SF		3	E		12		
0160		07	22023	22061	2221	S14	W80	6850	10	1.9	19	SN	C 5.2				52		E
	HOLL	07	2202	2206	2232	S13	W79	6850	10	1.9	30	SN	C 5.2	3	E		76		E
	PALE	07	2205	2207	2210	S14	W80	6850	10	1.9	5	SF		3	E		27		
0161	HOLL	07	2234	2235	2301	N09	W29	6861	10	5.8	27	SF		3	E		39		FH
0162	LEAR	08	0559	0600	0611	N07	W35	6861	10	5.6	12	SF		3	E		13		
0163		08	0606	06096	0624	N12	E29	6870	10	10.4	18	SN	C 3.4				72	1.5	E
	ABST	08	0603E	0609	0630	N13	E30	6870	10	10.5	27D	SN			P	0609	131	1.5	E
	LEAR	08	0606	0615	0618	N12	E28	6870	10	10.4	12	SF	C 3.4	3	E		12		
0164		08	06372	06384	0646	N08	W34	6861	10	5.7	9	SN					96	1.2	DEFG
	WATU	08	0637	0638	0643	N08	W34	6861	10	5.7	6	SF			C	0638	60	0.8	EG
	ABST	08	0638	0642	0650	N08	W35	6861	10	5.6	12	SN			C	0642	87	1.1	D
	ONDR	08	0639	0641U	0654U	N08	W34	6861	10	5.7	15U	SN			P	0641	140	1.7	EF
0165		08	0657	06581	0716	S13	W86	6850	10	1.8	19	SN					27		A
	HTPR	08	0645E	0659	0730	S13	W90	6850	10	1.5	45D	SN			C	0659	30		A
	LEAR	08	0657	0658	0702	S13	W82	6850	10	2.1	5	SF		3	E		24		
0166		08	0653*	0710*	0737	N09	W37	6861	10	5.5	44	SN					72	0.9	DEFG
	LEAR	08	0651E	0714	0804	N07	W36	6861	10	5.6	73D	SF		3	E		59		F
	URUM	08	0653	0710	0806	N08	W37	6861	10	5.5	73	SN			C		96	1.2	E
	ONDR	08	0702	0712	0727	N08	W37	6861	10	5.5	25	SN			P	0712	68	0.9	EF
	ABST	08	0708	0712	0718	N10	W38	6861	10	5.4	10	SN			C	0712	87	1.1	D
	HTPR	08	0709	0713	0720	N07	W40	6861	10	5.3	11	SF			C	0713	60	0.7	
	PEKG	08	0709	0715	0730	N08	W37	6861	10	5.5	21	SN			P	0715	84	1.1	D
	WATU	08	0711	0714	0716	N08	W38	6861	10	5.4	5	SF			C	0714	30	0.4	DG
	HTPR	08	0729	0733	0745	N10	W37	6861	10	5.5	16	SF			C	0733	40	0.5	
	ABST	08	0730	0732	0740	N10	W34	6861	10	5.7	10	SN			C	0732	131	1.6	E
	ONDR	08	0731	0733	0748	N10	W33	6861	10	5.8	17	SN			P	0733	68	0.8	EF
0167		08	0859*	0905*	0922	N08	W38	6861	10	5.5	23	SN					43	0.6	DEH
	HTPR	08	0859	0905	0925	N08	W38	6861	10	5.5	26	SF			C	0905	30	0.4	
	ONDR	08	0904	0907	0913	N08	W34	6861	10	5.8	9	SN			P	0907	48	0.7	E
	KHAR	08	0915E		0923	N10	W39	6861	10	5.4	8D	SF		2	P	0915			DH
	ONDR	08	0918	0920	0926	N07	W39	6861	10	5.5	8	SN			P	0920	51	0.7	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0168		08	0923	09233	0930	S10	E72	6871	10	13.8	7	1N					38	2.4	EF
	SVTO	08	0923	0923	0927	S09	E72	6871	10	13.8	4	SF		3	E		15		F
	ONDR	08	0923	0926	0934	S11	E73	6871	10	13.9	11	1N			P	0926	62	2.4	E
0169		08	0940*	0940*	0953	S11	W90	6850	10	1.6	13	SN							DHT
	KHAR	08	0940	0940	0946	S11	W90	6850	10	1.6	6	SF		2	V	0940			DHT
	KHAR	08	0952	0953	1000	S11	W90	6850	10	1.6	8	SN		2	V	0953			DHT
0170		08	0945	09462	0956	N10	W39	6861	10	5.5	11	SN					64	0.8	DE
	KHAR	08	0945	0946	0952	N10	W39	6861	10	5.5	7	SN		2	V	0946			D
	HTPR	08	0945	0948	1004	N13	W40	6861	10	5.4	19	SF			C	0948	50	0.7	
	ONDR	08	0947E	0948U	0953	N08	W38	6861	10	5.5	6D	SN			P	0948	79	1.0	E
0171	KHAR	08	1045	1047	1055	S11	W90	6850	10	1.7	10	SF		2	V	1047			DHT
0172		08	1249	1251	1306	S13	W89	6850	10	1.8	17	1F	C 3.5				64		A
	RAMY	08	1249	1251	1258	S14	W87	6850	10	1.9	9	SF	C 3.5	3	E		48		
	ONDR	08	1253E	1254U	1305D	S13	W90	6850	10	1.7	12D				P	1254			A
	HTPR	08	1258E		1315	S13	W90	6850	10	1.7	17D	1F			C	1258	80		A
0173	RAMY	08	1336	1345	1359	S09	E20	6869	10	10.1	23	SF		3	E		23		F
0174	HTPR	08	1413	1418	1425	N08	W43	6861	10	5.4	12	SF			C	1418	40	0.5	
0175	HTPR	08	1420	1431	1440	N13	W75	6855	10	2.9	20	SF			C	1431	40	1.0	E
0176		08	1512	1517	1537	N08	W40	6861	10	5.6	25	SN	C 9.0				40	0.8	F
	HTPR	08	1512	1517	1540	N07	W40	6861	10	5.6	28	SN			C	1517	60	0.8	
	HOLL	08	1521E	1521U	1534	N08	W41	6861	10	5.6	13D	SF	C 9.0	3	E		19		F
0177	HTPR	08	1521	1534	1540	S11	W90	6850	10	1.9	19	SN			C	1534	40		A
0178		08	1532	15391	1551D	S12	E70	6871	10	13.9	19D	SF					70		
	HTPR	08	1532	1539	1551D	S12	E70	6871	10	13.9	19D	SF			C	1539	50		
	HOLL	08	1532	1540	1543D	S12	E69	6871	10	13.8	11D	SF		3	E		89		
0179	HOLL	08	1602	1606	1609	N08	W41	6861	10	5.6	7	SF		3	E		16		F
0180	HOLL	08	1606	1607	1610	S22	W91	6853	10	1.7	4	SF		3	E		39		
0181	RAMY	08	1615	1619	1623	N08	W43	6861	10	5.4	8	SF		3	E		35		F
0182	HOLL	08	1652	1706	1759	N20	W68	6855	10	3.5	67	SF		3	E		71		
0183		08	2046	2047	2050	N18	W20	6867	10	7.3	4	SF					24		EF
	RAMY	08	2046	2047	2050	N17	W20	6867	10	7.3	4	SF		3	E		28		E
	HOLL	08	2046	2047	2051	N18	W20	6867	10	7.3	5	SF		3	E		21		FE
0184		08	2046	2049	2103	S14	E68	6871	10	14.0	17	SF					65		F
	RAMY	08	2046	2049	2103	S13	E67	6871	10	13.9	17	SF		3	E		55		F
	HOLL	08	2046	2049	2103	S14	E68	6871	10	14.0	17	SF		3	E		75		F
0185	HOLL	08	2200	2201	2210	N19	W17	6867	10	7.6	10	SF	C 2.4	3	E		21		EF
0186	HOLL	08	2319	2319	2328	N19	W18	6867	10	7.6	9	SF		3	E		14		F
0187		09	0111	01134	0128	N16	W23	6867	10	7.3	17	SN					61	1.0	D
	LEAR	09	0111	0113	0121	N17	W22	6867	10	7.4	10	SF		3	E		38		
	PEKG	09	0111	0117	0135	N16	W24	6867	10	7.2	24	SN			P	0117	84	1.0	D
0188		09	01471	01492	0204	N08	W44	6861	10	5.8	17	1N	C 5.2				116	1.2	DE
	PEKG	09	0147	0151	0158	N08	W44	6861	10	5.8	11	SN			P	0151	84	1.2	D
	LEAR	09	0148	0149	0211	N08	W43	6861	10	5.8	23	1N	C 5.2	3	E		147		E
0189		09	0212*	0257*	0326	N06	W48	6861	10	5.5	74	SF					65	1.1	
	LEAR	09	0212	0257	0339	N05	W46	6861	10	5.6	87	SF		3	E		60		
	WATU	09	0308	0310	0314	N07	W49	6861	10	5.5	6	SF			C	0310	70	1.1	

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0190		09	05141	0517	0530	N08	W50	6861	10	5.5	16	1N	C 7.5				134	2.6	F
	WATU	09	0514	0517	0526	N09	W50	6861	10	5.5	12	1N			C	0517	150	2.4	F
	TACH	09	0514	0517	0538	N08	W50	6861	10	5.5	24	1B		2	C	0517	184	2.9	F
	LEAR	09	0515	0517	0526	N08	W50	6861	10	5.5	11	SN	C 7.5	3	E		68		
0191		09	0526	05296	0554	S13	E63	6871	10	14.0	28	SN					58		F
	TACH	09	0526	0529	0600	S13	E64	6871	10	14.0	34	SN		2	C	0529	61		F
	LEAR	09	0526	0535	0548	S13	E62	6871	10	13.9	22	SF		3	E		55		
0192	SVTO	09	0549	0552	0556D	N07	W50	6861	10	5.5	7D	SF		1	E		15		F
0193		09	08094	08132	0858	S21	E73	6873	10	14.9	49	SF					86		DE
	LEAR	09	0809	0815	0904	S25	E68	6873	10	14.6	55	SF		3	E		67		
	KANZ	09	0813	0813	0845	S19	E71	6873	10	14.8	32	SF		2	C				
	ABST	09	0813	0815	0829D	S20	E75	6873	10	15.1	16D	1N			P	0815	105		E
	KHAR	09	0852E		0905	S20	E77	6873	10	15.2	13D	SF		2	V	0859			D
0194	KHAR	09	1146U	1147U	1152	N18	W30	6867	10	7.2	6U	SF		2	V	1147			D
0195	KHAR	09	1150	1151	1157	N18	W77	6855	10	3.6	7	SF		2	V	1151			E
		09	1201		1311	No Flare Patrol													
		09	1435		1450	No Flare Patrol													
		09	1553		1601	No Flare Patrol													
0196	HOLL	09	1814	1816	1820	S18	W03	6863	10	9.5	6	SF		3	E		15		
0197	HOLL	09	1816	1817	1819	N17	W74	6855	10	4.1	3	SF		3	E		13		
		09	1844		1850	No Flare Patrol													
0198	HOLL	09	2123	2127	2130	S25	E68	6873	10	15.1	7	SF	C 1.9	3	E		22		FH
0199	HOLL	09	2301	2311	2320	S13	W54	6876	10	5.9	19	SF		3	E		21		F
0200	LEAR	10	0141	0147	0203	S11	E48	6871	10	13.7	22	SF		3	E		35		
0201	LEAR	10	0543	0543	0554	S27	E63	6873	10	15.1	11	SF	C 3.0	3	E		34		
0202		10	05553	0557*	0641	S21	W12	6863	10	9.3	46	1N					140		FH
	LEAR	10	0555	0557	0632	S19	W13	6863	10	9.2	37	1F		3	E		116		F
	SVTO	10	0558	0609	0650	S23	W10	6863	10	9.5	52	1N		3	E		163		FH
0203		10	07156	07341	0750	N07	W63	6861	10	5.6	35	SF	C 3.6				106	3.1	EF
	LEAR	10	0715	0734	0758	N08	W65	6861	10	5.4	43	SF	C 3.6	3	E		74		F
	KANZ	10	0715	0735	0755	N07	W62	6861	10	5.6	40	SF		2	C				
	ONDR	10	0721	0729U	0738	N07	W63	6861	10	5.6	17	1N			P	0729	137	3.1	E
0204		10	1023*	10476	1106	S20	W63	6876	10	5.6	43	SF					87		F
	KANZ	10	1023	1047	1107	S20	W61	6876	10	5.8	44	SF		2	C				
	SVTO	10	1035	1053	1106	S20	W65	6876	10	5.5	31	SF		3	E		87		F
0205	KHAR	10	1120	1122	1130D	S17	W62	6876	10	5.8	10D	SF		2	V	1122			D
0206	KHAR	10	1125		1130D	S12	E46	6871	10	13.9	5D	SF		2	V	1127			D
0207	ONDR	10	1347	1353U	1422U	S14	W90		10	3.8	35U				P	1353			A
0208		10	15422	15441	1547	S22	E56	6873	10	14.9	5	SF	C 2.9				36		
	SVTO	10	1542	1544	1546	S20	E52	6873	10	14.6	4	SF		2	E		48		
	HOLL	10	1544	1545	1548	S25	E59	6873	10	15.2	4	SF	C 2.9	3	E		25		
0209		10	17501	17524	1837	S12	E40	6871	10	13.7	47	SF					24		F
	HOLL	10	1750	1752	1913	S11	E40	6871	10	13.7	83	SF		3	E		32		
	RAMY	10	1751	1756	1801	S12	E41	6871	10	13.8	10	SF		3	E		16		F
0210	HOLL	10	1831	1832	1841	N20	W42	6867	10	7.5	10	SF		3	E		26		
0211	HOLL	10	1939	1939	1952	S21	E53	6873	10	14.9	13	SF	C 2.1	3	E		21		F

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0212	HOLL	10	2119	2126	2144	N17	W46	6867	10	7.4	25	SF		3	E		25		F
0213	LEAR	11	0113	0117	0151	N19	W46	6867	10	7.5	38	SF		2	E		25		
0214	LEAR	11	0240	0241	0247	N09	W72	6861	10	5.7	7	SF		2	E		15		F
0215	ISTA	11	0808		0819	S14	E37	6871	10	14.1	11	SN			P				E
0216	ISTA	11	0816		0825	S15	W76	6876	10	5.6	9	SN			P				E
0217	SVTO	11	1154	1201	1212	N11	E57	6877	10	15.8	18	SF		3	E		27		F
0218	SVTO	11	1310	1321	1335	S11	E31	6871	10	13.9	25	SF		3	E		41		
0219	HOLL	11	1433	1433	1441	S12	E57	6873A	10	15.9	8	SF		3	E		20		F
0220	HOLL	11	1515	1516	1530	S12	E28	6871	10	13.7	15	SF		3	E		21		F
0221	HOLL	11	1621	1645	1731	S24	E35	6873	10	14.4	70	SF	C 2.0	3	E		22		F
0222	HOLL	11	1741	1747	1756	S21	E36	6873	10	14.5	15	SF		3	E		15		F
0223	HOLL	11	1757	1801	1819	S24	E38	6873	10	14.7	22	SF		3	E		23		
0224		11	20152	20181	2040	S24	E34	6873	10	14.5	25	SN	C 5.9				86		F
	HOLL	11	2015	2018	2046	S25	E34	6873	10	14.5	31	SB	C 5.9	3	E		94		
	PALE	11	2017	2019	2034	S24	E35	6873	10	14.5	17	SF		3	E		78		F
0225	LEAR	12	0125	0133	0148	S26	E39	6873	10	15.1	23	SF	C 1.7	3	E		19		F
0226	LEAR	12	0457	0503	0514	S27	E31	6873	10	14.6	17	SF	C 9.2	3	E		26		F
0227		12	0503	0505	0514	N07	W92	6861	10	5.3	11	SN					52		D
	TACH	12	0500E	0505	0516	N07	W88	6861	10	5.6	16D	SB		3	C	0505	31		D
	LEAR	12	0503	0505	0511	N07	W95	6861	10	5.1	8	SF		3	E		72		
0228	LEAR	12	0632	0705	0718	S26	E29	6873	10	14.5	46	SF	C 1.8	3	E		48		
0229		12	0745	07557	0815	N04	E26	6872	10	14.3	30	SF					23	0.3	
	LEAR	12	0745	0755	0805	N04	E29	6872	10	14.5	20	SF		3	E		16		
	HTPR	12	0759E	0802	0825	N05	E23	6872	10	14.0	26D	SF			C	0802	30	0.3	
0230	KHAR	12	1000	1006	1045	S23	E67	6878	10	17.6	45	1B		2	P	1007	220		EFHVWX
0231	KHAR	12	1027	1029	1050	N26	E90	6879	10	19.4	23	SN		2	P	1032	50		DH
0232	KHAR	12	1125	1127	1133U	N26	E90	6879	10	19.5	8U	SF		2	V	1127			DH
		12	1231		1324	No Flare Patrol													
		12	1449		1458	No Flare Patrol													
0233	HOLL	12	1838	1842	1847	S30	E28	6873	10	15.0	9	SF		3	E		12		F
0234	HOLL	12	1843	1844	1903	S17	E18	6871	10	14.1	20	SF		3	E		23		F
0235	HOLL	12	1927	1927	1937	S21	E61	6878	10	17.5	10	SF		3	E		21		
0236	LEAR	13	0044	0044	0054	S24	E25	6873	10	15.0	10	SF		3	E		17		F
0237		13	03411	03437	0417	S26	E20	6873	10	14.7	36	SF	C 3.7				48	0.7	DF
	WATU	13	0341	0343	0404	S26	E22	6873	10	14.9	23	SF			C	0343	50	0.7	D
	LEAR	13	0342	0350	0430	S27	E19	6873	10	14.6	48	SF	C 3.7	3	E		45		F
0238		13	06561	06581	0712	N22	E88	6879	10	20.0	16	1N	C 7.3				155		ADE
	ABST	13	0656	0658	0705D	N22	E90	6879	10	20.2	9D	1N			C	0658	131		AD
	LEAR	13	0657	0659	0712	N21	E86	6879	10	19.9	15	1N	C 7.3	3	E		179		E

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0239		13	08451	08471	0856	N17	E23	6875	10	15.1	11	SN					58	1.0	D
	ABST	13	0845	0847	0856	N16	E24	6875	10	15.2	11	SN			C	0847	87	1.0	D
	ISTA	13	0846		0857	N18	E22	6875	10	15.0	11	SN			P				D
	LEAR	13	0846	0848	0856	N17	E22	6875	10	15.0	10	SF		3	E		29		
0240	KANZ	13	1218E	1222	1226D	N17	E21	6875	10	15.1	8D	SF		2	C				
0241	KANZ	13	1234E	1238	1252	S21	E48	6878	10	17.2	18D	SF		2	C				
		13	1311		1325	No Flare Patrol													
		13	1353		1411	No Flare Patrol													
0242	HOLL	13	1525	1526	1532	S26	E12	6873	10	14.6	7	SF		4	E		20		
0243	HOLL	13	1945	1947	1952	S22	E44	6878	10	17.2	7	SF		3	E		41		F
0244		13	2010*	2013	2112	N23	E78	6879	10	19.8	62	1N	M 1.1				72		EF
	HOLL	13	2010	2013	2112	N23	E79	6879	10	19.9	62	1N	M 1.1	3	E		130		FE
	PALE	13	2029	2030U	2054D	N23	E77	6879	10	19.8	25D	SF		2	E		13		
0245	HOLL	13	2112	2113	2127	N22	E80	6879	10	20.0	15	SF	M 1.6	3	E		22		
0246	HOLL	13	2122	2124	2139	S21	E41	6878	10	17.0	17	SF		3	E		52		
0247	HOLL	13	2242	2244	2320	S16	E08	6873	10	14.5	38	SF		3	E		30		F
0248	LEAR	14	0125	0127	0133	N15	E15	6875	10	15.2	8	SF		3	E		29		
0249	LEAR	14	0247	0248	0255	N21	E76	6879	10	19.9	8	SF	C 3.1	3	E		37		
0250	LEAR	14	0302	0306	0319	N08	E10	6877A	10	14.9	17	SF		3	E		21		F
0251	LEAR	14	0318	0320	0356	N21	E76	6879	10	20.0	38	SF	M 1.3	3	E		44		F
0252	LEAR	14	0402	0403	0415	N21	E77	6879	10	20.1	13	SF	C 8.9	3	E		28		F
0253	TACH	14	0547	0551	0606	N05	W22	6870C	10	12.6	19	SN		3	C	0551	41	0.4	G
0254		14	0631*	0649*	0726	N08	E08	6877A	10	14.9	55	SN					99	1.8	FU
	TACH	14	0631	0649	0731	N09	E08	6877A	10	14.9	60	SN		3	C	0649	173	1.8	U
	LEAR	14	0651	0706	0721	N08	E08	6877A	10	14.9	30	SF		3	E		25		F
0255		14	0734*	0757	0814	S23	E43	6878	10	17.6	40	SN	C 8.8				53	0.9	DF
	LEAR	14	0734	0757	0824	S25	E42	6878	10	17.6	50	SF	C 8.8	3	E		53		F
	TACH	14	0755	0757	0808	S21	E45	6878	10	17.8	13	SB		3	C	0757	53	0.9	D
	KANZ	14	0757	0757	0809	S24	E42	6878	10	17.6	12	SN		2	C				
0256		14	09097	09136	0940	N23	E76	6879	10	20.2	31	SF	C 6.7				36		F
	KANZ	14	0909	0913	0949	N23	E80	6879	10	20.5	40	SF		2	C				
	LEAR	14	0916	0919	0932	N23	E71	6879	10	19.8	16	SF	C 6.7	2	E		36		F
0257	ONDR	14	1004E	1014U	1031U	N24	E73	6879	10	20.0	27U	1N			P	1014	92	3.2	E
0258	KANZ	14	1111	1115	1119D	N22	E77	6879	10	20.4	8D	SF		2	C				
0259	ONDR	14	1205	1214	1257U	S24	E00	6873	10	14.5	52U	SN			P	1214	123	1.5	EFKZ
0260	ONDR	14	1217	1219	1229	S23	E39	6878	10	17.5	12	1N			P	1219	198	3.1	E
0261		14	1237	1238	1328D	N24	E72	6879	10	20.1	51D	1B					148	1.5	EFHK
	RAMY	14	1236E	1238U	1328D	N23	E70	6879	10	19.9	52D	2B		2	E		251		FH
	ONDR	14	1237	1238	1258U	N25	E73	6879	10	20.2	21U	SB			P	1238	44	1.5	KE
0262	HOLL	14	1409E	1449	1513	N21	E69	6879	10	19.9	64D	1B	C 6.1	3	E		139		H
0263		14	1431	1502	1524	S24	E38	6878	10	17.5	53	SF					69		F
	HOLL	14	1431	1502	1524	S25	E37	6878	10	17.5	53	SF		3	E		85		F
	RAMY	14	1450E	1451U	1535D	S22	E40	6878	10	17.7	45D	SF		3	E		53		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0264		14	1554	1600	1624	N21	E71	6879	10	20.1	30	SN					32		F
	HOLL	14	1554	1600	1607	N21	E72	6879	10	20.2	13	SN		3	E		42		
	RAMY	14	1557E	1559U	1641	N21	E70	6879	10	20.0	44D	SF		3	E		23		F
0265	HOLL	14	1626	1635	1650	N08	E10	6877	10	15.4	24	SF		3	E		71		
0266		14	17313	17372	1846	S24	E36	6878	10	17.5	75	3B	M 6.6				601		EFH
	HOLL	14	1731	1737	1842	S24	E37	6878	10	17.6	71	2B		3	E		409		FH
	RAMY	14	1734	1739	1849	S24	E34	6878	10	17.3	75	3N	M 6.6	3	E		793		FE
0267		14	17342	17373	1819	N22	E66	6879	10	19.8	45	2B					211		EF
	RAMY	14	1734	1737	1740D	N23	E65	6879	10	19.7	6D	2B		3	E		256		
	HOLL	14	1736	1740	1819	N22	E68	6879	10	19.9	43	1N		3	E		166		FE
0268	HOLL	14	1934	1936	1941	N22	E65	6879	10	19.8	7	SF		3	E		26		
0269		14	2007	20081	2012	N22	E69	6879	10	20.1	5	SN					46		EF
	RAMY	14	2006E	2008	2011	N22	E69	6879	10	20.1	5D	SF		3	E		43		
	HOLL	14	2007	2009	2012	N22	E69	6879	10	20.1	5	SN		3	E		49		FE
0270		14	2012	2040*	2240	S13	W13	6871	10	13.9	148	1N					146		FKU
	HOLL	14	2012	2040	2240	S13	W13	6871	10	13.9	148	1N			E		187		K
	HOLL	14	2012	2124	2240	S13	W13	6871	10	13.9	148	1N		3	E		104		UF
0271	HOLL	14	2112	2119	2123	N22	E66	6879	10	19.9	11	SF	C 5.2	3	E		15		F
0272	HOLL	14	2145	2150	2200	N09	W01	6877A	10	14.8	15	SF		3	E		28		F
0273	HOLL	14	2229	2233	2237	N21	E66	6879	10	20.0	8	SF		3	E		18		F
0274	HOLL	14	2236	2253	2327D	N09	E01	6877A	10	15.0	51D	SF		3	E		60		F
0275		15	0008	00091	0046	N08	W03	6872	10	14.8	38	SF					86	1.5	EFHI
	LEAR	15	0008	0009	0031	N08	W02	6872	10	14.8	23	SF		3	E		30		F
	VORO	15	0008	0010	0102	N09	W04	6872	10	14.7	54	SF		1	C	0010	143	1.5	EIH
0276		15	0010*	0044*	0116	N23	E64	6879	10	19.9	66	SF	C 2.9				48	1.8	DFJ
	LEAR	15	0010	0044	0107	N21	E64	6879	10	19.9	57	SF		3	E		38		F
	VORO	15	0107	0109	0117	N24	E63	6879	10	19.9	10	SF		1	C	0109	81	1.8	DJ
	LEAR	15	0108	0112	0124	N23	E65	6879	10	20.0	16	SF	C 2.9	3	E		24		
0277		15	0117*	0122*	0153	S22	E28	6878	10	17.2	36	SN	M 1.3				140	1.8	EFIJK
	MITK	15	0117	0130	0152	S24	E33	6878	10	17.6	35	1N			C	0130	220	3.0	E
	VORO	15	0119	0122	0150	S23	E32	6878	10	17.5	31	SF		1	C	0130	116	1.6	EIJK
	LEAR	15	0119	0130	0156	S20	E22	6878	10	16.7	37	1N	M 1.3	3	E		208		FE
	WATU	15	0128	0144	0152	S22	E28	6878	10	17.2	24	SN			C	0144	100	1.3	E
	VORO	15	0130	0131	0157	S19	E22	6878	10	16.7	27	SF		1	C	0146	108	1.3	EIJK
	PALE	15	0131E	0131U	0200D	S21	E28	6878	10	17.2	29D	SF		2	E		88		F
0278	LEAR	15	0247	0248	0251	N21	E65	6879	10	20.1	4	SF	C 2.7	3	E		18		
0279		15	03111	03143	0329	N22	E61	6879	10	19.8	18	SF	C 2.3				48	1.6	EFJ
	VORO	15	0311	0314	0328	N22	E62	6879	10	19.9	17	SF		1	C	0314	72	1.6	EJ
	LEAR	15	0312	0317	0330	N23	E60	6879	10	19.7	18	SF	C 2.3	3	E		24		F
0280		15	0611*	0613*	0636	S25	W10	6873	10	14.5	25	SN	C 6.8				144	2.1	BCEF
	LEAR	15	0611	0613	0640	S26	W10	6873	10	14.5	29	1N	C 6.8	3	E		125		F
	TACH	15	0611	0614	0635	S23	W10	6873	10	14.5	24	1B		3	C	0614	306	3.6	F
	WATU	15	0612	0613	0633	S25	W09	6873	10	14.6	21	SB			C	0613	160	1.9	CF
	URUM	15	0613	0617	0638	S25	W11	6873	10	14.4	25	SN			C		113	1.4	E
	SVTO	15	0620E	0624U	0630	S25	W10	6873	10	14.5	10D	SF		2	E		12		F
	ONDR	15	0628E	0628U	0630	S26	W09	6873	10	14.6	2D	SN			P	0628	85	1.1	BEF
	PEKG	15	0628	0632	0650	S24	W12	6873	10	14.3	22	1B			P	0632	210	2.5	E
0281		15	0613	0619	0628	S19	E21	6878	10	16.9	15	SF					20		F
	LEAR	15	0613	0619	0629	S20	E20	6878	10	16.8	16	SF		3	E		28		F
	SVTO	15	0620E	0624U	0626	S18	E22	6878	10	16.9	6D	SF		2	E		11		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0282		15	0659*	0701*	0738	S24	E30	6878	10	17.6	39	1N	M 1.4				307	4.6	DEFIUZ
	MITK	15	0659	0703	0706	S25	E30	6878	10	17.6	7	2N			P	0703	490	6.9	
	WATU	15	0700	0701	0728	S23	E29	6878	10	17.5	28	SN			C	0701	110	1.5	E
	ABST	15	0700	0702	0740	S24	E30	6878	10	17.6	40	1N			C	0702	174	2.3	E
	LEAR	15	0700	0702	0802	S25	E30	6878	10	17.6	62	1N		3	E		175		
	SVTO	15	0700	0704	0810D	S23	E30	6878	10	17.6	70D	1N	M 1.4	4	E		237		F
	TACH	15	0701E		0735	S23	E28	6878	10	17.4	34D	2B		3	C	0701	459	6.0	U
	ONDR	15	0705E	0708	0727	S23	E31	6878	10	17.7	22D	1B			P	0708	215	3.0	EZ
	ATHN	15	0707E	0707U	0717D	S25	E27	6878	10	17.4	10D	1N		2	V	0717	318	4.3	
	PEKG	15	0720	0724	0740	S24	E30	6878	10	17.6	20	2B			P	0725	589	8.1	D
	ISTA	15	0734E		0803	S24	E33	6878	10	17.9	29D	2N			P				I
0283		15	09114	09173	0940	S23	W12	6873	10	14.4	29	1B					173	2.1	EFZ
	ONDR	15	0911	0919	0935	S24	W12	6873	10	14.4	24	1B			P	0919	219	2.7	EF
	ABST	15	0914	0917	0940	S23	W14	6873	10	14.3	26	1N			C	0917	174	2.2	E
	KAND	15	0915	0920	0945	S23	W11	6873	10	14.5	30	SB			P	0920	125	1.5	EZ
0284	KAND	15	1036	1037	1045	S23	W11	6873	10	14.6	9	SF			P	1037	62	0.7	E
0285		15	11169	11219	1144	S22	E26	6878	10	17.5	28	SN	C 4.0				69	1.2	EFKZ
	RAMY	15	1116	1121	1138D	S21	E22	6878	10	17.1	22D	SF		1	E		63		F
	ONDR	15	1121	1124U	1143	S23	E28	6878	10	17.6	22	SN			P	1124	51	0.7	EK
	KAND	15	1125	1130	1146	S23	E27	6878	10	17.5	21	SB			P	1130	125	1.6	EZ
	SVTO	15	1127E	1129U	1143	S23	E28	6878	10	17.6	16D	SN	C 4.0	2	E		37		F
0286		15	1412	14123	1418	N24	E58	6879	10	20.1	6	SN					18	0.4	DEF
	HOLL	15	1412	1412	1416	N23	E59	6879	10	20.1	4	SF		3	E		16		FE
	HTPR	15	1412	1415	1421	N24	E58	6879	10	20.1	9	SN			C	1415	20	0.4	D
0287		15	14502	1454	1511	S24	E26	6878	10	17.6	21	SN	C 2.1				43	0.7	E
	HTPR	15	1450	1454	1519D	S25	E28	6878	10	17.8	29D	SN			C	1454	50	0.7	
	HOLL	15	1452	1454	1511	S24	E25	6878	10	17.5	19	SF	C 2.1	3	E		36		E
0288		15	1545	1548	1607	S24	E24	6878	10	17.5	22	1N	C 6.3				86		EF
	HOLL	15	1545	1548	1605	S24	E24	6878	10	17.5	20	1N	C 6.3	4	E		101		FE
	RAMY	15	1550E	1550U	1609	S23	E24	6878	10	17.5	19D	SN		3	E		72		FE
0289		15	1547	1553	1654	S25	W14	6873	10	14.6	67	1N					120		EF
	HOLL	15	1547	1553	1648	S24	W14	6873	10	14.6	61	1N		3	E		118		FE
	RAMY	15	1550E	1555U	1700	S26	W13	6873	10	14.6	70D	1N		3	E		121		FE
0290		15	1909	1913U	1923D	N22	E54	6879	10	19.9	14D	SF					28		F
	RAMY	15	1909	1913U	1923D	N22	E53	6879	10	19.9	14D	SF		3	E		27		F
	HOLL	15	1914E	1915U	1920D	N21	E54	6879	10	19.9	6D	SF		3	E		30		F
0291	HOLL	15	2236	2241	2247	S20	E11	6878	10	16.8	11	SF		3	E		11		F
0292	LEAR	16	0432	0457	0512	S24	W23	6873	10	14.4	40	SF	C 3.4	3	E		33		
0293		16	0745	07481	0802	S26	W24	6873	10	14.4	17	SF					54		F
	LEAR	16	0745	0748	0803	S24	W27	6873	10	14.2	18	SF		3	E		54		F
	KANZ	16	0745	0749	0801	S27	W22	6873	10	14.6	16	SF		2	C				
0294		16	0846*	08547	0928	N08	W18	6877	10	15.0	42	SF					98	1.8	EFU
	HTPR	16	0846	0858	0945	N09	W18	6877	10	15.0	59	SF			C	0858	120	1.3	U
	KANZ	16	0850	0854	0923	N07	W17	6877	10	15.1	33	SF		2	C				
	LEAR	16	0850	0859	0916	N08	W19	6877	10	14.9	26	SF		3	E		27		F
	ONDR	16	0855	0901	0906U	N08	W18	6877	10	15.0	11U	1N			P	0901	205	2.2	E
	SVTO	16	0856	0858U	0926	N10	W20	6877	10	14.9	30	SF		2	E		41		F
0295	HTPR	16	1049	1053	1105	S29	W21	6873	10	14.8	16	SF			C	1053	60	0.8	
0296		16	1109	1113*	1131	N22	E47	6879	10	20.1	22	SF					72	1.6	EF
	KANZ	16	1109	1113	1134	N20	E44	6879	10	19.8	25	SF		2	C				
	HTPR	16	1109	1113	1145	N22	E48	6879	10	20.1	36	SF			C	1113	110	1.7	
	SVTO	16	1111E	1117	1120	N22	E46	6879	10	20.0	9D	SF		2	E		41		F
	RAMY	16	1111E	1131	1134	N21	E51	6879	10	20.4	23D	SF		2	E		41		F
	ONDR	16	1115E	1115U	1120	N23	E47	6879	10	20.1	5D	SN			P	1115	96	1.5	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0297	SVTO	16	1156	1206	1211	S24	W24	6873	10	14.6	15	SF		3	E		36		
0298	SVTO	16	1156	1208	1212	N22	E46	6879	10	20.0	16	SF		3	E		17		
0299		16	12145	12193	1246	S26	W22	6873	10	14.8	32	SF	C 1.6				44	0.7	F
	SVTO	16	1214	1219	1232	S26	W26	6873	10	14.5	18	SF		3	E		51		F
	HTPR	16	1217	1220	1300	S27	W19	6873	10	15.0	43	SF			C	1220	50	0.7	
	RAMY	16	1219	1222	1231	S26	W25	6873	10	14.6	12	SF	C 1.6	4	E		31		F
	KANZ	16	1223E	1227U	1259	S27	W20	6873	10	14.9	36D	SF		2	C				
0300		16	1243*	1250*	1319	N22	E46	6879	10	20.1	36	SF	C 1.3				36	0.8	F
	HTPR	16	1243	1250	1327	N21	E48	6879	10	20.2	44	SF			C	1250	50	0.8	
	KANZ	16	1251	1251	1311	N22	E47	6879	10	20.1	20	SF		2	C				
	SVTO	16	1306	1313	1317	N22	E45	6879	10	20.0	11	SF		3	E		20		
	RAMY	16	1309	1311	1320	N21	E46	6879	10	20.1	11	SF	C 1.3	4	E		37		F
0301		16	1644	1652	1718	S25	W28	6873	10	14.5	34	2N	C 4.6				277		EF
	HOLL	16	1644	1652	1719	S26	W29	6873	10	14.4	35	2N	C 4.6	4	E		400		FE
	RAMY	16	1652E	1653U	1718	S24	W27	6873	10	14.6	26D	1N		2	E		154		F
0302	HOLL	16	1811	1811	1815	N22	E45	6879	10	20.2	4	SF		3	E		17		
0303	HOLL	16	1828	1834	1842	N22	E45	6879	10	20.2	14	SF		3	E		27		
0304	HOLL	16	2040	2049	2106	S26	W29	6873	10	14.6	26	SF	C 1.4	4	E		43		F
0305	HOLL	16	2135	2138	2144	S24	W34	6873	10	14.3	9	SF		4	E		28		F
0306	HOLL	16	2148	2150	2202	N20	E39	6879	10	19.9	14	SF		4	E		22		F
0307	HOLL	16	2201	2204	2212	S26	W30	6873	10	14.6	11	SF		3	E		22		
0308	HOLL	16	2313	2314	2321	N21	E39	6879	10	19.9	8	SF		3	E		13		F
0309	LEAR	17	0104	0110	0146	S27	W33	6873	10	14.5	42	SF		3	E		57		F
0310	LEAR	17	0116	0117	0126	N19	E36	6879	10	19.8	10	SF	C 1.4	3	E		33		
0311	LEAR	17	0216	0219	0239	S26	W34	6873	10	14.4	23	SF		3	E		48		
0312	LEAR	17	0321	0322	0342	S26	W34	6873	10	14.5	21	SF	C 1.1	3	E		34		
0313		17	04372	04402	0453	S26	W36	6873	10	14.4	16	SF	C 1.7				145	2.6	DEF
	PEKG	17	0437	0440	0456	S25	W37	6873	10	14.3	19	1F			P	0440	210	3.2	D
	LEAR	17	0438	0442	0501	S26	W35	6873	10	14.5	23	SF	C 1.7	3	E		95		F
	WATU	17	0439	0442	0443	S27	W35	6873	10	14.5	4	SF			C	0442	130	2.0	E
0314	SVTO	17	1128	1155	1216	S24	W37	6873	10	14.6	48	SF	C 1.5	3	E		31		F
0315		17	12381	1242*	1346	S27	W38	6873	10	14.6	68	SF					26		F
	RAMY	17	1238	1242	1346	S27	W37	6873	10	14.6	68	SF		3	E		27		F
	SVTO	17	1239	1304	1317D	S27	W38	6873	10	14.6	38D	SF		3	E		24		F
0316	SVTO	17	1251	1254	1303	N21	E30	6879	10	19.8	12	SF		3	E		23		
0317	HOLL	17	1356E	1358U	1408	S19	W41	6873	10	14.4	12D	SF		2	E		19		F
0318		17	15235	1533*	1628	N05	W43	6872	10	14.4	65	SF	C 1.8				58		FH
	HOLL	17	1523	1533	1630	N05	W43	6872	10	14.4	67	SF	C 1.8	3	E		82		F
	RAMY	17	1528	1543	1625	N05	W43	6872	10	14.4	57	SF		3	E		33		FH
0319	HOLL	17	1649	1649	1702	S24	W01	6878	10	17.6	13	SF	C 1.0	3	E		21		
0320	HOLL	17	1845	1846	1900	N23	E30	6879	10	20.1	15	SF		3	E		11		
0321	HOLL	17	1930	1931	2000	S26	W41	6873	10	14.6	30	SF	C 1.6	3	E		28		F
0322	HOLL	17	2111	2120	2138	N23	E28	6879	10	20.0	27	SF		3	E		24		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0323		18	01131	01142	0126	S25	W46	6873	10	14.5	13	1N	C 2.2				140	2.6	EFI
	VORO	18	0113	0114	0126	S25	W46	6873	10	14.5	13	SF		1	C	0114	116	2.0	EI
	LEAR	18	0114	0114	0132	S23	W47	6873	10	14.4	18	1F	C 2.2	3	E		116		F
	WATU	18	0114	0116	0121	S26	W43	6873	10	14.7	7	1N			C	0116	120	2.1	F
	PEKG	18	0116E	0116	0125	S25	W46	6873	10	14.5	9D	1B			P	0116	210	3.6	E
0324	LEAR	18	0552	0558	0630	S19	W46	6873	10	14.7	38	SF		3	E		88		
0325	HOLL	18	1731	1733	1742	N21	E22	6879	10	20.4	11	SF		4	E		15		H
0326	HOLL	18	2013	2014	2024	N21	E20	6879	10	20.4	11	SF	B 7.0	3	E		42		F
0327	HOLL	18	2030	2034	2049	S26	W56	6873	10	14.5	19	SF	B 8.9	3	E		58		F
0328	HOLL	18	2218	2219	2225	N00	W51	6874	10	15.1	7	SF		3	E		18		F
0329		20	11342	11362	1151	S12	W17	6884	10	19.2	17	SF	C 1.4				18		F
	SVTO	20	1134	1136	1146	S13	W17	6884	10	19.2	12	SF	C 1.4	3	E		18		
	RAMY	20	1136	1138	1156	S11	W17	6884	10	19.2	20	SF	C 1.4	2	E		17		F
0330	HOLL	20	1429E	1442U	1453D	S12	W18	6884	10	19.2	24D	SF		2	E		20		F
0331		20	1531*	1543*	1618	S12	W19	6884	10	19.2	47	SF					17		F
	HOLL	20	1531	1543	1551	S12	W19	6884	10	19.2	20	SF		3	E		26		F
	RAMY	20	1539	1542U	1642	S11	W20	6884	10	19.1	63	SF		3	E		13		F
	HOLL	20	1558	1610	1621	S12	W19	6884	10	19.2	23	SF		3	E		13		F
0332		20	1608	1614	1651	N22	W08	6879	10	20.0	43	SF					38		F
	HOLL	20	1608	1614	1700	N22	W08	6879	10	20.0	52	SF		3	E		38		F
	RAMY	20	1620E	1621U	1642	N23	W09	6879	10	20.0	22D	SF		3	E		37		F
0333	HOLL	20	1714	1714	1723	S25	W42	6878	10	17.5	9	SF		3	E		24		
0334		21	00561	00599	0122	S13	W25	6884	10	19.1	26	SN	C 6.7				141	1.8	DEJ
	WATU	21	0056	0059	0120	S11	W26	6884	10	19.1	24	SB			C	0059	60	0.7	E
	LEAR	21	0057	0059	0122	S13	W24	6884	10	19.2	25	SN	C 6.7	3	E		91		
	VORO	21	0057	0059	0128	S14	W25	6884	10	19.1	31	SN		2	C	0059	152	1.8	EJ
	MITK	21	0057	0100	0117	S12	W24	6884	10	19.2	20	SN			C	0100	150	1.8	D
	PEKG	21	0108E	0108	0123	S13	W25	6884	10	19.2	15D	1N			P	0108	252	3.0	E
0335		21	06292	06321	0657	N23	W16	6879	10	20.0	28	SF	C 2.1				158	2.2	EF
	ABST	21	0629	0632	0710	N23	W15	6879	10	20.1	41	SN			C	0632	131	1.5	E
	MITK	21	0629	0633	0658D	N23	W17	6879	10	20.0	29D	1F			C	0633	360	4.1	E
	WATU	21	0630	0633	0641	N23	W17	6879	10	20.0	11	SF			C	0633	90	1.0	E
	LEAR	21	0631	0632	0700	N22	W16	6879	10	20.0	29	SF	C 2.1	3	E		49		F
0336	ABST	21	0732	0733	0741	N09	E38	6886	10	24.2	9	SN			C	0733	87	1.1	D
0337		21	0914	0922	1108D	N28	E52		10	25.4	114D	SF					74		F
	KANZ	21	0914	0922	0943D	N26	E49		10	25.2	29D	SF		2	C				
	SVTO	21	0934E	0946U	1108D	N30	E56		10	25.8	94D	SF		2	E		74		F
		21	1235		1334	No Flare Patrol													
0338	HOLL	21	1903E	1916	1951	N22	W23	6879	10	20.0	48D	SF	C 3.4	3	E		36		F
0339	HOLL	21	2110	2112	2118	S14	E89	6891	10	28.6	8	SF	C 2.9	3	E		45		
		21	2155		2207	No Flare Patrol													
		21	2216		2300	No Flare Patrol													
		21	2304		2400	No Flare Patrol													
		22	0000		0018	No Flare Patrol													
0340		22	00138	00246	0042	N22	W28	6879	10	19.8	29	SF					45	0.6	
	LEAR	22	0013	0030	0046	N21	W27	6879	10	19.9	33	SF		3	E		40		
	WATU	22	0021	0024	0037	N22	W30	6879	10	19.7	16	SF			C	0024	50	0.6	

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0341		22	0627*	0634*	0713	S10	E79	6891	10	28.2	46	1F	M 1.2				112		EF
	LEAR	22	0627	0636	0739	S11	E85	6891	10	28.7	72	1F	M 1.2	3	E		136		F
	ABST	22	0632	0634	0647	S09	E73	6891	10	27.7	15	1F			C	0634	87		E
	ABST	22	0702	0702	0707D	S10	E78	6891	10	28.1	5D	1F			C	0702	114		E
0342	HTPR	22	1141	1145	1155	N10	E20	6886	10	24.0	14	SF			C	1145	50	0.5	
0343		22	1312*	1325	1336D	S21	E80	6892	10	28.7	24D	SN					10		D
	HTPR	22	1312		1326D	S22	E80	6892	10	28.7	14D	SN			C	1314	10		D
	KANZ	22	1325	1325	1336D	S20	E79	6892	10	28.6	11D	SF		2	C				
		22	1411		1432	No Flare Patrol													
		22	1806		1830	No Flare Patrol													
0344	HOLL	22	1828E	1845	2009	S09	E69	6891	10	27.9	101D	1N	M 1.9	3	E		112		
0345	HOLL	22	1853	1857	1927	S24	E74	6892	10	28.5	34	SF		3	E		92		
0346	HOLL	22	1959	2002	2014	S13	W46	6884	10	19.4	15	SF		3	E		25		
		22	2036		2041	No Flare Patrol													
		22	2055		2107	No Flare Patrol													
0347	HOLL	22	2259	2300U	2325	S16	W45	6884	10	19.5	26	SF	C 2.8	3	E		37		
0348	LEAR	23	0053	0105	0136	N19	E60	6888	10	27.6	43	SF	C 5.0	3	E		23		
0349	LEAR	23	0224	0225	0234	S16	W46	6884	10	19.6	10	SF		3	E		26		
0350	LEAR	23	0610	0619	0626	S17	E70	6892	10	28.6	16	SF	C 4.3	3	E		52		F
0351		23	0641	06432	0705	N22	W46	6879	10	19.7	24	SF					77	1.4	EF
	ABST	23	0641	0645	0701	N23	W47	6879	10	19.6	20	SF			C	0645	87	1.4	E
	LEAR	23	0643E	0643	0709	N22	W45	6879	10	19.8	26D	SF		3	E		67		F
0352		23	0726*	0744	0747	S11	E70	6891	10	28.6	21	SF	C 3.3				72		DF
	LEAR	23	0726	0744	0747	S13	E70	6891	10	28.6	21	SF	C 3.3	3	E		84		F
	ABST	23	0744	0744	0746D	S09	E70	6891	10	28.6	2D	SF			C	0744	61		D
0353	HTPR	23	0913	0922	0927D	S10	E75	6892B	10	29.0	14D	SN			C	0922	20		E
0354	HTPR	23	1030	1045	1110	S18	E63	6892	10	28.2	40	1N			C	1045	160		F
0355	HTPR	23	1340	1345	1355	S15	W60	6884	10	19.0	15	SF			C	1345	80	1.6	
0356		23	1417	1420	1430	S10	W60	6884	10	19.1	13	SF					58	1.8	E
	HTPR	23	1417	1420	1430	S10	W63	6884	10	18.9	13	SF			C	1420	90	1.8	E
	HOLL	23	1418E	1419U	1427D	S11	W58	6884	10	19.2	9D	SF		2	E		26		
0357	HTPR	23	1513	1527	1540	S13	E58	6891	10	28.0	27	SN			C	1520	90		
		23	2056		2140	No Flare Patrol													
		23	2148		2151	No Flare Patrol													
		23	2158		2204	No Flare Patrol													
		23	2212		2216	No Flare Patrol													
0358	PALE	24	0003	0007	0018	S07	E53	6898	10	28.0	15	SF		3	E		47		F
0359		24	0046	0049*	0120	S14	E61	6891	10	28.6	34	1N	M 1.9				160	3.2	EF
	PALE	24	0038E	0100U	0137	S12	E61	6891	10	28.6	59D	1N	M 1.9	3	E		189		F
	WATU	24	0046	0049	0103	S16	E60	6891	10	28.6	17	SN			C	0049	80	1.8	
	PEKG	24	0048E	0103	0120	S15	E61	6891	10	28.6	32D	1N			C	0103	210	4.6	E
0360	LEAR	24	0121	0128	0139	S20	E62	6892	10	28.8	18	SF	M 1.4	3	E		26		
0361		24	02371	0238*	0310	S14	E58	6891	10	28.5	33	2B					330	6.3	CEF
	WATU	24	0237	0240	0256	S15	E60	6891	10	28.6	19	1B			C	0240	120	2.7	C
	LEAR	24	0238E	0238	0316	S13	E56	6891	10	28.3	38D	2B		3	E		461		FE
	PEKG	24	0238	0240	0313	S15	E60	6891	10	28.6	35	3B			P	0240	589	13.0	E
	MITK	24	0248E	0249	0314	S14	E58	6891	10	28.5	26D	1N			P	0249	150	3.3	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0362	WATU	24	0317	0317	0327	N10	E03	6886	10	24.4	10	SF			C	0317	20	0.2	E
0363	LEAR	24	0432	0433	0454	N22	W56	6879	10	19.9	22	SF		3	E		46		F
0364		24	05291	05321	0537	N10	W01	6886	10	24.1	8	SN	C 4.8				81	0.8	EF
	PEKG	24	0529	0532	0536	N10	W03	6886	10	24.0	7	SB			P	0532	126	1.3	E
	WATU	24	0530	0533	0534	N10	E03	6886	10	24.4	4	SF			C	0533	20	0.2	
	LEAR	24	0530	0533	0541	N10	W04	6886	10	23.9	11	SF	C 4.8	3	E		97		F
0365		24	0721*	0731*	0738	S11	E56	6891	10	28.5	17	SF	M 1.2				108		F
	SVTO	24	0628E	0633U	0742	S12	E56	6891	10	28.5	74D	1F	M 1.2	3	E		159		
	LEAR	24	0633E	0633U	0710	S09	E56	6891	10	28.5	37D	1F		3	E		133		F
	LEAR	24	0721	0731	0746	S13	E55	6891	10	28.4	25	SF		3	E		33		F
	KANZ	24	0732E	0732U	0744	S14	E57	6891	10	28.6	12D	SF		2	C				
	KANZ	24	0744	0744	0748	S09	E58	6891	10	28.7	4	SF		2	C				
0366		24	0640	0713*	0732	N18	E84	6893	10	30.7	52	SF	C 6.9				38		K
	SVTO	24	0640	0713	0732	N18	E84	6893	10	30.7	52	SF			E		53		K
	SVTO	24	0640	0724	0732	N18	E84	6893	10	30.7	52	SF	C 6.9	3	E		24		
0367	WATU	24	0641	0645	0647	N12	W49		10	20.6	6	SF			C	0645	50	0.8	
0368		24	0824*	0832*	0856	S12	E54	6891	10	28.4	32	SF	C 5.8				73	1.8	EF
	KANZ	24	0824	0832	0844	S14	E57	6891	10	28.6	20	SF		2	C				
	LEAR	24	0824	0837	0848	S13	E53	6891	10	28.3	24	SF		3	E		41		F
	SVTO	24	0825	0837	0847	S12	E54	6891	10	28.4	22	SF	C 5.8	4	E		50		
	HTPR	24	0850	0853	0856	S10	E55	6891	10	28.5	6	SN			C	0853	80	1.6	E
	HTPR	24	0900	0904	0925	S12	E50	6891	10	28.1	25	1N			C	0904	120	2.0	E
0369		24	09453	09473	1004	S16	E61	6891	10	29.0	19	SN	M 1.3				70		E
	HTPR	24	0945	0950	1005	S17	E60	6891	10	29.0	20	SN			C	0950	110		E
	SVTO	24	0946	0947	1002	S15	E63	6891	10	29.2	16	SN	M 1.3	4	E		31		
	KANZ	24	0948	0948	1004	S16	E60	6891	10	28.9	16	SF		2	C				
0370	HTPR	24	1008	1013	1020	S16	E57	6891	10	28.7	12	SN			C	1013	60		E
0371	SVTO	24	1023	1035U	1039	S21	E57	6892	10	28.8	16	SF		4	E		91		
0372		24	1100*	11124	1124	N08	W06	6886	10	24.0	24	SF					22	0.3	E
	HTPR	24	1100		1120	N09	W08	6886	10	23.8	20	SF			C	1110	30	0.3	E
	SVTO	24	1109	1112	1132	N08	W05	6886	10	24.1	23	SF		4	E		13		E
	KANZ	24	1112	1116	1120	N08	W06	6886	10	24.0	8	SF		2	C				
0373	KANZ	24	1100	1100	1108	S08	E46	6898	10	27.9	8	SF		2	C				
0374		24	1100*	1105*	1126	S11	E54	6891	10	28.5	26	SN	M 1.2				77	1.5	E
	HTPR	24	1100	1105	1115	S10	E48	6891	10	28.1	15	SN			C	1105	100	1.5	
	SVTO	24	1107	1108	1113	S12	E53	6891	10	28.4	6	SF	M 1.2	4	E		20		
	KANZ	24	1108	1108	1116	S16	E56	6891	10	28.7	8	SF		2	C				
	HTPR	24	1112	1120	1200	S07	E60	6891	10	29.0	48	1N			C	1120	110		E
0375	HTPR	24	1106	1110	1120	S17	E55	6892	10	28.6	14	1N			C	1110	170	2.8	E
0376	KANZ	24	1244	1244	1248	S15	E54	6891	10	28.6	4	SF		2	C				
0377	KANZ	24	1320	1320	1324	S16	E55	6891	10	28.7	4	SF		2	C				
0378	HTPR	24	1440	1450	1510	S13	W75	6884	10	18.9	30	1N			C	1450	120		
0379	RAMY	24	1548	1554	1609	S18	E48	6892	10	28.3	21	SF		3	E		29		F
0380	HOLL	24	1648	1650	1659	S20	E54	6892	10	28.8	11	SF	M 2.5	3	E		41		
0381		24	16531	1655*	1750	S15	E51	6891	10	28.6	57	1B	M 3.2				163		EFK
	PALE	24	1653	1712	1741	S15	E50	6891	10	28.5	48	1N	M 3.2	3	E		141		FE
	HOLL	24	1654	1655	1749	S15	E51	6891	10	28.6	55	1B			E		146		K
	RAMY	24	1654	1655	1759	S16	E51	6891	10	28.6	65	1N		3	E		130		FE
	HOLL	24	1654	1714	1749	S15	E51	6891	10	28.6	55	1B		3	E		234		F
		24	1853		1857	No Flare Patrol													

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
		24	1904		1905	No Flare Patrol													
0382	PALE	24	2039	2043	2049	S12	E50	6891	10	28.6	10	SF		3	E		11		
0383	PALE	24	2103	2105	2113	S09	E53	6891	10	28.8	10	SF	C 4.0	3	E		30		F
		24	2104		2122	No Flare Patrol													
		24	2146		2204	No Flare Patrol													
0384		24	2156*	22365	2415	S12	E47	6891	10	28.4	139	1N	M 9.8				195		FZ
	PALE	24	2156	2236	2415	S12	E46	6891	10	28.4	139	1N	M 9.8	3	E		195		F
	LEAR	24	2233	2241	2244D	S12	E48	6891	10	28.5	11D	1N		2	E		195		ZF
0385	PALE	24	2228	2239	2302	S20	E50	6892	10	28.8	34	SF		3	E		79		
0386	PALE	25	0014	0019	0047	S20	E49	6892	10	28.7	33	SF		3	E		16		
0387		25	00366	0043	0049	N16	E70	6893	10	30.3	13	SF					26		
	LEAR	25	0036	0043	0050	N16	E68	6893	10	30.2	14	SF		3	E		36		
	PALE	25	0042	0043	0048	N17	E73	6893	10	30.6	6	SF		3	E		16		
0388	LEAR	25	0220	0226	0243	S12	E45	6891	10	28.5	23	SF		3	E		33		F
0389	LEAR	25	0316	0326	0340	N19	E33	6888	10	27.6	24	SF		3	E		53		F
0390	LEAR	25	0321	0326	0333	S20	E46	6892	10	28.6	12	SF		3	E		43		F
0391		25	04451	0448	0456	S10	E48	6891	10	28.8	11	SF	C 8.7				72	1.4	DF
	PEKG	25	0445	0448	0500	S07	E51	6891	10	29.0	15	SF			P	0448	84	1.4	D
	LEAR	25	0446	0448	0452	S12	E44	6891	10	28.5	6	SF	C 8.7	3	E		59		F
0392	LEAR	25	0456	0521	0530	S20	E46	6892	10	28.7	34	SF		3	E		37		
0393		25	05579	06017	0620	N10	W16	6886	10	24.0	23	SN					58	1.1	E
	LEAR	25	0557	0601	0615	N10	W16	6886	10	24.0	18	SF		3	E		17		
	WATU	25	0606	0608	0624	N10	W16	6886	10	24.0	18	SN			C	0608	100	1.1	E
0394	LEAR	25	0601	0604	0610	N16	E65	6893	10	30.2	9	SF		3	E		44		F
0395	WATU	25	0647	0652	0659	N12	W17	6886	10	24.0	12	SN			C	0652	50	0.5	
0396		25	0704	07053	0714	S14	E43	6891	10	28.5	10	SN	C 8.4				102	2.0	
	LEAR	25	0704	0705	0715	S13	E44	6891	10	28.6	11	SF	C 8.4	3	E		53		
	WATU	25	0704	0708	0712	S15	E42	6891	10	28.5	8	SN			C	0708	150	2.0	
0397		25	07446	07533	0811	S19	E42	6892	10	28.5	27	SF	M 1.3				156	3.9	FK
	LEAR	25	0744	0753	0814	S20	E41	6892	10	28.4	30	SF	M 1.3	3	E		51		F
	KANZ	25	0748	0756	0816	S20	E44	6892	10	28.7	28	SF		2	C				
	WATU	25	0750	0754	0804	S18	E41	6892	10	28.4	14	1N			P	0754	260	3.9	FK
0398		25	07482	07522	0803	S14	E42	6891	10	28.5	15	1N					260	3.6	F
	KANZ	25	0748	0752	0756	S13	E41	6891	10	28.4	8	SF		2	C				
	HTPR	25	0750	0754	0810	S15	E42	6891	10	28.5	20	1N			C	0754	260	3.6	F
0399	HTPR	25	0851		0910	S14	W90	6884	10	18.6	19	SN			C				A
0400		25	0908	0908	0928	S13	E43	6891	10	28.6	20	SF	C 7.8				27		F
	SVTO	25	0907E	0908U	0928D	S12	E43	6891	10	28.6	21D	SF	C 7.8	2	E		27		F
	KANZ	25	0908	0908	0928	S14	E43	6891	10	28.6	20	SF		2	C				
0401		25	09071	09087	0921	S22	E46	6892	10	28.9	14	1F					180	3.0	E
	HTPR	25	0907	0915	0930	S20	E45	6892	10	28.8	23	1F			C	0915	180	3.0	E
	KANZ	25	0908	0908	0912	S23	E48	6892	10	29.1	4	SF		2	C				
0402	SVTO	25	1004E	1010U	1022	S13	E40	6891	10	28.4	18D	SF		2	E		14		
0403	HTPR	25	1039	1040	1050	N09	W23	6886	10	23.7	11	SN			C	1040	90	1.0	

Hα SOLAR FLARES

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0404		25	10404	1048*	1257	S09	E38	6891	10	28.3	137	1B	M 1.7				164	2.8	EFI
	KANZ	25	1040	1056	1250	S09	E40	6891	10	28.4	130	1N		2	C				
	HTPR	25	1042	1048	1240	S08	E37	6891	10	28.2	118	1B			C	1048	240	3.1	E
	SVTO	25	1044	1059	1341	S09	E37	6891	10	28.2	177	1B	M 1.7	4	E		133		F
	RAMY	25	1049E	1108	1238	S10	E38	6891	10	28.3	109D	SN		4	E		91		F
	ONDR	25	1113E	1113U	1201U	S08	E37	6891	10	28.2	48U	1B			P	1113	191	2.6	EIF
0405	SVTO	25	1123	1126	1139	S20	E41	6892	10	28.6	16	SF		4	E		42		E
0406	SVTO	25	1146	1150	1200	S23	E43	6892	10	28.8	14	SF		4	E		46		
0407		25	1148	1148	1204	S14	E48	6892B	10	29.1	16	SN					103	1.7	EI
	KANZ	25	1148	1148	1204	S15	E49	6892B	10	29.2	16	SF		2	C				
	ONDR	25	1150E	1151U	1204U	S14	E48	6892B	10	29.1	14U	SN			P	1151	103	1.7	EI
0408		25	12042	12043	1214	N15	E69	6893	10	30.7	10	SF					24		
	KANZ	25	1204	1204	1212	N15	E70	6893	10	30.8	8	SF		2	C				
	SVTO	25	1206	1207	1215	N15	E68	6893	10	30.6	9	SF		4	E		24		
0409		25	12282	12284	1240	S20	E38	6892	10	28.4	12	SF					207	5.1	F
	RAMY	25	1228	1228	1243	S20	E38	6892	10	28.4	15	SF		3	E		34		F
	HTPR	25	1228	1232	1238	S19	E35	6892	10	28.2	10	1F			C	1232	380	5.1	
	KANZ	25	1230	1230	1238	S20	E40	6892	10	28.6	8	SF		2	C				
0410	SVTO	25	1253	1320	1327	N18	E68	6893	10	30.7	34	SF		4	E		37		
0411		25	13251	13262	1339	S03	E82	6896	10	31.7	14	SN							E
	HTPR	25	1325	1328	1340	S03	E85	6896	10	31.9	15	SB			C				E
	KANZ	25	1326	1326	1338	S03	E80	6896	10	31.5	12	SF		2	C				
0412		25	1330*	13562	1427	S22	E44	6892	10	28.9	57	SF					43		F
	SVTO	25	1330	1438U	1500	S22	E43	6892	10	28.9	90	SF		2	E		72		F
	KANZ	25	1354	1358	1410	S22	E45	6892	10	29.0	16	SF		2	C				
	RAMY	25	1355	1356	1411	S22	E44	6892	10	29.0	16	SF		3	E		14		F
0413		25	14062	14091	1417	N16	E66	6893	10	30.6	11	SF	C 9.1				59		F
	KANZ	25	1406	1410	1418	N15	E67	6893	10	30.6	12	SF		2	C				
	RAMY	25	1407	1409	1414	N15	E66	6893	10	30.6	7	SF	C 9.1	3	E		28		F
	HTPR	25	1408	1410	1420	N18	E65	6893	10	30.5	12	SF			C	1410	90		
		25	1531		1535	No Flare Patrol													
0414		25	17086	1723*	1804	S11	E36	6891	10	28.4	56	SF	M 1.4				84		F
	RAMY	25	1708	1735	1805	S11	E35	6891	10	28.3	57	SF	M 1.4	3	E		97		F
	PALE	25	1714	1723	1804	S10	E35	6891	10	28.3	50	SN		3	E		89		F
	HOLL	25	1719E	1719U	1737D	S12	E39	6891	10	28.6	18D	SF		1	E		67		F
		25	1930		1933	No Flare Patrol													
0415	HOLL	25	2043	2044	2055	N18	E61	6893	10	30.5	12	SF		3	E		21		F
0416	HOLL	25	2146	2147	2204	S09	E28	6891	10	28.0	18	SF		4	E		26		F
0417	HOLL	25	2150	2151	2201	S19	E39	6892	10	28.9	11	SF	C 3.8	3	E		17		F
0418	HOLL	25	2205	2217	2225	S14	E35	6891	10	28.6	20	SF		3	E		29		F
0419	LEAR	26	0010	0010	0038	N17	E60	6893	10	30.6	28	SF		3	E		26		
0420		26	0010	00133	0021	S13	E34	6891	10	28.6	11	1N	M 1.1				128	2.3	F
	WATU	26	0010	0013	0021	S15	E33	6891	10	28.5	11	1B			C	0013	170	2.3	F
	PALE	26	0015E	0016	0016D	S11	E34	6891	10	28.6	1D	SF	M 1.1	3	E		85		
0421		26	0030*	0104*	0226	S10	E30	6891	10	28.3	116	1N					270	3.3	EFIJK
	WATU	26	0030	0104	0150	S11	E31	6891	10	28.3	80	1N			C	0104	300	3.8	F
	YUNN	26	0106E	0110U	0111D	S11	E30	6891	10	28.3	5D	1N			P	0110	220	2.7	
	VORO	26	0139		0201	S08	E27	6891	10	28.1	22	1F		1	C	0143	287	3.4	EIJ
	URUM	26	0154E	0155	0300	S09	E29	6891	10	28.2	66D	SF			C		48	0.6	E
	WATU	26	0226	0243	0254	S10	E29	6891	10	28.3	28	2N			C	0243	450	5.5	FK
	YUNN	26	0236E	0236U	0311D	S09	E31	6891	10	28.4	35D	1N			P	0236	314	3.9	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0422	SVTO	26	0845	0855	0912	N17	E53	6893	10	30.4	27	SF		4	E		22		
0423		26	09135	09213	0936	S12	E20	6891	10	27.9	23	1N	C 5.0				144	2.6	EFI
	URUM	26	0913	0923	0934D	S12	E20	6891	10	27.9	21D	1N			C		241	2.8	E
	SVTO	26	0916	0921	0943	S11	E20	6891	10	27.9	27	SF	C 5.0	4	E		80		F
	ONDR	26	0917	0924	0941U	S12	E21	6891	10	28.0	24U	1B			P	0924	205	2.4	EFI
	LEAR	26	0918	0922	0930	S11	E19	6891	10	27.8	12	SF		3	E		50		
0424		26	1012	1022	1044	S20	E32	6892	10	28.9	32	SN					69	1.3	EFI
	SVTO	26	1012	1022	1049	S22	E31	6892	10	28.8	37	SF		4	E		42		
	ONDR	26	1018E	1022U	1039	S17	E33	6892	10	28.9	21D	SN			P	1022	96	1.3	EIF
0425	RAMY	26	1123	1124	1137	S15	E27	6891	10	28.5	14	SF	C 4.3	2	E		27		F
0426	ONDR	26	1216E	1216U	1220	N09	W33	6886	10	24.0	4D	SN			P	1216	75	0.9	E
0427	RAMY	26	1227	1230	1241	N17	E55	6893	10	30.7	14	SF		3	E		16		F
0428		26	12533	12583	1312	S14	E26	6891	10	28.5	19	SN					102	1.9	EFI
	ONDR	26	1253	1301	1314U	S15	E25	6891	10	28.4	21U	SB			P	1301	154	1.9	EFI
	RAMY	26	1256	1258	1312	S14	E27	6891	10	28.6	16	SF		3	E		50		F
0429		26	1306*	1412	1456	S03	E67	6896	10	31.5	110	1N	C 8.9				179		FSU
	SVTO	26	1306	1412	1452	S03	E69	6896	10	31.7	106	2N	C 8.9	4	E		268		
	HOLL	26	1348E	1413U	1530	S03	E67	6896	10	31.6	102D	1B		2	E		122		UF
	RAMY	26	1351	1416U	1425	S04	E65	6896	10	31.4	34	1N		2	E		148		FS
0430	SVTO	26	1331	1331	1336	N17	E51	6893	10	30.4	5	SF		4	E		18		
0431	SVTO	26	1333	1337	1348	S20	E28	6892	10	28.7	15	SF		4	E		17		F
0432	SVTO	26	1334	1334	1344	N06	W35	6886	10	23.9	10	SF		4	E		13		
0433	SVTO	26	1501	1505	1513	S02	E66	6896	10	31.5	12	SF		3	E		43		
0434	HOLL	26	1555	1559	1609	N19	E50	6893	10	30.5	14	SF		3	E		29		F
0435		26	1847*	1850*	1936	S10	E20	6891	10	28.3	49	1N	X 1.7				295		FKTUY
	HOLL	26	1847	1852	2356D	S11	E20	6891	10	28.3	309D	1N			E		170		KT
	HOLL	26	1847	2040	2356D	S11	E20	6891	10	28.3	309D	2B		3	E		426		YFT
	RAMY	26	1848	1850	2003	S12	E22	6891	10	28.4	75	SF		2	E		93		F
	PALE	26	1853E	1858	1910	S09	E20	6891	10	28.3	17D	1N		3	E		191		UF
	RAMY	26	2019	2108U	2108D	S09	E20	6891	10	28.3	49D	2N		3	E		385		F
	PALE	26	2045E	2051	2325D	S09	E20	6891	10	28.4	160D	2N	X 1.7	3	E		506		UF
0436		26	1853*	1923*	2031	S21	E25	6892	10	28.7	98	SF					36		F
	HOLL	26	1853	2040	2100	S21	E25	6892	10	28.7	127	SF		3	E		26		F
	RAMY	26	1918	1923	2029	S21	E26	6892	10	28.8	71	SF		2	E		40		
	PALE	26	1929	1938	2003	S20	E24	6892	10	28.6	34	SF		3	E		43		
0437		27	0024*	0031*	0058	S15	E19	6891	10	28.4	34	1N	M 2.3				271	3.9	EF
	LEAR	27	0024	0031	0059	S14	E19	6891	10	28.4	35	1N	M 2.3	3	E		144		F
	WATU	27	0030	0043	0050	S15	E19	6891	10	28.4	20	1N			C	0043	250	2.9	F
	PEKG	27	0040	0046	0105	S16	E19	6891	10	28.5	25	1B			P	0046	420	4.9	E
0438		27	0153*	0209*	0255	S18	E19	6892	10	28.5	62	2N					429	5.8	EFIJKZ
	LEAR	27	0153	0209U	0330D	S20	E20	6892	10	28.6	97D	1B		3	E		163		F
	WATU	27	0205	0211	0242	S17	E18	6892	10	28.4	37	2B			C	0211	540	6.3	FKZ
	PEKG	27	0206	0209	0302	S16	E18	6892	10	28.4	56	3B			P	0209	1093	12.7	E
	URUM	27	0219	0225	0255	S18	E19	6892	10	28.5	36	SF			C		145	1.7	E
	VORO	27	0232		0301	S18	E18	6892	10	28.5	29	1N		1	C	0233	206	2.4	EIJ
0439	LEAR	27	0206	0210	0257	S11	E20	6891	10	28.6	51	2B	X 1.9	3	E		460		F
0440		27	0520*	0527*	0632	S18	E18	6892	10	28.6	72	1N	C 9.8				356	9.4	EFK
	PEKG	27	0520	0546	0650	S16	E16	6892	10	28.4	90	3B			P	0546	1262	14.6	E
	WATU	27	0524		0654	S17	E14	6892	10	28.3	90	1N			P	0603	370	4.2	K
	LEAR	27	0524	0527	0533	S15	E17	6892	10	28.5	9	SF	C 9.8	3	E		25		
	LEAR	27	0542	0553	0703	S22	E21	6892	10	28.8	81	SN		3	E		83		F
	SVTO	27	0550	0553	0621	S21	E24	6892	10	29.1	31	SF		2	E		40		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0441		27	0538	05445	0656	S13	E17	6891	10	28.5	78	2B	X 6.1				502	4.6	EFH
	LEAR	27	0538	0549	0658	S13	E15	6891	10	28.4	80	3B	X 6.1	3	E		602		F
	SVTO	27	0539E	0544	0700	S10	E18	6891	10	28.6	81D	3B		2	E				FH
	URUM	27	0544E	0544U	0651	S15	E18	6891	10	28.6	67D	1N			C		402	4.6	E
0442		27	07443	07473	0757	S19	E26	6892	10	29.3	13	SN					100	2.0	EFZ
	WATU	27	0744	0750	0758	S19	E25	6892	10	29.2	14	SN			C	0750	160	2.0	EZ
	SVTO	27	0747	0747	0756	S19	E28	6892	10	29.5	9	SF		2	E		40		F
0443		27	0802	0812	0839	S17	E28	6892B	10	29.5	37	1N					418	9.8	BEFIU
	SVTO	27	0802	0812	0839	S18	E29	6892B	10	29.5	37	SF		3	E		53		F
	ONDR	27	0817E	0817U	0843U	S16	E27	6892B	10	29.4	26U	2N			P	0817	783	9.8	UEFIB
0444	SVTO	27	1056	1057	1112	S22	E19	6892	10	28.9	16	SF		3	E		13		F
0445	SVTO	27	1058	1058	1105	S10	E13	6891	10	28.4	7	SF		3	E		15		F
0446		27	1115*	1135	1220	N17	E37	6893	10	30.3	65	SF	C 6.5				62	1.1	EF
	SVTO	27	1115	1135	1220	N17	E37	6893	10	30.3	65	SF	C 6.5	4	E		60		
	RAMY	27	1135	1135	1220	N16	E39	6893	10	30.4	45	SF		3	E		42		F
	ONDR	27	1212E	1212U	1220U	N17	E35	6893	10	30.2	8U	SN			P	1212	85	1.1	E
0447		27	1233*	12586	1322	S14	E13	6891	10	28.5	49	1N	M 3.3				136	2.5	CEFI
	SVTO	27	1233	1304	1328	S14	E14	6891	10	28.6	55	1N	M 3.3	4	E		101		F
	ONDR	27	1256E	1258	1322	S14	E13	6891	10	28.5	26D	1B			P	1258	222	2.5	CEFI
	RAMY	27	1257	1258	1316	S14	E13	6891	10	28.5	19	SN		3	E		85		F
0448	RAMY	27	1429	1430	1433	S14	E10	6891	10	28.3	4	SF	C 3.7	3	E		11		
0449	HOLL	27	1453	1453	1502	S14	E12	6891	10	28.5	9	SF	C 4.5	3	E		25		F
0450	HOLL	27	1508	1523	1542	N19	E02	6888	10	27.8	34	SF	C 5.8	3	E		13		F
0451	HOLL	27	1510	1521	1537	S14	E12	6891	10	28.5	27	SF		3	E		30		F
0452	HOLL	27	1710	1710	1720	S14	E12	6891	10	28.6	10	SF	C 4.3	3	E		27		EF
0453	HOLL	27	1718	1737	1832	N16	E33	6893	10	30.2	74	1N	C 9.7	3	E		162		EF
0454	HOLL	27	1803	1810	1822	S14	E09	6891	10	28.4	19	SF		3	E		26		EF
0455	HOLL	27	1954	1957	2020	N19	W02	6888	10	27.7	26	SF	C 2.8	3	E		43		E
		27	2105		2215	No Flare Patrol													
		27	2257		2349	No Flare Patrol													
0456	LEAR	27	2322	2325	2336	N18	W09	6888	10	27.3	14	SF		3	E		20		
		27	2400		2400	No Flare Patrol													
0457	WATU	28	0000	0005	0006	S16	W48		10	24.3	6	SF			C	0005	10	0.2	DG
0458	LEAR	28	0006	0007	0011	S22	E13	6892	10	29.0	5	SF		3	E		32		F
0459		28	0104	01082	0126	S12	E04	6891	10	28.3	22	SN	M 1.1				74	1.1	FT
	WATU	28	0104	0108	0123	S12	E02	6891	10	28.2	19	SN			C	0108	100	1.1	FT
	LEAR	28	0104	0110	0128	S11	E07	6891	10	28.6	24	SF	M 1.1	3	E		48		
0460		28	01282	01302	0144	S10	E05	6891	10	28.4	16	SN					88	1.6	FT
	WATU	28	0128	0132	0145	S10	E05	6891	10	28.4	17	SN			C	0132	150	1.6	FT
	LEAR	28	0130	0130	0144	S09	E05	6891	10	28.4	14	SF		3	E		25		F
0461	LEAR	28	0206	0210	0231	S17	E09	6892	10	28.8	25	SF		3	E		58		F
0462		28	02582	03022	0311	S14	W02	6891	10	28.0	13	SN					59	0.6	DIJ
	VORO	28	0258	0302	0316	S13	W03	6891	10	27.9	18	SF		1	C	0302	90	1.0	DIJ
	YUNN	28	0258	0303	0316	S13	W03	6891	10	27.9	18	SN			C		75	0.8	
	URUM	28	0300	0302	0307	S15	W01	6891	10	28.0	7	SF			C		32	0.4	D
	WATU	28	0300	0304	0306	S13	W01	6891	10	28.0	6	SN			C	0304	40	0.4	

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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	See	Obs Type	Area Measurement Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0463	LEAR	28	0338	0353	0409	N17	E29	6893	10	30.3	31	SF	C 8.9	3	E		55		F
0464		28	0350	03511	0404	S13	E03	6891	10	28.4	14	SN					97	1.8	EFK
	LEAR	28	0350	0351	0401	S11	E05	6891	10	28.5	11	SF		3	E		34		F
	WATU	28	0350	0352	0406	S15	E01	6891	10	28.2	16	SN			C	0352	160	1.8	EK
0465		28	03501	0352	0420	S19	E08	6892	10	28.8	30	SF					80	1.2	EIJ
	LEAR	28	0350	0352	0441	S22	E11	6892	10	29.0	51	SF		3	E		51		
	VORO	28	0351	0352	0358	S16	E04	6892	10	28.5	7	SF		1	C	0352	108	1.2	EIJ
0466	LEAR	28	0517	0525	0547	S17	E06	6892	10	28.7	30	SF	C 4.5	3	E		58		F
0467		28	0544*	06142	0640	S02	E44	6896	10	31.5	56	1F					82	0.7	EFG
	LEAR	28	0544	0614	0700	S01	E44	6896	10	31.5	76	1F		3	E		114		F
	WATU	28	0614	0616	0621	S03	E44	6896	10	31.5	7	SF			C	0616	50	0.7	EG
0468	WATU	28	0547	0553	0558	S14	E02	6891	10	28.4	11	1F			C	0553	230	2.5	E
0469		28	06325	06393	0644	S12	E00	6891	10	28.3	12	SF	C 9.6				58	1.0	EF
	LEAR	28	0632	0642	0646	S14	E03	6891	10	28.5	14	SF	C 9.6	3	E		26		F
	WATU	28	0637	0639	0642	S09	W02	6891	10	28.1	5	SF			C	0639	90	1.0	E
0470	LEAR	28	0636	0640	0718	N17	E25	6893	10	30.2	42	SF		3	E		68		
0471		28	07045	07141	0730	S13	E04	6891	10	28.6	26	SN	C 7.7				119	1.6	EFIT
	WATU	28	0704	0714	0727	S13	E03	6891	10	28.5	23	SN			C	0714	120	1.3	F
	URUM	28	0707	0715	0736	S13	E04	6891	10	28.6	29	SN			C		96	1.0	E
	LEAR	28	0709	0715	0724	S14	E03	6891	10	28.5	15	SF	C 7.7	3	E		32		
	KAND	28	0717E		0735	S13	E04	6891	10	28.6	18D	1N			P	0717	229	2.5	EFIT
0472		28	07362	07405	0756	S14	E03	6891	10	28.5	20	SN	M 1.5				141	1.7	CEFITZ
	URUM	28	0736	0745	0800	S14	E03	6891	10	28.5	24	SN			C		129	1.4	E
	WATU	28	0737	0740	0753	S14	E02	6891	10	28.5	16	SN			C	0740	170	1.9	FZ
	KAND	28	0737	0741	0802	S14	E03	6891	10	28.5	25	SB			P	0741	125	1.3	EFIT
	YUNN	28	0737E	0743U	0747D	S15	E04	6891	10	28.6	10D	SN			P	0743	165	1.8	
	LEAR	28	0738	0742	0751	S14	E03	6891	10	28.5	13	SN	M 1.5	3	E		74		
	ONDR	28	0742E	0742U	0755U	S14	E04	6891	10	28.6	13U	SN			P	0742	181	2.0	CEFI
		28	1017		1106	No Flare Patrol													
0473	ONDR	28	1220	1227U	1233	S13	W03	6891	10	28.3	13	SF			P	1227	126	1.4	E
0474	ONDR	28	1227	1236U	1307	N16	E22	6893	10	30.2	40	1B			P	1236	273	3.1	EFKU
0475	ONDR	28	1314E	1314U	1329	S01	E42	6896	10	31.7	15D	SN			P	1314		1.9	EFG
0476	HOLL	28	1453	1457U	1505	N22	E31	6893	10	31.0	12	SF	C 4.9	2	E		106		F
0477	HOLL	28	1525	1526	1543	S11	W04	6891	10	28.3	18	SF	M 1.1	2	E		63		EF
0478	HOLL	28	1557	1619	1704	S11	E00	6891	10	28.7	67	SB	M 1.3	3	E		98		F
0479	HOLL	28	1711	1715	1738	S13	W04	6891	10	28.4	27	SN		3	E		37		F
0480		28	1720*	1730*	1750	S20	E03	6892	10	28.9	30	SN					62		EF
	HOLL	28	1720	1730	1750	S17	E03	6892	10	28.9	30	SN		3	E		96		FE
	PALE	28	1746	1746	1751	S22	E03	6892	10	29.0	5	SF		2	E		27		
0481		28	1739	1748	1838	S12	W05	6891	10	28.3	59	1N	M 2.2				84		EF
	PALE	28	1739	1748	1832	S13	W04	6891	10	28.4	53	SF		2	E		62		F
	HOLL	28	1739	1748	1843	S10	W06	6891	10	28.3	64	1N	M 2.2	3	E		106		FE
0482	HOLL	28	1821	1821	1829	S08	W21	6898	10	27.2	8	SF		3	E		13		
0483	HOLL	28	1858	1901	1909	S20	W07	6892	10	28.2	11	SN	C 6.1	3	E		64		EF
0484	HOLL	28	1900	1902	1905	S14	W02	6891	10	28.6	5	SF		3	E		13		E
0485	HOLL	28	1932	1935	1948	N16	E20	6893	10	30.3	16	SF		3	E		20		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0486		28	19401	19413	1952	S14	W02	6891	10	28.7	12	SF	C 7.4				15		EF
	HOLL	28	1940	1941	1949	S12	W03	6891	10	28.6	9	SF		3	E		12		FE
	PALE	28	1941	1944	1954	S15	W02	6891	10	28.7	13	SF	C 7.4	3	E		18		
0487		28	20191	2021	2030	S17	W00	6892	10	28.8	11	SF					17		
	HOLL	28	2019	2021	2031	S17	W01	6892	10	28.8	12	SF		3	E		20		
	PALE	28	2020	2021	2029	S17	E00	6892	10	28.8	9	SF		3	E		14		
0488		28	20221	20261	2038	S10	W04	6891	10	28.5	16	1N	M 1.3				85		F
	PALE	28	2022	2026	2037	S09	W04	6891	10	28.5	15	SF		3	E		60		
	HOLL	28	2023	2027	2040	S11	W05	6891	10	28.5	17	1B	M 1.3	3	E		110		F
0489		28	20322	2036	2058	N16	E17	6893	10	30.1	26	SF					36		F
	HOLL	28	2032	2036	2100	N17	E17	6893	10	30.1	28	SF		3	E		57		F
	PALE	28	2034	2036	2055	N16	E17	6893	10	30.1	21	SF		3	E		14		
0490		28	21032	21051	2114	S09	W04	6891	10	28.6	11	SF					32		F
	HOLL	28	2103	2106	2117	S07	W03	6891	10	28.6	14	SF		3	E		37		F
	PALE	28	2105	2105	2110	S11	W04	6891	10	28.6	5	SF		3	E		26		F
0491	HOLL	28	2125	2126	2133	S12	W07	6891	10	28.4	8	SF		3	E		54		F
0492		28	2136	21372	2152	S09	E00	6891	10	28.9	16	1N	C 7.9				92		EF
	HOLL	28	2136	2137	2152	S09	E00	6891	10	28.9	16	1N	C 7.9	3	E		101		FE
	PALE	28	2136	2139	2151	S09	E01	6891	10	29.0	15	SF		3	E		83		F
0493	HOLL	28	2229	2229	2235	S13	W08	6891	10	28.3	6	SF		2	E		22		F
0494	LEAR	28	2304	2304	2312	S15	W08	6891	10	28.3	8	SF	C 6.8	3	E		15		
0495		29	00165	00242	0044	S17	W09	6892	10	28.3	28	1N	C 7.7				172	2.2	EFIJT
	WATU	29	0016	0024	0029	S17	W09	6892	10	28.3	13	1B			C	0024	250	2.8	F
	MITK	29	0017	0026	0059	S18	W08	6892	10	28.4	42	1N			C	0026	190	2.1	E I
	VORO	29	0021	0024	0042	S16	W10	6892	10	28.2	21	SN		1	C	0024	161	1.8	EIJT
	LEAR	29	0021	0024	0044	S18	W09	6892	10	28.3	23	SN	C 7.7	3	E		89		F
0496		29	0030*	0034*	0050	S13	W08	6891	10	28.4	20	SF					90	1.0	DEIJT
	VORO	29	0030	0036	0050	S13	W09	6891	10	28.3	20	SF		1	C	0036	81	0.9	DIJT
	WATU	29	0033	0034	0050	S13	W08	6891	10	28.4	17	SF			C	0034	80	0.9	ET
	WATU	29	0055	0102		S12	W08	6891	10	28.4		SN			P	0102	110	1.2	
0497	LEAR	29	0051	0100	0130	N16	E16	6893	10	30.2	39	SF	C 5.8	3	E		45		F
0498	PALE	29	0131	0132	0146	S13	W06	6891	10	28.6	15	SF	C 4.7	2	E		16		F
0499	LEAR	29	0236	0246	0256	S18	W04	6892	10	28.8	20	SF		3	E		42		F
0500		29	04563	0459*	0510	S14	W12	6891	10	28.3	14	SF	C 4.8				87	1.6	EKZ
	WATU	29	0456	0513	0515	S14	W12	6891	10	28.3	19	SF			C	0513	150	1.6	EKZ
	LEAR	29	0459	0459	0504	S13	W11	6891	10	28.4	5	SF	C 4.8	3	E		24		
		29	1006		1011	No Flare Patrol													
		29	1013		1016	No Flare Patrol													
0501	SVTO	29	1017E	1019	1041	S09	E62	6900	11	3.1	24D	SF		4	E		36		
0502	SVTO	29	1017E	1031	1041	S13	E35	6899	11	1.1	24D	SF		4	E		25		
0503	SVTO	29	1018E	1019	1027	S10	E10	6901	10	30.2	9D	SF		3	E		16		
0504	KANZ	29	1032	1032	1045	S18	W09	6892	10	28.7	13	SF		2	C				
0505	SVTO	29	1040E	1050U	1104	S15	E10	6901	10	30.2	24D	SF	C 6.2	4	E		30		
0506	HTPR	29	1055	1057	1120	S17	W11	6892	10	28.6	25	SF			C	1057	80	0.9	E
0507	KANZ	29	1057	1057	1129	S13	W12	6891	10	28.5	32	SF		2	C				
0508	SVTO	29	1115E	1115U	1129D	S07	E61	6900	11	3.0	14D	SF		4	E		20		

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0509	HTPR	29	1153	1201	1203D	S15	W11	6891	10	28.7	10D	SF			C	1201	80	0.9	
0510	KANZ	29	1420	1420	1424	S12	W19	6891	10	28.2	4	SF		2	C				
0511	RAMY	29	1505	1506	1520	S12	W15	6891	10	28.5	15	SF	C 4.5	3	E		23		F
0512	RAMY	29	1606	1606	1619	S12	W15	6891	10	28.5	13	SF		3	E		13		F
0513		29	1637*	17293	1748	S15	E05	6901	10	30.1	71	SN	C 5.1				46		EF
	HOLL	29	1637	1732	1750	S15	E05	6901	10	30.1	73	SN	C 5.1	3	E		71		FE
	RAMY	29	1719	1729	1745	S15	E05	6901	10	30.1	26	SF		3	E		21		F
0514		29	17404	1811*	2017	S10	W22	6891	10	28.1	157	1N	M 4.7				224		FKU
	RAMY	29	1740	1811	2031D	S10	W23	6891	10	28.0	171D	1N			E		101		K
	RAMY	29	1740	1855	2031D	S10	W23	6891	10	28.0	171D	2N	M 4.7	3	E		334		F
	HOLL	29	1744	1856	2017	S09	W20	6891	10	28.2	153	2B		3	E		394		F
	PALE	29	1951E	1951U	2022D	S10	W22	6891	10	28.2	31D	SF		2	E		65		UF
0515	RAMY	29	1850	1854	1925	S05	W39	6898	10	26.9	35	SF		3	E		42		F
0516	RAMY	29	1942	1942	1958	N15	E07	6893	10	30.3	16	SF		3	E		20		F
0517	HOLL	29	2032	2043	2118	S17	W14	6892	10	28.8	46	SF		3	E		66		F
0518		29	2119	2126	2214	S07	W20	6891	10	28.4	55	SN	M 1.1				54		EF
	HOLL	29	2119	2126	2214	S07	W20	6891	10	28.4	55	SN	M 1.1	3	E		88		FE
	PALE	29	2155E	2155U	2208D	S07	W20	6891	10	28.4	13D	SF		3	E		21		
0519	HOLL	29	2250	2257	2310	S21	W14	6892	10	28.9	20	SF		3	E		28		
0520	LEAR	29	2313	2324	2341	S15	E02	6901	10	30.1	28	SF		3	E		56		
		29	2322		2400	No Flare Patrol													
0521	PALE	30	0026	0027	0037	S10	W14	6891	10	29.0	11	SF		3	E		46		F
0522		30	0421*	0430*	0517	S19	W15	6892	10	29.0	56	1F	C 9.0				198	2.6	EFIT
	LEAR	30	0421	0430	0516	S22	W11	6892	10	29.3	55	2F	C 9.0	3	E		277		F
	WATU	30	0421	0433	0600	S20	W12	6892	10	29.3	99	1N			C	0433	320	3.7	FIT
	PEKG	30	0423	0431	0451	S20	W09	6892	10	29.5	28	1F			P	0431	294	3.4	E
	WATU	30	0450	0454	0509	S16	W23	6892	10	28.4	19	SF			C	0454	70	0.8	
	LEAR	30	0451	0456	0511	S16	W22	6892	10	28.5	20	SF	C 7.2	3	E		28		
0523		30	04251	04277	0452	N16	W01	6893	10	30.1	27	SF					73	0.8	DFT
	PEKG	30	0425	0434	0445	N15	W02	6893	10	30.0	20	SF			P	0434	42	0.4	D
	LEAR	30	0426	0427	0455	N16	E00	6893	10	30.2	29	SF		3	E		67		F
	WATU	30	0426	0427	0455	N16	W00	6893	10	30.2	29	SN			C	0427	110	1.2	T
0524	LEAR	30	0518	0523	0525	S14	W16	6891	10	29.0	7	SF		3	E		12		F
0525	LEAR	30	0528	0528	0540	S13	W32	6891	10	27.8	12	SF	C 7.0	3	E		15		
0526		30	06107	0613*	0741	S09	W26	6891	10	28.3	91	2N	X 2.5				692	7.6	BEFIKTU
	WATU	30	0610	0624	0718	S08	W28	6891	10	28.1	68	3B			P	0624	1060	12.8	FIT
	ABST	30	0611	0613	0621	S14	W23	6891	10	28.5	10	SN			C	0613	166	1.9	F
	LEAR	30	0611	0621	0903	S08	W25	6891	10	28.4	172	3B	X 2.5	3	E		670		UF
	PEKG	30	0615E	0628	0750	S10	W27	6891	10	28.2	95D	3B			P	0628	1304	15.6	E
	ABST	30	0617	0619	0640	S08	W27	6891	10	28.2	23	1N			C	0619	262	3.1	E
	KANZ	30	0710E		0710D	S09	W28	6891	10	28.2	23D	1F		2	C				
	ONDR	30	0813E	0815U	0854	S07	W28	6891	10	28.2	41D	1B			P	0815		4.7	UBIFEK
0527	LEAR	30	0616	0625	0649	S11	W38	6898	10	27.4	33	SF		3	E		89		F
0528	LEAR	30	0916	0920	0923	S13	W26	6891	10	28.4	7	SF		3	E		18		F
		30	1116		1208	No Flare Patrol													
0529		30	1308	1315	1341	S14	W28	6891	10	28.4	33	SF	C 5.7				33		F
	KANZ	30	1308	1316U	1316D	S14	W28	6891	10	28.4	8D	SF		2	C				
	RAMY	30	1315E	1315	1341	S13	W27	6891	10	28.5	26D	SF	C 5.7	3	E		33		F

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0530	HOLL	30	1415E	1416U	1458	S14	W36	6891	10	27.9	43D	SN	C	6.9	2	E		81		F
0531	HOLL	30	1614	1617	1626	S10	W35	6891	10	28.0	12	SN	C	4.0	2	E		53		E
0532		30	17351	1749	1759	S12	W33	6891	10	28.2	24	SF						55		F
	HOLL	30	1735	1749	1800	S13	W33	6891	10	28.2	25	SF			3	E		68		F
	RAMY	30	1736	1749	1758	S12	W33	6891	10	28.2	22	SF			3	E		42		F
0533		30	1913	19151	1928	S09	W34	6891	10	28.2	15	1N	M	4.3				98		F
	PALE	30	1913	1915	1927	S08	W33	6891	10	28.3	14	SF			3	E		42		F
	HOLL	30	1913	1916	1930	S10	W35	6891	10	28.2	17	1B	M	4.3	3	E		155		F
0534	HOLL	30	1948	1949	1957	S12	W23	6891	10	29.1	9	SN	C	7.1	3	E		96		
0535		30	2019	2021	2034	S12	W40	6891	10	27.8	15	SN	C	6.8				51		F
	RAMY	30	2019	2021	2033	S13	W40	6891	10	27.8	14	SF	C	6.8	3	E		38		F
	HOLL	30	2019	2021	2035	S12	W40	6891	10	27.8	16	SN	C	6.8	3	E		64		F
0536	HOLL	30	2052	2059	2111	S07	E41	6900	11	2.9	19	SF			3	E		20		
		30	2143		2159	No Flare Patrol														
0537	LEAR	30	2223	2226	2229	S12	W31	6891	10	28.6	6	SF	C	5.3	3	E		41		F
0538		30	2246	2247	2250	S13	W37	6891	10	28.1	4	SN	C	3.2				74	1.6	DIJT
	VORO	30	2246	2247	2250	S14	W34	6891	10	28.4	4	SN			2	C	2247	116	1.6	DIJT
	HOLL	30	2247E	2248U	2335D	S12	W40	6891	10	27.9	48D	SF	C	3.2	3	E		31		
0539	LEAR	30	2338	2339	2403	S16	W27	6892	10	28.9	25	SF	C	3.2	3	E		23		F
0540		31	00453	0056	0124	S19	W31	6892	10	28.7	39	SF	C	9.0				127	1.5	DFIJT
	LEAR	31	0045	0056	0131	S20	W30	6892	10	28.7	46	1F	C	9.0	3	E		192		F
	PALE	31	0046E	0052U	0128D	S19	W29	6892	10	28.8	42D	SF			3	E		81		F
	VORO	31	0048	0056	0118	S19	W33	6892	10	28.5	30	SF			2	C	0056	108	1.5	DIJT
0541		31	0105*	0111*	0143	S13	W35	6891	10	28.4	38	SF	C	5.7				79	1.2	DEFIJT
	VORO	31	0105	0111	0158	S13	W37	6891	10	28.2	53	SF			2	C	0111	90	1.2	DIJT
	LEAR	31	0110	0124	0144	S13	W34	6891	10	28.5	34	SN	C	5.7	3	E		47		F
	VORO	31	0123	0124	0128	S14	W35	6891	10	28.4	5	SF			2	C	0124	99	1.3	EIJT
0542		31	02387	02506	0259	S12	W36	6891	10	28.4	21	SF						86	1.6	DFIJT
	WATU	31	0238	0256	0314	S11	W39	6891	10	28.2	36	1F				C	0256	150	2.1	FIT
	VORO	31	0239		0244	S14	W34	6891	10	28.5	5	SF			2	C	0243	81	1.0	DIJT
	LEAR	31	0245	0250	0250D	S12	W36	6891	10	28.4	5D	SF			3	E		27		
0543	WATU	31	0359	0400	0403	S13	W36	6891	10	28.4	4	SF				C	0400	90	1.2	
0544	WATU	31	0426	0427	0429	S11	W39	6891	10	28.2	3	SN				C	0427	30	0.5	D
0545	WATU	31	0527	0528	0532	S12	W44	6891	10	27.9	5	SF				C	0528	20	0.3	D
0546	WATU	31	0630	0631	0634	S13	W23	6901	10	29.5	4	SF				C	0631	60	0.6	
0547	LEAR	31	0758	0807	0818	S15	W38	6891	10	28.4	20	SF	C	8.9	3	E		47		
0548	LEAR	31	0802	0805	0818	N17	W18	6893	10	30.0	16	SF			3	E		31		
0549	HTPR	31	0937E		0943D	S18	W39	6892	10	28.4	6D	1F				C	0938	160	2.1	
		31	1012		1031	No Flare Patrol														
0550	HTPR	31	1227	1229	1243D	N10	E21	6902	11	2.1	16D	SF				C	1229	110	1.2	
0551	HTPR	31	1355E		1430	N10	E20	6902	11	2.1	35D	SF				C	1404	160	1.8	H
0552	RAMY	31	1356	1357	1408	S13	W41	6891	10	28.5	12	SF	C	2.2	3	E		18		F
0553	RAMY	31	1414	1415	1421	S11	W40	6891	10	28.6	7	SF			3	E		10		F

Hα SOLAR FLARES

OCTOBER 1991

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0554	RAMY	31	1506	1506	1521	S11	W34	6891	10	29.1	15	SF	C 1.9	3	E		14		F
0555	HOLL	31	1622	1625	1629	S22	W32	6892	10	29.2	7	SF		3	E		21		
0556		31	17171	17212	1750	S20	W38	6892	10	28.8	33	SF	C 3.1				52		F
	HOLL	31	1717	1723	1755	S20	W37	6892	10	28.9	38	SF	C 3.1	3	E		79		F
	RAMY	31	1718	1721	1745	S20	W38	6892	10	28.8	27	SF	C 3.1	3	E		24		F
0557	HOLL	31	1809	1829	1853	N18	W17	6893	10	30.5	44	SF	C 3.0	3	E		30		
0558	HOLL	31	1941	1945	1949	S18	W48	6892	10	28.2	8	SF	C 5.3	3	E		16		
0559		31	2118	21181	2127	S13	W43	6891	10	28.6	9	SN	C 3.9				58		EF
	PALE	31	2118	2118	2125	S12	W42	6891	10	28.7	7	SF	C 3.9	3	E		42		
	HOLL	31	2118	2119	2129	S14	W44	6891	10	28.6	11	SN		2	E		73		FE
0560	HOLL	31	2130	2131	2145	N16	W21	6893	10	30.3	15	SF		2	E		56		F
0561	HOLL	31	2140	2140	2144	S12	W44	6891	10	28.6	4	SF	C 3.1	3	E		35		F
0562	HOLL	31	2235	2238	2301	N15	W22	6893	10	30.3	26	SF	C 3.1	3	E		54		F
0563		31	2259*	2305*	2346	S12	W46	6891	10	28.5	47	SF	C 4.5				48	1.4	EFIJT
	LEAR	31	2259	2320	2352	S12	W43	6891	10	28.7	53	SN		3	E		49		FE
	HOLL	31	2259	2321	2354D	S11	W50	6891	10	28.2	55D	SN	C 4.5	3	E		44		F
	PALE	31	2304	2305	2331	S13	W45	6891	10	28.6	27	SF		3	E		27		
	VORO	31	2315	2321	2350	S13	W45	6891	10	28.6	35	SF		2	C	2321	90	1.4	EIJT
	PALE	31	2336	2338	2351	S13	W45	6891	10	28.6	15	SF		3	E		32		
0564		31	23174	23211	2338	N16	W24	6893	10	30.1	21	SF	C 9.5				16		F
	PALE	31	2317	2322	2347	N16	W24	6893	10	30.1	30	SF	C 9.5	3	E		17		
	HOLL	31	2321	2321	2330	N15	W23	6893	10	30.2	9	SF	C 9.5	3	E		16		F
0565		31	2322*	2325*	2351	S08	W60	6898	10	27.5	29	SF					49	1.3	DIJT
	VORO	31	2322	2325	2341	S08	W55	6898	10	27.8	19	SF		2	C	2325	72	1.3	DIJT
	PALE	31	2337	2340	2401	S07	W66	6898	10	27.0	24	SF		3	E		26		

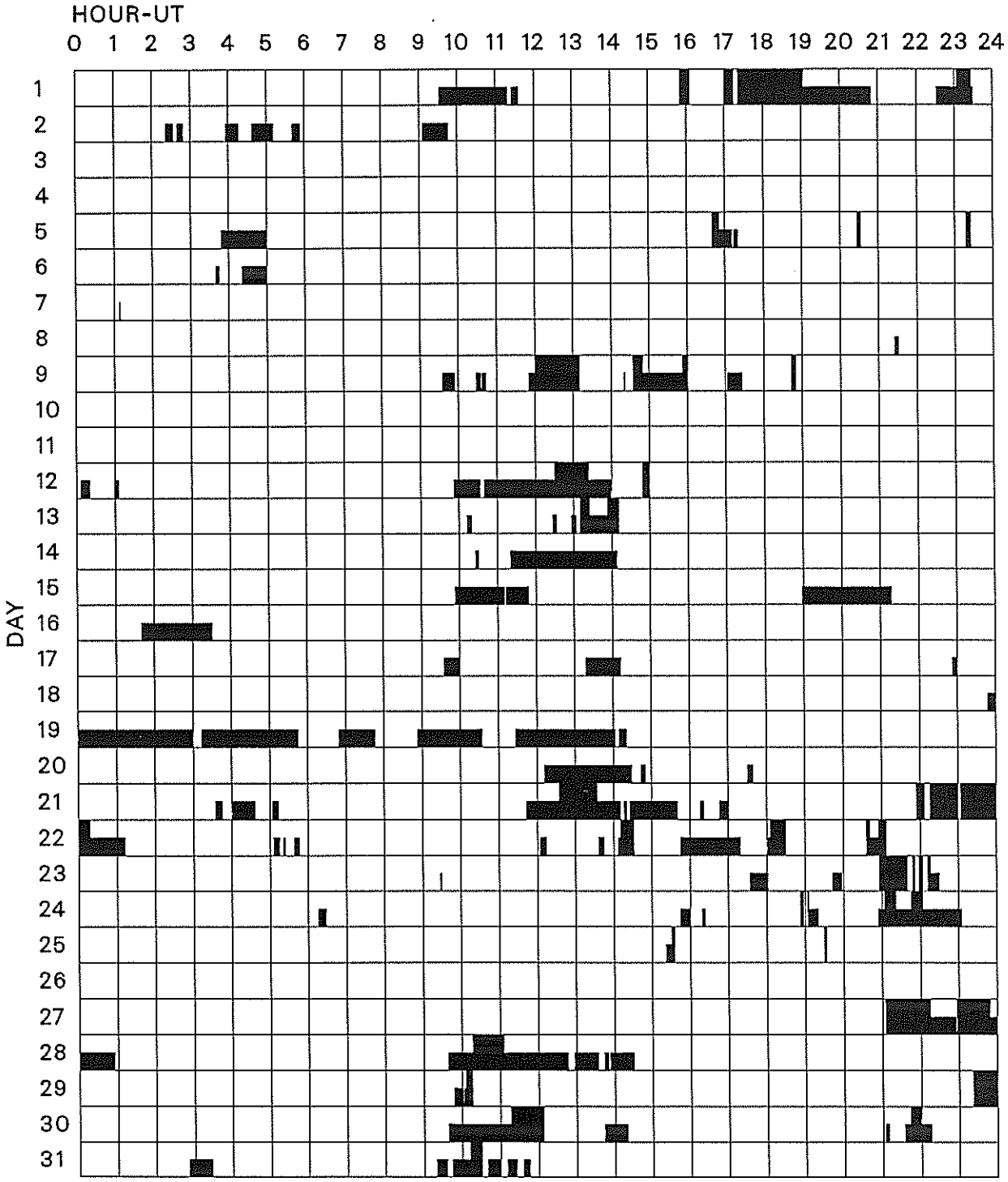
"Remarks"

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

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

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

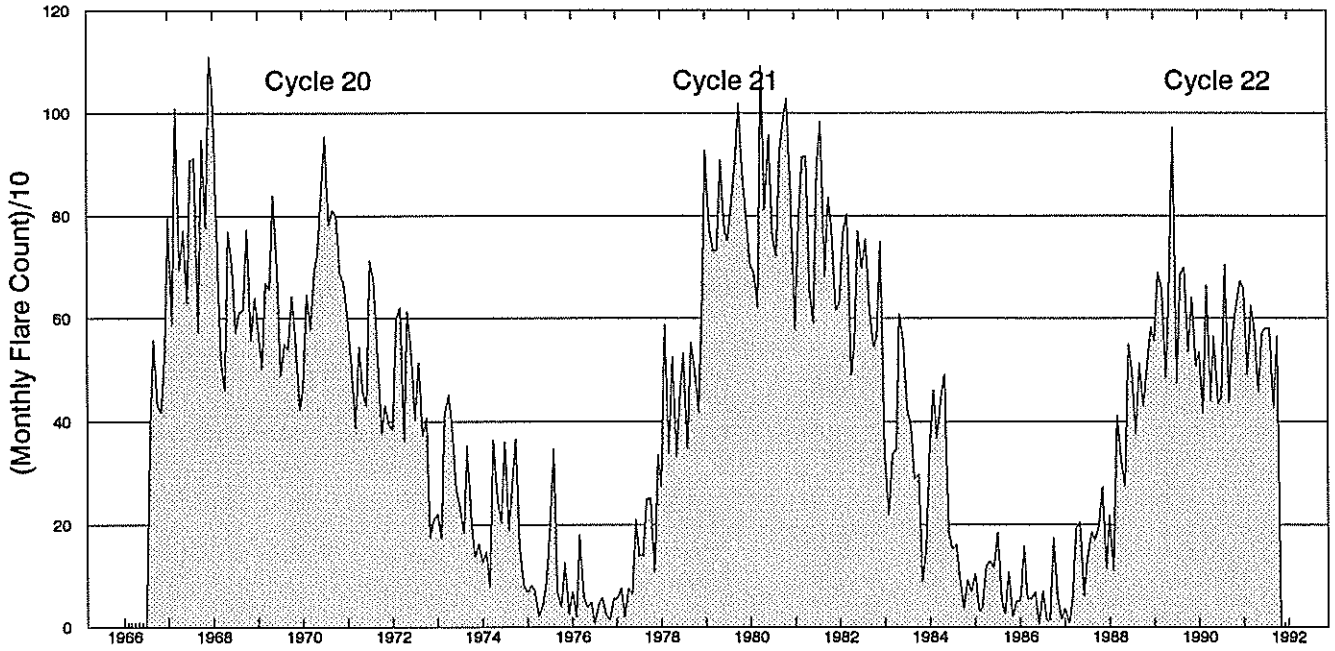
OCTOBER 1991



Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual nor cinematographic); portions of a panel with only the bottom half shaded mark times of only visual patrol.

Abastumani	Istanbul	Learmonth	Peking	Urumqi
Athens	Kandilli	Mitaka	Ramey	Voroshilov
Haute Provence	Kanzelhoehe	Ondrejov	San Vito	Watukosek
Holloman	Kharkov	Palehua	Tashkent	Yunnan

Monthly Counts of Grouped Solar Flares*



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1966	--	--	--	--	--	--	--	391	558	432	417	543	2341
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	508	584	4803
1989	689	539	658	485	686	971	473	684	699	535	640	507	7566
1990	536	415	664	439	565	433	447	703	436	569	619	672	6498
1991	659	491	625	570	458	573	582	581	425	565			5529

*Monthly totals for the last 6 months may change significantly, as more sites submit their reports. The term "grouped" means that observations of the same event by different stations have been 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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	200	GORK	44	NS	0430.0E		510.0D		5.0		
	100	GORK	44	NS	0430.0E		510.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	20.0			
	127	TORN	44	NS	0620.0E		460.0D		7.0		V=2
	260	ONDR	44	NS	0830.0E	1041.0U	380.0D				
	245	SVTO	44	NS	0951.0E	1105.0	150.0D	190.0			QL=2 ST=2 TYP=1
	245	SGMR	44	NS	1200.0E	1305.0	540.0D	630.0			QL=2 ST=1 TYP=1
	235	CUBA	44	NS	1249.0E		431.0D		28.0		
	280	CUBA	44	NS	1500.0E		300.0D		29.0		
	245	PALE	44	NS	1951.0E	2250.0	316.0D	87.0			QL=4 ST=2 TYP=1
	2840	PEKG	5	S	0313.0	0316.2	7.0	15.3			
	245	PALE	8	S	0330.0E	0331.0	1.0D	140.0			QL=2 ST=2 TYP=3
	410	PALE	49	GB	0330.0E	0331.0	1.0D	1100.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	0330.0E	0336.0	8.0D	2100.0			QL=4 ST=2 TYP=7
	4995	PALE	8	S	0332.0E	0332.0	1.0D	24.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0343.0E	0344.0	1.0D	220.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0344.0E	0344.0	U	180.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0400.0E	0400.0	1.0D	64.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0405.0E	0407.0	3.0D	220.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0405.0E	0406.0	2.0D	670.0			QL=4 ST=2 TYP=6
	410	LEAR	4	S/F	0413.0E	0414.0	3.0D	84.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0413.0E	0414.0	3.0D	69.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0414.0E	0414.0	U	37.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0420.0E	0422.0	2.0D	140.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0420.0E	0420.0	2.0D	140.0			QL=4 ST=2 TYP=3
	950	GORK	4	S/F	0433.2	0436.7	4.3	165.0			
	650	GORK	4	S/F	0436.2	0436.6	2.2	200.0			
	950	GORK	4	S/F	0439.0	0442.0	6.3	90.0			
	100	GORK	4	S/F	0439.0	0442.3	3.7	1500.0			
	200	GORK	40	F	0439.0	0441.4	6.0	440.0			
	650	GORK	46	C	0439.2	0442.0	11.3	830.0			
	650	GORK	46	C	0439.2	0449.4		75.0			
	950	GORK	2	S/F	0448.3	0449.5	2.1	15.0			
	100	GORK	42	SER	0454.0	0521.2		850.0			
	100	GORK	42	SER	0454.0	0542.5		1700.0			
	100	GORK	42	SER	0454.0	0542.9	51.0	850.0			
	5900	KISV	2	S/F	0502.9	0504.1	4.6	12.0			
	650	GORK	23	GRF	0505.3	0836.0	245.4	5.0			
	2950	GORK	23	GRF	0517.3	1009.6	411.7	18.0			
	9300	KISV	23	GRF	0525.1	0600.0	75.6	28.0			
	5900	KISV	23	GRF	0525.3	0553.5	92.6	25.0			
	5900	KISV	2	S/F	0525.3	0527.7	9.7	7.0			
	410	SVTO	8	S	0539.0E	0540.0	1.0D	180.0			QL=2 ST=2 TYP=3
	2850	CRIM	30	PBI	0539.8	0543.0	60.0	5.0	2.0		
	2850	CRIM	1	S	0539.8	0541.1	3.0	28.0	9.0		
	650	GORK	4	S/F	0539.8	0544.2	6.0	120.0			
	9300	KISV	47	GB	0539.8	0540.2	2.2	326.0			
	5900	KISV	47	GB	0539.9	0540.4	2.1	346.0			
	4995	SVTO	4	S/F	0540.0E	0540.0	3.0D	170.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0540.0E	0540.0	U	180.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0540.0E	0540.0	1.0D	150.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0540.0E	0540.0	1.0D	39.0			QL=2 ST=2 TYP=3
	2840	PEKG	3	S	0540.0	0541.0	15.0	28.7			
	17000	NOBE	1	S	0540.0	0540.4	2.0	186.0			80, 35GHZ:0
	2950	GORK	1	S	0540.0	0540.8	5.0	25.0			
	950	GORK	4	S/F	0541.2	0543.1	5.2	30.0			
	100	HIRA	46	C	0541.8	0542.0	3.3	780.0	150.0		
	200	HIRA	46	C	0542.1	0542.9	2.0	105.0	50.0		
	610	SVTO	8	S	0544.0E	0544.0	U	45.0			QL=2 ST=2 TYP=3
	950	GORK	4	S/F	0557.0	0600.0	4.8	30.0			
	2840	PEKG	5	S	0557.0	0558.5	6.0	10.2			
	650	GORK	4	S/F	0557.0	0559.9	4.8	320.0			
	2850	CRIM	1	S	0558.8	0559.9	3.1	11.0	3.0		
	610	LEAR	8	S	0559.0E	0559.0	1.0D	180.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0559.0E	0559.0	1.0D	130.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	0559.3	0600.0	1.9	6.0			
	2840	PEKG	45	C	0605.0	0615.7	15.0	120.0			
	650	GORK	47	GB	0607.1	0615.1		3860.0			
	650	GORK	47	GB	0607.1	0611.6	34.9	4090.0			

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	650	GORK	47	GB	0607.1	0635.8		155.0			
	650	GORK	47	GB	0607.1	0625.9		200.0			
	950	GORK	47	GB	0607.9	0615.4		2960.0			
	950	GORK	47	GB	0607.9	0613.6	25.1	4330.0			
	410	LEAR	49	GB	0610.0E	0611.0	6.0D	630.0			QL=4 ST=2 TYP=6
	610	SVTO	49	GB	0610.0E	0611.0	21.0D	1300.0			QL=4 ST=2 TYP=6
	610	LEAR	49	GB	0610.0E	0611.0	31.0D	1700.0			QL=4 ST=2 TYP=6
	5900	KISV	47	GB	0610.2	0612.6	7.0	154.0			
	100	GORK	46	C	0610.6	0611.6	7.4	18700.0			
	100	GORK	46	C	0610.6	0612.7		30900.0			
	2950	GORK	4	S/F	0610.6	0615.9	9.2	100.0			
	33	UPIC	42	SER	0610.7		560.1				
	200	GORK	40	F	0610.8	0611.9	7.2	4000.0			
	200	HIRA	46	C	0610.9	0611.5	5.0	1300.0	200.0		WL
	8800	LEAR	4	S/F	0611.0E	0612.0	6.0D	130.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0611.0E	0611.0	5.0D	590.0			QL=2 ST=2 TYP=6
	4995	LEAR	4	S/F	0611.0E	0612.0	5.0D	99.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0611.0E	0614.0	5.0D	99.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0611.0E	0614.0	5.0D	250.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0611.0E	0611.0	5.0D	700.0			QL=4 ST=2 TYP=6
	8800	SVTO	4	S/F	0611.0E	0612.0	4.0D	140.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0611.0E	0611.0	5.0D	240.0			QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	0611.0E	0614.0	4.0D	220.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0611.0E	0612.0	5.0D	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0611.0E	0614.0	5.0D	110.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	0611.0E	0612.0	4.0D	100.0			QL=4 ST=2 TYP=3
	3013	IZMI	7	C	0611.0	0616.0	10.0	67.0			
	15400	LEAR	4	S/F	0611.0E	0612.0	1069.0D	110.0			QL=4 ST=1 TYP=3
	100	HIRA	46	C	0611.0	0612.2	4.6	4000.0	1000.0		
	204	IZMI	45	C	0611.0	0611.8	7.0	2900.0			
	2850	CRIM	46	C	0611.2	0612.0	6.0	71.0	39.0		
	2850	CRIM	46	C	0611.2	0614.8		105.0			
	2850	CRIM	46	C	0611.2	0616.8		118.0			
	9300	KISV	4	S/F	0611.5	0612.1	5.9	192.0			
	17000	NOBE	2	S/F	0611.7	0612.6	6.0	100.0			80, 35GHZ:0
	100	GORK	42	SER	0618.0	0637.2		730.0			
	100	GORK	42	SER	0618.0	0626.4		850.0			
	100	GORK	42	SER	0618.0	0618.6	20.0	1900.0			
	5900	KISV	2	S/F	0633.5	0634.5	3.7	7.0			
	5900	KISV	2	S/F	0642.0	0644.7	10.1	5.0			
	2840	PEKG	1	S	0727.0	0728.3	4.0	9.2			
	2950	GORK	1	S	0727.7	0728.4	1.7	4.0			
	2850	CRIM	1	S	0727.9	0728.5	1.0	5.2	2.0		
	610	LEAR	8	S	0741.0E	0742.0	1.0D	110.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0753.0E	0754.0	2.0D	94.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0753.0E	0753.0	U	100.0			QL=4 ST=2 TYP=3
	950	GORK	2	S/F	0757.2	0757.5	1.1	12.0			
	950	GORK	23	GRF	0808.3	0921.9	136.4	6.0			
	245	LEAR	8	S	0809.0E	0809.0	U	120.0			QL=2 ST=2 TYP=3
	204	IZMI	7	C	0809.2	0809.4	0.5	1200.0	700.0		
	950	GORK	46	C	0836.6	0849.8		170.0			
	950	GORK	46	C	0836.6	0838.9	18.4	350.0			
	650	GORK	46	C	0837.1	0854.5		245.0			
	650	GORK	46	C	0837.1	0840.5	22.9	40.0			
	650	GORK	46	C	0837.1	0849.8		220.0			
	200	GORK	42	SER	0838.0	0924.0		5500.0			
	200	GORK	42	SER	0838.0	1018.6		2200.0			
	200	GORK	42	SER	0838.0	0919.8		1800.0			
	200	GORK	42	SER	0838.0	0839.8	101.0	880.0			
	245	LEAR	8	S	0839.0E	0839.0	1.0D	120.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0839.0E	0839.0	1.0D	130.0			QL=4 ST=2 TYP=3
	100	GORK	4	S/F	0839.0	0839.6	2.0	3900.0			
	127	TORN	4	S/F	0839.1	0839.4	1.8	1200.0	600.0		
	204	IZMI	7	C	0839.5	0839.6	1.0	380.0			
	100	GORK	42	SER	0845.0	0845.5	36.0	490.0			
	100	GORK	42	SER	0845.0	0919.7		580.0			
	610	LEAR	4	S/F	0847.0E	0849.0	11.0D	120.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0848.0E	0849.0	7.0D	100.0			QL=4 ST=2 TYP=3
	127	TORN	7	C	0848.0	0849.0	1.9	510.0	60.0		

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	950	GORK	4	S/F	0856.9	0857.7	1.7	37.0			
	950	GORK	4	S/F	0902.5	0905.1	4.1	24.0			
	127	TORN	42	SER	0908.0	0931.7	27.5	1200.0	10.0		
	15400	LEAR	8	S	0918.0E	0918.0	1.0D	20.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0918.0E	0919.0	1.0D	14.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0919.0E	0919.0	1.0D	840.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0919.0E	0919.0	1.0D	1000.0			QL=4 ST=2 TYP=6
	204	IZMI	42	SER	0919.3	0924.4	34.0	1500.0			
	15400	LEAR	4	S/F	0922.0E	0923.0	5.0D	26.0			QL=4 ST=2 TYP=3
	650	GORK	4	S/F	0922.5	0923.0	1.9	75.0			
	950	GORK	4	S/F	0922.5	0923.4U	2.0	110.0			
	5900	KISV	4	S/F	0922.5	0923.5	5.5	16.0			
	100	GORK	4	S/F	0922.7	0923.5	2.0	17800.0			
	8800	LEAR	8	S	0923.0E	0923.0	U	17.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0923.0E	0925.0	3.0D	520.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0923.0E	0924.0	1.0D	270.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0923.0E	0924.0	1.0D	340.0			QL=4 ST=2 TYP=3
	9300	KISV	4	S/F	0923.3	0923.5	1.0	24.0			
	410	LEAR	8	S	0924.0E	0925.0	1.0D	73.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0924.0E	0925.0	1.0D	430.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0925.0E	0925.0	U	63.0			QL=2 ST=2 TYP=3
	808	ONDR	41	F	0925.0	1041.0U	325.0				
	536	ONDR	42	SER	0925.0	1041.2	225.0	671.0			
	610	LEAR	49	GB	0930.0E	0934.0	6.0D	4400.0			QL=4 ST=2 TYP=7
	610	SVTO	49	GB	0930.0E	0934.0	5.0D	4400.0			QL=4 ST=2 TYP=7
	3013	IZMI	5	S	0930.0	0932.2	3.0	19.0	10.0		
	9300	KISV	4	S/F	0930.5	0932.2	3.2	35.0			
	5900	KISV	4	S/F	0930.7	0932.2	3.4	28.0			
	950	GORK	47	GB	0930.9	0932.1	5.7	4740.0			
	650	GORK	47	GB	0930.9	0934.5		12930.0			
	650	GORK	47	GB	0930.9	0931.6	5.4	3180.0			
	950	GORK	47	GB	0930.9	0934.6		7320.0			
	2850	CRIM	42	SER	0931.0	0932.0	5.0	6.3	2.0		
	245	LEAR	8	S	0931.0E	0932.0	1.0D	310.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0931.0E	0931.0	1.0D	190.0			QL=4 ST=2 TYP=3
	9500	POTS	4	S/F	0931.0	0932.0	2.5	22.0			
	410	SVTO	8	S	0931.0E	0931.0	1.0D	200.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0931.0E	0932.0	1.0D	360.0			QL=4 ST=2 TYP=3
	1470	POTS	42	SER	0931.0	0934.6	5.6				
	2850	CRIM	42	SER	0931.0	0934.9		6.3			
	100	GORK	4	S/F	0931.1	0931.5	1.2	2400.0			
	3000	POTS	4	S/F	0931.2	0932.0	1.8	9.0			
	2950	GORK	1	S	0931.3	0932.2	1.7	7.0			
	2695	LEAR	8	S	0932.0E	0932.0	U	12.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0932.0E	0932.0	U	21.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0934.0	0935.2	2.0	5.0			
	1415	LEAR	8	S	0942.0E	0942.0	2.0D	100.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0950.0E	0951.0	1.0D	71.0			QL=4 ST=2 TYP=3
	9300	KISV	4	S/F	0952.5	0953.5	5.5	77.0			
	5900	KISV	4	S/F	0952.6	0953.6	6.4	67.0			
	610	LEAR	8	S	0953.0E	0953.0	U	140.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0953.0E	0953.0	1.0D	42.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0953.0E	0953.0	U	28.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0953.0E	0953.0	U	18.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0953.0E	0953.0	U	41.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0953.0E	0953.0	U	67.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0953.0E	0953.0	U	80.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0953.0E	0953.0	U	42.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0953.0E	0953.0	U	43.0			QL=4 ST=2 TYP=3
	1470	POTS	4	S/F	0953.0	0953.6	4.3	42.0			
	2850	CRIM	3	S	0953.1	0953.7	1.8	32.0	10.0		
	650	GORK	41	F	0953.2	1002.5		150.0			
	650	GORK	41	F	0953.2	0953.7	18.0	60.0			
	650	GORK	41	F	0953.2	1008.8		570.0			
	950	GORK	41	F	0953.3	1002.5		10.0			
	2950	GORK	1	S	0953.3	0953.6	1.5	21.0			
	3013	IZMI	5	S	0953.3	0953.6	2.0	20.0	10.0		
	950	GORK	41	F	0953.3	0953.7	16.4	40.0			
	950	GORK	41	F	0953.3	1008.8		355.0			

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	3000	POTS	4	S/F	0953.4U	0954.0U	1.6U	28.0			
	9500	POTS	4	S/F	0953.4	0953.6	1.2	48.0			
	245	LEAR	8	S	0957.0E	0957.0	U	50.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1007.0E	1008.0	3.0D	320.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1018.0E	1018.0	U	170.0			QL=2 ST=2 TYP=3
	100	GORK	42	SER	1018.0	1018.6	11.2	2800.0			
	100	GORK	42	SER	1018.0	1027.8		1200.0			
	127	TORN	47	GB	1018.1	1018.7	1.4	1700.0	320.0		
	650	GORK	47	GB	1018.3	1027.2		6800.0			
	950	GORK	46	C	1018.3	1020.6		43.0			
	950	GORK	46	C	1018.3	1024.8		115.0			
	950	GORK	46	C	1018.3	1019.8	6.4	100.0			
	650	GORK	47	GB	1018.3	1023.9	11.7	2700.0			
	204	IZMI	7	C	1018.5	1018.7	0.6	900.0	450.0		
	610	SVTO	49	GB	1019.0E	1027.0	10.0D	4000.0			QL=4 ST=2 TYP=7
	410	SVTO	8	S	1020.0E	1021.0	1.0D	72.0			QL=2 ST=2 TYP=3
	127	TORN	47	GB	1026.2	1027.7	3.0	400.0	50.0		
	950	GORK	4	S/F	1027.0	1027.3	3.5	510.0			
	5900	KISV	2	S/F	1027.1	1027.4	1.9	8.0			
	650	GORK	47	GB	1038.1	1041.1	40.7	26240.0			
	650	GORK	47	GB	1038.1	1103.5		2600.0			
	650	GORK	47	GB	1038.1	1116.7		10670.0			
	650	GORK	47	GB	1038.1	1053.8		15200.0			
	950	GORK	47	GB	1038.4	1105.3		900.0			
	950	GORK	47	GB	1038.4	1041.5	40.4	15500.0			
	950	GORK	47	GB	1038.4	1116.7		1180.0			
	100	GORK	46	C	1039.0	1041.1	6.0	64500.0			
	100	GORK	46	C	1039.0	1041.3		46200.0			
	200	GORK	46	C	1039.0	1041.4	6.0	7000.0			
	200	GORK	46	C	1039.0	1041.8		8400.0			
	410	SVTO	49	GB	1040.0E	1041.0	3.0D	3100.0			QL=2 ST=2 TYP=6
	610	SVTO	49	GB	1040.0E	1041.0	7.0D	8800.0			QL=4 ST=2 TYP=6
	127	TORN	47	GB	1040.0	1041.0U	7.0	3400.0D	350.0		
	204	IZMI	45	C	1040.0	1040.2	4.0	3300.0			
	3013	IZMI	7	C	1040.0	1041.4	8.5	86.0			
	2950	GORK	4	S/F	1040.3	1041.2	7.7	103.0			
	9500	POTS	40	F	1040.5U	1043.5U	8.0U	149.0			
	3000	POTS	42	SER	1040.8	1041.2	4.7	104.0			
	1470	POTS	40	F	1040.8	1041.5	4.7	163.0			
	2850	CRIM	46	C	1040.9	1041.2	7.0	128.0	42.0		
	2850	CRIM	46	C	1040.9	1043.5		85.0			
	245	SVTO	49	GB	1041.0E	1041.0	2.0D	5400.0			QL=2 ST=2 TYP=6
	610	SVTO	49	GB	1100.0E	1105.0	6.0D	720.0			QL=4 ST=2 TYP=6
	1470	POTS	4	S/F	1103.8	1105.6	3.2	10.0			
	204	IZMI	42	SER	1104.0	1111.0	13.5	300.0			
	100	GORK	46	C	1104.0	1114.1		6700.0			
	9300	KISV	4	S/F	1104.0	1105.5	4.5	31.0			
	2850	CRIM	1	S	1104.0	1105.6	1.8	15.0	5.0		
	100	GORK	46	C	1104.0	1113.7	13.0	5700.0			
	3000	POTS	4	S/F	1104.2	1105.4	2.3	15.0			
	3013	IZMI	5	S	1104.2	1105.7	8.0	15.0	6.0		
	127	TORN	48	C	1104.2	1113.8	12.0	900.0	40.0		
	2950	GORK	2	S/F	1104.5	1105.6	2.1	14.0			
	5900	KISV	4	S/F	1104.6	1105.5	2.1	26.0			
	200	GORK	42	SER	1110.0	1145.6		2400.0			
	200	GORK	42	SER	1110.0	1153.7		1100.0			
	245	SVTO	49	GB	1113.0E	1114.0	1.0D	550.0			QL=2 ST=2 TYP=6
	3000	POTS	4	S/F	1113.8U	1114.2U	0.8D	8.0			
	2950	GORK	1	S	1113.9	1114.2	0.7	5.0			
	610	SVTO	49	GB	1114.0E	1116.0	4.0D	5100.0			QL=4 ST=2 TYP=6
	1470	POTS	4	S/F	1114.5U	1116.0	3.7D	13.0			
	410	SVTO	8	S	1115.0E	1115.0	1.0D	62.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	1115.3	1116.5	2.7	4.0			
	200	GORK	42	SER	1140.0	1141.4	12.0	880.0			
	100	GORK	41	F	1144.5	1156.3		21600.0			
	100	GORK	41	F	1144.5	1145.7	13.0	26800.0			
	100	GORK	41	F	1144.5	1153.8		29700.0			
	204	IZMI	42	SER	1145.4	1145.6	12.0	1000.0			
	5900	KISV	46	C	1145.5	1146.0	3.2	19.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta*	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	9500	POTS	29 PBI	1145.5	1146.0	28.0	19.0			
	950	GORK	41 F	1145.5	1147.1	24.7	150.0			
	950	GORK	41 F	1145.5	1209.5		430.0			
	950	GORK	41 F	1145.5	1156.5		210.0			
	650	GORK	41 F	1145.5	1209.5U		75.0D			
	950	GORK	41 F	1145.5	1148.6		300.0			
	650	GORK	41 F	1145.5	1156.6		970.0			
	5900	KISV	46 C	1145.5	1146.8		13.0			
	650	GORK	41 F	1145.5	1146.9	24.7	400.0			
	9300	KISV	2 S/F	1145.7	1146.0	7.1	23.0			
	610	SVTO	8 S	1146.0E	1146.0	1.0D	130.0			QL=4 ST=2 TYP=3
	127	TORN	47 GB	1153.4	1153.7	3.5	2200.0	110.0		
	610	SVTO	8 S	1155.0E	1156.0	2.0D	310.0			QL=4 ST=2 TYP=3
	950	GORK	23 GRF	1220.5	1251.0	59.0D	5.0			
	100	GORK	4 S/F	1236.0	1237.4	2.5	1200.0			
	950	GORK	41 F	1236.3	1244.0		32.0			
	950	GORK	41 F	1236.3	1241.0		46.0			
	950	GORK	41 F	1236.3	1237.4	8.3	36.0			
	650	GORK	41 F	1239.6	1244.2		70.0			
	650	GORK	41 F	1239.6	1255.3		4540.0			
	650	GORK	41 F	1239.6	1248.5		320.0			
	650	GORK	41 F	1239.6	1302.5		1820.0			
	650	GORK	41 F	1239.6	1240.8U	38.4	75.0			
	950	GORK	47 GB	1251.0	1255.0	18.8	4740.0			
	950	GORK	47 GB	1251.0	1302.4		3660.0			
	5200	BERN	46 C	1252.0	1255.0	21.2	3.9			
	3100	BERN	46 C	1252.4	1301.8	21.1	4.5			
	200	GORK	46 C	1252.5	1302.1		31000.0			
	200	GORK	46 C	1252.5	1301.5	16.5	35000.0			
	6700	CUBA	21 GRF	1253.0E	1448.0	457.0D	31.0			11R SUNRISE, 20
	8400	BERN	46 C	1253.4	1254.9	12.6	4.3			
	6700	CUBA	46 C	1253.5	1255.0	5.5	41.0	15.0		28R
	3000	POTS	42 SER	1253.5U	1302.0	11.5D	46.0			
	100	GORK	46 C	1253.5	1301.4		31600.0			
	100	GORK	46 C	1253.5	1256.8	12.5	7300.0			
	11800	BERN	46 C	1253.7	1255.0	12.5	3.0			
	2950	GORK	46 C	1254.0	1255.0	3.8	19.0			
	8800	SGMR	8 S	1254.0E	1255.0	1.0D	36.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1254.0E	1255.0	3.0D	980.0			QL=2 ST=2 TYP=6
	4995	SGMR	4 S/F	1254.0E	1254.0	3.0D	47.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1254.0E	1256.0	2.0D	810.0			QL=2 ST=2 TYP=6
	9500	POTS	42 SER	1254.0	1302.2	11.0	38.0			
	127	TORN	48 C	1254.0	1255.3	10.0	2900.0	130.0		
	5900	KISV	46 C	1254.1	1255.0	3.9	77.0			
	19600	BERN	46 C	1254.1	1302.4	13.6	1.8			
	5900	KISV	46 C	1254.1	1257.5		40.0			
	9300	KISV	4 S/F	1254.3	1255.0	3.9	78.0			
	2850	CRIM	42 SER	1254.4	1255.1	3.4	20.0	7.0		
	1470	POTS	42 SER	1254.4	1302.2	15.6	175.0			
	2850	CRIM	42 SER	1254.4	1257.4		7.0			
	2850	CRIM	42 SER	1254.4	1256.6		13.0			
	15000	CUBA	2 S/F	1254.8	1255.1	3.2	28.0	14.0		26R
	9500	CUBA	2 S/F	1254.8	1255.2	3.7	24.0	12.0		
	1415	SGMR	8 S	1256.0E	1256.0	U	34.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1300.0E	1301.0	2.0D	11000.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	1300.0E	1301.0	3.0D	8600.0			QL=2 ST=2 TYP=6
	410	SVTO	4 S/F	1300.0E	1300.0	3.0D	220.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	1300.9	1301.7	6.1	45.0			
	4995	SGMR	8 S	1301.0E	1301.0	1.0D	53.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1301.0E	1303.0	3.0D	490.0			QL=2 ST=2 TYP=3
	410	SGMR	4 S/F	1301.0E	1301.0	3.0D	110.0			QL=2 ST=2 TYP=3
	1415	SGMR	4 S/F	1301.0E	1301.0	3.0D	230.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1301.0E	1302.0	2.0D	58.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1301.0E	1302.0	2.0D	67.0			QL=2 ST=2 TYP=3
	610	SVTO	49 GB	1301.0E	1303.0	3.0D	650.0			QL=4 ST=2 TYP=6
	4995	SVTO	8 S	1301.0E	1301.0	1.0D	46.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1301.0E	1301.0	2.0D	220.0			QL=4 ST=2 TYP=3
	9500	CUBA	1 S	1301.0E	1302.2	2.0D	20.0			
	2850	CRIM	3 S	1301.1	1301.7	3.2	60.0	20.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	8800	SGMR	8	S	1302.0E	1302.0	U	32.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1302.0E	1302.0	U	36.0			QL=4 ST=2 TYP=3
	950	GORK	4	S/F	1313.7	1314.0	1.1	70.0			
	610	SVTO	8	S	1345.0E	1345.0	U	170.0			QL=4 ST=2 TYP=3
	610	SVTO	49	GB	1410.0E	1412.0	3.0D	3600.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	1410.0E	1412.0	11.0D	2600.0			QL=2 ST=3 TYP=6
	2695	SGMR	8	S	1412.0E	1412.0	1.0D	33.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1412.0E	1412.0	1.0D	450.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	1412.0E	1412.0	1.0D	63.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1412.0E	1412.0	1.0D	55.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1412.0E	1412.0	1.0D	45.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1412.0E	1412.0	1.0D	35.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1412.0E	1412.0	1.0D	46.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1412.0E	1412.0	1.0D	410.0			QL=2 ST=2 TYP=3
	1470	POTS	4	S/F	1412.0	1412.8	2.8	15.0			
	3000	POTS	4	S/F	1412.4	1412.7	2.6	23.0			
	15000	CUBA	1	S	1412.4	1412.8	3.1	32.0	16.0		30R
	9500	CUBA	1	S	1412.4	1412.8	1.9	32.0	16.0		
	9500	POTS	4	S/F	1412.5	1412.8	2.5	40.0			
	6700	CUBA	1	S	1412.5	1412.9	3.0	37.0	18.0		38R
	610	SGMR	49	GB	1432.0E	1432.0	1.0D	1000.0			QL=2 ST=2 TYP=6
	610	SVTO	49	GB	1432.0E	1432.0	1.0D	1200.0			QL=4 ST=2 TYP=6
	610	SVTO	8	S	1441.0E	1441.0	U	150.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1445.0E	1445.0	U	250.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1445.0E	1445.0	U	250.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1501.0E	1501.0	4.0D	300.0			QL=2 ST=2 TYP=3
	610	SVTO	4	S/F	1501.0E	1501.0	4.0D	350.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	1508.0E	1509.0	1.0D	620.0			QL=2 ST=2 TYP=6
	610	SVTO	49	GB	1508.0E	1509.0	1.0D	720.0			QL=4 ST=2 TYP=6
	6700	CUBA	2	S/F	1508.8	1509.5	7.2	53.0	26.0		23R
	4995	SGMR	8	S	1509.0E	1509.0	U	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1509.0E	1509.0	U	38.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1509.0E	1509.0	U	33.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1509.0E	1509.0	U	100.0			QL=2 ST=2 TYP=3
	9500	CUBA	2	S/F	1509.0	1509.3	7.2	38.0	19.0		
	2800	PENT	3	S	1509.0	1509.5	2.6	20.7	6.0		
	15000	CUBA	4	S/F	1509.1	1514.4	8.3	47.0	12.0		13R
	245	SVTO	49	GB	1512.0E	1512.0	3.0D	1000.0			QL=2 ST=2 TYP=6
	610	SVTO	49	GB	1512.0E	1514.0	3.0D	610.0			QL=4 ST=2 TYP=6
	2800	PENT	4	S/F	1513.0	1514.3	2.8	14.5	4.0		
	610	SGMR	49	GB	1526.0E	1528.0	2.0D	1700.0			QL=2 ST=2 TYP=6
	610	SVTO	49	GB	1526.0E	1528.0	2.0D	2000.0			QL=4 ST=2 TYP=6
	6700	CUBA	1	S	1527.0	1528.0	2.5	12.0	6.0		44R
	9500	CUBA	1	S	1528.0	1528.2	0.5	5.0	2.0		
	6700	CUBA	1	S	1535.9	1536.1	1.0	4.0	2.0		33R
	6700	CUBA	46	C	1553.0	1559.3	7.0U	100.0			7R 1600 DOWN
	15000	CUBA	47	GB	1556.2	1559.0	9.0	637.0			7L
	9500	CUBA	45	C	1556.2	1559.2	9.8	259.0	130.0		
	8800	SGMR	4	S/F	1558.0E	1559.0	5.0D	230.0			QL=4 ST=2 TYP=3
	15400	SGMR	49	GB	1558.0E	1559.0	3.0D	520.0			QL=2 ST=2 TYP=6
	8800	SVTO	4	S/F	1558.0E	1559.0	3.0D	210.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1558.0E	1559.0	2.0D	430.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	1559.0E	1559.0	U	38.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	1559.0E	1559.0	U	30.0			QL=2 ST=2 TYP=3
	9500	CUBA	30	PBI	1606.0		11.0	5.0	2.0		
	610	SGMR	4	S/F	1609.0E	1610.0	3.0D	280.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1609.0E	1610.0	2.0D	69.0			QL=2 ST=2 TYP=3
	6700	CUBA	4	S/F	1609.0	1610.5	8.0	25.0	12.0		31R
	245	SGMR	8	S	1610.0E	1610.0	2.0D	110.0			QL=2 ST=2 TYP=3
	9500	CUBA	2	S/F	1610.0	1610.4	1.8	11.0	5.0		
	15000	CUBA	1	S	1610.2	1610.5	1.6	18.0	9.0		30R
	4995	SGMR	4	S/F	1636.0E	1638.0	3.0D	30.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1636.0E	1638.0	4.0D	98.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1637.0E	1638.0	2.0D	450.0			QL=2 ST=2 TYP=3
	15000	CUBA	1	S	1637.8	1638.1	2.4	62.0	31.0		8R
	8800	SGMR	4	S/F	1638.0E	1638.0	5.0D	49.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1638.0E	1638.0	1.0D	33.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	1638.0	1638.2	3.0	46.0	23.0		
	6700	CUBA	1	S	1638.0	1638.5	3.0	39.0	19.0		29R

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	2800	PENT	3	S	1804.0	1805.6	5.1	12.0	4.0		
	9500	CUBA	2	S/F	1804.5	1805.5	5.5	48.0	24.0		
	8800	SGMR	8	S	1805.0E	1805.0	1.0D	58.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1805.0E	1805.0	U	30.0			QL=2 ST=2 TYP=3
	4995	SGMR	8	S	1805.0E	1805.0	U	44.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	1805.0E	1805.4	3.0D	40.0	20.0		13L
	6700	CUBA	1	S	1805.0E	1805.7	4.0D	51.0			19R
	6700	CUBA	1	S	1914.5	1915.0	2.0	8.0	4.0		8R
	15000	CUBA	2	S/F	1918.3	1922.4	6.7	32.0	14.0		15L
	6700	CUBA	1	S	1918.5	1919.3	2.0	12.0	6.0		11R
	9500	CUBA	1	S	1919.0	1919.3	0.7	14.0	7.0		
	6700	CUBA	1	S	1928.8	1930.9	3.2	7.0	3.0		14R
	6700	CUBA	1	S	1928.9	1937.7		11.0	5.0		00R
	2800	PENT	3	S	2227.8	2228.8	3.2	178.2	53.0		
	2695	LEAR	8	S	2228.0E	2228.0	1.0D	130.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	2228.0E	2228.0	2.0D	390.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	2228.0E	2228.0	1.0D	94.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2228.0E	2228.0	1.0D	94.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	2228.0E	2228.0	1.0D	230.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	2228.0E	2228.0	1.0D	72.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	2228.3	2228.8	2.0	119.0			
	35000	NOBE	1	S	2228.3	2228.8	2.0	40.0			80GHZ:0
	2800	PENT	29	PBI	2231.0	2231.0	8.5	6.5	3.0		
	610	LEAR	8	S	2248.0E	2248.0	U	200.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	2248.0E	2248.0	1.0D	36.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	2248.0E	2248.0	1.0D	37.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	2248.0E	2248.0	1.0D	28.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2248.0E	2248.0	U	32.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	2248.0E	2248.0	1.0D	42.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2248.0E	2248.0	1.0D	33.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2248.0E	2248.0	U	58.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2248.0E	2248.0	1.0D	45.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2248.0E	2248.0	1.0D	44.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	2248.0E	2248.0	U	510.0			QL=4 ST=2 TYP=6
	2695	PALE	8	S	2248.0E	2248.0	1.0D	47.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	2248.2	2248.6	4.4	46.8	14.0		
	17000	NOBE	1	S	2248.4	2248.6	1.0	44.0			80, 35GHZ:0
	610	LEAR	8	S	2249.0E	2250.0	1.0D	26.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2249.0E	2250.0	1.0D	43.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2250.0E	2250.0	2.0D	78.0			QL=2 ST=2 TYP=3
	2800	PENT	3	S	2256.0	2256.2	2.4	20.3	6.0		
	2800	PENT	3	S	2314.2	2314.8	2.2	15.2	4.0		
	245	LEAR	8	S	2334.0E	2334.0	U	34.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2334.0E	2335.0	1.0D	210.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2352.0E	2352.0	1.0D	56.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	2353.0E	2353.0	1.0D	12.0			QL=4 ST=2 TYP=3
02	200	HIRA	44	NS	0000.0E	0214.0	480.0D	50.0	20.0		WR
	200	GORK	44	NS	0430.0E		510.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	15.0			
	100	GORK	43	NS	0600.0		420.0		5.0		
	245	LEAR	44	NS	0656.0E	0703.0	8.0D	95.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0830.0E		50.0D				V=1,DISTURBED
	260	ONDR	44	NS	0830.0E	0833.0	380.0D				
	235	CUBA	44	NS	1344.0E		371.0D		19.0		
	280	CUBA	44	NS	1607.0E		228.0D		28.0		
	610	LEAR	49	GB	0021.0E	0022.0	1.0D	630.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	0021.0E	0022.0	1.0D	780.0			QL=4 ST=2 TYP=6
	1415	LEAR	8	S	0022.0E	0022.0	U	36.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0022.0E	0022.0	U	27.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0022.0E	0022.0	U	13.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	0022.0	0022.4	1.1	24.0	7.0		
	2840	PEKG	45	C	0053.0	0059.2	10.0	34.5			
	15400	LEAR	8	S	0124.0E	0125.0	1.0D	57.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0124.0E	0125.0	3.0D	99.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0124.0E	0125.0	1.0D	430.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0124.0E	0125.0	4.0D	140.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0124.0E	0125.0	3.0D	120.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	0124.0E	0125.0	1.0D	500.0			QL=4 ST=2 TYP=6

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
02	4995	PALE	4	S/F	0124.0E	0125.0	3.0D	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	4	S/F	0124.0	0125.4	20.0	140.2			
	17000	NOBE	2	S/F	0124.8	0125.1	1.0	45.0			80, 35GHZ:0
	1415	LEAR	4	S/F	0125.0E	0125.0	3.0D	76.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0125.0E	0125.0	U	53.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0125.0E	0125.0	1355.0D	360.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0220.0E	0220.0	U	55.0			QL=2 ST=2 TYP=3
	17000	NOBE	1	S	0333.2	0333.5	1.5	18.0			80, 35GHZ:0
	410	LEAR	49	GB	0334.0E	0334.0	1.0D	1900.0			QL=4 ST=2 TYP=6
	610	LEAR	8	S	0335.0E	0335.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0335.0E	0335.0	U	170.0			QL=2 ST=2 TYP=3
	9100	GORK	23	GRF	0418.0E	0949.1	414.0U	29.0			
	410	LEAR	8	S	0450.0E	0450.0	U	230.0			QL=4 ST=2 TYP=3
	2950	GORK	20	GRF	0512.2	0523.7	57.6	9.0			
	5900	KISV	21	GRF	0512.6	0520.3	41.2	22.0			
	2840	PEKG	22	GRF	0513.0	0524.8	38.0	10.3			
	9300	KISV	21	GRF	0513.7	0520.6	52.3	26.0			
	410	LEAR	49	GB	0541.0E	0542.0	4.0D	730.0			QL=4 ST=3 TYP=6
	410	LEAR	4	S/F	0558.0E	0558.0	3.0D	77.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	0601.0	0602.3	2.6	15.0			
	2950	GORK	21	GRF	0642.0	0940.0	361.1	22.0			
	5900	KISV	2	S/F	0646.0	0647.8	3.4	12.0			
	950	GORK	20	GRF	0658.4	0659.0	6.9	4.0			
	200	GORK	8	S	0703.6	0703.8	0.5	400.0			
	200	GORK	8	S	0716.8	0716.9	0.3	1200.0			
	204	IZMI	8	S	0716.8	0716.9	0.1	350.0	170.0		
	2850	CRIM	1	S	0726.0	0727.0	1.7	22.0	7.0		
	2840	PEKG	5	S	0726.0E	0727.0	2.0D	21.9			
	9300	KISV	4	S/F	0726.2	0727.1	1.9	28.0			
	9100	GORK	3	S	0726.3	0727.0	1.8	18.0			
	3013	IZMI	1	S	0726.4	0727.0	1.5	10.0	5.0		
	2950	GORK	1	S	0726.5	0727.0	1.3	18.0			
	5900	KISV	4	S/F	0726.6	0726.9	1.4	22.0			
	5900	KISV	4	S/F	0734.4	0734.6	2.2	16.0			
	9300	KISV	2	S/F	0734.4	0734.8	2.7	16.0			
	410	LEAR	8	S	0739.0E	0739.0	1.0D	58.0			QL=4 ST=2 TYP=3
	204	IZMI	5	S	0820.2	0820.2	0.2	100.0	50.0		
	950	GORK	45	C	0822.0	0824.3		5.0			
	950	GORK	45	C	0822.0	0823.7	3.8	4.0			
	33	UPIC	3	S	0822.3	0822.5	0.7				
	245	LEAR	8	S	0833.0E	0833.0	1.0D	270.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0833.0E	0833.0	1.0D	310.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0833.5	0833.7	0.8	300.0			
	200	GORK	8	S	0833.6	0833.7	0.8	600.0			
	11800	BERN	4	S/F	0843.4	0849.5	16.3U	6.7			
	19600	BERN	3	S	0845.0	0849.5	6.8	4.7			
	8400	BERN	4	S/F	0846.0	0849.4	13.8U	3.4			
	5200	BERN	3	S	0846.8	0849.5	12.4	1.5			
	5900	KISV	45	C	0848.3	0850.0		27.0			
	5900	KISV	45	C	0848.3	0849.5	8.1	27.0			
	9300	KISV	45	C	0848.6	0850.0		35.0			
	9300	KISV	45	C	0848.6	0849.6	5.9	50.0			
	9100	GORK	2	S/F	0848.9	0849.5	2.2	46.0			
	15400	SVTO	8	S	0849.0E	0849.0	1.0D	61.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0849.0E	0849.0	U	45.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	0849.0E	0849.0	1.0D	28.0			QL=2 ST=2 TYP=3
	204	IZMI	41	F	0859.8	0902.0	5.2	170.0			
	15400	LEAR	8	S	0921.0E	0922.0	1.0D	23.0			QL=4 ST=2 TYP=3
	536	ONDR	42	SER	0922.5	0925.0	6.0	210.0			
	200	GORK	41	F	0922.6	0923.3	7.4	1600.0			
	200	GORK	41	F	0922.6	0928.7		1630.0			
	245	LEAR	49	GB	0923.0E	0923.0	2.0D	730.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0923.0E	0923.0	2.0D	940.0			QL=4 ST=2 TYP=6
	204	IZMI	41	F	0923.0	0923.5	7.4	1500.0			
	100	GORK	4	S/F	0923.0	0923.8	1.8	60.0			
	2695	LEAR	8	S	0926.0E	0927.0	1.0D	13.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0928.0E	0928.0	1.0D	1300.0			QL=2 ST=2 TYP=6
	410	LEAR	8	S	0928.0E	0928.0	U	95.0			QL=4 ST=2 TYP=3
	650	GORK	41	F	0928.5	0929.3		19.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
02	950	GORK	41	F	0928.5	0929.3		4.0			
	650	GORK	41	F	0928.5	0928.6	1.5	45.0			
	950	GORK	41	F	0928.5	0928.6	1.5	16.0			
	950	GORK	41	F	0928.5	0929.9		3.0			
	650	GORK	41	F	0928.5	0929.9		40.0			
	5900	KISV	2	S/F	1030.3	1030.4	1.0	12.0			
	200	GORK	8	S	1105.4	1105.6	0.3	1630.0			
	204	IZMI	8	S	1105.5	1105.6	0.2	2500.0	1125.0		
	3000	POTS	23	GRF	1202.0U	1214.8U	17.0U	35.0			
	2950	GORK	1	S	1203.1	1204.0	1.3	5.0			
	245	SGMR	49	GB	1213.0E	1214.0	3.0D	830.0			QL=2 ST=2 TYP=6
	610	SGMR	4	S/F	1214.0E	1214.0	3.0D	70.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1214.0E	1214.0	U	90.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1214.0E	1214.0	U	900.0			QL=4 ST=2 TYP=6
	5900	KISV	2	S/F	1214.1	1215.1	3.0	10.0			
	245	SGMR	8	S	1354.0E	1354.0	U	200.0			QL=2 ST=2 TYP=3
	6700	CUBA	21	GRF	1400.0E	1850.0	366.0D	16.0			OOR
	410	SGMR	8	S	1403.0E	1403.0	1.0D	270.0			QL=2 ST=2 TYP=3
	15000	CUBA	1	S	1543.3	1544.0	1.6	41.0	20.0		11L
	6700	CUBA	1	S	1547.9	1548.5	1.7	8.0	4.0		11L
	6700	CUBA	40	F	1655.0	1656.0	2.0	3.0	1.0		51L
	6700	CUBA	1	S	1658.4	1659.2	1.5	3.0	1.0		OOR
	9500	CUBA	1	S	1703.8	1704.3	1.8	15.0	7.0		
	6700	CUBA	40	F	1720.0	1726.0	7.0	3.0	1.0		OOR
	6700	CUBA	40	F	1733.0	1737.0	11.0	6.0	3.0		OOR
	245	PALE	8	S	1757.0E	1757.0	1.0D	140.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1808.0	1808.8	3.0	19.0	9.0		22R
	9500	CUBA	1	S	1808.2	1808.5	0.7	13.0	6.0		
	6700	CUBA	4	S/F	1814.8	1816.1	8.2	19.0	7.0		29R
	245	PALE	8	S	1817.0E	1818.0	2.0D	91.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1818.0E	1818.0	U	92.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1818.0E	1818.0	U	80.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1818.0E	1818.0	U	94.0			QL=2 ST=2 TYP=3
	6700	CUBA	2	S/F	1832.9	1834.5	2.6	7.0	3.0		OOR
	410	SGMR	8	S	1841.0E	1843.0	2.0D	58.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	1842.0E	1843.0	1.0D	94.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1843.1	1844.1	2.4	6.0	3.0		OOR
	410	PALE	8	S	2121.0E	2122.0	1.0D	67.0			QL=4 ST=2 TYP=3
03	200	HIRA	43	NS	0337.0	0512.0	165.0	80.0	30.0		MR
	200	GORK	44	NS	0430.0E		510.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	15.0			
	245	LEAR	44	NS	0643.0E	0643.0	35.0D	68.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0820.0E		370.0D		2.0		V=1
	260	ONDR	44	NS	0830.0E	1015.0	380.0D	65.0			
	235	CUBA	44	NS	1348.0E		398.0D		20.0		
	280	CUBA	44	NS	1620.0E		270.0D		29.0		
	200	HIRA	44	NS	2050.0E	0657.0	670.0D	50.0	20.0		MR
	245	LEAR	8	S	0005.0E	0005.0	1.0D	79.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0139.0	0142.0	12.0	42.3			
	4995	LEAR	4	S/F	0140.0E	0141.0	13.0D	57.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0140.0E	0141.0	10.0D	63.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0141.0E	0142.0	1.0D	21.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0141.0E	0141.0	3.0D	50.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0141.0E	0141.0	5.0D	62.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0141.0E	0141.0	1.0D	29.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0141.0E	0141.0	13.0D	32.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0145.0E	0145.0	U	14.0			QL=4 ST=2 TYP=3
	2840	PEKG	20	GRF	0251.0	0256.8	38.0	7.2			
	245	PALE	8	S	0339.0E	0339.0	U	50.0			QL=4 ST=2 TYP=3
	9100	GORK	23	GRF	0421.0E	0622.4	519.0D	51.0			
	2950	GORK	21	GRF	0430.0E	0624.3	462.0D	26.0			
	650	GORK	21	GRF	0440.1	0458.7	221.5	9.0			
	2840	PEKG	21	GRF	0457.0	0544.0	52.0	17.0			
	5900	KISV	20	GRF	0503.5	0525.1	36.8	9.0			
	9300	KISV	20	GRF	0517.2	0523.5	14.4	10.0			
	410	SVTO	8	S	0542.0E	0543.0	2.0D	100.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0543.0E	0544.0	1.0D	67.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0543.0E	0544.0	1.0D	97.0			QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
03	245	LEAR	8	S	0543.0E	0544.0	1.0D	33.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0543.0E	0544.0	1.0D	60.0			QL=4 ST=2 TYP=3
	9300	KISV	23	GRF	0550.9	0622.4	126.0	41.0			
	2840	PEKG	45	C	0553.0	0556.9	6.0	8.8			
	2840	PEKG	1	S	0559.0	0600.2	2.0	5.2			
	2840	PEKG	45	C	0602.0	0605.3	5.0	21.6			
	5900	KISV	23	GRF	0602.1	0622.6	66.4	25.0			
	9300	KISV	2	S/F	0602.2	0604.7	8.9	17.0			
	9100	GORK	2	S/F	0603.8	0604.7	2.2	20.0			
	5900	KISV	4	S/F	0603.9	0605.0	2.4	25.0			
	2950	GORK	2	S/F	0603.9	0604.7	2.1	12.0			
	5900	KISV	2	S/F	0606.6	0608.0	4.5	11.0			
	2840	PEKG	23	GRF	0607.0	0637.8	78.0	12.9			
	245	LEAR	8	S	0619.0E	0619.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0619.0E	0620.0	1.0D	120.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0620.0E	0620.0	U	17.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0620.0E	0621.0	1.0D	18.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0623.0E	0624.0	1.0D	51.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0623.0E	0624.0	1.0D	51.0			QL=4 ST=2 TYP=3
	5900	KISV	4	S/F	0636.7	0637.3	3.6	21.0			
	245	LEAR	8	S	0637.0E	0637.0	2.0D	55.0			QL=4 ST=2 TYP=3
	9100	GORK	3	S	0637.2	0637.4	0.6	24.0			
	2950	GORK	1	S	0637.2	0637.5	0.6	4.0			
	9300	KISV	4	S/F	0637.3	0637.4	1.1	32.0			
	5900	KISV	2	S/F	0641.8	0641.9	4.3	8.0			
	204	IZMI	5	S	0643.4	0643.5	0.3	300.0	150.0		
	3000	POTS	29	PBI	0725.0	0731.0	25.3	11.0			
	2840	PEKG	20	GRF	0725.0	0730.7	12.0	9.3			
	5900	KISV	2	S/F	0725.6	0731.4	9.2	12.0			
	1470	POTS	4	S/F	0727.0	0730.0	6.7	8.0			
	650	GORK	2	S/F	0729.0	0730.4	2.8	5.0			
	3013	IZMI	5	S	0729.0	0731.5	7.0	6.0	3.0		
	2950	GORK	1	S	0729.7	0730.9	2.8	6.0			
	245	LEAR	8	S	0735.0E	0735.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0743.0E	0743.0	U	150.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0743.5	0743.7	1.0	420.0			
	9100	GORK	46	C	0745.4	0746.2	5.6	10.0			
	9100	GORK	46	C	0745.4	0747.3		18.0			
	9300	KISV	2	S/F	0745.5	0747.2	3.6	12.0			
	5900	KISV	2	S/F	0745.5	0747.3	2.3	11.0			
	2950	GORK	1	S	0747.0	0747.3	1.0	3.0			
	11800	BERN	4	S/F	0807.8	0813.0	23.0U	1.8			
	9300	KISV	20	GRF	0812.6	0815.2	12.0	10.0			
	11800	BERN	46	C	0837.4	0852.1	25.7	2.2			
	9300	KISV	2	S/F	0839.6	0840.1	2.9	14.0			
	9100	GORK	1	S	0840.0	0840.4	0.9	10.0			
	19600	BERN	46	C	0841.7	0850.6	15.0	1.8			
	5200	BERN	3	S	0846.6	0852.2	14.6	2.3			
	3100	BERN	3	S	0847.2	0852.2	13.6	0.6			
	8400	BERN	3	S	0848.2	0852.1	18.4	3.5			
	950	GORK	2	S/F	0850.1	0850.9	1.4	8.0			
	9500	POTS	4	S/F	0851.0	0852.0	4.4	22.0			
	5900	KISV	4	S/F	0851.0	0852.1	5.5	32.0			
	3013	IZMI	1	S	0851.7	0852.1	1.0	6.0	3.0		
	2950	GORK	1	S	0852.0	0852.3	0.6	4.0			
	9100	GORK	2	S/F	0852.2	0852.2	1.3	29.0			
	11800	BERN	3	S	0914.7	0924.1	21.2U	2.0			
	15400	LEAR	8	S	0923.0E	0924.0	2.0D	70.0			QL=4 ST=2 TYP=3
	19600	BERN	3	S	0923.2	0924.0	5.3	6.0			
	8400	BERN	3	S	0923.2	0924.1	1.6	0.6			
	35000	BERN	3	S	0923.3	0924.0	2.3	4.4			
	50000	BERN	3	S	0923.5	0924.0	3.0	5.4			
	3000	POTS	4	S/F	0947.0	0947.6	2.0	10.0			
	9300	KISV	22	GRF	1002.8	1009.3	18.1	33.0			
	9100	GORK	46	C	1003.0	1009.3		33.0			
	9100	GORK	46	C	1003.0	1003.7	10.1	10.0			
	5900	KISV	22	GRF	1005.5		17.0	15.0			
	9500	POTS	4	S/F	1007.6	1009.1	6.8	32.0			
	5900	KISV	4	S/F	1131.3	1133.2	5.4	22.0			

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03	9300	KISV	4	S/F	1131.7	1133.2	5.0	33.0			
	9500	POTS	4	S/F	1132.2	1133.3	6.4	32.0			
	9100	GORK	2	S/F	1132.5	1133.2	3.7	32.0			
	950	GORK	4	S/F	1215.3	1215.4	0.4	25.0			
	9500	POTS	20	GRF	1305.5	1316.6	43.1	28.0			
	2800	PENT	24	R	1647.0	1920.0		15.2			
	245	PALE	8	S	1720.0E	1720.0	U	69.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	1813.9	1814.0	1.5	11.7	3.0		
	2800	PENT	3	S	2031.6	2036.2	10.3	49.6	10.0		
	1415	SGMR	8	S	2033.0E	2033.0	1.0D	46.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2034.0E	2036.0	7.0D	25.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2034.0E	2036.0	6.0D	51.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2034.0E	2036.0	6.0D	49.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2036.0E	2036.0	U	26.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2037.0E	2039.0	4.0D	110.0			QL=2 ST=2 TYP=3
	610	PALE	8	S	2038.0E	2039.0	2.0D	130.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2038.0E	2038.0	1.0D	55.0			QL=2 ST=2 TYP=3
04	100	GORK	44	NS	0430.0E		510.0D		5.0		
	200	GORK	44	NS	0430.0E		510.0D		15.0		
	204	IZMI	43	NS	0600.0		360.0	80.0			
	127	TORN	44	NS	0620.0E	1157.0	520.0D	200.0	3.0		V=2
	245	SVTO	44	NS	0803.0E	1325.0U	483.0D	150.0			QL=2 ST=2 TYP=1
	260	ONDR	44	NS	0830.0E	0957.5	380.0D	57.0			
	245	LEAR	44	NS	0931.0E	0948.0	35.0D	190.0			QL=4 ST=2 TYP=1
	245	SGMR	44	NS	1251.0E	1921.0	489.0D	280.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1400.0E		407.0D		34.0		
	245	PALE	43	NS	1646.0	1701.0	675.0	300.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1700.0E		227.0D		45.0		
	200	HIRA	44	NS	2050.0E	0133.0	670.0D	150.0	70.0		SR
	245	LEAR	44	NS	2232.0E	0046.0	557.0D	250.0			QL=4 ST=2 TYP=1
	15400	LEAR	8	S	0009.0E	0009.0	1.0D	54.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0009.0E	0009.0	1.0D	54.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	0009.0E	0009.0	1.0D	21.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	0009.2	0009.7	2.0	48.0			80, 35GHZ:0
	2800	PENT	3	S	0043.9	0044.9	3.8	113.3	35.0		
	15400	LEAR	8	S	0044.0E	0045.0	1.0D	34.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0044.0E	0045.0	2.0D	120.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0044.0E	0045.0	2.0D	140.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0044.0E	0044.0	2.0D	80.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0046.0	0050.4	12.0	150.0			
	2840	PEKG	5	S	0103.0	0103.7	6.0	24.6			
	2840	PEKG	1	S	0242.0	0244.7	6.0	6.1			
	2950	GORK	22	GRF	0612.8	0620.1	14.9	5.0			
	650	GORK	20	GRF	0631.0E	0654.0	109.3D	8.0			
	245	LEAR	8	S	0633.0E	0634.0	1.0D	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0634.0E	0634.0	U	83.0			QL=4 ST=2 TYP=3
	9100	GORK	22	GRF	0652.3	0655.1	46.1U	8.0			
	5900	KISV	22	GRF	0653.0	0655.4	53.7	13.0			
	2950	GORK	21	GRF	0653.0	0946.5	299.7	20.0			
	9300	KISV	22	GRF	0653.8	0655.4	50.0	11.0			
	2850	CRIM	1	S	0654.0	0655.8	4.5	6.0	2.0		
	2840	PEKG	1	S	0752.0	0755.0	7.0	6.1			
	200	GORK	4	S/F	0800.0	0802.0	4.0	1400.0			
	204	IZMI	7	C	0805.7	0806.0	0.8	200.0			
	245	LEAR	8	S	0828.0E	0829.0	1.0D	82.0			QL=4 ST=2 TYP=3
	204	IZMI	24	R	0840.0		110.0	100.0			
	9100	GORK	23	GRF	0846.9	0945.5	208.1U	30.0			
	9100	GORK	2	S/F	0846.9	0850.8	5.8	28.0			
	5900	KISV	46	C	0847.0	0850.0		24.0			
	5900	KISV	46	C	0847.0	0850.8	9.1	29.0			
	9300	KISV	2	S/F	0847.6	0850.7	5.4	23.0			
	3000	POTS	2	S/F	0849.2	0850.1	2.8	6.0			
	2950	GORK	2	S/F	0849.5	0850.0	3.1	6.0			
	9500	POTS	4	S/F	0849.5	0850.6	2.7	23.0			
	245	LEAR	8	S	0850.0E	0851.0	2.0D	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0850.0E	0850.0	1.0D	29.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0850.0E	0851.0	2.0D	140.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	0850.0E	0850.0	1.0D	24.0			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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
04	245	LEAR	8	S	0858.0E	0859.0	1.0D	62.0			QL=4 ST=3 TYP=3
	245	LEAR	8	S	0910.0E	0911.0	1.0D	68.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0923.0E	0923.0	2.0D	63.0			QL=4 ST=2 TYP=3
	650	GORK	23	GRF	0927.0	1027.8	173.3	8.0			
	3000	POTS	29	PBI	0928.7	0942.6	41.3	33.0			
	5900	KISV	22	GRF	0931.3	0944.5	113.3	53.0			
┌	3013	IZMI	21	GRF	0931.8	0937.0	15.0	13.0			
└	2850	CRIM	7	C	0932.0	0937.0	14.0	23.0	15.0		
┌	2850	CRIM	29	PBI	0932.0	0946.0	30.0	14.0	5.0		
├	2850	CRIM	7	C	0932.0	0944.5		44.0			
├	2850	CRIM	7	C	0932.0	0942.6		37.0			
├	9300	KISV	22	GRF	0932.3	0944.5	116.0	44.0			
├	9500	POTS	20	GRF	0932.6	0943.0	37.2	29.0			
├	2950	GORK	46	C	0932.7	0943.8	13.3	28.0			
├	9100	GORK	22	GRF	0933.0	0934.4	12.0	14.0			
├	2695	SVTO	4	S/F	0942.0E	0944.0	10.0D	43.0			QL=2 ST=2 TYP=3
├	4995	SVTO	4	S/F	0942.0E	0944.0	10.0D	47.0			QL=4 ST=2 TYP=3
└	3013	IZMI	41	F	0942.5	0943.9	3.0	13.0			
┌	15400	SVTO	4	S/F	0945.0E	0948.0	7.0D	25.0			QL=4 ST=2 TYP=3
├	245	SVTO	4	S/F	0945.0E	0948.0	7.0D	200.0			QL=2 ST=2 TYP=5
└	8800	SVTO	4	S/F	0946.0E	0947.0	6.0D	21.0			QL=4 ST=2 TYP=3
	650	GORK	4	S/F	1215.3	1215.5	0.5	128.0			
	245	SGMR	8	S	1232.0E	1232.0	1.0D	50.0			QL=2 ST=2 TYP=3
┌	9500	CUBA	20	GRF	1351.0	1353.0	32.0	15.0	7.0		
└	9500	POTS	20	GRF	1351.6	1352.5	28.4	16.0			
┌	245	SGMR	8	S	1417.0E	1419.0	2.0D	110.0			QL=2 ST=2 TYP=3
├	410	SGMR	8	S	1418.0E	1419.0	1.0D	110.0			QL=2 ST=2 TYP=3
├	245	SVTO	8	S	1418.0E	1419.0	1.0D	120.0			QL=2 ST=2 TYP=3
└	410	SVTO	4	S/F	1418.0E	1419.0	582.0D	99.0			QL=4 ST=1 TYP=3
	245	SGMR	8	S	1701.0E	1701.0	U	230.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	1716.2	1716.7	1.8	7.0	3.0		
	410	PALE	8	S	1829.0E	1829.0	U	71.0			QL=4 ST=2 TYP=3
┌	245	SGMR	8	S	1832.0E	1833.0	1.0D	320.0			QL=2 ST=2 TYP=3
└	245	PALE	8	S	1833.0E	1833.0	U	410.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1856.0	1910.0	86.0	10.0	5.0		
┌	8800	PALE	8	S	1859.0E	1900.0	2.0D	36.0			QL=4 ST=2 TYP=3
├	2800	PENT	3	S	1859.8	1900.9	7.2	15.5	5.0		
├	610	PALE	8	S	1900.0E	1900.0	U	120.0			QL=4 ST=2 TYP=3
├	1415	PALE	8	S	1900.0E	1900.0	U	29.0			QL=4 ST=2 TYP=3
├	4995	PALE	8	S	1900.0E	1900.0	U	23.0			QL=4 ST=2 TYP=3
├	410	PALE	8	S	1900.0E	1900.0	U	77.0			QL=4 ST=2 TYP=3
├	610	SGMR	8	S	1900.0E	1900.0	U	100.0			QL=2 ST=2 TYP=3
├	1415	SGMR	8	S	1900.0E	1900.0	U	31.0			QL=4 ST=2 TYP=3
└	9500	CUBA	2	S/F	1900.0	1900.3	1.8	21.0	10.0		
┌	245	PALE	8	S	1914.0E	1914.0	1.0D	120.0			QL=4 ST=2 TYP=3
├	4995	PALE	8	S	1914.0E	1914.0	1.0D	15.0			QL=4 ST=2 TYP=3
├	1415	PALE	8	S	1914.0E	1915.0	1.0D	24.0			QL=4 ST=2 TYP=3
├	610	PALE	8	S	1914.0E	1915.0	1.0D	80.0			QL=4 ST=2 TYP=3
├	410	PALE	8	S	1914.0E	1915.0	1.0D	21.0			QL=4 ST=2 TYP=3
├	2695	PALE	4	S/F	1914.0E	1916.0	3.0D	7.0			QL=4 ST=2 TYP=3
└	9500	CUBA	1	S	1914.6	1915.0	1.2	9.0	4.0		
┌	9500	CUBA	46	C	1920.5	1926.5	20.5	109.0	28.0		
├	245	PALE	8	S	1921.0E	1921.0	1.0D	220.0			QL=2 ST=2 TYP=3
├	8800	PALE	4	S/F	1921.0E	1926.0	11.0D	98.0			QL=4 ST=2 TYP=5
├	8800	SGMR	4	S/F	1922.0E	1926.0	10.0D	86.0			QL=4 ST=2 TYP=5
├	2800	PENT	4	S/F	1922.2	1923.5	13.8	17.4	7.0		
├	4995	PALE	20	GRF	1923.0E	1930.0	9.0D	40.0			QL=4 ST=2 TYP=2
├	15400	SGMR	4	S/F	1923.0E	1926.0	9.0D	130.0			QL=4 ST=2 TYP=5
├	4995	SGMR	20	GRF	1923.0E	1930.0	9.0D	48.0			QL=4 ST=2 TYP=2
├	610	PALE	4	S/F	1927.0E	1927.0	5.0D	380.0			QL=4 ST=2 TYP=3
├	1415	PALE	4	S/F	1927.0E	1928.0	3.0D	42.0			QL=4 ST=2 TYP=3
├	245	SGMR	8	S	1927.0E	1927.0	U	190.0			QL=2 ST=2 TYP=3
├	1415	SGMR	4	S/F	1927.0E	1928.0	3.0D	46.0			QL=4 ST=2 TYP=3
├	610	SGMR	4	S/F	1927.0E	1927.0	7.0D	360.0			QL=2 ST=2 TYP=3
├	410	PALE	4	S/F	1927.0E	1931.0	10.0D	130.0			QL=4 ST=2 TYP=5
└	410	SGMR	4	S/F	1929.0E	1931.0	7.0D	140.0			QL=2 ST=2 TYP=5
┌	410	PALE	8	S	2015.0E	2015.0	U	400.0			QL=4 ST=2 TYP=3
└	410	SGMR	8	S	2015.0E	2015.0	U	150.0			QL=2 ST=2 TYP=3
┌	410	LEAR	8	S	2250.0E	2251.0	1.0D	190.0			QL=4 ST=2 TYP=3

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
04	410	PALE	8	S	2250.0E	2250.0	1.0D	330.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	2250.5	2251.0	7.8	18.2	5.0		
05	100	GORK	44	NS	0400.0E		450.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	40.0			
	410	LEAR	44	NS	0608.0E	0626.0	22.0D	220.0			QL=4 ST=2 TYP=1
	245	SVTO	44	NS	0614.0E	0615.0	108.0D	130.0			QL=4 ST=2 TYP=1
	410	SVTO	44	NS	0616.0E	0645.0	115.0D	120.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0620.0E	1046.8	410.0D	60.0	1.0		V=1
	260	ONDR	44	NS	0830.0E	1434.5	380.0D				
	235	CUBA	44	NS	1307.0E		463.0D		34.0		
	245	SGMR	44	NS	1336.0E	1901.0	444.0D	250.0			QL=2 ST=2 TYP=1
	280	CUBA	44	NS	1640.0E		220.0D		33.0		
	245	PALE	44	NS	1646.0E	1657.0	614.0D	150.0			QL=4 ST=2 TYP=1
	200	HIRA	44	NS	2050.0E	2130.0	670.0D	80.0	35.0		MR
	245	LEAR	44	NS	2300.0E	2300.0	171.0D	91.0			QL=4 ST=2 TYP=1
	410	LEAR	49	GB	0031.0E	0031.0	3.0D	750.0			QL=4 ST=2 TYP=6
	4995	LEAR	4	S/F	0031.0E	0031.0	5.0D	58.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0031.0E	0031.0	4.0D	43.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0031.0E	0031.0	5.0D	56.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0031.0E	0031.0	5.0D	61.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0031.0E	0031.0	U	24.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0031.0E	0031.0	3.0D	120.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0031.0E	0031.0	1.0D	120.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0031.0E	0031.0	1.0D	54.0			QL=4 ST=3 TYP=3
	610	PALE	4	S/F	0031.0E	0031.0	7.0D	49.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0031.0E	0031.0	1.0D	54.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0031.0E	0031.0	U	36.0			QL=4 ST=3 TYP=6
	410	PALE	49	GB	0031.0E	0031.0	2.0D	1300.0			
	2800	PENT	3	S	0031.3	0031.7	1.8	51.1	15.0		QL=2 ST=2 TYP=3
	15400	PALE	8	S	0033.0E	0033.0	U	400.0			
	2840	PEKG	41	F	0116.0	0206.4	62.0	40.9			QL=4 ST=2 TYP=3
	245	PALE	8	S	0352.0E	0352.0	U	210.0			
	2840	PEKG	5	S	0352.0	0401.6	18.0	11.3			
	2950	GORK	23	GRF	0430.0E	0601.4	420.0D	20.0			
	9100	GORK	23	GRF	0430.0E	1045.8	421.0D	38.0			
	650	GORK	23	GRF	0432.0	1034.0	418.0D	21.0			
	2695	LEAR	4	S/F	0443.0E	0445.0	4.0D	58.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0443.0	0445.9	13.0	57.7			
	410	LEAR	49	GB	0444.0E	0445.0	1.0D	550.0			QL=4 ST=2 TYP=6
	1415	LEAR	4	S/F	0444.0E	0445.0	3.0D	57.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0444.0E	0445.0	2.0D	16.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0444.0E	0445.0	3.0D	41.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0444.0E	0445.0	2.0D	44.0			QL=4 ST=2 TYP=3
	9100	GORK	2	S/F	0444.5	0445.8	2.8	55.0			
	17000	NOBE	2	S/F	0444.8	0445.8	1.5	30.0			80, 35GHZ:0
	15400	LEAR	8	S	0445.0E	0445.0	U	37.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0445.0	0445.9	3.0	32.0			
	650	GORK	8	S	0445.5	0445.6	0.4	23.0			
	950	GORK	8	S	0445.6	0445.8	0.3	100.0			
	2840	PEKG	20	GRF	0552.0	0601.4	30.0	6.5			
	950	GORK	46	C	0554.2	0605.1		355.0			
	950	GORK	46	C	0554.2	0600.4	14.5	55.0			
	950	GORK	46	C	0554.2	0601.9		57.0			
	650	GORK	46	C	0557.3	0602.0		60.0			
	650	GORK	46	C	0557.3	0600.4	11.5	210.0			
	610	LEAR	4	S/F	0559.0E	0600.0	6.0D	100.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0559.0E	0600.0	5.0D	130.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0600.0E	0601.0	2.0D	220.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0600.0E	0601.0	2.0D	170.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0610.0	0610.3	16.0	400.0			
	5900	KISV	22	GRF	0626.6	0629.7	14.8	8.0			
	9500	POTS	21	GRF	0634.0	1100.0U	461.0	31.0			
	8400	BERN	3	S	0643.7	0700.2		0.1			
	11800	BERN	4	S/F	0643.8	0651.0	23.8U	6.7			
	5900	KISV	23	GRF	0644.8	0646.2	13.6	6.0			
	9300	KISV	23	GRF	0644.9	0645.9	13.0	11.0			
	245	LEAR	4	S/F	0645.0E	0654.0	16.0D	400.0			QL=4 ST=2 TYP=5
	245	SVTO	4	S/F	0645.0E	0654.0	14.0D	460.0			QL=2 ST=2 TYP=5

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	410	LEAR	49	GB	0645.0E	0656.0	24.0D	630.0			QL=4 ST=2 TYP=7
	410	SVTO	49	GB	0645.0E	0653.0	24.0D	930.0			QL=2 ST=2 TYP=7
	9100	GORK	46	C	0645.5	0651.1		64.0			
	9100	GORK	46	C	0645.5	0646.5	8.5	11.0			
	5200	BERN	4	S/F	0648.0	0651.0	9.5	8.2			
	3100	BERN	4	S/F	0648.4	0651.0	12.1	1.2			
	2840	PEKG	5	S	0649.0	0651.0	8.0	13.1			
	19600	BERN	4	S/F	0649.0	0651.1	7.6	4.0			
	5900	KISV	4	S/F	0649.4	0651.4	4.7	40.0			
	9300	KISV	4	S/F	0649.6	0651.2	5.5	61.0			
	8800	LEAR	8	S	0650.0E	0651.0	2.0D	47.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0650.0E	0651.0	2.0D	68.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0650.0E	0650.0	1.0D	1200.0			QL=4 ST=2 TYP=6
	4995	LEAR	8	S	0650.0E	0651.0	1.0D	79.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0650.0E	0651.0	2.0D	69.0			QL=4 ST=2 TYP=3
	610	SVTO	49	GB	0650.0E	0650.0	1.0D	680.0			QL=4 ST=2 TYP=6
	4995	SVTO	8	S	0650.0E	0651.0	1.0D	73.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	0650.4	0651.0	2.0	69.0			80, 35GHZ:0
	950	GORK	4	S/F	0650.5	0650.9	0.7	32.0			
	650	GORK	4	S/F	0650.5	0650.9	0.7	260.0			
	2950	GORK	2	S/F	0650.6	0651.1	2.8	10.0			
	9500	POTS	4	S/F	0650.6	0651.2	4.4	60.0			
	3013	IZMI	1	S	0650.8	0651.0	1.5	7.0	3.0		
	950	GORK	29	PBI	0651.2	0651.2	9.1	4.0			
	9300	KISV	20	GRF	0708.4	0714.3	12.2	10.0			
	5900	KISV	20	GRF	0708.7	0712.6	13.1	11.0			
	2850	CRIM	1	S	0742.0	0742.5	1.0	8.0	3.0		
	2950	GORK	1	S	0742.1	0742.5	1.0	7.0			
	5900	KISV	4	S/F	0759.5	0800.9	7.0	68.0			
	2850	CRIM	3	S	0759.6	0801.0	3.0	62.0	21.0		
	9300	KISV	4	S/F	0759.7	0800.9	7.8	47.0			
	650	GORK	4	S/F	0759.8	0801.2	1.9	150.0			
	950	GORK	4	S/F	0759.8	0800.9	3.6	2260.0			
	2950	GORK	3	S	0800.0	0801.0	3.0	49.0			
	8800	LEAR	8	S	0800.0E	0800.0	1.0D	42.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0800.0E	0800.0	1.0D	55.0			QL=4 ST=2 TYP=3
	1415	LEAR	49	GB	0800.0E	0800.0	1.0D	530.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0800.0E	0800.0	1.0D	540.0			QL=4 ST=2 TYP=6
	4995	LEAR	8	S	0800.0E	0800.0	2.0D	70.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0800.0E	0800.0	1.0D	220.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0800.0E	0801.0	1.0D	25.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0800.0E	0800.0	1.0D	1300.0			QL=4 ST=2 TYP=6
	3000	POTS	4	S/F	0800.0	0801.0	3.0	40.0			
	410	SVTO	49	GB	0800.0E	0800.0	1.0D	520.0			QL=2 ST=2 TYP=6
	1415	SVTO	8	S	0800.0E	0800.0	1.0D	420.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0800.0E	0800.0	1.0D	46.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	0800.0E	0800.0	1.0D	64.0			QL=4 ST=2 TYP=3
	610	SVTO	49	GB	0800.0E	0800.0	1.0D	920.0			QL=4 ST=2 TYP=6
	8800	SVTO	8	S	0800.0E	0800.0	1.0D	34.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0800.0E	0800.0	1.0D	230.0			QL=2 ST=2 TYP=3
	1470	POTS	4	S/F	0800.0	0800.4	10.9	193.0			
	100	GORK	46	C	0800.0	0800.7	4.3	600.0			
	3013	IZMI	5	S	0800.0	0800.8	4.0	42.0	21.0		
	204	IZMI	41	F	0800.0	0802.8	4.0	210.0			
	100	GORK	46	C	0800.0	0802.9		600.0			
	9100	GORK	2	S/F	0800.2	0800.9	2.8	47.0			
	9500	POTS	4	S/F	0800.4	0800.8	3.8	42.0			
	950	GORK	23	GRF	0859.3	1050.4	150.7D	7.0			
	204	IZMI	42	SER	0902.0	0902.2	20.0	140.0			
	5900	KISV	23	GRF	0908.0	1121.0	172.0	31.0			
	9300	KISV	23	GRF	0922.0	1047.0	170.0	49.0			
	9300	KISV	2	S/F	0923.0	0925.2	7.0	30.0			
	5900	KISV	2	S/F	0924.0	0926.3	60.0	19.0			
	9100	GORK	2	S/F	0925.7	0926.4	1.6	15.0			
	2950	GORK	1	S	0925.8	0926.3	1.4	5.0			
	9500	POTS	4	S/F	0925.8	0926.3	1.2	18.0			
	3013	IZMI	1	S	0926.5		2.0	6.0	3.0		
	245	SVTO	8	S	0939.0E	0939.0	1.0D	88.0			QL=4 ST=2 TYP=3
	204	IZMI	5	S	1014.5	1014.5	0.3	150.0	70.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	1470	POTS	2	S/F	1025.6	1026.3	1.9	3.0			
	5900	KISV	2	S/F	1035.5	1046.4	19.0	32.0			
	3013	IZMI	20	GRF	1042.0	1047.0	12.0	10.0			
	1470	POTS	40	F	1043.0U	1049.0U	7.0U	25.0			
	950	GORK	46	C	1043.6	1049.0		74.0			
	950	GORK	46	C	1043.6	1044.6	5.8	20.0			
	2950	GORK	2	S/F	1045.0	1047.1	4.7	7.0			
	204	IZMI	5	S	1100.0	1100.4		150.0	75.0		
	6700	CUBA	21	GRF	1230.7E	1336.0	93.0D	22.0			21R
	245	SGMR	8	S	1256.0E	1256.0	1.0D	76.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1256.0E	1256.0	1.0D	83.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1429.0E	1436.0	8.0D	88.0			QL=2 ST=2 TYP=6
	610	SGMR	4	S/F	1430.0E	1436.0	7.0D	38.0			QL=2 ST=2 TYP=3
	536	ONDR	42	SER	1430.0	1434.5	7.5				
	6700	CUBA	2	S/F	1432.5	1433.5	3.0	7.0	3.0		50R
	610	SGMR	4	S/F	1434.0E	1436.0	6.0D	380.0			QL=2 ST=3 TYP=3
	410	SVTO	49	GB	1434.0E	1436.0	2.0D	1400.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1435.0E	1436.0	1.0D	320.0			QL=2 ST=3 TYP=3
	410	SGMR	49	GB	1435.0E	1436.0	4.0D	1400.0			QL=2 ST=3 TYP=6
	610	SVTO	8	S	1435.0E	1436.0	2.0D	290.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1435.0E	1436.0	1.0D	330.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1521.0E	1521.0	1.0D	71.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1539.0E	1541.0	3.0D	61.0			QL=2 ST=2 TYP=3
	6700	CUBA	21	GRF	1617.0	1814.0	253.0D	20.0			16R 2030 OFF
	6700	CUBA	1	S	1749.2	1750.0	1.8	6.0	3.0		22R
	610	PALE	8	S	1822.0E	1822.0	U	140.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1822.0E	1822.0	U	100.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	1856.0E	1856.0	1.0D	150.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1856.0E	1856.0	1.0D	130.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1856.0E	1856.0	1.0D	120.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1856.0E	1856.0	1.0D	140.0			QL=2 ST=2 TYP=3
06	245	LEAR	44	NS	0342.0E	0533.0	319.0D	100.0			QL=4 ST=2 TYP=1
	200	GORK	44	NS	0400.0E		420.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	15.0			
	127	TORN	44	NS	0620.0E		400.0D		1.0		V=0
	260	ONDR	44	NS	0830.0E	1001.5	370.0D	74.0			
	235	CUBA	44	NS	1310.0E		452.0D		22.0		
	200	HIRA	44	NS	2050.0E	0700.0	670.0D	30.0	12.0		WR
	245	PALE	44	NS	2142.0E	0016.0	377.0D	78.0			QL=4 ST=2 TYP=1
	410	LEAR	8	S	0130.0E	0131.0	1.0D	270.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0130.0E	0131.0	1.0D	43.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	0130.0E	0131.0	1.0D	250.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0131.0E	0131.0	U	44.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0423.0E	0425.0	2.0D	12.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0423.0E	0425.0	2.0D	290.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0423.0E	0425.0	4.0D	17.0			QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	0423.0E	0425.0	4.0D	460.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0424.0E	0425.0	1.0D	59.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0425.0E	0425.0	U	16.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0425.0E	0425.0	U	15.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0425.0	0425.4	2.0	21.0			
	650	GORK	4	S/F	0428.1	0428.4	0.9	50.0			
	650	GORK	2	S/F	0500.8	0500.9	0.7	17.0			
	950	GORK	2	S/F	0500.8	0500.9	0.7	20.0			
	610	LEAR	8	S	0501.0E	0501.0	U	170.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0516.0E	0516.0	1.0D	350.0			QL=2 ST=2 TYP=3
	2840	PEKG	45	C	0530.0	0532.0	25.0	54.1			
	9300	KISV	46	C	0531.0	0532.0	3.6	21.0			
	9300	KISV	46	C	0531.0	0533.6		18.0			
	9300	KISV	29	PBI	0531.0	0534.6	16.0	8.0			
	2950	GORK	2	S/F	0531.1	0532.0	3.7	42.0			
	2850	CRIM	4	S/F	0531.2	0531.9	2.9	64.0	20.0		
	200	GORK	46	C	0531.3	0535.0		300.0			
	200	GORK	46	C	0531.3	0533.4	6.3	300.0			
	9100	GORK	46	C	0531.5	0532.0	3.3	18.0			
	9100	GORK	46	C	0531.5	0533.6		12.0			
	650	GORK	2	S/F	0531.9	0533.6	2.4	20.0			
	950	GORK	2	S/F	0531.9	0533.6	2.7	13.0			

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
06	245	SVTO	8	S	0532.0E	0533.0	1.0D	100.0			QL=2 ST=2 TYP=3
	100	GORK	4	S/F	0532.2	0533.6	3.2	900.0			
	245	LEAR	8	S	0533.0E	0533.0	U	70.0			QL=4 ST=3 TYP=3
	8800	LEAR	8	S	0533.0E	0533.0	U	22.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0533.0E	0533.0	U	75.0			QL=4 ST=2 TYP=3
	5900	KISV	46	C	0537.0	0538.0		26.0			
	5900	KISV	46	C	0537.0	0539.6	3.7	30.0			
	5900	KISV	29	PBI	0540.7		20.0	8.0			
	610	LEAR	8	S	0547.0E	0548.0	1.0D	210.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	0547.0E	0548.0	1.0D	97.0			QL=2 ST=2 TYP=3
	100	GORK	40	F	0659.6	0701.1	9.0	800.0			
	1415	LEAR	8	S	0706.0E	0706.0	U	180.0			QL=2 ST=2 TYP=3
	5900	KISV	45	C	0713.4	0719.2	10.5	15.0			
	5900	KISV	45	C	0713.4	0715.3		10.0			
	9300	KISV	22	GRF	0714.5	0719.1	10.0	14.0			
	9300	KISV	22	GRF	0714.5	0720.5		13.0			
	9100	GORK	45	C	0718.3	0719.2	3.5	8.0			
	9100	GORK	45	C	0718.3	0720.5		8.0			
	9500	POTS	4	S/F	0718.5	0719.3	3.5	11.0			
	245	SVTO	8	S	0725.0E	0725.0	1.0D	78.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	0741.2	0742.1	2.2	15.0			
	9300	KISV	2	S/F	0741.2	0742.1	2.5	15.0			
	9500	POTS	40	F	0741.4	0742.0	5.6	10.0			
	9100	GORK	1	S	0741.5	0742.2	1.5	10.0			
	650	GORK	20	GRF	0849.1	0915.0	69.9	8.0			
	204	IZMI	7	C	0859.8	0859.9	0.3	200.0	100.0		
	536	ONDR	46	C	1000.0	1001.5		75.0			
	410	SVTO	8	S	1001.0E	1001.0	U	83.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1238.0E	1238.0	2.0D	160.0			QL=2 ST=3 TYP=3
	245	SVTO	8	S	1238.0E	1238.0	2.0D	170.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1530.0E	1534.0	5.0D	430.0			QL=2 ST=3 TYP=3
	245	SVTO	8	S	1530.0E	1531.0	1.0D	230.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1819.8	1821.0	2.7	17.0	8.0		20R
	245	PALE	8	S	1941.0E	1941.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1941.0E	1941.0	1.0D	91.0			QL=2 ST=2 TYP=3
	245	SGMR	4	S/F	2043.0E	2045.0	5.0D	59.0			QL=2 ST=2 TYP=3
	245	PALE	4	S/F	2044.0E	2045.0	3.0D	54.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2121.0E	2122.0	3.0D	50.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2322.0E	2323.0	1.0D	65.0			QL=2 ST=3 TYP=3
07	200	GORK	43	NS	0500.0		390.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	15.0			
	260	ONDR	44	NS	0830.0E	1015.0	360.0D				
	245	SVTO	44	NS	1030.0E	1045.0	304.0D	110.0			QL=2 ST=2 TYP=1
	245	SGMR	44	NS	1200.0E	1247.0	150.0D	90.0			QL=2 ST=2 TYP=1
	280	CUBA	44	NS	1305.0E		460.0D		36.0		
	235	CUBA	44	NS	1305.0E		460.0D		20.0		
	245	PALE	44	NS	1647.0E	1921.0	671.0D	63.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0016.0E	0016.0	U	59.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0115.0E	0115.0	1.0D	80.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0115.0E	0116.0	2.0D	73.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0115.0	0116.7	4.0	16.2			
	1415	LEAR	8	S	0118.0E	0119.0	1.0D	9.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0118.0E	0119.0	1.0D	8.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0118.0E	0119.0	1.0D	1.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0123.0E	0124.0	2.0D	440.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0123.0	0125.0	4.0	13.5			
	410	LEAR	8	S	0124.0E	0124.0	1.0D	72.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0124.0E	0125.0	1.0D	11.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0124.0E	0125.0	1.0D	20.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0124.0E	0124.0	1.0D	380.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0124.0E	0125.0	1.0D	25.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0124.0E	0125.0	1.0D	20.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	0124.0E	0124.0	1.0D	96.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0124.0E	0125.0	1.0D	25.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0206.0	0207.9	4.0	34.9			
	2840	PEKG	21	GRF	0224.0	0359.0	105.0	18.8			
	2840	PEKG	3	S	0247.0	0249.5	10.0	14.1			
	245	PALE	8	S	0252.0E	0253.0	2.0D	410.0			QL=2 ST=2 TYP=3

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
07	2695	LEAR	8	S	0253.0E	0253.0	U	14.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0253.0E	0253.0	1.0D	340.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0418.0E	0418.0	1.0D	57.0			QL=4 ST=2 TYP=3
	650	GORK	41	F	0513.2	0546.2		19.0			
	650	GORK	41	F	0513.2	0513.5	37.8	5.0			
	2840	PEKG	41	F	0542.0	0548.1	40.0	9.3			
	1415	LEAR	8	S	0543.0E	0543.0	U	35.0			QL=2 ST=3 TYP=3
	245	LEAR	49	GB	0543.0E	0543.0	U	2000.0			QL=4 ST=3 TYP=6
	245	SVTO	49	GB	0543.0E	0543.0	U	1700.0			QL=2 ST=2 TYP=6
	200	GORK	46	C	0543.0	0543.4	4.0	3250.0			
	200	GORK	46	C	0543.0	0546.6		2450.0			
	2950	GORK	1	S	0543.1	0543.3	1.2	4.0			
	950	GORK	46	C	0543.2	0546.2		33.0			
	950	GORK	46	C	0543.2	0543.6	8.4	9.0			
	245	LEAR	8	S	0545.0E	0546.0	1.0D	270.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0545.0E	0546.0	1.0D	280.0			QL=2 ST=2 TYP=3
	2950	GORK	2	S/F	0545.8	0546.1	2.2	8.0			
	1415	LEAR	8	S	0546.0E	0546.0	U	51.0			QL=2 ST=2 TYP=3
	1415	SVTO	8	S	0546.0E	0546.0	U	44.0			QL=2 ST=2 TYP=3
	100	GORK	8	S	0548.7	0549.3	1.7	65.0D			
	9100	GORK	22	GRF	0551.0	0555.5	30.0	10.0			
	9300	KISV	25	R	0552.8	0556.0		13.0			
	5900	KISV	25	R	0553.3	0554.6		10.0			
	2950	GORK	1	S	0553.6	0554.5	3.2	5.0			
	9100	GORK	1	S	0637.7	0652.0	16.0	6.0			
	204	IZMI	42	SER	0644.0	0651.8	8.5	300.0			
	3100	BERN	3	S	0644.3	0651.8	14.3	3.4			
	5200	BERN	3	S	0644.9	0651.9	13.3	2.2			
	2840	PEKG	1	S	0645.0	0646.3	3.0	6.1			
	2950	GORK	20	GRF	0645.3	0654.4	18.2	4.0			
	950	GORK	21	GRF	0645.7	0653.2	31.9	6.0			
	2850	CRIM	1	S	0646.2	0646.4	0.6	8.0	2.0		
	200	GORK	41	F	0646.2	0646.6	6.2	400.0			
	200	GORK	41	F	0646.2	0651.9		400.0			
	950	GORK	1	S	0646.3	0646.5	0.5	7.0			
	2950	GORK	1	S	0646.4	0646.6	0.4	4.0			
	600	HUMN	1	S	0651.0	0652.0	6.0	10.0	3.0		
	2695	LEAR	8	S	0651.0E	0651.0	1.0D	71.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0651.0E	0652.0	2.0D	21.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0651.0E	0651.0	1.0D	15.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0651.0E	0651.0	1.0D	17.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0651.0E	0651.0	1.0D	2600.0			QL=4 ST=2 TYP=6
	1415	LEAR	8	S	0651.0E	0652.0	1.0D	75.0			QL=2 ST=2 TYP=3
	245	SVTO	49	GB	0651.0E	0651.0	1.0D	2700.0			QL=4 ST=2 TYP=6
	1415	SVTO	8	S	0651.0E	0652.0	1.0D	62.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0651.0E	0651.0	1.0D	61.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0651.0	0652.1	7.0	80.4			
	1470	POTS	4	S/F	0651.2	0652.2	6.8	65.0			
	2950	GORK	4	S/F	0651.4	0652.0	2.6	50.0			
	950	GORK	4	S/F	0651.4	0652.2	1.8	45.0			
	650	GORK	4	S/F	0651.4	0652.4	2.0	33.0			
	3013	IZMI	5	S	0651.5	0652.0	4.0	14.0	7.0		
	2850	CRIM	3	S	0651.5	0651.9	3.5	85.0	25.0		
	9300	KISV	2	S/F	0651.7	0652.2	2.0	12.0			
	610	SVTO	8	S	0652.0E	0652.0	U	32.0			QL=4 ST=2 TYP=3
	650	GORK	29	PBI	0653.4	0653.4	33.9	3.0			
	2950	GORK	1	S	0707.4	0710.0	4.6	6.0			
	2840	PEKG	1	S	0709.0	0710.0	2.0	5.6			
	5200	BERN	3	S	0727.2	0729.2	5.6	1.7			
	245	LEAR	49	GB	0728.0E	0729.0	1.0D	530.0			QL=4 ST=2 TYP=6
	2840	PEKG	5	S	0728.0	0729.5	6.0	78.3			
	3100	BERN	3	S	0728.3	0729.3	4.0	3.7			
	2695	LEAR	8	S	0729.0E	0729.0	U	50.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0729.0E	0729.0	U	44.0			QL=2 ST=2 TYP=3
	245	SVTO	49	GB	0729.0E	0729.0	U	590.0			QL=4 ST=2 TYP=6
	2695	SVTO	8	S	0729.0E	0729.0	U	29.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	0729.0E	0729.0	1.0D	130.0			QL=4 ST=2 TYP=3
	200	GORK	42	SER	0729.0	0755.3		10000.0			
	9100	GORK	1	S	0729.0	0729.3	1.8	9.0			

S O L A R R A D I O E M I S S I O N
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OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
07	1470	POTS	4	S/F	0729.0	0729.4	2.8	22.0			
	2950	GORK	3	S	0729.0	0729.5	1.0	64.0			
	600	HUMN	1	S	0729.0	0729.5	2.0	15.0	4.0		
	3013	IZMI	5	S	0729.0	0729.5	1.0	22.0	12.0		
	200	GORK	42	SER	0729.0	0729.6	27.0	2000.0			
	200	GORK	42	SER	0729.0	0741.7		1000.0			
	950	GORK	4	S/F	0729.1	0729.4	0.9	36.0			
	650	GORK	4	S/F	0729.1	0729.5	5.2	150.0			
	950	GORK	30	PBI	0730.0	0730.0	12.4	3.0			
	2950	GORK	29	PBI	0730.0	0730.0	14.0	3.0			
	650	GORK	21	GRF	0738.1	0755.1	36.1	4.0			
	245	LEAR	49	GB	0741.0E	0741.0	1.0D	1600.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0741.0E	0741.0	1.0D	1500.0			QL=4 ST=2 TYP=6
	950	GORK	1	S	0741.6	0741.7	0.4	2.0			
	600	HUMN	2	S/F	0755.0	0756.0	4.0	29.0	5.0		
	610	SVTO	8	S	0755.0E	0755.0	1.0D	54.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0755.0E	0755.0	U	1900.0			QL=4 ST=2 TYP=6
	650	GORK	4	S/F	0755.1	0755.6	3.9	30.0			
	950	GORK	45	C	0755.2	0757.3		10.0			
	950	GORK	45	C	0755.2	0755.4	3.0	4.0			
	1470	POTS	4	S/F	0756.6	0757.6	1.6	9.0			
	11800	BERN	46	C	0834.6	0840.8	17.5	2.1			
	8400	BERN	46	C	0834.6	0840.8	37.5	3.4			
	5200	BERN	46	C	0835.7	0840.8	39.5	3.0			
	600	HUMN	45	C	0838.0	0841.0	18.0	10.0	2.0		
	2840	PEKG	45	C	0838.0	0840.3	12.0	25.3			
	19600	BERN	3	S	0838.4	0840.7	7.4	1.7			
	8800	LEAR	8	S	0839.0E	0840.0	2.0D	24.0			QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	0839.0E	0841.0	3.0D	19.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0839.0E	0840.0	2.0D	2400.0			QL=4 ST=2 TYP=6
	3100	BERN	46	C	0839.3	0845.5	35.3	3.3			
	650	GORK	21	GRF	0839.5	0907.7	33.2	8.0			
	950	GORK	21	GRF	0839.5	0846.8	23.2	13.0			
	410	LEAR	8	S	0840.0E	0840.0	1.0D	16.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0840.0E	0840.0	2.0D	32.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0840.0E	0840.0	1.0D	45.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0840.0E	0841.0	1.0D	46.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0840.0E	0840.0	1.0D	2300.0			QL=4 ST=2 TYP=6
	200	GORK	41	F	0840.2	0845.6		600.0			
	200	GORK	41	F	0840.2	0840.8	7.5	800.0			
	204	IZMI	42	SER	0840.5	0841.0	6.5	1500.0			
	3013	IZMI	41	F	0840.5	0845.5	10.0	27.0			
	650	GORK	4	S/F	0840.6	0841.0	0.8	110.0			
	9100	GORK	46	C	0840.6	0845.3		10.0			
	2950	GORK	45	C	0840.6	0845.5		32.0			
	950	GORK	46	C	0840.6	0845.8		68.0			
	2950	GORK	45	C	0840.6	0840.8	12.0	27.0			
	950	GORK	46	C	0840.6	0842.9	6.2	35.0			
	9100	GORK	46	C	0840.6	0840.9	6.8	29.0			
	5900	KISV	3	S	0840.6	0840.9	2.5	28.0			
	9300	KISV	3	S	0840.6	0840.9	2.2	34.0			
	2850	CRIM	45	C	0840.7	0845.5		42.0			
	2850	CRIM	45	C	0840.7	0840.8	12.0	42.0	14.0		
	245	LEAR	8	S	0844.0E	0845.0	1.0D	240.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0844.0E	0845.0	4.0D	18.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0844.0E	0845.0	4.0D	100.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0844.0E	0845.0	4.0D	26.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0844.0E	0845.0	1.0D	130.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0844.0E	0845.0	3.0D	25.0			QL=2 ST=2 TYP=3
	5900	KISV	4	S/F	0844.4	0845.5	4.0	27.0			
	9300	KISV	2	S/F	0844.5	0845.5	3.0	12.0			
	1470	POTS	4	S/F	0844.5U	0845.8U	3.5D	127.0			
	2695	LEAR	8	S	0845.0E	0845.0	1.0D	35.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0845.0E	0845.0	U	13.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0845.0E	0845.0	U	22.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0845.0E	0845.0	U	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0845.0E	0845.0	U	270.0			QL=4 ST=2 TYP=3
	650	GORK	4	S/F	0845.0	0845.7	3.0	24.0			
	600	HUMN	27	RF	0903.0	0908.0	9.0	2.0	1.0		

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OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
07	1470	POTS	8	S	0906.0U	0906.5	0.8U	33.0			
	9100	GORK	1	S	0924.2	0926.0	3.8	6.0			
	9300	KISV	2	S/F	0924.7	0925.9	4.0	7.0			
	204	IZMI	42	SER	0949.0	0949.4	3.5	200.0			
	245	LEAR	8	S	0951.0E	0951.0	1.0D	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0951.0E	0951.0	1.0D	43.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0951.0E	0951.0	2.0D	73.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0951.0E	0951.0	1.0D	150.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0951.5	0952.0	3.0	5.0			
	5900	KISV	1	S	0951.7	0952.0	0.5	4.0			
	3013	IZMI	1	S	0951.7	0951.8	1.0	5.0	3.0		
	9300	KISV	1	S	0951.7	0951.9	0.6	4.0			
	1470	POTS	8	S	0951.8	0951.9	1.2	24.0			
	9300	KISV	1	S	0953.1	0954.1	2.0	5.0			
	245	SVTO	8	S	0956.0E	0956.0	U	79.0			QL=4 ST=2 TYP=3
	8400	BERN	46	C	1006.5	1014.6	38.4	4.6			
	11800	BERN	3	S	1006.9	1014.8	12.8	3.9			
	3100	BERN	46	C	1007.2	1018.1	37.8	4.1			
	5200	BERN	46	C	1010.1	1014.7	30.1	3.4			
	5900	KISV	46	C	1012.0	1018.2		17.0			
	5900	KISV	46	C	1012.0	1014.8	7.1	33.0			
	3000	POTS	29	PBI	1012.5	1018.0	28.5	33.0			
	2950	GORK	45	C	1012.5	1018.1		36.0			
	2950	GORK	45	C	1012.5	1014.8	24.5	33.0			
	2850	CRIM	45	C	1013.0	1018.0		49.0			
	2850	CRIM	29	PBI	1013.0	1021.0	18.0	13.0	4.0		
	2850	CRIM	45	C	1013.0	1014.8	8.0	42.0	14.0		
	9300	KISV	4	S/F	1013.0	1014.8	5.6	50.0			
	536	ONDR	30	PBI	1013.1	1014.8	14.0	36.0			
	1470	POTS	29	PBI	1013.2	1018.5	42.3	113.0			
	19600	BERN	3	S	1013.2	1014.7	4.4	1.9			
	9100	GORK	21	GRF	1013.3	1023.0	22.7	8.0			
	600	HUMN	2	S/F	1013.5	1015.0	14.6	11.0	5.0		
	650	GORK	46	C	1013.9	1015.1	7.1	28.0			
	650	GORK	46	C	1013.9	1017.6		16.0			
	950	GORK	46	C	1013.9	1018.7		39.0			
	950	GORK	46	C	1013.9	1014.8	7.1	47.0			
	8800	SVTO	4	S/F	1014.0E	1014.0	6.0D	32.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1014.0E	1014.0	2.0D	24.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1014.0E	1018.0	5.0D	74.0			QL=4 ST=2 TYP=5
	610	SVTO	4	S/F	1014.0E	1015.0	6.0D	23.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1014.0E	1014.0	6.0D	30.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1014.0E	1014.0	1.0D	3200.0			QL=4 ST=2 TYP=6
	2695	SVTO	4	S/F	1014.0E	1018.0	6.0D	44.0			QL=2 ST=2 TYP=3
	9100	GORK	46	C	1014.3	1018.1		6.0			
	9100	GORK	46	C	1014.3	1014.8	5.0	39.0			
	200	GORK	4	S/F	1014.4	1014.8	1.2	3250.0			
	204	IZMI	7	C	1014.5	1015.0	1.0	2000.0	1500.0		
	808	ONDR	45	C	1014.5	1015.5	13.0	32.0			
	9300	KISV	29	PBI	1018.6E	1018.6	19.0D	13.0			
	5900	KISV	29	PBI	1019.1		24.0	14.0			
	650	GORK	29	PBI	1021.0	1021.0	20.3	7.0			
	950	GORK	29	PBI	1021.0	1021.0	20.4	10.0			
	245	SVTO	49	GB	1024.0E	1025.0	1.0D	740.0			QL=4 ST=2 TYP=6
	1470	POTS	4	S/F	1148.3	1149.6	3.3	77.0			
	1415	SGMR	8	S	1149.0E	1149.0	1.0D	61.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1149.0E	1149.0	1.0D	58.0			QL=4 ST=2 TYP=3
	600	HUMN	1	S	1149.4	1150.6	2.5	31.0	3.0		
	3013	IZMI	1	S	1149.5	1149.7	1.0	7.0	4.0		
	2850	CRIM	1	S	1149.5	1149.8	0.6	11.0	4.0		
	5900	KISV	1	S	1149.6	1149.8	0.4	6.0			
	610	SGMR	8	S	1150.0E	1150.0	1.0D	42.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1150.0E	1150.0	1.0D	56.0			QL=4 ST=2 TYP=3
	1470	POTS	2	S/F	1222.5	1223.2	2.1	5.0			
	1470	POTS	4	S/F	1246.6	1247.2	1.9	23.0			
	536	ONDR	8	S	1252.2	1252.6	1.2	181.0			
	127	TORN	42	SER	1318.9	1319.0	6.0	50.0			
	3000	POTS	2	S/F	1320.2	1321.5	1.8	5.0			
	245	SGMR	49	GB	1321.0E	1321.0	U	520.0			QL=2 ST=2 TYP=6

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
07	245	SVTO	49	GB	1321.0E	1321.0	U	550.0			QL=2 ST=2 TYP=6
	1470	POTS	4	S/F	1321.0	1321.5	2.0	9.0			
	2800	PENT	3	S	1446.8	1447.5	2.0	16.1	5.0		
	9500	CUBA	21	GRF	1514.0	1534.0	36.0	10.0	5.0		
	2800	PENT	3	S	1526.5	1527.8	2.2	10.0	3.0		
	410	SGMR	49	GB	1527.0E	1527.0	1.0D	870.0			QL=2 ST=2 TYP=6
	245	SGMR	8	S	1527.0E	1527.0	1.0D	72.0			QL=2 ST=2 TYP=3
	6700	CUBA	21	GRF	1527.0	1532.0	51.0	6.0	3.0		18R
	6700	CUBA	1	S	1527.3	1527.9	2.9	12.0	6.0		11R
	15000	CUBA	1	S	1527.5	1528.0	2.9	18.0	9.0		32L
	9500	CUBA	2	S/F	1527.5	1527.9	2.7	8.0	4.0		
	6700	CUBA	1	S	1537.9	1538.1	0.6	6.0	3.0		8R
	410	SGMR	49	GB	1624.0E	1624.0	1.0D	540.0			QL=2 ST=2 TYP=6
	2800	PENT	3	S	1624.4	1624.8	2.2	11.5	3.0		
	410	PALE	8	S	1757.0E	1757.0	1.0D	61.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	1834.0E	1834.0	U	600.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	2007.0E	2007.0	U	92.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2024.0E	2024.0	1.0D	81.0			QL=2 ST=2 TYP=3
08	245	LEAR	44	NS	0415.0E	0758.0	352.0D	460.0			QL=4 ST=2 TYP=1
	200	GORK	44	NS	0500.0E		480.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	25.0			
	245	SVTO	43	NS	0640.0	0839.0U	560.0D	180.0			QL=4 ST=2 TYP=1
	260	ONDR	44	NS	0830.0E	1150.0	350.0D	78.0			
	127	TORN	43	NS	0954.0		298.0		2.0		V=0
	235	CUBA	44	NS	1248.0E		439.0D		18.0		
	280	CUBA	44	NS	1555.0E		252.0D		34.0		
	245	LEAR	8	S	0231.0E	0232.0	1.0D	51.0			QL=4 ST=2 TYP=3
	100	GORK	41	F	0513.5	0514.4	9.5	5100.0			
	100	GORK	41	F	0513.5	0522.6		800.0			
	410	SVTO	8	S	0540.0E	0542.0	2.0D	44.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	0540.0E	0542.0	5.0D	120.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0541.0E	0542.0	1.0D	18.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0541.0E	0542.0	1.0D	110.0			QL=2 ST=2 TYP=3
	200	GORK	8	S	0542.3	0542.5	0.6	660.0			
	410	SVTO	49	GB	0557.0E	0557.0	U	510.0			QL=2 ST=2 TYP=6
	5900	KISV	2	S/F	0601.0	0604.5	5.0	10.0			
	9300	KISV	2	S/F	0603.1	0604.4	2.0	6.0			
	9100	GORK	1	S	0603.4	0604.5	1.7	4.0			
	245	SVTO	4	S/F	0615.0E	0617.0	4.0D	150.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	0615.5	0617.5	4.0	7.0			
	100	GORK	4	S/F	0616.7	0617.5	2.2	30200.0			
	200	GORK	4	S/F	0616.7	0617.6	2.1	9500.0			
	245	LEAR	8	S	0617.0E	0617.0	U	110.0			QL=2 ST=2 TYP=3
	204	IZMI	45	C	0617.0	0617.5	1.0	4700.0			
	9300	KISV	2	S/F	0617.1	0617.4	2.3	13.0			
	9100	GORK	1	S	0617.2	0617.5	1.4	8.0			
	33	UPIC	46	C	0617.5	0618.0	2.5				
	245	SVTO	8	S	0630.0E	0631.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0635.0E	0637.0	2.0D	100.0			QL=2 ST=3 TYP=3
	200	GORK	41	F	0639.0	0639.3	6.2	440.0			
	200	GORK	41	F	0639.0	0644.9		440.0			
	245	SVTO	8	S	0716.0E	0716.0	U	470.0			QL=2 ST=2 TYP=3
	5900	KISV	2	S/F	0720.0	0722.4	5.0	5.0			
	100	GORK	4	S/F	0833.0	0834.7	3.7	16300.0			
	204	IZMI	4	S/F	0834.4	0834.7	0.7	300.0			
	33	UPIC	45	C	0834.7	0835.2	2.3				
	204	IZMI	41	F	0853.0	0853.3	1.0	250.0			
	200	GORK	41	F	0930.0	0934.2	10.5	440.0			
	200	GORK	41	F	0930.0	0936.8		440.0			
	1470	POTS	4	S/F	1118.4	1119.2	3.4	10.0			
	9500	POTS	4	S/F	1118.4	1119.5	2.6	16.0			
	2850	CRIM	2	S/F	1118.5	1119.1	2.0	10.0	3.0		
	9300	KISV	46	C	1118.5	1119.1		15.0			
	9300	KISV	46	C	1118.5	1119.3		16.0			
	9300	KISV	46	C	1118.5	1119.6	3.0	17.0			
	5900	KISV	46	C	1118.6	1119.1		12.0			
	5900	KISV	46	C	1118.6	1119.3	3.0	12.0			
	9100	GORK	2	S/F	1118.6	1119.5	5.4	19.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
08	5900	KISV	46	C	1118.6	1119.6		12.0			
	2950	GORK	2	S/F	1118.7	1119.3	2.3	8.0			
	3000	POTS	4	S/F	1118.8	1119.3	2.0	9.0			
	650	GORK	1	S	1118.9	1119.6	1.6	1.0			
	950	GORK	1	S	1118.9	1119.6	1.5	3.0			
	536	ONDR	8	S	1144.0	1144.0	0.3	264.0			
	1470	POTS	2	S/F	1215.5	1216.0	1.7	5.0			
	245	SGMR	8	S	1220.0E	1220.0	U	69.0			QL=2 ST=2 TYP=3
	5900	KISV	2	S/F	1249.8	1250.1	1.0	10.0			
	9300	KISV	2	S/F	1249.9	1250.1	0.6	15.0			
	127	TORN	4	S/F	1349.2	1349.6	1.2	380.0	40.0		
	127	TORN	4	S/F	1411.7	1412.4	2.0	2300.0D	550.0		
	33	UPIC	45	C	1411.8	1413.0	2.1				
	6700	CUBA	40	F	1506.0	1509.0	4.0	8.0	4.0		OOR
	9500	CUBA	40	F	1506.0	1507.0	5.0	12.0	6.0		
	245	SGMR	8	S	1515.0E	1517.0	2.0D	63.0			QL=2 ST=2 TYP=3
	15000	CUBA	20	GRF	1545.0	1635.0	223.0	58.0	29.0		POL OFF
	9500	CUBA	2	S/F	1551.5	1551.7	1.0	7.0	3.0		
	6700	CUBA	2	S/F	1552.7	1552.8	0.4	5.0	2.0		9R
	245	SGMR	8	S	1633.0E	1633.0	U	81.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	1655.0	1658.1	6.0D	6.0			1701 DOWN
	6700	CUBA	1	S	1655.0	1657.2	4.5	2.0	1.0		OOR
	9500	CUBA	20	GRF	1847.0	1851.0	15.0	6.0	3.0		
	15000	CUBA	1	S	1905.0U	1905.8	3.0U	9.0			41R
	245	SGMR	8	S	1926.0E	1926.0	1.0D	140.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2014.0E	2015.0	1.0D	370.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2014.0E	2015.0	1.0D	420.0			QL=2 ST=2 TYP=3
	245	SGMR	49	GB	2048.0E	2048.0	1.0D	1500.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	2152.0E	2153.0	1.0D	2300.0			QL=4 ST=2 TYP=6
	2800	PENT	3	S	2207.5	2208.6	2.6	18.8	6.0		
	410	LEAR	8	S	2321.0E	2321.0	U	51.0			QL=4 ST=2 TYP=3
09	100	GORK	43	NS	0815.0		285.0D		5.0		
	235	CUBA	44	NS	1251.0E		429.0D		15.0		
	280	CUBA	44	NS	1630.0E		140.0D		31.0		
	245	LEAR	8	S	0030.0E	0030.0	1.0D	88.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0030.0E	0030.0	1.0D	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0140.0	0148.4	16.0	105.1			
	410	LEAR	4	S/F	0146.0E	0148.0	4.0D	140.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0146.0E	0148.0	3.0D	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0147.0E	0148.0	2.0D	55.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0147.0E	0148.0	3.0D	52.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0147.0E	0148.0	3.0D	88.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/E	0147.0E	0148.0	3.0D	430.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0147.0E	0148.0	3.0D	280.0			QL=4 ST=2 TYP=3
	35000	NOBE	1	S	0147.9	0148.4	1.5	59.0			80GHZ:O
	17000	NOBE	2	S/F	0147.9	0148.4	2.0	77.0			
	245	LEAR	8	S	0148.0E	0149.0	1.0D	50.0			QL=4 ST=2 TYP=3
	1415	LEAR	20	GRF	0206.0E	0206.0	11.0D	160.0			QL=2 ST=2 TYP=2
	245	LEAR	8	S	0254.0E	0255.0	1.0D	66.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0306.0E	0308.0	2.0D	66.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0358.0E	0358.0	U	79.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0413.0	0414.8	5.0	6.4			
	5900	KISV	23	GRF	0457.0	0528.0	83.0	20.0			
	9300	KISV	23	GRF	0457.5	0524.3	83.0	14.0			
	2840	PEKG	45	C	0513.0	0517.2	8.0	12.8			
	5900	KISV	2	S/F	0514.0	0514.7	1.2	16.0			
	2950	GORK	45	C	0514.2	0517.2		7.0			
	2950	GORK	45	C	0514.2	0514.9	4.2	7.0			
	4995	SVTO	4	S/F	0531.0E	0532.0	1109.0D	38.0			QL=2 ST=1 TYP=3
	2695	SVTO	4	S/F	0531.0E	0532.0	1109.0D	37.0			QL=4 ST=1 TYP=3
	410	LEAR	49	GB	0549.0E	0549.0	1.0D	1600.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	0549.0E	0549.0	1.0D	3400.0			QL=4 ST=2 TYP=6
	9100	GORK	23	GRF	0612.0U	0827.6	249.0U	42.0			
	2840	PEKG	45	C	0623.0	0634.2	20.0	27.9			
	9300	KISV	23	GRF	0624.0	0628.0	216.0	30.0			
	2950	GORK	21	GRF	0625.7	0731.4	262.3	23.0			
	2850	CRIM	7	C	0627.0	0634.1		29.0			
	2850	CRIM	7	C	0627.0	0629.3	12.0	15.0	10.0		

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
09	2850	CRIM	7	C	0627.0	0630.7		24.0			
	3013	IZMI	21	GRF	0628.5	0633.0	15.0	9.0			
	2950	GORK	46	C	0628.8	0634.2	10.2	19.0			
	3013	IZMI	5	S	0630.0	0630.5	1.5	10.0	5.0		
	5900	KISV	23	GRF	0637.0	0827.0	220.0	30.0			
	9500	POTS	20	GRF	0651.0E	0855.0	210.0D	28.0			
	3000	POTS	21	GRF	0654.4	0856.0	207.6	16.0			
	1470	POTS	21	GRF	0701.5	0921.0	177.5	6.0			
	610	LEAR	8	S	0713.0E	0713.0	U	340.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0713.0E	0713.0	U	340.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0713.0E	0713.0	U	220.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0713.0E	0713.0	U	50.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0713.0	0713.5	2.0	12.3			
	650	GORK	4	S/F	0713.2	0713.5	0.8	105.0			
	9100	GORK	1	S	0713.2	0713.5	1.1	8.0			
	3000	POTS	42	SER	0713.2E	0733.6U	21.3D	16.0			
	9300	KISV	2	S/F	0713.3	0713.6	1.0	9.0			
	5900	KISV	1	S	0713.3	0713.7	1.5	8.0			
	1470	POTS	42	SER	0713.4	0730.6	21.6	37.0			
	2850	CRIM	1	S	0713.4	0713.7	1.2	13.0	4.0		
	2950	GORK	1	S	0713.4	0713.7	1.2	8.0			
	204	IZMI	5	S	0713.4	0713.7	0.8	270.0	140.0		
	3013	IZMI	42	SER	0713.5	0734.0	22.0	4.0			
	950	GORK	2	S/F	0713.5	0713.7	0.9	8.0			
	204	IZMI	4	S/F	0722.0	0722.6	1.5	75.0			
	950	GORK	21	GRF	0722.9	0730.1	9.2	6.0			
	610	LEAR	8	S	0724.0E	0724.0	1.0D	140.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0724.0E	0724.0	1.0D	140.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0724.0	0725.1	4.0	14.1			
	2850	CRIM	1	S	0724.4	0725.0	1.0	20.0	6.0		
	2950	GORK	2	S/F	0724.7	0725.0	0.9	8.0			
	9100	GORK	1	S	0724.7	0725.1	1.3	5.0			
	650	GORK	4	S/F	0724.7	0725.2	1.5	180.0			
	950	GORK	2	S/F	0724.7	0724.9	1.0	12.0			
	2840	PEKG	3	S	0728.0	0733.8	10.0	18.7			
	2950	GORK	1	S	0733.5	0733.9	0.6	16.0			
	2850	CRIM	1	S	0733.7	0733.9	0.6	24.0	8.0		
	2950	GORK	2	S/F	0826.8	0827.1	0.9	4.0			
	536	ONDR	7	C	0932.5	0932.5	1.0	63.0			
	260	ONDR	40	F	1037.0	1239.0	172.0	560.0U			
	536	ONDR	8	S	1052.5	1053.0	1.2	186.0			
	245	SGMR	8	S	1237.0E	1237.0	1.0D	200.0			QL=2 ST=2 TYP=3
	100	GORK	8	S	1237.4	1237.7	0.6	5600.0			
	245	SGMR	8	S	1258.0E	1258.0	1.0D	300.0			QL=2 ST=2 TYP=3
	100	GORK	4	S/F	1258.0	1258.4	1.3	1600.0			
	245	SGMR	8	S	1305.0E	1306.0	1.0D	500.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2120.0E	2121.0	2.0D	160.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2127.0E	2127.0	1.0D	680.0			QL=4 ST=2 TYP=6
10	200	GORK	44	NS	0430.0E		510.0D		5.0		
	245	LEAR	44	NS	0824.0E	0827.0	70.0D	56.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1259.0E		471.0D		16.0		
	127	TORN	43	NS	1402.0	1402.5	58.0	390.0D	3.0D		V=1
	280	CUBA	44	NS	1624.0E		266.0D		24.0		
	245	LEAR	8	S	0121.0E	0122.0	1.0D	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0246.0E	0246.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0246.0E	0246.0	1.0D	80.0			QL=4 ST=2 TYP=3
	100	GORK	4	S/F	0427.0	0429.3	33.6	600.0			
	200	GORK	41	F	0457.0	0504.3		1200.0			
	200	GORK	41	F	0457.0	0458.7	8.5	8100.0			
	2840	PEKG	5	S	0457.0	0458.8	4.0	27.0			
	245	LEAR	49	GB	0458.0E	0458.0	1.0D	1300.0			QL=4 ST=2 TYP=6
	200	GORK	41	F	0615.8	0618.0	11.8	815.0			
	200	GORK	41	F	0615.8	0624.3		400.0			
	245	LEAR	8	S	0616.0E	0617.0	2.0D	270.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0616.0	0619.4	25.0	380.0			
	245	SVTO	8	S	0617.0E	0617.0	1.0D	290.0			QL=2 ST=2 TYP=3
	100	GORK	41	F	0617.8	0618.2	7.2	700.0			
	100	GORK	41	F	0617.8	0624.4		900.0			

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
10	610	SVTO	4	S/F	0623.0E	0626.0	8.0D	29.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	0623.5	0626.8	7.4	9.0			
	245	LEAR	8	S	0624.0E	0624.0	U	140.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0624.0E	0627.0	7.0D	15.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0624.0E	0624.0	U	150.0			QL=4 ST=3 TYP=3
	1415	SVTO	4	S/F	0624.0E	0627.0	7.0D	40.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	0625.0E	0626.0	6.0D	40.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0625.0	0626.8	8.0	33.5			
	3013	IZMI	5	S	0625.5	0626.8	10.0	14.0	7.0		
	950	GORK	3	S	0625.6	0627.5	4.4	35.0			
	650	GORK	4	S/F	0625.6	0626.7	1.5	28.0			
	2850	CRIM	3	S	0625.7	0626.7	3.0	35.0	12.0		
	2850	CRIM	29	PBI	0625.7	0628.7	40.0	19.0	5.0		
	2950	GORK	3	S	0625.7	0626.8	2.4	26.0			
	600	HUMN	1	S	0626.0	0627.0	3.0	13.0	6.0		
	610	LEAR	8	S	0626.0E	0626.0	1.0D	22.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0626.0E	0626.0	3.0D	33.0			QL=4 ST=2 TYP=3
	650	GORK	29	PBI	0627.1	0627.1	42.5	17.0			
	2950	GORK	30	PBI	0628.1	0628.1	96.1	13.0			
	950	GORK	29	PBI	0630.0	0630.0	27.8	31.0			
	2840	PEKG	5	S	0714.0	0716.8	11.0	7.0			
	9100	GORK	22	GRF	0715.5	0722.7	23.5	7.0			
	2850	CRIM	1	S	0716.0	0716.6	1.0	7.0	2.0		
	2950	GORK	1	S	0716.0	0716.7	1.1	5.0			
	3013	IZMI	1	S	0716.0	0716.8	3.0	7.0	4.0		
	5900	KISV	2	S/F	0716.0	0716.9	3.2	5.0			
	204	IZMI	41	F	0830.5	0832.0	3.5	113.0			
	9100	GORK	2	S/F	0856.0	0856.8	2.0	8.0			
	2950	GORK	2	S/F	0856.8	0857.2	0.7	5.0			
	260	ONDR	41	F	1010.0	1427.5	270.0	229.0			
	204	IZMI	41	F	1010.5	1011.4	1.5	93.0			
	245	SGMR	4	S/F	1242.0E	1244.0	3.0D	58.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1243.0E	1244.0	2.0D	61.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1244.0E	1244.0	U	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1314.0E	1315.0	1.0D	58.0			QL=4 ST=2 TYP=3
	9500	POTS	40	F	1340.3	1340.5	25.7	68.0			
	536	ONDR	8	S	1343.5	1344.0	1.2	139.0			
	6700	CUBA	1	S	1344.0	1345.0	1.9	6.0	3.0		13R
	2695	SGMR	8	S	1344.0E	1344.0	U	32.0			QL=4 ST=2 TYP=3
	600	HUMN	2	S/F	1344.0	1344.3	5.0	12.0	3.0		
	1470	POTS	4	S/F	1344.0	1344.9	7.0	19.0			
	127	TORN	1	S	1355.4	1355.5	0.4	20.0	10.0		
	245	SGMR	49	GB	1427.0E	1427.0	1.0D	550.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1427.0E	1427.0	1.0D	530.0			QL=4 ST=2 TYP=6
	245	SGMR	4	S/F	1541.0E	1542.0	3.0D	430.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	1541.0E	1542.0	4.0D	380.0			QL=2 ST=2 TYP=3
	245	SGMR	4	S/F	1734.0E	1735.0	5.0D	81.0			QL=2 ST=2 TYP=3
	245	PALE	4	S/F	1735.0E	1735.0	3.0D	70.0			QL=4 ST=3 TYP=3
	245	PALE	4	S/F	1742.0E	1744.0	4.0D	280.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1745.0E	1745.0	1.0D	320.0			QL=2 ST=2 TYP=3
	1415	PALE	8	S	1937.0E	1938.0	2.0D	170.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1937.0E	1938.0	2.0D	170.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1937.2	1938.0	1.9	8.0	4.0		9R
	9500	CUBA	1	S	1938.1	1939.0	1.9	10.0	5.0		
	610	PALE	8	S	1957.0E	1957.0	1.0D	67.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1957.0E	1957.0	1.0D	39.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1957.0E	1957.0	1.0D	100.0			QL=2 ST=3 TYP=3
	2695	SGMR	8	S	1957.0E	1957.0	1.0D	38.0			QL=4 ST=3 TYP=3
	2800	PENT	3	S	1957.0	1957.8	2.5	40.3	12.0		
	9500	CUBA	1	S	1957.4	1957.9	1.4	12.0	6.0		
	245	PALE	4	S/F	2159.0E	2200.0	3.0D	62.0			QL=4 ST=2 TYP=3
11	204	IZMI	43	NS	0600.0		360.0	10.0			
	200	GORK	43	NS	0700.0		360.0D		5.0		
	235	CUBA	44	NS	1246.0E		484.0D		14.0		
	280	CUBA	44	NS	1630.0E		260.0D		26.0		
	245	LEAR	4	S/F	0112.0E	0114.0	7.0D	380.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0113.0E	0114.0	1.0D	530.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0131.0E	0131.0	1.0D	48.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
11	245	LEAR	8	S	0300.0E	0300.0	1.0D	210.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0300.0E	0300.0	U	240.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0537.0E	0539.0	3.0D	88.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0538.0E	0539.0	2.0D	80.0			QL=4 ST=2 TYP=3
	204	IZMI	5	S	0636.7	0637.2	0.8	117.0	60.0		
	410	LEAR	8	S	0719.0E	0719.0	U	52.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0719.0E	0719.0	U	56.0			QL=4 ST=2 TYP=3
	600	HUMN	27	RF	0724.0	0735.0	32.0	8.0	3.0		
	204	IZMI	42	SER	0805.4	0825.0	36.0	94.0			
	260	ONDR	41	F	0900.0	1110.0	195.0	236.0			
	1470	POTS	4	S/F	0942.2	0943.2	2.8	19.0			
	950	GORK	4	S/F	0942.6	0943.5	2.4	18.0			
	650	GORK	2	S/F	0942.9	0943.1	0.8	6.0			
	1470	POTS	40	F	1002.5	1012.7	14.5	7.0			
	200	GORK	4	S/F	1014.0	1014.8	1.1	10.0			
	204	IZMI	5	S	1015.0	1015.4	0.8	105.0	60.0		
	204	IZMI	42	SER	1109.0	1110.0	5.5	400.0			
	127	TORN	47	GB	1109.4	1111.2	3.5	580.0	70.0		
	536	ONDR	8	S	1306.0	1306.3	0.7	63.0			
	9500	CUBA	21	GRF	2015.0	2024.0	14.0	9.0	4.0		
	6700	CUBA	21	GRF	2015.0	2024.0	15.0D	16.0			6R 2030 OFF
	2800	PENT	3	S	2015.0	2018.2	8.7	12.5	4.0		
	4995	PALE	4	S/F	2017.0E	2019.0	4.0D	40.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2017.0E	2018.0	4.0D	56.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	2017.1	2018.1	3.4	15.0	7.0		44L
	8800	SGMR	8	S	2018.0E	2018.0	1.0D	46.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2018.0E	2018.0	2.0D	39.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	2018.0	2018.2	5.0	39.0	19.0		
	6700	CUBA	2	S/F	2018.0	2019.3	5.5	33.0	16.0		5R
12	200	GORK	44	NS	0430.0E		420.0D		5.0		
	235	CUBA	44	NS	1312.0E		448.0D		15.0		
	2840	PEKG	5	S	0120.0	0124.0	20.0	6.6			
	2840	PEKG	1	S	0211.0	0212.0	2.0	4.6			
	610	LEAR	4	S/F	0454.0E	0457.0	4.0D	20.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0457.0E	0457.0	1.0D	62.0			QL=2 ST=2 TYP=3
	950	GORK	4	S/F	0457.4	0458.0	1.3	33.0			
	650	GORK	2	S/F	0457.4	0458.0	1.3	4.0			
	245	LEAR	8	S	0458.0E	0458.0	2.0D	48.0			QL=4 ST=2 TYP=3
	200	GORK	41	F	0458.3	0505.4		3250.0			
	200	GORK	41	F	0458.3	0458.5	10.7	2450.0			
	650	GORK	46	C	0503.6	0505.2	3.9	120.0			
	650	GORK	46	C	0503.6	0506.2		275.0			
	950	GORK	46	C	0503.6	0506.4		85.0			
	950	GORK	46	C	0503.6	0504.4	4.0	66.0			
	1415	LEAR	8	S	0504.0E	0506.0	2.0D	160.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0505.0E	0505.0	3.0D	850.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0505.0E	0506.0	1.0D	400.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0505.0E	0506.0	1.0D	230.0			QL=4 ST=2 TYP=3
	2950	GORK	20	GRF	0751.0	0832.9	113.6	6.0			
	9100	GORK	23	GRF	0815.0	1031.7	201.0	10.0			
	650	GORK	23	GRF	0953.3	1006.8	26.2	4.0			
	3100	BERN	46	C	1001.5	1005.4	9.9	5.1			
	5200	BERN	46	C	1001.6	1005.6	9.7	6.5			
	2850	CRIM	3	S	1002.5	1005.0	8.0	66.0	20.0		
	5900	KISV	46	C	1002.7	1008.2		46.0			
	5900	KISV	46	C	1002.7	1005.7	8.5	97.0			
	9300	KISV	4	S/F	1002.8	1005.6	12.9	122.0			
	2950	GORK	46	C	1002.9	1005.6	9.1	48.0			
	808	ONDR	46	C	1003.0	1005.0	5.0	100.0			
	950	GORK	4	S/F	1003.0E	1005.2	3.6D	135.0			
	9100	GORK	46	C	1003.2	1008.3		28.0			
	9100	GORK	46	C	1003.2	1005.7	7.5	128.0			
	650	GORK	46	C	1003.7	1006.3		60.0			
	650	GORK	46	C	1003.7	1005.5	3.1	145.0			
	600	HUMN	2	S/F	1004.0	1005.0	4.0	30.0	15.0		
	536	ONDR	46	C	1004.0	1005.0	2.5	71.0			
	2695	SVTO	8	S	1004.0E	1005.0	2.0D	67.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	1004.0E	1005.0	2.0D	62.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
12	1415	SVTO	8	S	1004.0E	1005.0	2.0D	40.0			QL=4 ST=2 TYP=3
	3013	IZMI	7	C	1005.0	1006.0	6.0	27.0D			
	8800	SVTO	8	S	1005.0E	1005.0	1.0D	100.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1005.0E	1005.0	1.0D	69.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1005.0E	1005.0	1.0D	89.0			QL=4 ST=2 TYP=3
	33	UPIC	32	ABS	1005.0	1008.5	11.0				
	950	GORK	29	PBI	1006.6	1006.6	6.9	6.0			
	3100	BERN	4	S/F	1030.1	1031.7	3.3	0.9			
	5200	BERN	3	S	1030.3	1031.6	3.3	0.8			
	2950	GORK	21	GRF	1030.4	1058.1	59.6	7.0			
	2850	CRIM	1	S	1031.0	1031.6	1.5	7.6	2.0		
	9300	KISV	2	S/F	1031.0	1031.8	2.0	7.0			
	3013	IZMI	1	S	1031.1	1031.8	1.5	5.0	2.0		
	2950	GORK	1	S	1031.3	1031.8	1.1	7.0			
	5900	KISV	4	S/F	1056.2	1058.1	10.2	24.0			
	9300	KISV	2	S/F	1056.4	1058.1	8.2	16.0			
	9100	GORK	2	S/F	1056.8	1058.0	2.1	10.0			
	6700	CUBA	1	S	1549.5	1549.9	2.4	5.0	2.0		8L
	6700	CUBA	1	S	1608.7	1608.9	0.4	4.0	2.0		29L
13	235	CUBA	44	NS	1326.0E		484.0D		15.0		
	280	CUBA	44	NS	1600.0E		120.0D		24.0		
	2950	GORK	1	S	0656.6E	0657.2U	2.1D	10.0			
	5900	KISV	1	S	0656.7	0657.2	5.8	7.0			
	3013	IZMI	5	S	0656.8		3.0	8.0	4.0		
	2850	CRIM	1	S	0656.8	0657.1	1.0	15.0	5.0		
	9300	KISV	2	S/F	0656.8	0657.2	4.5	7.0			
	2840	PEKG	5	S	0657.0	0658.2	2.0	13.3			
	260	ONDR	41	F	0850.0	1112.5	160.0	93.0			
	536	ONDR	8	S	0851.3	0851.5	1.0	117.0			
	204	IZMI	41	F	0932.5	0934.0	2.0	67.0			
	127	TORN	4	S/F	0933.0	0933.3	1.8	180.0	90.0		
	204	IZMI	41	F	1158.5	1159.5	2.0	23.0			
	127	TORN	45	C	1213.2	1214.0	3.2	70.0	10.0		
	6700	CUBA	21	GRF	1709.0	1748.0	120.0	11.0	5.0		00R
	6700	CUBA	1	S	1709.5	1710.5	5.6	54.0	27.0		9R
	2695	PALE	8	S	1809.0E	1810.0	1.0D	34.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1809.0E	1810.0	1.0D	41.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1809.0E	1810.0	1.0D	74.0			QL=2 ST=2 TYP=3
	4995	PALE	8	S	1809.0E	1810.0	1.0D	60.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1809.0E	1810.0	1.0D	72.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	1809.0E	1810.0	1.0D	45.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1809.0E	1810.0	1.0D	62.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1809.0E	1810.0	1.0D	41.0			QL=4 ST=2 TYP=3
	15000	CUBA	21	GRF	1809.0	1832.0	224.0	77.0	38.0		00R
	15000	CUBA	1	S	1809.2	1810.4	6.0	22.0	11.0		37R
	2800	PENT	3	S	1809.4	1810.4	6.3	34.9	11.0		
	245	PALE	49	GB	1953.0E	1953.0	U	730.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1953.0E	1953.0	U	850.0			QL=2 ST=2 TYP=6
	1415	PALE	8	S	2011.0E	2012.0	2.0D	180.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	2011.0E	2012.0	2.0D	180.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	2219.0E	2224.0	7.0D	94.0			QL=2 ST=2 TYP=3
	245	LEAR	4	S/F	2219.0E	2219.0	7.0D	220.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	2219.0E	2224.0	7.0D	30.0			QL=2 ST=2 TYP=3
	410	LEAR	4	S/F	2219.0E	2219.0	6.0D	120.0			QL=2 ST=2 TYP=3
	2695	LEAR	4	S/F	2219.0E	2224.0	7.0D	23.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	2219.0E	2224.0	5.0D	37.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	2241.0E	2241.0	1.0D	280.0			QL=2 ST=2 TYP=3
	610	PALE	8	S	2241.0E	2241.0	1.0D	310.0			QL=4 ST=2 TYP=3
14	200	GORK	44	NS	0430.0E		210.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	10.0			
	235	CUBA	44	NS	1422.0E		443.0D		18.0		
	280	CUBA	44	NS	1600.0E		345.0D		27.0		
	1415	LEAR	8	S	0238.0E	0239.0	1.0D	270.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0258.0	0258.5	1.0	4.9			
	1415	LEAR	4	S/F	0308.0E	0309.0	3.0D	180.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0310.0E	0311.0	8.0D	170.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0453.0E	0453.0	U	600.0			QL=4 ST=2 TYP=6

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	9100	GORK	2	S/F	0453.0	0453.6	3.2	9.0			
	2950	GORK	1	S	0453.0	0454.9	3.3	4.0			
	1415	LEAR	8	S	0454.0E	0454.0	1.0D	33.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0507.0E	0507.0	1.0D	77.0			QL=4 ST=2 TYP=3
	9100	GORK	23	GRF	0651.0U	1237.0U	369.0D	15.0			
	1470	POTS	21	GRF	0657.6	1015.0	467.0	5.0			
	5900	KISV	2	S/F	0701.7	0703.2	5.8	5.0			
	9500	POTS	21	GRF	0715.0E	1015.0	390.0D	12.0			
	3000	POTS	21	GRF	0716.3	1015.0U	449.0	38.0			
	9300	KISV	21	GRF	0735.7	0736.4	12.8	4.0			
	5900	KISV	23	GRF	0736.1	0805.2	49.2	10.0			
	2950	GORK	23	GRF	0750.4	1225.6	309.6D	19.0			
	5900	KISV	4	S/F	0752.1	0754.5	4.8	16.0			
	9300	KISV	22	GRF	0752.9	0754.5	29.6	15.0			
	9100	GORK	2	S/F	0753.4	0754.5	2.7	9.0			
	410	SVTO	8	S	0800.0E	0801.0	1.0D	64.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0801.0E	0801.0	2.0D	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0801.0E	0801.0	1.0D	170.0			QL=2 ST=2 TYP=3
	1470	POTS	42	SER	0941.0	0950.4	10.8	35.0			
	3000	POTS	42	SER	0942.4	0950.5	8.6	58.0			
	3013	IZMI	42	SER	0942.5	0950.5	53.0	29.0			
	2950	GORK	2	S/F	0942.5	0942.7	1.0	17.0			
	410	LEAR	8	S	0949.0E	0950.0	1.0D	190.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0949.0E	0950.0	1.0D	360.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0949.0E	0950.0	3.0D	100.0			QL=4 ST=3 TYP=3
	2950	GORK	4	S/F	0949.9	0950.5	1.5	42.0			
	1415	LEAR	8	S	0950.0E	0950.0	U	31.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0950.0E	0950.0	U	39.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0950.0E	0950.0	U	330.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	0950.0E	0950.0	U	23.0			QL=4 ST=3 TYP=3
	2695	SVTO	8	S	0950.0E	0950.0	2.0D	52.0			QL=4 ST=3 TYP=3
	1415	SVTO	8	S	0950.0E	0950.0	2.0D	33.0			QL=4 ST=3 TYP=3
	2850	CRIM	3	S	0950.0	0950.4	0.8	58.0	19.0		
	650	GORK	4	S/F	0950.1	0950.3	0.9	510.0			
	950	GORK	4	S/F	0950.1	0950.5	1.3	60.0			
	5900	KISV	1	S	0950.1	0950.5	0.8	6.0			
	1415	LEAR	4	S/F	1001.0E	1003.0	5.0D	250.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	1002.0E	1003.0	2.0D	58.0			QL=2 ST=2 TYP=3
	5900	KISV	45	C	1002.8	1011.0		16.0			
	5900	KISV	45	C	1002.8	1006.0		7.0			
	5900	KISV	45	C	1002.8	1003.6	15.6	20.0			
	610	LEAR	8	S	1003.0E	1003.0	U	93.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	1003.0E	1003.0	1.0D	28.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1003.0E	1003.0	1.0D	200.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1003.0E	1003.0	1.0D	45.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	1003.0E	1003.0	U	27.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1003.0E	1003.0	U	36.0			QL=2 ST=2 TYP=3
	9500	POTS	42	SER	1003.0	1003.5	10.2	19.0			
	100	GORK	4	S/F	1003.0	1003.9	1.7	1000.0			
	2950	GORK	4	S/F	1003.2	1003.6	1.3	35.0			
	9100	GORK	46	C	1003.3	1006.0		10.0			
	650	GORK	4	S/F	1003.3	1003.5	3.0	60.0			
	2850	CRIM	3	S	1003.3	1003.6	0.8	36.0	12.0		
	950	GORK	46	C	1003.3	1003.6	3.3	145.0			
	9100	GORK	46	C	1003.3	1003.6	9.9	29.0			
	9300	KISV	45	C	1003.3	1003.6	16.2	26.0			
	950	GORK	46	C	1003.3	1005.7		145.0			
	9100	GORK	46	C	1003.3	1010.7		21.0			
	9300	KISV	45	C	1003.3	1010.8		24.0			
	9300	KISV	45	C	1003.3	1005.8		11.0			
	2950	GORK	4	S/F	1005.7	1006.0	0.7	39.0			
	2850	CRIM	3	S	1005.7	1005.9	0.6	48.0	16.0		
	2950	GORK	1	S	1009.9	1011.0	3.4	13.0			
	950	GORK	2	S/F	1010.0	1010.6	2.4	23.0			
	2850	CRIM	1	S	1010.0	1010.9	2.7	19.0	6.0		
	650	GORK	2	S/F	1010.6	1010.7	0.5	10.0			
	100	GORK	41	F	1020.6	1023.1		430.0			
	100	GORK	41	F	1020.6	1020.8	4.0	1000.0			
	1415	SVTO	8	S	1023.0E	1023.0	1.0D	440.0			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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	2695	SVTO	8	S	1023.0E	1023.0	1.0D	36.0			QL=2 ST=2 TYP=3
	3000	POTS	4	S/F	1023.0U	1023.8	2.0D	36.0			
	2950	GORK	4	S/F	1023.3	1023.9	1.7	25.0			
	650	GORK	4	S/F	1023.5	1023.6	0.6	60.0			
	950	GORK	4	S/F	1023.5	1023.6	0.6	134.0			
	1470	POTS	3	S	1023.5	1023.7	1.5	176.0			
	5900	KISV	1	S	1023.6	1023.9	0.6	7.0			
	2850	CRIM	3	S	1023.7	1023.9	1.0	38.0	13.0		
	536	ONDR	42	SER	1041.0	1050.0	73.0	297.0			
	808	ONDR	42	SER	1050.0		73.0	235.0			
	9500	POTS	42	SER	1052.5	1114.5	28.5	18.0			
	5900	KISV	4	S/F	1053.1	1058.3	9.1	16.0			
	3000	POTS	42	SER	1053.3	1058.2U	6.2	86.0			
	2950	GORK	1	S	1053.4	1053.6	0.6	6.0			
	3013	IZMI	41	F	1053.5	1058.0	7.0	39.0			
	1470	POTS	42	SER	1054.0U	1055.2	22.0D	109.0			
	9100	GORK	46	C	1054.0U	1058.3		16.0			
	9100	GORK	46	C	1054.0U	1055.8	5.2D	6.0			
	2950	GORK	4	S/F	1054.5	1055.2	2.5	27.0			
	950	GORK	46	C	1054.8	1055.2	5.2	100.0			
	950	GORK	46	C	1054.8	1058.2		130.0			
	9300	KISV	2	S/F	1054.8	1058.3	9.3	21.0			
	650	GORK	2	S/F	1056.3	1058.6	3.7	8.0			
	2695	SVTO	8	S	1057.0E	1057.0	1.0D	79.0			QL=2 ST=2 TYP=3
	2950	GORK	4	S/F	1057.5	1057.9	1.8	65.0			
	2850	CRIM	3	S	1057.6	1057.9	1.7	85.0	28.0		
	9300	KISV	45	C	1111.6	1114.5	8.4	22.0			
	9300	KISV	45	C	1111.6	1114.9		20.0			
	5900	KISV	45	C	1112.0	1114.4	6.0	11.0			
	5900	KISV	45	C	1112.0	1114.9		11.0			
	9100	GORK	2	S/F	1113.5	1114.4	2.0	21.0			
	2950	GORK	45	C	1113.9	1114.8	1.7	8.0			
	2850	CRIM	7	C	1114.0	1114.2	1.3	10.0	3.0		
	3013	IZMI	5	S	1114.0	1114.5	3.0	4.0	2.0		
	2850	CRIM	7	C	1114.0	1114.7		10.0			
	127	TORN	47	GB	1128.8	1129.8	2.1	250.0	30.0		
	100	GORK	46	C	1129.0	1131.1	6.0	970.0			
	100	GORK	46	C	1129.0	1131.8		3000.0			
	204	IZMI	41	F	1131.0	1131.5	2.0	96.0			
	260	ONDR	46	C	1132.5	1133.5	10.0	121.0			
	5900	KISV	4	S/F	1136.3	1139.3	4.4	16.0			
	5900	KISV	29	PBI	1136.3	1140.8	16.1	11.0			
	9300	KISV	21	GRF	1136.4	1139.5	20.0	16.0			
	3013	IZMI	5	S	1136.5	1139.0	4.0	6.0	3.0		
	100	GORK	8	S	1155.8	1156.1	0.6	430.0			
	5900	KISV	2	S/F	1207.1U	1209.0	4.9D	9.0			
	2950	GORK	1	S	1207.8	1208.9	3.3	6.0			
	2850	CRIM	3	S	1235.7	1236.3	22.0	31.0	10.0		
	5900	KISV	4	S/F	1235.9	1236.6	2.5	16.0			
	2950	GORK	2	S/F	1236.0	1236.7	2.3	21.0			
	1470	POTS	42	SER	1240.0	1240.5	7.6	140.0			
	2695	SVTO	8	S	1245.0E	1246.0	1.0D	43.0			QL=2 ST=2 TYP=3
	2850	CRIM	7	C	1245.6	1246.4		29.0			
	2950	GORK	2	S/F	1245.6	1246.6	2.7	18.0			
	2850	CRIM	7	C	1245.6	1245.9	2.0	18.0	10.0		
	3000	POTS	4	S/F	1245.8	1246.6	2.2	26.0			
	1415	SGMR	8	S	1246.0E	1246.0	1.0D	130.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1246.0E	1246.0	1.0D	120.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	1246.5	1246.6	0.9	14.0			
	2695	SGMR	8	S	1449.0E	1449.0	2.0D	130.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1449.0E	1450.0	1.0D	42.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1449.0E	1449.0	1.0D	120.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1449.0E	1449.0	1.0D	39.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1449.0E	1449.0	1.0D	140.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	1449.0E	1449.0	2.0D	160.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1449.0E	1449.0	1.0D	49.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1449.0E	1449.0	1.0D	85.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1449.0E	1450.0	1.0D	40.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1449.0E	1449.0	551.0D	49.0			QL=4 ST=1 TYP=3

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	6700	CUBA	45	C	1449.2	1449.9	3.8	120.0	18.0		12R
	15000	CUBA	1	S	1449.9	1450.0	0.9	30.0	15.0		POL DOWN
	9500	CUBA	29	PBI	1451.0E		17.0D	7.0U			RAIN
	6700	CUBA	29	PBI	1453.0		13.0	3.0	1.0		OOR
	410	SVTO	8	S	1457.0E	1458.0	2.0D	82.0			QL=4 ST=3 TYP=3
	245	SVTO	49	GB	1457.0E	1458.0	8.0D	510.0			QL=4 ST=3 TYP=6
	410	SGMR	8	S	1458.0E	1458.0	U	37.0			QL=2 ST=3 TYP=3
	245	SGMR	49	GB	1458.0E	1458.0	2.0D	580.0			QL=2 ST=3 TYP=6
	245	SVTO	8	S	1458.0E	1458.0	1.0D	360.0			QL=4 ST=2 TYP=3
	235	CUBA	6	S	1458.5	1458.6	1.5	328.0			
	245	SGMR	49	GB	1550.0E	1550.0	1.0D	920.0			QL=2 ST=2 TYP=6
	245	SGMR	8	S	1601.0E	1601.0	1.0D	260.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1625.0E	1625.0	1.0D	340.0			QL=2 ST=2 TYP=3
	6700	CUBA	46	C	1733.0	1735.0	7.0	179.0	37.0		19R
	15400	SGMR	4	S/F	1733.0E	1734.0	8.0D	260.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1733.0E	1735.0	8.0D	160.0			QL=4 ST=2 TYP=3
	2800	PENT	4	S/F	1733.8	1735.2	8.2	88.6	27.0		
	1415	PALE	8	S	1734.0E	1735.0	1.0D	53.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1734.0E	1735.0	3.0D	87.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1734.0E	1734.0	3.0D	160.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1734.0E	1734.0	1.0D	170.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1734.0E	1734.0	7.0D	170.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1734.0E	1735.0	7.0D	61.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1734.0E	1735.0	7.0D	93.0			QL=4 ST=2 TYP=3
	15000	CUBA	45	C	1734.2	1734.5	11.7	264.0	46.0		19R
	6700	CUBA	29	PBI	1740.0		12.0	13.0	6.0		16R
	2800	PENT	29	PBI	1742.5	1850.0		13.1			
	9500	CUBA	29	PBI	1743.0		13.0	14.0	7.0		1744-1754 DOWN
	610	PALE	8	S	1745.0E	1745.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1746.0E	1746.0	U	42.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1817.0E	1817.0	1.0D	970.0			QL=2 ST=2 TYP=6
	410	PALE	8	S	1820.0E	1820.0	1.0D	54.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1919.0E	1920.0	1.0D	760.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1919.0E	1920.0	1.0D	640.0			QL=2 ST=2 TYP=6
	610	SGMR	4	S/F	2006.0E	2006.0	234.0D	150.0			QL=2 ST=1 TYP=3
	410	SGMR	49	GB	2007.0E	2009.0	7.0D	590.0			QL=2 ST=3 TYP=6
	610	PALE	49	GB	2008.0E	2009.0	1.0D	3000.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2008.0E	2008.0	U	2000.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	2008.0E	2009.0	1.0D	450.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	2008.0E	2008.0	1.0D	1400.0			QL=2 ST=2 TYP=6
	610	SGMR	49	GB	2008.0E	2009.0	6.0D	2000.0			QL=2 ST=3 TYP=6
	2800	PENT	20	GRF	2014.0	2106.0	160.0	11.9	5.0		
	610	PALE	8	S	2025.0E	2025.0	1.0D	90.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2025.0E	2030.0	8.0D	73.0			QL=2 ST=2 TYP=5
	1415	PALE	8	S	2028.0E	2028.0	1.0D	42.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	2028.0E	2030.0	4.0D	100.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	2028.0E	2028.0	1.0D	42.0			QL=4 ST=2 TYP=3
15	235	CUBA	44	NS	1327.0E		484.0D		14.0		
	2695	LEAR	4	S/F	0128.0E	0129.0	3.0D	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0128.0E	0129.0	3.0D	80.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0128.0E	0129.0	3.0D	180.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0128.0E	0129.0	3.0D	67.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0128.0E	0129.0	3.0D	210.0			QL=4 ST=2 TYP=3
	35000	NOBE	4	S/F	0128.9	0129.3	5.0	85.0			80GHZ:O
	17000	NOBE	4	S/F	0128.9	0129.3	26.0	158.0			
	15400	PALE	8	S	0129.0E	0129.0	1.0D	160.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	0129.0E	0129.0	1.0D	90.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0141.0E	0144.0	3.0D	1800.0			QL=4 ST=2 TYP=7
	245	PALE	49	GB	0141.0E	0141.0	1.0D	650.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0143.0E	0144.0	1.0D	89.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0143.0E	0144.0	1.0D	42.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0143.0E	0144.0	1.0D	43.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0144.0E	0144.0	U	26.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0144.0E	0144.0	U	20.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0144.0E	0144.0	U	2500.0			QL=4 ST=2 TYP=6
	245	PALE	4	S/F	0311.0E	0312.0	3.0D	69.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0312.0E	0312.0	3.0D	8.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0314.0E	0315.0	2.0D	54.0			QL=4 ST=3 TYP=3

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
15	245	PALE	8	S	0315.0E	0315.0	1.0D	54.0			QL=4 ST=2 TYP=3
	5900	KISV	22	GRF	0505.3	0517.9	19.7	4.0			
	2950	GORK	1	S	0507.8	0508.3	1.7	6.0			
	5900	KISV	29	PBI	0603.7	0616.0	27.4	25.0			
	5900	KISV	47	GB	0603.7	0613.1	12.3	215.0			
	9100	GORK	23	GRF	0606.0	0615.5	25.2	12.0			
	2950	GORK	23	GRF	0606.3	0920.8	413.7U	11.0			
	9300	KISV	23	GRF	0606.8	0611.2	43.8	9.0			
	9100	GORK	2	S/F	0606.8	0607.4	1.4	8.0			
	2950	GORK	2	S/F	0606.9	0607.4	1.2	4.0			
	3013	IZMI	5	S	0611.7	0613.0	3.0	27.0	13.0		
	4995	LEAR	4	S/F	0612.0E	0613.0	5.0D	170.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0612.0E	0613.0	3.0D	280.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0612.0E	0613.0	D	160.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0612.0E	0613.0	D	40.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0612.0E	0613.0	4.0D	160.0			QL=2 ST=2 TYP=3
	410	SVTO	49	GB	0612.0E	0612.0	1.0D	560.0			QL=4 ST=2 TYP=6
	8800	SVTO	8	S	0612.0E	0613.0	2.0D	230.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0612.0E	0613.0	2.0D	58.0			QL=2 ST=2 TYP=3
	9300	KISV	47	GB	0612.2	0613.2	9.1	282.0			
	9100	GORK	3	S	0612.3	0613.2	3.2	256.0			
	2950	GORK	3	S	0612.5	0613.2	3.6	40.0			
	2840	PEKG	5	S	0612.5	0613.4	6.5	52.2			
	2850	CRIM	3	S	0612.7	0613.2	2.3	54.0	18.0		
	17000	NOBE	1	S	0612.7	0613.2	3.0	29.0			80, 35GHZ:O
	950	GORK	3	S	0612.8	0613.2	4.5	31.0			
	650	GORK	4	S/F	0612.8	0613.2	4.5	80.0			
	245	LEAR	8	S	0613.0E	0613.0	U	12.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0613.0E	0613.0	U	110.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0613.0E	0613.0	U	27.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0618.0	0618.2	2.0	20.0			
	15400	LEAR	8	S	0700.0E	0701.0	2.0D	160.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0700.0E	0701.0	3.0D	120.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0700.0E	0701.0	2.0D	190.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0700.0E	0701.0	2.0D	170.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0700.0E	0701.0	2.0D	110.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0700.0E	0701.0	2.0D	110.0			QL=4 ST=2 TYP=3
	9300	KISV	29	PBI	0700.0	0706.2	40.4	17.0			
	9100	GORK	4	S/F	0700.0U	0701.3	3.0D	217.0			
	9300	KISV	47	GB	0700.0	0701.3	6.2	278.0			
	5900	KISV	29	PBI	0700.0	0707.3	52.7	17.0			
	5900	KISV	47	GB	0700.0	0701.4	7.3	162.0			
	2950	GORK	3	S	0700.0U	0701.7	3.4D	34.0			
	3013	IZMI	5	S	0700.0	0701.7	10.0	37.0	18.0		
	2840	PEKG	5	S	0700.0	0701.9	9.0	48.9			
	17000	NOBE	4	S/F	0700.3	0701.2	11.0	107.0			80, 35GHZ:NO OB
	9500	POTS	4	S/F	0700.5	0701.4	2.9	145.0			
	3000	POTS	4	S/F	0700.5	0701.6	3.0	35.0			
	2850	CRIM	3	S	0700.7	0701.6	2.8	45.0	15.0		
	2695	LEAR	8	S	0701.0E	0701.0	1.0D	36.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0701.0E	0701.0	1.0D	44.0			QL=2 ST=2 TYP=3
	1470	POTS	29	PBI	0701.0	0701.7	5.6	6.0			
	950	GORK	1	S	0701.3	0701.4	0.2	6.0			
	650	GORK	2	S/F	0701.3	0701.5	0.4	8.0			
	9100	GORK	29	PBI	0703.0	0703.0	84.0	18.0			
	3100	BERN	4	S/F	0902.9	0915.4	57.2	3.4			
	11800	BERN	4	S/F	0903.7	0915.4	57.3U	3.8			
	5200	BERN	4	S/F	0907.0	0914.6	52.8	8.6			
	5900	KISV	29	PBI	0912.0	0916.4	36.7	40.0			
	5900	KISV	45	C	0912.0	0915.5		98.0			
	5900	KISV	45	C	0912.0	0914.7	4.6	106.0			
	8400	BERN	4	S/F	0912.7	0915.3	46.9	10.0			
	3013	IZMI	7	C	0913.5	0915.5	11.5	28.0	14.0		
	3000	POTS	29	PBI	0913.5	0915.5	34.5	29.0			
	1470	POTS	4	S/F	0913.6	0914.5	6.4	5.0			
	2950	GORK	2	S/F	0913.8	0915.5	6.2	25.0			
	9300	KISV	29	PBI	0913.9	0916.1	43.6	23.0			
	9300	KISV	45	C	0913.9	0915.4	2.2	85.0			
	9300	KISV	45	C	0913.9	0914.7		66.0			

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
15	4995	LEAR	4	S/F	0914.0E	0914.0	8.0D	80.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0914.0E	0914.0	2.0D	49.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0914.0E	0915.0	2.0D	74.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0914.0E	0914.0	2.0D	69.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0914.0E	0915.0	1.0D	70.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0914.0E	0914.0	1.0D	42.0			QL=2 ST=2 TYP=3
	2850	CRIM	46	C	0914.0	0915.4		38.0			
	9100	GORK	46	C	0914.0	0915.4		84.0			
	9500	POTS	29	PBI	0914.0	0915.4	39.8	56.0			
	2850	CRIM	46	C	0914.0	0914.7	5.5	46.0	15.0		
	9100	GORK	46	C	0914.0	0914.7	2.2	60.0			
	650	GORK	2	S/F	0915.3	0916.1	1.6	6.0			
	950	GORK	1	S	0915.3	0916.1	1.6	5.0			
	9100	GORK	29	PBI	0916.2	0916.2	32.8	20.0			
	9100	GORK	22	GRF	1001.1	1021.0	25.1	5.0			
	5900	KISV	2	S/F	1032.2	1036.6	9.9	13.0			
	127	TORN	2	S/F	1033.6	1033.7	0.6	210.0	100.0		
	9300	KISV	2	S/F	1034.7	1035.3	5.4	7.0			
	3013	IZMI	2	S/F	1120.5	1121.7	2.0	5.0			
	5900	KISV	4	S/F	1121.0	1121.3	1.5	17.0			
	9300	KISV	2	S/F	1121.0	1121.3	1.1	20.0			
	2950	GORK	2	S/F	1121.1	1121.7	0.9	12.0			
	260	ONDR	8	S	1122.5	1123.0	1.0	44.0			
	5900	KISV	2	S/F	1232.4	1233.9	9.3	7.0			
	410	SGMR	49	GB	1412.0E	1412.0	U	990.0			QL=2 ST=2 TYP=6
	245	SGMR	49	GB	1412.0E	1412.0	U	580.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1412.0E	1412.0	U	510.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1412.0E	1412.0	1.0D	780.0			QL=4 ST=2 TYP=6
	6700	CUBA	21	GRF	1539.0	1557.0	72.0	26.0			8L RAIN
	6700	CUBA	46	C	1544.3	1549.5	11.7	71.0			4R RAIN
	9500	CUBA	21	GRF	1545.0	1553.0	82.0	11.0			RAIN
	4995	SGMR	8	S	1548.0E	1549.0	2.0D	62.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1548.0	1549.2	3.0	56.0			RAIN
	8800	SGMR	8	S	1549.0E	1549.0	U	38.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2235.0E	2235.0	3.0D	60.0			QL=4 ST=2 TYP=3
16	100	GORK	44	NS	0430.0E		180.0D		10.0		
	200	GORK	44	NS	0430.0E		195.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	10.0			
	280	CUBA	44	NS	1550.0E		331.0D		29.0		
	9100	GORK	22	GRF	0537.4U	0600.0U	112.6D	9.0			
	5900	KISV	45	C	0601.9	0612.5		10.0			
	5900	KISV	45	C	0601.9	0614.5	27.6	17.0			
	2950	GORK	21	GRF	0609.0U	0614.6	52.0D	6.0			
	9300	KISV	2	S/F	0612.4	0614.5	3.9	5.0			
	2950	GORK	1	S	0620.8	0621.8	2.3	5.0			
	2950	GORK	1	S	0743.7	0744.3	1.4	4.0			
	2950	GORK	20	GRF	0916.5	0924.1	16.5	2.0			
	260	ONDR	41	F	0948.5	1051.5	87.0	418.0			
	127	TORN	45	C	1047.4	1052.1	5.2	50.0	20.0		
	204	IZMI	42	SER	1047.8	1052.0	8.0	2700.0			
	245	SVTO	49	GB	1051.0E	1051.0	1.0D	1000.0			QL=4 ST=2 TYP=6
	200	GORK	4	S/F	1051.7	1051.9	1.1	4800.0			
	9500	POTS	4	S/F	1258.0	1258.6	1.5	56.0			
	9500	CUBA	40	F	1430.0	1440.0	26.0	18.0	9.0		
	6700	CUBA	40	F	1430.0	1447.0	21.0	9.0	4.0		00R
	15000	CUBA	2	S/F	1452.8	1453.3	6.2	29.0	14.0		12L
	6700	CUBA	2	S/F	1452.8	1453.4	6.7	20.0	10.0		12L
	245	SGMR	8	S	1603.0E	1604.0	1.0D	190.0			QL=2 ST=2 TYP=3
	6700	CUBA	23	GRF	1642.0	1653.0	24.0	32.0			16L 1703-1705 0
	2800	PENT	3	S	1642.0	1642.8	2.2	19.7	6.0		
	2800	PENT	3	S	1647.2	1654.2	16.7	15.7	5.0		
	9500	CUBA	23	GRF	1650.0	1652.0	15.0	17.0	8.0		
	4995	SGMR	8	S	1652.0E	1653.0	2.0D	33.0			QL=4 ST=2 TYP=3
17	200	GORK	44	NS	0400.0E		540.0D		5.0		
	100	GORK	44	NS	0430.0E		90.0D		5.0		
	127	TORN	44	NS	0620.0E		520.0D		8.0		V=2
	100	GORK	43	NS	0815.0		285.0D		5.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
17	235	CUBA	44	NS	1325.0E		485.0D		19.0		
	245	PALE	43	NS	2230.0	2233.0	90.0	63.0			QL=2 ST=1 TYP=1
	204	IZMI	5	S	0608.5	0608.7	0.4	96.0			
	204	IZMI	8	S	0628.0	0628.1	0.1	73.0			
	1415	LEAR	8	S	0937.0E	0937.0	1.0D	160.0			QL=2 ST=2 TYP=3
	2950	GORK	20	GRF	0952.0	1052.6	115.8	6.0			
	260	ONDR	8	S	1150.5	1151.5	1.5	32.0			
	9500	POTS	4	S/F	1305.6	1307.5	3.4	93.0			
18	100	GORK	44	NS	0430.0E		450.0D		5.0		
	200	GORK	44	NS	0430.0E		450.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	20.0			
	127	TORN	44	NS	0620.0E		520.0D		16.0		V=2
	235	CUBA	44	NS	1356.0E		423.0D		15.0		
	280	CUBA	44	NS	1520.0E		347.0D		24.0		
	2840	PEKG	5	S	0112.0	0113.8	6.0	21.7			
	8800	LEAR	8	S	0113.0E	0113.0	1.0D	16.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0113.0E	0113.0	2.0D	58.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0113.0E	0113.0	1.0D	19.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0113.0E	0113.0	1.0D	51.0			QL=4 ST=2 TYP=3
	2840	PEKG	4	S/F	0622.0	0623.4	7.0	7.8			
	5900	KISV	20	GRF	1117.5	1119.4	13.0	4.0			
	245	SGMR	8	S	1900.0E	1900.0	U	88.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	1919.0E	1920.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2011.0E	2011.0	U	130.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	2011.0E	2011.0	U	140.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	2014.0E	2014.0	U	220.0			QL=2 ST=2 TYP=3
19	127	TORN	43	NS	0820.0		300.0		3.0		V=0
	235	CUBA	44	NS	1354.0E		306.0D		13.0		
	280	CUBA	44	NS	1514.0E		346.0D		23.0		
	245	LEAR	8	S	0136.0E	0137.0	1.0D	110.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0257.0E	0259.0	4.0D	22.0			QL=2 ST=2 TYP=3
	245	LEAR	4	S/F	0258.0E	0259.0	3.0D	53.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0413.0E	0413.0	1.0D	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0541.0E	0541.0	U	71.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0942.5	0943.0	1.0	44.0			
	204	IZMI	4	S/F	1051.3	1051.5	0.5	57.0			
	260	ONDR	8	S	1154.0	1154.0	0.5	58.0			
	204	IZMI	8	S	1154.5	1154.6	0.5	80.0			
20	235	CUBA	44	NS	1352.0E		406.0D		14.0		
	280	CUBA	44	NS	1625.0E		253.0D		20.0		
	2950	GORK	1	S	0657.3	0658.1	1.5	2.0			
	2950	GORK	1	S	0956.5	0957.3	2.3	2.0			
	204	IZMI	42	SER	1131.7	1134.2	8.0	105.0			
	260	ONDR	46	C	1132.0	1135.5	7.0	94.0			
	245	SVTO	8	S	1135.0E	1135.0	1.0D	97.0			QL=2 ST=2 TYP=3
	204	IZMI	41	F	1153.2	1153.5	1.5	35.0			
	127	TORN	42	SER	1232.0	1234.6	8.6	440.0	20.0		
	127	TORN	4	S/F	1253.0	1253.7	1.8	260.0	80.0		
21	235	CUBA	44	NS	1421.0E		449.0D		14.0		
	280	CUBA	44	NS	1523.0E		397.0D		19.0		
	2840	PEKG	45	C	0056.0	0058.3	10.0	72.8			
	610	LEAR	49	GB	0057.0E	0058.0	6.0D	650.0			QL=4 ST=2 TYP=7
	4995	LEAR	4	S/F	0057.0E	0058.0	4.0D	98.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0057.0E	0058.0	4.0D	61.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0057.0E	0100.0	5.0D	420.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0057.0E	0058.0	9.0D	270.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0057.0E	0058.0	2.0D	43.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0057.0E	0058.0	2.0D	65.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0057.0E	0058.0	5.0D	110.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0057.0E	0058.0	4.0D	56.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0057.0E	0058.0	4.0D	73.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0057.0E	0058.0	2.0D	38.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0057.0E	0058.0	2.0D	48.0			QL=2 ST=2 TYP=3
	35000	NOBE	1	S	0057.6	0058.1	3.0	45.0			80GHZ:0
	17000	NOBE	1	S	0057.6	0058.1	5.0	30.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
21	2840	PEKG	1	S	0226.0	0227.0	2.0	4.1			
	2840	PEKG	1	S	0245.0	0245.5	1.0	3.6			
	2840	PEKG	3	S	0605.0	0605.8	19.0	70.9			
	2950	GORK	3	S	0609.7	0610.1	1.8	49.0			
	9100	GORK	1	S	0609.8	0610.1	0.9	10.0			
	650	GORK	8	S	0609.9	0610.1	0.5	32.0			
	950	GORK	3	S	0609.9	0610.3	0.7	14.0			
	2695	LEAR	8	S	0610.0E	0610.0	1.0D	56.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0610.0E	0610.0	U	68.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0610.0E	0610.0	U	370.0			QL=4 ST=2 TYP=3
	5900	KISV	4	S/F	0610.0	0610.2	0.7	24.0			
	2850	CRIM	3	S	0610.0	0610.3	1.5	70.0	23.0		
	2850	CRIM	29	PBI	0610.0	0611.5	10.0	16.0	5.0		
	5900	KISV	29	PBI	0610.0	0610.7	20.3	8.0			
	650	GORK	29	PBI	0610.4	0610.4	9.6	4.0			
	950	GORK	29	PBI	0610.6	0610.6	14.6	12.0			
	2950	GORK	30	PBI	0611.6	0611.6	27.4	16.0			
	2840	PEKG	4	S/F	0624.0	0628.0	13.0	14.3			
	2850	CRIM	1	S	0628.2	0632.2	6.0	13.0	4.0		
	2950	GORK	1	S	0630.5	0632.0	3.1	6.0			
	2950	GORK	20	GRF	0830.0	1059.7	270.0	9.0			
	9100	GORK	22	GRF	0918.0	1104.5	227.0	16.0			
	3000	POTS	42	SER	1242.5U	1250.6	9.9D	13.0			
	2850	CRIM	1	S	1249.8	1250.8	2.0	13.0	4.0		
	1470	POTS	2	S/F	1249.8	1250.8	2.2	4.0			
	3000	POTS	4	S/F	1335.5	1336.3	2.5	9.0			
	2800	PENT	3	S	2035.5	2036.9	4.5	13.5	4.0		
	245	SGMR	8	S	2036.0E	2037.0	1.0D	110.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	2036.0E	2036.0	1.0D	32.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2036.0E	2036.0	1.0D	36.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	2036.2	2036.9	3.3	25.0	12.0		7L
	17000	NOBE	2	S/F	2229.1	2233.5	13.0	58.0			80, 35GHZ:0
22	235	CUBA	44	NS	1328.0E		466.0D		14.0		
	280	CUBA	44	NS	1623.0E		291.0D		20.0		
	2840	PEKG	1	S	0101.0	0104.7		5.2			
	245	LEAR	8	S	0342.0E	0342.0	1.0D	65.0			QL=4 ST=2 TYP=3
	9100	GORK	23	GRF	0433.0E	1110.2	507.0D	49.0			
	2840	PEKG	1	S	0523.0	0524.6	3.0	3.6			
	9300	KISV	21	GRF	0530.6	0531.9	47.2	12.0			
	5900	KISV	2	S/F	0530.8	0531.9	6.1	14.0			
	650	GORK	1	S	0605.2	0605.4	0.4	5.0			
	950	GORK	1	S	0605.2	0605.4	0.4	3.0			
	9300	KISV	21	GRF	0625.7	0712.0	125.5	38.0			
	5900	KISV	20	GRF	0628.2	0713.4	101.0	25.0			
	2840	PEKG	1	S	0632.0	0636.4	7.0	5.6			
	2950	GORK	22	GRF	0633.3	1230.2	386.7	21.0			
	9500	POTS	20	GRF	0651.5U	0712.0	93.0U	17.0			
	2840	PEKG	1	S	0652.0	0655.0	6.0	3.6			
	2840	PEKG	1	S	0702.0	0705.2	7.0	5.1			
	1470	POTS	4	S/F	0705.0	0705.4	1.4	14.0			
	2850	CRIM	24	R	0730.0	0747.0		8.0			
	950	GORK	2	S/F	0739.7	0739.8	0.5	27.0			
	650	GORK	2	S/F	0739.7	0739.8	0.5	11.0			
	9300	KISV	21	GRF	1101.0	1110.1	49.2	17.0			
	5900	KISV	21	GRF	1101.2	1110.1	51.4	11.0			
	9500	POTS	20	GRF	1104.5	1110.2	35.1	13.0			
	9300	KISV	23	GRF	1214.6	1233.0	33.3	25.0			
	5900	KISV	23	GRF	1214.6	1233.6	36.0	21.0			
	9500	POTS	23	GRF	1215.0	1225.3	64.0	23.0			
	3000	POTS	22	GRF	1215.1	1233.6	32.4	8.0			
	9100	GORK	46	C	1215.2	1225.2		29.0			
	9100	GORK	46	C	1215.2	1215.7	44.8	8.0			
	9300	KISV	4	S/F	1225.3	1225.4	4.7	27.0			
	245	SGMR	8	S	1229.0E	1230.0	1.0D	76.0			QL=2 ST=2 TYP=3
	9500	CUBA	2	S/F	1413.3	1414.7	2.9	8.0	4.0		
	1470	POTS	42	SER	1416.4	1417.0	12.3	11.0			
	9500	CUBA	2	S/F	1420.2	1421.2	2.0	6.0	3.0		
	9500	CUBA	1	S	1442.5	1443.2	1.1	6.0	3.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
22	15000	CUBA	1	S	1442.8	1443.1	2.5	36.0	18.0		10R
	15000	CUBA	20	GRF	1811.0	1906.0	78.0	24.0	22.0		00R
	2800	PENT	3	S	1826.9	1829.4	16.1	30.3	9.0		
	9500	CUBA	21	GRF	1827.0	1848.0	67.0	21.0			RAIN
	6700	CUBA	21	GRF	1827.0	1849.0	163.0D	20.0			00R RAIN, 2110
	2695	PALE	4	S/F	1828.0E	1829.0	3.0D	38.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1828.0E	1829.0	1.0D	42.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1828.0E	1829.0	4.0D	40.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1828.0E	1829.0	332.0D	37.0			QL=4 ST=1 TYP=3
	6700	CUBA	2	S/F	1828.0	1829.2	4.0	13.0			26R RAIN
	8800	SGMR	8	S	1831.0E	1832.0	1.0D	21.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1837.0E	1837.0	1.0D	22.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1837.0E	1839.0	34.0D	60.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1838.0	1839.1	3.9	36.0			RAIN
	6700	CUBA	1	S	1838.1	1839.1	3.8	17.0			9R RAIN
	8800	PALE	8	S	1839.0E	1839.0	U	31.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1843.0E	1843.0	U	29.0			QL=2 ST=2 TYP=3
	2800	PENT	29	PBI	1844.0	1914.0	100.0	11.8	5.0		
	15400	SGMR	8	S	1901.0E	1901.0	U	33.0			QL=4 ST=2 TYP=3
23	235	CUBA	44	NS	1334.0E		466.0D		14.0		
	280	CUBA	44	NS	1622.0E		236.0D		21.0		
	2840	PEKG	1	S	0052.0	0053.4	6.0	4.8			
	17000	NOBE	1	S	0053.1	0053.3	1.0	24.0			80, 35GHZ:0
	17000	NOBE	1	S	0118.1	0118.4	2.0	23.0			80, 35GHZ:0
	9300	KISV	22	GRF	0517.5	0519.7	15.0	7.0			
	5900	KISV	22	GRF	0517.6	0622.0		7.0			
	5900	KISV	2	S/F	0558.2	0558.3	1.1	5.0			
	9300	KISV	1	S	0558.3	0558.5	0.7	7.0			
	5900	KISV	4	S/F	0615.9	0618.2	8.1	46.0			
	4995	LEAR	4	S/F	0617.0E	0618.0	1063.0D	38.0			QL=4 ST=1 TYP=3
	9300	KISV	4	S/F	0617.4	0618.1	6.7	31.0			
	9100	GORK	2	S/F	0617.8	0618.2	1.3	28.0			
	5900	KISV	2	S/F	0647.3	0650.7	8.5	9.0			
	9300	KISV	2	S/F	0648.4	0653.0	8.5	21.0			
	3000	POTS	40	F	0648.4	0651.0	6.0	8.0			
	9500	POTS	4	S/F	0650.0	0652.9	5.0	13.0			
	11800	BERN	4	S/F	0712.7	0733.4	42.9U	9.9			
	8400	BERN	4	S/F	0718.9	0733.4	34.9	6.6			
	19600	BERN	4	S/F	0722.1	0733.6	21.3	7.7			
	9500	POTS	42	SER	0723.4	0733.3	20.1	60.0			
	9300	KISV	2	S/F	0724.5	0725.3	3.5	12.0			
	5900	KISV	2	S/F	0725.0	0725.2	9.6	12.0			
	9300	KISV	45	C	0729.8	0734.0		76.0			
	9300	KISV	45	C	0729.8	0733.4	5.6	78.0			
	9300	KISV	30	PBI	0729.8	0735.4	18.0	15.0			
	9100	GORK	45	C	0731.8	0734.1		56.0			
	9100	GORK	45	C	0731.8	0733.5	4.2	56.0			
	15400	LEAR	8	S	0733.0E	0733.0	1.0D	66.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0733.0E	0733.0	1.0D	61.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0733.0E	0733.0	1.0D	55.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0733.0E	0733.0	1.0D	65.0			QL=2 ST=2 TYP=3
	5900	KISV	21	GRF	0733.0	0734.1	19.6	11.0			
	2950	GORK	21	GRF	0734.4	1049.7	307.6	15.0			
	2850	CRIM	1	S	0749.5	0752.0	6.0	4.9	2.0		
	9300	KISV	2	S/F	0751.4	0751.9	1.1	5.0			
	9300	KISV	20	GRF	0757.7	0808.9	34.1	12.0			
	9100	GORK	23	GRF	0803.0U	1052.6	237.0U	21.0			
	5900	KISV	2	S/F	0807.8	0809.2	9.5	7.0			
	11800	BERN	4	S/F	0834.9	0841.9	22.8	10.1			
	19600	BERN	3	S	0837.2	0841.7	12.2	6.5			
	8400	BERN	3	S	0837.4	0841.8	24.6	5.7			
	35000	BERN	3	S	0838.9	0842.1	6.8	2.7			
	9300	KISV	4	S/F	0839.4	0841.2	3.8	67.0			
	9300	KISV	29	PBI	0839.4	0843.2	15.2	23.0			
	9100	GORK	2	S/F	0839.5	0842.0	5.5	69.0			
	5900	KISV	2	S/F	0840.9	0842.1	3.8	10.0			
	8800	SVTO	8	S	0841.0E	0842.0	2.0D	79.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0841.0E	0841.0	1.0D	98.0			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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OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
23	9500	POTS	42	SER	0841.0U	0842.0	49.0D	60.0			
	3000	POTS	2	S/F	0843.0	0844.0	1.6	5.0			
	3000	POTS	21	GRF	0906.5	1009.0	148.5	22.0			
	11800	BERN	46	C	0909.9	0917.3	20.6	5.0			
	8400	BERN	4	S/F	0913.3	0916.4	19.5	4.5			
	9100	GORK	46	C	0914.1	0917.4		43.0			
	9100	GORK	46	C	0914.1	0916.4	6.9	57.0			
	19600	BERN	46	C	0914.3	0917.3	7.4	1.5			
	9300	KISV	30	PBI	0914.4	0918.0	19.2	43.0			
	9300	KISV	4	S/F	0914.4	0916.4	3.6	58.0			
	5900	KISV	22	GRF	0914.8	0916.4	10.6	11.0			
	8800	SVTO	4	S/F	0915.0E	0916.0	4.0D	66.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0916.0E	0917.0	1.0D	42.0			QL=2 ST=2 TYP=3
	9300	KISV	2	S/F	0920.3	0921.4	1.7	6.0			
	950	GORK	22	GRF	0930.5	0933.8	13.5	6.0			
	9300	KISV	2	S/F	0945.0	0946.6	9.5	7.0			
	8800	SVTO	8	S	1004.0E	1004.0	U	250.0			QL=2 ST=2 TYP=3
	11800	BERN	46	C	1014.1	1033.3	49.7U	4.0			
	8400	BERN	46	C	1014.2	1033.3	49.9U	4.5			
	9300	KISV	2	S/F	1016.4	1017.0	3.5	5.0			
	5200	BERN	46	C	1022.4	1033.5	40.5	5.5			
	3100	BERN	46	C	1023.1	1033.3	39.8	3.4			
	5900	KISV	23	GRF	1023.4	1041.5	44.3	38.0			
	19600	BERN	46	C	1026.5	1033.2	37.4U	3.8			
	2850	CRIM	29	PBI	1029.0	1046.0		8.0			
	2850	CRIM	45	C	1029.0	1041.4		29.0			
	5900	KISV	4	S/F	1029.0	1033.4	7.9	62.0			
	2850	CRIM	45	C	1029.0	1033.5	17.0	35.0	12.0		
	9100	GORK	46	C	1029.3	1042.4		25.0			
	9100	GORK	46	C	1029.3	1033.4	21.7	50.0			
	9300	KISV	23	GRF	1029.4	1042.8	49.3	36.0			
	9500	POTS	42	SER	1029.5	1033.5	34.5	33.0			
	3000	POTS	42	SER	1029.6	1033.2	19.4	33.0			
	2950	GORK	45	C	1029.6	1041.4		15.0			
	2950	GORK	45	C	1029.6	1033.4	16.9	27.0			
	410	SVTO	8	S	1030.0E	1030.0	1.0D	76.0			QL=4 ST=2 TYP=3
	9300	KISV	4	S/F	1030.0	1033.5	6.6	35.0			
	1470	POTS	40	F	1030.6	1033.8	4.0	12.0			
	15400	SVTO	4	S/F	1031.0E	1033.0	3.0D	50.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	1031.0E	1033.0	3.0D	65.0			QL=2 ST=2 TYP=3
	950	GORK	2	S/F	1031.7	1034.4		13.0			
	2695	SVTO	8	S	1032.0E	1033.0	2.0D	35.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1032.0E	1033.0	2.0D	49.0			QL=2 ST=2 TYP=3
	650	GORK	4	S/F	1032.8	1034.4		16.0			
	5900	KISV	2	S/F	1052.0	1052.7	4.5	10.0			
	9300	KISV	1	S	1130.9	1131.3	0.7	7.0			
	9300	KISV	2	S/F	1148.6	1149.2	2.0	9.0			
	650	GORK	4	S/F	1219.5	1219.8	0.6	22.0			
	950	GORK	2	S/F	1219.5	1219.8	0.6	15.0			
	5900	KISV	2	S/F	1229.3	1230.4	2.8	7.0			
	9500	CUBA	1	S	1349.9	1350.5	0.9	6.0	3.0		
	9500	CUBA	1	S	1359.0	1359.5	1.5	9.0	4.0		
	6700	CUBA	1	S	1359.3	1359.5	0.7	5.0	2.0		28L
	9500	CUBA	1	S	1456.0	1458.0	8.0	5.0	2.0		
	9500	CUBA	1	S	1519.8	1521.8	4.2	5.0	2.0		
	9500	CUBA	45	C	1624.8	1627.3	10.7	154.0	19.0		
	15400	SGMR	8	S	1626.0E	1627.0	2.0D	390.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1626.0E	1627.0	3.0D	150.0			QL=4 ST=2 TYP=3
	15000	CUBA	4	S/F	1626.5	1627.4	5.3	356.0	27.0		13L
	6700	CUBA	45	C	1626.9	1628.3	8.4	37.0	10.0		8R
	4995	SGMR	8	S	1627.0E	1628.0	1.0D	45.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1654.9	1655.9	2.1	4.0	2.0		00R
	6700	CUBA	2	S/F	1657.3	1657.6	1.6	3.0	1.0		00R
	9500	CUBA	2	S/F	1704.0	1704.6	3.0	6.0	3.0		
	245	SGMR	8	S	1729.0E	1729.0	U	270.0			QL=2 ST=2 TYP=3
	280	CUBA	6	S	1729.7	1730.2	1.9	545.0			
	235	CUBA	6	S	1729.7	1730.2	1.9	180.0			
	9500	CUBA	2	S/F	1736.3	1736.8	1.7	13.0	6.0		
	9500	CUBA	2	S/F	1809.4	1810.0	1.9	8.0	4.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
23	9500	CUBA	2	S/F	1814.8	1815.3	2.3	8.0	4.0		
	15000	CUBA	2	S/F	1825.1	1827.4	7.4	27.0	13.0		16L
	9500	CUBA	1	S	1838.4	1839.2	2.1	13.0	6.0		
	6700	CUBA	1	S	1838.8	1839.2	1.1	5.0	2.0		00R
	6700	CUBA	1	S	1920.5	1920.8	2.0	3.0	1.0		54L
	6700	CUBA	21	GRF	1936.0	2050.0	112.0	25.0			00R 2128 OFF
	6700	CUBA	1	S	1954.1	1954.5	0.9	5.0	2.0		14R
	6700	CUBA	2	S/F	2035.6	2035.9	1.4	11.0	5.0		8R
	15000	CUBA	1	S	2046.3	2046.9	2.2	19.0	9.0		39L
	8800	PALE	8	S	2056.0E	2057.0	2.0D	67.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2056.0E	2057.0	1.0D	41.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	2056.0E	2057.0	2.0D	91.0			QL=2 ST=2 TYP=3
	6700	CUBA	4	S/F	2056.0	2056.9	7.0	62.0			9R 2100-2103 DO
	9500	CUBA	45	C	2056.3	2056.9	5.7	81.0	21.0		
	15000	CUBA	2	S/F	2056.4	2057.0	4.3	59.0	29.0		9L
	4995	SGMR	8	S	2057.0E	2057.0	U	25.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	2224.0E	2224.0	1.0D	79.0			QL=2 ST=2 TYP=3
	15400	PALE	8	S	2224.0E	2224.0	1.0D	63.0			QL=2 ST=2 TYP=3
24	280	CUBA	44	NS	1357.0E		473.0D		23.0		
	235	CUBA	44	NS	1357.0E		473.0D		14.0		
	15400	LEAR	8	S	0007.0E	0007.0	1.0D	58.0			QL=2 ST=2 TYP=3
	15400	PALE	8	S	0007.0E	0007.0	1.0D	59.0			QL=2 ST=2 TYP=3
	4995	PALE	4	S/F	0040.0E	0046.0	36.0D	100.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0042.0E	0046.0	29.0D	96.0			QL=4 ST=2 TYP=3
	15400	LEAR	20	GRF	0042.0E	0049.0	34.0D	110.0			QL=2 ST=2 TYP=2
	4995	LEAR	4	S/F	0042.0E	0046.0	34.0D	85.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0043.0E	0046.0	20.0D	73.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0044.0E	0048.0	5.0D	26.0			QL=4 ST=2 TYP=5
	2695	PALE	4	S/F	0044.0E	0044.0	5.0D	52.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0044.0E	0044.0	32.0D	51.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0045.0E	0046.2	6.0D	28.2			
	410	LEAR	8	S	0046.0E	0046.0	2.0D	73.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0046.0E	0046.0	1.0D	32.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0046.0E	0046.0	U	24.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0046.0E	0047.0	1.0D	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0120.0E	0121.0	6.0D	93.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0120.0E	0121.0	3.0D	100.0			QL=4 ST=3 TYP=3
	4995	PALE	8	S	0120.0E	0121.0	2.0D	72.0			QL=4 ST=3 TYP=3
	15400	LEAR	4	S/F	0120.0E	0121.0	12.0D	290.0			QL=2 ST=2 TYP=3
	35000	NOBE	7	C	0120.2	0121.3	2.5	227.0			80GHZ:0, 17GHZ:
	2695	LEAR	4	S/F	0121.0E	0130.0	11.0D	33.0			QL=4 ST=2 TYP=5
	4995	LEAR	4	S/F	0121.0E	0121.0	11.0D	47.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0123.0	0124.7	3.0	5.8			
	4995	LEAR	49	GB	0236.0E	0238.0	6.0D	1400.0			QL=4 ST=2 TYP=7
	8800	LEAR	49	GB	0236.0E	0238.0	12.0D	4600.0			QL=4 ST=2 TYP=7
	15400	LEAR	49	GB	0236.0E	0238.0	18.0D	7600.0			QL=2 ST=2 TYP=7
	4995	PALE	49	GB	0236.0E	0238.0	11.0D	1200.0			QL=4 ST=3 TYP=6
	15400	PALE	49	GB	0236.0E	0238.0	19.0D	10000.0			QL=2 ST=3 TYP=6
	8800	PALE	49	GB	0236.0E	0238.0	25.0D	3800.0			QL=4 ST=3 TYP=6
	2840	PEKG	3	S	0236.0	0238.2	13.0	118.0			
	35000	NOBE	47	GB	0236.9	0238.2	3.5	32640.0			
	35000	NOBE	29	PBI	0236.9	0240.4	20.0	100.0			
	2695	PALE	8	S	0237.0E	0238.0	2.0D	84.0			QL=4 ST=3 TYP=3
	80000	NOBE	47	GB	0237.7	0238.2	2.5	12080.0			17GHZ:NO OBS
	200	HIRA	8	S	0237.8	0237.9	0.5	1300.0			0
	245	LEAR	49	GB	0238.0E	0238.0	U	440.0			QL=4 ST=2 TYP=7
	610	LEAR	49	GB	0238.0E	0238.0	U	2900.0			QL=4 ST=2 TYP=7
	2695	LEAR	49	GB	0238.0E	0238.0	U	79.0			QL=4 ST=2 TYP=7
	410	LEAR	49	GB	0238.0E	0238.0	U	1200.0			QL=4 ST=2 TYP=7
	1415	LEAR	49	GB	0238.0E	0238.0	U	110.0			QL=4 ST=2 TYP=7
	610	PALE	49	GB	0238.0E	0238.0	U	4500.0			QL=4 ST=3 TYP=6
	245	PALE	49	GB	0238.0E	0238.0	U	960.0			QL=4 ST=3 TYP=6
	410	PALE	8	S	0238.0E	0238.0	U	730.0			QL=4 ST=3 TYP=3
	1415	PALE	8	S	0238.0E	0238.0	U	130.0			QL=4 ST=3 TYP=3
	2840	PEKG	5	S	0415.0	0416.0	4.0	10.4			
	2840	PEKG	5	S	0431.0	0432.3	4.0	18.7			
	2840	PEKG	5	S	0458.0	0459.3	6.0	36.3			
	2950	GORK	1	S	0458.7	0459.8	3.5	27.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	9100	GORK	2	S/F	0458.9	0459.8	2.6	16.0			
	650	GORK	2	S/F	0459.5	0459.7	0.4	18.0			
	950	GORK	2	S/F	0459.5	0459.7	0.4	21.0			
	9300	KISV	25	R	0513.8	0552.3		57.0			
	2950	GORK	23	GRF	0519.4	1109.7	460.6	38.0			
	9100	GORK	23	GRF	0520.5	0801.3	459.5D	54.0			
	5900	KISV	23	GRF	0523.8	0532.7	32.0	23.0			
	2840	PEKG	21	GRF	0524.0	0533.0	14.0	10.4			
	9100	GORK	46	C	0525.2	0528.0		12.0			
	9100	GORK	46	C	0525.2	0526.0	10.6	22.0			
	9100	GORK	46	C	0525.2	0529.7		66.0			
	9100	GORK	46	C	0525.2	0532.8		16.0			
	17000	NOBE	2	S/F	0525.5	0529.8	8.0	50.0			80, 35GHZ:0
	9300	KISV	2	S/F	0525.5	0525.9	0.8	17.0			
	5900	KISV	8	S	0525.6	0525.9	0.7	16.0			
	5900	KISV	2	S/F	0527.3	0528.0	1.7	13.0			
	9300	KISV	2	S/F	0527.4	0528.0	1.6	13.0			
	8800	LEAR	8	S	0529.0E	0529.0	1.0D	68.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0529.0E	0529.0	1.0D	28.0			QL=4 ST=2 TYP=3
	9300	KISV	4	S/F	0529.5	0529.8	5.0	53.0			
	5900	KISV	4	S/F	0529.6	0529.9	1.8	46.0			
	2950	GORK	2	S/F	0532.6	0532.9	1.6	6.0			
	2840	PEKG	21	GRF	0539.0	0622.3	115.0	12.2			
	5900	KISV	23	GRF	0610.0	0725.1	118.2	31.0			
	9300	KISV	46	C	0622.7	0623.2	22.8	84.0			
	9300	KISV	46	C	0622.7	0624.6		58.0			
	9100	GORK	46	C	0623.7	0626.2		26.0			
	9100	GORK	46	C	0623.7	0628.3		88.0			
	9100	GORK	46	C	0623.7	0624.6	12.0	52.0			
	35000	NOBE	2	S/F	0623.9	0628.2		50.0			80GHZ:0
	17000	NOBE	2	S/F	0623.9	0628.2		51.0			
	17000	NOBE	2	S/F	0623.9	0624.3	8.0	46.0			
	35000	NOBE	2	S/F	0623.9	0624.3	7.0	50.0			80GHZ:0
	8800	SVTO	8	S	0624.0E	0624.0	U	48.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0624.0E	0624.0	U	54.0			QL=2 ST=2 TYP=3
	5900	KISV	4	S/F	0624.1	0628.2	6.5	19.0			
	8800	LEAR	4	S/F	0625.0E	0628.0	8.0D	75.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0626.0E	0628.0	4.0D	90.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0627.0E	0628.0	2.0D	81.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0627.0E	0628.0	2.0D	91.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0628.0E	0628.0	U	26.0			QL=4 ST=2 TYP=3
	9300	KISV	2	S/F	0651.8	0652.1	10.7	18.0			
	5900	KISV	2	S/F	0658.1	0659.1	3.8	7.0			
	950	GORK	1	S	0658.2	0658.9	2.6	2.0			
	9300	KISV	23	GRF	0709.0	0746.9	59.4	29.0			
	9100	GORK	22	GRF	0715.0	0723.0	30.0	30.0			
	9500	POTS	21	GRF	0719.4	1110.0	436.0	33.0			
	9300	KISV	2	S/F	0722.6	0722.9	4.4	11.0			
	1470	POTS	20	GRF	0740.2	1105.5	418.0	13.0			
	9300	KISV	1	S	0743.6	0743.7	0.4	14.0			
	5900	KISV	4	S/F	0743.7	0743.8	0.6	14.0			
	9100	GORK	1	S	0746.1	0747.0	3.3	16.0			
	950	GORK	4	S/F	0759.0	0759.2	0.3	135.0			
	2950	GORK	1	S	0759.1	0759.3	1.7	5.0			
	650	GORK	8	S	0759.2	0759.3	0.2	9.0			
	35000	BERN	3	S	0820.1	0834.8	30.0	10.1			
	19600	BERN	3	S	0820.7	0834.7	33.2	8.6			
	11800	BERN	4	S/F	0821.6	0834.5	35.3U	11.4			
	5200	BERN	4	S/F	0823.0	0834.5	34.0U	6.5			
	8400	BERN	4	S/F	0823.4	0834.4	33.4U	13.6			
	5900	KISV	23	GRF	0823.8	0851.2	31.7	16.0			
	9300	KISV	2	S/F	0825.9	0827.1	5.4	13.0			
	3100	BERN	3	S	0828.9	0834.4	11.7	0.8			
	9300	KISV	4	S/F	0831.0	0833.5	16.7	79.0			
	5900	KISV	4	S/F	0832.1	0834.7	8.9	31.0			
	9100	GORK	4	S/F	0832.4	0834.6	6.6	160.0			
	2950	GORK	1	S	0832.6	0834.8	4.6	6.0			
	4995	LEAR	4	S/F	0833.0E	0834.0	3.0D	89.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0833.0E	0834.0	4.0D	180.0			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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	15400	LEAR	4	S/F	0833.0E	0834.0	3.0D	94.0			QL=4 ST=2 TYP=3
	9300	KISV	2	S/F	0849.9	0851.1	2.1	13.0			
	9300	KISV	22	GRF	0903.4	0915.1	27.8	15.0			
	9300	KISV	22	GRF	0903.4	0929.2		14.0			
	3000	POTS	20	GRF	0908.0	1107.0	342.0	34.0			
	5900	KISV	22	GRF	0912.2	0915.1	25.4	10.0			
	5200	BERN	46	C	0935.6	0945.4	30.1	2.5			
	19600	BERN	46	C	0939.5	0945.4	27.4U	6.9			
	11800	BERN	46	C	0941.2	0945.4	24.7	10.2			
	8400	BERN	4	S/F	0941.4	0945.4	24.0	6.4			
	9300	KISV	4	S/F	0943.3	0945.5	4.5	85.0			
	3100	BERN	3	S	0943.7	0945.1	5.8	1.7			
	15400	SVTO	8	S	0944.0E	0945.0	1.0D	89.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0944.0E	0945.0	2.0D	100.0			QL=2 ST=2 TYP=3
	9500	POTS	29	PBI	0944.0	0945.4	16.8	70.0			
	9100	GORK	2	S/F	0944.1	0945.4	3.9	97.0			
	2950	GORK	2	S/F	0944.2	0945.2	3.4	14.0			
	2850	CRIM	7	C	0945.0	0945.1	1.5	17.0	6.0		
	2850	CRIM	7	C	0945.0	0945.6		16.0			
	260	ONDR	8	S	0946.0	0946.5	1.0	39.0			
	600	HUMN	27	RF	1000.0	1021.0	127.0	7.0	3.0		
	9300	KISV	23	GRF	1050.3	1125.6	43.0	56.0			
	9100	GORK	22	GRF	1100.0	1107.1	60.0	35.0			
	5900	KISV	4	S/F	1103.2	1107.3	8.7	27.0			
	5900	KISV	29	PBI	1103.2	1109.9	27.8	22.0			
	9300	KISV	2	S/F	1106.4	1107.2	10.1	18.0			
	9300	KISV	2	S/F	1143.9	1145.5	5.5	12.0			
	5900	KISV	2	S/F	1145.0	1145.8	4.2	9.0			
	9300	KISV	2	S/F	1158.0	1158.3	1.0	6.0			
	5900	KISV	2	S/F	1207.7	1208.5	2.9	6.0			
	9300	KISV	2	S/F	1208.1	1208.5	0.7	6.0			
	9300	KISV	4	S/F	1238.0	1242.8	8.1	98.0			
	5200	BERN	3	S	1238.2	1242.8	10.0	4.5			
	19600	BERN	46	C	1238.8	1242.8	9.8	16.2			
	8400	BERN	3	S	1239.2	1242.8	9.3	8.2			
	11800	BERN	3	S	1239.6	1242.8	7.9	10.0			
	35000	BERN	3	S	1240.1	1242.8	4.6	11.8			
	5900	KISV	4	S/F	1241.9	1242.8	2.3	52.0			
	4995	SGMR	8	S	1242.0E	1242.0	1.0D	45.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1242.0E	1242.0	1.0D	120.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	1242.0E	1242.0	1.0D	90.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1242.0E	1242.0	1.0D	90.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1242.0E	1242.0	1.0D	130.0			QL=2 ST=2 TYP=3
	9100	GORK	3	S	1242.4	1242.9	1.1	88.0			
	9500	POTS	4	S/F	1242.5	1242.8	1.0	49.0			
	15000	CUBA	1	S	1439.5	1440.5	2.3	18.0	9.0		25R
	6700	CUBA	1	S	1439.8	1440.8	3.1	9.0	4.0		20R
	9500	CUBA	1	S	1440.2	1440.6	2.6	21.0	10.0		
	9500	CUBA	21	GRF	1516.0	1719.0	261.0	82.0	41.0		
	6700	CUBA	21	GRF	1523.0	1723.0	315.0	31.0	15.0		10R
	9500	CUBA	40	F	1536.0	1537.0	2.0	11.0	5.0		
	6700	CUBA	40	F	1536.0	1536.0	2.0	10.0	5.0		9L
	15000	CUBA	32	ABS	1536.0	1536.6	1.3	-14.0	-7.0		00L
	6700	CUBA	40	F	1543.0	1544.0	3.0	8.0	4.0		11L
	9500	CUBA	40	F	1543.0	1544.0	3.0	14.0	7.0		
	15000	CUBA	32	ABS	1543.6	1544.2	1.4	-23.0	-11.0		00L
	6700	CUBA	1	S	1619.9	1620.3	2.1	4.0	2.0		48R
	9500	CUBA	1	S	1622.2	1624.0	3.6	7.0	3.0		
	15000	CUBA	47	GB	1652.0	1655.5	6.0	895.0			9L
	15400	SGMR	49	GB	1653.0E	1654.0	9.0D	1500.0			QL=2 ST=2 TYP=6
	9500	CUBA	46	C	1653.9	1654.7	4.1	436.0	98.0		
	8800	SGMR	4	S/F	1654.0E	1654.0	9.0D	420.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1654.0E	1654.0	1.0D	86.0			QL=4 ST=2 TYP=3
	6700	CUBA	46	C	1654.2	1654.9	2.8	155.0	55.0		19R
	15000	CUBA	30	PBI	1658.0		38.0	32.0	16.0		00L
	2695	PALE	8	S	1700.0	1700.0U	U	57.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	1700.0	1701.0U	1.0D	37.0			QL=2 ST=2 TYP=3
	4995	PALE	4	S/F	1700.0	1700.0U	4.0D	78.0			QL=2 ST=2 TYP=3
	9500	CUBA	2	S/F	1701.2	1701.8	1.5	12.0	6.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	2695	PALE	8	S	1706.0E	1706.0	U	28.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1706.0E	1706.0	U	56.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1707.0E	1713.0	7.0D	28.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1707.0E	1713.0	7.0D	83.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1707.0E	1712.0	7.0D	100.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1709.0E	1711.0	8.0D	68.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	1709.5	1713.0	12.5	36.0	15.0		19R
	9500	CUBA	4	S/F	1709.7	1712.9	7.3	86.0	31.0		
	8800	PALE	4	S/F	1710.0E	1711.0	7.0D	76.0			QL=4 ST=2 TYP=3
	15000	CUBA	3	S	1710.2	1713.2	11.8	72.0	36.0		20L
	2695	PALE	8	S	1711.0E	1712.0	1.0D	28.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1720.0E	1721.0	5.0D	54.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1720.0E	1721.0	2.0D	34.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1731.0E	1734.0	6.0D	72.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	1732.0E	1733.0	1.0D	38.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1733.0E	1736.0	4.0D	42.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1733.0E	1736.0	21.0D	45.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1736.0E	1737.0	1.0D	23.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1743.0E	1743.0	U	24.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1758.0E	1800.0	4.0D	86.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1812.3	1812.9	2.2	5.0	2.0		23R
	6700	CUBA	45	C	1855.4	1857.0	10.6	85.0	18.0		31R
	9500	CUBA	1	S	1856.9	1857.5	3.3	62.0	31.0		
	4995	SGMR	8	S	1857.0E	1857.0	2.0D	76.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1857.0E	1857.0	U	82.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	1907.5	1908.0	2.3	40.0	20.0		40L
	15400	SGMR	4	S/F	1908.0E	1908.0	3.0D	50.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	1908.2	1908.9	5.0	40.0	20.0		
	6700	CUBA	2	S/F	1908.5	1909.0	5.5	10.0	5.0		40R
	6700	CUBA	2	S/F	2118.5	2118.9	1.5	20.0	10.0		4R
	200	HIRA	27	RF	2208.0	2231.1	60.0	30.0	20.0		0
	4995	LEAR	4	S/F	2230.0E	2236.0	8.0D	200.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	2230.0E	2236.0	8.0D	340.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	2230.0E	2236.0	8.0D	490.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	2232.0E	2236.0	6.0D	170.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	2232.0E	2236.0	6.0D	210.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	2232.0E	2236.0	6.0D	480.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	2233.0E	2237.0	5.0D	140.0			QL=2 ST=2 TYP=3
	245	LEAR	4	S/F	2234.0E	2236.0	4.0D	420.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	2234.2	2235.9	9.5	262.5	80.0		
	200	HIRA	46	C	2235.4	2235.6	1.5	1400.0	300.0		0
	17000	NOBE	3	S	2235.7	2236.3	1.0	117.0			80, 35GHZ:BAD W
	100	HIRA	8	S	2236.0	2236.0	0.8	1000.0D			
	4995	PALE	4	S/F	2237.0	2238.0U	4.0D	76.0			QL=2 ST=2 TYP=3
	8800	PALE	4	S/F	2237.0	2239.0U	19.0D	110.0			QL=2 ST=2 TYP=3
	15400	PALE	4	S/F	2237.0	2238.0U	31.0D	220.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	2240.0	2240.0U	1.0D	520.0			QL=2 ST=2 TYP=6
	8800	LEAR	4	S/F	2314.0E	2317.0	5.0D	75.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	2315.0E	2317.0	4.0D	76.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2317.0E	2317.0	U	59.0			QL=2 ST=2 TYP=3
	15400	PALE	8	S	2317.0E	2317.0	U	95.0			QL=2 ST=2 TYP=3
	17000	NOBE	1	S	2317.2	2317.4	0.7	29.0			80, 35GHZ:0
25	200	HIRA	43	NS	0013.0	0215.0	167.0	70.0	20.0		ML
	245	PALE	44	NS	0042.0E	0043.0	48.0D	100.0			QL=4 ST=2 TYP=1
	245	PALE	44	NS	0206.0E	0233.0	98.0D	140.0			QL=4 ST=2 TYP=1
	200	GORK	43	NS	1030.0		150.0D		20.0		
	260	ONDR	43	NS	1030.0	1153.5	180.0	177.0			
	245	SVTO	44	NS	1042.0E	1120.0U	292.0D	400.0			QL=4 ST=2 TYP=1
	410	SVTO	44	NS	1043.0E	1344.0U	291.0D	190.0			QL=4 ST=2 TYP=1
	610	SVTO	44	NS	1058.0E	1100.0	4.0D	75.0			QL=4 ST=3 TYP=1
	127	TORN	43	NS	1103.0		237.0		460.0		V=1
	100	GORK	43	NS	1109.0		111.0D		60.0		
	410	SGMR	44	NS	1200.0E	1215.0	110.0D	160.0			QL=2 ST=2 TYP=1
	245	SGMR	44	NS	1200.0E	1212.0	171.0D	220.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1341.0E		464.0D		71.0		
	280	CUBA	44	NS	1341.0E		464.0D		106.0		
	245	SGMR	44	NS	1616.0E	1933.0	284.0D	420.0			QL=2 ST=2 TYP=1
	245	PALE	44	NS	1649.0E	1927.0	416.0D	330.0			QL=4 ST=2 TYP=1

SOLAR RADIO EMISSION
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OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
25	410	PALE	44	NS	1810.0E	1928.0	335.0D	290.0			QL=4 ST=2 TYP=1
	410	SGMR	44	NS	1842.0E	1927.0	138.0D	450.0			QL=2 ST=2 TYP=1
	200	HIRA	44	NS	2100.0E	2228.0	630.0D	500.0	50.0		ML
	245	LEAR	4	S/F	0020.0E	0022.0	3.0D	90.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0022.0E	0022.0	1.0D	120.0			QL=2 ST=2 TYP=3
	245	PALE	.8	S	0030.0E	0030.0	U	100.0			QL=2 ST=2 TYP=3
	2840	PEKG	45	C	0115.0	0115.4	3.5	22.8			
	1415	LEAR	8	S	0118.0E	0118.0	1.0D	240.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	0119.0E	0119.0	U	37.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0133.0E	0134.0	1.0D	52.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0220.0E	0222.0	2.0D	100.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0250.0	0250.8	3.0	15.2			
	17000	NOBE	1	S	0314.5	0314.9	2.0	20.0			80, 35GHZ:0
	17000	NOBE	1	S	0334.5	0334.8	0.5	40.0			80, 35GHZ:0
	2840	PEKG	20	GRF	0432.0	0446.8	176.0	20.2			
	8800	LEAR	4	S/F	0444.0E	0446.0	4.0D	50.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0444.0E	0446.0	4.0D	49.0			QL=4 ST=2 TYP=3
	9300	KISV	4	S/F	0511.8	0517.2	12.9	31.0			
	5900	KISV	23	GRF	0512.8	0522.5	14.8	8.0			
	5900	KISV	2	S/F	0513.5	0517.0	6.7	13.0			
	9100	GORK	2	S/F	0516.0	0517.2	2.0	13.0			
	17000	NOBE	1	S	0529.7						80, 35GHZ:0
	9300	KISV	23	GRF	0536.2	0544.2	14.6	14.0			
	9100	GORK	2	S/F	0536.3	0537.0	2.2	21.0			
	9300	KISV	4	S/F	0536.4	0537.1	3.3	30.0			
	2850	CRIM	1	S	0536.8	0537.3	1.5	6.7	2.0		
	9300	KISV	22	GRF	0552.8	0601.3	13.2	11.0			
	2950	GORK	23	GRF	0600.0	1109.1	399.0	27.0			
	9300	KISV	22	GRF	0625.1	0632.4	20.4	12.0			
	5900	KISV	2	S/F	0645.4	0646.7	1.9	12.0			
	9300	KISV	2	S/F	0645.6	0646.3	1.4	16.0			
	11800	BERN	4	S/F	0656.0	0703.7	28.8U	4.1			
	8400	BERN	4	S/F	0656.0	0703.7	28.7U	5.7			
	5900	KISV	30	PBI	0701.4	0706.0	13.3	17.0			
	5900	KISV	4	S/F	0701.4	0703.9	4.6	51.0			
	9300	KISV	30	PBI	0702.0	0705.2	21.0	28.0			
	9300	KISV	4	S/F	0702.0	0703.8	3.2	52.0			
	5200	BERN	4	S/F	0702.6	0703.7	6.9	1.7			
	8800	LEAR	4	S/F	0703.0E	0703.0	7.0D	76.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0703.0E	0703.0	1.0D	31.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0703.0E	0703.0	1.0D	66.0			QL=2 ST=2 TYP=3
	9100	GORK	2	S/F	0703.2	0703.8	3.2	55.0			
	5900	KISV	2	S/F	0715.0	0718.5	3.8	5.0			
	5900	KISV	2	S/F	0719.4	0721.3	6.8	10.0			
	9300	KISV	2	S/F	0721.0	0721.4	4.6	5.0			
	9500	POTS	21	GRF	0739.0	1110.0	381.0	27.0			
	11800	BERN	3	S	0742.4	0743.3	3.2	2.4			
	8400	BERN	3	S	0742.5	0743.4	3.1	3.2			
	3100	BERN	3	S	0742.9	0743.4	5.5	4.1			
	19600	BERN	3	S	0742.9	0743.4	1.8	2.3			
	1415	LEAR	8	S	0743.0E	0743.0	U	23.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0743.0E	0743.0	1.0D	61.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0743.0E	0743.0	U	47.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0743.0E	0743.0	U	30.0			QL=4 ST=2 TYP=3
	5200	BERN	3	S	0743.1	0743.3	2.7	3.8			
	650	GORK	4	S/F	0743.2	0743.3	0.6	80.0			
	1470	POTS	4	S/F	0743.2	0743.3	4.5	23.0			
	950	GORK	4	S/F	0743.2	0743.4	0.9	180.0			
	9300	KISV	4	S/F	0743.2	0743.4	1.4	35.0			
	5900	KISV	4	S/F	0743.2	0743.5	1.5	55.0			
	9500	POTS	8	S	0743.2	0743.5	0.8	25.0			
	2950	GORK	3	S	0743.2	0743.6	2.8	56.0			
	9100	GORK	1	S	0743.3	0743.5	0.7	34.0			
	3000	POTS	4	S/F	0743.3	0743.6	2.3	52.0			
	9300	KISV	23	GRF	0746.0	0801.0	31.2	24.0			
	2850	CRIM	3	S	0753.1	0753.5	5.0	62.0	20.0		
	9100	GORK	23	GRF	0809.0U	1100.8	297.0D	44.0			
	245	LEAR	8	S	0853.0E	0854.0	1.0D	270.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0853.0E	0854.0	1.0D	300.0			QL=4 ST=3 TYP=3

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
25	3000	POTS	21	GRF	0858.5	0924.0	202.0	15.0			
	9100	GORK	22	GRF	0859.2	0908.0	29.0	50.0			
	9500	POTS	29	PBI	0903.5	0908.2	23.5	25.0			
	2950	GORK	1	S	0906.4	0906.6	1.0	6.0			
	8400	BERN	3	S	1002.6	1006.6	13.9	2.0			
	19600	BERN	46	C	1004.1	1006.6	12.9	1.6			
	35000	BERN	3	S	1005.0	1006.1	2.6	2.8			
	11800	BERN	46	C	1006.2	1006.6	8.3	2.0			
	11800	BERN	3	S	1021.3	1022.9	3.7	4.0			
	35000	BERN	3	S	1021.7	1022.9	4.1	6.7			
	19600	BERN	3	S	1021.9	1022.9	2.8	4.3			
	3100	BERN	3	S	1022.3	1023.0	4.3	2.3			
	5200	BERN	3	S	1022.6	1023.0	2.1	2.4			
	3000	POTS	4	S/F	1022.6	1023.0	1.9	28.0			
	8400	BERN	3	S	1022.6	1022.9	2.1	3.1			
	650	GORK	4	S/F	1022.7	1022.8	1.0	27.0			
	2950	GORK	3	S	1022.8	1023.0	1.0	27.0			
	9100	GORK	3	S	1022.8	1023.0	0.7	40.0			
	9300	KISV	8	S	1022.8	1023.0	0.7	40.0			
	5900	KISV	3	S	1022.8	1023.0	1.7	35.0			
	950	GORK	4	S/F	1022.8	1022.8	0.9	21.0			
	2850	CRIM	3	S	1022.9	1023.0	1.0	34.2	12.0		
	600	HUMN	27	RF	1029.0	1100.0	80.0	24.0	6.0		
	3100	BERN	46	C	1033.3	1045.8	35.2U	3.9			
	410	SVTO	8	S	1035.0E	1035.0	1.0D	140.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1035.0E	1035.0	2.0D	170.0			QL=4 ST=3 TYP=3
	5200	BERN	46	C	1035.9	1100.3	32.6U	3.0			
	2850	CRIM	29	PBI	1038.0	1104.0	30.0	21.5	7.0		
	2850	CRIM	46	C	1038.0	1100.5		45.0			
	2850	CRIM	46	C	1038.0	1045.6	26.0	95.0	30.0		
	11800	BERN	46	C	1038.5	1100.1	28.2	1.7			
	2950	GORK	46	C	1039.0	1100.6		17.0			
	2950	GORK	46	C	1039.0	1045.9	24.0	47.0			
	8400	BERN	46	C	1039.7	1100.4	29.0U	2.7			
	1470	POTS	23	GRF	1040.0	1100.6	35.0	22.0			
	2695	SVTO	4	S/F	1041.0E	1045.0	8.0D	50.0			QL=4 ST=2 TYP=3
	3000	POTS	29	PBI	1045.0	1100.5	50.0	29.0			
	950	GORK	46	C	1053.9	1108.2		9.0			
	650	GORK	46	C	1053.9	1100.2	19.4	37.0			
	950	GORK	46	C	1053.9	1100.5		16.0			
	650	GORK	46	C	1053.9	1101.7		17.0			
	950	GORK	46	C	1053.9	1056.8	19.4	7.0			
	5900	KISV	2	S/F	1058.5	1100.5	5.2	21.0			
	200	GORK	25	R	1103.0	1130.0	117.0D	1200.0			
	650	GORK	30	PBI	1113.3	1113.3	109.7	4.0			
	650	GORK	40	F	1118.3	1300.0	104.7	38.0			
	100	GORK	25	R	1145.0	1220.0	60.0	1100.0			
	600	HUMN	27	RF	1152.0	1208.0	102.0	5.0	1.0		
	9500	CUBA	23	GRF	1346.0	1354.0	9.0	12.0	6.0		
	9500	CUBA	21	GRF	1412.0	1544.0	118.0	11.0	5.0		
	6700	CUBA	2	S/F	1413.0	1413.9	2.8	6.0	3.0		20R
	6700	CUBA	46	C	1523.0	1526.9	14.0	157.0	25.0		25L
	15000	CUBA	4	S/F	1526.0	1526.9	7.5	131.0	36.0		52L
	9500	CUBA	46	C	1526.7	1527.8	11.3	180.0	24.0		
	15400	SVTO	8	S	1527.0E	1527.0	1.0D	94.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1527.0E	1527.0	2.0D	210.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	1527.0E	1527.0	2.0D	220.0			QL=2 ST=2 TYP=3
	2800	PENT	4	S/F	1527.5	1527.8	4.2	73.0	22.0		
	4995	SVTO	8	S	1531.0E	1531.0	U	47.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1531.0E	1531.0	U	58.0			QL=2 ST=2 TYP=3
	9500	CUBA	2	S/F	1556.0	1557.7	3.0	39.0	19.0		
	6700	CUBA	2	S/F	1556.0	1557.8	3.9	18.0	9.0		16R
	15000	CUBA	45	C	1556.1	1557.9	3.3	29.0	14.0		41L
	6700	CUBA	2	S/F	1621.0	1621.5	1.7	6.0	3.0		16R
	2800	PENT	20	GRF	1652.0	1725.0	75.0	29.6	14.0		
	6700	CUBA	21	GRF	1700.0	1725.0	42.0	40.0	20.0		9L
	15000	CUBA	20	GRF	1708.0	1719.0	81.0	26.0	13.0		33L
	9500	CUBA	23	GRF	1710.0	1730.0	61.0	33.0	16.0		
	6700	CUBA	1	S	1716.8	1719.0	3.7	9.0	4.0		54R

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
25	6700	CUBA	2	S/F	1730.3	1730.7	1.4	13.0	6.0		22R
	6700	CUBA	1	S	1733.7	1734.0	1.9	9.0	4.0		31L
	15000	CUBA	1	S	1857.3	1858.6	2.1	21.0	10.0		68L
	15000	CUBA	2	S/F	2122.0	2122.4	3.3	16.0	8.0		00L
26	245	PALE	44	NS	0039.0E	0157.0	1401.0D	530.0			QL=4 ST=3 TYP=1
	410	PALE	44	NS	0055.0E	0109.0	168.0D	210.0			QL=4 ST=2 TYP=1
	410	LEAR	44	NS	0129.0E	0219.0	71.0D	100.0			QL=4 ST=2 TYP=1
	245	LEAR	44	NS	0129.0E	0220.0	189.0D	410.0			QL=4 ST=2 TYP=1
	200	GORK	44	NS	0500.0E		390.0D		15.0		
	127	TORN	44	NS	0620.0E		480.0D		10.0		V=1
	235	CUBA	44	NS	1338.0E		474.0D		21.0		
	280	CUBA	44	NS	1338.0E		474.0D		22.0		
	245	SGMR	44	NS	1620.0E	1906.0	460.0D	250.0			QL=2 ST=3 TYP=1
	245	PALE	44	NS	1714.0E	2221.0	406.0D	1600.0			QL=4 ST=3 TYP=1
	245	PALE	44	NS	1716.0E	2221.0	404.0D	1600.0			QL=4 ST=3 TYP=1
	410	PALE	44	NS	1905.0E	1943.0	295.0D	140.0			QL=4 ST=3 TYP=1
	410	SGMR	44	NS	1931.0E	1939.0	112.0D	99.0			QL=2 ST=2 TYP=1
	200	HIRA	44	NS	2100.0E	0306.0	630.0D	400.0	80.0		SL
	610	PALE	44	NS	2147.0E	2154.0	133.0D	2000.0			QL=4 ST=3 TYP=1
	2695	LEAR	4	S/F	0024.0E	0038.0	45.0D	120.0			QL=4 ST=2 TYP=5
	4995	LEAR	4	S/F	0024.0E	0038.0	42.0D	150.0			QL=4 ST=2 TYP=5
	1415	PALE	8	S	0026.0E	0028.0	2.0D	190.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0029.0E	0037.0	10.0D	390.0			QL=4 ST=2 TYP=3
	15400	LEAR	20	GRF	0029.0E	0038.0	40.0D	60.0			QL=4 ST=2 TYP=2
	1415	LEAR	4	S/F	0029.0E	0032.0	40.0D	82.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0030.0E	0038.0	15.0D	150.0			QL=4 ST=2 TYP=5
	410	PALE	20	GRF	0030.0E	0031.0	13.0D	190.0			QL=4 ST=2 TYP=2
	8800	LEAR	4	S/F	0030.0E	0038.0	20.0D	80.0			QL=4 ST=2 TYP=5
	245	LEAR	4	S/F	0030.0E	0113.0	59.0D	370.0			QL=2 ST=2 TYP=5
	1415	PALE	4	S/F	0031.0E	0032.0	8.0D	78.0			QL=4 ST=2 TYP=3
	2695	PALE	20	GRF	0031.0E	0038.0	10.0D	110.0			QL=4 ST=2 TYP=2
	410	LEAR	4	S/F	0031.0E	0108.0	58.0D	180.0			QL=4 ST=2 TYP=5
	15400	PALE	4	S/F	0032.0E	0038.0	6.0D	56.0			QL=2 ST=2 TYP=5
	610	PALE	8	S	0032.0E	0033.0	1.0D	32.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0032.0E	0038.0	7.0D	93.0			QL=4 ST=2 TYP=5
	610	LEAR	4	S/F	0038.0E	0058.0	43.0D	77.0			QL=4 ST=2 TYP=5
	610	LEAR	8	S	0217.0E	0218.0	1.0D	150.0			QL=4 ST=2 TYP=3
	9100	GORK	23	GRF	0539.0E	0836.0	351.0D	38.0			
	9100	GORK	2	S/F	0541.7	0542.2	1.6	33.0			
	9300	KISV	2	S/F	0541.8	0542.2	3.2	25.0			
	2950	GORK	2	S/F	0542.0	0542.2	1.1	4.0			
	2950	GORK	23	GRF	0555.3	1023.1	334.7D	22.0			
	2950	GORK	1	S	0713.0	0713.2	1.3	5.0			
	9500	POTS	21	GRF	0744.8	1049.0	349.0	20.0			
	9300	KISV	2	S/F	0758.3	0759.0	5.0	15.0			
	9100	GORK	2	S/F	0758.4	0759.0	4.6	14.0			
	8400	BERN	46	C	0821.8	0827.7	18.9U	15.1			
	11800	BERN	47	GB	0821.9	0825.7	18.8U	59.0			
	19600	BERN	47	GB	0822.9	0825.7	11.4	51.0			
	15400	LEAR	4	S/F	0824.0E	0825.0	5.0D	91.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0824.0E	0824.0	1.0D	69.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0825.0E	0825.0	3.0D	91.0			QL=2 ST=2 TYP=3
	9100	GORK	46	C	0825.1	0827.8		22.0			
	9100	GORK	46	C	0825.1	0825.9	5.8	14.0			
	245	LEAR	8	S	0833.0E	0835.0	2.0D	62.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	0834.0E	0835.0	1.0D	73.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0843.0E	0844.0	2.0D	88.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	0844.0E	0844.0	1.0D	79.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0844.0E	0844.0	U	100.0			QL=4 ST=2 TYP=3
	9100	GORK	22	GRF	0919.5	0921.0	9.9	20.0			
	9300	KISV	21	GRF	0921.5	0921.8	8.7	15.0			
	9300	KISV	20	GRF	0936.0	0938.9	8.2	11.0			
	9300	KISV	29	PBI	1000.8	1002.0	9.2	12.0			
	9300	KISV	4	S/F	1000.8	1001.0	1.2	23.0			
	5900	KISV	2	S/F	1000.8	1002.0	3.7	12.0			
	260	ONDR	41	F	1003.0	1006.0	58.0	76.0			
	2950	GORK	1	S	1021.3	1021.8	1.1	3.0			
	11800	BERN	46	C	1043.6	1048.7	8.5	17.1			

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OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
26	8400	BERN	3	S	1048.2	1048.7	4.5	40.7			
	5200	BERN	47	GB	1048.2	1048.7	1.8	482.6			
	5900	KISV	4	S/F	1048.5	1048.8	1.7	35.0			
	9300	KISV	8	S	1048.6	1048.9	0.9	32.0			
	9100	GORK	1	S	1048.7	1048.8	0.3	12.0			
	5900	KISV	23	GRF	1118.5	1129.0	14.4	17.0			
	11800	BERN	47	GB	1121.1	1123.8	14.3	86.7			
	8400	BERN	47	GB	1121.2	1123.7	6.7	194.0			
	5900	KISV	2	S/F	1121.3	1123.8	4.2	14.0			
	9100	GORK	46	C	1121.5	1123.9	8.5	65.0			
	9100	GORK	46	C	1121.5	1125.9		24.0			
	9500	POTS	42	SER	1121.6	1150.5	32.4	71.0			
	5200	BERN	47	GB	1121.7	1123.8	3.2	58.0			
	9300	KISV	30	PBI	1121.9	1124.2	13.9	25.0			
	9300	KISV	4	S/F	1121.9	1123.8	2.3	52.0			
	9300	KISV	2	S/F	1128.4	1129.1	1.6	12.0			
	3100	BERN	47	GB	1147.0	1150.7	18.3	74.1			
	8400	BERN	47	GB	1147.6	1150.3	20.1	1156.0			
	5200	BERN	47	GB	1147.6	1150.7	18.6	454.1			
	11800	BERN	47	GB	1148.0	1150.4	20.4	627.8			
	8800	SVTO	8	S	1149.0E	1150.0	2.0D	110.0			QL=2 ST=2 TYP=3
	19600	BERN	47	GB	1149.0	1150.4	7.7	350.6			
	3000	POTS	29	PBI	1149.0	1150.6	6.5	10.0			
	2850	CRIM	1	S	1149.3	1150.6	3.0	13.0	4.0		
	4995	SVTO	8	S	1150.0E	1150.0	1.0D	53.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1150.0E	1150.0	U	40.0			QL=2 ST=2 TYP=3
	9300	KISV	2	S/F	1217.7	1218.8	3.5	10.0			
	9300	KISV	2	S/F	1228.7	1229.7	2.0	12.0			
	9500	POTS	4	S/F	1253.6	1257.6	23.4	89.0			
	5900	KISV	4	S/F	1255.4	1257.7	9.5	48.0			
	15400	SGMR	4	S/F	1256.0E	1257.0	8.0D	66.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1257.0E	1257.0	7.0D	57.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1257.0E	1257.0	1.0D	66.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	1257.0E	1257.0	4.0D	100.0			QL=2 ST=2 TYP=3
	6700	CUBA	23	GRF	1353.0	1356.0	19.0D	16.0			26R 1412 OFF
	6700	CUBA	23	GRF	1425.0	1429.0	21.0	12.0	6.0		26R
	6700	CUBA	20	GRF	1506.0E	1513.0	82.0D	28.0	14.0		00R
	245	SGMR	8	S	1612.0E	1612.0	1.0D	330.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1617.0E	1617.0	1.0D	380.0			QL=2 ST=2 TYP=3
	15000	CUBA	1	S	1656.0	1656.4	0.8	14.0	7.0		00L
	15000	CUBA	1	S	1728.4	1729.0	2.8	37.0	18.0		12L
	6700	CUBA	21	GRF	1745.0	1851.0	253.0	50.0	25.0		9R
	6700	CUBA	1	S	1807.5	1810.0	6.0	6.0	3.0		21R
	2800	PENT	24	R	1845.0	1848.5	360.0D	31.4	30.0		
	235	CUBA	25	R	1846.0	1955.0	166.0D	317.0			2132 OFF
	280	CUBA	25	R	1846.0	1955.0	166.0D	266.0			2132 OFF
	4995	SGMR	4	S/F	1846.0E	1848.0	314.0D	120.0			QL=4 ST=1 TYP=3
	4995	PALE	4	S/F	1847.0E	1848.0	19.0D	130.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1847.0E	1848.0	17.0D	130.0			QL=4 ST=2 TYP=3
	15000	CUBA	21	GRF	1847.0	2120.0	190.0D	114.0			POL OFF, 2157 O
	8800	PALE	4	S/F	1848.0E	1848.0	4.0D	90.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1848.0E	1848.0	16.0D	38.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1848.0E	1848.0	21.0D	43.0			QL=4 ST=2 TYP=3
	15000	CUBA	2	S/F	1848.1	1848.7	5.7	25.0	12.0		00L
	410	PALE	4	S/F	1850.0E	1851.0	6.0D	260.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1850.0E	1851.0	1.0D	260.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1850.0E	1851.0	1.0D	180.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1850.0E	1851.0	1.0D	270.0			QL=2 ST=2 TYP=3
	6700	CUBA	1	S	1934.1	1936.0	4.9	17.0	8.0		22L
	15000	CUBA	1	S	1953.2	1953.5	4.6	17.0	8.0		00L
	2800	PENT	47	GB	2016.8	2045.7	75.0	1292.0	380.0		
	6700	CUBA	47	GB	2017.5	2036.2	41.5	2495.0			COMPLEX POL.
	15000	CUBA	47	GB	2023.1	2036.5	52.4	1060.0			POL OFF
	2695	PALE	49	GB	2024.0E	2045.0	66.0D	1200.0			QL=4 ST=2 TYP=7
	280	CUBA	48	C	2025.5	2044.0U	65.0D	1881.0D			2132 OFF
	235	CUBA	48	C	2025.5	2044.7	67.0D	3919.0			2132 OFF
	1415	PALE	49	GB	2026.0E	2048.0	64.0D	820.0			QL=4 ST=2 TYP=7
	610	PALE	49	GB	2026.0E	2056.0	66.0D	59000.0			QL=4 ST=2 TYP=7
	4995	PALE	49	GB	2026.0E	2036.0	63.0D	1800.0			QL=4 ST=2 TYP=7

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OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
26	15400	PALE	49	GB	2026.0E	2045.0	74.0D	900.0			QL=2 ST=2 TYP=7
	4995	SGMR	49	GB	2027.0E	2036.0	37.0D	1900.0			QL=4 ST=3 TYP=7
	8800	SGMR	49	GB	2029.0E	2036.0	35.0D	1600.0			QL=4 ST=3 TYP=7
	2695	SGMR	49	GB	2030.0E	2045.0	34.0D	1200.0			QL=4 ST=3 TYP=7
	8800	PALE	49	GB	2030.0E	2036.0	41.0D	1100.0			QL=4 ST=2 TYP=7
	610	SGMR	49	GB	2031.0E	2057.0	52.0D	35000.0			QL=2 ST=3 TYP=7
	245	SGMR	49	GB	2033.0E	2039.0	50.0D	4700.0			QL=2 ST=3 TYP=6
	410	SGMR	49	GB	2034.0E	2117.0	49.0D	18000.0			QL=2 ST=3 TYP=7
	245	PALE	49	GB	2035.0E	2039.0	15.0D	4600.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	2036.0E	2117.0	51.0D	30000.0			QL=4 ST=2 TYP=7
	4995	LEAR	4	S/F	2200.0E	2209.0	10.0D	48.0			QL=2 ST=3 TYP=3
	410	LEAR	4	S/F	2200.0E	2220.0	30.0D	180.0			QL=2 ST=3 TYP=5
	610	LEAR	49	GB	2200.0E	2218.0	52.0D	710.0			QL=2 ST=3 TYP=7
	245	LEAR	49	GB	2200.0E	2233.0	52.0D	2400.0			QL=2 ST=3 TYP=7
	410	LEAR	4	S/F	2207.0E	2220.0	23.0D	180.0			QL=4 ST=2 TYP=5
	245	LEAR	49	GB	2207.0E	2233.0	45.0D	2400.0			QL=4 ST=2 TYP=7
	610	LEAR	49	GB	2207.0E	2218.0	45.0D	710.0			QL=4 ST=2 TYP=7
	2695	LEAR	20	GRF	2208.0E	2221.0	43.0D	49.0			QL=4 ST=2 TYP=2
	4995	LEAR	8	S	2209.0E	2209.0	1.0D	48.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	2219.0E	2219.0	20.0D	65.0			QL=2 ST=3 TYP=3
	245	PALE	49	GB	2220.0E	2221.0	1.0D	2800.0			QL=4 ST=2 TYP=6
	15400	LEAR	4	S/F	2221.0E	2221.0	18.0D	44.0			QL=2 ST=3 TYP=3
	200	HIRA	46	C	2232.0	2233.0	2.5	3000.0	1000.0		
	17000	NOBE	2	S/F	2323.3	2324.7	3.0	49.0			80, 35GHZ:0
27	245	PALE	44	NS	0046.0E	0255.0	177.0D	310.0			QL=4 ST=2 TYP=1
	100	GORK	44	NS	0500.0E		390.0D		55.0		
	200	GORK	44	NS	0500.0E		390.0D		60.0		
	127	TORN	44	NS	0620.0E		490.0D		150.0		V=2
	410	SVTO	44	NS	0637.0E	0643.0	348.0D	1300.0			QL=4 ST=2 TYP=1
	610	SVTO	44	NS	0641.0E	1117.0	341.0D	860.0			QL=4 ST=2 TYP=1
	245	SVTO	44	NS	0642.0E	0847.0	529.0D	2800.0			QL=4 ST=2 TYP=1
	260	ONDR	44	NS	0945.0E	1256.4U		541.0U			
	245	SGMR	44	NS	1200.0E	1920.0	540.0D	1400.0			QL=2 ST=2 TYP=1
	410	SVTO	44	NS	1430.0E	1446.0	61.0D	200.0			QL=4 ST=2 TYP=1
	410	SGMR	44	NS	1433.0E	1632.0	269.0D	350.0			QL=2 ST=2 TYP=1
	610	SGMR	44	NS	1443.0E	1540.0	215.0D	150.0			QL=2 ST=2 TYP=1
	610	PALE	43	NS	1650.0	1706.0	90.0D	230.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	1650.0	1653.0	205.0D	200.0			QL=4 ST=2 TYP=1
	245	PALE	44	NS	1658.0E	1917.0	644.0D	1400.0			QL=4 ST=2 TYP=1
	200	HIRA	44	NS	2100.0E	0414.0	630.0D	100.0	40.0		SL
	245	LEAR	44	NS	2258.0E	0029.0	677.0D	460.0			QL=4 ST=2 TYP=1
	410	LEAR	8	S	0021.0E	0023.0	2.0D	67.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0021.0E	0023.0	2.0D	350.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0021.0E	0023.0	3.0D	410.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0021.0E	0023.0	1419.0D	89.0			QL=4 ST=1 TYP=3
	2840	PEKG	45	C	0021.0	0023.2	8.0	34.6			
	200	HIRA	46	C	0021.3	0023.1	2.0	1500.0	150.0		
	100	HIRA	46	C	0021.3	0021.4	1.3	350.0	270.0		
	4995	LEAR	8	S	0022.0E	0023.0	2.0D	73.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0022.0E	0023.0	1.0D	34.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0022.0E	0023.0	1.0D	110.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0022.0E	0023.0	1.0D	31.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0022.0E	0042.0	22.0D	99.0			QL=4 ST=2 TYP=5
	610	LEAR	8	S	0023.0E	0023.0	U	33.0			QL=4 ST=2 TYP=3
	15400	PALE	20	GRF	0024.0E	0043.0	21.0D	100.0			QL=2 ST=2 TYP=2
	610	LEAR	4	S/F	0027.0E	0030.0	4.0D	120.0			QL=4 ST=3 TYP=5
	410	LEAR	8	S	0029.0E	0030.0	2.0D	100.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	0030.0E	0030.0	1410.0D	180.0			QL=4 ST=1 TYP=3
	245	LEAR	8	S	0033.0E	0034.0	1.0D	240.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0038.0E	0040.0	4.0D	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0039.0E	0040.0	1.0D	120.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0039.0E	0044.0	7.0D	70.0			QL=4 ST=3 TYP=3
	17000	NOBE	1	S	0041.7	0044.1	8.0	56.0			80, 35GHZ:0
	15400	LEAR	4	S/F	0042.0E	0044.0	4.0D	67.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0128.0E	0128.0	1.0D	130.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0128.0E	0128.0	U	64.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0128.0E	0128.0	1.0D	41.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0204.0	0209.6	8.0	233.0			

S O L A R R A D I O E M I S S I O N
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
27	4995	LEAR	4	S/F	0205.0E	0209.0	6.0D	250.0			QL=2 ST=2 TYP=3
	8800	LEAR	49	GB	0205.0E	0208.0	8.0D	750.0			QL=4 ST=2 TYP=6
	17000	NOBE	45	C	0205.0	0209.0	7.0	1555.0			
	8800	PALE	49	GB	0205.0E	0208.0	7.0D	890.0			QL=4 ST=2 TYP=6
	15400	LEAR	49	GB	0205.0E	0209.0	10.0D	1900.0			QL=4 ST=2 TYP=6
	35000	NOBE	45	C	0205.0	0209.0	14.0	810.0			80GHZ:O
	17000	NOBE	29	PBI	0205.0	0212.0	20.0	57.0			
	15400	PALE	49	GB	0206.0E	0208.0	6.0D	2300.0			QL=2 ST=2 TYP=6
	4995	PALE	4	S/F	0207.0E	0209.0	4.0D	290.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0208.0E	0209.0	2.0D	190.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0208.0E	0209.0	2.0D	180.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0209.0E	0209.0	6.0D	250.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0209.0E	0209.0	1.0D	48.0			QL=4 ST=2 TYP=3
	2840	PEKG	29	PBI	0212.0	0233.0	149.0	37.1			
	610	LEAR	4	S/F	0232.0E	0234.0	3.0D	59.0			QL=4 ST=2 TYP=3
	650	GORK	2	S/F	0413.7	0414.4	1.6	7.0			
	610	LEAR	4	S/F	0426.0E	0427.0	3.0D	230.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0443.0E	0444.0	1.0D	180.0			QL=4 ST=2 TYP=3
	2950	GORK	23	GRF	0503.0U	0608.8	387.0D	42.0			
	2840	PEKG	28	PRE	0505.0	0538.5	33.5	13.1			
	5900	KISV	29	PBI	0508.8	0546.4	73.3	723.0			
	5900	KISV	47	GB	0508.8	0540.5	37.6	8435.0			
	1415	LEAR	49	GB	0510.0E	0542.0	65.0D	5700.0			QL=4 ST=2 TYP=7
	9100	GORK	23	GRF	0512.0U	0624.0U	378.0D	64.0			
	9300	KISV	23	GRF	0513.1	0518.6	14.2	26.0			
	17000	NOBE	28	PRE	0515.6	0516.5	23.4	27.0			
	9300	KISV	2	S/F	0520.5	0521.1	1.8	16.0			
	200	GORK	47	GB	0530.0	0540.3		38000.0			
	100	GORK	47	GB	0530.0	0641.4		60000.0			
	200	GORK	47	GB	0530.0	0539.4	66.0	44000.0			
	100	GORK	47	GB	0530.0	0640.4	75.0	50000.0			
	200	GORK	47	GB	0530.0	0557.6		2000.0			
	950	GORK	23	GRF	0533.1		356.9				
	9300	KISV	47	GB	0535.0	0540.5	22.9	8143.0			
	8800	LEAR	49	GB	0536.0E	0540.0	43.0D	13000.0			QL=4 ST=2 TYP=6
	9100	GORK	47	GB	0536.0U	0540.4	48.0D	12850.0			
	4995	LEAR	49	GB	0538.0E	0542.0	41.0D	6600.0			QL=4 ST=2 TYP=6
	100	HIRA	48	C	0538.4	0538.9	6.6	1000.0D			
	2840	PEKG	47	GB	0538.5	0542.2	37.5	4453.9			
	200	HIRA	48	C	0538.7	0538.9	8.0	33000.0	3000.0		WR
	1415	SVTO	49	GB	0539.0E	0544.0	11.0D	1200.0			QL=2 ST=2 TYP=6
	2695	SVTO	49	GB	0539.0E	0542.0	19.0D	3800.0			QL=2 ST=2 TYP=6
	2695	LEAR	49	GB	0539.0E	0542.0	25.0D	3800.0			QL=4 ST=2 TYP=6
	8800	SVTO	49	GB	0539.0E	0540.0	21.0D	8600.0			QL=2 ST=2 TYP=6
	4995	SVTO	49	GB	0539.0E	0541.0	22.0D	6000.0			QL=2 ST=2 TYP=6
	610	LEAR	49	GB	0539.0E	0539.0	38.0D	1800.0			QL=4 ST=2 TYP=6
	17000	NOBE	29	PBI	0539.0	0602.0	30.0	114.0			
	610	SVTO	49	GB	0539.0E	0544.0	30.0D	1100.0			QL=2 ST=2 TYP=7
	15400	LEAR	49	GB	0539.0E	0540.0	40.0D	13000.0			QL=2 ST=2 TYP=6
	410	SVTO	49	GB	0539.0E	0539.0	40.0D	4500.0			QL=2 ST=2 TYP=7
	245	SVTO	49	GB	0539.0E	0540.0	40.0D	4600.0			QL=2 ST=2 TYP=6
	2950	GORK	47	GB	0539.0	0542.2	21.0	3700.0			
	80000	NOBE	47	GB	0539.0	0542.8	15.0	680.0			
	35000	NOBE	47	GB	0539.0	0542.8	23.0	6740.0			
	17000	NOBE	47	GB	0539.0	0542.8	23.0	6640.0			
	950	GORK	47	GB	0539.0	0542.8	37.6	1100.0			
	410	LEAR	49	GB	0543.0E	0544.0	38.0D	2000.0			QL=4 ST=2 TYP=6
	245	LEAR	49	GB	0543.0E	0544.0	37.0D	2500.0			QL=2 ST=3 TYP=6
	650	GORK	47	GB	0543.3E	0547.0	38.4D	963.0			
	650	GORK	47	GB	0543.3E	0549.1		1025.0			
	15400	SVTO	20	GRF	0548.0E	0550.0	44.0D	350.0			QL=2 ST=2 TYP=2
	9300	KISV	29	PBI	0557.9	0557.9	50.1	195.0			
	35000	NOBE	29	PBI	0602.0E	0602.0	20.0D	185.0			
	2950	GORK	1	S	0612.0	0613.7	2.6	11.0			
	2850	CRIM	1	S	0612.8	0613.6	1.2	13.0	4.0		
	2840	PEKG	29	PBI	0616.0	0616.0	89.0	21.0			
	650	GORK	23	GRF	0632.7	0728.4	297.3D	18.0			
	410	LEAR	49	GB	0637.0E	0643.0	51.0D	1300.0			QL=4 ST=2 TYP=6
	610	LEAR	49	GB	0640.0E	0651.0	47.0D	600.0			QL=4 ST=2 TYP=6

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
27	650	GORK	4	S/F	0640.6		28.1	73.0			
	950	GORK	46	C	0640.6	0656.5		56.0			
	950	GORK	46	C	0640.6	0649.6		50.0			
	950	GORK	46	C	0640.6	0643.7	23.4	35.0			
	600	HUMN	47	GB	0641.0	1118.0	444.0	306.0	84.0		
	245	LEAR	49	GB	0643.0E	0656.0	44.0D	690.0			QL=2 ST=2 TYP=7
	200	GORK	46	C	0648.0	0717.3		430.0			
	200	GORK	46	C	0648.0	0656.5	33.0	360.0			
	2850	CRIM	21	GRF	0650.0	0820.0	260.0	29.0	10.0		
	950	GORK	4	S/F	0712.0	0716.5	28.6	145.0			
	650	GORK	4	S/F	0713.3	0719.2	15.1	26.0			
	650	GORK	46	C	0730.2	0732.3	3.6	18.0			
	650	GORK	46	C	0730.2	0733.4		25.0			
	1470	POTS	20	GRF	0730.6	1108.5	264.0	7.0			
	245	SVTO	8	S	0805.0E	0805.0	U	180.0			QL=2 ST=2 TYP=3
	100	GORK	42	SER	0809.0	1001.0		1800.0			
	100	GORK	42	SER	0809.0	1121.6		800.0			
	100	GORK	42	SER	0809.0	0810.9	201.0	3870.0			
	950	GORK	46	C	0816.3	0833.0	67.5	137.0			
	950	GORK	46	C	0816.3	0859.0U		96.0			
	650	GORK	46	C	0816.4	0837.4		45.0			
	650	GORK	46	C	0816.4	0858.5		36.0			
	650	GORK	46	C	0816.4	0833.8	60.0	47.0			
	610	LEAR	20	GRF	0819.0E	0858.0	39.0D	350.0			QL=4 ST=2 TYP=2
	200	GORK	27	RF	0824.0	0847.0	96.0	5300.0			
	245	LEAR	49	GB	0827.0E	0846.0	26.0D	3300.0			QL=2 ST=2 TYP=7
	410	LEAR	4	S/F	0827.0E	0851.0	26.0D	220.0			QL=2 ST=2 TYP=5
	33	UPIC	42	SER	0911.7	1001.0	62.0				
	536	ONDR	49	GB	0928.0	1001.0	154.0	316.0			
	650	GORK	4	S/F	0928.3	0949.9	29.7	89.0			
	950	GORK	46	C	0938.6	0949.0		40.0			
	950	GORK	46	C	0938.6	0952.8		50.0			
	950	GORK	46	C	0938.6	0942.8	16.9	27.0			
	610	LEAR	8	S	1000.0E	1001.0	2.0D	140.0			QL=2 ST=2 TYP=3
	410	LEAR	4	S/F	1000.0E	1001.0	3.0D	80.0			QL=2 ST=2 TYP=3
	3000	POTS	20	GRF	1003.7		13.3	15.0			
	5900	KISV	2	S/F	1013.0	1014.0	2.5	19.0			
	9300	KISV	2	S/F	1013.0	1013.9	2.5	18.0			
	650	GORK	46	C	1033.5	1051.1	26.5	90.0			
	650	GORK	46	C	1033.5	1054.8		90.0			
	808	ONDR	49	GB	1034.0	1048.5	88.0	123.0			
	950	GORK	46	C	1034.5	1059.1	43.5	110.0			
	950	GORK	46	C	1034.5	1106.9		180.0			
	808	ONDR	46	C	1055.0	1055.2	9.5	184.0			
	9500	POTS	4	S/F	1057.5	1058.4	2.4	20.0			
	200	GORK	27	RF	1100.0	1121.5	30.0D	2050.0			
	9500	POTS	42	SER	1133.0	1134.4	38.6	18.0			
	33	UPIC	42	SER	1150.0		90.3				
	35000	BERN	3	S	1251.2	1256.8	14.3	18.8			
	8400	BERN	47	GB	1253.5	1256.7	36.4	75.1			
	19600	BERN	47	GB	1254.5	1256.7	42.4	50.7			
	5200	BERN	47	GB	1254.8	1256.6	33.7	58.0			
	410	SGMR	4	S/F	1255.0E	1256.0	4.0D	350.0			QL=2 ST=2 TYP=3
	8800	SGMR	49	GB	1255.0E	1256.0	4.0D	950.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	1255.0E	1256.0	4.0D	870.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1255.0E	1256.0	3.0D	760.0			QL=2 ST=2 TYP=6
	15400	SGMR	49	GB	1255.0E	1256.0	4.0D	690.0			QL=4 ST=2 TYP=6
	610	SGMR	4	S/F	1255.0E	1256.0	4.0D	360.0			QL=2 ST=2 TYP=3
	245	SVTO	49	GB	1255.0E	1256.0	3.0D	870.0			QL=2 ST=2 TYP=6
	610	SVTO	49	GB	1255.0E	1256.0	3.0D	710.0			QL=2 ST=2 TYP=6
	410	SVTO	49	GB	1255.0E	1256.0	2.0D	540.0			QL=2 ST=2 TYP=6
	11800	BERN	47	GB	1255.1	1256.7	44.8	78.1			
	536	ONDR	46	C	1255.2	1257.4	4.0	336.0			
	1470	POTS	4	S/F	1255.4	1256.6	11.6	130.0			
	3100	BERN	3	S	1255.4	1256.9	26.2	32.6			
	3000	POTS	45	C	1255.5	1257.0	19.5	1100.0			
	127	TORN	47	GB	1255.5	1257.0U	3.0	8900.0D	5700.0D		
	2850	CRIM	3	S	1255.7	1256.8	8.0	515.0	171.0		
	9500	POTS	45	C	1255.8	1256.8	24.2	730.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
27	15400	SVTO	49	GB	1256.0E	1256.0	5.0D	690.0			QL=2 ST=2 TYP=6
	2695	SVTO	4	S/F	1256.0E	1256.0	4.0D	470.0			QL=2 ST=2 TYP=3
	1415	SVTO	8	S	1256.0E	1256.0	2.0D	110.0			QL=2 ST=2 TYP=3
	4995	SVTO	49	GB	1256.0E	1256.0	5.0D	920.0			QL=2 ST=2 TYP=6
	8800	SVTO	49	GB	1256.0E	1256.0	8.0D	1100.0			QL=2 ST=2 TYP=6
	1415	SGMR	4	S/F	1256.0E	1256.0	664.0D	110.0			QL=4 ST=1 TYP=3
	2695	SGMR	4	S/F	1256.0E	1256.0	664.0D	400.0			QL=4 ST=1 TYP=3
	536	ONDR	27	RF	1317.3	1321.0	23.0	71.0			
	610	SVTO	4	S/F	1319.0E	1321.0	9.0D	170.0			QL=2 ST=2 TYP=3
	610	SGMR	8	S	1320.0E	1321.0	1.0D	71.0			QL=2 ST=2 TYP=3
	6700	CUBA	21	GRF	1413.0	1515.0	104.0	28.0	14.0		6R
	9500	POTS	42	SER	1413.0	1448.2	40.6	42.0			
	6700	CUBA	2	S/F	1414.5	1415.4	2.0	10.0	5.0		38R
	600	HUMN	47	GB	1418.0	1429.0	98.0	105.0	20.0		
	610	SVTO	8	S	1429.0E	1429.0	U	430.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1446.2	1448.3	5.7	25.0	12.0		12R
	6700	CUBA	4	S/F	1539.5	1541.0	7.5	16.0	8.0		21R
	245	SGMR	49	GB	1553.0E	1553.0	U	1600.0			QL=2 ST=2 TYP=6
	6700	CUBA	40	F	1617.0	1619.0	7.0	15.0	7.0		11R
	6700	CUBA	21	GRF	1708.0	1809.0	242.0	26.0	13.0		6R
	6700	CUBA	2	S/F	1708.3	1709.3	2.7	13.0	6.0		39R
	6700	CUBA	46	C	1923.1	1923.9	13.1	22.0	11.0		13L
	6700	CUBA	1	S	1929.9	1930.8	1.3	8.0	4.0		15L
	610	PALE	49	GB	1953.0E	1954.0	3.0D	830.0			QL=4 ST=2 TYP=6
	410	PALE	4	S/F	1953.0E	1954.0	3.0D	300.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1953.0E	1954.0	1.0D	2300.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	1953.0E	1954.0	2.0D	670.0			QL=2 ST=2 TYP=6
	245	SGMR	49	GB	1953.0E	1954.0	2.0D	1700.0			QL=2 ST=2 TYP=6
	410	SGMR	8	S	1953.0E	1954.0	2.0D	240.0			QL=2 ST=2 TYP=3
	6700	CUBA	2	S/F	2055.8	2057.0	3.7	33.0	16.0		15L
	245	LEAR	8	S	2227.0E	2228.0	1.0D	150.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	2323.0E	2324.0	1.0D	32.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2323.0E	2324.0	1.0D	80.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2323.0E	2324.0	1.0D	30.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	2323.6	2324.1	2.0	53.0			80, 35GHZ:0
28	127	TORN	44	NS	0620.0E		490.0D		9.0		V=1
	260	ONDR	44	NS	0945.0E	1132.5	135.0D	549.0			
	280	CUBA	44	NS	1325.0E		486.0D		32.0		
	235	CUBA	44	NS	1335.0E		425.0D		18.0		
	200	HIRA	44	NS	2100.0E	2130.0	500.0D	60.0	20.0		SL
	245	PALE	44	NS	2130.0E	0012.0	314.0D	250.0			QL=4 ST=2 TYP=1
	245	LEAR	44	NS	2226.0E	0042.0	404.0D	200.0			QL=4 ST=2 TYP=1
	2840	PEKG	3	S	0027.0	0032.1	10.0	21.5			
	410	PALE	8	S	0122.0E	0123.0	1.0D	120.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0130.0E	0131.0	2.0D	41.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0130.0E	0131.0	2.0D	54.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0130.0E	0131.0	3.0D	52.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0130.0E	0130.0	2.0D	39.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0213.0E	0214.0	1.0D	750.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	0213.0E	0214.0	1.0D	1200.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0216.0E	0216.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0216.0E	0216.0	U	9200.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	0216.0E	0216.0	U	14000.0			QL=4 ST=2 TYP=6
	610	PALE	8	S	0216.0E	0216.0	U	37.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0216.0E	0216.0	U	140.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0257.0E	0259.0	2.0D	96.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0258.0E	0259.0	1.0D	350.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0258.0E	0258.0	2.0D	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0258.0E	0259.0	1.0D	530.0			QL=4 ST=3 TYP=3
	610	PALE	8	S	0258.0E	0258.0	1.0D	150.0			QL=4 ST=3 TYP=3
	410	PALE	8	S	0258.0E	0259.0	1.0D	130.0			QL=4 ST=3 TYP=3
	5900	KISV	2	S/F	0522.4	0524.6	5.0	22.0			
	9100	GORK	23	GRF	0539.0U	1027.0U	441.0D	30.0			
	2950	GORK	23	GRF	0542.0E	1016.9	438.0U	26.0			
	245	LEAR	4	S/F	0544.0E	0546.0	3.0D	98.0			QL=2 ST=2 TYP=3
	410	LEAR	49	GB	0545.0E	0546.0	2.0D	750.0			QL=4 ST=2 TYP=6
	9100	GORK	42	SER	0630.0	0655.1		64.0			
	9100	GORK	42	SER	0630.0	0707.2		28.0			

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	9100	GORK	42	SER	0630.0	0741.2		86.0			
	9100	GORK	42	SER	0630.0	0814.3		18.0			
	9100	GORK	42	SER	0630.0	0715.3		64.0			
	9100	GORK	42	SER	0630.0	0632.4	108.0	292.0			
	9100	GORK	42	SER	0630.0	0738.6		87.0			
	9100	GORK	42	SER	0630.0	0705.8		25.0			
	9100	GORK	42	SER	0630.0	0651.9		33.0			
┌	4995	SVTO	8	S	0631.0E	0632.0	2.0D	80.0			QL=4 ST=2 TYP=3
├	5900	KISV	4	S/F	0631.6	0632.4	1.8	125.0			
├	5900	KISV	29	PBI	0631.6	0633.4	13.5	35.0			
├	2695	LEAR	8	S	0632.0E	0632.0	1.0D	18.0			QL=4 ST=2 TYP=3
├	4995	LEAR	4	S/F	0632.0E	0632.0	4.0D	98.0			QL=4 ST=2 TYP=3
├	8800	LEAR	4	S/F	0632.0E	0632.0	4.0D	160.0			QL=4 ST=2 TYP=3
├	15400	LEAR	8	S	0632.0E	0632.0	2.0D	140.0			QL=4 ST=2 TYP=3
├	15400	SVTO	8	S	0632.0E	0632.0	1.0D	120.0			QL=2 ST=2 TYP=3
├	8800	SVTO	8	S	0632.0E	0632.0	1.0D	170.0			QL=2 ST=2 TYP=3
├	2695	SVTO	8	S	0632.0E	0632.0	1.0D	34.0			QL=2 ST=2 TYP=3
├	9300	KISV	4	S/F	0632.1	0632.4	5.3	201.0			
├	2850	CRIM	1	S	0632.1	0632.6	3.0	25.0	8.0		
└	2950	GORK	2	S/F	0632.2	0632.9	3.1	22.0			
┌	15400	LEAR	8	S	0654.0E	0655.0	2.0D	59.0			QL=4 ST=2 TYP=3
├	8800	LEAR	8	S	0654.0E	0655.0	1.0D	39.0			QL=4 ST=2 TYP=3
├	8800	SVTO	8	S	0654.0E	0655.0	2.0D	68.0			QL=2 ST=2 TYP=3
└	15400	SVTO	8	S	0654.0E	0655.0	1.0D	44.0			QL=2 ST=2 TYP=3
	9500	POTS	42	SER	0654.4	0741.4	75.6	77.0			
	5900	KISV	2	S/F	0704.5	0705.7	3.7	15.0			
	2950	GORK	1	S	0710.9	0711.3	0.9	3.0			
┌	9300	KISV	21	GRF	0711.1	0715.4	22.1	51.0			
├	8800	SVTO	4	S/F	0712.0E	0715.0	7.0D	74.0			QL=2 ST=2 TYP=3
└	15400	SVTO	8	S	0715.0E	0715.0	U	51.0			QL=2 ST=2 TYP=3
┌	9300	KISV	21	GRF	0735.4	0741.3	20.8	79.0			
└	15400	LEAR	4	S/F	0737.0E	0741.0	6.0D	150.0			QL=4 ST=2 TYP=3
┌	8800	LEAR	20	GRF	0737.0E	0738.0	5.0D	55.0			QL=4 ST=2 TYP=2
└	8800	SVTO	4	S/F	0737.0E	0738.0	9.0D	90.0			QL=2 ST=2 TYP=3
┌	5900	KISV	22	GRF	0737.4	0740.5	15.8	24.0			
└	15400	SVTO	4	S/F	0738.0E	0741.0	4.0D	140.0			QL=2 ST=2 TYP=3
┌	9300	KISV	2	S/F	0813.7	0814.3	2.5	15.0			
└	5900	KISV	2	S/F	0813.7	0814.4	5.5	22.0			
	33	UPIC	8	S	0826.4	0826.5	0.6				
┌	5900	KISV	21	GRF	0921.0	0923.3	16.9	10.0			
└	9300	KISV	21	GRF	0922.7	0923.9	13.0	14.0			
┌	9300	KISV	23	GRF	0953.4	1012.6	43.8	22.0			
└	5900	KISV	23	GRF	0954.7	1014.9	42.5	24.0			
	9100	GORK	42	SER	1000.0	1027.0		32.0			
	9100	GORK	42	SER	1000.0	1024.7		20.0			
┌	9100	GORK	42	SER	1000.0	1002.8	33.0	42.0			
└	9300	KISV	4	S/F	1002.1	1002.9	2.2	24.0			
	5900	KISV	2	S/F	1002.4	1010.4	9.7	12.0			
	9300	KISV	2	S/F	1024.2	1027.0	5.4	15.0			
	9300	KISV	22	GRF	1109.1	1113.8	25.1	17.0			
	9300	KISV	22	GRF	1109.1	1123.9		17.0			
	5900	KISV	22	GRF	1109.5	1118.0	26.0	12.0			
	33	UPIC	8	S	1132.4	1132.6	0.4				
	245	SVTO	8	S	1137.0E	1137.0	1.0D	180.0			QL=4 ST=2 TYP=3
	950	GORK	21	GRF	1142.3	1231.2	83.7D	20.0			
┌	245	SGMR	4	S/F	1151.0E	1152.0	8.0D	150.0			QL=2 ST=2 TYP=3
└	245	SVTO	8	S	1152.0E	1152.0	1.0D	140.0			QL=4 ST=2 TYP=3
	9300	KISV	46	C	1226.0	1236.5	22.5	344.0			
	9300	KISV	46	C	1226.0	1230.8		120.0			
┌	2850	CRIM	45	C	1226.5	1236.0		278.0			
└	19600	BERN	46	C	1226.5	1237.0	47.1	10.9			
	2850	CRIM	45	C	1226.5	1228.1		87.0			
	2850	CRIM	29	PBI	1226.5	1242.5	20.0	46.0			
	2850	CRIM	45	C	1226.5	1226.8	13.0	119.0	90.0		
┌	5200	BERN	46	C	1227.2	1236.4	37.5	23.4			
├	5900	KISV	46	C	1227.2	1236.6	26.6	372.0			
├	5900	KISV	46	C	1227.2	1230.8		158.0			
├	3100	BERN	46	C	1227.8	1236.4	36.9	17.2			
├	9100	GORK	46	C	1228.0	1236.5		273.0			

S O L A R R A D I O E M I S S I O N
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OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	9100	GORK	46	C	1228.0	1230.8	32.0U	76.0			
	11800	BERN	46	C	1228.1	1236.4	45.4	18.9			
	35000	BERN	46	C	1228.2	1237.6	29.8	10.1			
	8400	BERN	46	C	1228.4	1236.4	46.0	23.0			
	3000	POTS	45	C	1228.4	1236.5	58.1	600.0			
	4995	SGMR	4	S/F	1229.0E	1236.0	19.0D	390.0			QL=4 ST=2 TYP=5
	4995	SVTO	4	S/F	1229.0E	1236.0	22.0D	380.0			QL=2 ST=2 TYP=5
	1470	POTS	4	S/F	1229.0	1236.0	31.0	150.0			
	9500	POTS	23	GRF	1229.0	1236.0	46.5	225.0			
	808	ONDR	49	GB	1229.0	1236.5	39.0	218.0			
	2695	SGMR	4	S/F	1230.0E	1236.0	18.0D	260.0			QL=4 ST=2 TYP=5
	2695	SVTO	4	S/F	1230.0E	1236.0	18.0D	280.0			QL=2 ST=2 TYP=5
	8800	SVTO	4	S/F	1230.0E	1236.0	25.0D	310.0			QL=2 ST=2 TYP=5
	8800	SGMR	4	S/F	1230.0E	1230.0	690.0D	86.0			QL=4 ST=1 TYP=3
	2950	GORK	46	C	1230.0	1231.1	30.0U	100.0			
	2950	GORK	46	C	1230.0	1236.5		237.0			
	536	ONDR	46	C	1231.0	1233.7	15.0	94.0			
	650	GORK	4	S/F	1232.0	1237.0	7.0	220.0			
	1415	SGMR	4	S/F	1232.0E	1237.0	16.0D	150.0			QL=4 ST=2 TYP=3
	600	HUMN	4	S/F	1232.0	1238.0	28.0	98.0	11.0		
	15400	SGMR	4	S/F	1232.0E	1232.0	688.0D	16.0			QL=4 ST=1 TYP=3
	950	GORK	4	S/F	1232.0	1236.8	14.1	250.0			
	1415	SVTO	4	S/F	1234.0E	1237.0	7.0D	150.0			QL=2 ST=2 TYP=3
	15400	SGMR	4	S/F	1235.0E	1236.0	7.0D	130.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1235.0E	1237.0	5.0D	130.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	1235.0E	1236.0	6.0D	140.0			QL=2 ST=2 TYP=3
	610	SVTO	4	S/F	1235.0E	1237.0	4.0D	160.0			QL=4 ST=2 TYP=3
	650	GORK	29	PBI	1239.0	1239.0	15.0D	55.0			
	9500	CUBA	1	S	1418.0	1418.7	2.0	7.0	3.0		
	15000	CUBA	21	GRF	1440.0	1613.0	317.0	74.0	37.0		29L
	9500	CUBA	2	S/F	1446.0	1447.4	2.0	7.0	3.0		
	6700	CUBA	1	S	1452.9	1457.5	6.1	11.0	5.0		10R
	11800	BERN	46	C	1509.4	1525.4	38.2	13.4			
	8400	BERN	46	C	1510.6	1525.3	34.6	11.5			
	9500	CUBA	21	GRF	1520.0	1616.0	75.0	48.0	24.0		
	9500	CUBA	1	S	1521.0E	1522.0	2.0D	7.0			
	6700	CUBA	21	GRF	1521.0	1616.0	84.0	36.0	18.0		5R
	19600	BERN	46	C	1523.3	1525.4	7.8	5.1			
	9500	CUBA	46	C	1523.9	1525.5	11.1	124.0	28.0		
	8800	SGMR	4	S/F	1524.0E	1525.0	7.0D	160.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1524.0E	1525.0	5.0D	110.0			QL=4 ST=2 TYP=3
	15000	CUBA	45	C	1524.1	1525.5	9.9	122.0	23.0		82L
	6700	CUBA	46	C	1524.9	1525.5	11.1	86.0	12.0		13L
	4995	SGMR	8	S	1525.0E	1525.0	U	66.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1540.5	1543.7	5.9	15.0	7.0		
	6700	CUBA	2	S/F	1542.8	1543.7	2.2	13.0	6.0		7R
	6700	CUBA	1	S	1545.1	1545.8	2.1	6.0	3.0		25R
	6700	CUBA	1	S	1609.2	1609.4	1.3	3.0	1.0		74L
	6700	CUBA	2	S/F	1620.3	1621.8	3.5	20.0	10.0		10L
	6700	CUBA	2	S/F	1639.1	1639.9	3.4	12.0	6.0		16L
	6700	CUBA	21	GRF	1708.0	1713.0	109.0	20.0	10.0		12R
	9500	CUBA	2	S/F	1720.0	1721.6	5.9	19.0	9.0		
	2800	PENT	3	S	1736.8	1739.0	8.8	41.5	12.0		
	610	PALE	49	GB	1737.0E	1738.0	3.0D	590.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	1737.0E	1739.0	5.0D	50.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1737.0E	1737.0	1.0D	28.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1737.0E	1739.0	12.0D	170.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1737.0E	1739.0	10.0D	120.0			QL=4 ST=2 TYP=3
	6700	CUBA	45	C	1737.1	1738.9	16.9	150.0	51.0		4L
	9500	CUBA	45	C	1737.2	1739.2	5.5	134.0	65.0		
	15000	CUBA	45	C	1737.2	1744.2	17.1	136.0	36.0		25L
	15400	PALE	8	S	1738.0E	1738.0	U	36.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	1742.0E	1742.0	1.0D	55.0			QL=4 ST=2 TYP=3
	9500	CUBA	30	PBI	1742.7		16.5	44.0	22.0		
	15400	PALE	4	S/F	1743.0E	1744.0	6.0D	91.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	1743.2	1744.2	6.7	27.0	13.0		
	6700	CUBA	40	F	1805.0	1808.0	7.0	10.0	5.0		26R
	410	PALE	8	S	1806.0E	1807.0	1.0D	27.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1806.0E	1807.0	1.0D	250.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	245	SGMR	8	S	1806.0E	1807.0	1.0D	140.0			QL=2 ST=2 TYP=3
	15000	CUBA	1	S	1813.1	1813.3	1.9	22.0	11.0		38L
	6700	CUBA	1	S	1826.0	1826.5	3.0	10.0	5.0		13L
	245	PALE	8	S	1831.0E	1831.0	U	70.0			QL=4 ST=2 TYP=3
	6700	CUBA	40	F	1840.0	1843.0	8.0	14.0	7.0		23R
	15000	CUBA	2	S/F	1840.1	1841.2	2.1	20.0	10.0		83L
	9500	CUBA	2	S/F	1840.1	1841.3	3.9	20.0	10.0		
	15000	CUBA	1	S	1842.8	1843.6	1.6	15.0	7.0		46L
	245	PALE	8	S	1851.0E	1851.0	U	55.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	1859.5	1901.2	3.5	31.5	9.0		
	9500	CUBA	2	S/F	1859.5	1900.4	4.4	38.0	19.0		
	6700	CUBA	40	F	1900.0	1905.0	18.0	16.0	8.0		21R
	9500	CUBA	40	F	1906.0	1910.0	6.0	35.0	17.0		
	15000	CUBA	1	S	1908.1	1909.8	4.0	119.0	59.0		21L
	15400	PALE	8	S	1909.0E	1909.0	1.0D	87.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	1909.0E	1909.0	2.0D	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1910.0E	1911.0	1.0D	420.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1910.0E	1911.0	1.0D	25.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1910.0E	1910.0	1.0D	30.0			QL=4 ST=2 TYP=3
	6700	CUBA	46	C	1938.8	1943.1	19.7	45.0	13.0		COMPLEX POL
	15000	CUBA	45	C	1939.1	1943.0	5.9	56.0	13.0		48L
	8800	PALE	4	S/F	1942.0E	1942.0	3.0D	43.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1942.0E	1943.0	1.0D	27.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	1942.0E	1943.0	1.0D	49.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1942.0E	1943.0	4.0D	63.0			QL=4 ST=2 TYP=3
	9500	CUBA	45	C	1942.0	1943.1	8.1	54.0	20.0		
	4995	SGMR	8	S	1943.0E	1943.0	U	27.0			QL=4 ST=2 TYP=3
	9500	CUBA	22	GRF	2019.0	2032.0	17.0	20.0	10.0		
	6700	CUBA	21	GRF	2019.0	2032.0	60.0	38.0	19.0		7L
	2800	PENT	22	GRF	2022.0	2101.0	720.0	23.3	7.0		
	9500	CUBA	1	S	2054.0	2056.3	5.9	51.0	25.0		
	6700	CUBA	1	S	2054.2	2055.2	5.3	38.0	19.0		28L
	15000	CUBA	1	S	2055.3	2056.3	1.8	21.0	10.0		209L
	8800	PALE	8	S	2056.0E	2056.0	U	27.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2056.0E	2056.0	U	48.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2056.0E	2056.0	U	36.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2056.0E	2056.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2056.0E	2056.0	U	74.0			QL=2 ST=2 TYP=3
	410	SGMR	49	GB	2056.0E	2056.0	U	590.0			QL=2 ST=2 TYP=6
	245	PALE	8	S	2111.0E	2111.0	U	90.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2116.0E	2117.0	3.0D	190.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	2301.0E	2302.0	4.0D	56.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	2302.0E	2302.0	3.0D	27.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2302.0E	2302.0	1.0D	35.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2302.0E	2302.0	U	40.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	2302.0E	2302.0	1.0D	64.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	2302.3	2302.5	1.5	26.0			80, 35GHZ:0
	410	LEAR	8	S	2308.0E	2309.0	2.0D	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2309.0E	2309.0	1.0D	44.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	2309.0E	2309.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2309.0E	2309.0	7.0D	54.0			QL=2 ST=3 TYP=3
	17000	NOBE	1	S	2339.3	2339.8	11.0	20.0			80, 35GHZ:0
29	127	TORN	44	NS	0620.0E		490.0D		3.0		V=1
	260	ONDR	43	NS	0945.0	1019.0	109.0	145.0			
	245	SVTO	44	NS	1009.0E	1315.0U	319.0D	110.0			QL=4 ST=2 TYP=1
	245	SGMR	44	NS	1258.0E	1802.0	482.0D	240.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1342.0E		468.0D		49.0		
	280	CUBA	44	NS	1342.0E		468.0D		47.0		
	245	PALE	44	NS	1731.0E	1805.0	610.0D	230.0			QL=4 ST=2 TYP=1
	245	LEAR	44	NS	2158.0E	0451.0	738.0D	390.0			QL=4 ST=2 TYP=1
	200	HIRA	44	NS	2216.0E	2229.0	560.0D	80.0	40.0		ML
	200	HIRA	42	SER	0127.5	0128.4	23.0	300.0			ML
	410	LEAR	8	S	0128.0E	0129.0	1.0D	90.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0128.0E	0129.0	3.0D	190.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0128.0E	0129.0	3.0D	180.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0128.0E	0129.0	4.0D	200.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0128.0E	0129.0	1.0D	200.0			QL=2 ST=3 TYP=3
	17000	NOBE	7	C	0128.8	0140.1		139.0			

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	17000	NOBE	7	C	0128.8	0129.3	19.0	85.0			
	15400	LEAR	8	S	0129.0E	0129.0	1.0D	99.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0129.0E	0129.0	1.0D	38.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0129.0E	0129.0	U	13.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0129.0E	0129.0	4.0D	67.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	0129.0E	0129.0	4.0D	110.0			QL=2 ST=2 TYP=3
	2695	PALE	4	S/F	0129.0E	0129.0	4.0D	43.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0129.0E	0129.0	4.0D	180.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0139.0E	0140.0	2.0D	82.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0139.0E	0140.0	2.0D	160.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	0139.0E	0140.0	3.0D	180.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0139.0E	0140.0	2.0D	72.0			QL=4 ST=2 TYP=3
	35000	NOBE	2	S/F	0139.7	0140.1	2.5	55.0			80GHZ:O
	245	LEAR	4	S/F	0330.0E	0338.0	8.0D	430.0			QL=2 ST=2 TYP=3
	410	LEAR	4	S/F	0331.0E	0338.0	7.0D	39.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0337.0E	0338.0	1.0D	73.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0337.0E	0338.0	1.0D	450.0			QL=4 ST=2 TYP=3
	5900	KISV	23	GRF	0505.4	0512.0	19.6	10.0			
	9300	KISV	2	S/F	0509.1	0510.2	4.1	17.0			
	5900	KISV	1	S	0509.7	0510.3	1.0	16.0			
	5900	KISV	2	S/F	0542.0	0542.5	1.0	9.0			
	9300	KISV	1	S	0542.1	0542.5	0.9	9.0			
	15400	LEAR	8	S	0551.0E	0552.0	1.0D	23.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0551.0E	0552.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0551.0E	0552.0	1.0D	330.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0552.0E	0552.0	U	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0552.0E	0552.0	U	360.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0603.0E	0604.0	1.0D	88.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0613.0E	0614.0	2.0D	1300.0			QL=4 ST=3 TYP=6
	245	SVTO	49	GB	0614.0E	0614.0	1.0D	1100.0			QL=2 ST=3 TYP=6
	410	SVTO	8	S	0615.0E	0615.0	U	410.0			QL=2 ST=3 TYP=3
	15400	LEAR	8	S	0707.0E	0709.0	2.0D	76.0			QL=4 ST=2 TYP=3
	9300	KISV	2	S/F	0711.4	0712.7	6.9	6.0			
	245	LEAR	4	S/F	0727.0E	0733.0	7.0D	69.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0728.0E	0733.0	6.0D	42.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0729.0E	0733.0	4.0D	94.0			QL=4 ST=3 TYP=3
	127	TORN	45	C	0729.1	0731.1	3.0	240.0	120.0		
	8800	SVTO	4	S/F	0731.0E	0733.0	4.0D	18.0			QL=4 ST=3 TYP=3
	9300	KISV	23	GRF	0731.2	0732.3	10.7	6.0			
	5900	KISV	4	S/F	0732.6	0733.7	6.7	54.0			
	8800	LEAR	8	S	0733.0E	0733.0	1.0D	18.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0733.0E	0733.0	2.0D	32.0			QL=4 ST=3 TYP=3
	9300	KISV	2	S/F	0733.2	0733.7	3.4	21.0			
	9500	POTS	22	GRF	0752.8	0801.4	87.2	27.0			
	9300	KISV	23	GRF	0753.4	0754.0	33.6	20.0			
	5900	KISV	22	GRF	0753.4	0801.4	37.8	18.0			
	9300	KISV	45	C	0759.1	0801.3	8.6	21.0			
	9300	KISV	45	C	0759.1	0759.8		17.0			
	245	LEAR	8	S	0801.0E	0801.0	U	58.0			QL=4 ST=2 TYP=3
	2950	GORK	23	GRF	0843.8	1041.2	207.2	15.0			
	9100	GORK	23	GRF	0845.0U	1003.8U	231.0U	25.0			
	8400	BERN	46	C	0942.4	0958.0	45.8	8.0			
	19600	BERN	3	S	0951.7	0958.0	37.8U	34.1			
	9500	POTS	42	SER	0953.2	0958.0	29.8	84.0			
	11800	BERN	46	C	0953.5	0958.0	33.7	17.7			
	9300	KISV	4	S/F	0954.1	0958.0U	5.7	104.0D			
	9300	KISV	30	PBI	0954.1	0959.8	26.8	39.0			
	9100	GORK	46	C	0954.5	0958.1		100.0			
	9100	GORK	46	C	0954.5	0956.5	11.3	37.0			
	35000	BERN	3	S	0955.1	0958.0	7.8	25.2			
	5900	KISV	45	C	0955.6	0958.1		11.0			
	5900	KISV	45	C	0955.6	0956.6	4.7	13.0			
	8800	LEAR	8	S	0957.0E	0958.0	1.0D	65.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0957.0E	0958.0	2.0D	220.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0957.0E	0958.0	2.0D	110.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0957.0E	0958.0	5.0D	270.0			QL=2 ST=2 TYP=3
	5200	BERN	46	C	1008.2	1019.2	21.1U	3.7			
	2850	CRIM	3	S	1009.0	1009.4	1.2	33.0	11.0		
	3100	BERN	3	S	1011.5	1019.2	17.6U	2.6			

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	5900	KISV	23	GRF	1015.3	1017.1		17.0			
	5900	KISV	23	GRF	1015.3	1022.2	31.2	29.0			
	5900	KISV	23	GRF	1015.3	1031.3		20.0			
	5900	KISV	23	GRF	1015.3	1035.7		25.0			
	245	SVTO	8	S	1018.0E	1018.0	1.0D	450.0			QL=2 ST=3 TYP=3
	3000	POTS	42	SER	1018.0	1019.3	14.2	38.0			
	5900	KISV	3	S	1018.0	1018.4	1.6	44.0			
	1470	POTS	42	SER	1018.6	1019.2	21.4	25.0			
	9100	GORK	46	C	1018.7	1022.0		27.0			
	9100	GORK	46	C	1018.7	1019.3	6.7	27.0			
	2950	GORK	1	S	1018.7	1019.3	2.3	28.0			
	9300	KISV	45	C	1018.8	1022.1	6.5	39.0			
	9300	KISV	45	C	1018.8	1019.4		25.0			
	4995	SVTO	8	S	1019.0E	1019.0	U	46.0			QL=2 ST=2 TYP=3
	650	GORK	4	S/F	1019.0	1020.3	1.8	20.0			
	950	GORK	1	S	1019.1	1019.5	1.9	6.0			
	11800	BERN	3	S	1029.8	1035.5	18.4	1.5			
	5200	BERN	46	C	1030.2	1035.6	16.0	1.2			
	3100	BERN	46	C	1030.3	1031.2	7.5	1.4			
	8400	BERN	3	S	1030.4	1035.5	19.0	1.4			
	9300	KISV	20	GRF	1030.9	1035.7	19.6	18.0			
	2950	GORK	1	S	1031.0	1031.3	2.0	20.0			
	2850	CRIM	1	S	1031.1	1031.4	2.0	27.0	9.0		
	2950	GORK	2	S/F	1034.0	1034.8	3.4	5.0			
	9100	GORK	2	S/F	1034.0	1034.9	3.5	13.0			
	33	UPIC	45	C	1034.1	1034.8	3.8				
	650	GORK	4	S/F	1034.5	1036.5	5.4	22.0			
	950	GORK	4	S/F	1034.5	1036.5	2.6	16.0			
	19600	BERN	3	S	1035.4	1036.3	3.0	0.6			
	9300	KISV	23	GRF	1053.2	1101.9	22.6	28.0			
	5900	KISV	23	GRF	1053.9	1101.9	19.0	23.0			
	8400	BERN	46	C	1054.8	1056.3	20.9	9.4			
	11800	BERN	46	C	1054.9	1056.3	18.9	12.3			
	19600	BERN	46	C	1054.9	1056.4	29.1	3.6			
	5200	BERN	46	C	1055.0	1056.4	19.0	1.9			
	9100	GORK	3	S	1055.4	1056.4	2.0	130.0			
	9300	KISV	4	S/F	1055.4	1056.6	5.4	99.0			
	9500	POTS	42	SER	1055.6	1056.2	49.4	110.0			
	5900	KISV	4	S/F	1055.8	1056.5	3.6	41.0			
	8800	SVTO	8	S	1056.0E	1056.0	1.0D	130.0			QL=2 ST=2 TYP=3
	9100	GORK	29	PBI	1057.4	1057.4	16.7	31.0			
	1470	POTS	23	GRF	1108.5	1134.5	35.5	14.0			
	9300	KISV	22	GRF	1136.4	1138.7	10.0	28.0			
	9100	GORK	46	C	1136.5	1141.3		17.0			
	9100	GORK	46	C	1136.5	1138.6	6.6	26.0			
	245	SGMR	8	S	1203.0E	1203.0	U	290.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1203.0E	1203.0	U	270.0			QL=2 ST=2 TYP=3
	15000	CUBA	21	GRF	1405.0E	1414.0	80.0D	26.0	13.0		00L
	6700	CUBA	21	GRF	1405.0E	1454.0	140.0D	21.0			00R
	9500	CUBA	3	S	1409.0	1410.0	8.0	15.0	7.0		
	15000	CUBA	1	S	1410.0	1410.3	1.0	17.0	8.0		61L
	6700	CUBA	1	S	1410.0	1410.5	1.0	10.0	5.0		8L
	1470	POTS	4	S/F	1426.0	1427.4	3.0	7.0			
	6700	CUBA	2	S/F	1545.2	1549.5	6.8	9.0	4.0		17R
	9500	CUBA	2	S/F	1614.5	1615.1	1.2	6.0	3.0		
	15400	PALE	8	S	1718.0E	1719.0	1.0D	110.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	1718.0E	1719.0	1.0D	84.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1718.0	1907.0	252.0D	49.0			5R 2130 OFF
	15000	CUBA	1	S	1718.0	1718.9	3.0	198.0	49.0		22L
	9500	CUBA	3	S	1718.2	1719.0	3.8	114.0	30.0		
	6700	CUBA	1	S	1718.3	1719.1	2.7	32.0	16.0		15R
	15000	CUBA	29	PBI	1721.0		13.0	11.0	5.0		00R
	9500	CUBA	30	PBI	1722.0		15.0	11.0	5.0		
	6700	CUBA	2	S/F	1722.3	1723.5	3.2	15.0	7.0		7R
	9500	CUBA	2	S/F	1723.0	1723.4	1.5	15.0	7.0		
	2800	PENT	22	GRF	1724.0	1746.0	165.0	15.1	7.0		
	6700	CUBA	1	S	1727.0	1727.5	1.0	5.0	2.0		15R
	6700	CUBA	1	S	1734.7	1734.8	0.3	7.0	3.0		11R
	6700	CUBA	2	S/F	1738.9	1739.1	2.0	6.0	3.0		20R

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	6700	CUBA	2	S/F	1748.1	1749.9	4.9	45.0	24.0		5R
	9500	CUBA	2	S/F	1748.2	1749.7	5.0	28.0	14.0		
	6700	CUBA	1	S	1811.0	1811.9	2.3	11.0	5.0		15R
	410	SGMR	8	S	1812.0E	1813.0	1.0D	91.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1819.0E	1820.0	1.0D	80.0			QL=2 ST=2 TYP=3
	410	SGMR	4	S/F	1833.0E	1834.0	5.0D	100.0			QL=2 ST=2 TYP=3
	6700	CUBA	46	C	1847.0	1853.7	19.0	176.0	49.0		8R
	6700	CUBA	46	C	1847.0	1901.8		143.0			2R
	15000	CUBA	21	GRF	1848.0	1854.0	79.0	60.0	30.0		19L
	2800	PENT	4	S/F	1848.6	1853.8	27.2	267.3	80.0		
	4995	PALE	4	S/F	1849.0E	1853.0	25.0D	240.0			QL=2 ST=2 TYP=5
	4995	SGMR	4	S/F	1849.0E	1901.0	22.0D	210.0			QL=4 ST=2 TYP=5
	9500	CUBA	46	C	1849.4	1853.6	15.6	110.0	45.0		
	9500	CUBA	46	C	1849.4	1901.7		108.0			
	2695	PALE	4	S/F	1850.0E	1854.0	15.0D	250.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1850.0E	1853.0	23.0D	140.0			QL=4 ST=2 TYP=5
	610	PALE	4	S/F	1850.0E	1901.0U	22.0D	380.0			QL=2 ST=2 TYP=3
	1415	PALE	4	S/F	1851.0E	1854.0	12.0D	65.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1851.0E	1854.0	18.0D	240.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1851.0E	1853.0	25.0D	130.0			QL=2 ST=2 TYP=3
	1415	SGMR	4	S/F	1853.0E	1854.0	3.0D	54.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1853.0E	1901.0	11.0D	64.0			QL=2 ST=2 TYP=5
	15400	SGMR	4	S/F	1853.0E	1901.0	18.0D	86.0			QL=4 ST=2 TYP=5
	610	SGMR	4	S/F	1853.0E	1901.0	20.0D	390.0			QL=2 ST=2 TYP=5
	2800	PENT	3	S	1858.8	1901.9	8.6	75.7	23.0		
	15000	CUBA	2	S/F	1859.0	1901.5	5.9	72.0	36.0		37L
	410	SGMR	4	S/F	1904.0E	1910.0	9.0D	160.0			QL=2 ST=2 TYP=5
	9500	CUBA	29	PBI	1905.0		30.0D	36.0			1935 DOWN
	6700	CUBA	1	S	1909.2	1909.4	0.6	8.0	4.0		00R
	410	PALE	8	S	1910.0E	1910.0	2.0D	110.0			QL=4 ST=3 TYP=3
	6700	CUBA	40	F	1918.0	1924.0	7.0	12.0	6.0		00R
	6700	CUBA	1	S	1940.6	1941.1	4.4	45.0	22.0		22R
	9500	CUBA	1	S	1940.7	1941.1	2.2	46.0	23.0		
	15000	CUBA	1	S	1940.8	1941.2	1.6	16.0	8.0		00R
	8800	SGMR	8	S	1941.0E	1941.0	U	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2005.0E	2006.0	1.0D	150.0			QL=2 ST=2 TYP=3
	6700	CUBA	40	F	2017.0	2019.0	11.0	28.0	14.0		17L
	2800	PENT	22	GRF	2037.5	2051.0	37.0D	11.5	5.0		
	9500	CUBA	2	S/F	2048.9	2049.1	1.9	26.0	13.0		
	6700	CUBA	2	S/F	2049.0	2050.0	2.0	21.0	10.0		9R
	8800	PALE	8	S	2054.0E	2055.0	2.0D	80.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2055.0E	2055.0	1.0D	54.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2055.0E	2055.0	1.0D	72.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	2055.0E	2055.0	1.0D	81.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	2055.0	2055.6	2.3	74.0	37.0		
	6700	CUBA	1	S	2055.0	2055.8	3.9	83.0	41.0		12R
	15000	CUBA	1	S	2055.2	2055.6	1.1	25.0	12.0		32L
	410	PALE	8	S	2104.0E	2104.0	1.0D	52.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	2109.7	2110.4	1.8	16.0	8.0		
	6700	CUBA	2	S/F	2109.9	2110.4	2.1	14.0	7.0		23L
	2800	PENT	22	GRF	2119.0	2121.5	65.0	18.3	9.0		
	9500	CUBA	40	F	2122.0	2123.0	3.0	17.0	8.0		
	2800	PENT	22	GRF	2202.0	2203.0	16.0	31.3	9.0		
	8800	LEAR	8	S	2349.0E	2349.0	2.0D	45.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	2349.0E	2350.0	2.0D	25.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2349.0E	2349.0	1.0D	37.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	2349.0E	2350.0	2.0D	87.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2349.0E	2350.0	1.0D	83.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2349.0E	2349.0	1.0D	36.0			QL=2 ST=2 TYP=3
	8800	PALE	4	S/F	2349.0E	2350.0	3.0D	50.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2349.0E	2350.0	2.0D	30.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	2349.5	2349.9	1.0	32.0			80, 35GHZ:0
30	245	SVTO	44	NS	0537.0E	0541.0U	590.0D	60.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0620.0E	1030.6	490.0D	4800.0	160.0		V=1
	260	ONDR	43	NS	0945.0	1030.5	77.0	135.0			
	235	CUBA	44	NS	1325.0E		405.0D		17.0		
	280	CUBA	44	NS	1325.0E		485.0D		27.0		
	245	SGMR	44	NS	1434.0E	1434.0	41.0D	110.0			QL=2 ST=2 TYP=1

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
30	245	LEAR	49	GB	0135.0E	0137.0	3.0D	520.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	0137.0E	0137.0	U	750.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0157.0E	0157.0	1.0D	160.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0208.0E	0209.0	2.0D	1600.0			QL=2 ST=2 TYP=6
	100	HIRA	48	C	0208.0	0209.6	2.6	1000.0D			
	200	HIRA	48	C	0208.1	0209.6	3.0	11000.0	1500.0		SL
	245	PALE	8	S	0240.0E	0241.0	1.0D	220.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0249.0	0253.0	12.0	11.2			
	245	PALE	8	S	0251.0E	0251.0	U	300.0			QL=2 ST=2 TYP=3
	2840	PEKG	1	S	0302.0	0304.0	6.0	7.7			
	4995	LEAR	4	S/F	0425.0E	0426.0	6.0D	89.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0425.0E	0426.0	5.0D	110.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	0425.7	0426.5	12.0	33.0			80, 35GHZ:0
	17000	NOBE	1	S	0425.7	0435.9		19.0			
	15400	LEAR	8	S	0426.0E	0426.0	1.0D	46.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0429.0E	0429.0	1.0D	23.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0457.0	0511.0	18.0	26.2			
	650	GORK	4	S/F	0507.8	0508.1	1.2	16.0			
	950	GORK	4	S/F	0507.9	0508.1	1.4	21.0			
	9300	KISV	22	GRF	0515.5	0516.5	25.1	49.0			
	9100	GORK	2	S/F	0515.7	0516.7	4.3	48.0			
	15400	LEAR	8	S	0516.0E	0516.0	1.0D	57.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0516.0E	0516.0	1.0D	35.0			QL=4 ST=2 TYP=3
	5900	KISV	22	GRF	0516.0	0517.1	27.5	33.0			
	17000	NOBE	1	S	0516.0	0516.4	1.5	36.0			80, 35GHZ:0
	245	LEAR	49	GB	0521.0E	0521.0	1.0D	3100.0			QL=2 ST=2 TYP=6
	2840	PEKG	3	S	0522.0	0526.0	14.0	16.9			
	9100	GORK	23	GRF	0524.0U	0700.0	342.0U	124.0			
	9100	GORK	2	S/F	0526.5	0527.6	2.0	20.0			
	245	LEAR	49	GB	0527.0E	0527.0	1.0D	3000.0			QL=2 ST=2 TYP=6
	650	GORK	4	S/F	0527.1	0527.3	1.7	13.0			
	950	GORK	2	S/F	0527.5	0528.1	0.9	6.0			
	2840	PEKG	3	S	0530.0	0534.0	10.0	23.6			
	2950	GORK	23	GRF	0539.0U	0700.0	393.0D	39.0			
	650	GORK	4	S/F	0539.6	0540.5	2.8	164.0			
	610	LEAR	8	S	0540.0E	0540.0	U	64.0			QL=4 ST=2 TYP=3
	950	GORK	4	S/F	0540.0	0541.2	1.8	25.0			
	245	SVTO	8	S	0543.0E	0543.0	1.0D	410.0			QL=2 ST=2 TYP=3
	2950	GORK	2	S/F	0543.2	0544.0	1.8	21.0			
	2850	CRIM	1	S	0543.5	0544.1	1.8	22.0	7.0		
	2840	PEKG	47	GB	0600.0	0619.8	90.0	3677.0			
	650	GORK	47	GB	0609.2	0628.5	50.8	1780.0			
	950	GORK	47	GB	0610.1	0622.4	47.5	670.0			
	5900	KISV	29	PBI	0610.7	0634.6	105.0	311.0			
	5900	KISV	47	GB	0610.7	0621.8	23.9	1919.0			
	9300	KISV	29	PBI	0611.5	0629.0	107.3	133.0			
	9300	KISV	47	GB	0611.5	0622.0U	17.5	1012.0D			
	1415	LEAR	49	GB	0615.0E	0620.0	31.0D	30000.0			QL=4 ST=2 TYP=6
	2695	LEAR	49	GB	0615.0E	0619.0	31.0D	5200.0			QL=4 ST=2 TYP=6
	2850	CRIM	29	PBI	0615.0	0655.0	44.0	17.0	6.0		
	2850	CRIM	47	GB	0615.0	0619.0	40.0	7500.0D			
	610	LEAR	49	GB	0615.0E	0628.0	40.0D	2500.0			QL=4 ST=2 TYP=7
	4995	LEAR	49	GB	0615.0E	0621.0	59.0D	1700.0			QL=4 ST=2 TYP=6
	15400	LEAR	49	GB	0615.0E	0622.0	67.0D	620.0			QL=4 ST=2 TYP=6
	8800	LEAR	49	GB	0615.0E	0621.0	61.0D	990.0			QL=4 ST=2 TYP=6
	8800	SVTO	49	GB	0615.0E	0621.0	78.0D	1200.0			QL=2 ST=2 TYP=6
	4995	SVTO	49	GB	0615.0E	0621.0	72.0D	1400.0			QL=2 ST=2 TYP=6
	2695	SVTO	49	GB	0615.0E	0619.0	1065.0D	5300.0			QL=2 ST=1 TYP=6
	2950	GORK	46	C	0615.0U	0633.2		440.0			
	2950	GORK	46	C	0615.0U	0619.6	45.0D	630.0			
	9100	GORK	46	C	0615.0U	0619.7	45.0D	880.0			
	9100	GORK	46	C	0615.0U	0621.8		1100.0			
	2950	GORK	46	C	0615.0U	0619.8		2200.0			
	35000	NOBE	4	S/F	0615.3	0622.0	52.0	323.0			80GHZ:0
	17000	NOBE	4	S/F	0615.3	0622.0	52.0	478.0			
	1415	SVTO	49	GB	0616.0E	0620.0	30.0D	29000.0			QL=2 ST=2 TYP=6
	610	SVTO	49	GB	0616.0E	0628.0	31.0D	2700.0			QL=4 ST=2 TYP=7
	15400	SVTO	49	GB	0616.0E	0621.0	1064.0D	630.0			QL=2 ST=1 TYP=6
	410	LEAR	49	GB	0619.0E	0652.0	55.0D	660.0			QL=4 ST=2 TYP=7

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

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
30	410	SVTO	49	GB	0620.0E	0652.0	40.0D	820.0			QL=4 ST=2 TYP=7
	245	LEAR	49	GB	0622.0E	0622.0	60.0D	34000.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0622.0E	0622.0	61.0D	27000.0			QL=4 ST=2 TYP=6
	127	TORN	47	GB	0622.2	0625.0U	7.0	13200.0D		D	
	100	HIRA	48	C	0622.3	0622.9	35.0	1000.0D			
	200	HIRA	48	C	0622.4	0622.9	50.0	50000.0	400.0		WL
	9500	POTS	45	C	0636.5	0637.5	109.0	390.0			
	1470	POTS	45	C	0637.2	0721.8U	45.8	610.0			
	3000	POTS	45	C	0637.5U	0641.0U	22.5U	185.0			
	650	GORK	46	C	0708.6	0709.1	3.1	11.0			
	650	GORK	46	C	0708.6	0709.6		13.0			
	950	GORK	2	S/F	0708.7	0709.0	3.5	2.0			
	1415	SVTO	49	GB	0720.0E	0721.0	2.0D	600.0			QL=4 ST=2 TYP=6
	1415	LEAR	49	GB	0721.0E	0721.0	2.0D	660.0			QL=4 ST=2 TYP=6
	9100	GORK	2	S/F	0749.2	0750.0	2.3	22.0			
	9300	KISV	2	S/F	0749.3	0750.0	2.5	20.0			
	33	UPIC	42	SER	0757.5	0757.7	8.2				
	650	GORK	4	S/F	0802.6	0803.8	4.1	66.0			
	950	GORK	4	S/F	0803.4	0803.8	2.3	44.0			
	650	GORK	2	S/F	0834.1	0835.3	3.2	2.0			
	950	GORK	2	S/F	0834.5	0835.3	1.4	2.0			
	9300	KISV	23	GRF	0917.1	0929.7	20.6	16.0			
	5900	KISV	22	GRF	0918.5	0926.1	22.1	18.0			
	9100	GORK	2	S/F	0925.6	0926.1	1.0	18.0			
	9300	KISV	4	S/F	0925.6	0926.2	2.7	28.0			
	3000	POTS	40	F	0950.8U	1002.3U	13.2U	6.0			
	5900	KISV	46	C	0958.7	1003.0	5.9	25.0			
	5900	KISV	46	C	0958.7	1000.6		14.0			
	5200	BERN	46	C	0959.8	1002.9	4.4	1.3			
	8400	BERN	46	C	0959.9	1002.9	13.0	4.1			
	11800	BERN	46	C	1000.0	1002.9	12.9	6.1			
	9300	KISV	4	S/F	1000.3	1003.0	5.2	50.0			
	19600	BERN	3	S	1001.0	1002.9	4.4	4.0			
	50000	BERN	3	S	1001.9	1003.0	1.8	3.8			
	35000	BERN	3	S	1001.9	1002.9	5.8	2.5			
	3100	BERN	3	S	1002.2	1002.8	1.8	0.2			
	9500	POTS	4	S/F	1002.2	1002.8	2.3	41.0			
	9100	GORK	2	S/F	1002.5	1003.0	1.5	54.0			
	2950	GORK	2	S/F	1002.6	1003.0	0.9	5.0			
	9300	KISV	22	GRF	1008.2	1012.0	21.8	13.0			
	5900	KISV	2	S/F	1010.3		5.5	14.0			
	9100	GORK	1	S	1011.6	1012.0	0.8	13.0			
	3000	POTS	40	F	1044.5U	1045.0U	11.0D	14.0			
	5900	KISV	20	GRF	1157.5	1200.3	10.6	17.0			
	9300	KISV	20	GRF	1159.2	1200.8	15.5	12.0			
	11800	BERN	46	C	1252.2	1307.3	39.0	4.7			
	8400	BERN	46	C	1305.3	1307.3	24.8	3.1			
	9500	POTS	42	SER	1306.6	1307.4	33.9	39.0			
	3000	POTS	42	SER	1307.0U	1313.5	8.0U	10.0			
	9500	CUBA	1	S	1358.9	1359.4	1.0	34.0	17.0		
	9500	CUBA	1	S	1412.2	1412.8	2.8	14.0	7.0		
	6700	CUBA	1	S	1539.3	1540.2	2.7	7.0	3.0		18R
	6700	CUBA	20	GRF	1613.0	1618.0	13.0	10.0	5.0		21R
	9500	CUBA	1	S	1613.0	1613.8	6.0	11.0	5.0		
	15000	CUBA	21	GRF	1654.0	1920.0	264.0	27.0	13.0		00R
	235	CUBA	6	S	1709.2	1713.0U	6.7	61.0D			
	280	CUBA	6	S	1709.2	1713.3	6.7	55.0			
	245	SGMR	8	S	1712.0E	1712.0	1.0D	97.0			QL=2 ST=2 TYP=3
	6700	CUBA	20	GRF	1742.0	1749.0	18.0	13.0	6.0		19R
	9500	CUBA	21	GRF	1743.0	1751.0	11.0	8.0	4.0		
	9500	CUBA	1	S	1747.0	1747.8	3.0	13.0	6.0		
	245	PALE	8	S	1758.0E	1758.0	1.0D	120.0			QL=4 ST=2 TYP=5
	245	SGMR	8	S	1758.0E	1758.0	1.0D	130.0			QL=2 ST=2 TYP=3
	245	SGMR	4	S/F	1822.0E	1827.0	6.0D	150.0			QL=2 ST=2 TYP=3
	410	SGMR	4	S/F	1822.0E	1825.0	5.0D	36.0			QL=2 ST=2 TYP=3
	6700	CUBA	21	GRF	1822.0	1827.0	15.0	5.0	2.0		31L
	410	PALE	8	S	1825.0E	1826.0	1.0D	95.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1827.0E	1827.0	U	160.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1832.3	1832.7	3.7	6.0	3.0		29L

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
30	6700	CUBA	1	S	1851.0	1852.5	4.0	5.0	2.0		16L
	2695	PALE	4	S/F	1912.0E	1915.0	7.0D	48.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1912.0E	1913.0	7.0D	160.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1912.0E	1913.0	5.0D	270.0			QL=2 ST=2 TYP=3
	4995	PALE	4	S/F	1912.0E	1913.0	7.0D	120.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1912.0E	1913.0	6.0D	200.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1912.0E	1913.0	6.0D	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1912.0E	1913.0	6.0D	150.0			QL=2 ST=2 TYP=3
	610	SGMR	4	S/F	1912.0E	1915.0	3.0D	150.0			QL=2 ST=2 TYP=3
	245	SGMR	49	GB	1912.0E	1914.0	4.0D	1500.0			QL=2 ST=2 TYP=6
	1415	SGMR	4	S/F	1912.0E	1913.0	6.0D	61.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1912.0E	1913.0	5.0D	41.0			QL=4 ST=2 TYP=3
	9500	CUBA	46	C	1912.0	1913.2	7.0	179.0	49.0		
	6700	CUBA	45	C	1912.1	1913.1	5.9	119.0	35.0		7L
	15000	CUBA	45	C	1912.3	1913.4	6.2	266.0	83.0		28L
	15000	CUBA	45	C	1912.3	1914.9		183.0			29L
	2800	PENT	4	S/F	1912.8	1915.0	7.1	46.7	14.0		
	410	PALE	49	GB	1913.0E	1914.0	6.0D	990.0			QL=4 ST=2 TYP=6
	1415	PALE	4	S/F	1913.0E	1913.0	6.0D	63.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1914.0E	1915.0	1.0D	290.0			QL=4 ST=2 TYP=3
	6700	CUBA	29	PBI	1918.0		5.5	7.0	3.0		00R
	2800	PENT	29	PBI	1919.9	1919.9	50.0	7.7	3.0		
	9500	CUBA	1	S	1928.5	1929.7	5.5	10.0	5.0		
	15000	CUBA	1	S	1929.3	1929.8	0.8	33.0	15.0		30R
	15400	PALE	8	S	1948.0E	1949.0	1.0D	110.0			QL=2 ST=3 TYP=3
	8800	PALE	8	S	1948.0E	1949.0	1.0D	68.0			QL=4 ST=3 TYP=3
	15400	SGMR	8	S	1948.0E	1949.0	2.0D	110.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	1948.0E	1949.0	2.0D	81.0			QL=2 ST=2 TYP=3
	9500	CUBA	3	S	1948.0	1949.1	6.0D	95.0			1954 DOWN
	6700	CUBA	1	S	1948.1	1949.1	3.9	61.0	11.0		14R
	15000	CUBA	46	C	1948.1	1949.3	5.1	153.0	21.0		16R
	6700	CUBA	29	PBI	1952.0		6.5	9.0	4.0		14R
	9500	CUBA	42	SER	2017.0	2019.0	12.0	19.0	9.0		
	2800	PENT	3	S	2018.6	2020.2	4.0	33.9	10.0		
	410	PALE	8	S	2019.0E	2019.0	1.0D	35.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2019.0E	2019.0	1.0D	110.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2019.0E	2019.0	1.0D	26.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2020.0E	2020.0	U	28.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2020.0E	2020.0	U	31.0			QL=4 ST=2 TYP=3
	6700	CUBA	29	PBI	2025.0		8.0	3.0	1.0		00R
	2800	PENT	4	S/F	2224.0	2225.5	4.0	42.1	12.0		
31	245	LEAR	44	NS	0118.0E	0119.0	42.0D	73.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0620.0E		470.0D				V=1
	280	CUBA	44	NS	1407.0E		394.0D		24.0		
	235	CUBA	44	NS	1407.0E		394.0D		14.0		
	2840	PEKG	1	S	0241.0	0242.3	2.0	9.2			
	17000	NOBE	2	S/F	0347.7	0348.1	1.0	29.0			80, 35GHZ:0
	9100	GORK	23	GRF	0442.0E	0803.5	450.0D	27.0			
	9300	KISV	22	GRF	0504.8	0521.9	19.8	8.0			
	2840	PEKG	5	S	0519.0	0527.0	16.0	6.1			
	5900	KISV	2	S/F	0525.1	0527.2	9.2	15.0			
	9300	KISV	22	GRF	0525.1	0531.7	13.5	11.0			
	9100	GORK	2	S/F	0626.9	0627.9	7.1	10.0			
	2950	GORK	23	GRF	0627.0U	0809.5	348.0U	16.0			
	9300	KISV	21	GRF	0705.4	0709.1	15.6	12.0			
	2695	LEAR	8	S	0710.0E	0711.0	1.0D	87.0			QL=4 ST=2 TYP=3
	9300	KISV	23	GRF	0750.0	0804.6	68.0	20.0			
	5900	KISV	23	GRF	0752.6	0804.3	30.0	25.0			
	3100	BERN	46	C	0754.5	0757.9	13.6	2.4			
	8400	BERN	3	S	0754.6	0757.9	5.0	3.6			
	5200	BERN	46	C	0754.9	0757.9	5.1	3.6			
	3000	POTS	4	S/F	0755.5	0758.0	4.0	30.0			
	11800	BERN	46	C	0755.7	0758.0	33.7	3.1			
	15400	LEAR	20	GRF	0756.0E	0758.0	7.0D	110.0			QL=4 ST=2 TYP=2
	4995	LEAR	8	S	0756.0E	0758.0	2.0D	44.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0756.0E	0757.0	2.0D	38.0			QL=4 ST=2 TYP=3
	1470	POTS	4	S/F	0756.0	0757.8	5.0	34.0			
	2950	GORK	2	S/F	0756.1	0758.0	3.3	32.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
31	9300	KISV	4	S/F	0756.2	0758.0	4.0	26.0			
	5900	KISV	4	S/F	0756.2	0758.0	3.7	38.0			
	950	GORK	4	S/F	0756.2	0756.9	4.3	20.0			
	650	GORK	4	S/F	0756.3	0757.3	3.1	15.0			
	9100	GORK	2	S/F	0756.5	0758.0	2.9	34.0			
	600	HUMN	2	S/F	0756.5	0758.0	2.5	18.0	8.0		
	1415	LEAR	8	S	0757.0E	0757.0	1.0D	35.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0757.0E	0757.0	U	69.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0757.0E	0758.0	1.0D	29.0			QL=2 ST=2 TYP=3
	2950	GORK	2	S/F	0802.2	0804.3	6.0	6.0			
	2850	CRIM	45	C	0806.2	0808.0		46.0			
	2850	CRIM	45	C	0806.2	0807.2	2.4	38.0	15.0		
	9100	GORK	2	S/F	0809.2	0811.6	7.6	13.0			
	9300	KISV	2	S/F	0810.1	0811.6	4.5	12.0			
	5900	KISV	2	S/F	0824.7	0827.5	6.7	9.0			
	9300	KISV	2	S/F	0825.4	0827.5	4.9	17.0			
	9100	GORK	2	S/F	0827.2	0827.5	1.1	10.0			
	9300	KISV	2	S/F	0834.7	0835.7	5.5	8.0			
	9100	GORK	2	S/F	0835.3	0835.7	3.0	10.0			
	5900	KISV	46	C	0842.0	0846.5	9.3	25.0			
	5900	KISV	46	C	0842.0	0847.5		24.0			
	11800	BERN	46	C	0844.9	0847.6	6.1	0.8			
	950	GORK	4	S/F	0845.0	0846.5	3.2	18.0			
	3100	BERN	46	C	0845.1	0846.3	4.9	0.5			
	8400	BERN	46	C	0845.4	0846.3	10.1	1.3			
	5200	BERN	46	C	0845.7	0846.4	4.4	1.4			
	9300	KISV	45	C	0845.9	0846.4	3.3	12.0			
	9300	KISV	45	C	0845.9	0847.5	3.3	13.0			
	245	LEAR	8	S	0846.0E	0847.0	1.0D	240.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0846.0E	0847.0	1.0D	310.0			QL=4 ST=2 TYP=3
	2950	GORK	45	C	0846.0	0846.5	2.0	7.0			
	2950	GORK	45	C	0846.0	0847.5		5.0			
	9100	GORK	2	S/F	0846.1	0847.4	3.8	16.0			
	8400	BERN	46	C	0901.3	0909.9	29.7U	5.3			
	11800	BERN	46	C	0902.9	0910.0	28.4U	7.6			
	9100	GORK	46	C	0903.5	0910.0		62.0			
	9100	GORK	46	C	0903.5	0907.1		20.0			
	9100	GORK	46	C	0903.5	0904.8	11.5	13.0			
	19600	BERN	46	C	0903.8	0907.5	9.5	7.0			
	245	LEAR	8	S	0904.0E	0904.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0904.0E	0904.0	1.0D	240.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0904.0E	0904.0	U	140.0			QL=2 ST=3 TYP=3
	9300	KISV	30	PBI	0904.5	0912.0	46.2	25.0			
	9300	KISV	46	C	0904.5	0910.1	7.5	67.0			
	9300	KISV	46	C	0904.5	0910.5	7.5	67.0			
	5900	KISV	30	PBI	0904.6	0912.0	46.0	13.0			
	5900	KISV	4	S/F	0904.6	0910.5	7.4	25.0			
	15400	LEAR	4	S/F	0905.0E	0909.0	10.0D	360.0			QL=4 ST=2 TYP=3
	650	GORK	40	F	0905.6	0906.4	5.3	35.0			
	650	GORK	40	F	0905.6	0908.5		45.0			
	15400	SVTO	4	S/F	0906.0E	0909.0	5.0D	82.0			QL=2 ST=2 TYP=3
	950	GORK	40	F	0906.7	0908.5		48.0			
	950	GORK	40	F	0906.7	0906.8	4.2	13.0			
	245	SVTO	4	S/F	0907.0E	0907.0	6.0D	240.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0909.0E	0909.0	U	80.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0909.0E	0909.0	1.0D	43.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0909.0E	0909.0	U	160.0			QL=4 ST=2 TYP=3
	9300	KISV	2	S/F	0924.9	0926.6	3.5	8.0			
	5900	KISV	2	S/F	0925.1	0926.8	2.7	4.0			
	9300	KISV	4	S/F	0932.8	0935.4	5.7	28.0			
	8400	BERN	4	S/F	0933.4	0935.2	5.6	2.5			
	3100	BERN	4	S/F	0933.5	0935.3	4.2	1.7			
	5200	BERN	4	S/F	0933.7	0935.3	4.1	4.9			
	5900	KISV	4	S/F	0933.9	0935.3	5.1	56.0			
	11800	BERN	3	S	0933.9	0935.4	5.5	0.7			
	610	SVTO	8	S	0934.0E	0934.0	1.0D	180.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0934.1	0935.3	2.2	13.0			
	4995	LEAR	8	S	0935.0E	0935.0	U	63.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0935.0E	0935.0	U	75.0			QL=2 ST=2 TYP=3

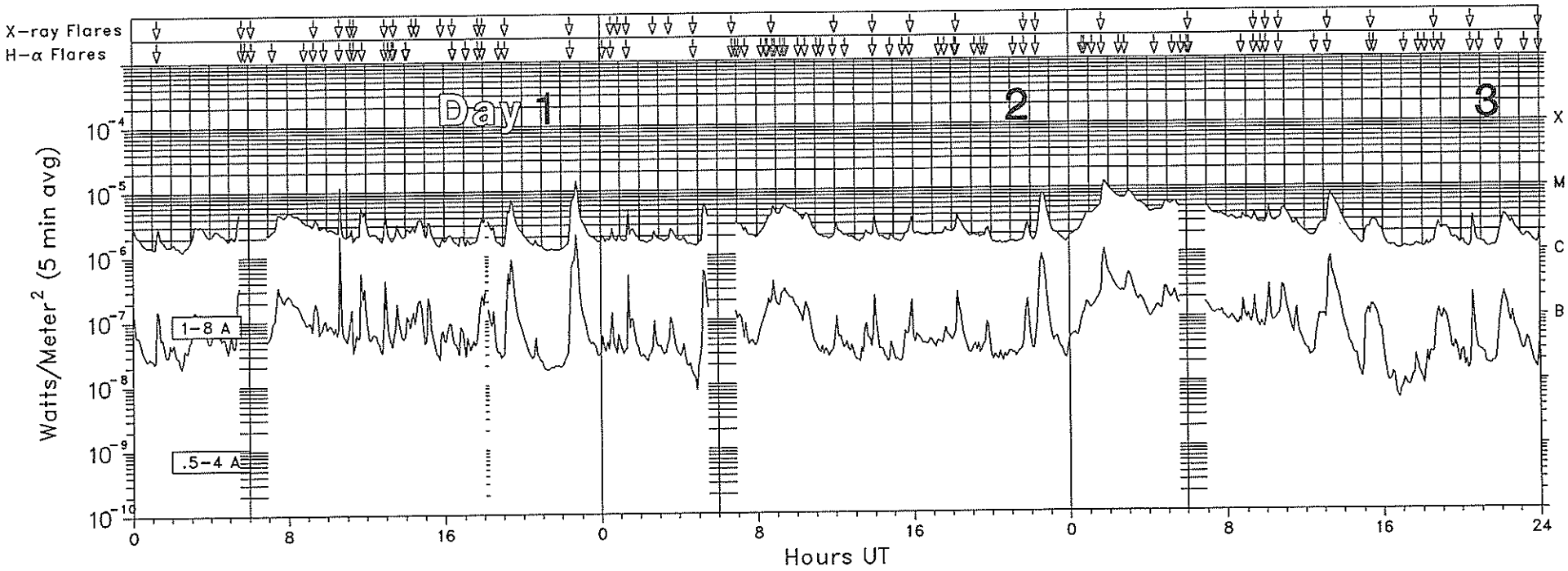
S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

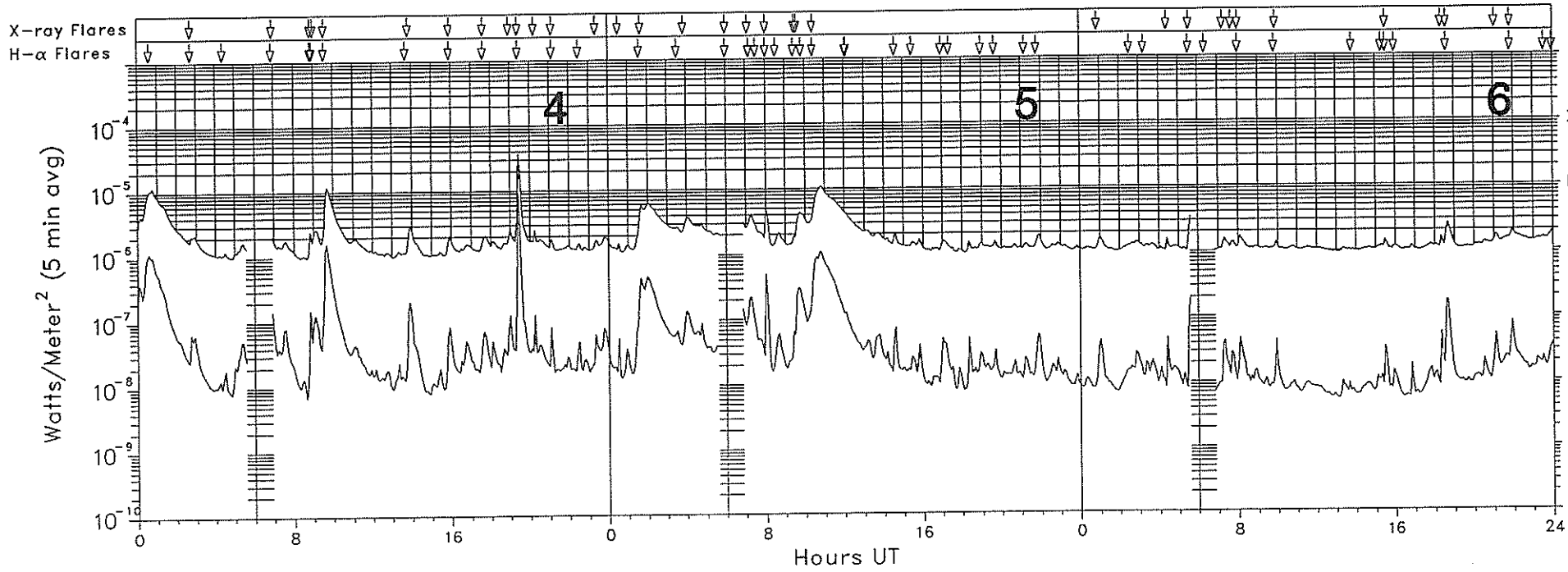
OCTOBER 1991

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
31	9100	GORK	2	S/F	0935.0	0935.3	1.3	20.0			
	15400	LEAR	8	S	0936.0E	0936.0	U	74.0			QL=4 ST=2 TYP=3
	2850	CRIM	1	S	0944.3	0945.4	2.0	10.0	3.0		
	260	ONDR	41	F	0958.0	1011.0	105.0	95.0			
	5900	KISV	2	S/F	1003.2	1008.5	6.5	9.0			
	9300	KISV	22	GRF	1003.7	1028.9	32.1	8.0			
	245	LEAR	8	S	1010.0E	1010.0	1.0D	100.0			QL=4 ST=2 TYP=3
	127	TORN	47	GB	1010.0	1010.9	2.2	2600.0	400.0		
	950	GORK	2	S/F	1035.1	1035.2	1.2	4.0			
	650	GORK	2	S/F	1035.1	1035.3	1.0	4.0			
	9300	KISV	2	S/F	1045.5	1046.3	1.8	5.0			
	9300	KISV	25	R	1059.9	1102.1		4.0			
	9300	KISV	21	GRF	1118.8	1122.5	37.6	16.0			
	5900	KISV	21	GRF	1119.5	1122.5	12.9	33.0			
	9100	GORK	2	S/F	1121.0	1122.6	2.7	14.0			
	2950	GORK	2	S/F	1122.0	1122.6	1.0	5.0			
	9300	KISV	2	S/F	1224.5	1225.6	2.2	8.0			
	5900	KISV	2	S/F	1225.2	1225.6	0.5	8.0			
	9300	KISV	2	S/F	1232.8	1238.7	7.6	7.0			
	33	UPIC	4	S/F	1239.0	1239.2	0.7				
	9500	CUBA	1	S	1356.0	1356.7	8.0D	31.0			1404 OFF
	6700	CUBA	1	S	1414.0	1414.5	1.2	7.0	3.0		11R
	9500	CUBA	1	S	1527.0	1527.5	5.0	13.0	7.0		
	15000	CUBA	40	F	1649.0	1650.0	2.0	13.0	6.0		00L
	6700	CUBA	40	F	1649.0	1650.0	2.0	9.0	4.0		11L
	9500	CUBA	1	S	1716.5	1717.3	4.5	10.0	5.0		
	6700	CUBA	1	S	1717.0	1717.3	1.0	6.0	3.0		00R
	280	CUBA	6	S	1817.2	1817.5	0.8	68.0			
	235	CUBA	6	S	1817.2	1817.5	0.8	56.0			
	245	PALE	8	S	1819.0E	1820.0	1.0D	200.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1819.0E	1820.0	1.0D	42.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1819.0E	1820.0	1.0D	44.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1819.0E	1820.0	1.0D	150.0			QL=2 ST=2 TYP=3
	9500	CUBA	1	S	1819.3	1819.9	2.7	60.0	30.0		
	6700	CUBA	1	S	1819.4	1820.1	2.4	30.0	15.0		5L
	15000	CUBA	1	S	1819.5	1819.9	2.5	51.0	25.0		43L
	9500	CUBA	42	SER	1825.0	1825.4	4.5	16.0	8.0		
	6700	CUBA	1	S	1825.0	1825.5	1.1	10.0	5.0		25L
	6700	CUBA	1	S	1827.5	1828.3	2.5	17.0	8.0		13L
	6700	CUBA	29	PBI	1830.0		5.1	4.0	2.0		20R
	6700	CUBA	1	S	1849.2	1849.8	2.3	29.0	14.0		10L
	15000	CUBA	1	S	1849.3	1849.9	2.9	20.0	10.0		35L
	9500	CUBA	1	S	1849.3	1849.9	1.7	8.0	4.0		
	6700	CUBA	2	S/F	1941.0	1941.5	3.0	11.0	5.0		00R
	9500	CUBA	2	S/F	1941.2	1941.4	4.8	17.0	8.0		
	15000	CUBA	1	S	1957.1	1957.5	0.9	12.0	6.0		72L
	280	CUBA	6	S	2036.0	2040.0	7.0	65.0			
	235	CUBA	6	S	2036.0	2040.0	7.0	25.0			
	2800	PENT	3	S	2036.2	2040.8	6.5	15.6	5.0		
	8800	PALE	4	S/F	2117.0E	2118.0	3.0D	200.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2117.0E	2118.0	3.0D	240.0			QL=2 ST=2 TYP=3
	4995	PALE	8	S	2117.0E	2118.0	1.0D	53.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2139.0E	2139.0	1.0D	170.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	2139.0E	2139.0	1.0D	55.0			QL=4 ST=2 TYP=3
	17000	NOBE	2	S/F	2255.1	2258.7	16.0	39.0			80, 35GHZ:0
	245	LEAR	4	S/F	2357.0E	2358.0	7.0D	130.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2357.0E	2358.0	1.0D	160.0			QL=4 ST=2 TYP=3

GOES-7 X-RAY DETECTOR

October 1991





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Oct 91

GOES-7 X-RAY DETECTOR

October 1991

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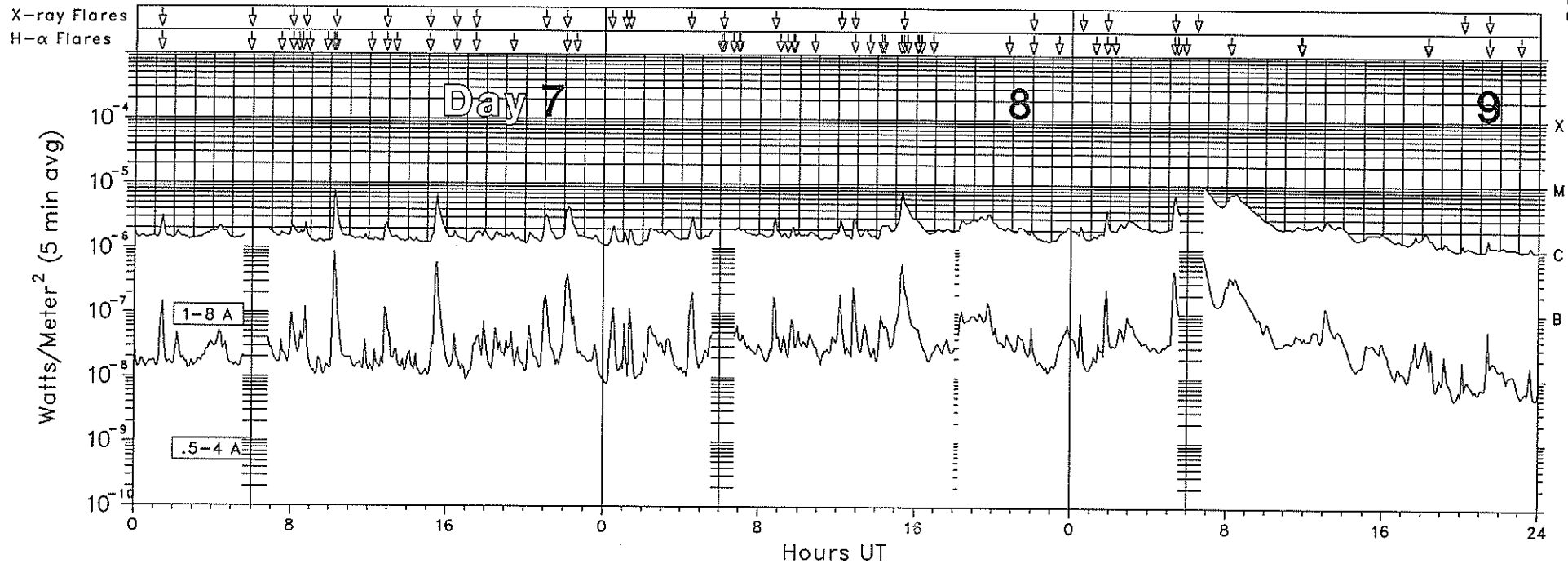
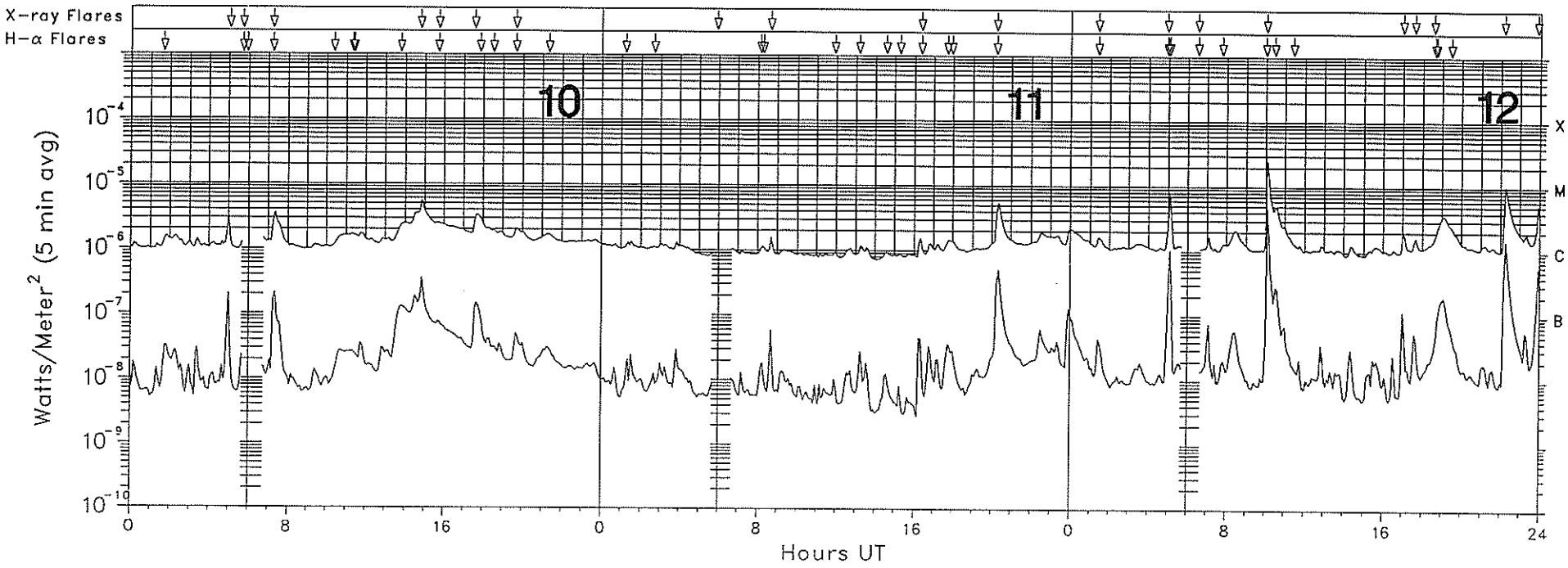
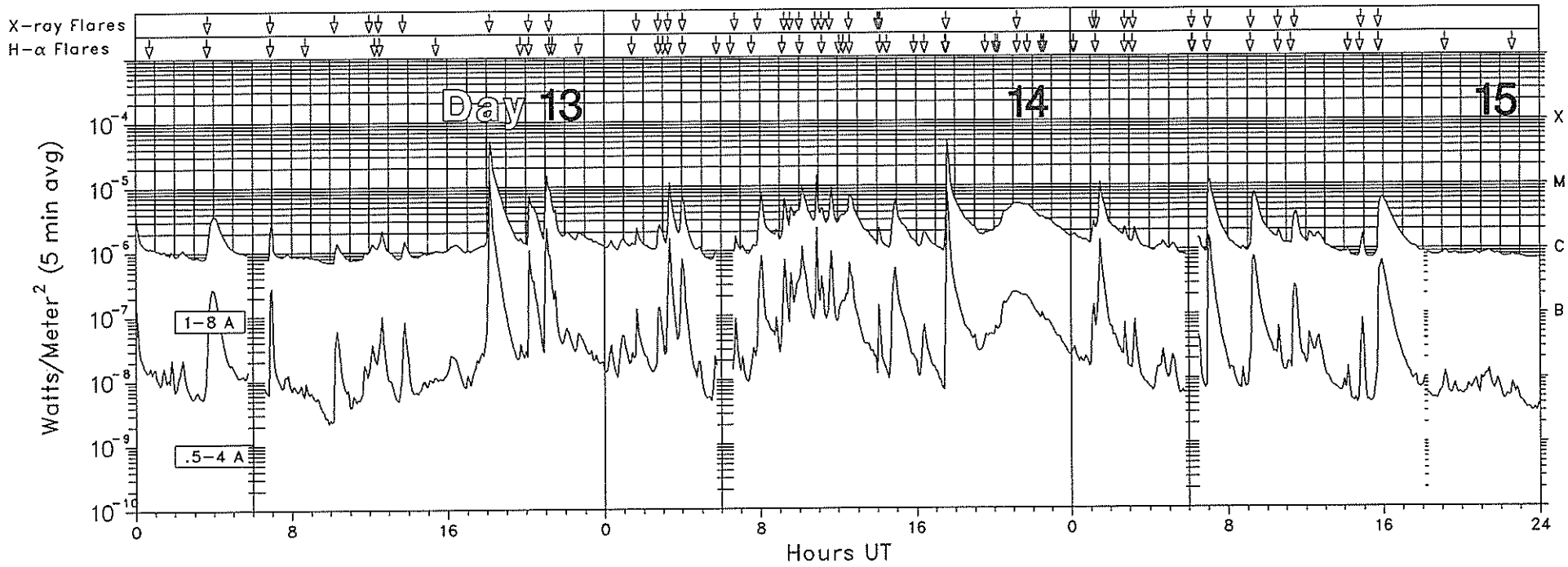
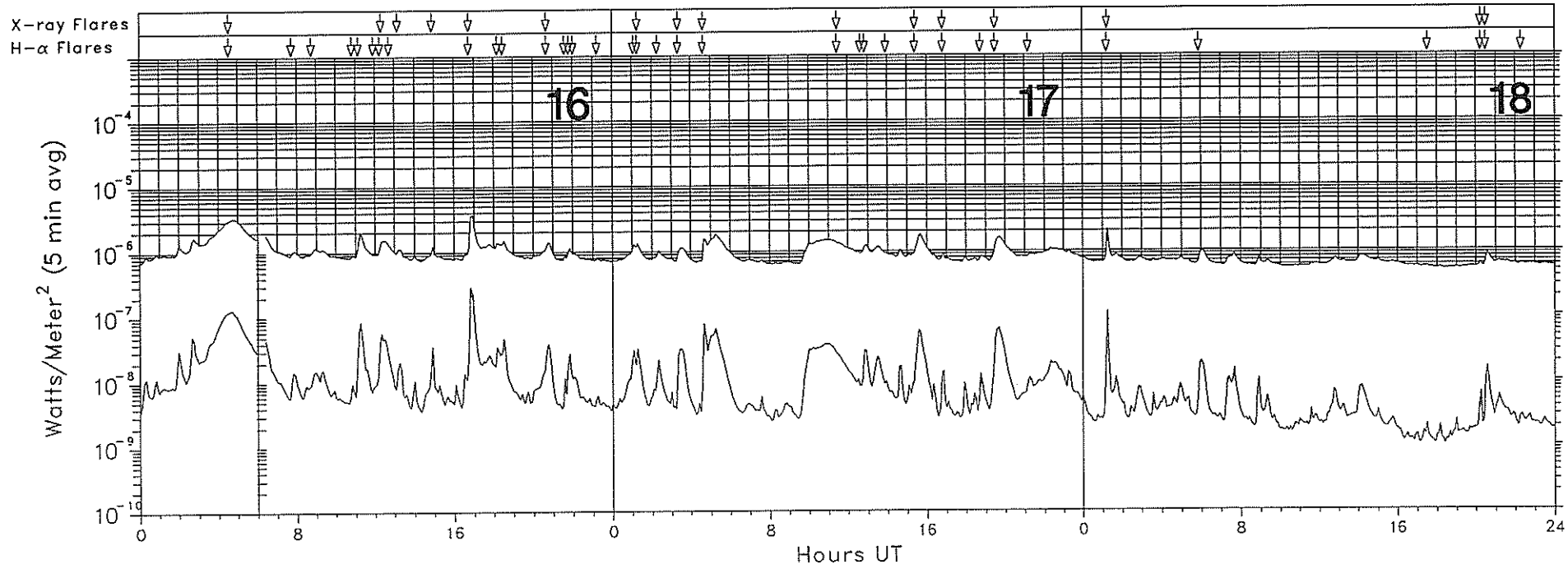




GOES-7 X-RAY DETECTOR

October 1991





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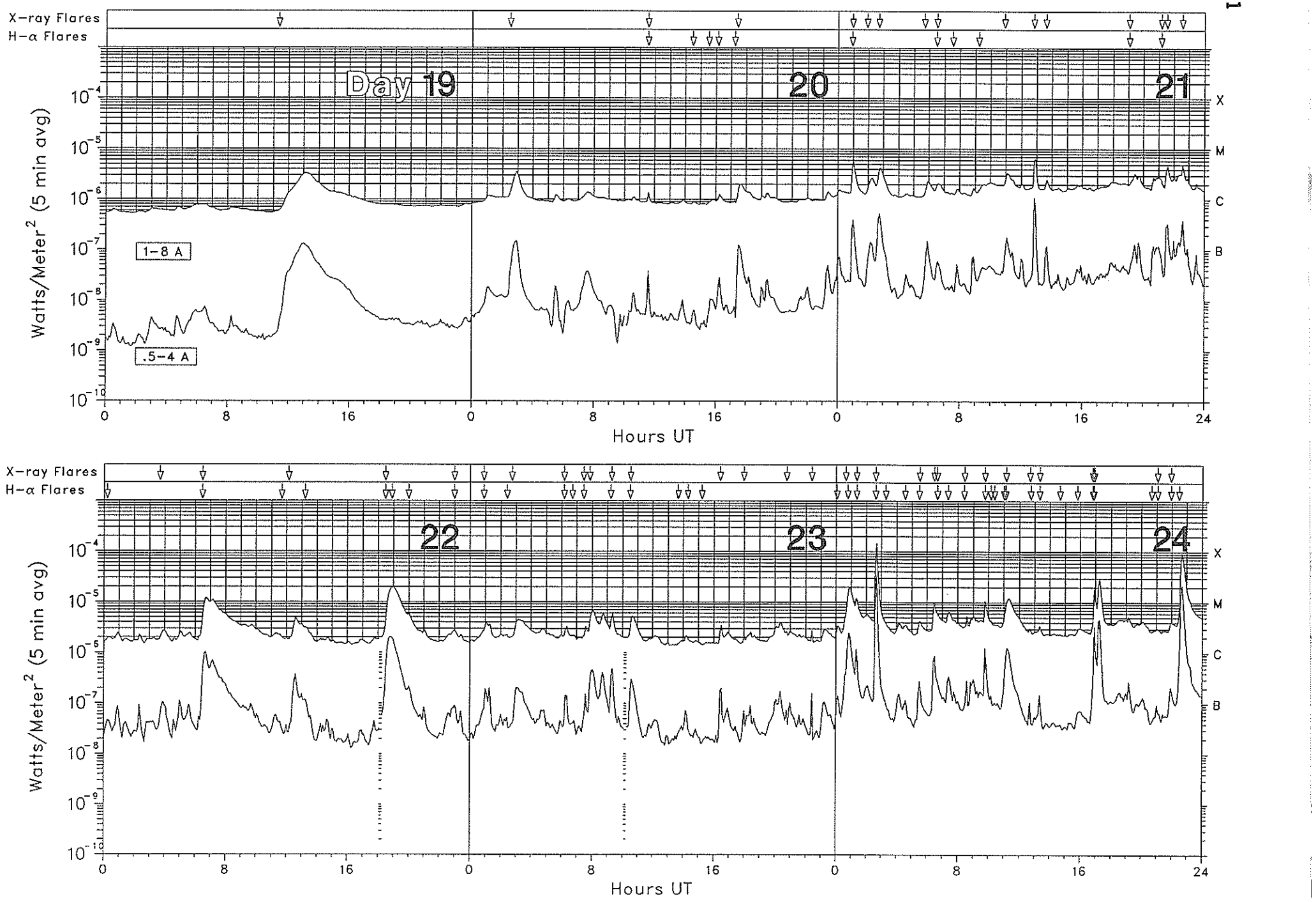
GOES-7 X-RAY DETECTOR

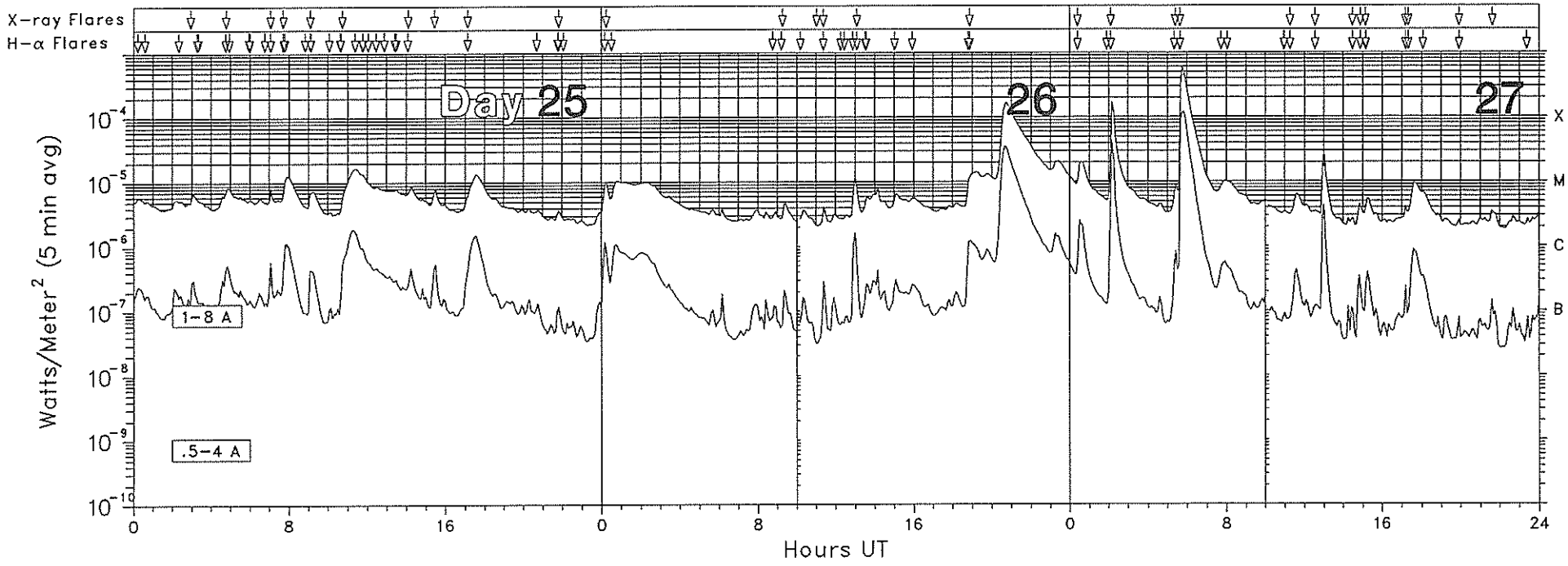
October 1991

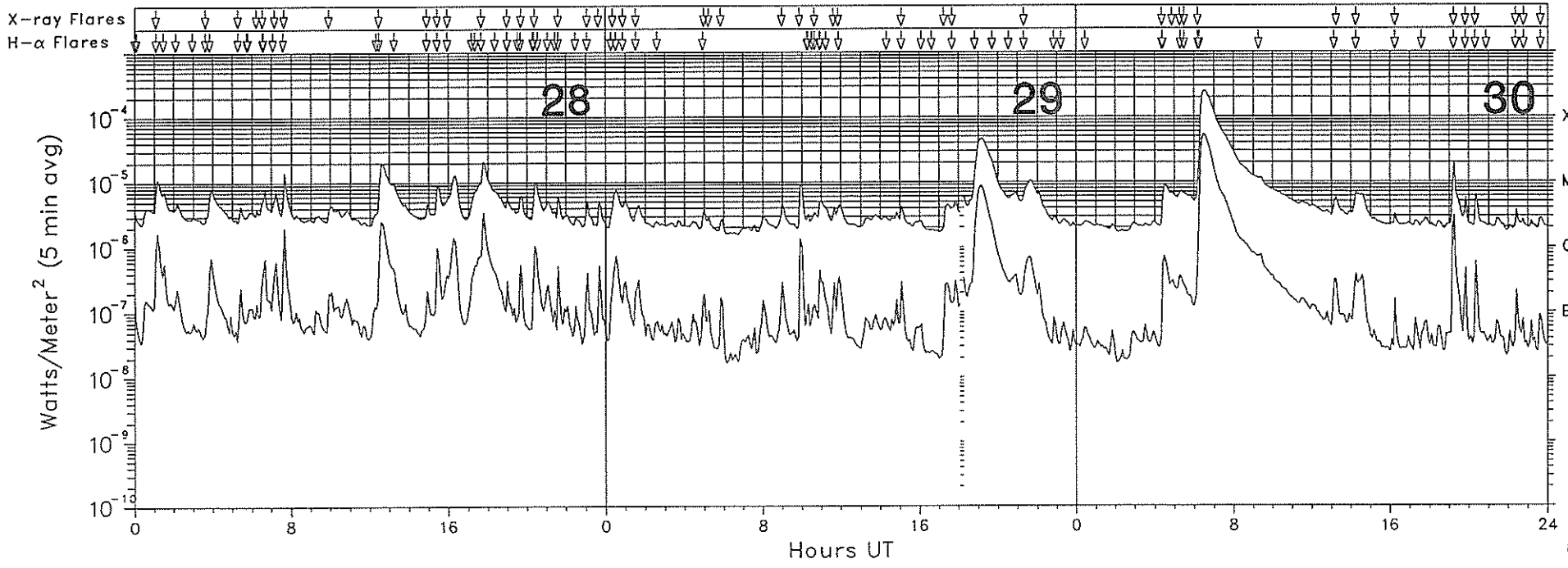
94 Oct 91



GOES-7 X-RAY DETECTOR

October 1991

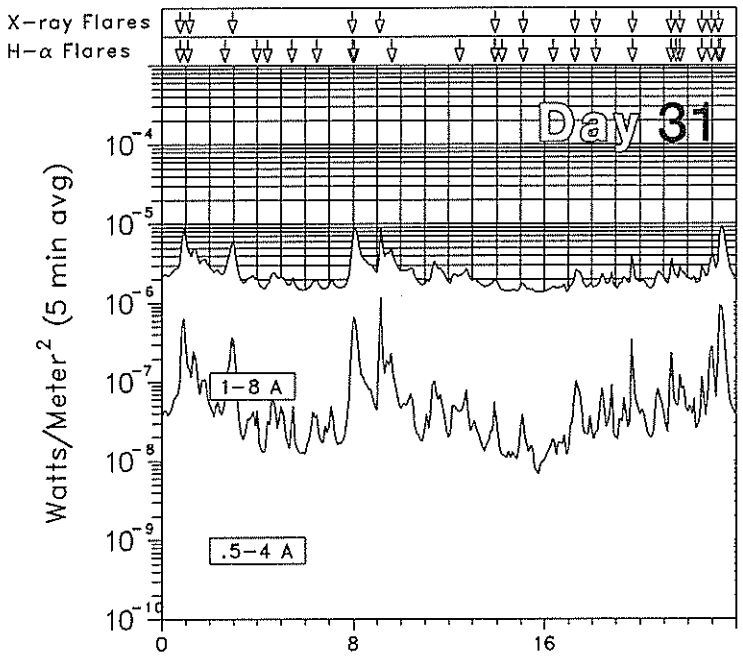




95 oct 91

GOES-7 X-RAY DETECTOR

October 1991



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

October 1991

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
01	0117E	0119	0130D	S11	E07	SF	C3.6	6850
01	0540E	0541	0604D	S13	E07	SF	C9.0	6850
01	0610E	0616	0625D	S22	E13	SF	M3.0	6853
01	0923E	0925	0931D	S12	E08	SF	C4.5	6850
01	1040E	1044	1049D	S12	E07	SF	M1.7	6850
01	1113E	1113	1123D	S11	E01	SF	C3.5	6850
01	1125E	1149	1223D	S12	E05	1N	C7.5	6850
01	1300E	1302	1315D	S13	E06	SN	C6.8	6850
01	1327E	1339	1353D	S13	W00	SF	C3.6	6850
01	1424E	1426	1430D	S11	W05	SF	C3.5	6850
01	1437E	1515	1532D	S12	E02	SB	C4.1	6850
01	1551	1555	1559				C2.2	
01	1627E	1639	1653D	S12	E03	SF	C2.3	6850
01	1745E	1753	1759D	S12	W04	SF	C4.0	6850
01	1759E	1832	1850D	S13	W00	SN	C3.7	6850
01	1909E	1919	1957D	S12	E02	SN	C9.0	6850
01	2228	2249	2328D	S12	W08	1B	M1.8	6850
02	0034E	0034	0039D	S13	W02	SF	C3.2	6850
02	0057	0100	0102				C2.6	
02	0124E	0125	0127D	S21	E03	SN	M1.0	6853
02	0245	0249	0251				C2.7	
02	0333	0337	0349				C2.7	
02	0449E	0517	0551D	S13	W05	1F	C6.5	6850
02	0647E	0649	0658D	S13	W08	SF	C4.0	6850
02	0849E	0851	0905D	S13	W06	SF	C6.2	6850
02	1201E	1203	1214D	N19	E18	SF	C3.2	6855
02	1359E	1402	1412D	S12	W14	SF	C4.6	6850
02	1555	1558	1600				C4.1	
02	1815E	1817	1842D	S18	W10	SN	C4.5	6853
02	2142E	2154	2201D	S13	W13	SF	C3.1	6850
02	2219E	2236	2316D	S12	W14	SN	C8.4	6850
03	0141E	0143	0233D	S20	W09	1N	M1.2	6853
03	0607E	0623	0706D	S11	W22	SF	M1.1	6850
03	0927E	0931	0934D	S12	W28	SF	C4.1	6850
03	1004E	1009	1027D	S13	W20	SF	C5.8	6850
03	1043E	1107	1126D	S13	W20	SF	C4.7	6850
03	1314E	1319	1413D	S17	W18	SF	C7.9	6853
03	1527E	1528	1535D	S13	W26	SF	C3.1	6850
03	1841E	1843	1848D	S12	W30	SF	C3.0	6850
03	2031E	2039	2110D	N09	E25	1N	C3.9	6861
03	2359	0047	0133				M1.1	6853
04	0243E	0247	0330D	S13	W34	SF	C2.3	6850
04	0655E	0656	0703D	S15	W34	SF	C2.4	6850
04	0850E	0850	0859D	N10	E18	SF	C2.9	6861
04	0858E	0914	0924D	S15	W36	SN	C2.7	6850
04	0933E	0944	1004D	S18	W30	SN	M1.2	6853
04	1349E	1354	1423D	S12	W37	SF	C3.3	6850
04	1554E	1557	1609D	S13	W38	SN	C2.2	6850
04	1738E	1742	1835D	S12	W38	SF	C2.2	6850
04	1857	1902	1905				C2.9	
04	1924E	1928	2018D	N09	E12	SB	M5.2	6861
04	2014	2017	2019				C3.5	
04	2108E	2108	2114D	S11	W41	SF	C1.9	6850
04	2321	2325	2328				C2.1	
05	0031	0035	0037				C1.9	
05	0140	0218	0243D	S19	W41	1F	C6.3	6853
05	0351	0408	0416				C3.8	
05	0558E	0609	0649D	N07	E05	SF	C4.1	6861
05	0705	0715	0723				C4.2	
05	0800E	0804	0814D	N10	E05	SF	C6.1	6861
05	0928E	0937	1016D	S13	W49	SF	C2.4	6850
05	0935	0948	1007				C4.7	
05	1024E	1048	1137D	S13	W48	SN	M1.1	6850
06	0052	0102	0110				C1.7	
06	0424	0427	0429				C1.9	
06	0532E	0534	0555D	N08	W06	SN	C3.7	6861
06	0715	0720	0725				C1.6	
06	0741	0743	0748				C1.5	
06	0800E	0818	0829D	N09	W08	SF	C1.7	6861
06	0953	0957	0959				C2.0	
06	1531E	1533	1538D	S08	W74	SN	C1.5	6850
06	1820	1823	1827				C1.7	
06	1836E	1837	1849D	S12	W66	SF	C2.8	6850
06	2104	2107	2112				C1.8	
06	2151E	2154	2159D	S13	W64	SF	C2.1	6850
07	0117E	0125	0137D	N08	W18	SF	C3.5	6861
07	0554E	0557	0614D	N08	W20	SF	C6.0	6861
07	0801E	0803	0811D	S14	W71	SF	C2.3	6850
07	0842	0845	0847				C3.0	
07	1016E	1016	1020D	S13	W82	SF	C9.9	6850
07	1251E	1254	1319D	N09	W24	SF	C2.8	6861
07	1503E	1531	1558D	N09	W25	SN	C8.9	6861
07	1626E	1626	1636D	S11	W84	SF	C2.0	6850
07	1727E	1728	1809D	N08	W27	SF	C2.1	6861
07	2100	2108	2116				C3.4	
07	2202E	2206	2232D	S13	W79	SN	C5.2	6850
08	0020	0031	0038				C2.3	
08	0104	0108	0112				C1.9	
08	0119	0124	0130				C2.2	
08	0425	0438	0443				C3.3	
08	0606E	0615	0618D	N12	E28	SF	C3.4	6870
08	0845	0850	0855				C3.2	
08	1208	1212	1217				C2.9	
08	1249E	1251	1258D	S14	W87	SF	C3.5	6850
08	1521	1521U	1534D	N08	W41	SF	C9.0	6861
08	2200E	2201	2210D	N19	W17	SF	C2.4	6867
09	0031	0035	0037				C2.7	
09	0148E	0149	0211D	N08	W43	1N	C5.2	6861
09	0515E	0517	0526D	N08	W50	SN	C7.5	6861
09	0626	0637	0715				M1.3	
09	2005	2008	2010				C1.4	
09	2123E	2127	2130D	S25	E68	SF	C1.9	6873
10	0502	0502U	0508D				C3.8	
10	0543E	0543	0554D	S27	E63	SF	C3.0	6873
10	0715E	0734	0758D	N08	W65	SF	C3.6	6861
10	1448	1454	1459				C5.7	
10	1544E	1545	1548D	S25	E59	SF	C2.9	6873
10	1735	1746	1758				C3.8	
10	1939E	1939	1952D	S21	E53	SF	C2.1	6873
11	0555	0600	0606				C1.6	
11	0838	0843	0847				C1.6	
11	1621E	1645	1731D	S24	E35	SF	C2.0	6873
11	2015E	2018	2046D	S25	E34	SB	C5.9	6873
12	0125E	0133	0148D	S26	E39	SF	C1.7	6873
12	0457E	0503	0514D	S27	E31	SF	C9.2	6873
12	0632E	0705	0718D	S26	E29	SF	C1.8	6873
12	1002	1008	1025				M2.9	
12	1659	1705	1709				C2.4	
12	1735	1739	1750				C1.8	
12	1834	1908	1927				C3.7	
12	2209	2218	2230				M1.1	
12	2352	2358	0003				C5.8	
13	0342E	0350	0430D	S27	E19	SF	C3.7	6873

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

Preliminary Listing

October 1991

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region
13	0657E	0659	0712D	N21	E86	1N	C7.3	6879
13	1015	1023	1037				C1.3	
13	1202	1212	1224				C1.4	
13	1231	1242	1249				C2.3	
13	1345	1352	1359				C1.6	
13	1810E	1816	1941D	N22	E82	1N	M6.0	6879
13	2010E	2013	2112D	N23	E79	1N	M1.1	6879
13	2112E	2113	2127D	N22	E80	SF	M1.6	6879
14	0139	0144	0148				C2.6	
14	0247E	0248	0255D	N21	E76	SF	C3.1	6879
14	0318E	0320	0356D	N21	E76	SF	M1.3	6879
14	0402E	0403	0415D	N21	E77	SF	C8.9	6879
14	0643	0646	0650				C1.9	
14	0754E	0754U	0808D	S22	E44	SN	C8.8	
14	0916E	0919	0932D	N23	E71	SF	C6.7	6879
14	0934	0940	0943				C6.0	
14	1002	1013	1028				M1.1	
14	1052	1057	1103				M1.8	
14	1112	1115	1117				M1.0	
14	1136	1142	1149				M1.0	
14	1235	1239	1243				C9.7	
14	1404	1408	1414				C2.3	
14	1409	1449	1513D	N21	E69	1B	C6.1	6879
14	1734E	1739	1849D	S24	E34	3N	M6.6	6878
14	2112E	2119	2123D	N22	E66	SF	C5.2	6879
15	0108E	0112	0124D	N23	E65	SF	C2.9	6879
15	0119E	0130	0156D	S20	E22	1N	M1.3	6878
15	0247E	0248	0251D	N21	E65	SF	C2.7	6879
15	0312E	0317	0330D	N23	E60	SF	C2.3	6879
15	0611E	0613	0640D	S26	W10	1N	C6.8	6873
15	0700E	0704	0810	S23	E30	1N	M1.4	6878
15	0912	0923	0938				C7.7	
15	1035	1038	1042				C2.1	
15	1127	1129U	1143D	S23	E28	SN	C4.0	6878
15	1452E	1454	1511D	S24	E25	SF	C2.1	6878
15	1545E	1548	1605D	S24	E24	1N	C6.3	6878
16	0432E	0457	0512D	S24	W23	SF	C3.4	6873
16	1219E	1222	1231D	S26	W25	SF	C1.6	6873
16	1309E	1311	1320D	N21	E46	SF	C1.3	6879
16	1453	1457	1500				C1.3	
16	1644E	1652	1719D	S26	W29	2N	C4.6	6873
16	2040E	2049	2106D	S26	W29	SF	C1.4	6873
17	0116E	0117	0126D	N19	E36	SF	C1.4	6879
17	0321E	0322	0342D	S26	W34	SF	C1.1	6873
17	0438E	0442	0501D	S26	W35	SF	C1.7	6873
17	1128E	1155	1216D	S24	W37	SF	C1.5	6873
17	1523E	1533	1630D	N05	W43	SF	C1.8	6872
17	1649E	1649	1702D	S24	W01	SF	C1.0	6878
17	1930E	1931	2000D	S26	W41	SF	C1.6	6873
18	0114E	0114	0132D	S23	W47	1F	C2.2	6875
18	2013E	2014	2024D	N21	E20	SF	B7.0	6879
18	2030E	2034	2049D	S26	W56	SF	B8.9	6873
19	1122	1310	1351				C3.3	
20	0230	0257	0304				C3.5	
20	1134E	1136	1146D	S13	W17	SF	C1.4	6884
20	1726	1741	1803				C2.0	
21	0057E	0059	0122D	S13	W24	SN	C6.7	6884
21	0155	0215	0230				C2.5	
21	0241	0250	0300				C4.3	
21	0541	0559	0614				C2.4	
21	0631E	0632	0700D	N22	W16	SF	C2.1	6879
21	1055	1109	1119				C3.5	
21	1248	1256	1300				C7.8	
21	1337	1342	1349				C2.5	
21	1903	1916	1951D	N22	W23	SF	C3.4	6879
21	2110E	2112	2118D	S14	E89	SF	C2.9	6891
21	2132E	2133	2143D	S13	E89	SF	C5.5	6891
21	2233	2237	2242				C5.1	
22	0340	0359	0410				C2.7	
22	0627E	0636	0739D	S11	E85	1F	M1.2	6891
22	1208	1237	1257				C5.0	
22	1828	1845	2009D	S09	E69	1N	M1.9	6891
22	2259E	2300U	2325D	S16	W45	SF	C2.8	6884
23	0053E	0105	0136D	N19	E60	SF	C5.0	6888
23	0244	0311	0348				C4.5	
23	0610E	0619	0626D	S17	E70	SF	C4.3	6891
23	0726E	0744	0747D	S13	E70	SF	C3.3	6891
23	0750	0805	0819				C6.7	
23	0915	0921	0926				C6.6	
23	1031	1045	1057				C5.4	
23	1625	1631	1635				C4.2	
23	1758	1801	1805				C2.3	
23	2045	2048	2050				C3.3	
23	2223	2225	2227				C5.2	
24	0038	0100U	0137D	S12	E61	SN	M1.9	6891
24	0121E	0128	0139D	S20	E62	SF	M1.4	6892
24	0237E	0241	0315D	S14	E59	2N	X2.1	6891
24	0530E	0533	0541D	N10	W04	SF	C4.8	6886
24	0628	0633U	0742D	S12	E56	1F	M1.2	6891
24	0640E	0724	0732D	N18	E84	SF	C6.9	6893
24	0825E	0837	0847D	S12	E54	SF	C5.8	6891
24	0946E	0947	1002D	S15	E63	SN	M1.3	6891
24	1107E	1108	1113D	S12	E53	SF	M1.2	6891
24	1241	1244	1246				C4.2	
24	1319	1321	1324				C3.7	
24	1648E	1650	1659D	S20	E54	SF	M2.5	6892
24	1654E	1714	1749D	S15	E51	1B	M3.2	6891
24	2103E	2105	2113D	S09	E53	SF	C4.0	6891
24	2156E	2236	0015D	S12	E46	1N	M9.8	6891
25	0257	0306	0317				C7.0	
25	0446E	0448	0452D	S12	E44	SF	C8.7	6891
25	0704E	0705	0715D	S13	E44	SF	C8.4	6891
25	0744E	0753	0814D	S20	E41	SF	M1.3	6892
25	0907	0908U	0928	S12	E43	SF	C7.8	6891
25	1044E	1059	1341D	S09	E37	1B	M1.7	6891
25	1407E	1409	1414D	N15	E66	SF	C9.1	6893
25	1527	1530	1534				C9.9	
25	1708E	1735	1805D	S11	E35	SF	M1.4	6891
25	2150E	2151	2201D	S19	E39	SF	C3.8	6892
26	0015	0016	0304	S11	E34	SF	M1.1	6891
26	0916E	0921	0943D	S11	E20	SF	C5.0	6891
26	1102E	1307	1401D	S14	E26	1F	M1.2	6891
26	1123E	1124	1137D	S15	E27	SF	C4.3	6891
26	1306E	1412	1452D	S03	E69	2N	C8.9	6896
26	1853	2051	2325	S09	E20	2N	X1.7	6891
27	0024E	0031	0059D	S14	E19	1N	M2.3	6891
27	0206E	0210	0257D	S11	E20	2B	X1.9	6891
27	0524E	0527	0533D	S15	E17	SF	C9.8	6891
27	0538E	0549	0658D	S13	E15	3B	X6.1	6891
27	1115E	1135	1220D	N17	E37	SF	C6.5	6893

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

October 1991

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
27	1233E	1304	1328D	S14	E14	1N	M3.3	6891
27	1429E	1430	1433D	S14	E10	SF	C3.7	6891
27	1453E	1453	1502D	S14	E12	SF	C4.5	6891
27	1508E	1523	1542D	N19	E02	SF	C5.8	6888
27	1710E	1710	1720D	S14	E12	SF	C4.3	6891
27	1718E	1737	1832D	N16	E33	1N	C9.7	6893
27	1954E	1957	2020D	N19	W02	SF	C2.8	6888
27	2137E	2139	2222D	N15	E32	SF	C3.8	6893
28	0104E	0110	0144D	S11	E07	SF	M1.1	6891
28	0338E	0353	0409D	N17	E29	SF	C8.9	6893
28	0517E	0525	0547D	S17	E06	SF	C4.5	6892
28	0613	0616	0620				C4.1	
28	0632E	0642	0646D	S14	E03	SF	C9.6	6891
28	0709E	0715	0724D	S14	E03	SF	C7.7	6891
28	0738E	0742	0751D	S14	E03	SN	M1.5	6891
28	0955	1008	1014				C4.6	
28	1228	1240	1341				M2.1	
28	1453E	1457U	1505D	N22	E31	SF	C4.9	6893
28	1525E	1526	1543D	S11	W04	SF	M1.1	6891
28	1557E	1619	1704D	S11	W00	SB	M1.3	6891
28	1739E	1748	1843D	S10	W06	1N	M2.2	6891
28	1858E	1901	1909D	S20	W07	SN	C6.1	6892
28	1941E	1944	1954D	S15	W02	SF	C7.4	6891
28	2023E	2027	2040D	S11	W05	1B	M1.3	6891
28	2136E	2137	2152D	S09	W00	1N	C7.9	6891
28	2304E	2304	2312D	S15	W08	SF	C6.8	6891
28	2338	2343	2350				C5.6	
29	0021E	0024	0044D	S18	W09	SN	C7.7	6891
29	0051E	0100	0130D	N16	E16	SF	C5.8	6893
29	0131E	0132	0146D	S13	W06	SF	C4.7	6891
29	0459E	0459	0504D	S13	W11	SF	C4.8	6891
29	0513	0516	0518				C3.4	
29	0550	0555	0600				C3.0	
29	0858	0902	0910				C4.8	
29	0953	1000	1007				M1.2	
29	1040	1050U	1104D	S15	E10	SF	C6.2	6901
29	1137	1142	1146				C4.5	
29	1152	1156	1200				C4.9	
29	1505E	1506	1520D	S12	W15	SF	C4.5	6891
29	1714	1732	1750D	S15	E05	SN	C5.1	6901
29	1740E	1855	2031	S10	W23	2N	M4.7	6891
29	2119E	2126	2214D	S07	W20	SN	M1.1	6891
30	0421E	0430	0516D	S22	W11	2F	C9.0	6892
30	0451E	0456	0511D	S16	W22	SF	C7.2	6891
30	0515E	0515U	0522D	S11	W16	SN	C7.7	
30	0528E	0528	0540D	S13	W32	SF	C7.0	6891
30	0611E	0621	0903D	S08	W25	3B	X2.5	6891
30	1315	1315	1341D	S13	W27	SF	C5.7	6891
30	1415	1416U	1458D	S14	W36	SN	C6.9	6891
30	1614E	1617	1626D	S10	W35	SN	C4.0	6891
30	1913E	1916	1930D	S10	W35	1B	M4.3	6891
30	1948E	1949	1957D	S12	W23	SN	C7.1	6891
30	2019E	2021	2035D	S12	W40	SN	C6.8	6891
30	2223E	2226	2229D	S12	W31	SF	C5.3	6891
30	2247	2248U	2335	S12	W40	SF	C3.2	6891
30	2338E	2339	0003D	S16	W27	SF	C3.2	6892
31	0045E	0056	0131D	S20	W30	1F	C9.0	6892
31	0110E	0124	0144D	S13	W34	SN	C5.7	6891
31	0257	0301	0303				C7.5	
31	0758E	0807	0818D	S15	W38	SF	C8.9	6891
31	0906	0912	0918				M1.0	
31	1356E	1357	1408D	S13	W41	SF	C2.2	6891
31	1506E	1506	1521D	S11	W34	SF	C1.9	6891
31	1717E	1723	1755D	S20	W37	SF	C3.1	6892
31	1809E	1829	1853D	N18	W17	SF	C3.0	6893
31	1941E	1945	1949D	S18	W48	SF	C5.3	6892
31	2118E	2118	2125D	S12	W42	SF	C3.9	6891
31	2140E	2140	2144D	S12	W44	SF	C3.1	6891
31	2235E	2238	2301D	N15	W22	SF	C3.1	6893
31	2259E	2321	2354	S11	W50	SN	C4.5	6891
31	2317E	2322	2347D	N16	W24	SF	C9.5	6893

Preliminary GOES Satellite Data
Daily Average X-ray Background
Nov 1990 - Oct 1991

Day	1990 Nov	Dec	1991 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1	B3.8	C1.0	B7.4	C2.7	C1.3	C2.3	B5.8	C3.5	C1.7	C1.8	B6.6	C1.3
2	B3.7	B7.6	B7.6	C3.9	C2.3	C1.4	B4.7	C1.9	C1.6	C1.5	B8.9	C1.5
3	B4.0	B7.6	B7.4	C3.2	C2.9	B9.2	B6.3	C1.1	C1.7	C1.2	C1.2	C1.8
4	B5.2	B8.6	B7.8	C3.2	C2.9	B8.4	B7.2	C1.6	C1.7	C1.0	C1.0	C1.1
5	B6.7	C1.1	B9.5	C2.0	C2.1	B8.2	B9.1	C1.5	C2.1	B8.4	B8.5	C1.2
6	B9.4	C1.3	C1.1	C2.1	C1.8	C1.0	C1.4	C1.7	C1.7	B7.4	C1.2	B9.9
7	C1.1	C1.2	C1.5	C1.9	C2.2	B9.4	C1.4	C1.6	---	B7.9	C2.6	C1.2
8	B9.8	C1.2	C2.3	C2.0	C1.8	B8.8	C1.5	C1.3	B8.6	B6.4	C3.1	C1.4
9	B8.6	C1.5	C2.0	B8.5	C1.9	C1.3	C1.2	C1.6	B8.9	B7.2	C1.2	C1.4
10	B7.6	C1.8	C1.9	B7.1	C1.4	C2.0	C1.2	C2.3	C1.0	B5.9	C1.4	C1.0
11	B9.6	C2.1	C1.3	B7.3	C1.4	C2.0	C1.5	C2.9	C1.1	B5.6	B9.8	B8.1
12	C1.1	C2.1	B9.4	C1.0	C1.6	C2.3	C2.0	C1.9	C1.1	B5.8	B8.1	C1.0
13	C1.0	C1.9	B7.3	C1.0	C1.6	C2.0	C1.2	C1.8	C1.3	B6.9	B7.5	B7.6
14	C1.1	C1.3	B6.2	C1.1	C1.8	C2.4	C1.4	C1.5	C1.1	C1.1	B7.5	C1.1
15	C1.1	C1.0	B6.7	C1.2	C1.8	C2.9	C1.0	C2.6	C1.0	C2.0	---	B8.4
16	C1.2	B9.1	B7.9	---	C2.3	C3.1	C1.0	C1.6	C1.0	C2.7	B7.0	B7.9
17	C1.5	B7.6	B9.2	C2.3	C2.7	C1.8	C1.0	C1.3	C1.1	C1.7	B8.0	B6.5
18	C1.2	C1.3	C1.2	C2.7	C3.3	C1.5	C1.0	C1.2	C1.4	C1.5	B8.5	B5.4
19	C1.0	C1.6	C1.6	C2.4	C2.5	C1.3	B7.2	C1.0	C1.6	C1.5	B8.4	B5.6
20	B7.5	C1.5	C1.6	C2.3	C2.1	C2.1	B6.6	B9.3	C1.7	C1.6	B8.1	B8.3
21	B8.3	C1.3	C1.5	C2.0	C2.0	C1.1	B9.5	B8.9	C1.4	C1.4	B9.1	C1.3
22	*	C1.3	C2.2	C1.6	C1.9	C2.0	B8.5	C1.0	C2.0	C1.9	B9.5	C1.5
23	B8.0	C1.3	C1.6	C1.5	C3.3	C1.0	B7.9	B7.6	C1.3	C1.9	C1.1	C1.5
24	B8.8	C1.7	C1.9	C1.5	C2.1	B6.3	B7.0	B9.4	C1.3	C2.1	C1.5	C2.3
25	C1.0	C1.2	C2.2	C1.5	C1.7	B6.2	B9.9	C1.0	C1.1	C3.0	C1.6	C3.3
26	B9.8	C1.1	C2.0	C1.2	C1.2	B5.7	B9.8	B8.3	C1.0	C2.0	C2.0	C2.6
27	C1.1	B9.2	C2.4	C1.1	C1.2	B6.2	C1.0	C1.9	B8.7	C1.4	C1.0	C2.6
28	C1.4	B7.9	C2.6	C1.1	C1.2	B8.0	C1.5	C1.6	B9.3	C1.1	B8.7	C2.6
29	C1.4	B8.4	C2.2		C1.6	B6.9	C1.5	C1.3	C1.0	C1.1	C1.3	C1.8
30	C1.1	B8.6	C2.8		C1.9	B5.9	--	C1.5	C1.2	C1.1	C1.0	C1.9
31		B7.8	C2.9		C1.8		C1.4		C1.6	B7.7		C1.4

MASS EJECTIONS FROM THE SUN

OCTOBER 1991

Site	Mo Day	Observed UT Start	Max	End	Location RA°	R/Ro	Freq or Wavelength	Kind of Event
KHAR	Oct 01	0940 E		0952	210	0.25	H-alpha	S
KHAR	Oct 01	0948		1002	163	0.36	H-alpha	S
KHAR	Oct 01	1000		1005 D	154	0.33	H-alpha	S
POTS	Oct 01	1038.5		1118.7			800- 40 MHz	IV Pulsations
POTS	Oct 01	1253.3		1314.5			400- 40 MHz	IV Pulsations
POTS	Oct 01	1508.8		1521.0			400- 40 MHz	IV
WROC	Oct 04	1336		1350	131	0.25	H-alpha	SP
POTS	Oct 05	0757.7		0823 U			40-800 MHz	IV,II Harmonic
KHAR	Oct 06	1035 E		1048 D	091	1.00-1.03	H-alpha	S
KHAR	Oct 06	1038 E		1200 D	243-246	0.92-0.95	H-alpha	S
WROC	Oct 07	1251		1328	266	0.05	H-alpha	S (several)
KHAR	Oct 08	0915 E		0933 D	259	1.00	H-alpha	S
KHAR	Oct 08	0920 E		0935 D	274	0.65	H-alpha	S
KHAR	Oct 08	0933 E		0944 D	260	1.00	H-alpha	S
KHAR	Oct 08	0947 E		1002 D	260	1.00	H-alpha	S
KHAR	Oct 08	1004 E		1142 D	259	1.00	H-alpha	S
WROC	Oct 08	1039		1120	260	0.03	H-alpha	S
KHAR	Oct 08	1133 E		1150 D	068	0.64	H-alpha	S
KHAR	Oct 09	0925 E		0937 D	246	1.00	H-alpha	S
KHAR	Oct 10	1005 E		1020 D	290	1.00	H-alpha	S
KHAR	Oct 10	1030 E		1033 D	261	0.92	H-alpha	S
KHAR	Oct 10	1030 E		1038 D	265	1.00-1.05	H-alpha	S
KHAR	Oct 10	1047 E		1112 D	261	0.92	H-alpha	S
KHAR	Oct 12	1008 E		1018 D	115	0.93-1.20	H-alpha	S
KHAR	Oct 12	1035 E		1055 D	064-062	1.00-1.03	H-alpha	S
KHAR	Oct 12	1120 E		1200 D	064-066	1.00-1.03	H-alpha	S
LEAR	Oct 26	0041.0		0404.0			Meter	IV
PALE	Oct 26	2045.0		2052.0			Meter	II
SGMR	Oct 26	2049.0		2055.0			Meter	II
PALE	Oct 26	2052.0		2340.0			Meter	IV
SVTO	Oct 27	0539.0		1036.0			Meter	IV
LEAR	Oct 27	0540.0		0545.0			Meter	II
LEAR	Oct 27	0545.0		1014.0			Meter	IV
POTS	Oct 27	0627 E		1512 U			170- 40 MHz	IV
POTS	Oct 27	0947.0U		0951.0			800-600 MHz	IV?
POTS	Oct 27	1255.5		1311.0			170-100 MHz	IV
POTS	Oct 27	1255.8		1258.4			800-600 MHz	IV?
SVTO	Oct 30	0625.0		0635.0			Meter	II
POTS	Oct 30	0628 E		0820 U			170-100 MHz	II,IV
LEAR	Oct 30	0630.0		1016.0			Meter	IV
SVTO	Oct 30	0630.0		0643.0			Meter	IV

QUALIFIERS ON START, MAX AND END TIMES
- E = event began before the tabulated time
- U = uncertain time

TYPE OF EVENT
- A = eruptive active region prominence
- CB = coronal cloud bubble
- D = coronal depletions
- E = coronal enhancement
- EL = coronal expanding loop
- II = Type II radio burst
- IVm = moving Type IV radio burst
- Q = eruptive quiescent prominence
- R = coronal ray or streamer
- S = flare-surge if there is a known flare association
- SP = flare-spray if there is a known flare association
- * = movement may be caused by ionospheric refraction

REPORTING STATIONS
- KHAR = Kharkov
- LEAR = Learmonth
- PALE = Palehua
- POTS = Potsdam
- SGMR = Sagamore Hill
- SVTO = San Vito
- WROC = Wroclaw

ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 1991

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
01	SDF	0056E	0001D	S02	W35	09	28.5		10	0	0	E	LEAR		
01	AFS	0148E	0240D	S21	E17	10	2.4		03	9	9	E	PALE	6855	
01	AFS	0200E	0240D	S07	W12	09	30.2		02	9	9	E	PALE	6848	
01	AFS	0200E	0240D	S18	E15	10	2.2		03	9	9	E	PALE	6853	
01	SSB	0609		359	W75	09	24.8			0	0	E	SVTO		321 W37
01	BSL	0835E	0905D	N30	E90	10	8.4	1				C	ABST		
01	BSL	0835E	0905D	N70	E90	10	9.5	1				C	ABST		
01	ADF	0900E	0920	S07	E05	10	1.7	1				V	KHAR		
01	DSD	0940E	0952	S07	W06	09	30.9	1				V	KHAR		
01	DSD	0948	1002	S15	E04	10	1.7	1				V	KHAR		
01	DSD	1000	1005D	S13	E07	10	1.9	1				V	KHAR		
01	DSD	1057E	1613D	S13	E06	10	1.9		02	9	9	E	RAMY	6850	
01	AFS	1057E	1720D	S09	W04	10	1.1		02	9	9	E	RAMY	6850	
01	AFS	1057E	1720D	S11	W07	09	30.9		02	9	9	E	RAMY	6850	
01	AFS	1057E	1720D	S12	E02	10	1.6		03	9	9	E	RAMY	6850	
01	AFS	1104E	1720D	S19	E08	10	2.1		03	9	9	E	RAMY	6853	
01	AFS	1106E	1720D	N18	E27	10	3.5		03	9	9	E	RAMY	6855	
01	AFS	1125E	1720D	N07	E38	10	4.3		02	7	7	E	RAMY		
01	AFS	1130E	1720D	S27	E25	10	3.4		01	8	8	E	RAMY		
01	ADF	1132	1256D	S13	W15	09	30.3	2	08	9	9	E	RAMY	6850	
01	DSD	1135E	1720D	S07	W19	09	30.0		03	9	9	E	RAMY	6848	
01	ADF	1135E	1508D	S15	W05	10	1.1	2	09	9	9	E	SVTO	6850	
01	AFS	1143E	1720D	S09	W74	09	26.0		02	8	8	E	RAMY	6842	
01	SDF	1930E	0100D	N03	W44	09	28.6		11	0	0	E	PALE		
01	DSD	2013E	0218D	N18	E22	10	3.5		04	9	9	E	PALE	6855	
01	AFS	2015E	0218D	N24	E18	10	3.2		02	9	9	E	PALE	6855	
01	AFS	2015E	0218D	S03	E04	10	2.1		03	9	9	E	PALE	6850	
01	AFS	2015E	0218D	S07	W17	09	30.6		02	9	9	E	PALE	6848	
01	ADF	2015E	0218D	S12	W13	09	30.9	1	05	9	9	E	PALE	6850	
01	ADF	2015E	0218D	S16	E03	10	2.1	1	07	9	9	E	PALE	6858	
01	ADF	2015E	0218D	S23	E12	10	2.8	1	03	9	9	E	PALE	6853	
01	AFS	2320E	0955D	N17	E20	10	3.5		02	9	9	E	LEAR	6855	
01	ADF	2321E	0955D	S12	W03	10	1.7	1	05	9	9	E	LEAR	6850	
01	ADF	2322E	0955D	S17	W03	10	1.7	1	08	9	9	E	LEAR	6853	
01	ADF	2323E	0955D	N20	E24	10	3.8	1	06	9	9	E	LEAR	6855	
02	SSB	0103		320	W46	09	28.6			0	0	E	PALE		340 W66 281 W07
02	SSB	0951		320	W50	09	28.7			0	0	E	SVTO		
02	ADF	1011E	1554D	S17	W06	10	2.0	1	05	9	9	E	SVTO	6853	
02	DSD	1110E	1306	N17	E21	10	4.1		22	9	9	E	SVTO	6855	Flare Associated
02	DSD	1407E	1459D	S13	W22	09	30.9		04	9	9	E	SVTO	6850	Flare Associated
02	AFS	1442E	0040D	S13	W10	10	1.8		03	9	9	E	HOLL	6850	
02	DSD	1451E	0040D	N16	E19	10	4.0		08	9	9	E	HOLL	6855	Flare Associated
02	AFS	1452E	1827D	S13	W10	10	1.9		04	9	9	E	RAMY	6850	
02	DSD	1458E	1827D	N16	E17	10	3.9		06	9	9	E	RAMY	6855	
02	ADF	1507E	1827D	N08	E36	10	5.3	2	04	9	9	E	RAMY	6861	
02	AFS	1530E	0040D	N09	E38	10	5.5		03	9	9	E	HOLL	6861	
02	ADF	1930E	0040D	S16	W08	10	2.2	1	11	9	9	E	HOLL	6853	
02	SDF	1930E	0100D	N03	W44	09	29.6		11	0	0	E	PALE		
02	AFS	1931E	0040D	S19	W09	10	2.1		05	9	9	E	HOLL	6853	
02	AFS	1933E	0040D	S26	E09	10	3.5		02	9	9	E	HOLL	6860	
02	SSB	1935		323	W59	09	28.4			0	0	E	HOLL		
02	APR	2106E	0040D	N02	W90	09	26.2	1		9	9	E	HOLL	6857	
02	APR	2320E	0300D	N23	E90	10	9.9	1				C	VORO		
02	APR	2320E	0300D	N26	E90	10	10.0	1				C	VORO		
02	APR	2328E	0300D	N06	E90	10	9.7	1				C	VORO		
02	APR	2335	0300D	N14	W90	09	26.3	1				C	VORO		
03	ADF	0004E	0955D	S17	W17	10	1.7	1	08	9	9	E	LEAR	6850	
03	BSL	0004	0019	S17	W90	09	26.3	1				C	VORO		
03	DSD	0005E	0955D	S13	W25	10	1.1		03	9	9	E	LEAR	6850	
03	AFS	0045E	0955D	N08	E33	10	5.5		02	9	9	E	LEAR	6851	
03	AFS	0046E	0955D	N15	E16	10	4.2		03	9	9	E	LEAR	6855	
03	ASR	0047E	0955D	N07	W81	09	27.1			9	9	E	LEAR	6857	
03	DSD	0611E	0735D	N15	E10	10	4.0		04	9	9	E	LEAR	6855	
03	DSD	0619E	0740D	N16	E09	10	3.9		09	9	9	E	SVTO	6855	
03	AFS	0620E	1620D	N09	E30	10	5.5		03	9	9	E	SVTO	6861	
03	BSL	0728E	0904D	N10	E90	10	10.1	1				C	ABST		
03	AFS	1147E	1620D	S26	W01	10	3.4		02	9	9	E	SVTO	6860	
03	SSB	1251		281	W27	10	1.0			0	0	E	RAMY		

ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 1991

Day	Event Type	Start (UT)	End (UT)	Lat	CMP CMD	Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
03	AFS	1252E	1835D	S26	W01	10	3.4		02	9	9	E	RAMY	6860	
03	DSD	1449E	1622D	S21	W19	10	2.2		05	9	9	E	RAMY	6853	
03	DSD	1457E	1620D	S25	W17	10	2.3		05	9	9	E	SVTO	6853	
03	DSD	1512E	1620D	S13	W18	10	2.3		02	9	9	E	SVTO	6850	
03	DSD	1515E	1835D	S14	W19	10	2.2		03	9	9	E	RAMY	6850	
03	AFS	1639E	0039D	S27	W02	10	3.5		02	9	9	E	HOLL	6860	
03	AFS	1640E	0039D	N09	E25	10	5.6		03	9	9	E	HOLL	6861	
03	DSD	1802E	0012D	N09	E23	10	5.5		03	9	9	E	PALE	6861	
03	AFS	1802E	0012D	N12	E21	10	5.3		02	8	8	E	PALE	6961	
03	ADF	1802E	0012D	N13	W02	10	3.6		02	8	8	E	PALE	6855	
03	AFS	1802E	0012D	S05	W32	10	1.3		02	9	9	E	PALE	6850	
03	ADF	1802E	0012D	S16	W39	09	30.8	1	05	9	9	E	PALE	6850	
03	ADF	1802E	0012D	S17	W26	10	1.8	1	05	9	9	E	PALE	6853	
03	SSB	1835		314	W63	09	29.1			0	0	E	HOLL		
03	DSD	2045E	2144D	N08	E20	10	5.4		11	9	9	E	HOLL	6861	Flare Associated
03	AFS	2100E	0039D	S13	W25	10	2.0		04	9	9	E	HOLL	6850	
03	DSD	2101E	0039D	S12	W21	10	2.3		05	9	9	E	HOLL	6850	
03	AFS	2102E	0039D	S19	W21	10	2.3		03	9	9	E	HOLL	6853	
03	AFS	2103E	0039D	N17	W02	10	3.7		02	9	9	E	HOLL	6855	
03	AFS	2103E	0039D	N18	W08	10	3.3		01	9	9	E	HOLL	6855	
03	DSD	2105E	2354D	S16	E68	10	9.0		05	9	9	E	HOLL	6863	
03	AFS	2325E	1004D	S27	W06	10	3.5		02	9	9	E	LEAR	6860	
03	ADF	2325E	1004D	S27	W08	10	3.3	1	03	9	9	E	LEAR	6860	
03	DSD	2341E	0345D	S12	W23	10	2.2		04	9	9	E	LEAR	6850	
04	ADF	0554E	1606D	S17	W32	10	1.8	1	06	9	9	E	SVTO	6853	
04	SSB	1120		291	W49	09	30.0			0	0	E	RAMY		246 W04
04	AFS	1140E	2101D	S26	W14	10	3.4		03	9	9	E	RAMY	6860	
04	AFS	1142E	2101D	S13	W33	10	2.0		03	9	9	E	RAMY	6850	
04	DSD	1143E	1310	S12	W29	10	2.3		04	9	9	E	RAMY	6850	
04	AFS	1209E	2101D	N08	E13	10	5.5		03	9	9	E	RAMY	6861	
04	SSB	1330		310	W69	09	29.5			0	0	E	HOLL		
04	AFS	1332E	0038D	S14	W33	10	2.1		03	9	9	E	HOLL	6850	
04	SSB	1340		316	W76	09	28.9			0	0	E	RAMY		
04	DSD	1420E	0038D	N17	W08	10	4.0		03	9	9	E	HOLL	6855	
04	AFS	1420E	0038D	N17	W12	10	3.7		03	9	9	E	HOLL	6855	
04	AFS	1421E	0038D	S26	W15	10	3.4		03	9	9	E	HOLL	6860	
04	AFS	1422E	0038D	N08	E12	10	5.5		03	9	9	E	HOLL	6861	
04	AFS	1521E	2101D	N17	W12	10	3.7		01	8	8	E	RAMY	6855	
04	DSD	1534	2101D	S11	W33	10	2.2		04	9	9	E	RAMY	6850	
04	ADF	1635E	2101D	S12	W36	10	2.0	2	08	9	9	E	RAMY	6850	
04	AFS	1711E	0345D	N09	E16	10	5.9		04	9	9	E	PALE	6861	
04	AFS	1711E	0345D	N19	W04	10	4.4		03	9	9	E	PALE	6855	
04	DSD	1711E	0345D	S12	W31	10	2.4		02	9	9	E	PALE	6850	
04	AFS	1711E	0345D	S14	W35	10	2.1		03	9	9	E	PALE	6850	
04	AFS	1711E	0345D	S24	W06	10	4.2		02	9	9	E	PALE	6860	
04	DSD	2237E	0347D	S20	W43	10	1.6	1	07	9	9	E	LEAR	6853	
04	AFS	2239E	0347D	S23	W44	10	1.5		03	9	9	E	LEAR	6853	
04	AFS	2320E	0347D	S10	W49	10	1.3		04	9	9	E	LEAR	6850	
04	DSD	2320E	0347D	S13	W44	10	1.6	1	15	9	9	E	LEAR	6850	
04	APR	2339E	0300D	N23	W90	09	28.1	1				C	VORO		
04	APR	2340E	0209D	N11	E90	10	11.7	1				C	VORO		
04	ADF	2340E	0258D	N04	E65	10	9.8	1				C	VORO		
04	ADF	2343E	0345D	S17	W40	10	1.9		08	9	9	E	PALE	6850	
04	AFS	2358E	2359D	S04	E30	10	7.2		03	7	9	E	PALE		
05	AFS	0007E	0038D	S03	E26	10	6.9		02	9	9	E	HOLL		
05	AFS	0123E	0347D	N07	E05	10	5.4		04	9	9	E	LEAR	6861	
05	AFS	0124E	0347D	S27	W20	10	3.5		03	9	9	E	LEAR	6860	
05	AFS	0125E	0347D	S35	E25	10	7.0		03	9	9	E	LEAR		
05	SDF	0534E	1435D	S18	W20	10	3.7		10	0	0	E	SVTO		
05	AFS	0549E	1515D	S01	E18	10	6.6		01	9	9	E	SVTO	6859	
05	ADF	0549E	1608D	N07	E05	10	5.6	1	07	9	9	E	SVTO	6861	
05	AFS	0549E	1608D	S04	E24	10	7.0		02	9	9	E	SVTO		
05	AFS	0549E	1608D	S14	W42	10	2.1		03	9	9	E	SVTO	6850	
05	DSD	1333E	0030D	S13	W30	10	3.3		03	9	9	E	HOLL	6850	
05	SSB	1345		244	W17	10	4.2			0	0	E	HOLL		
05	SDF	1345E	1333D	S26	W05	10	5.2		09	0	0	E	HOLL		
05	DSD	1348E	2057D	S13	W50	10	1.8		04	9	9	E	RAMY	6850	
05	AFS	1418E	2057D	N17	W23	10	3.8		02	9	9	E	RAMY	6855	

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
05	DSD	1424E	2057D	S26	W27	10	3.5		03	9	9	E	RAMY	6860	
05	AFS	1430E	0037D	N08	W02	10	5.4		02	9	9	E	HOLL	6861	
05	AFS	1430E	0037D	N17	W24	10	3.8		02	9	9	E	HOLL	6855	
05	AFS	1430E	0037D	S04	E18	10	6.9		03	8	8	E	HOLL		
05	DSD	1430E	0037D	S10	W58	10	1.2		02	9	9	E	HOLL	6850	
05	AFS	1430E	0037D	S12	W48	10	2.0		02	9	9	E	HOLL	6850	
05	AFS	1430E	0037D	S17	E47	10	9.2		02	9	9	E	HOLL	6863	
05	AFS	1430E	0037D	S26	W27	10	3.5		02	9	9	E	HOLL	6860	
05	AFS	1430E	1739D	N10	E02	10	5.7		02	9	9	E	HOLL	6861	
05	DSD	1438E	1512D	S14	W46	10	2.1		05	9	9	E	SVTO	6850	Flare Associated
05	DSD	1440	1452	S12	W46	10	2.1		07	0	0	E	HOLL	6850	Flare Associated
05	SDF	1608E	0535D	N27	E64	10	10.6		16	0	0	E	SVTO		
05	AFS	1700E	0228D	S16	E48	10	9.3		02	9	9	E	PALE	6863	
05	AFS	1700E	0355D	N07	W04	10	5.4		02	9	9	E	PALE	6861	
05	DSD	1700E	0355D	N08	E00	10	5.7		03	9	9	E	PALE	6861	
05	AFS	1700E	0355D	N16	W25	10	3.8		03	9	9	E	PALE	6855	
05	AFS	1700E	0355D	S14	W51	10	1.8		03	9	9	E	PALE	6850	
05	ADF	1706E	0228D	S26	W28	10	3.5		06	9	9	E	PALE	6860	
05	AFS	1712E	2057D	N07	W06	10	5.3		02	9	9	E	RAMY	6861	
05	DSD	1724E	2057D	S18	E48	10	9.4		02	9	9	E	RAMY	6863	
05	DSD	2229E	0037D	N17	W25	10	4.0		03	9	9	E	HOLL	6855	
05	DSD	2258E	0355D	N16	W27	10	3.9		03	9	9	E	PALE	6855	
06	APR	0007E	0226D	N30	W90	09	29.0	1				C	VORO		
06	ADF	0009E	0226D	N04	E50	10	9.7	1				C	VORO		
06	ADF	0009E	0226D	N43	W35	10	3.1	1				C	VORO		
06	ADF	0128E	0355D	S09	W61	10	1.5		04	9	9	E	PALE	6850	Flare Associated
06	ADF	0223E	0955D	N06	W08	10	5.5	1	02	9	9	E	LEAR	6861	
06	ADF	0229E	0955D	S08	W65	10	1.2	1	04	9	9	E	LEAR	6848	
06	AFS	0235E	0955D	S05	E13	10	7.1		02	8	9	E	LEAR	6864	
06	AFS	0236E	0955D	S13	W53	10	2.1		05	9	9	E	LEAR	6850	
06	AFS	0241E	0955D	N17	W32	10	3.7		03	9	9	E	LEAR	6855	
06	ADF	0628E	1603D	N06	W09	10	5.6	1	07	9	9	E	SVTO	6861	
06	SDF	0632E	2306D	N06	E58	10	10.6		17	0	0	E	LEAR		
06	BSL	1035	1048	S02	E90	10	13.2	1				V	KHAR		
06	DSD	1038	1200	S23	W67	10	1.3	1				V	KHAR		
06	AFS	1223E	2136D	N16	W35	10	3.9		02	9	9	E	RAMY	6855	
06	SSB	1333		241	W26	10	4.4			0	0	E	HOLL		
06	AFS	1344E	0025D	S13	W60	10	2.0		02	9	9	E	HOLL	6850	
06	ADF	1347E	0025D	N07	W13	10	5.6	1	05	9	9	E	HOLL	6861	
06	AFS	1347E	0025D	N07	W16	10	5.4		02	9	9	E	HOLL	6861	
06	AFS	1446E	1734D	N12	E49	10	10.3		02	6	7	E	HOLL		
06	AFS	1502E	2136D	S14	E21	10	8.2		02	9	9	E	RAMY	6866	
06	ADF	1510E	2136D	N05	W14	10	5.6	2	05	9	9	E	RAMY	6861	
06	DSD	1525	1602	S08	W74	10	1.1		07	9	9	E	HOLL	6850	Flare Associated
06	DSD	1700E	0234D	S16	W70	10	1.4		03	9	9	E	PALE	6850	
06	DSD	1716E	1912D	N17	E11	10	7.5		03	9	9	E	RAMY		
06	AFS	1730E	0234D	N20	E13	10	7.7		02	9	9	E	PALE		
06	BSD	1932	0234D	S12	W70	10	1.5		08	9	9	E	PALE	6850	
06	SSB	1935		225	W14	10	5.7			0	0	E	PALE		278 W67
06	BSD	1938E	2246D	S11	W76	10	1.1		07	9	9	E	HOLL	6850	
06	AFS	2347E	0952D	N07	W21	10	5.4		02	9	9	E	LEAR	6861	
06	AFS	2348E	0952D	S15	E17	10	8.3		02	9	9	E	LEAR	6866	
06	AFS	2349E	0952D	N19	E09	10	7.7		01	9	9	E	LEAR		
07	APR	0004E	0030D	S26	E90	10	14.0	1		8	8	E	HOLL		
07	AFS	0023E	0952D	S34	W45	10	3.4		02	9	9	E	LEAR		
07	BSL	0109	0120	S13	W90	09	30.2	1				C	VORO		
07	BSL	0131	0145	S12	E90	10	13.8	1				C	VORO		
07	BSD	0610E	0812D	N08	W21	10	5.7		04	9	9	E	LEAR	6861	
07	ADF	0620E	1252D	N04	W26	10	5.3	1	07	9	9	E	SVTO	6861	Flare Associated
07	AFS	0621E	1252D	N06	W24	10	5.5		03	9	9	E	SVTO	6861	
07	AFS	0623E	1252D	N16	W49	10	3.5	1	05	9	9	E	SVTO	6855	
07	ASR	0625E	1252D	S16	W90	09	30.4			9	9	E	SVTO	6850	Flare Associated
07	BSL	0634E	0634D	S10	W90	09	30.5	1				C	ABST		
07	EPL	0655E	0930D	S09	W90	09	30.5			9	9	E	SVTO	6850	
07	SSB	0658		201	W00	10	7.3			0	0	E	SVTO		
07	ASR	1125E	1252D	N09	E90	10	14.2			9	9	E	SVTO		
07	AFS	1131E	1252D	N19	E02	10	7.6	2	03	9	9	E	SVTO		
07	ASR	1248E	2121D	S11	W90	09	30.8			9	9	E	RAMY	6850	

ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 1991

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
07	SSB	1330		227	W26	10	5.5			0	0	E	HOLL		
07	ASR	1330E	0030D	S12	W85	10	1.1			9	9	E	HOLL	6850	
07	SPY	1442	1453D	S09	W90	09	30.8			0	0	E	HOLL	6850	
07	DSD	1442E	0030D	N18	W51	10	3.7		03	9	9	E	HOLL	6855	
07	AFS	1442E	0030D	N19	E00	10	7.6		02	9	9	E	HOLL		
07	AFS	1442E	0030D	S32	W52	10	3.5		02	8	8	E	HOLL		
07	DSD	1442E	0030D	S33	W51	10	3.6		02	9	9	E	HOLL		
07	AFS	1442E	2121D	S14	E08	10	8.2		02	9	9	E	RAMY	6866	
07	DSD	1448E	2121D	N18	W01	10	7.5		02	9	9	E	RAMY	6867	
07	ASR	1520E	0030D	N07	E90	10	14.4			9	9	E	HOLL		
07	AFS	1825E	0141D	N16	W57	10	3.4		02	8	8	E	PALE	6855	
07	ADF	1825E	2218D	N08	W22	10	6.1	1	04	9	9	E	PALE	6861	
07	ADF	1825E	2220D	N20	W54	10	3.6	1	03	9	9	E	PALE	6855	
07	ADF	1825E	2220D	S18	W85	10	1.3	1	04	9	9	E	PALE	6853	
07	APR	1825E	2220D	S30	W90	09	30.7			9	9	E	PALE	6860	
07	SSB	2029		200	W02	10	7.7			0	0	E	PALE		214 W16
07	ASR	2035E	2121D	S06	E90	10	14.6			9	9	E	RAMY		
07	ASR	2105E	0030D	S22	E90	10	14.8			9	9	E	HOLL		
07	ASR	2200E	0141D	N07	E90	10	14.6			9	9	E	PALE		
07	AFS	2200E	0141D	N19	W02	10	7.8		03	9	9	E	PALE	6867	
07	DSD	2215E	0141D	N07	W31	10	5.6		03	9	9	E	PALE	6861	
07	ASR	2216E	0141D	S13	W90	10	1.1			9	9	E	PALE	6850	
07	DSD	2248E	0030D	N08	W33	10	5.5		04	9	9	E	HOLL	6861	Flare Associated
07	ASR	2335E	0943D	S18	W90	10	1.1			9	9	E	LEAR	6853	
07	AFS	2336E	0943D	N06	W31	10	5.7		02	9	9	E	LEAR	6861	
07	ASR	2337E	0943D	S13	W90	10	1.2			9	9	E	LEAR	6850	
07	AFS	2338E	0943D	N16	W54	10	3.9		02	9	9	E	LEAR	6855	
07	AFS	2339E	0943D	N20	W04	10	7.7		02	9	9	E	LEAR	6867	
07	AFS	2340E	0943D	S13	E79	10	13.9		02	9	9	E	LEAR		
08	APR	0004E	0030D	S26	E90	10	15.0	1		8	8	E	HOLL		
08	BSL	0611E	0738D	S79	E90	10	16.6	1				C	ABST		
08	AFS	0835E	1550D	N06	W37	10	5.6		03	9	9	E	SVTO	6861	
08	SSB	0840		193	W02	10	8.2			0	0	E	SVTO		
08	ASR	0900E	1550D	S16	W90	10	1.5			9	9	E	SVTO	6850	
08	ASR	0903E	1550D	S25	W90	10	1.4			9	9	E	SVTO	6853	
08	AFS	0910E	1550D	N10	W38	10	5.5	1	03	9	9	E	SVTO	6867	
08	BSL	0915E	1142	S11	W90	10	1.6	1				V	KHAR		
08	DSD	0920E	0935	N07	W42	10	5.2	1				V	KHAR		
08	ASR	0920E	1550D	S25	E87	10	15.1			9	9	E	SVTO		
08	DSD	1058E	1848D	N08	W37	10	5.7		03	9	9	E	RAMY	6861	
08	ASR	1106E	1839D	S18	W90	10	1.6			9	9	E	RAMY	6853	
08	ASR	1106E	2140D	S12	W90	10	1.7			9	9	E	RAMY	6850	
08	APR	1110E	2140D	S18	E90	10	15.3	2		9	9	E	RAMY	6873	
08	ADF	1113E	2140D	N10	E27	10	10.5	1	04	9	9	E	RAMY	6870	
08	ASR	1121E	1958D	N17	E90	10	15.3			9	9	E	RAMY		
08	DSD	1133E	1150D	N19	E39	10	11.4	1				V	KHAR		
08	AFS	1137E	1842D	S15	W04	10	8.2		01	7	7	E	RAMY	6866	
08	AFS	1240E	1550D	S09	E19	10	9.9		02	9	9	E	SVTO		
08	ASR	1405E	0034D	S12	W90	10	1.8			9	9	E	HOLL	6850	
08	ASR	1405E	2223D	S22	W90	10	1.7			9	9	E	HOLL	6853	
08	ADF	1505E	0034D	N18	W75	10	2.9	1	11	9	9	E	HOLL	6855	
08	APR	1655E	2224D	S24	E90	10	15.6	1		8	8	E	HOLL		
08	SSB	1955		194	W09	10	8.0			0	0	E	HOLL		
08	AFS	2338E	0952D	N06	W45	10	5.6		04	9	9	E	LEAR	6861	
08	DSD	2339E	0952D	N11	E19	10	10.4		03	9	9	E	LEAR	6870	
08	DSD	2339E	0952D	N17	W22	10	7.3		03	9	9	E	LEAR	6867	
08	AFS	2340E	0952D	S09	E13	10	10.0		03	9	9	E	LEAR	6869	
09	ASR	0421E	0503D	S27	E87	10	16.0			6	6	E	LEAR	6873	
09	BSL	0652E	0825D	S30	E90	10	16.4	1				C	ABST		
09	SDF	0720E	0654D	N00	W15	10	8.2		08	0	0	E	SVTO		
09	ASR	0745E	1548D	S14	W90	10	2.5			9	9	E	SVTO	6850	
09	AFS	0746E	1548D	N18	W25	10	7.4	1	02	9	9	E	SVTO	6867	
09	AFS	0747E	1548D	N13	E14	10	10.4	1	02	9	9	E	SVTO	6870	
09	AFS	0748E	1548D	S09	E09	10	10.0		03	9	9	E	SVTO	6869	
09	AFS	0749E	1548D	S17	E04	10	9.6	1	03	9	9	E	SVTO	6863	
09	SSB	0750		212	W34	10	6.8			0	0	E	SVTO		200 W22
09	APR	0852E	0919D	S29	W90	10	2.3	1				V	KHAR		
09	BSL	0925E	0937	S24	W90	10	2.4	1				V	KHAR		

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
09	SDF	0929E	0056D	S02	E12	10	10.3		06	0	0	E	LEAR		
09	APR	1020E	1200D	S29	W90	10	2.4	2				V	KHAR		
09	ADF	1135	1200D	S30	E68	10	14.8	1				V	KHAR		
09	APR	1410E	2239D	S20	E90	10	16.5	1		9	9	E	HOLL		
09	ADF	1602E	2055D	N05	W53	10	5.7	1	06	9	9	E	RAMY	6861	
09	DSD	1745E	2240D	S14	W51	10	5.9		03	9	9	E	HOLL		
09	AFS	1746E	2332D	N18	W30	10	7.4		03	9	9	E	HOLL	6867	
09	AFS	1747E	2332D	N12	E07	10	10.3		02	9	9	E	HOLL	6870	
09	SSB	1748		220	W47	10	6.1			0	0	E	HOLL		
09	ADF	1753E	0321D	N01	W63	10	5.0	1	04	9	9	E	PALE	6861	
09	AFS	1753E	0321D	N16	W35	10	7.1		03	9	9	E	PALE	6867	
09	DSD	1753E	0321D	N18	W28	10	7.6		03	9	9	E	PALE	6867	
09	DSD	1753E	0321D	S17	W55	10	5.6		04	9	9	E	PALE		
09	APR	1753E	0321D	S20	E90	10	16.6			9	9	E	PALE		
09	AFS	1803E	0321D	S19	W04	10	9.4		03	8	9	E	PALE	6863	
09	DSD	1857E	2244D	N18	W75	10	4.1		07	9	9	E	HOLL	6855	
09	ADF	2000E	2332D	S11	E55	10	14.0	1	05	9	9	E	HOLL	6871	
09	BSD	2127E	2246D	S25	E69	10	15.2		09	9	9	E	HOLL	6873	Flare Associated
09	AFS	2322E	0947D	N08	W56	10	5.8		04	9	9	E	LEAR	6861	
09	AFS	2322E	0953D	S25	E63	10	14.8		05	9	9	E	LEAR	6873	
09	AFS	2323E	0947D	S18	W09	10	9.3		02	9	9	E	LEAR	6863	
09	AFS	2324E	0947D	N12	E04	10	10.3		03	9	9	E	LEAR	6870	
09	AFS	2325E	0947D	N19	W31	10	7.6		04	9	9	E	LEAR	6867	
09	AFS	2325E	0947D	S11	W03	10	9.8		04	9	9	E	LEAR	6869	
10	SDF	0005E	0750D	S05	E00	10	10.0		18	0	0	E	LEAR		
10	ADF	0014E	0359D	S00	W28	10	7.9					C	VORO		
10	APR	0020E	0400D	S05	E90	10	16.7	1				C	VORO		
10	DSD	0450E	0947D	N17	W80	10	4.1		03	9	9	E	LEAR	6855	
10	BSL	0457	0520	S28	E69	10	15.6			9	9	E	LEAR	6873	Flare Associated
10	BSL	0539E	0555D	S21	E66	10	15.3			9	9	E	SVTO	6873	
10	AFS	0557E	1556D	N05	W63	10	5.5	2	02	9	9	E	SVTO	6861	
10	ASR	0557E	1556D	N14	W85	10	3.8			9	9	E	SVTO	6855	
10	AFS	0557E	1556D	N15	W40	10	7.2	1	02	9	9	E	SVTO	6867	
10	APR	0557E	1556D	S03	E85	10	16.6	1		9	9	E	SVTO		
10	AFS	0557E	1556D	S17	W58	10	5.8	2	03	9	9	E	SVTO	6876	
10	DSD	0606E	1556D	S17	W13	10	9.3		04	9	9	E	SVTO	6863	Flare Associated
10	AFS	0620E	1556D	S10	W05	10	9.9	2	04	9	9	E	SVTO	6869	
10	ASR	0638E	0658	S17	W90	10	3.4			9	9	E	SVTO	6850	
10	DSD	0648E	1556D	S22	E63	10	15.1		10	9	9	E	SVTO	6873	
10	DSD	0650E	0947D	S28	E66	10	15.4		10	9	9	E	LEAR	6873	
10	SSB	0659		213	W48	10	6.7			0	0	E	SVTO		202 W37
10	ASR	0700E	1556D	S15	E90	10	17.1			9	9	E	SVTO		
10	BSL	1005	1020	N19	W90	10	3.5	1				V	KHAR		
10	DSD	1030E	1033D	S06	W67	10	5.4	1				V	KHAR		
10	BSL	1030E	1038	S05	W90	10	3.7	1				V	KHAR		
10	DSD	1047	1112	S06	W67	10	5.4	1				V	KHAR		
10	SSB	1137		221	W57	10	6.1			0	0	E	RAMY		
10	AFS	1152E	2147D	N18	W42	10	7.3		02	9	9	E	RAMY	6867	
10	ADF	1157E	1534D	S20	W48	10	6.8	2	04	9	9	E	RAMY	6873	
10	ASR	1207E	2147D	N16	W90	10	3.7			9	9	E	RAMY	6855	
10	AFS	1315E	2147D	S13	W44	10	7.2		02	9	9	E	RAMY	6871	
10	BSL	1403E	1458D	S13	W90	10	3.8			9	9	E	HOLL		
10	BSL	1405E	1649D	S17	W90	10	3.7			9	9	E	RAMY		
10	BSL	1405E	1540D	S18	W90	10	3.7			9	9	E	SVTO		
10	AFS	1434E	1900D	N12	W04	10	10.3		02	9	9	E	HOLL	6870	
10	ASR	1435E	2332D	N18	W90	10	3.7			9	9	E	HOLL	6855	
10	AFS	1436E	2332D	S11	E43	10	13.8		02	9	9	E	HOLL	6871	
10	AFS	1437E	2026D	S14	W63	10	5.8		02	9	9	E	RAMY	6876	
10	ADF	1445E	2332D	S27	E48	10	14.3	1	10	9	9	E	HOLL	6873	
10	ADF	1446E	1900D	N18	W39	10	7.6	1	04	9	9	E	HOLL	6867	
10	BSD	1540	2017D	S28	E61	10	15.4		03	9	9	E	RAMY	6873	
10	SDF	1556E	0634D	N23	E06	10	11.1		06	0	0	E	SVTO		
10	SDF	1556E	0634D	S27	E08	10	11.3		08	0	0	E	SVTO		
10	SSB	1640		197	W37	10	7.2			0	0	E	HOLL		
10	DSD	1655E	0349D	N07	W48	10	7.1		04	9	9	E	PALE	6861	
10	ADF	1753E	0321D	N01	W63	10	6.0	1	04	9	9	E	PALE	6861	
10	AFS	1753E	0321D	N16	W35	10	8.1		03	9	9	E	PALE	6868	
10	DSD	1753E	0321D	N18	W28	10	8.6		03	9	9	E	PALE	6867	
10	DSD	1753E	0321D	S17	W55	10	6.6		04	9	9	E	PALE		

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
10	APR	1753E	0321D	S20	E90	10	17.6			9	9	E	PALE		
10	AFS	1753E	0349D	S17	W18	10	9.4		03	6	5	E	PALE	6863	
10	AFS	1803E	0321D	S19	W04	10	10.4		03	8	9	E	PALE	6863	
10	AFS	1804E	0349D	S10	E41	10	13.8		02	9	9	E	PALE	6871	
10	AFS	2030E	2147D	S18	W20	10	9.3		02	9	9	E	RAMY	6863	
10	ADF	2321E	0319D	S02	W43	10	7.8	1				C	VORO		
10	APR	2329E	0321D	N43	W90	10	3.6	1				C	VORO		
10	ADF	2330E	0908D	N06	W66	10	6.0	1	03	9	9	E	LEAR	6861	
11	AFS	0300E	0349D	S25	E44	10	14.5		02	9	9	E	PALE	6873	
11	ADF	0330E	0349D	N07	W76	10	5.4	1	03	9	9	E	PALE	6861	
11	ADF	0330E	0349D	N09	E45	10	14.5	1	02	9	9	E	PALE	6872	
11	ADF	0330E	0349D	S21	E44	10	14.5	1	03	9	9	E	PALE	6873	
11	ASR	0540E	0601	N04	W81	10	5.2			9	9	E	SVTO	6861	
11	DSD	0545E	0610D	N06	W72	10	5.8		08	8	9	E	LEAR	6861	
11	SSB	0634		195	W43	10	7.2			0	0	E	SVTO		
11	BSL	0743E	0755D	N02	W81	10	5.3			9	8	E	SVTO	6861	
11	DSD	0745E	0759D	N73	W08	10	10.6		14	9	7	E	LEAR	6861	
11	ASR	0755E	0847D	N02	W81	10	5.3			9	9	E	SVTO	6861	
11	ASR	1111E	1133D	N04	W88	10	4.9			9	9	E	SVTO	6861	
11	SSB	1119		225	W75	10	5.7			0	0	E	RAMY		201 W51
11	ASR	1120E	1135	N07	W79	10	5.5			9	9	E	RAMY	6861	
11	SSB	1339		193	W44	10	7.4			0	0	E	HOLL		
11	ADF	1415E	0028D	S21	E36	10	14.3	1	13	9	9	E	HOLL	6873	
11	ADF	1416E	0028D	S27	E38	10	14.5	1	05	9	9	E	HOLL	6873	
11	AFS	1417E	0028D	S24	E36	10	14.4		03	9	9	E	HOLL	6873	
11	ADF	1446E	0028D	N23	W63	10	6.8	1	12	9	9	E	HOLL	6867	
11	AFS	1450E	0028D	N18	E49	10	15.3		02	9	9	E	HOLL	6875	
11	AFS	1451E	0028D	N06	E37	10	14.4		02	9	9	E	HOLL	6872	
11	SDF	1516E	0613D	N26	W16	10	10.4		05	0	0	E	SVTO		
11	AFS	1650E	0400D	N07	E36	10	14.4		04	9	9	E	PALE	6872	
11	DSD	1650E	0400D	S11	E28	10	13.8		03	9	9	E	PALE	6871	
11	DSD	1650E	1910D	S24	E36	10	14.5		08	9	9	E	PALE	6873	
11	AFS	1656E	0400D	S22	E34	10	14.3		03	9	9	E	PALE	6873	
11	SSB	1906		212	W67	10	6.7			0	0	E	PALE		199 W54
11	AFS	1910E	0400D	S20	E74	10	17.4		02	9	9	E	PALE	6878	
11	ASR	1915E	0400D	N05	W87	10	5.3			9	9	E	PALE	6861	
11	ADF	1915E	0400D	S11	E26	10	13.7		06	9	9	E	PALE	6871	
11	ADF	1915E	0400D	S18	E31	10	14.2		07	9	9	E	PALE	6873	
11	AFS	2346E	0944D	N05	E32	10	14.4		03	9	9	E	LEAR	6872	
11	ADF	2346E	0944D	N06	E39	10	14.9	1	04	9	9	E	LEAR	6782	
11	ADF	2347E	0944D	S22	E29	10	14.2	1	06	9	9	E	LEAR	6873	
12	ASR	0458	0619D	N07	W90	10	5.5			9	9	E	LEAR	6861	Flare Associated
12	AFS	0625E	1039D	S23	E28	10	14.4	1	03	9	9	E	SVTO	6873	
12	SSB	0630		199	W60	10	6.7			0	0	E	SVTO		130 W00
12	ADF	0635E	1039D	N16	E39	10	15.2	2	05	9	9	E	SVTO	6875	
12	BSL	0732E	0807D	S25	E90	10	19.3	1				C	ABST		
12	SDF	0809E	0030D	S09	E68	10	17.4		11	0	0	E	LEAR		
12	APR	0920E	0950	S06	W90	10	5.6	1				V	KHAR		
12	ADF	0955	1012	S10	E69	10	17.6	1				V	KHAR		
12	BSL	1008	1018	S25	E90	10	19.4	1				V	KHAR		
12	DSD	1008	1025	S21	E70	10	17.8	1				V	KHAR		
12	BSL	1035	1035	N26	E90	10	19.4	1				V	KHAR		
12	SDF	1039E	0851D	N26	W44	10	9.0		11	0	0	E	SVTO		
12	BSL	1120E	1200D	N26	E90	10	19.5	1				V	KHAR		
12	SSB	1339		198	W62	10	6.8			0	0	E	HOLL		
12	SDF	1339E	1337D	N23	E00	10	12.6		07	0	0	E	HOLL		
12	SDF	1339E	1337D	N26	W32	10	10.1		12	0	0	E	HOLL		
12	SDF	1339E	1337D	S09	E70	10	17.8		12	0	0	E	HOLL		
12	DSD	1344E	2142D	N06	E21	10	14.1		02	9	9	E	HOLL	6872	
12	AFS	1344E	2350D	N06	E24	10	14.4		03	9	9	E	HOLL	6872	
12	DSD	1515E	2140D	S23	E62	10	17.4		02	9	9	E	HOLL	6878	
12	DSD	1515E	2142D	S09	W40	10	9.6		02	9	9	E	HOLL	6869	
12	ASR	1515E	2350D	N06	W90	10	5.9			9	9	E	HOLL	6861	
12	AFS	1650E	0354D	S20	E60	10	17.3		03	9	9	E	PALE	6878	
12	AFS	1650E	0354D	S24	E22	10	14.4		03	9	9	E	PALE	6873	
12	AFS	1657E	0354D	N07	E22	10	14.3		03	9	9	E	PALE	6872	
12	ASR	1657E	0354D	N24	E90	10	19.6			9	9	E	PALE		
12	ADF	1657E	0354D	S11	E14	10	13.7		07	9	9	E	PALE	6871	

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
12	EPL	1806E	2137D	S23	E90	10	19.7			9	9	E	HOLL		
12	EPL	1807E	1917D	S22	E90	10	19.7			9	9	E	PALE		
12	SSB	2118		209	W78	10	7.0			0	0	E	PALE		131 W00
12	ASR	2130E	2350D	N23	E90	10	19.8			9	9	E	HOLL		
12	ADF	2347E	0956D	S12	E08	10	13.6	1	06	9	9	E	LEAR	6871	
13	SSB	0042		185	W56	10	7.8			0	0	E	LEAR		
13	AFS	0120E	0956D	S19	W54	10	8.9		03	9	9	E	LEAR	6878	
13	ASR	0121E	0956D	N20	E90	10	19.9			9	9	E	LEAR		
13	BSL	0225'	0247	N22	E90	10	20.0	1				C	VORO		
13	AFS	0603E	0956D	N16	E24	10	15.1		02	9	9	E	LEAR	6875	
13	BSL	0657	0725	N20	E90	10	20.2	1				C	ABST		
13	ADF	0720E	0956D	S23	E20	10	14.8	1	05	9	9	E	LEAR	6873	
13	ADF	0722E	0956D	S10	E33	10	15.8	1	05	9	9	E	LEAR		
13	SDF	0809E	0030D	S09	E68	10	18.4		11	0	0	E	LEAR		
13	SSB	0851		130	W05	10	13.0			0	0	E	SVTO		417 W00
13	SDF	0900E	2300D	S35	W05	10	13.0		10	0	0	E	LEAR		
13	AFS	0918E	1220D	N18	E21	10	15.0		02	9	9	E	SVTO	6875	
13	SSB	1337		126	W04	10	13.2			0	0	E	HOLL		
13	ADF	1342E	2348D	S12	E02	10	13.7	1	09	9	9	E	HOLL	6871	
13	ASR	1435E	1725D	N21	E85	10	20.1			9	9	E	HOLL		
13	ADF	2135E	0235D	S13	E01	10	14.0	1	03	9	9	E	PALE	6871	
13	DSD	2135E	0235D	S20	E41	10	17.0		02	9	9	E	PALE	6878	
13	ADF	2135E	0235D	S26	E08	10	14.5	1	03	9	9	E	PALE	6873	
13	DSD	2135E	0235D	S35	E01	10	14.0		03	9	9	E	PALE		
13	AFS	2210E	0235D	N18	E15	10	15.1		03	8	8	E	PALE	6875	
13	AFS	2210E	0235D	S36	W02	10	13.8		02	9	9	E	PALE		
13	SSB	2217		133	W16	10	12.6			0	0	E	PALE		184 W67
13	AFS	2305E	0235D	N22	E83	10	20.3		03	9	9	E	PALE	6879	
13	SSB	2338		137	W20	10	12.4			0	0	E	LEAR		
13	AFS	2339E	1001D	S21	E40	10	17.0		02	9	9	E	LEAR	6878	
13	AFS	2340E	1001D	S36	W03	10	13.7		02	9	9	E	LEAR	6880	
13	ADF	2341E	1001D	N20	E14	10	15.0	1	06	9	9	E	LEAR	6875	
14	ASR	0020E	0103D	N21	E88	10	20.8			9	9	E	PALE	6879	
14	DSD	1236	2020D	N22	E70	10	19.9		05	9	9	E	RAMY	6879	Flare Associated
14	AFS	1415E	0024D	S24	E37	10	17.4		02	9	9	E	HOLL	6878	
14	DSD	1415E	1846D	S19	E30	10	16.9		03	9	9	E	HOLL	6878	
14	AFS	1430E	0024D	S25	E02	10	14.7		02	8	8	E	HOLL	6873	
14	DSD	1453E	0024D	N21	E72	10	20.1		15	9	9	E	HOLL	6879	Flare Associated
14	ADF	1725E	2020D	S24	E35	10	17.4	2	05	9	9	E	RAMY	6878	
14	DSD	1740E	1834D	S27	E37	10	17.6		07	9	9	E	HOLL	6878	Flare Associated
14	AFS	1837E	2020D	S36	W14	10	13.6		02	7	7	E	RAMY	6880	
14	ADF	1941E	0024D	S18	W03	10	14.6	1	08	9	9	E	HOLL	6873	
14	DSD	1945E	0024D	N08	W08	10	14.2		02	9	9	E	HOLL	6872	
14	ADF	2020E	0024D	S16	W07	10	14.3	1	19	9	9	E	HOLL	6871	
14	SSB	2023		128	W23	10	13.0			0	0	E	PALE		
14	DSD	2230E	0103D	N23	E67	10	20.1		04	9	9	E	PALE	6879	
14	AFS	2230E	0103D	S24	W06	10	14.5		03	9	9	E	PALE	6873	
14	DSD	2233E	0103D	S18	E25	10	16.8		02	9	9	E	PALE	6878	
14	AFS	2233E	0103D	S20	E31	10	17.3		03	9	9	E	PALE	6878	
14	ADF	2239E	0103D	S10	W24	10	13.1		14	8	8	E	PALE	6871	
14	ADF	2313E	0945D	S12	W15	10	13.8	1	05	9	9	E	LEAR	6871	
14	DSD	2314E	0945D	S25	W07	10	14.4		03	9	9	E	LEAR	6873	
14	ADF	2352E	0358D	N07	W08	10	14.4	1				C	VORO		
14	APR	2352E	0400D	S06	W90	10	8.2	1				C	VORO		
15	AFS	0630E	0945D	N20	E62	10	20.0		03	7	4	E	LEAR	6879	
15	SSB	0638		423	W00	10	15.3			0	0	E	SVTO		
15	AFS	0650E	1431D	N25	E61	10	20.0		03	9	8	E	SVTO	6879	
15	AFS	0650E	1431D	S20	E28	10	17.4		03	9	9	E	SVTO	6878	
15	ADF	0757E	1431D	N07	W15	10	14.2	1	06	9	9	E	SVTO	6872	
15	SDF	0846E	2331D	N12	W30	10	13.1		09	0	0	E	LEAR		
15	SDF	0846E	2331D	S08	E21	10	16.9		07	0	0	E	LEAR		
15	ADF	0850E	0945D	N20	E62	10	20.1	2	12	9	8	E	LEAR	6879	
15	AFS	1107E	1833D	N21	E59	10	20.0		03	9	9	E	RAMY	6879	
15	DSD	1111E	1829D	S23	E11	10	16.3		03	9	9	E	RAMY	6873	
15	DSD	1113E	1703	S38	W21	10	13.8		02	9	9	E	RAMY	6880	
15	AFS	1422E	1835D	S03	E15	10	16.7		03	9	9	E	RAMY		
15	SDF	1428E	1331D	N24	W40	10	12.5		14	0	0	E	HOLL		

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
15	SDF	1431E	0841D	N16	W41	10	12.5		08	0	0	E	SVTO		
15	SDF	1431E	0841D	S06	E21	10	17.2		07	0	0	E	SVTO		
15	SSB	1434		144	W49	10	11.5			0	0	E	HOLL		
15	AFS	1443E	0023D	N22	E57	10	20.0		03	9	9	E	HOLL	6879	
15	DSD	1455E	2203D	S24	E24	10	17.5		02	9	9	E	HOLL	6878	Flare Associated
15	AFS	1503E	0023D	S03	E15	10	16.7		02	9	9	E	HOLL		
15	AFS	1504E	0023D	S24	E24	10	17.5		02	9	9	E	HOLL	6878	
15	AFS	1625E	1926D	S22	W18	10	14.3		02	9	9	E	RAMY	6873	
15	ADF	1626E	1926D	S24	W17	10	14.4	2	03	9	9	E	RAMY	6873	Flare Associated
15	DSD	1718	1829D	S26	W17	10	14.4		02	9	9	E	RAMY	6873	
15	ASR	1920E	0023D	S11	W90	10	9.0			9	9	E	HOLL	6869	
15	DSD	1921E	0023D	S23	W15	10	14.6		04	9	9	E	HOLL	6873	
15	AFS	2306E	0959D	S21	W18	10	14.6		02	9	9	E	LEAR	6873	
15	AFS	2307E	0959D	S04	E11	10	16.8		03	9	9	E	LEAR	6881	
15	BSD	2308E	0023D	N23	E57	10	20.3		05	9	9	E	HOLL	6879	
15	AFS	2308E	0959D	N18	W04	10	15.6		02	9	9	E	LEAR	6875	
15	AFS	2308E	0959D	S24	E19	10	17.4		02	9	9	E	LEAR	6878	
16	AFS	0509E	0959D	N22	E48	10	19.9		03	9	9	E	LEAR	6879	
16	AFS	0841E	1531D	N23	E45	10	19.8		02	9	9	E	SVTO	6879	
16	AFS	0841E	1531D	S03	E04	10	16.7		02	9	9	E	SVTO	6881	
16	AFS	1122E	2007D	S03	E04	10	16.8		02	6	6	E	RAMY	6881	
16	AFS	1137E	2015D	N22	E48	10	20.2		03	9	9	E	RAMY	6879	
16	DSD	1208E	1710D	S22	W28	10	14.3		03	9	9	E	RAMY	6873	
16	ADF	1208E	2015D	S25	W25	10	14.6	2	04	9	9	E	RAMY	6873	
16	SSB	1331		141	W57	10	11.9			0	0	E	HOLL		
16	AFS	1342E	0022D	N23	E45	10	20.0		02	9	9	E	HOLL	6879	
16	ASR	1416E	2220D	S18	W90	10	9.7			9	9	E	HOLL		
16	ASR	1419E	0022D	S07	E90	10	23.3			9	9	E	HOLL		
16	ASR	1419E	0022D	S22	E90	10	23.5			9	9	E	HOLL		
16	ASR	1421E	1710D	S16	W90	10	9.8			9	9	E	RAMY		
16	ADF	1440E	2007D	S25	E33	10	19.2	1	20	9	9	E	RAMY		
16	ADF	1510E	0022D	N20	E31	10	19.0	2	15	9	9	E	HOLL		
16	DSD	1510E	0022D	S26	W29	10	14.4		02	9	9	E	HOLL	6873	
16	SDF	1531E	0620D	N21	E32	10	19.1		14	0	0	E	SVTO		
16	DSD	2305E	1005D	S24	W30	10	14.6		04	9	9	E	LEAR	6873	
16	AFS	2306E	1005D	N21	E42	10	20.2		02	9	9	E	LEAR	6879	
16	AFS	2307E	1005D	S04	W04	10	16.7		02	9	9	E	LEAR	6881	
17	SSB	1104		122	W56	10	13.1			0	0	E	RAMY		449 W18
17	ADF	1109E	1138	N18	E37	10	20.3	2	05	9	9	E	RAMY	6879	
17	DSD	1525E	0021D	S23	W42	10	14.4		03	9	9	E	HOLL	6873	
17	DSD	1529	1544	N03	W47	10	14.1		07	9	9	E	RAMY	6872	Flare Associated
17	ASR	1556E	1902D	S10	W88	10	11.0			9	9	E	RAMY		
17	SSB	1705		450	W23	10	15.8			0	0	E	HOLL		
17	ASR	1705E	0021D	S09	W90	10	10.9			9	9	E	HOLL		
17	DSD	1740E	1902D	S25	W44	10	14.3		02	9	9	E	RAMY	6873	
17	AFS	1804E	1902D	S07	W16	10	16.5		02	9	9	E	RAMY	6881	
17	SSB	1935		441	W15	10	16.6			0	0	E	PALE		107 W41 140 W74
17	ASR	1935E	2001D	S09	W90	10	11.1			9	9	E	PALE		
17	AFS	2332E	1005D	N21	E27	10	20.0		02	9	9	E	LEAR	6879	
17	AFS	2333E	1005D	S04	W16	10	16.8		02	9	9	E	LEAR	6881	
17	AFS	2334E	1005D	S10	E70	10	23.2		01	9	9	E	LEAR		
17	AFS	2354E	0021D	S04	W17	10	16.7		02	9	9	E	HOLL	6881	
18	AFS	0640E	1427D	N25	E23	10	20.0		02	6	9	E	SVTO	6879	
18	AFS	0642E	1427D	S04	W20	10	16.8		03	6	5	E	SVTO	6881	
18	APR	0653E	0653D	N25	E90	10	25.2	1				C	ABST		
18	SSB	0725		424	W04	10	18.0			0	0	E	SVTO		
18	AFS	0940E	1427D	N14	W44	10	15.1		02	8	9	E	SVTO	6875	
18	AFS	1138E	1807D	N21	E27	10	20.5		02	8	8	E	RAMY	6879	
18	ADF	1138E	1807D	N21	W52	10	14.5	1	04	9	9	E	RAMY	6873	
18	DSD	1220E	1505D	S08	W25	10	16.6		01	9	9	E	RAMY	6881	
18	AFS	1232E	1750D	S26	W14	10	17.4		02	5	5	E	RAMY	6878	
18	SSB	1340		424	W08	10	17.9			0	0	E	HOLL		
18	SSB	1404		423	W07	10	18.0			0	0	E	RAMY		143 W82
18	AFS	1418E	1748D	S04	W25	10	16.7		02	9	9	E	HOLL	6881	
18	AFS	1456E	0020D	N16	W47	10	15.0		02	9	9	E	HOLL	6875	
18	ASR	1510E	1510D	N29	E90	10	25.7	2		9	9	E	HOLL		
18	AFS	1708E	2035D	N23	E17	10	20.0		03	9	9	E	PALE	6879	

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
18	ADF	1708E	2229D	N13	W45	10	15.3	1	07	9	9	E	PALE	6875	
18	AFS	1708E	2229D	N14	W48	10	15.1		03	9	9	E	PALE	6875	
18	DSD	1733E	0020D	N21	E22	10	20.4		05	9	9	E	HOLL	6879	Flare Associated
18	DSD	1742E	2229D	N22	E23	10	20.5		05	9	9	E	PALE	6879	
18	ADF	1748E	0020D	S22	W05	10	18.3	2	12	9	9	E	HOLL		
18	SSB	1858		424	W11	10	17.9			0	0	E	PALE		449 W36 104 W51
18	DSD	2036E	2229D	S20	W24	10	17.0		02	8	8	E	PALE	6878	
18	DSD	2040E	2229D	S28	W55	10	14.6		03	9	9	E	PALE	6873	
18	AFS	2108E	0020D	S15	E09	10	19.6		02	9	9	E	HOLL		
18	APR	2125E	0020D	S37	W90	10	11.6	1		9	9	E	HOLL	6880	
18	ADF	2205E	0020D	S17	W57	10	14.6	1	13	9	9	E	HOLL	6873	
18	SSB	2330		424	W13	10	18.0			0	0	E	LEAR		
18	AFS	2331E	1008D	N22	E14	10	20.0		02	9	9	E	LEAR	6879	
18	AFS	2332E	1008D	S16	E08	10	19.6		02	9	9	E	LEAR	6884	
18	ADF	2333E	1008D	S17	W60	10	14.4	1	14	9	9	E	LEAR	6873	
18	ADF	2334E	1008D	N15	W45	10	15.6	1	08	9	9	E	LEAR	6875	
19	BSL	0618E	0825D	N20	E90	10	26.1	1				C	ABST		
19	BSL	0648E	0825D	S36	W90	10	12.0	1				C	ABST		
19	AFS	0901E	1408D	N13	W58	10	15.0		02	9	9	E	SVTO	6875	
19	SSB	0928		424	W19	10	17.9			0	0	E	SVTO		
19	DSD	1055E	1245D	N19	E11	10	20.3		02	9	9	E	RAMY	6879	
19	ADF	1125E	2126D	S18	W76	10	13.7	2	12	9	9	E	RAMY	6873	
19	AFS	1134E	2126D	N14	W57	10	15.2		02	9	9	E	RAMY	6875	
19	DSD	1400E	1740D	N36	W65	10	14.4		08	9	9	E	HOLL	6872	
19	AFS	1401E	0014D	N15	W54	10	15.5		02	9	9	E	HOLL	6875	
19	AFS	1402E	2240D	S19	W24	10	17.7		02	9	9	E	HOLL	6878	
19	SDF	1408E	0918D	S12	E62	10	24.2		08	0	0	E	SVTO		
19	APR	1425E	0014D	S24	W90	10	12.6	1		9	9	E	HOLL	6873	
19	APR	1426E	2250D	S36	W90	10	12.4	1		9	9	E	HOLL	6880	
19	AFS	1427E	0014D	S14	W02	10	19.4		02	9	9	E	HOLL	6884	
19	SSB	1600		425	W23	10	17.9			0	0	E	HOLL		101 W59
19	AFS	1605E	1934D	N23	E04	10	20.0		02	8	8	E	RAMY	6879	
19	SSB	1619		425	W23	10	17.9			0	0	E	RAMY		442 W40 103 W62
19	SSB	1745		424	W24	10	17.9			0	0	E	PALE		441 W41 104 W64
19	ADF	1745E	2253D	N13	W61	10	15.1		08	9	9	E	PALE	6875	
19	AFS	1745E	2253D	S13	W04	10	19.4		02	8	8	E	PALE	6884	
19	AFS	1812E	2126D	S17	W28	10	17.6		01	9	9	E	RAMY	6878	
19	AFS	1817E	2126D	S12	W05	10	19.4		02	9	9	E	RAMY	6884	
19	AFS	2322E	0955D	N16	W65	10	15.0		02	9	9	E	LEAR	6875	
19	AFS	2323E	0955D	N04	W44	10	16.7		01	9	9	E	LEAR	6881	
19	AFS	2324E	0955D	S13	W07	10	19.4		02	9	9	E	LEAR	6884	
19	AFS	2325E	0955D	N07	E57	10	24.2		02	9	9	E	LEAR		
19	ADF	2345E	0204D	S01	W01	10	19.9	1				C	VORO		
19	ADF	2345E	0204D	S26	W08	10	19.4	1				C	VORO		
20	APR	0058E	0205D	S28	W90	10	13.0	1				C	VORO		
20	DSD	0630E	1211D	N20	W70	10	14.9		13	8	7	E	SVTO	6875	
20	AFS	0639E	1211D	N05	W20	10	18.8		03	7	5	E	SVTO	6879	
20	APR	0653E	0704D	S16	E90	10	27.1	1				C	ABST		
20	ASR	0721E	0759D	N25	W79	10	14.2			6	5	E	SVTO	6873	
20	SSB	0732		425	W32	10	17.8			0	0	E	SVTO		
20	AFS	0816E	1211D	S18	W34	10	17.7		02	6	7	E	SVTO	6878	
20	AFS	0822E	1211D	S05	W49	10	16.7		02	7	5	E	SVTO	6881	
20	SDF	0911E	0439D	N18	W15	10	19.2		24	0	0	E	LEAR		
20	DSD	1056E	1158D	N21	W03	10	20.2		02	9	9	E	RAMY	6879	
20	DSD	1056E	1158D	N23	W07	10	19.9		02	9	9	E	RAMY	6879	
20	AFS	1056E	1625D	N22	W04	10	20.1		03	8	8	E	RAMY	6879	
20	AFS	1110E	1920D	N08	E49	10	24.1		03	9	9	E	RAMY		
20	DSD	1113E	1625D	S21	W13	10	19.5		03	9	7	E	RAMY		
20	AFS	1119E	1927D	N17	W72	10	15.0		02	7	7	E	RAMY	6875	
20	DSD	1120E	1211D	N08	E49	10	24.1		06	9	9	E	SVTO		
20	ASR	1124E	2037D	N21	E90	10	27.4			9	9	E	RAMY		
20	SDF	1211E	1001D	N10	W31	10	18.2		12	0	0	E	SVTO		
20	ADF	1217E	1625D	N29	W16	10	19.2	2	09	9	9	E	RAMY	6879	
20	AFS	1227E	2037D	S17	E54	10	24.6		02	6	7	E	RAMY		
20	AFS	1347E	2037D	N10	W18	10	19.2		02	9	9	E	RAMY		
20	SDF	1410E	1408D	N07	W36	10	17.9		14	0	0	E	HOLL		
20	SDF	1410E	1408D	S30	W37	10	17.7		08	0	0	E	HOLL		
20	SSB	1415		395	W06	10	20.0			0	0	E	HOLL		424 W35 460 W71

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
20	ADF	1420E	2224D	N13	W73	10	15.1	1	08	9	9	E	HOLL	6875	
20	AFS	1444E	2037D	S11	W19	10	19.2		02	9	9	E	RAMY	6884	
20	AFS	1534E	2037D	S07	W58	10	16.3		02	9	9	E	RAMY		
20	AFS	1616E	2037D	S21	W16	10	19.4		01	9	9	E	RAMY		
20	SSB	1636		104	W76	10	15.0			0	0	E	RAMY		
20	SSB	1636		397	W09	10	19.8			0	0	E	RAMY		426 W38 443 W54
20	APR	1705E	1927D	S22	W90	10	13.8	2		9	9	E	RAMY	6873	
20	APR	1859E	0035D	S22	W90	10	13.9			9	9	E	PALE	6873	
20	ADF	1905E	0035D	N11	W78	10	14.9	1	09	9	9	E	PALE	6875	
20	ADF	1905E	0035D	N21	W12	10	19.9		06	9	9	E	PALE	6879	
20	ADF	1905E	0035D	S20	W55	10	16.6	1	13	9	9	E	PALE	6883	
20	DSD	1912E	0035D	S13	W21	10	19.2		02	9	9	E	PALE	6884	
20	ADF	1912E	0035D	S15	E54	10	24.9		04	9	9	E	PALE		
20	DSD	1912E	0035D	S22	W15	10	19.6		02	9	9	E	PALE		
20	ASR	1930	2037D	S13	E90	10	27.6			9	9	E	RAMY		
20	ADF	2327E	0207D	S01	W14	10	19.9	1				C	VORO		
20	ADF	2327E	0207D	S03	W44	10	17.7	1				C	VORO		
21	ASR	0121E	0955D	S13	W90	10	14.3			9	9	E	LEAR		
21	AFS	0142E	0955D	S13	W24	10	19.3		03	9	9	E	LEAR	6884	
21	BSL	0616E	0744D	S09	E90	10	28.0	1				C	ABST		
21	BSL	0745E	0908D	N18	W90	10	14.5	1				C	ABST		
21	SDF	0842E	2340D	S16	W15	10	20.2		12	0	0	E	LEAR		
21	AFS	1012E	1142D	S16	W26	10	19.4		02	9	9	E	SVTO	6884	
21	AFS	1053E	1745D	S11	W29	10	19.3		02	9	9	E	RAMY	6884	
21	AFS	1053E	1745D	S13	W26	10	19.5		02	9	9	E	RAMY	6884	
21	APR	1103E	1513D	S11	E90	10	28.2	2		9	9	E	RAMY		
21	SSB	1106		397	W19	10	19.7			0	0	E	RAMY		425 W47 441 W63
21	SSB	1106		455	W77	10	14.8			0	0	E	RAMY		
21	SDF	1142E	1439D	S18	W15	10	20.3		11	0	0	E	SVTO		
21	ASR	1348E	2303D	S09	E90	10	28.3			9	9	E	HOLL		
21	SSB	1408		399	W23	10	19.4			0	0	E	HOLL		427 W51
21	ASR	1433E	2303D	S21	E90	10	28.5			9	9	E	HOLL		
21	ASR	1510E	1745D	S11	E90	10	28.4			9	9	E	RAMY		
21	AFS	1534E	1745D	S18	E41	10	24.8		02	9	9	E	RAMY	6889	
21	SSB	1740		429	W10	10	20.9			0	0	E	PALE		403 W31
21	AFS	1912E	2303D	S16	W30	10	19.5		01	9	9	E	HOLL	6884	
21	AFS	2210E	2303D	N09	W36	10	19.2		01	9	9	E	HOLL		
21	AFS	2302E	2303D	S17	E37	10	24.8		02	9	9	E	HOLL	6889	
21	ADF	2313E	0958D	N22	W23	10	20.2	1	06	9	9	E	LEAR	6879	
21	AFS	2315E	0958D	S12	W37	10	19.2		02	9	9	E	LEAR	6884	
21	AFS	2318E	0958D	S21	W61	10	17.3		02	7	7	E	LEAR	6873	
21	SSB	2350		378	W07	10	21.3			0	0	E	LEAR		
22	ASR	0445E	0622D	S10	E89	10	28.9			9	9	E	LEAR		
22	ASR	0620E	0958D	S23	E88	10	29.0			9	9	E	LEAR		
22	BSL	0622E	0742	S10	E79	10	28.2			9	9	E	LEAR		Flare Associated
22	AFS	0715E	0958D	S17	E32	10	24.7		03	9	9	E	LEAR	6889	
22	ASR	0742	0958D	S11	E89	10	29.0			9	9	E	LEAR		
22	BSL	0809E	0840D	S20	W90	10	15.4	1				C	ABST		
22	AFS	1329E	2054D	N23	W34	10	19.9		02	9	9	E	RAMY	6879	
22	AFS	1332E	2054D	S10	W46	10	19.1		02	9	9	E	RAMY	6884	
22	AFS	1332E	2054D	S15	W41	10	19.5		02	9	9	E	RAMY	6884	
22	AFS	1334E	2054D	S17	E29	10	24.8		02	9	9	E	RAMY	6889	
22	ADF	1335E	1537D	S11	E33	10	25.0	2	04	9	9	E	RAMY	6889	
22	ASR	1336E	2054D	S23	E83	10	29.0			9	9	E	RAMY	6892	
22	ADF	1337E	2054D	S10	E69	10	27.7	2	12	9	9	E	RAMY	6891	
22	SSB	1347		398	W35	10	19.3			0	0	E	RAMY		426 W63
22	SSB	1420		399	W36	10	19.2			0	0	E	HOLL		428 W65
22	AFS	1444E	2327D	S14	W45	10	19.2		02	9	9	E	HOLL	6884	
22	AFS	1456E	2327D	N08	E22	10	24.3		02	9	9	E	HOLL	6886	
22	AFS	1457E	2327D	S17	E29	10	24.8		02	9	9	E	HOLL	6889	
22	ASR	1740E	2110D	S24	E88	10	29.5			9	9	E	HOLL	6892	
22	ADF	2030E	0320D	S09	W51	10	19.0	1	03	9	9	E	PALE	6884	
22	DSD	2033E	0320D	N08	E16	10	24.0		02	9	9	E	PALE	6886	
22	ADF	2035E	0320D	N18	E60	10	27.4	1	04	9	9	E	PALE	6888	
22	AFS	2035E	0320D	S10	E71	10	28.2		02	9	9	E	PALE	6891	
22	ASR	2041E	0320D	N18	E90	10	29.7			8	8	E	PALE		
22	ADF	2041E	0320D	S05	E76	10	28.5	1	03	9	9	E	PALE	6891	
22	APR	2108E	2327D	S38	E90	10	30.1	2		7	7	E	HOLL		

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
22	SSB	2135		360	W01	10	22.8			0	0	E	PALE		400 W41
22	AFS	2309E	1006D	S14	W45	10	19.6		03	9	9	E	LEAR	6884	
22	AFS	2310E	1006D	N08	E15	10	24.1		03	9	9	E	LEAR	6886	
22	ADF	2311E	1006D	N18	E62	10	27.7	1	18	9	9	E	LEAR	6888	
22	ADF	2319E	0322D	N19	E42	10	26.2	1				C	VORO		
22	ADF	2319E	0322D	S01	W47	10	19.5	1				C	VORO		
23	DSD	0350E	1006D	S17	E22	10	24.8		04	9	9	E	LEAR	6889	
23	AFS	0350E	1006D	S18	E22	10	24.8		02	9	9	E	LEAR	6889	
23	BSL	0702E	0850D	N23	W90	10	16.3	1				C	ABST		
23	BSL	0702E	0850D	N42	W90	10	15.9	1				C	ABST		
23	BSL	0702E	0850D	S38	E90	10	30.6	1				C	ABST		
23	SSB	1230		360	W09	10	22.7			0	0	E	RAMY		
23	ADF	1238E	1632D	S15	E63	10	28.3	2	04	9	9	E	RAMY	6891	
23	SSB	1353		360	W10	10	22.7			0	0	E	HOLL		
23	AFS	1446E	2340D	N09	E06	10	24.1		02	9	9	E	HOLL	6886	
23	ASR	1446E	2340D	N17	E90	10	30.4			9	9	E	HOLL		
23	AFS	1446E	2340D	S19	E15	10	24.8		02	8	8	E	HOLL	6889	
23	DSD	1500E	2340D	S14	E65	10	28.5		02	9	9	E	HOLL	6891	
23	AFS	1500E	2340D	S21	E67	10	28.8		02	9	9	E	HOLL	6892	
23	AFS	1755E	0342D	N10	E09	10	24.4		03	9	9	E	PALE	6886	
23	AFS	1755E	0342D	S18	E07	10	24.3		02	8	8	E	PALE	6889	
23	ADF	1800E	0342D	S18	E68	10	28.9	1	08	9	9	E	PALE	6891	
23	ASR	1825E	0342D	N18	E90	10	30.6			9	9	E	PALE		
23	DSD	1825E	0342D	S11	E63	10	28.5		04	9	9	E	PALE	6891	
23	SSB	1832		361	W13	10	22.6			0	0	E	PALE		
23	AFS	2252E	1006D	N10	E01	10	24.0		03	9	9	E	LEAR	6886	
23	ASR	2255E	1006D	N18	E90	10	30.8			9	9	E	LEAR		
23	AFS	2259E	1006D	S20	E58	10	28.4		04	9	9	E	LEAR	6892	
24	ASR	0415E	0512D	S22	W90	10	17.3			9	9	E	LEAR		
24	AFS	0510E	1006D	S08	E48	10	27.8		02	9	9	E	LEAR	6891	
24	AFS	0511E	1006D	S13	W66	10	19.2		02	9	9	E	LEAR	6884	
24	ADF	0512E	1006D	S09	E53	10	28.2	1	05	9	9	E	LEAR	6891	
24	AFS	0708E	1557D	N08	W03	10	24.1		03	9	9	E	SVTO	6886	
24	AFS	0711E	1557D	S14	W65	10	19.4		02	7	7	E	SVTO	6884	
24	ADF	0720E	1536D	S12	E62	10	29.0	2	12	9	9	E	SVTO	6891	
24	ASR	0727E	1128D	N18	E84	10	30.7			9	9	E	SVTO		
24	AFS	0818E	1536D	S18	E01	10	24.4		02	7	9	E	SVTO	6889	
24	AFS	0833E	1536D	S09	E48	10	27.9		02	9	9	E	SVTO	6891	
24	AFS	0834E	1536D	S12	E54	10	28.4		03	9	9	E	SVTO	6891	
24	SDF	0920E	2220D	N09	E27	10	26.4		21	0	0	E	LEAR		
24	SDF	0920E	2220D	N24	W20	10	22.8		13	0	0	E	LEAR		
24	SSB	1253		360	W22	10	22.6			0	0	E	RAMY		
24	AFS	1254E	2103D	S13	E52	10	28.5		02	9	9	E	RAMY	6891	
24	AFS	1430E	2103D	N09	W07	10	24.1		02	9	9	E	RAMY	6886	
24	DSD	1435E	1815D	N18	E75	10	30.3		04	9	9	E	RAMY		
24	ADF	1445E	2103D	N17	E40	10	27.6	2	05	9	9	E	RAMY	6888	
24	DSD	1634E	2145D	S10	E46	10	28.1		02	9	9	E	HOLL	6891	
24	AFS	1634E	2145D	S19	E51	10	28.6		02	9	9	E	HOLL	6892	
24	AFS	1634E	2145D	S21	E55	10	28.9		02	9	9	E	HOLL	6892	
24	AFS	1639E	2145D	N10	W09	10	24.0		02	7	6	E	HOLL	6886	
24	AFS	1639E	2145D	S13	W70	10	19.4		02	9	9	E	HOLL	6884	
24	AFS	1639E	2145D	S17	E00	10	24.7		02	7	7	E	HOLL	6889	
24	AFS	1710E	0332D	N09	W09	10	24.0		03	9	9	E	PALE	6886	
24	AFS	1710E	0332D	S14	W72	10	19.3		05	9	9	E	PALE	6884	
24	AFS	1710E	0332D	S20	E54	10	28.8		03	9	9	E	PALE	6892	
24	ADF	1735E	0332D	N18	E40	10	27.8		07	9	9	E	PALE	6888	
24	AFS	1735E	2254D	N19	E74	10	30.4		02	9	9	E	PALE		
24	DSD	1824E	2035D	S13	W78	10	18.9		03	9	9	E	PALE	6884	
24	SSB	1935		360	W26	10	22.5			0	0	E	PALE		402 W69
24	AFS	2105E	0332D	N13	E42	10	28.0		02	9	9	E	PALE		
24	AFS	2254E	0332D	N17	E71	10	30.3		06	9	9	E	PALE	6893	
24	AFS	2325E	1009D	N12	W14	10	23.9		02	7	7	E	LEAR	6886	
24	AFS	2326E	1009D	N18	E69	10	30.2		03	9	9	E	LEAR	6893	
24	AFS	2327E	1009D	N12	E40	10	28.0		02	9	9	E	LEAR		
24	ADF	2328E	1009D	S08	E47	10	28.5	1	06	9	9	E	LEAR	6891	
24	ADF	2330E	1009D	S18	E54	10	29.1	1	10	9	9	E	LEAR	6892	
25	SSB	0837		319	W00	10	25.3			0	0	E	SVTO		

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
25	ASR	0858E	1527D	S13	W83	10	19.1			9	9	E	SVTO	6884	Bright Emission 1/3
25	AFS	0900E	1527D	N09	W18	10	24.0		03	9	9	E	SVTO	6886	
25	AFS	0904E	1527D	S12	E40	10	28.4		02	9	9	E	SVTO	6891	
25	ADF	1102	2058D	S09	E32	10	27.9	2	04	9	9	E	RAMY	6891	Flare Associated
25	AFS	1113E	1703D	N19	E30	10	27.7		02	7	7	E	RAMY	6888	
25	AFS	1115E	2058D	N16	E64	10	30.3		02	9	9	E	RAMY	6893	
25	ASR	1122E	1527D	S14	W85	10	19.0			7	6	E	SVTO	6884	
25	ASR	1236E	2058D	S13	W89	10	18.8			9	9	E	RAMY	6884	
25	DSD	1509E	1527D	S09	E38	10	28.5		02	9	9	E	SVTO	6891	
25	AFS	1655E	2058D	S21	E40	10	28.8		02	9	9	E	RAMY	6892	
25	AFS	1658E	2058D	S08	E29	10	27.9		02	9	9	E	RAMY	6891	
25	SSB	1707		360	W38	10	22.4			0	0	E	RAMY		
25	SSB	1725		360	W38	10	22.4			0	0	E	PALE		
25	AFS	1725E	0304D	N18	E60	10	30.3		02	9	9	E	PALE	6893	
25	AFS	1725E	0304D	S20	E39	10	28.7		03	9	9	E	PALE	6892	
25	ASR	1725E	1812D	S12	W90	10	18.9			8	8	E	PALE	6884	
25	ASR	1823	0304D	S12	W88	10	19.1			9	9	E	PALE	6884	
25	ADF	2010E	0304D	N36	E29	10	28.2	1	21	9	9	E	PALE		
25	ADF	2018E	0011D	N05	E37	10	28.6	1	05	9	9	E	HOLL	6891	
25	AFS	2020E	0011D	N20	E24	10	27.7		02	7	8	E	HOLL	6888	
25	AFS	2021E	0011D	N17	E60	10	30.4		02	9	9	E	HOLL	6893	
25	AFS	2023E	0011D	N12	E29	10	28.0		01	5	7	E	HOLL		
25	DSD	2040E	0304D	S09	E35	10	28.5		03	9	9	E	PALE	6891	
25	SDF	2235E	1429D	N14	E02	10	26.1		08	0	0	E	HOLL		
25	SSB	2245		321	W02	10	25.8			0	0	E	HOLL		361 W42
25	AFS	2323E	0943D	N19	E20	10	27.5		03	7	9	E	LEAR	6888	
26	ADF	0139E	0201D	N24	W55	10	21.8	1				C	VORO		
26	SSB	0617		362	W47	10	22.1			0	0	E	SVTO		
26	SDF	0617E	1500D	N13	W04	10	26.0		10	0	0	E	SVTO		
26	ASR	0620E	1154D	N19	W90	10	19.4			3	6	E	SVTO	6879	
26	ASR	0623E	1045D	S14	W90	10	19.5			9	9	E	SVTO	6884	
26	ASR	0812E	0943D	N20	W90	10	19.4			9	9	E	LEAR	6879	
26	ASR	0812E	0943D	S14	W90	10	19.5			9	9	E	LEAR	6884	
26	AFS	1109E	2035D	S22	E30	10	28.8		02	9	9	E	RAMY	6892	
26	AFS	1112E	2035D	S12	E23	10	28.2		02	8	8	E	RAMY	6891	
26	ADF	1113E	1412D	S03	E70	10	31.7	1	06	9	9	E	RAMY		
26	ADF	1122E	1522D	N16	E58	10	30.9	2	11	9	9	E	RAMY	6893	
26	AFS	1122E	1654D	N14	E55	10	30.6		03	9	9	E	RAMY	6893	
26	AFS	1122E	2035D	N16	E50	10	30.3		02	9	9	E	RAMY	6893	
26	AFS	1126E	2035D	N24	W22	10	24.8		02	7	7	E	RAMY	6895	
26	DSD	1128E	1710D	N08	W34	10	23.9		02	9	9	E	RAMY	6886	
26	ADF	1137E	2222D	S22	W21	10	24.9	1	07	9	9	E	PALE	6889	
26	SSB	1429		360	W50	10	22.2			0	0	E	HOLL		
26	AFS	1545E	2358D	N09	W34	10	24.1		02	9	9	E	HOLL	6886	
26	AFS	1547E	2358D	N16	E52	10	30.6		03	9	9	E	HOLL	6893	
26	AFS	1547E	2358D	N19	E53	10	30.7		02	9	9	E	HOLL	6893	
26	AFS	1549E	2358D	N23	W25	10	24.7		02	9	9	E	HOLL		
26	AFS	1550E	2035D	S18	W01	10	26.6		02	6	5	E	RAMY		
26	AFS	1616E	2358D	S18	W01	10	26.6		02	9	9	E	HOLL		
26	SSB	1701		361	W52	10	22.1			0	0	E	RAMY		399 W90
26	AFS	1705E	2035D	N10	W36	10	24.0		02	9	9	E	RAMY	6886	
26	ADF	1850E	2358D	S16	E13	10	27.8	1	13	9	9	E	HOLL	6891	Flare Associated
26	AFS	1905E	2222D	N12	W38	10	23.9		02	8	8	E	PALE	6886	
26	ADF	1905E	2222D	N15	W35	10	24.1	1	03	9	9	E	PALE	6886	
26	AFS	1907E	2222D	N24	E16	10	28.0		02	9	9	E	PALE	6888	
26	ADF	1907E	2222D	S13	E19	10	28.2	1	04	9	9	E	PALE	6891	
26	ADF	1909E	2222D	N18	E47	10	30.4	1	04	9	9	E	PALE	6893	
26	AFS	1909E	2222D	N22	E41	10	29.9		03	9	9	E	PALE	6893	
26	DSD	1909E	2222D	S13	E24	10	28.6		02	9	9	E	PALE	6891	
26	ADF	1909E	2222D	S24	E31	10	29.2	1	04	9	9	E	PALE	6892	
26	LPS	2103E	2334D	S12	E19	10	28.3			9	9	E	PALE	6891	Flare Associated
26	AFS	2245E	1005D	N19	E45	10	30.4		04	6	6	E	LEAR	6893	
26	AFS	2245E	1005D	N24	W30	10	24.6		03	5	4	E	LEAR	6895	
26	AFS	2325E	1005D	N12	E14	10	28.0		02	5	5	E	LEAR	6894	
27	APR	0048E	0250D	N01	W90	10	20.3	1				C	VORO		
27	DSD	0554E	0633D	S17	E18	10	28.6		14	9	9	E	SVTO	6891	Flare Associated
27	AFS	0730E	1535D	N09	W45	10	23.9		02	7	6	E	SVTO	6886	
27	AFS	0730E	1535D	N17	E43	10	30.6		03	9	9	E	SVTO	6893	

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
27	AFS	0730E	1535D	N24	W35	10	24.6		01	9	9	E	SVTO		
27	ADF	0800E	1533D	S23	E26	10	29.3	1	07	9	9	E	SVTO	6892	
27	AFS	0803E	1533D	S13	E28	10	29.4		01	9	9	E	SVTO	6891	
27	AFS	0812E	1533D	N09	W31	10	25.0		03	9	9	E	SVTO	6886	
27	AFS	0818E	1533D	N23	W22	10	25.6		02	9	9	E	SVTO		
27	ASR	0855E	1535D	S06	E90	11	3.1			9	9	E	SVTO		
27	SSB	0934		362	W63	10	21.8			0	0	E	SVTO		
27	SSB	1109		357	W59	10	22.3			0	0	E	RAMY		
27	SDF	1405E	1418D	N29	W18	10	26.2		19	0	0	E	HOLL		
27	ADF	1412E	2104D	S13	E12	10	28.5	1	05	9	9	E	HOLL	6891	
27	SSB	1450		361	W64	10	22.0			0	0	E	HOLL		
27	ADF	2328E	1014D	S23	E09	10	28.7	1	04	9	9	E	LEAR	6892	
28	APR	0055E	0400D	N18	E90	11	3.9	1				C	VORO		
28	ADF	0056E	0358D	N28	E12	10	29.0	1				C	VORO		
28	SSB	1418		351	W67	10	22.9			0	0	E	HOLL		
28	DSD	1508E	2302D	N18	E25	10	30.5		03	9	9	E	HOLL	6893	
28	ADF	1508E	2302D	S08	E01	10	28.7	1	11	9	9	E	HOLL	6891	
28	AFS	1515E	2302D	S13	E45	11	1.0		02	9	9	E	HOLL		
28	AFS	1520E	2302D	S07	W21	10	27.1		02	9	9	E	HOLL		
28	ASR	1600E	2036D	S18	E90	11	4.5			9	9	E	HOLL		
28	DSD	1724E	0240D	S17	E05	10	29.1		03	9	9	E	PALE	6892	
28	DSD	1724E	0240D	S17	W04	10	28.4		03	9	9	E	PALE	6892	
28	DSD	1724E	0318D	S11	W01	10	28.6		04	9	9	E	PALE	6891	
28	DSD	1740E	0318D	N12	E20	10	30.2		06	9	9	E	PALE	6893	
28	DSD	1802E	0318D	S09	E71	11	3.1		06	9	9	E	PALE		
28	AFS	1802E	0318D	S12	E44	11	1.1		02	9	9	E	PALE		
28	ADF	1802E	0318D	S20	W15	10	27.6	1	07	9	9	E	PALE	6888	
28	AFS	1856E	2302D	N15	E24	10	30.6		04	9	9	E	HOLL	6893	
28	AFS	2306E	1005D	N16	E18	10	30.3		03	9	9	E	LEAR	6893	
28	AFS	2307E	1005D	S13	E41	11	1.0		02	9	9	E	LEAR	6899	
28	AFS	2308E	1005D	S08	E67	11	3.0		02	9	9	E	LEAR		
28	ADF	2309E	1005D	S18	E02	10	29.1	1	13	9	9	E	LEAR	6892	
28	APR	2325E	0300D	N10	W90	10	22.2	1				C	VORO		
28	APR	2325E	0300D	N18	E90	11	4.8	1				C	VORO		
28	ADF	2326E	0258D	N32	W28	10	26.7	1				C	VORO		
29	AFS	0240E	0318D	S08	E66	11	3.0		03	9	9	E	PALE		
29	DSD	0825E	1005D	S15	E09	10	30.0		03	9	9	E	LEAR		
29	AFS	0825E	1005D	S15	E10	10	30.1		03	9	9	E	LEAR		
29	AFS	1040E	1353D	S14	E09	10	30.1		02	9	9	E	SVTO		
29	AFS	1115E	1353D	S08	E60	11	3.0		02	8	9	E	SVTO		
29	SSB	1509		285	W15	10	28.2			0	0	E	HOLL		
29	ADF	1533E	2013D	S17	W08	10	29.0	1	12	9	9	E	RAMY	6892	
29	SDF	1900	2053D	S09	W25	10	27.9	3	13	9	9	E	HOLL	6891	Flare Associated
29	AFS	1955E	0025D	N16	E00	10	29.8		03	9	9	E	PALE	6893	
29	AFS	1955E	0243D	N18	E05	10	30.2		02	9	9	E	PALE	6893	
29	AFS	1955E	0243D	S09	E57	11	3.1		03	9	9	E	PALE	6900	
29	SSB	2155		289	W23	10	27.8			0	0	E	PALE		326 W60
29	AFS	2155E	0243D	N08	E46	11	2.4		02	9	9	E	PALE		
29	ADF	2155E	0243D	S08	W20	10	28.4	1	10	9	9	E	PALE	6891	
29	AFS	2155E	0243D	S14	E03	10	30.1		03	9	9	E	PALE	6901	
30	DSD	0022E	0243D	N16	W03	10	29.8		03	9	9	E	PALE	6893	
30	AFS	0250E	1015D	N17	E02	10	30.3		02	7	7	E	LEAR	6893	
30	DSD	0535E	1015D	S14	W33	10	27.7		05	9	9	E	LEAR	6891	Flare Associated
30	DSD	0536E	0910D	N16	W06	10	29.8		03	9	9	E	LEAR	6893	Flare Associated
30	AFS	0537E	1015D	S07	W44	10	26.9		02	9	9	E	LEAR	6898	
30	AFS	0538E	1015D	S12	E23	11	1.0		02	9	9	E	LEAR	6899	
30	AFS	0539E	1015D	S16	W01	10	30.1		02	9	9	E	LEAR	6901	
30	AFS	0540E	1015D	N09	E39	11	2.2		02	9	9	E	LEAR	6902	
30	ADF	0544E	1015D	S07	W21	10	28.7	1	10	9	9	E	LEAR	6891	
30	SDF	0938E	2230D	N04	E12	10	31.3		06	0	0	E	LEAR		
30	SDF	1005E	2214D	S15	E36	11	2.1		12	0	0	E	LEAR		
30	ADF	1218E	2142D	S12	W36	10	27.8	2	04	9	9	E	RAMY	6891	
30	SSB	1349		276	W18	10	28.9			0	0	E	HOLL		
30	ADF	1400E	2247D	S15	W31	10	28.2	1	11	9	9	E	HOLL	6891	
30	ADF	1530E	1700D	S35	E00	10	30.6		18	0	0	E	HOLL		
30	ADF	1538E	1910D	S17	E20	11	1.2	1	07	9	9	E	HOLL	6899	
30	AFS	1700E	0225D	N10	E34	11	2.3		02	9	9	E	PALE	6902	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
30	AFS	1700E	0225D	S13	E18	11	1.1		02	9	9	E	PALE	6899	
30	AFS	1700E	0225D	S14	W08	10	30.1		02	9	9	E	PALE	6901	
30	AFS	1705E	0225D	N16	W08	10	30.1		03	9	9	E	PALE	6893	
30	DSD	1705E	0225D	S08	W42	10	27.6		03	9	9	E	PALE	6898	
30	AFS	1705E	0225D	S09	E44	11	3.0		03	9	9	E	PALE	6900	
30	ADF	1705E	0225D	S22	W33	10	28.2	1	07	9	9	E	PALE	6892	
30	AFS	2304E	1011D	N09	E30	11	2.2		02	9	9	E	LEAR	6902	
30	AFS	2305E	1011D	S07	E38	11	2.8		02	9	9	E	LEAR	6900	
30	DSD	2306E	1011D	S10	E12	10	31.9		02	9	9	E	LEAR	6899	
30	AFS	2306E	1011D	S12	E13	10	31.9		03	9	9	E	LEAR	6899	
30	AFS	2307E	1011D	S07	W55	10	26.8		02	9	9	E	LEAR	6898	
30	ADF	2308E	1011D	S17	W25	10	29.1	1	13	9	9	E	LEAR	6892	
30	APR	2315E	0245D	N01	W90	10	24.2	1				C	VORO		
30	APR	2315E	0245D	S30	E90	11	7.0	1				C	VORO		
30	ADF	2345E	0243D	N35	W40	10	27.8	1				C	VORO		
31	DSD	0220E	0225D	S11	W13	10	30.1		03	9	9	E	PALE	6901	
31	ADF	1108E	1926D	S06	W39	10	28.5	1	08	9	9	E	RAMY	6891	
31	ADF	1123E	1623D	S08	E31	11	2.8	2	08	9	9	E	RAMY	6900	
31	AFS	1552E	0004D	N10	E21	11	2.2		02	9	9	E	HOLL	6902	
31	AFS	1620E	0004D	S06	W62	10	27.0		02	8	8	E	HOLL	6898	
31	AFS	1622E	0004D	S15	W22	10	30.0		01	8	8	E	HOLL	6901	
31	SSB	1631		246	W03	10	31.4			0	0	E	RAMY		
31	ADF	1642E	0004D	S19	W29	10	29.5	1	05	9	9	E	HOLL	6892	Flare Associated
31	SSB	1700		313	W70	10	26.4			0	0	E	HOLL		
31	ASR	1742E	1840D	S18	W90	10	24.9			9	9	E	PALE	6889	
31	ASR	1746E	2108D	N22	W90	10	24.8			9	9	E	PALE	6895	
31	AFS	1757E	0224D	N17	W18	10	30.4		04	9	9	E	PALE	6893	
31	DSD	1757E	0224D	S06	W63	10	27.0		03	9	9	E	PALE	6898	
31	DSD	1757E	0224D	S09	W48	10	28.1		03	9	9	E	PALE	6891	
31	DSD	1757E	0224D	S17	W36	10	29.0		03	9	9	E	PALE	6892	
31	DSD	1808E	0224D	N05	W72	10	26.4		02	9	9	E	PALE		
31	AFS	1808E	0224D	N10	E20	11	2.2		05	9	9	E	PALE	6902	
31	DSD	1808E	0224D	S06	E30	11	3.0		04	9	9	E	PALE	6900	
31	AFS	1951E	0004D	S09	E28	11	2.9		03	9	9	E	HOLL	6900	
31	AFS	2125E	0004D	N14	W20	10	30.4		03	9	9	E	HOLL	6893	
31	ADF	2130E	2345D	S06	W47	10	28.4	1	07	9	9	E	HOLL	6891	
31	ADF	2240E	0000D	N17	E55	11	5.1	1				C	VORO		
31	ADF	2240E	0000D	N36	W55	10	27.5	1				C	VORO		
31	AFS	2331E	1005D	S08	E25	11	2.8		02	9	9	E	LEAR	6900	
31	AFS	2332E	1005D	N08	E14	11	2.0		02	9	9	E	LEAR	6902	
31	ADF	2333E	1005D	S06	W45	10	28.6	1	14	9	9	E	LEAR	6891	

ADF = Active Dark Filament
AFS = Arch Filament System
APR = Active Prominence
ASR = Active Surge Region
BSD = Bright Surge on Disk
BSL = Bright Surge on Limb
CAP = CAP Prominence (Tandberg-Hanssen)
CRN = Coronal Rain
DSD = Dark Surge on Disk
EPL = Eruptive Prominence on Limb
LPS = Loops
MDP = Mound Prominence
SDF = Sudden Disappearing Filament
SPY = Spray
SSB = Solar Sector Boundary

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

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

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

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

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

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